

Catalogue

May 2025 edition



ABOUT US

Our company designs, produces and sales Hydraulic components. We are a Bosch Rexroth Oil Control distributor.

Business starts in 1982 by the purchase of representations for Piedmont area of some companies concerning hydraulic sector (already Oil Control and Salami). This activity supports the development of a close technical relationship with the main enterprises of the construction machinery field, mobile equipment and industrial machines using hydraulic systems.

Hydrover's turns directly to the market and puts at the disposal of our guests a developed experience and the flexibility typical of a little business. These skills allow us during the time to tie commercial and technical relationship with many business located in our territory and also abroad.

Hydrover, your Hydraulic Partner.

HYDROVER S.r.L.

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SALES, DELIVERY AND WARRANTY TERMS

SALES AND DELIVERY TERMS

Hydrover distributes its valves through its sales network in compliance with the delivery terms (contract) shown in the specific documents (offers, order, confirmations, invoices), and those conditions shall be applicable for all what not specified here.

ORDERS

All orders shall be in written form and shall show the following information:

- · date and place where the order is issued;
- · full name and address of the purchasing company;
- signature of a legal representative, with indication of his/her qualification;
- reference of the suppliers offer (when applicable);
- complete ordering code and eventual description of the valves ordered;
- · number of pieces;
- delivery time requested (eventual)
- carrier (eventual)

The order will be considered valid at the Hydrover delivery terms.

The delivery terms requested or shown, and eventually notified in writing, can be considered essential only in case of specific signed agreement between both parties, supplier and buyer.

WARRANTY

The Hydrover limited warranty lasts for a period of one year starting from the delivery date of the valve. If the buyer deems that one or more products are faulty due to improper manufacturing, he undertakes to notify immediately the presence of these faults to the supplier, by means of detailed written report, so that Hydrover may verify, through an expert of its own trust, whether the complained faults are really present. Once the Hydrover expert has verified that the notified faults are effectively present and that they are due to manufacturing defects, Hydrover undertakes to repair or to replace the valve within an adeguate term and the buyer undertakes not to ask for contract cancellation before the adeguate term to repair or replace the valve has expired. Written permission for warranty returns must be obtained from Hydrover prior to shipment. All warranty returns shall be shipped freight prepaid and shall include a detailed description of the malfunction and of the working conditions. The warranty does not cover products which have been contaminated, used improperly or tampered without control and approval of Hydrover. Similarly the warranty is not valid if changes are made to the circuits or systems which could negatively affect the valve function. If the valve supplied must be assembled in systems which could cause damages to third parties exceeding by for the price of the valve, the buyer undertakes to adapt all safety measures in order to avoid any damage, since he recognizes that mass production of the valves at market prices entails the risk, even if limited, that occasional faulty valves may result. O-rings are excluded from the warranty.

USER'S INTRUCTIONS

The buyer shall not use the vave for purposes different from what pointed out in the relevant drawings or in the Hydrover catalogues. If the buyer wants to use the valves for other purposes he shall ask specific approval from Hydrover. Specifically, the buyer are not authorised to use Hydrover valves for the following applications:

- any passenger or goods carrying road vehicle or equipment subject to Highway Safety Standards and Directives, such as (without limitation) steering, or brake systems
- · aircraft or space vehicles
- · ordnance equipment
- medical and health products, including life support equipment or vehicles
- systems to be used under any Nuclear Regulatory Act or Regulation
- systems for use in explosive or otherwise hazardous environments

STATEMENT

The valves and the multifunction integrated blocks described in this catalogue can be employed in systems or machines falling into the specifications of EEC Directive 2006/42/CE (Machine Directive) and later amendments. The valves and the blocks shall not be operated before the complete machine is verified to be in compliance with the requirements of the above mentioned Directive.

JURISDICTION

In case of a dispute where Hydrover is summoned before court, the Court of law in Cuneo (Italy) is exclusively competent.



TECHNICAL DATA

VALVES INSTALLATION

It is reccomended to follow these steps:

- inspect the sub-plate to ensure that it is in good conditions and no external contaminant is present
- check that O-Rings are intact and correctly positioned
- · don't tighten screws or connectors more than the maximum torque specified in the catalogue

INLET VOLTAGE

To obtain correct operation and long life of coils it is necessary that the operating voltage fluctuations do not exceed +5% -10 % of nominal voltage.

TEMPERATURE RANGES

- Ambient Temperature from –20°C to +50°C
- Oil Temperature from -20°C to +80°C

SEALS

O-RINGS: Acryl – Nitrile Butadiene Rubber NBR (BUNA-N) standard for temperature between –20°C and +100°C. Fluorocarbo FPM (Viton) and other compounds are available on request.

STOCKING OF NEW VALVES

Encapsulated by a protective wrapping, the valves shall not be exposed to direct sun light nor to source of heat or ozone (like electric motors running) and kept in a dry place at a temperature between –20°C and +50°C.

WORKING DUTY

The working duty ED of a coil is the ratio between energized time ti and full cycle time tc where tc=ti+tr and tr = de-energized time.

 $ED = (t_i / t_o) \cdot 100 \%$

All coils are rated for ED = 100 % provided that temperature limit of their insulation class is not exceeded.

PROTECTION EN 60529

On request coils with IP65/IP69K protection.

HYDRAULIC FLUID

It must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example:

- MINERAL OIL FLUIDS HL (DIN 51524 part1)
- MINERAL OIL FLUIDS HLP (DIN 51524 part2)

For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult LC Oleodinamica.

Viscosity class: with ISO-DIN, the viscosity class is expressed by ISO-VG (no.); the no. Indicates the average kinematic viscosity at 40°C in mm2/s or centiStoks (cSt).

CONTAMINATION – FILTRATION

- GENERAL INFORMATION: Manufacturers and users of hydraulic equipment admit that contamination is the most likely cause of malfunction or failure in hydraulic systems and reduces security and reliability of components and systems. Metal particles flowing throughout the circuit scratch moving surfaces so that contamination level, if not controlled, increases very rapidly. It is strongly recomended to mantain contamination level at least at nominal values shown below, choosing adequate filtration products.
- FILTRATION RATIO BETAx: It's the ratio between the number of particles before and after the filter with diameter larger than X micron.
- ABSOLUTE FILTRATION RATIO ISO 4572: It's the diameter X of the largest particle with BETAx≥ 75.
- CONTAMINATION CLASS ISO 4406: it's expressed by 3 scale numbers representing respectively: the number of particles equal to or larger than 4 micron (c); the number of particles equal to or larger than 6 micron (c); the number of particles equal to or larger than 14 micron(c), contained in 1 ml of fluid.
- CONTAMINATION CLASS NAS 1638: It's expressed by one scale numbers representing the number of particles of different size ranges contained in 100 ml of fluid.



HYDROVER PRODUCT CODIFICATION

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Hydrover product H		
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Closing p	lates	-
H4114	Closing plate without ports	442
H4123	Closing plate with T port without OR	444
H4102	Closing plate with T port and OR	446
H4116	Closing plate with P and T port	448
H4105	Closing plate / relief valve / 30 lpm	450
H4117	Closing plate / relief valve / 40 lpm	452
HK	Assembling kit	454
42 SERIE	S - Load sensing plates for Bosch Rexroth ED bankable valves	•
H4201	Intermediate load sensing inlet ED plate / dual side P-T ports 1" G	456
H4207	Intermediate element with pressure reducing valve on P	458
H4206	Intermediate load sensing inlet ED plate 3 way compensated / variable delta P / relief valve bypass valve / P-T ports 3/4" G	460
H4221	Closing plate without ports	462
H4202	Closing plate with LS ports and LS leakage	464
48 SERIE	S - Flangeable elements for Bosch Rexroth EDC bankable valves	
H4803	EDC flangeable element with counterbalance valve on B / 30 lpm	468
H4801	EDC flangeable element with counterbalance valve on B / 60 lpm	470
H4807	EDC flangeable element with counterbalance valve on A and B / 30 lpm	472
H4802	EDC flangeable element with poppet type solenoid operated directional valves between A and A1 B and B1	474



Code	Description	Page
49 SERIE	S - Flangeable elements for Bosch Rexroth ED bankable valves	
H4902	ED flangeable valve with relief valve on A or B	478
H4908	ED flangeable element with relief valve on A and B	480
H4901	ED flangeable valve with unidirectional flow restrictors on A / B / A and B	482
H4903	ED flangeable element with cross piloted check valves on A and B	484
H4904	ED flangeable element with poppet type solenoid operated directional valves between A1 and A / B1 and B	486
51 SERIE	S - Modular Cetop 5 subplates for parallel circuits	
H51-G1	Mounted group sample H51-G1	490
H5101	Inlet subplate with 1 station / extensible / relief and bypass valve / side A-B ports crossing P-T ports	492
H5102	Intermediate / closing subplate with 1 station / side A-B ports	494
52 SERIE	S - Load sensing modular Cetop 5 subplates for parallel circuits	
H52-G1	Mounted group sample H52-G1	498
H5205	Inlet plate for variable displacement pump	500
H5204	Inlet plate / relief valve / 3 way compensated / for fixed displacement pump	502
H5203	Intermediate subplate / flow restrictor on P / 1 Cetop 5 station / side A-B ports	504
H5213	Intermediate subplate 2 way compensated / 1 Cetop 5 station / side A-B ports	506
H5202	Closing plate / side 3/4" G T port	508
H5209	Closing plate / front 3/4" G T and LS 1/4" G ports	510
H5207	Closing plate / 3/4" G P port / 1" G T port	512
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56 SERIE	S - Cetop 5 subplates	
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H5603	Cetop 5 single station subplate / relief valve / back P-T ports / side A-B ports	518
H5101	Inlet subplate with 1 station / extensible / relief and bypass valve / side A-B ports crossing P-T ports	492
H5609	Cetop 5 single station subplate / r excludable regenerative / relief valve / back P-T ports side A-B ports	520
Multi stat	ion	
H5601	Cetop 5 subplate from 1 to 6 stations / 3/4" G crossing P-T ports / 1/2" G side A-B ports	522
H5602	Cetop 5 subplate from 2 to 6 stations / 3/4" G crossing P port / 1" G crossing T port / 3/4" G side A-B ports	524
H5604	Cetop 5 subplate from 1 to 5 stations / bypass and relief valves / crossing P 3/4"G and T 1"G ports side A-B ports	526
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H5608	Cetop 5 station blanking plate	528
H5606	Reduction plate from Cetop 5 to Cetop 3	530



Code	Description	Page
59 SERIE	S - Cetop 5 modular valves	_
Relief		
H5913	Cetop 5 modular relief valve on P	534
H5902	Cetop 5 modular relief valve on A	536
H5903	Cetop 5 modular relief valve on B	538
H5901	Cetop 5 modular relief valve on A e B	540
H5921	Cetop 5 modular relief valve on A electrically enabled	542
Pressure	reducing	
H5915	Cetop 5 modular pressure reducing valve on P	544
Counterb	palance	
H5916	Cetop 5 modular counterbalance valve on A / 50 lpm	546
H5917	Cetop 5 modular counterbalance valve on A / 100 lpm	548
H5907	Cetop 5 modular counterbalance valve on A / 130 lpm	550
H5918	Cetop 5 modular counterbalance valve on B / 50 lpm	552
H5919	Cetop 5 modular counterbalance valve on B / 100 lpm	554
H5906	Cetop 5 modular counterbalance valve on B / 130 lpm	556
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Regenera	ntive	
H5905	Cetop 5 modular valve with permanent or switchable regenerative control	560
Poppet ty	pe solenoid operated directional valves	
H5924	Cetop 5 modular poppet type solenoid operated directional valve between P1 and P	562
H5909	Cetop 5 modular poppet type solenoid operated directional valve between A1 and A	564
H5910	Cetop 5 modular poppet type solenoid operated directional valve between B1 e B	566
H5911	Cetop 5 modular poppet type solenoid operated directional valves between A1 and A / B1 and B	568
Bypass a	nd relief	
H5904	Cetop 5 modular relief and bypass valve	570
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H5908	Cetop 5 modular valve with 3 way compensated flow regulation on P and fast slow speed	572
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H5923	Cetop 5 modular manifold with side additional A-B ports 1/4"G	574
61 SERIE	S - Electronic controls	
H6101	Single proportional control / octal	578
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97 SERIE	S - Multifunctional integrated circuits	
H97001	Integrated circuit with two sequence circuits 3/8"G	586
H97063	Integrated circuit with two sequence circuits 1/2"G	588
H97039	DN10 dual pump unloading subplate	590
H97009	Integrated circuit DN16 for splitting with switchable regenerative control for double pump	592
H97005	Integrated circuit DN25 for splitting with switchable regenerative control for triple pump	596
H97007	Integrated circuit with regenerative control / 40 lpm	598
H97019	Integrated circuit with regenerative control / 80 lpm	600
H97017	Integrated circuit for rotation with calibratable braking pressure / 50 lpm	602
H97049	Integrated circuit for rotation with calibratable braking pressure / 70 lpm	604
H97133	Management block for simultaneous feeds with a variable displacement pump 1/2" G	606
H97101	Management block for simultaneous feeds with a variable displacement pump 3/4" G	614
H97121	Integrated circuit for single acting cylinder with 2 way compensated flow regulator and relief valve 3/8" G	620



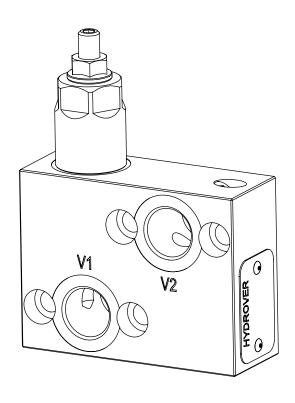
Code	Description	Page
Bosch Rexroth compon	ents	
0T.U3.01.00-Y-Z	Bosch Rexroth check valve VUB1	624
0T.U6.02.00-99-Z	Bosch Rexroth check valve VUM1.060	626
04.11.49-X-56-Z	Bosch Rexroth relief valve VSBN-08A	628
04.11.18-X-99-Z	Bosch Rexroth relief valve VS-30	630
0T.M1.02-X-99-Z	Bosch Rexroth relief valve VMD 1.025	632
0T.M1.03-X-99-Z	Bosch Rexroth relief valve VMD 1.040	633
0T.M1.04-X-99-Z	Bosch Rexroth relief valve VMD 1.070	634
04.11.05-X-99-Z	Valvola di massima pressione Bosch Rexroth VS-80	635
04.12.08-X-85-Z	Bosch Rexroth relief valve VSPN-10A	637
04.12.04-X-99-Z	Bosch Rexroth relief valve VSP-150	639
VMR2.240.NG.000	Bosch Rexroth relief valve and anti-cavitaion VMR2-22-FC	640
04.12.11-X-27-Z	Bosch Rexroth relief valve VSPN-16A	642
04.11.27-X-99-Z	Bosch Rexroth sequence valve VS-30-CC	644
04.75.21-X-56-Z	Priority unloading valve VMSN-08A	646
04.95.04-X-85-Z	Bosch Rexroth reducing valve VRPR-10A	648
04.93.07-X-85-Z	Bosch Rexroth reducing valve VRPX-10A	650
04.52.20-X-56-Z	Bosch Rexroth counterbalance valve VBSN-08AA	652
04.52.31-X-85-Z	Bosch Rexroth counterbalance valve VBSN-10A	654
04.52.28-X-57-Z	Bosch Rexroth counterbalance valve VBSN-12A	656
04.52.04-X-99-Z	Bosch Rexroth counterbalance valve VBSO-SEC-30	658
04.52.11.91.99.35.000	Valvola di bilanciamento Bosch Rexroth VBSO-SEC-33	659
OD.21.01-X-56	Bosch Rexroth bidirectional flow restrictor ST-C-06	660
OD.21.01-X-04	Bosch Rexroth bidirectional flow restrictor ST-C-09	662
OD.21.01-X-36	Bosch Rexroth bidirectional flow restrictor ST-C-10	663
GSU1	Bosch Rexroth unidirectional flow restrictor GSU1	665
04.01.03-X-56.00	Bosch Rexroth unidirectional flow restrictor ST-VU-08A	667
0T.F1.01.00-Y-Z	Bosch Rexroth 2 way compensated flow regulator SFC1	669
04.02.02-X-85-Z	Bosch Rexroth 2 way compensated flow regulator VRFB-10A	671
04.04.02.40.85.40	Bosch Rexroth 3 way compensated flow regulator VRFD-10A-M-40	673
04.84.09.00.85-Z-00	Bosch Rexroth logic element VRLA-10A-S	675
04.84.09.00.57-Z-00	Bosch Rexroth logic element VRLA-12A-S	677
OD.15-X-18-Y-Z	Bosch Rexroth solenoid valve normally closed OD.15-X-18-Y-Z	679
OD.15-X-18-Y-Z-00	Bosch Rexroth solenoid valve normally open OD.15-X-18-Y-Z-00	683
OD.15-X-17-Y-Z	Bosch Rexroth solenoid valve normally closed OD.15-X-17-Y-Z	687
OD.15-X-17-Y-Z-00	Bosch Rexroth solenoid valve normally open OD.15-X-17-Y-Z-00	691
OD.15-X-36-Y-Z	Bosch Rexroth solenoid valve normally closed OD.15-X-36-Y-Z	695
OD.15-X-36-Y-Z-00	Bosch Rexroth solenoid valve normally open OD.15-X-36-Y-Z-00	699
OD.15-X-21-Y-Z	Bosch Rexroth solenoid valve normally closed OD.15-X-21-Y-Z	703
OD.15-X-21-Y-Z-00	Bosch Rexroth solenoid valve normally open OD.15-X-21-Y-Z-00	707
OD.15-X-89-Y-Z-00	Bosch Rexroth solenoid valve normally open OD.15-X-89-Y-Z-00	711
OD.92-X-77-Y-Z	Bosch Rexroth flow regulator proportional solenoid valve VEP-5A-2Q-09	715

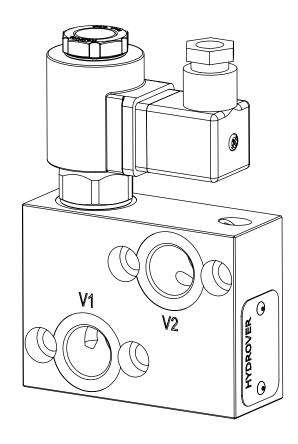


Code Description		Page
OD.95.06.89.72.00	OD.95.06.89.72.00 Bosch Rexroth flow regulator proportional solenoid valve VEPN-12A	
OD.94.01.18-Y-Z	Bosch Rexroth pressure relief proportional solenoid valve VEP-5B-2S-D	723
OD.91.06.77-Y-00 Bosch Rexroth pressure reducing proportional valve VEP-5A-2R-06-P		727
OD.02.36-X-Y-Z Bosch Rexroth coil D36 for on-off solenoid valves		731
OD.02.21.X-Y-Z	Bosch Rexroth coil R7 for proportional solenoid valves	733
OD.02.09.01.30-Z-01	Bosch Rexroth coil S5 for proportional solenoid valves	734

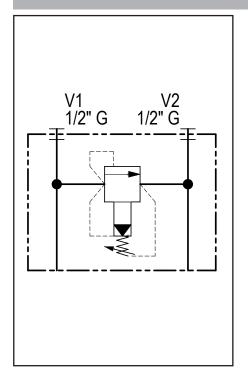


14 SERIES Valves for hydraulic motors

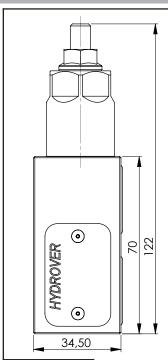




Relief valve single effect for OMH-OMP-OMR motors / 80 lpm H14001

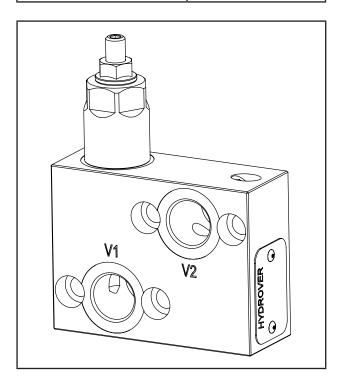


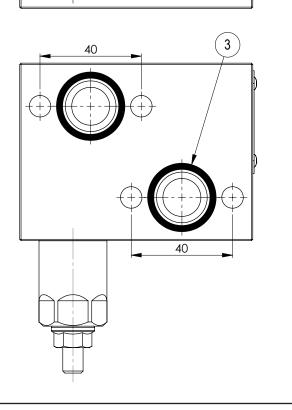
HYDROVER



V1 V2 V2		
28 36	Wa	17 36

Technical data		
Max. pressure	250 bar	
Max. flow	80 lpm *	
Weight	0,7 Kg	
Manifold material	Aluminium	
V1 / V2 ports	1/2" G	





N°	Description	Q.ty
1	Bosch Rexroth relief valve VSPN-10A depicted with screw adjustment *	1
2	Ø 8,5 through hole for mounting with counterbore	4
3	OR 130 i. Ø 22,22 cross section 2,62	2

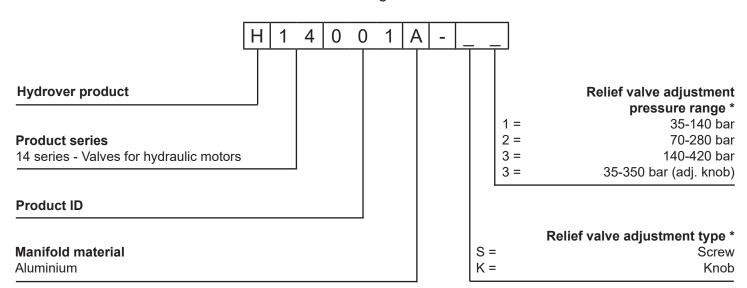
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Valves for hydraulic motors 14 SERIES

14 SERIES **H14001**

Ordering code

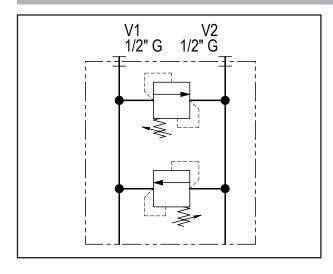


^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H14001A.

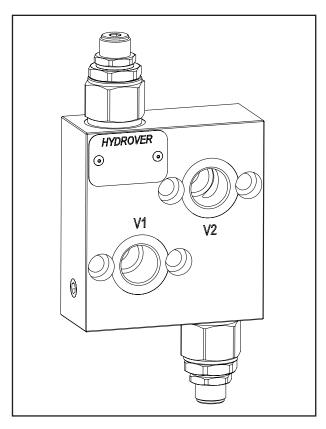
The manifold will still be provided with the corrisponding cavity.

Relief valve double effect for OMH-OMP-OMR motors / 40 lpm H14012



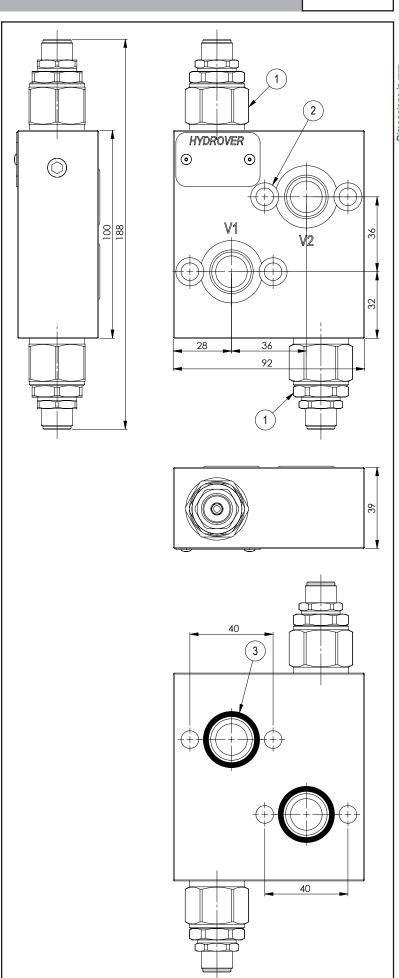


Technical data		
Max. pressure	250 bar	
Max. flow	40 lpm *	
Weight	1,2 Kg	
Manifold material	Aluminium	
V1 / V2 ports	1/2" G	



N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.040 *	2
2	Ø 8,5 through hole for mounting with counterbore	4
3	OR 130 i. Ø 22,22 cross section 2,62	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

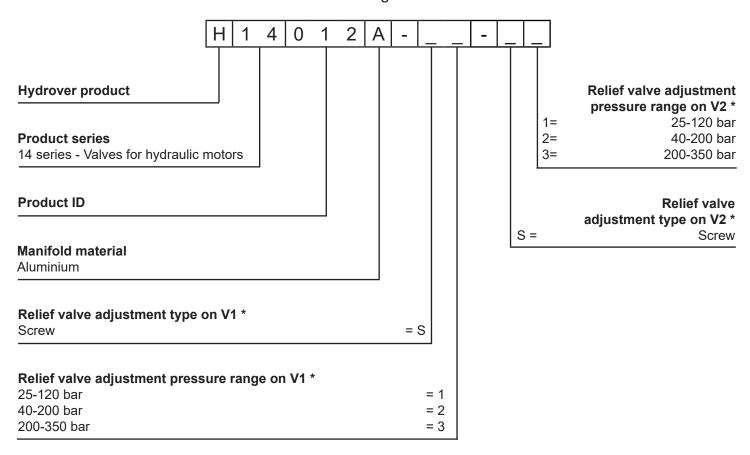




Valves for hydraulic motors 14 SERIES

14 SERIES **H14012**

Ordering code

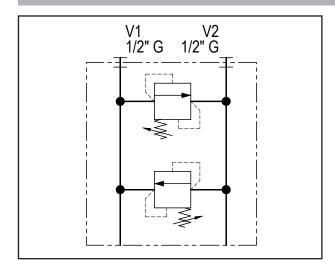


^{*} Omit if not required. To order the product without the pressure relief cartridge valves, omit the pressure range and the adjustment type options: H14012A.

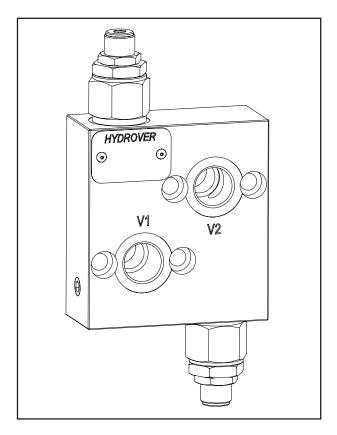
The manifold will still be provided with the corrisponding cavities.

Relief valve double effect for OMH-OMP-OMR motors / 60 lpm H14013



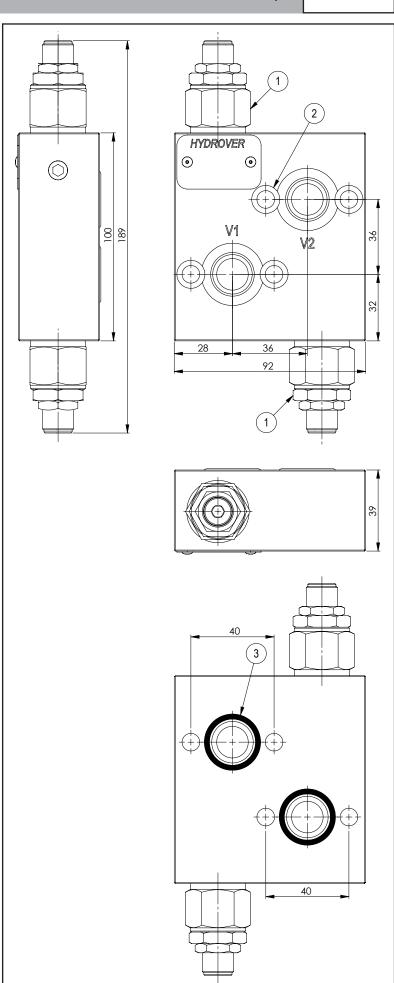


Technical data		
Max. pressure	250 bar	
Max. flow	60 lpm *	
Weight	1,2 Kg	
Manifold material	Aluminium	
V1 / V2 ports	1/2" G	



N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.070 *	2
2	Ø 8,5 through hole for mounting with counterbore	4
3	OR 130 i. Ø 22,22 cross section 2,62	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

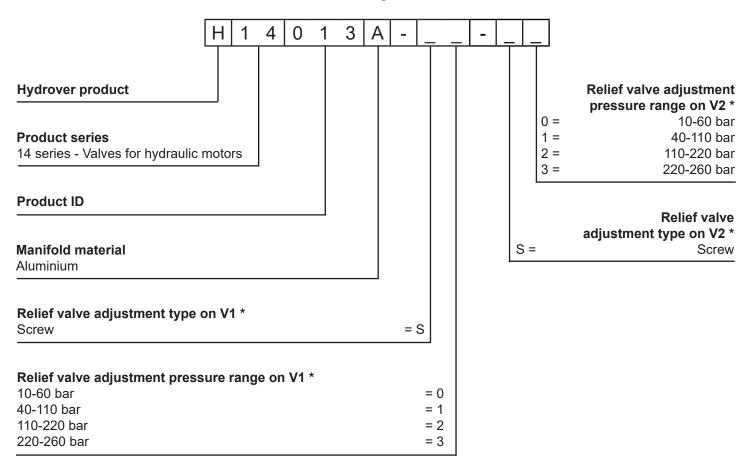




Valves for hydraulic motors 14 SERIES

14 SERIES **H14013**

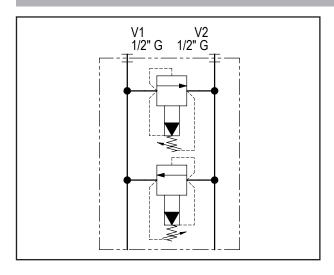
Ordering code



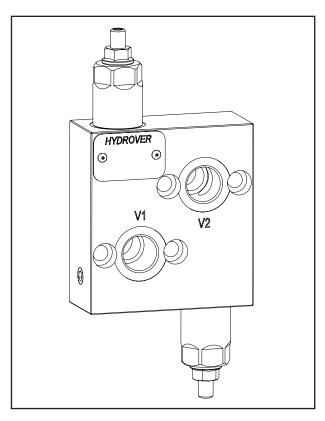
^{*} Omit if not required. To order the product without the pressure relief cartridge valves, omit the pressure range and the adjustment type options: H14013A.

The manifold will still be provided with the corrisponding cavities.

Relief valve double effect for OMH-OMP-OMR motors / 80 lpm H14014

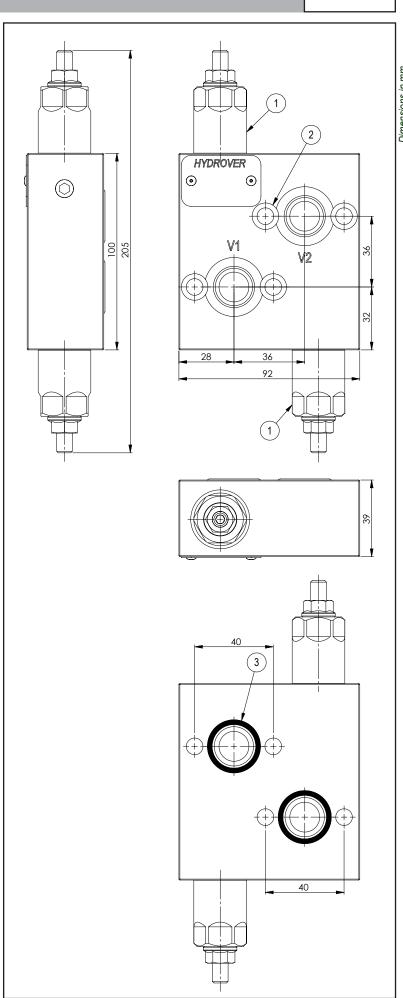


Technical data		
Max. pressure	250 bar	
Max. flow	80 lpm *	
Weight	1,3 Kg	
Manifold material	Aluminium	
V1 / V2 ports	1/2" G	

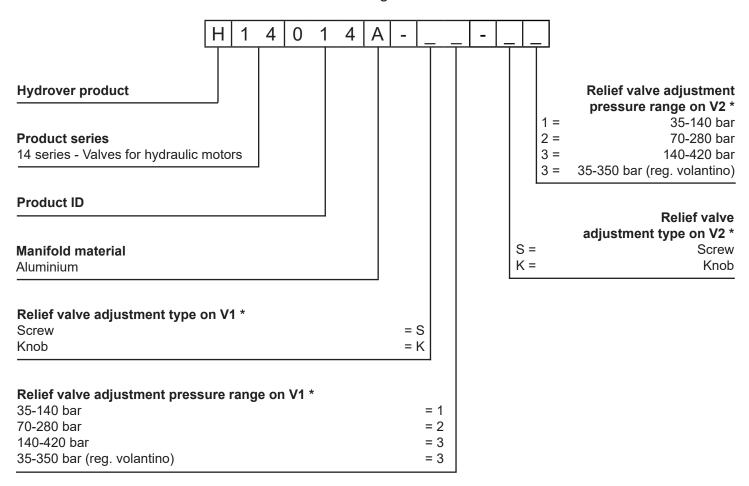


N°	Description	Q.ty
1	Bosch Rexroth relief valve VSPN-10A depicted with screw adjustment *	2
2	Ø 8,5 through hole for mounting with counterbore	4
3	OR 130 i. Ø 22,22 cross section 2,62	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



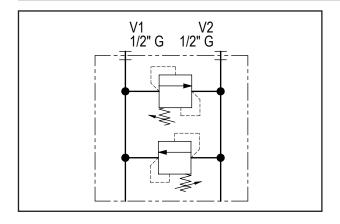
Ordering code



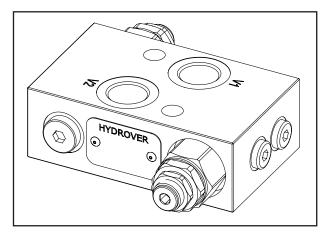
^{*} Omit if not required. To order the product without the pressure relief cartridge valves, omit the pressure range and the adjustment type options: H14014A.

The manifold will still be provided with the corrisponding cavities.

Relief valve double effect for OMS motors / 60 lpm H14032

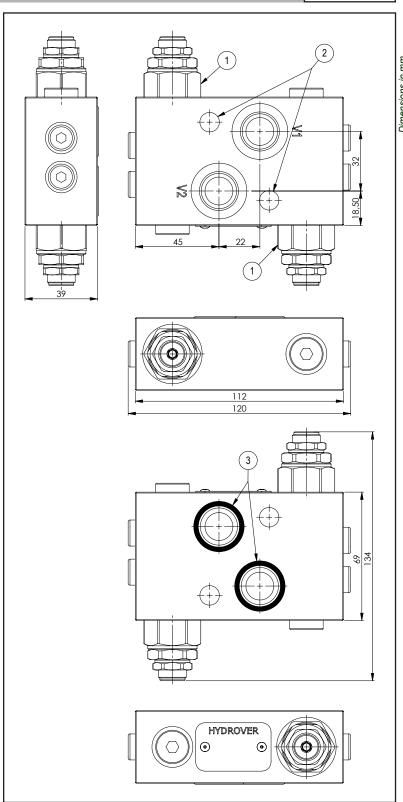


Technical data		
Max. pressure	250 bar	
Max. flow	60 lpm *	
Weight	1 Kg	
Manifold material	Aluminium	
V1 / V2 ports	1/2" G	



N°	Description	
1	Bosch Rexroth relief valve VMD1.070 *	2
2	Ø 10,5 through hole for mounting	2
3	OR 130 i. Ø 22,22 cross section 2,62	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

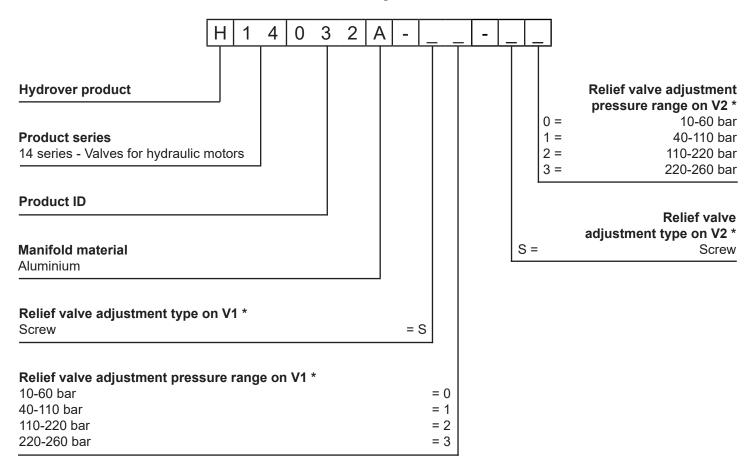




Valves for hydraulic motors 14 SERIES

14 SERIES **H14032**

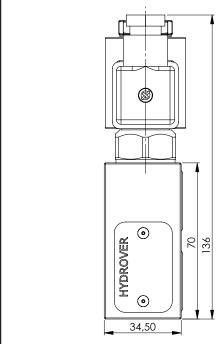
Ordering code



^{*} Omit if not required. To order the product without the pressure relief cartridge valves, omit the pressure range and the adjustment type options: H14032A.

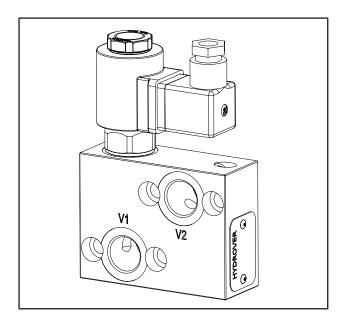
The manifold will still be provided with the corrisponding cavities.

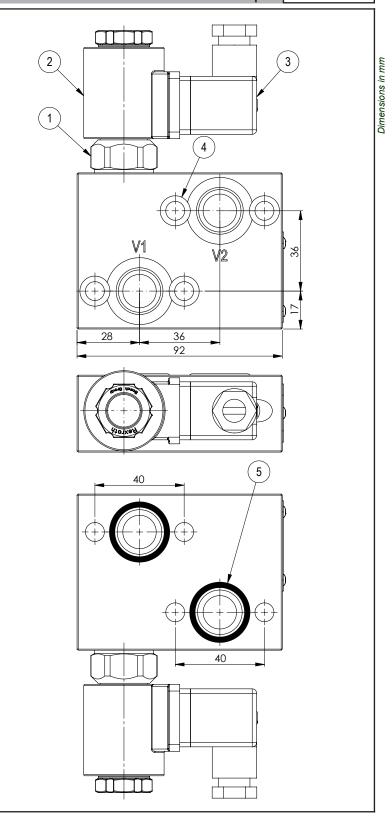
Poppet type solenoid operated directional valve between V1 and V2 for OMH-OMP-OMR motors / 70 lpm



34,50 30 30 30 30 30 30 30 30 30 30 30 30 30	

Technical data	
Max. pressure	250 bar
Max. flow	70 lpm *
Weight	0,8 Kg
Manifold material	Aluminium
V1 / V2 ports	1/2" G

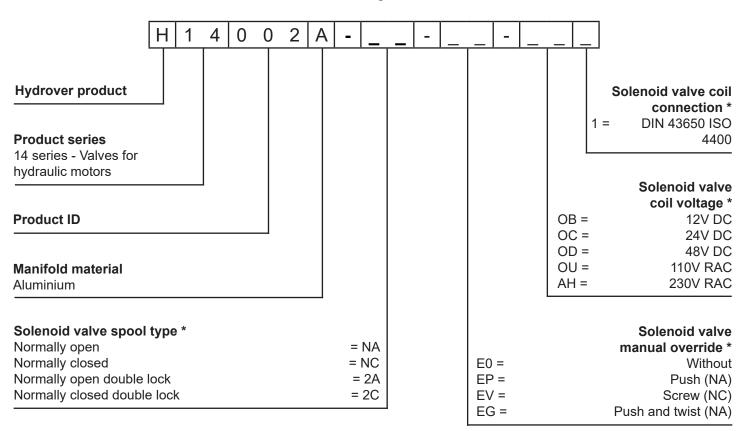




N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-10A-NC OD.15-X-36-Y-000000 (normally closed) or VEI-16-10A-NA OD.15-X-36-Y-000000 (normally open) depicted without manual override *	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
3	Connector DIN 43650 ISO 4400	1
4	Ø 8,5 through hole for mounting with counterbore	4
5	OR 130 i. Ø 22,22 cross section 2,62	2

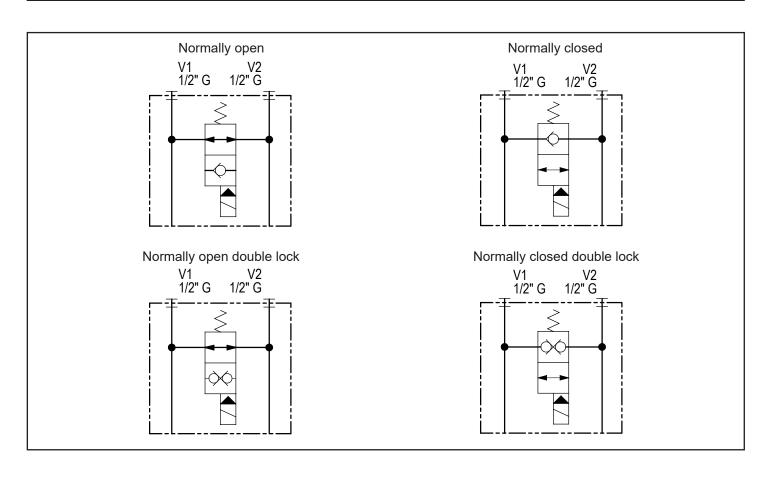
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

Ordering code



^{*} Omit if not required. For example, to order the product without the solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H14002A.

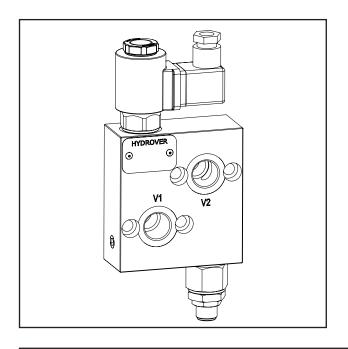
The manifold will still be provided with the corrisponding cavity.

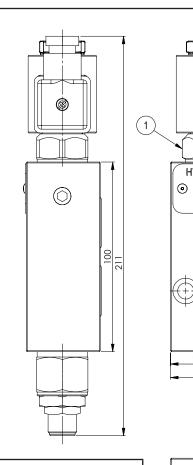


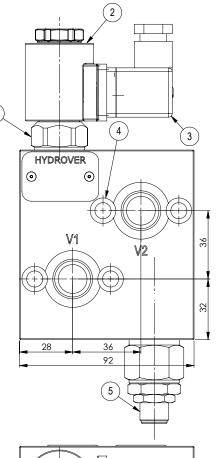
Bypass and relief for OMH-OMP-OMR motors / 60 lpm

H1	40	10
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Technical data	
Max. pressure	250 bar
Max. flow	60 lpm *
Weight	1,4 Kg
Manifold material	Aluminium
V1 / V2 ports	1/2" G



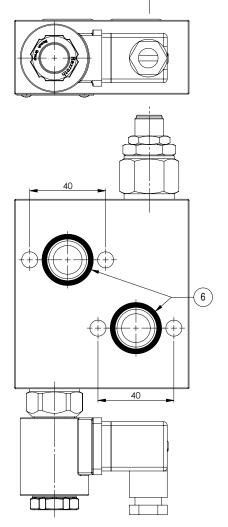




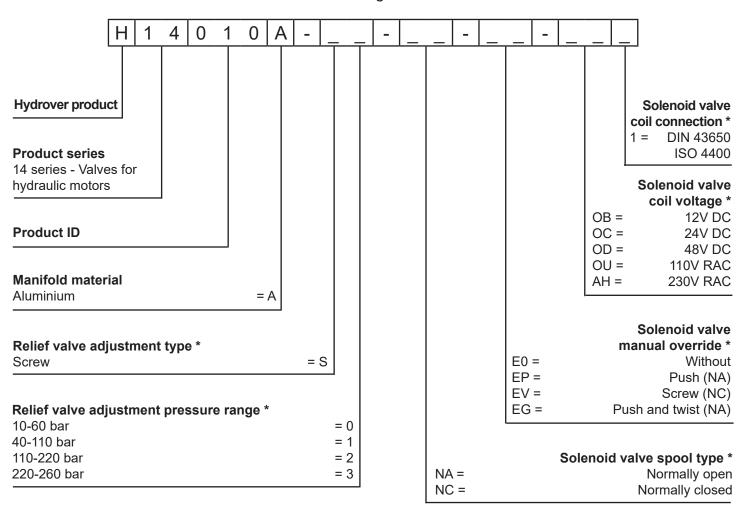
Normally open	Normally closed
V1 V2 1/2" G 1/2" G	V1 V2 1/2" G 1/2" G

N°	Description	Q.ty
1	Bosch Rexroth solenoid valve OD.15.05.36-Y-000000 (normally closed) or OD.15.06.36-Y-000000 (normally open) depicted without manual override *	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
3	Connector DIN 43650 ISO 4400	1
4	Ø 8,5 through hole for mounting with counterbore	4
5	Bosch Rexroth relief valve VMD1.070 *	1
6	OR 130 i. Ø 22,22 cross section 2,62	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Ordering code



^{*} Omit if not required. For example, to order the product without the solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H14010A-S2.

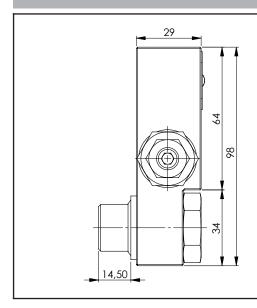
The manifold will still be provided with the corrisponding cavity.

To inhibit a function, replace the related valve options with TL: eg H14010A-S2-TL.

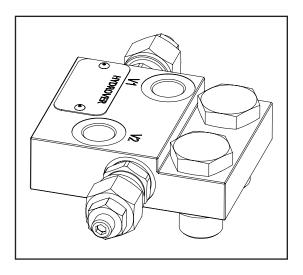
In the cavity it will be mounted a long plug.

Valve	Cavity	Long plug code
Solenoid valve OD.15.05.36-Y-000000 o OD.15.06.36-Y-000000	CA-10A-2N	0489A2008500000
Pressure relief valve VMD1.070	CA-10A-2N	0489A2008500000

Relief valve double effect for Parker TE motors / 30 lpm H14005

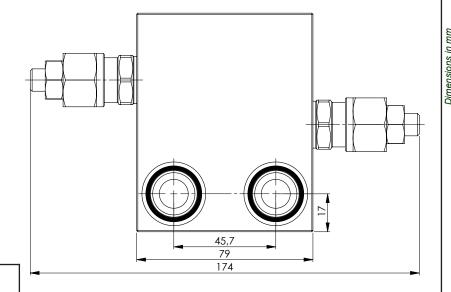


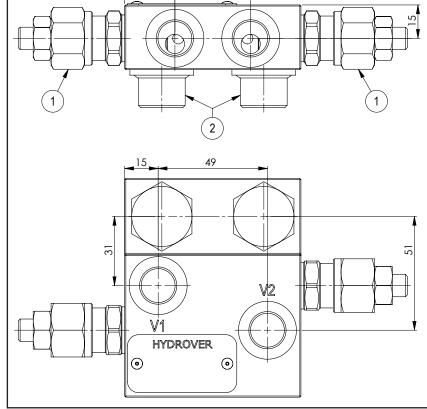
Technical data	
Max. pressure	250 bar
Max. flow	30 lpm *
Weight	1 Kg
Manifold material	Aluminium
V1 / V2 ports	3/8" G

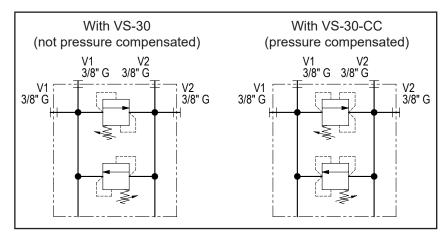


N°	Description	Q.ty
1	Bosch Rexroth relief valve VS-30 (as depicted) or Bosch Rexroth sequence valve VS-30-CC *	2
2	Banjo bolt 1/2" G	2

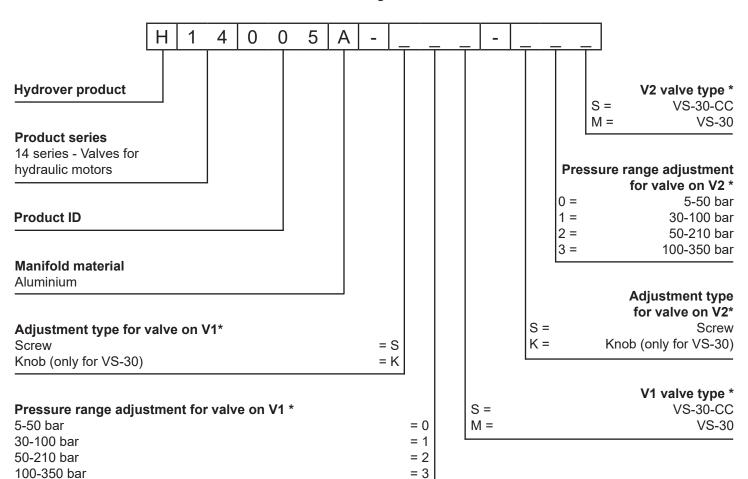
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue





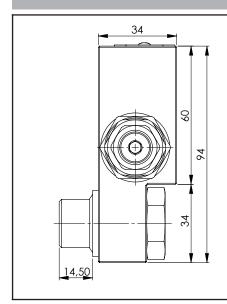


Ordering code



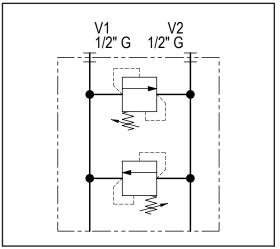
^{*} Omit if not required. To order the product without valves, omit their options: H14005A. The manifold will still be provided with the corrisponding cavities.

Relief valve double effect for Parker TE motors / 40 lpm H14006



45.7	=
79	[†]
	45,7 79 167

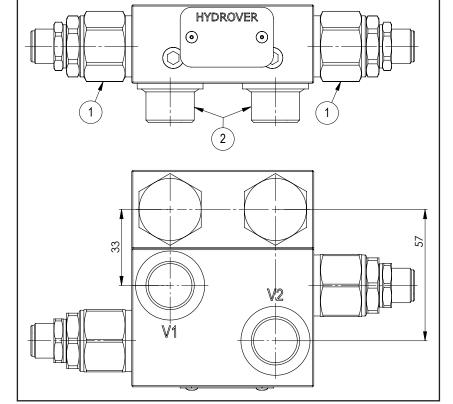
Technical data		
Max. pressure	250 bar	
Max. flow	40 lpm *	
Weight	1 Kg	
Manifold material	Aluminium	
V1 / V2 ports	1/2" G	

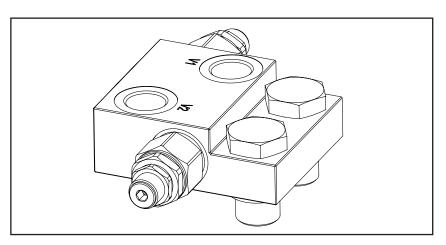


1/2" G1/2" G

N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.040 *	2
2	Banjo bolt 1/2" G	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

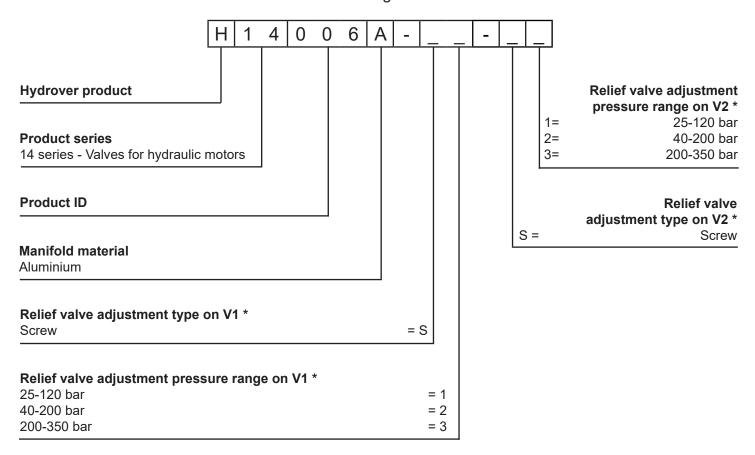








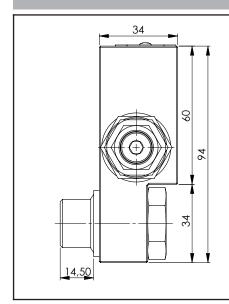
Ordering code



^{*} Omit if not required. To order the product without the pressure relief cartridge valves, omit the pressure range and the adjustment type options: H14004A.

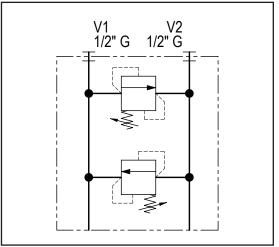
The manifold will still be provided with the corrisponding cavities.

Relief valve double effect for Parker TE motors / 60 lpm H14004



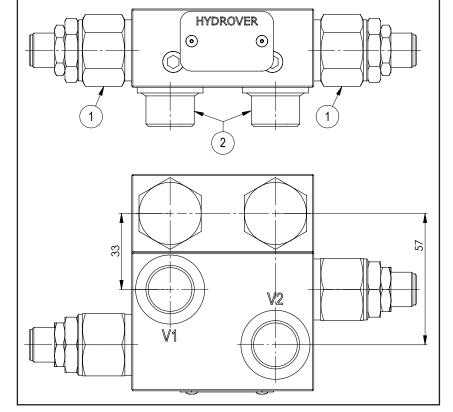
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		4	15,7	
		_	79	
1	4	1	168	-

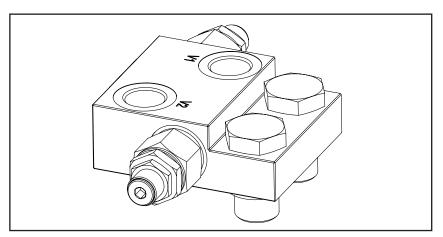
Technical data		
Max. pressure	250 bar	
Max. flow	60 lpm *	
Weight	1 Kg	
Manifold material	Aluminium	
V1 / V2 ports	1/2" G	



N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.070 *	2
2	Banjo bolt 1/2" G	2

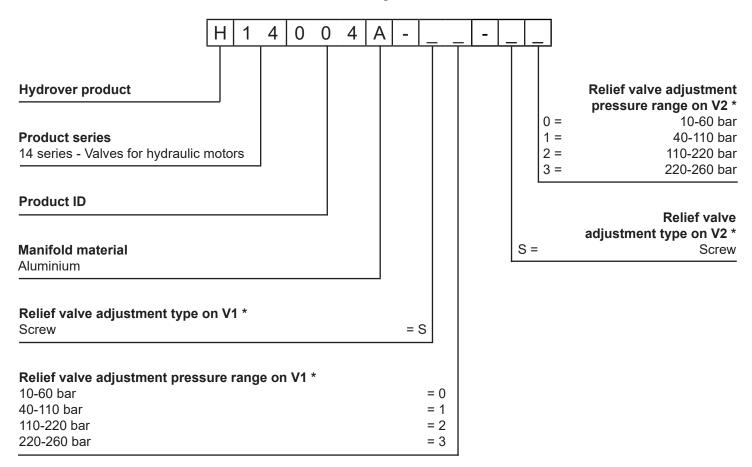
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue







Ordering code

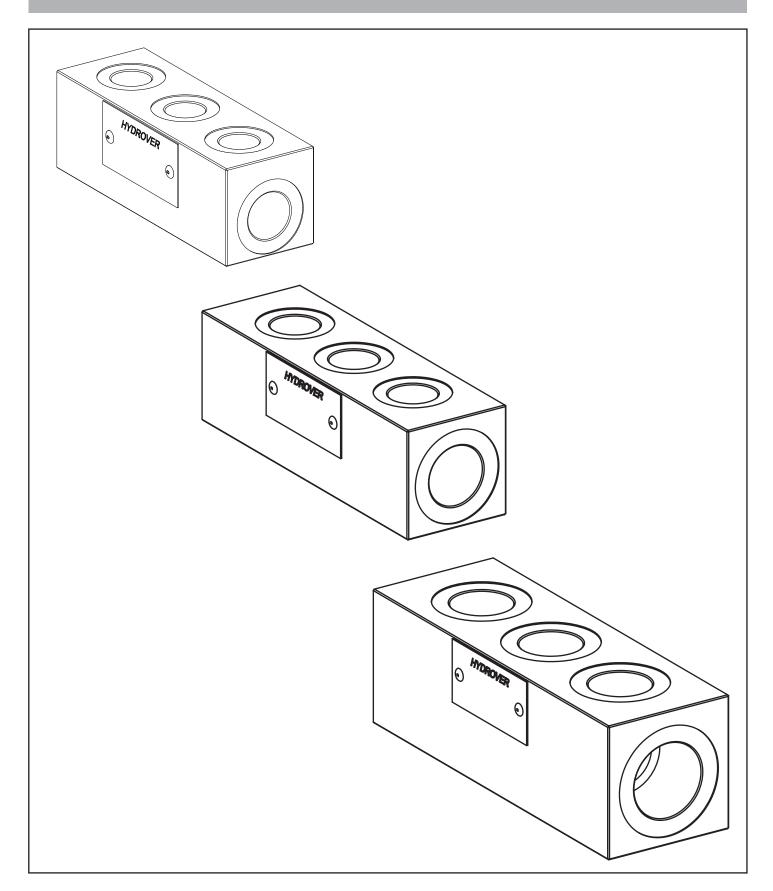


^{*} Omit if not required. To order the product without the pressure relief cartridge valves, omit the pressure range and the adjustment type options: H14004A.

The manifold will still be provided with the corrisponding cavities.



16 SERIES Manifolds



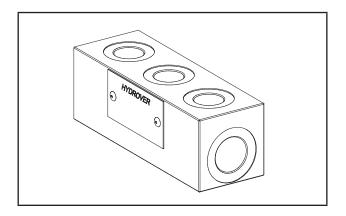


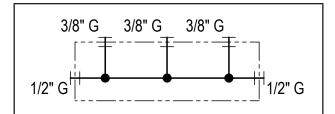
Multi ports manifold / 2 ports 1/2" G / 3 ports 3/8" G

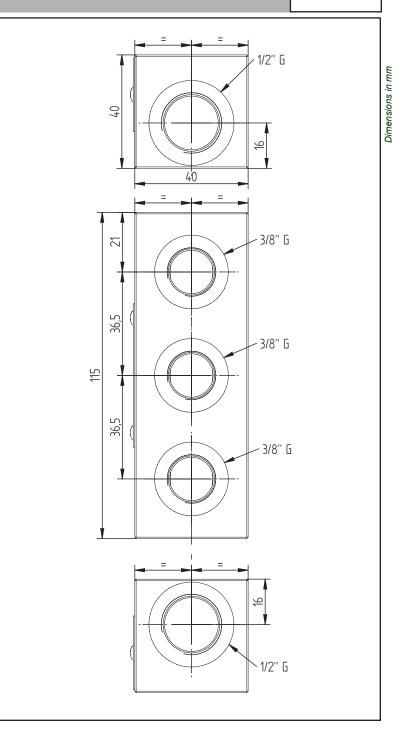
Н	1	601	

Technical data			
Max. pressure	210 bar		
Weight	0,4 Kg		
Manifold material	Aluminium		
Lateral ports	1/2" G		
Top ports	3/8" G		

HYDROUER

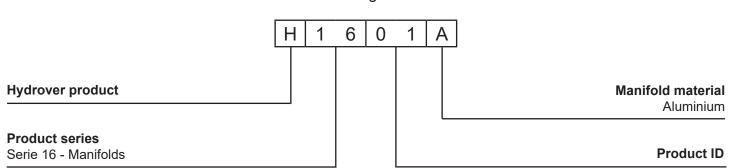








Multi ports manifolds 16 SERIES H1601



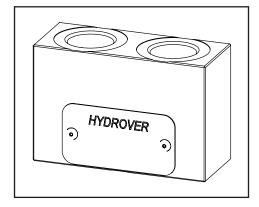


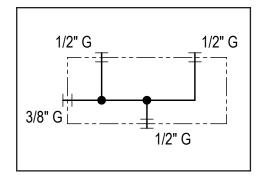
Multi ports manifolds 16 SERIES

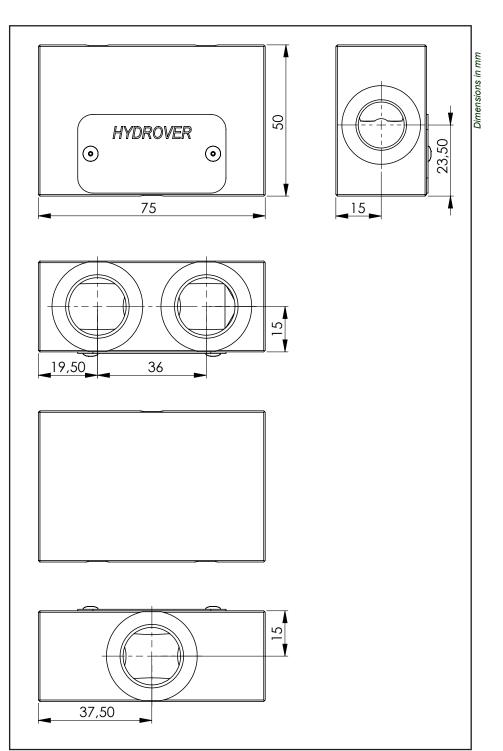
Multi ports manifold / 3 ports 1/2" G / 1 ports 3/8" G

H1610

Technical data			
Max. pressure	350 bar		
Weight	0,7 Kg		
Manifold material	Steel		
Top and bottom ports	1/2" G		
Lateral port	3/8" G		

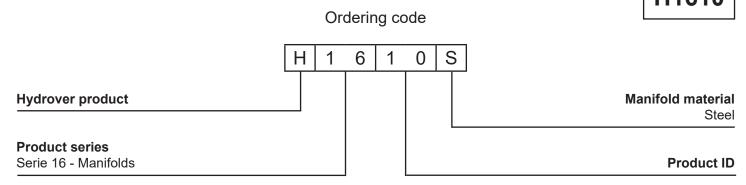








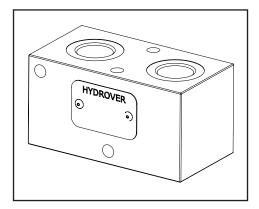
Multi ports manifolds 16 SERIES H1610

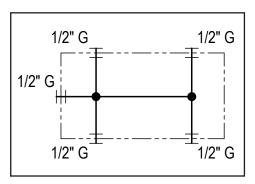


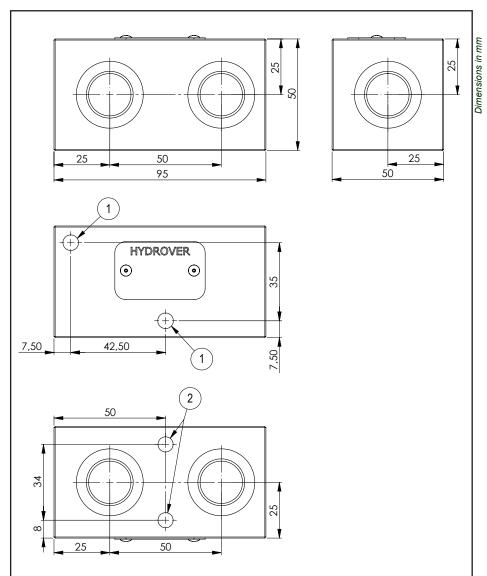


Multi ports manifold / 5 ports 1/2" G

Technical data			
Max. pressure	350 bar		
Weight	1,5 Kg		
Manifold material	Steel		
Ports	1/2" G		



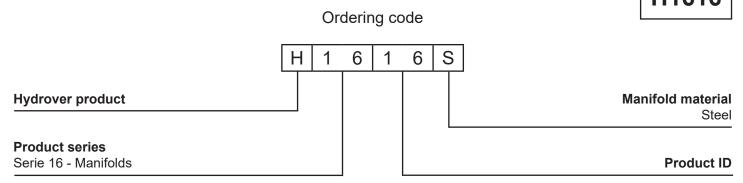




١	1° [Description	Q.ty
	1 0	Ø 7 through hole for mounting	2
	2 N	M8x10 thread for mounting	2



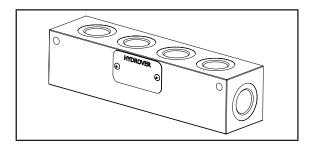
Multi ports manifolds 16 SERIES H1616

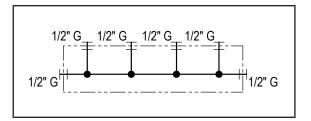


Multi ports manifold / 6 ports 1/2" G

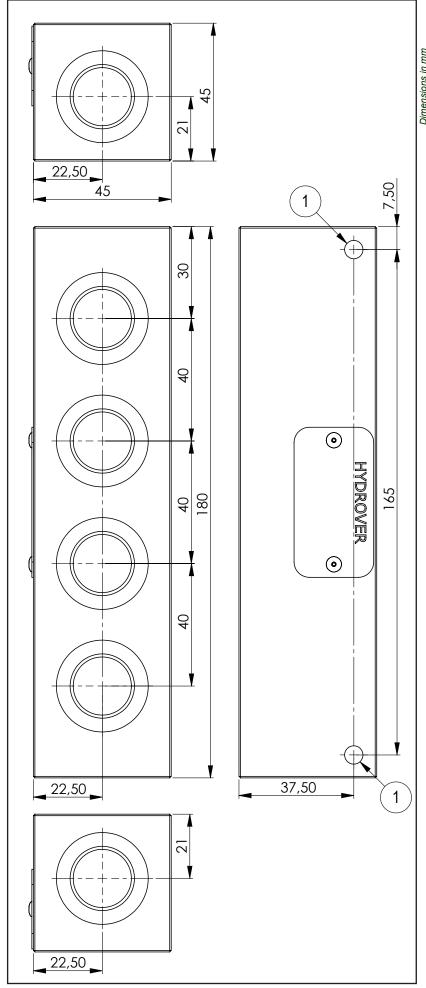
H1611

Technical data		
Max. pressure	210 bar	
Weight	0,85 Kg	
Manifold material	Aluminium	
Ports	1/2" G	



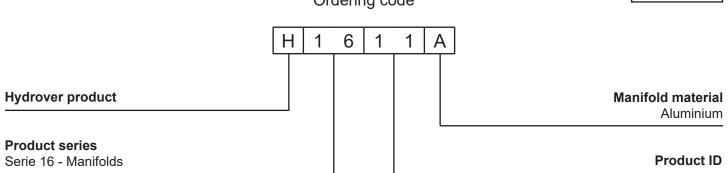


İ	N°	Description	Q.ty
	1	Ø 6 through hole for mounting	2





Multi ports manifolds 16 SERIES H1611

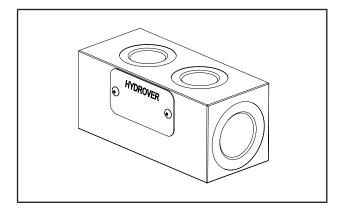


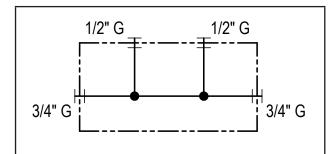


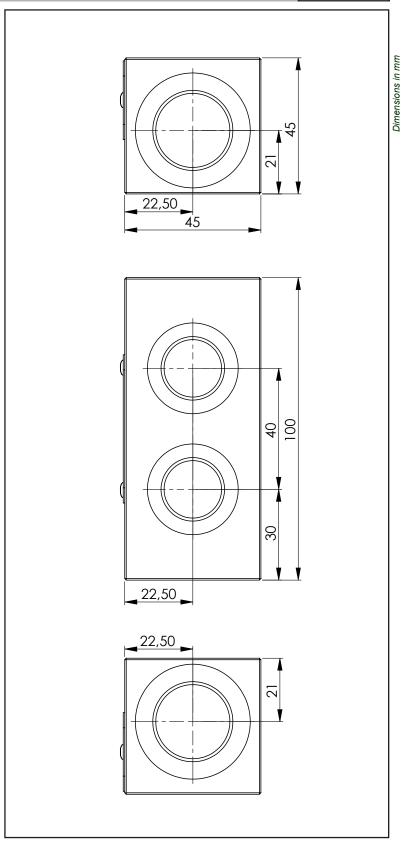
Multi ports manifold / 2 ports 3/4" G / 2 ports 1/2" G

ш	4	C	A	0
П		6	U	0

Technical data		
Max. pressure	210 bar	
Weight	0,4 Kg	
Manifold material	Aluminium	
Lateral ports	3/4" G	
Top ports	1/2" G	



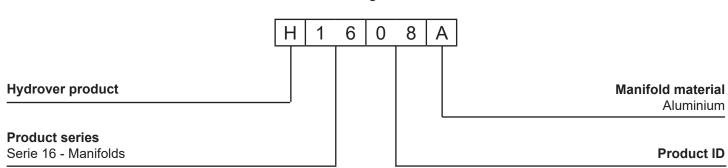






Multi ports manifolds 16 SERIES

H1608

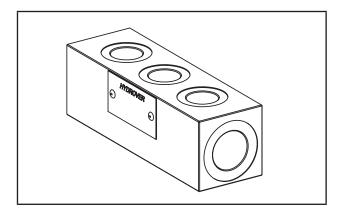


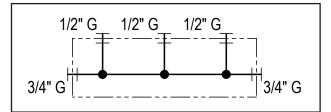


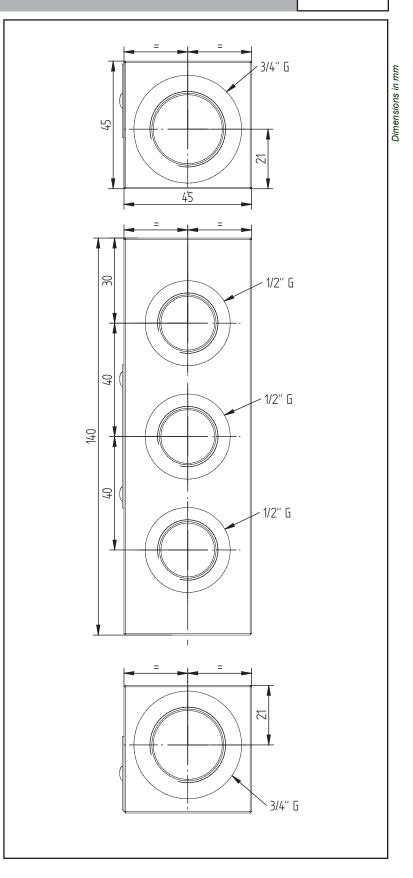
Multi ports manifold / 2 ports 3/4" G / 3 ports 1/2" G

Technical data		
Max. pressure	210 bar	
Weight	0,6 Kg	
Manifold material	Aluminium	
Lateral ports	3/4" G	
Top ports	1/2" G	

HYDROUER

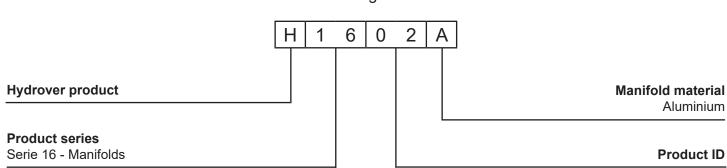








Multi ports manifolds 16 SERIES H1602





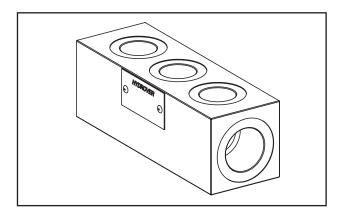


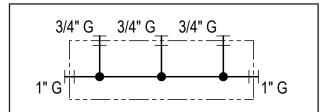
Multi ports manifold / 2 ports 1" G / 3 ports 3/4" G

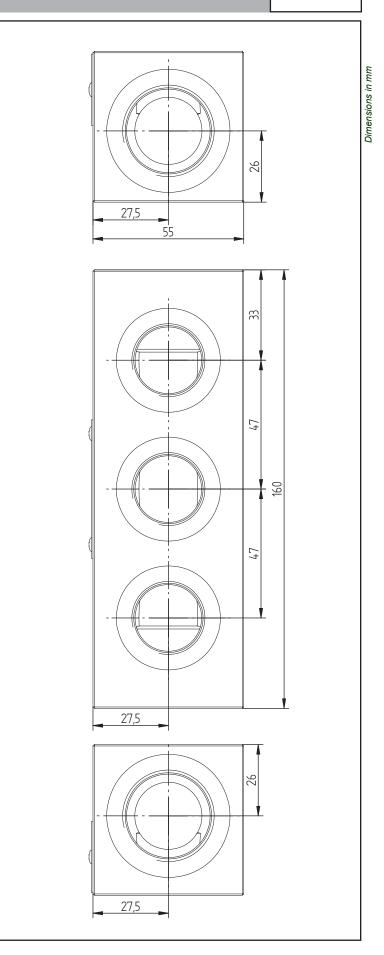
H1603

Technical data			
Max. pressure	210 bar		
Weight	1,1 Kg		
Manifold material	Aluminium		
Lateral ports	1" G		
Top ports	3/4" G		

HYDROUER



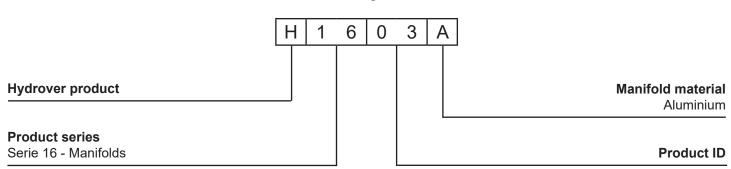






Multi ports manifolds 16 SERIES

H1603

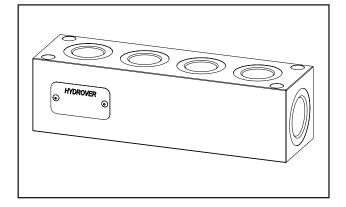


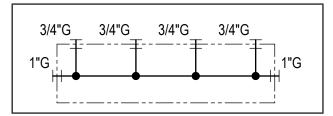
Multi ports manifold / 2 ports 1" G / 4 ports 3/4" G

H1609

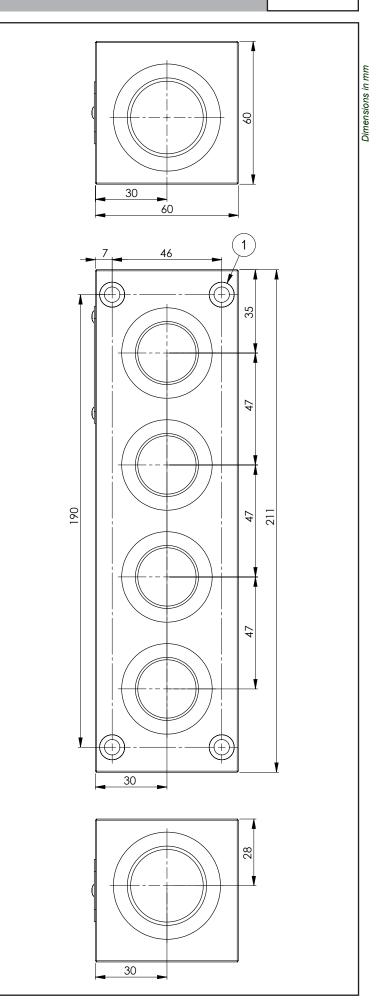
Technical data		
Max. pressure	210 bar	
Weight	1,6 Kg	
Manifold material	Aluminium	
Lateral ports	1" G	
Top ports	3/4" G	

HYDROVER





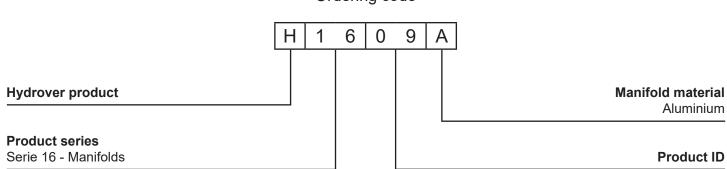
N°	Description	Q.ty
1	Ø 6,5 through hole for mounting with	2
	counterbore	





Multi ports manifolds 16 SERIES

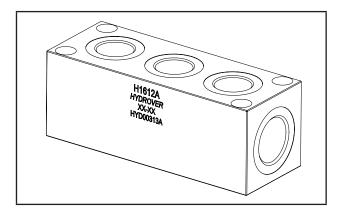
H1609

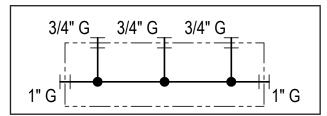


Multi ports manifold - 2 ports 1" G - 3 ports 3/4" G H1612

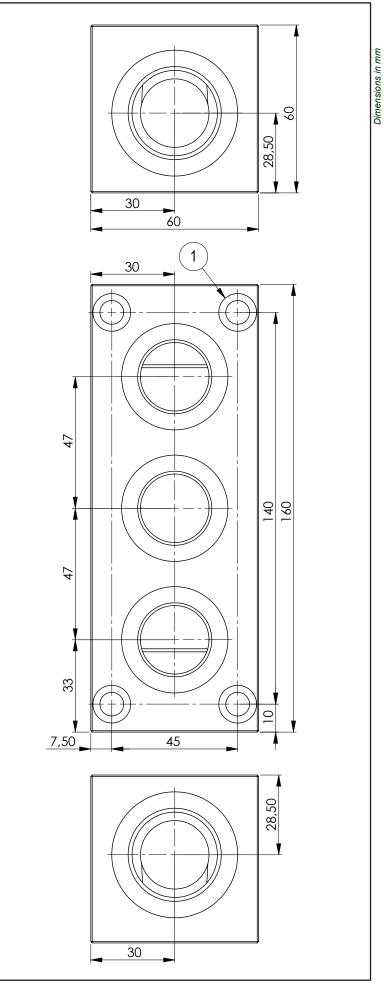
Technical data			
Max. pressure	210 bar		
Weight	1,25 Kg		
Manifold material	Aluminium		
Lateral ports	1" G		
Top ports	3/4" G		

HYDROVER



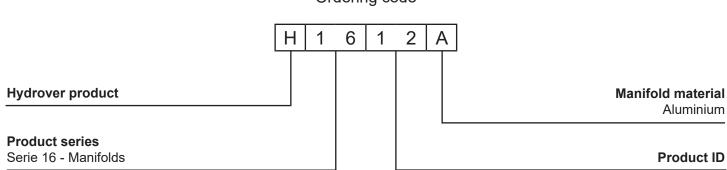


N°	Description	Q.ty
1	Ø 8,5 through hole for mounting with	4
	counterbore	



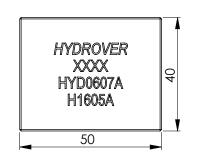


Multi ports manifolds 16 SERIES H1612



Multi ports manifold double T 3/8" G

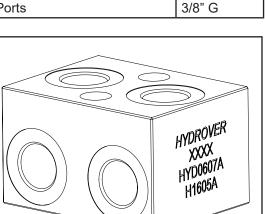
H1605

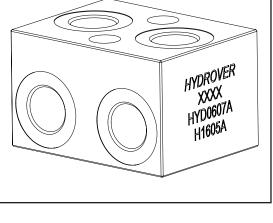


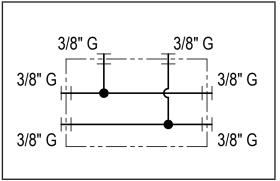
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15	*	35	·

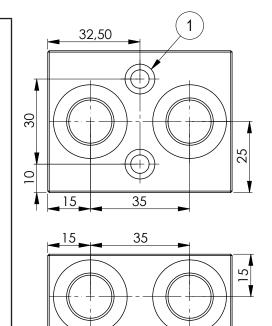


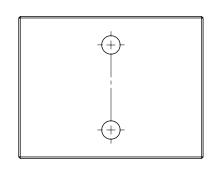
Technical data		
Max. pressure	250 bar	
Weight	0,3 Kg	
Manifold material	Aluminium	
Ports	3/8" G	









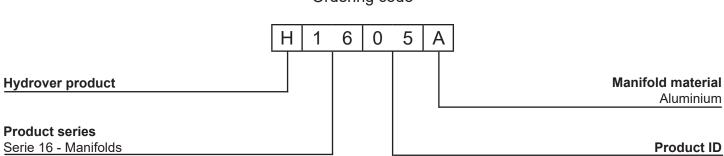


N°	Description	Q.ty
1	Ø 6,5 through hole for mounting with counterbore	2



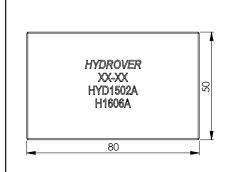
Multi ports manifolds 16 SERIES

H1605



Multi ports manifold double T 1/2" G

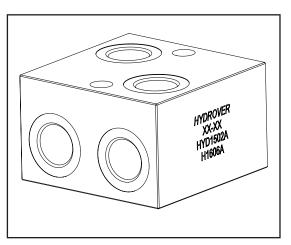
H1606

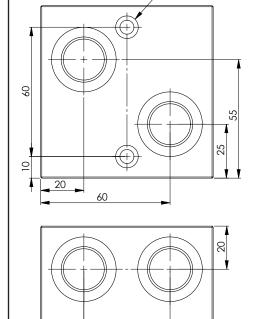


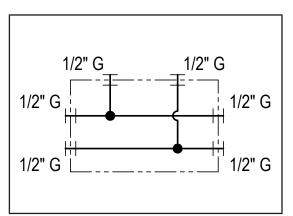
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20	4 8	0	
	8	0 -	

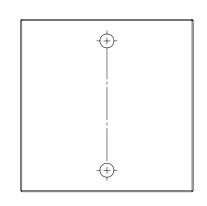


Technical data	
Max. pressure	250 bar
Weight	0,8 Kg
Manifold material	Aluminium
Ports	1/2" G







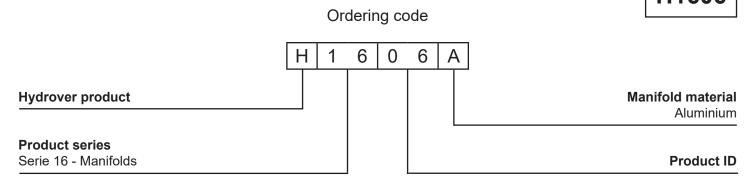


40

N°	Description	Q.ty
1	Ø 6,5 through hole for mounting with counterbore	2

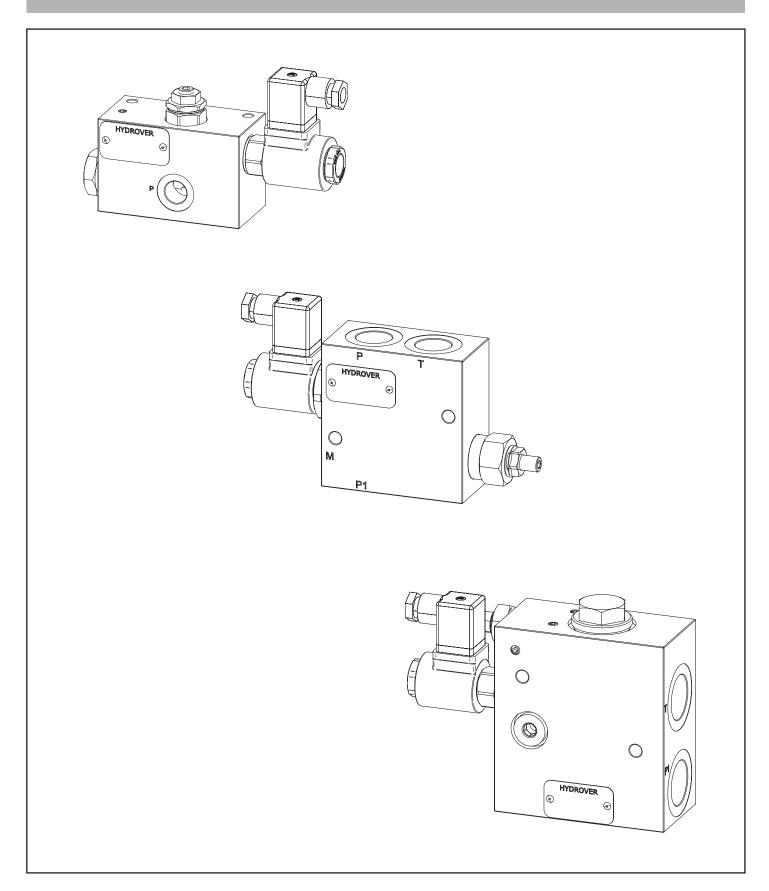


Multi ports manifolds 16 SERIES H1606

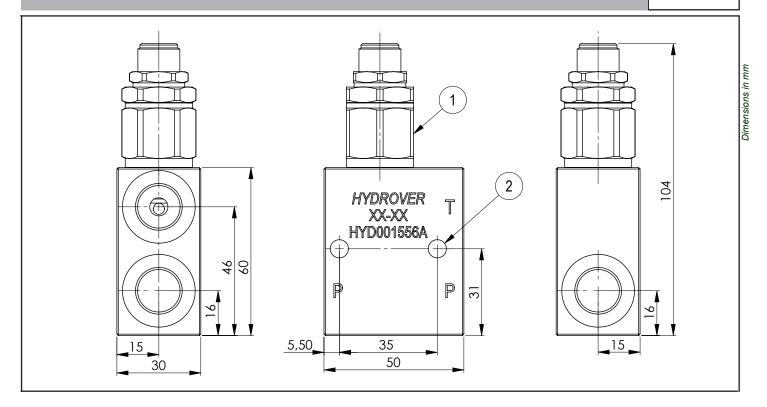




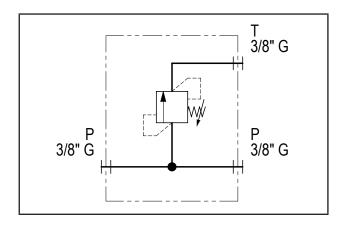
17 SERIES Inline valves

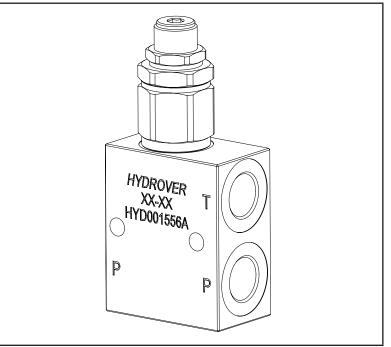


Inline relief valve / crossing P 3/8" G / T 3/8" G / 25 lpm **H17053**



Technical data	
Max. pressure	250 bar
Max. flow	25 lpm *
Weight	0,4 Kg
Manifold material	Aluminium
P / T ports	3/8" G



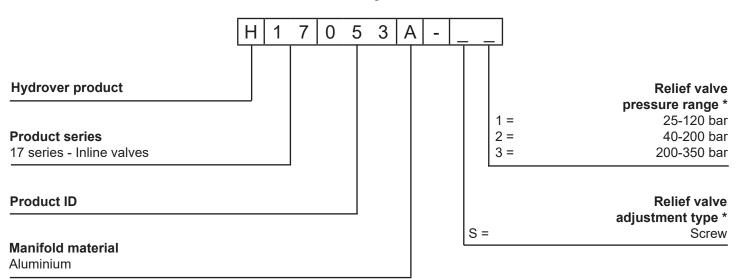


N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.025 *	1
2	Ø 6,5 through hole for mounting	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



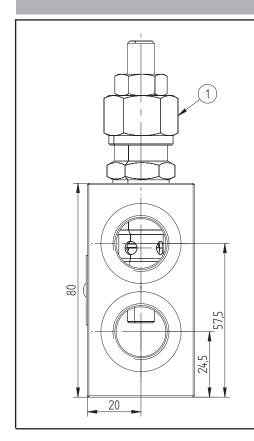
Ordering code

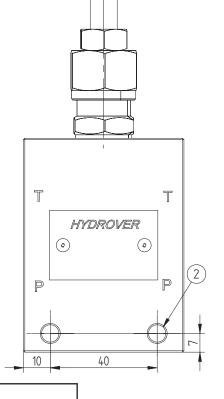


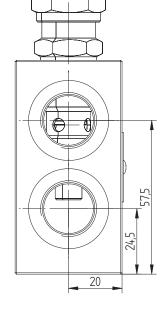
^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H17053A.

The manifold will still be provided with the corrisponding cavity.

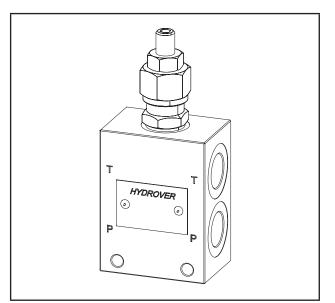
Inline relief valve / crossing P-T 1/2" G / 30 lpm H17021

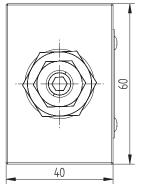


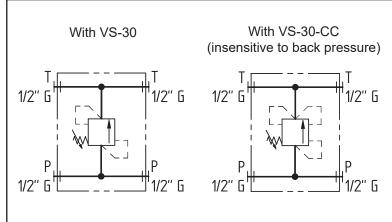




Technical data	
Max. pressure	250 bar
Max. flow	30 lpm *
Weight	0,6 Kg
Manifold material	Aluminium
P / T ports	1/2" G





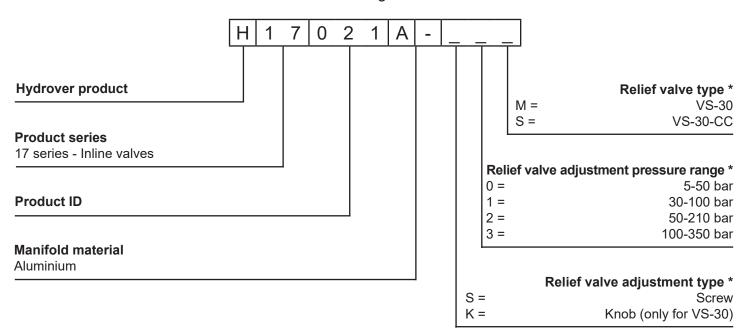


N°	Description	Q.ty
1	Bosch Rexroth relief valve VS-30 (as depicted) or VS-30-CC *	1
2	Ø 6,5 through hole for mounting	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



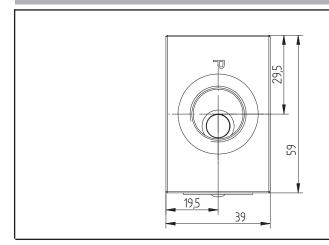
Ordering code



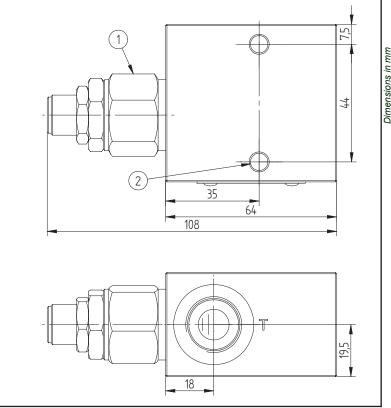
^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the relief valve type, adjustment pressure range and the adjustment type options: H17021A.

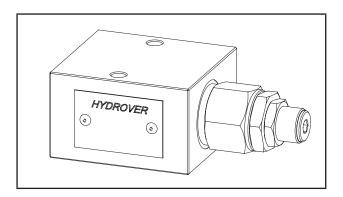
The manifold will still be provided with the corrisponding cavity.

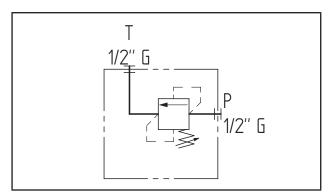
Inline relief valve / P-T 1/2" G / 70 lpm **H17018**



Technical data	
Max. pressure	350 bar
Max. flow	70 lpm *
Weight	1,2 Kg
Manifold material	Steel
P / T ports	1/2" G





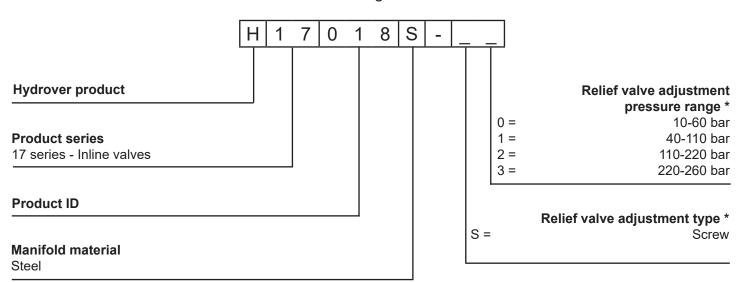


N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.070 *	1
2	Ø 6,5 through hole for mounting	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



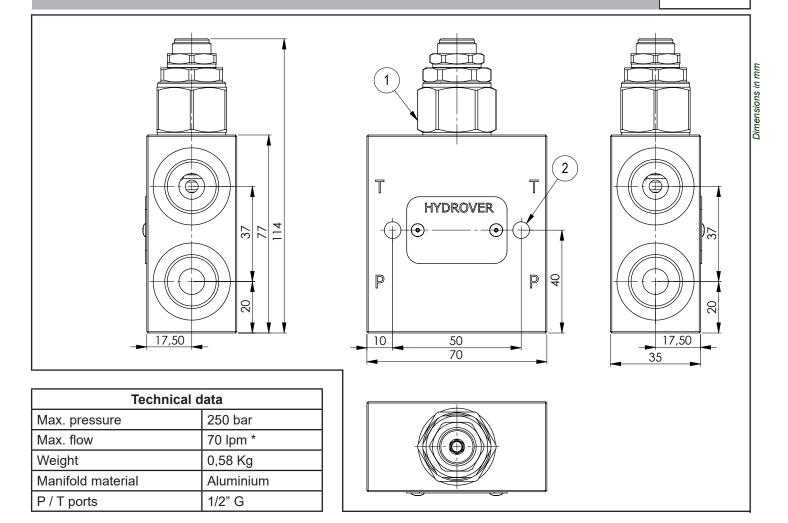
Ordering code

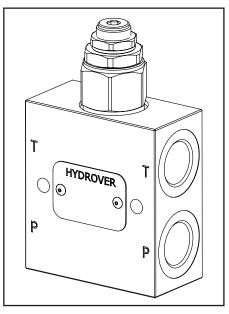


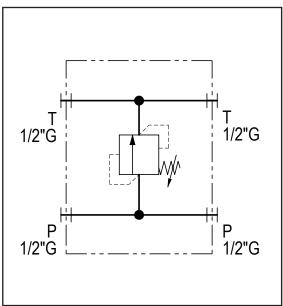
^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H17018S.

The manifold will still be provided with the corrisponding cavity.

Inline relief valve / crossing P-T 1/2" G / 70 lpm H17174



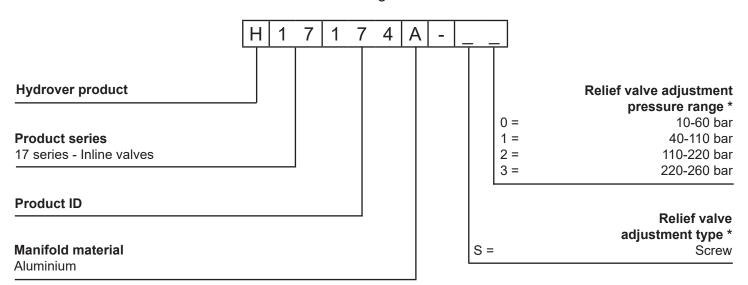




	N°	Description	Q.ty
	1	Bosch Rexroth relief valve VMD1.070 *	1
Γ	2	Ø 6,5 through hole for mounting	2

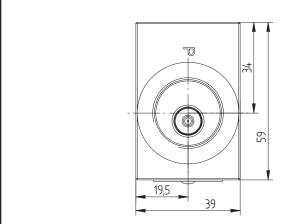
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



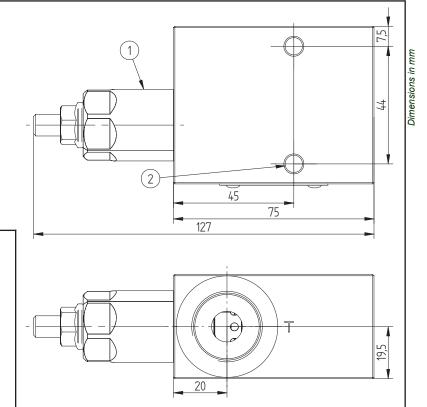


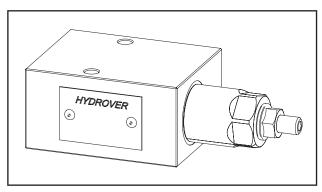
^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H17174A.

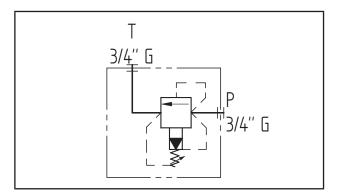
Inline relief valve / P-T 3/4" G / 120 lpm **H17019**



Technical data		
Max. pressure	350 bar	
Max. flow	120 lpm *	
Weight	1,3 Kg	
Manifold material	Steel	
P / T ports	3/4" G	



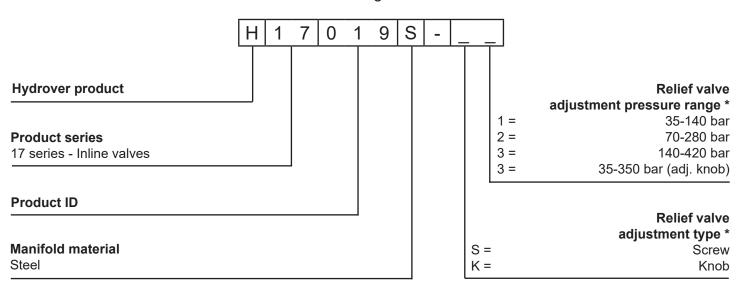




N°	Description	Q.ty
1	Bosch Rexroth relief valve VSPN-10A depicted with screw adjustment *	1
2	Ø 6,5 through hole for mounting	2

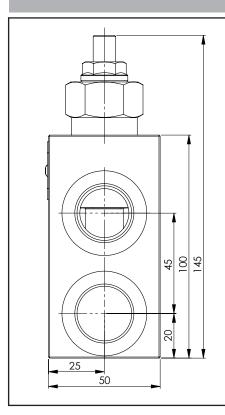
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

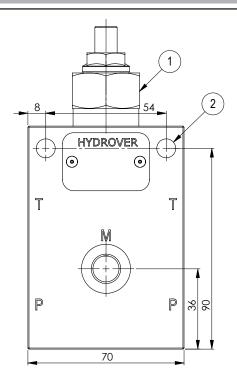


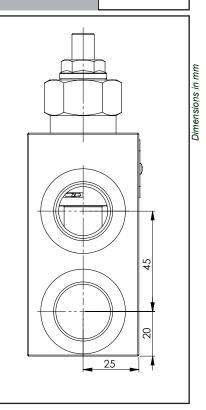


^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H17019S.

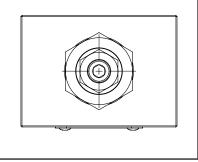
Inline relief valve / crossing P-T 3/4" G / 150 lpm H17125

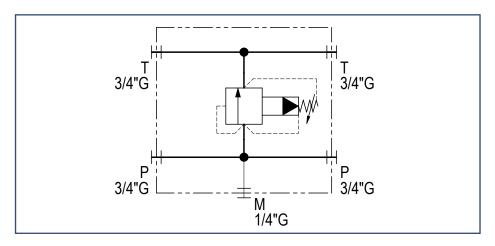


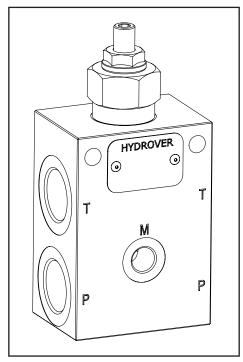




Technical data	
Max. pressure	250 bar
Max. flow	150 lpm *
Weight	1 Kg
Manifold material	Aluminium
M port	1/4" G
P / T ports	3/4" G



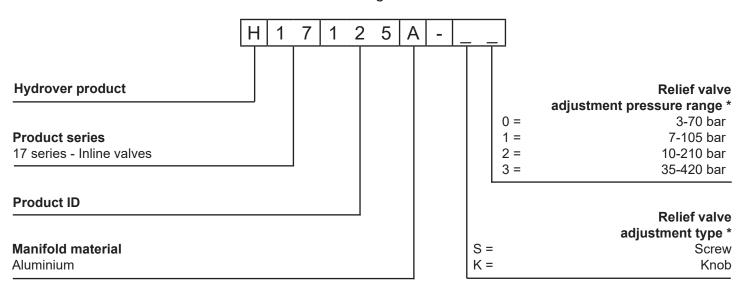




N°	Description	Q.ty
1 1	Bosch Rexroth relief valve VSP-150 depicted with screw adjustment *	1
2	Ø 8,5 through hole for mounting	2

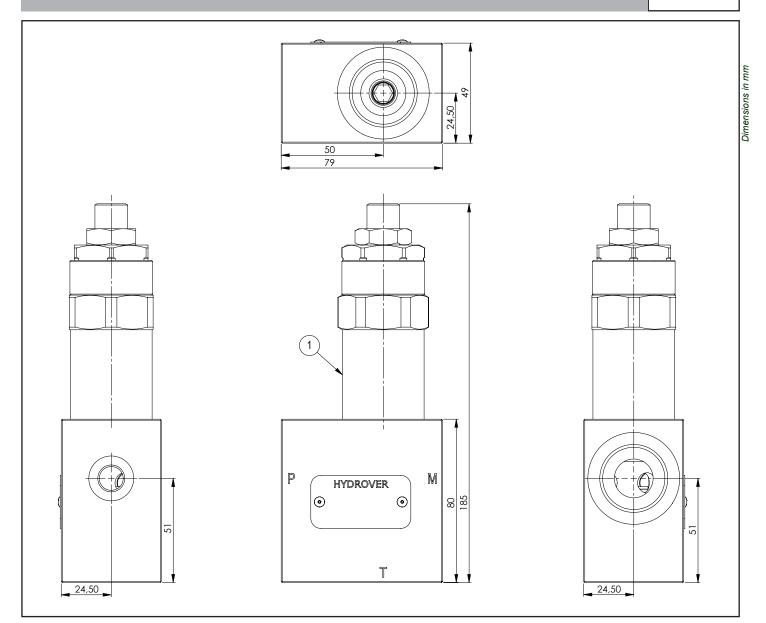
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

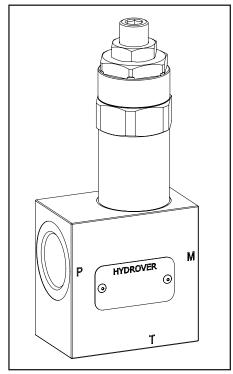




^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H17125A.

Inline relief valve / P-T 1" G / 240 lpm H17089

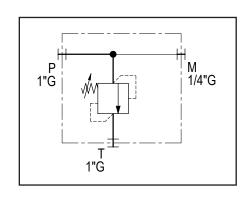




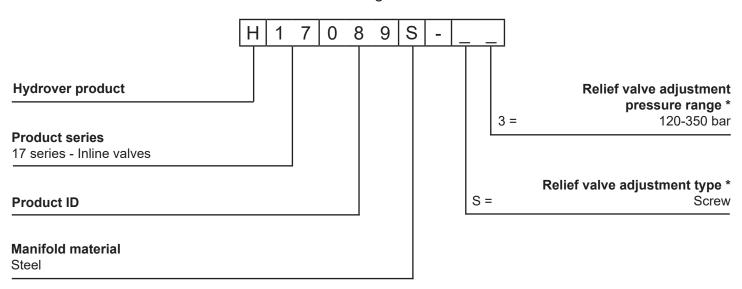
Technical data	
Max. pressure	350 bar
Max. flow	240 lpm *
Weight	2,75 Kg
Manifold material	Steel
P / T ports	1" G
M port	1/4" G

N°	Descrizione	Q.tà
1	Bosch Rexroth relief valve VSD-250	1

^{*} for complete technical information, click on the blue link



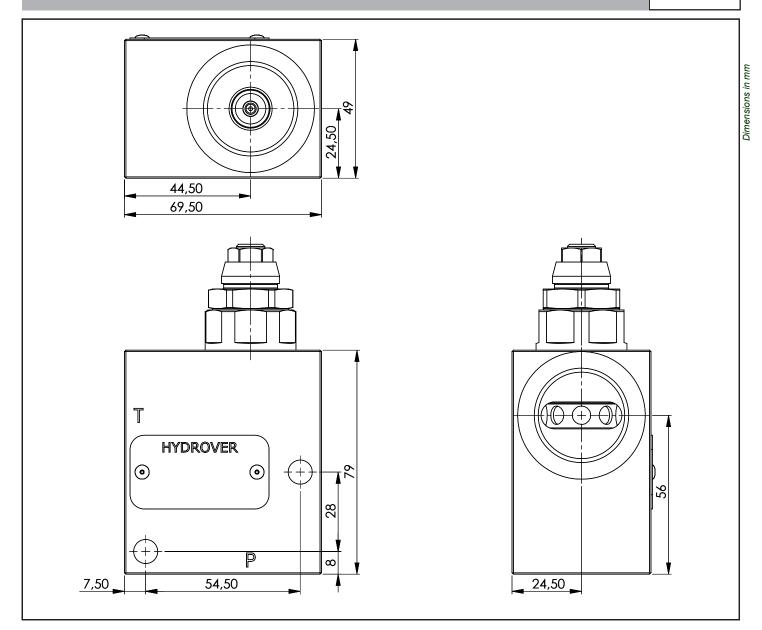




^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H17089S.

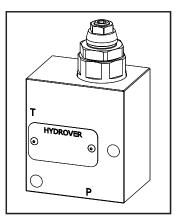


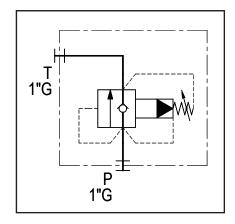
Inline relief valve and anti-cavitation / P-T 1" G / 200 lpm H17119



Technical data	
Max. pressure	350 bar
Max. flow	200 lt/1 *
Weight	1,8 Kg
Manifold material	Steel
P / T ports	1" G

HYDROVER

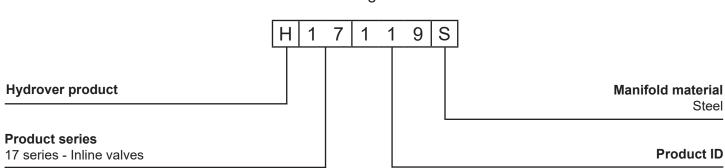




N°	Description	Q.ty
	Bosch Rexroth relief valve and anti-cavitation VMR2.240.NG.320 100-420 bar (similar to the VMR2.240. NG.000 but with NBR seals and zinc plated body)*	1
2	Ø 8,5 through hole for mounting	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

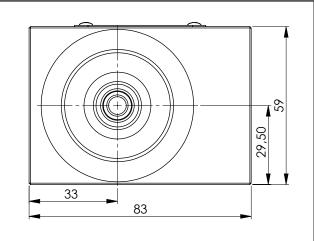


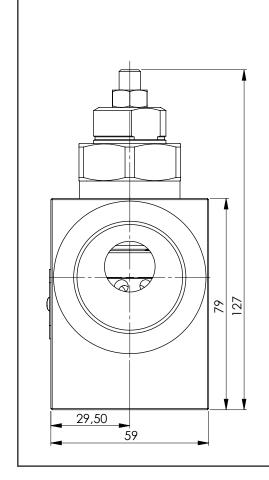


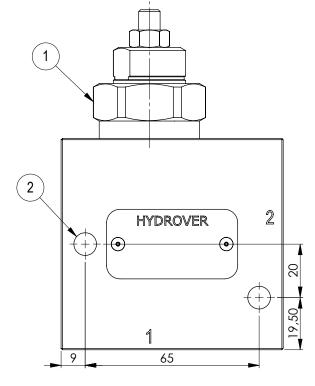


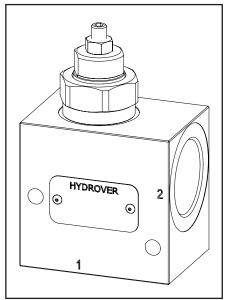
Inline relief valve / P-T 1"1/4 G / 250 lpm H17107

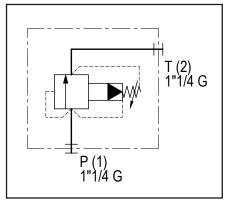
Technical data	
Max. pressure	350 bar
Max. flow	250 lpm *
Weight	2,6 Kg
Manifold material	Steel
P (1) / T (2) ports	1"1/4 G







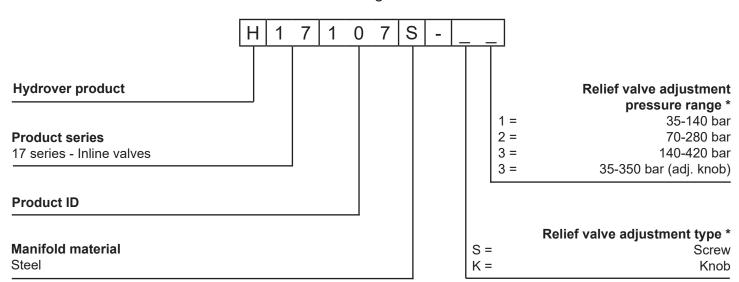




N°	Description	Q.ty
1	Bosch Rexroth relief valve VSPN-16A depicted with screw adjustment *	1
2	Ø 8,5 through hole for mounting	2

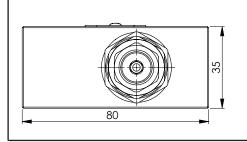
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue





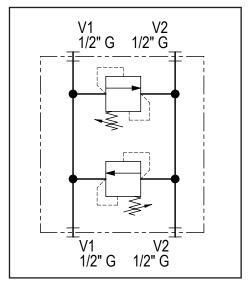
^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H17107S.

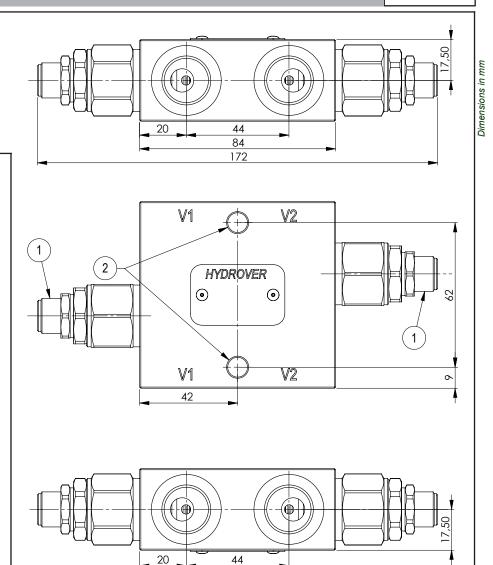
Inline relief valve double effect crossing V1 V2 ports 1/2" G / 40 lpm H17063

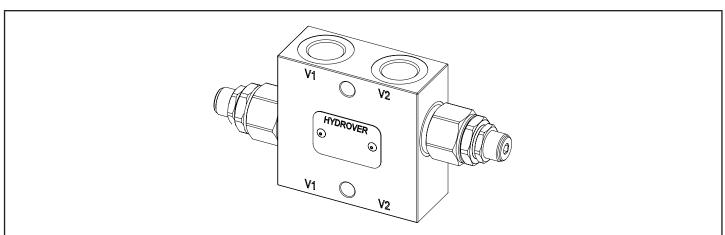


HYDROUER

Technical data	
Max. pressure	250 bar
Max. flow	40 lt/1 *
Weight	0,9 Kg
Manifold material	Aluminium
V1 / V2 ports	1/2" G



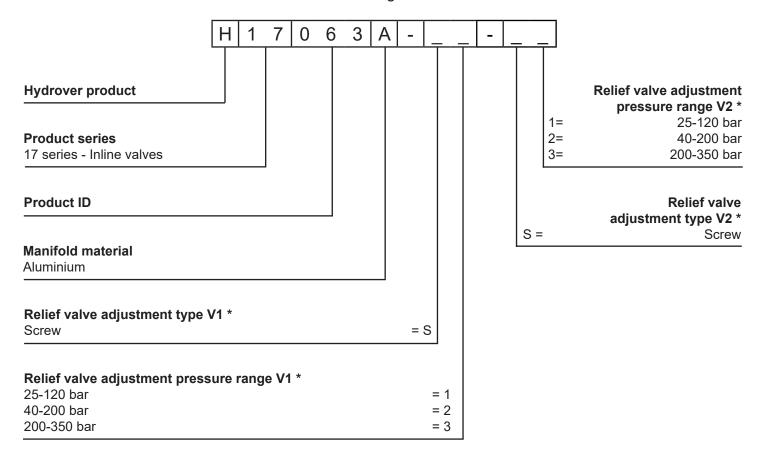




N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.040 *	2
2	Ø 8,5 through hole for mounting	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

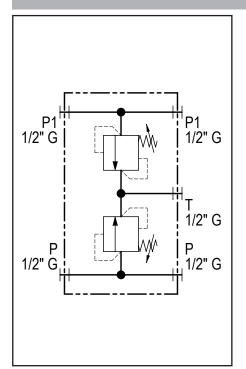


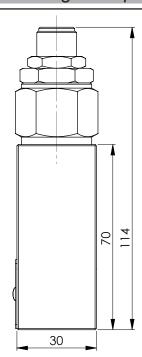


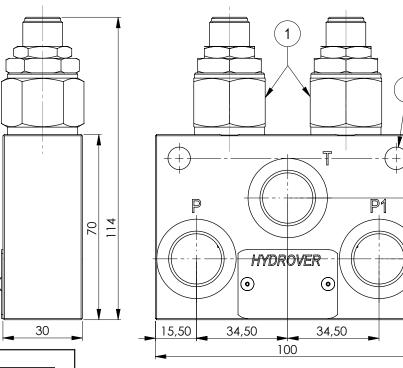
^{*} Omit if not required. To order the product without the pressure relief cartridge valves, omit the pressure range and the adjustment type options: H17063A.

Inline relief valve double effect crossing P-P1 ports and T port 1/2" G / 70 lpm

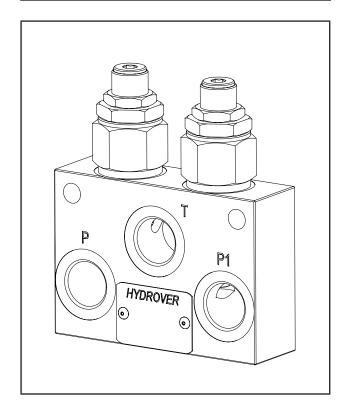
23

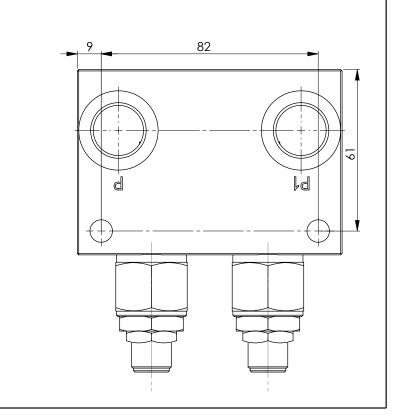






Technical data	
Max. pressure	250 bar
Max. flow	70 lpm *
Weight	0,8 Kg
Manifold material	Aluminium
P / P1 / T ports	1/2" G

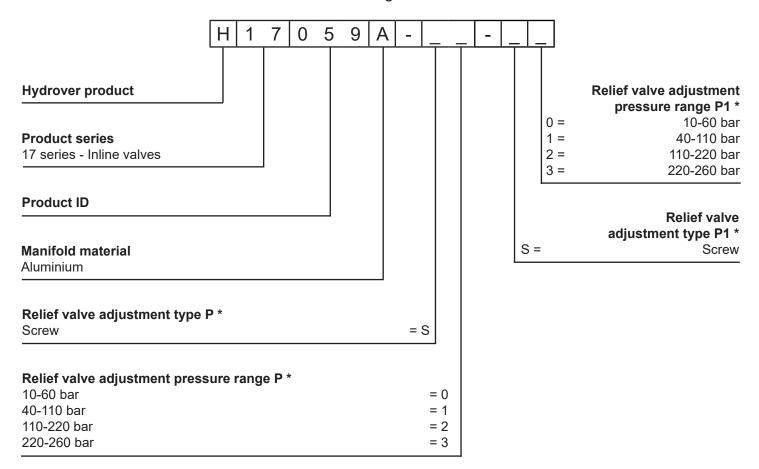




N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.070 *	2
2	Ø 8,5 through hole for mounting	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

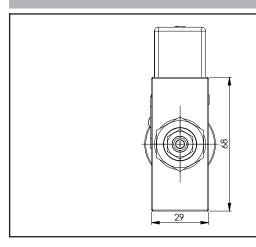




^{*} Omit if not required. To order the product without the pressure relief cartridge valves, omit the pressure range and the adjustment type options: H17059A.

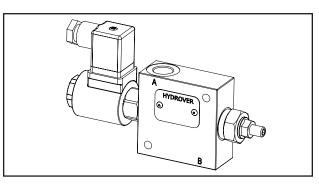


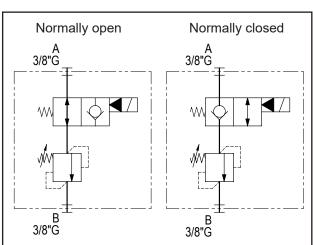
Inline relief valve electrically enabled / A-B 3/8" G / 20 lpm H17129

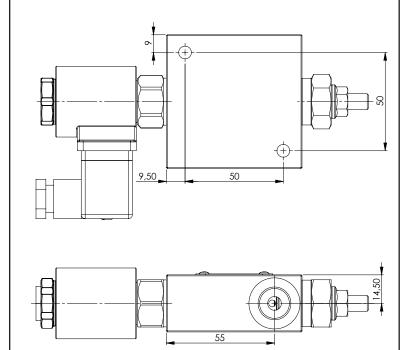


A HYDROVER © ©
B
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Technical data		
Max. pressure	250 bar	
Max. flow	20 lpm *	
Weight	0,77 Kg	
Manifold material	Aluminium	
A / B ports	3/8" G	







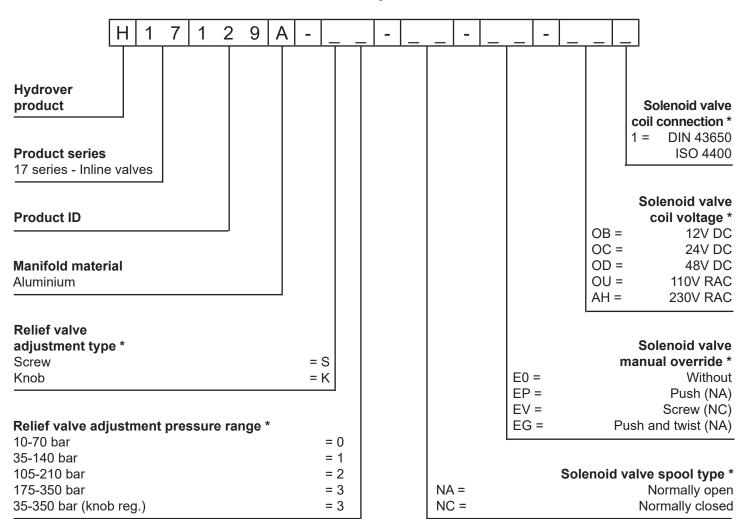
N°	Description	Q.ty
1	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
2	Connector DIN 43650 ISO 4400	1
3	Bosch Rexroth solenoid valve VEI-16 OD.15.05.18-Y-000000 (normally closed) o VEI-16 OD.15.06.18-Y-000000 (normally open) depicted without manual override *	1
4	Ø 6,5 through hole for mounting	2
5	Bosch Rexroth relief valve VSBN-08A *	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Inline valves 17 SERIES

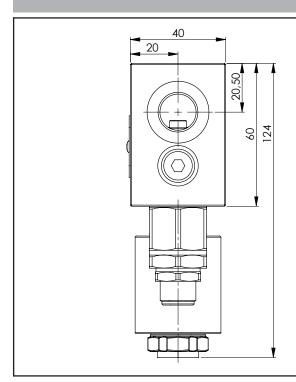
Ordering code



^{*} Omit if not required. For example, to order the product without the solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H17129A-S2.

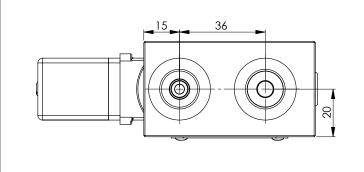


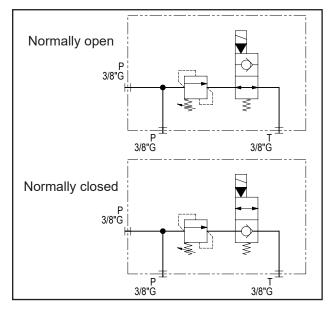
Inline relief valve electrically enabled / A-B 3/8" G / 30 lpm H17086

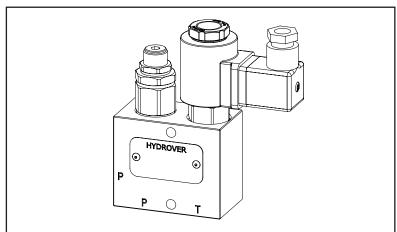


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4	HYDROVER
(2) (3)	

Technical data	
Max. pressure	250 bar
Max. flow	30 lpm *
Weight	0,86 Kg
Manifold material	Aluminium
P / T ports	3/8" G







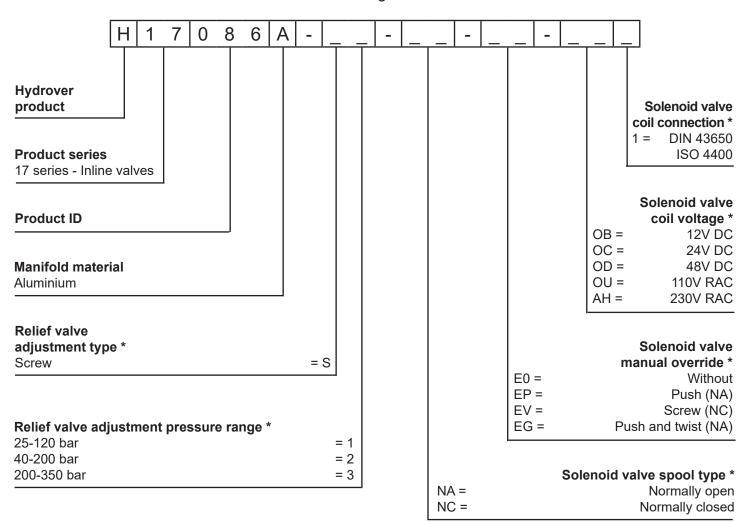
N°	Description	Q.ty
1	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
2	Connector DIN 43650 ISO 4400	1
3	Bosch Rexroth solenoid valve VEI-16 OD.15.05.18-Y-000000 (normally closed) o VEI-16 OD.15.06.18-Y-000000 (normally open) depicted without manual override *	1
4	Ø 6,5 through hole for mounting	2
5	Bosch Rexroth relief valve VMD1.025 *	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



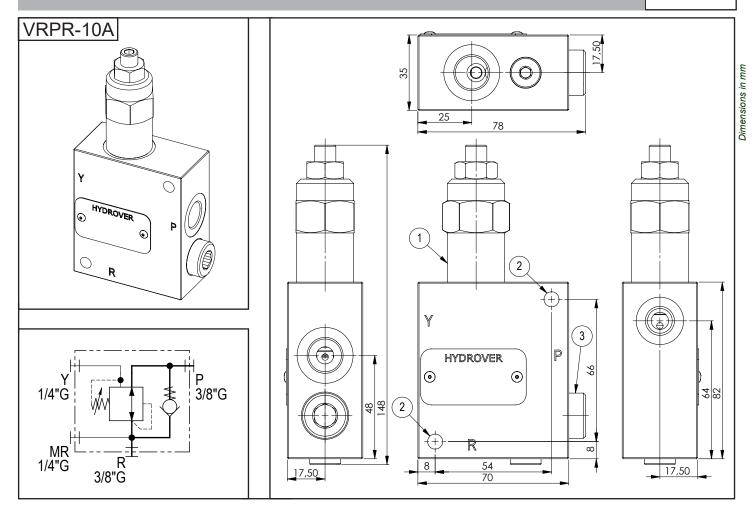
Inline valves 17 SERIES

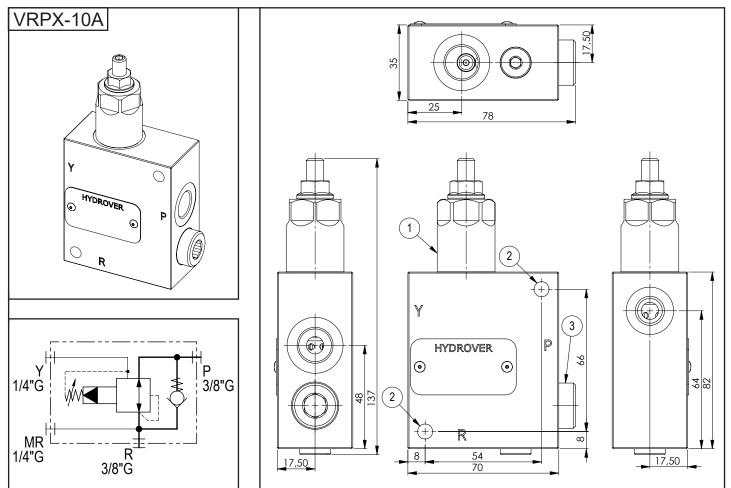
Ordering code



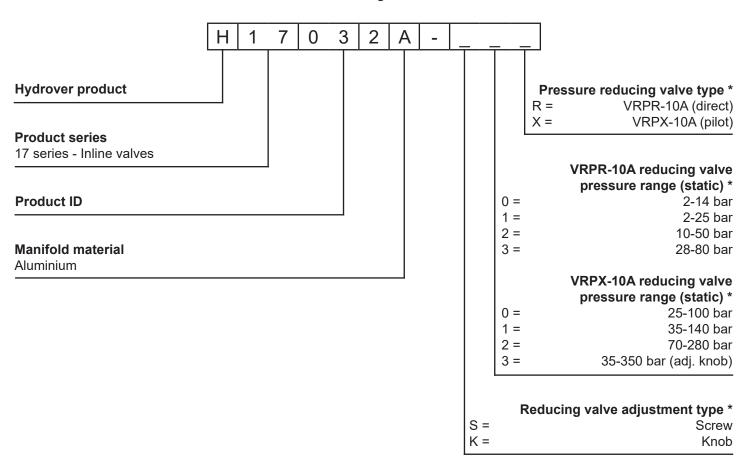
^{*} Omit if not required. For example, to order the product without the solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H17086A-S2.

Inline pressure reducing valve with check valve / 3/8" G H17032









^{*} Omit if not required. To order the product without the pressure reducing cartridge valve, omit the valve adjustment type, valve pressure range and valve type options: H17032A.

The manifold will still be provided with the corrisponding cavity.

N°	Description	Q.ty
1	Bosch Rexroth reducing valve VRPR-10A o VRPX-10A * depicted with screw adjustment	1
2	Ø 7 through hole for mounting	2
3	Bosch Rexroth check valve 0TU602009900000	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

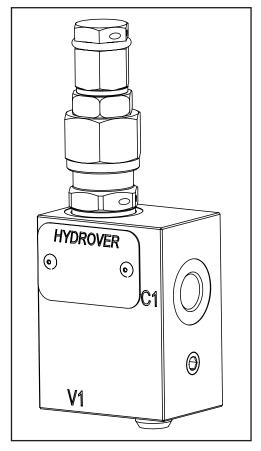
Technical data	
Max. pressure	250 bar
Max. flow with VRPR-10A	25 lpm *
Max. flow with VRPX-10A	55 lpm *
Weight	0,75 Kg
Manifold material	Aluminium
MR / Y ports	1/4" G
P / R ports	3/8" G

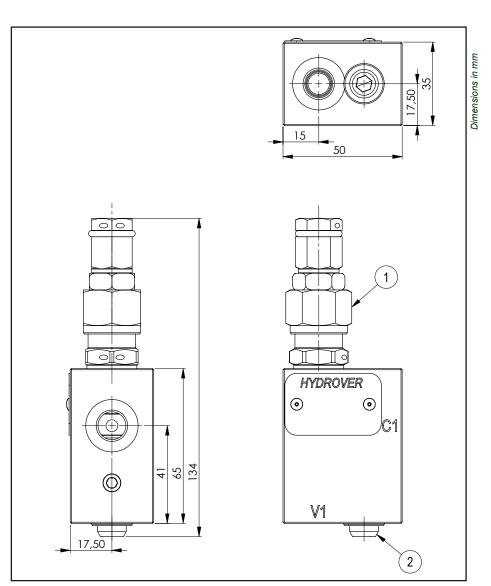


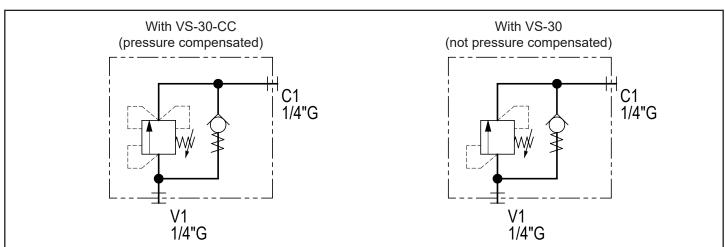
Inline sequence valve / 1/4" G / 30 lpm H17071

Technical data	
Max. pressure	250 bar
Max. flow	30 lpm *
Weight	0,5 Kg
Manifold material	Aluminium

HYDROVER



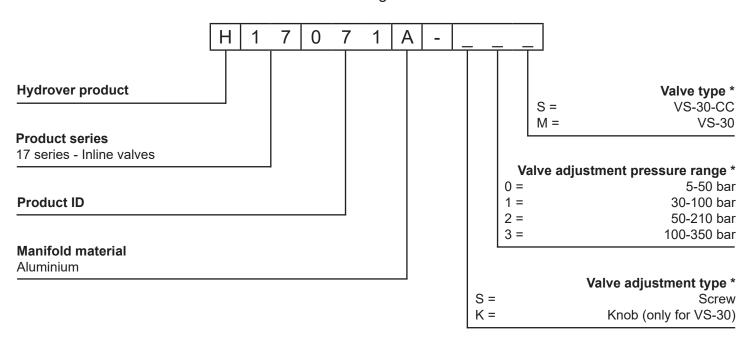




N°	Description	Q.ty
	Bosch Rexroth pressure compensated valve VS-30-CC * (as depicted). It's possibile to use a Bosch Rexroth non pressure compensated valve VS-30 * in case it is acceptable to add to the set pressure the pressure necessary for the second branch.	1
2	Bosch Rexroth check valve	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



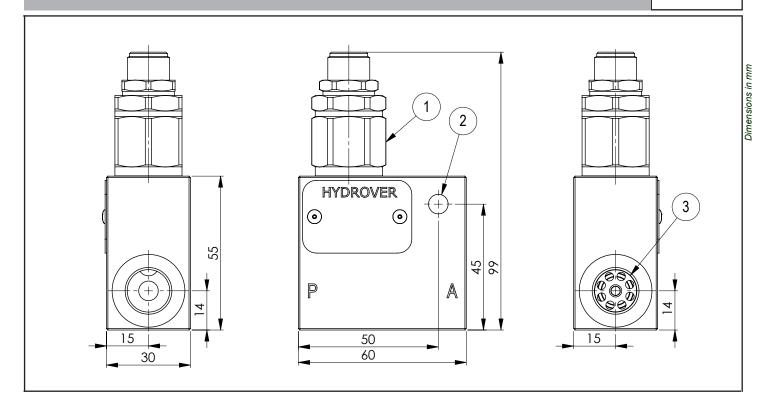


^{*} Omit if not required. To order the product without the cartridge valve, omit the adjustment type, valve pressure range and valve type options: H17071A.

General catalogue

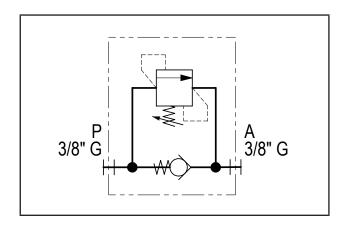
Inline sequence valve / Opposite 3/8" G / 25 lpm H17158

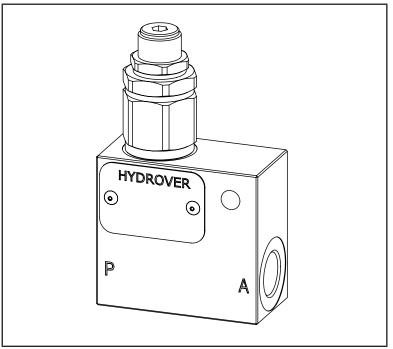




Technical data		
Max. pressure	250 bar	
Max. flow	25 lpm *	
Weight	0,37 Kg	
Manifold material	Aluminium	
P / A ports	3/8" G	

HYDROVER

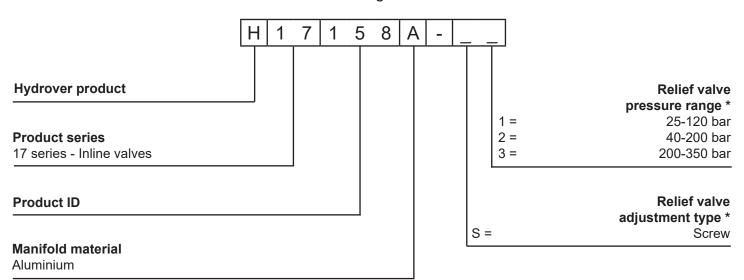




N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.025 *	1
2	Ø 7 through hole for mounting	1
3	Check valve	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

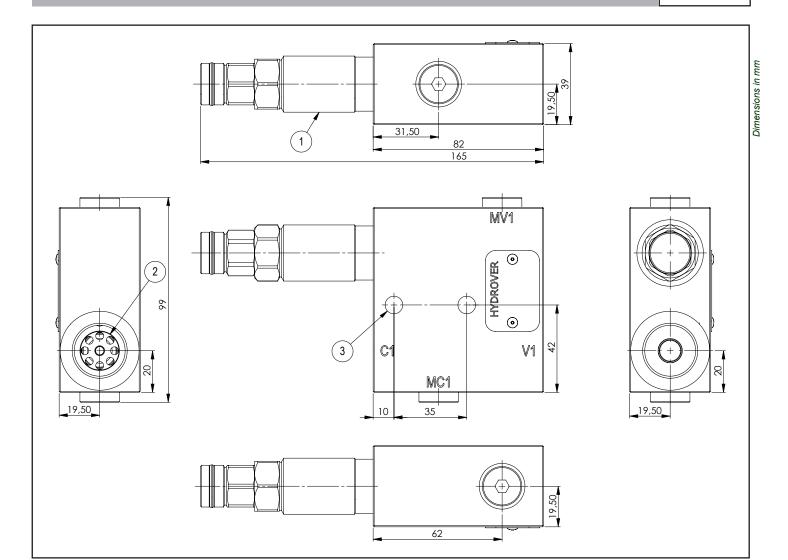




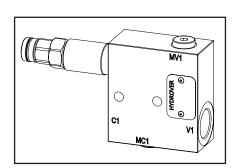
^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H17158A.

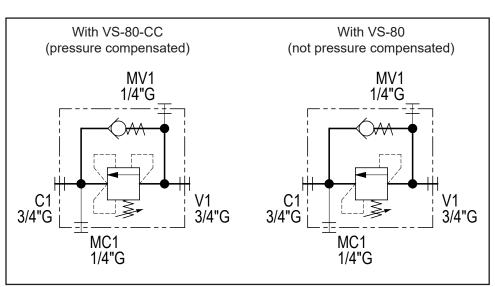
HYDROUER

Inline sequence valve / Opposite 3/4" G / 80 lpm H17056



Technical data			
Max. pressure	250 bar		
Max. flow	80 lpm *		
Weight	1,1 Kg		
Manifold material	Aluminium		

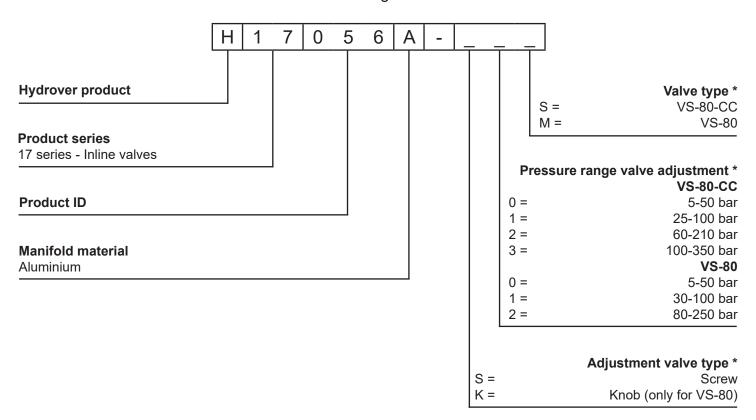




N°	Description	Q.ty
1	Pressure compensated valve VS-80-CC (depicted) or Bosch Rexroth non pressure compensated valve VS-80 * It's possibile to use a Bosch Rexroth non pressure compensated valve VS-80 * in case it is acceptable to add to the set pressure the pressure necessary for the second branch.	1
2	Bosch Rexroth check valve	1
3	Ø 8,5 through hole for mounting	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

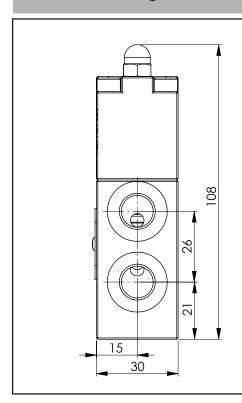




^{*} Omit if not required. To order the product without the cartridge valve, omit the adjustment type, valve pressure range and valve type options: H17056A.

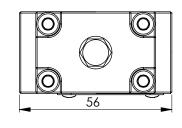


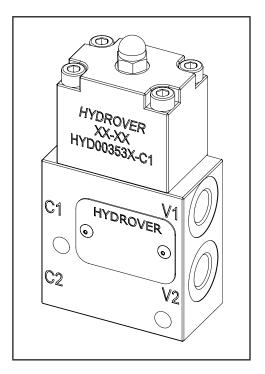
Inline single counterbalance valve in stainless steel / 1/4" G / 25 lpm H17150

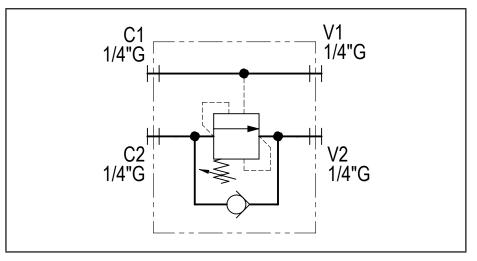


HYDROVER XX-XX HYD00353X-C1	
C1 HYDROVER V2 C2 8 40	15

Technical data		
Max. pressure 350 bar		
Max. flow	25 lpm	
Weight	1,1 Kg	
Manifold material	Stainless steel 316L	
All ports	1/4" G	

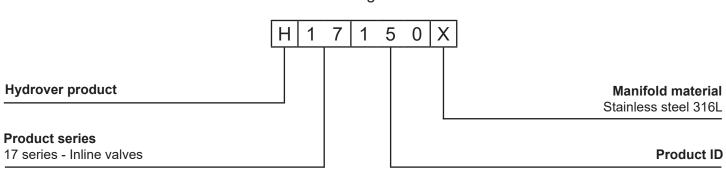




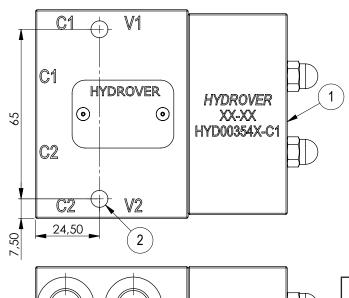


N°	Description	Q.ty
1	Counterbalance valve HCOM02-S3 100-350 bar 4:1 pilot ratio under cap	1
2	Ø 6,5 through hole for mounting	2

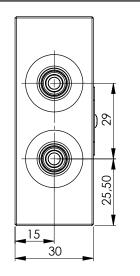




Inline dual counterbalance valve in stainless steel / 1/4" G / 25 lpm H17151

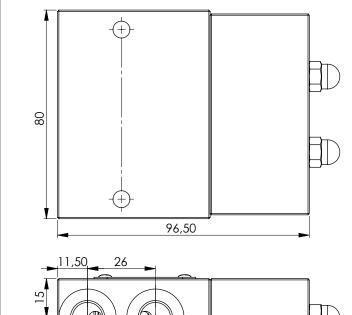


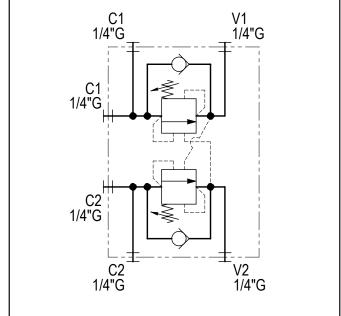
HYDROVER

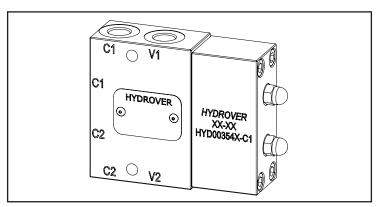


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Technical data			
Max. pressure	350 bar		
Max. flow	25 lpm		
Weight	1,7 Kg		
Manifold material	Stainless steel 316L		
C1 / C2 / V1 / V2 ports	1/4" G		
2 4	3.44		

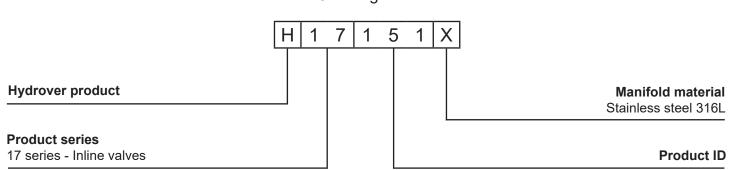




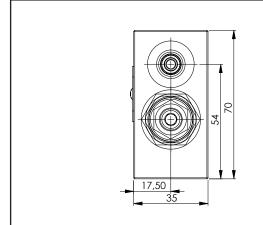


N°	Description	Q.ty
1	Counterbalance valve HCOM02-S3 100- 350 bar 4:1 pilot ratio under cap	2
2	Ø 6,5 through hole for mounting	2





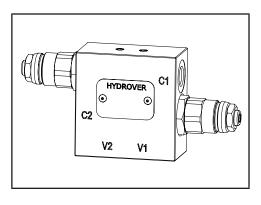
Inline valve dual counterbalance / 1/4" G / 25 lpm H17037

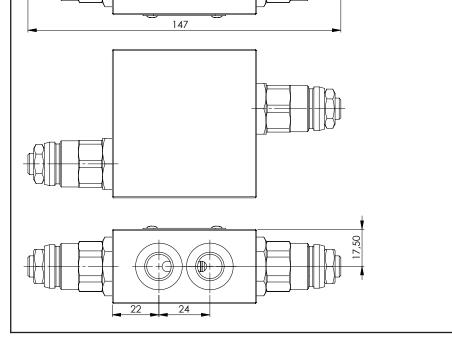


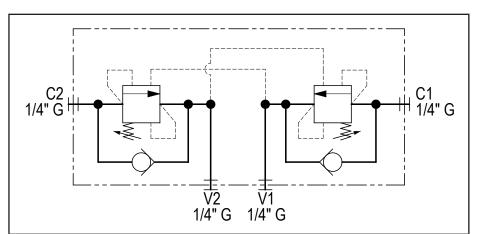
HYDROVER

1	HYDRO ©	C1 OVER O	
	V2	V1	
	68	-	

Technical data			
Max. pressure	250 bar		
Max. flow	25 lpm *		
Pilot ratio	4:1		
Weight	0,8 Kg		
Manifold material	Aluminium		
C1 / C2 / V1 / V2 ports	1/4" G		



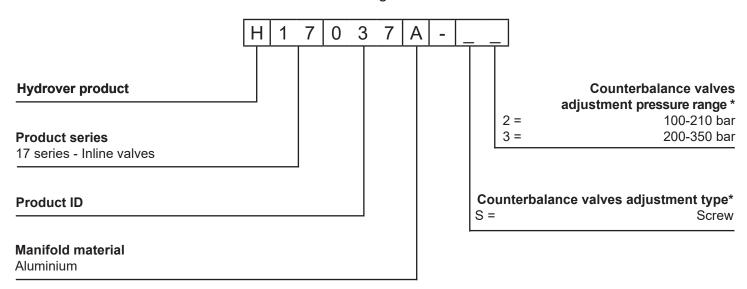




N°	Description	Q.ty
1	Bosch Rexroth counterbalance valve VBSN-08AA *	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue





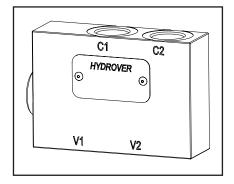
^{*} Omit if not required. To order the product without the counterbalance cartridge valves, omit the pressure range and the adjustment type options: H17037A.

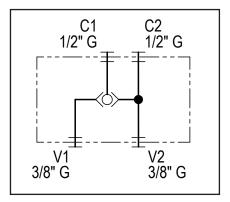


Inline regenerative control valve 3/8" G / 1/2" G H17073

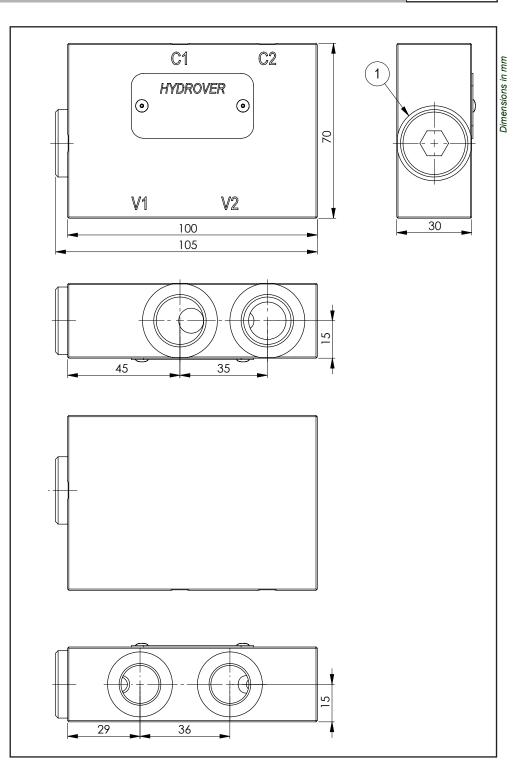
Technical data		
Max. pressure	350 bar	
Max. flow input	25 lpm	
Max. flow regenerated	50 lpm	
Weight	1,4 Kg	
Manifold material	Steel	
V1 / V2 / T ports	3/8" G	
C1 / C2 / T ports	1/2" G	

HYDROUER

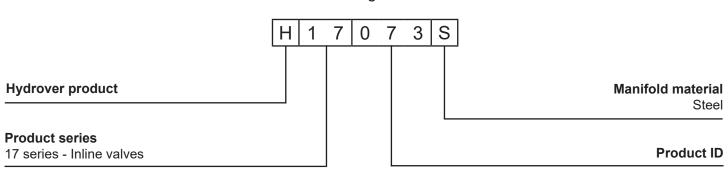


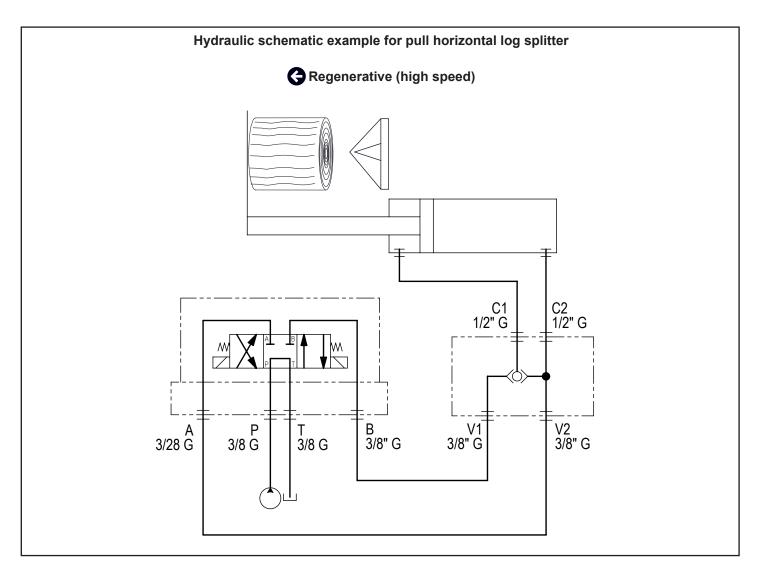


N°	Description	Q.ty	
1	Shuttle valve under	1	
	1/2" G plug		



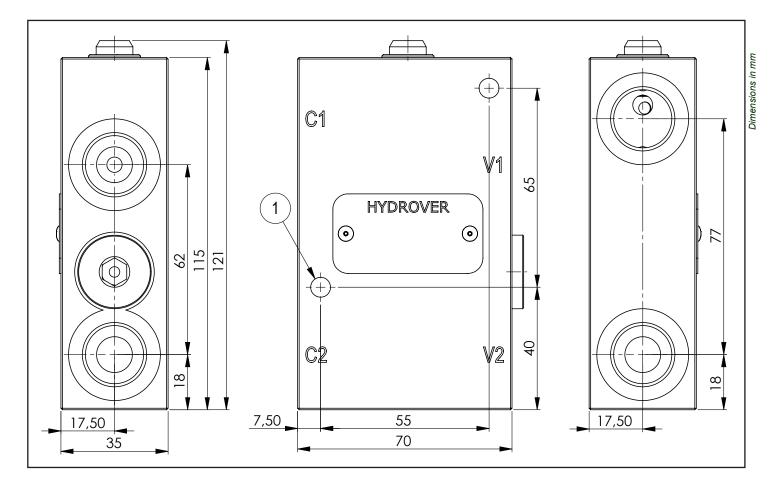






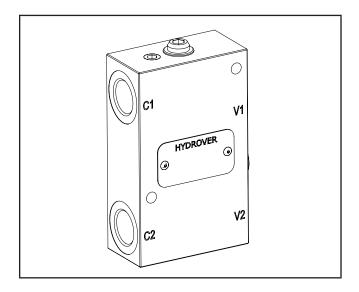
HYDROVER

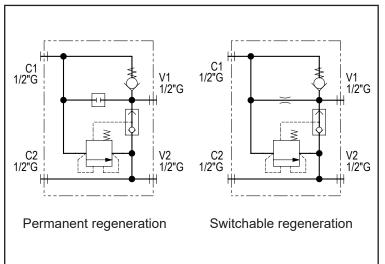
Inline permanent or switchable regenerative control valve 1/2" G H17095



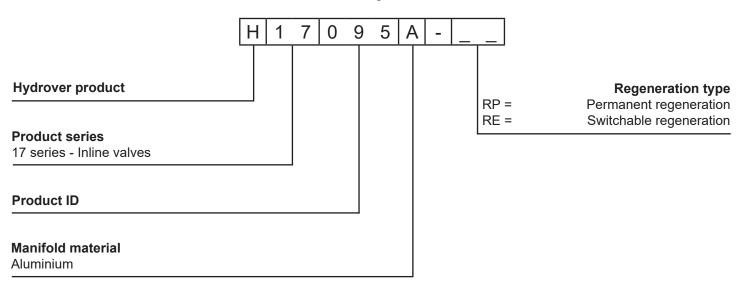
Technical data		
Max. pressure	250 bar	
Max. flow pump	30 lpm	
Max. flow regenerated oil	About 90 lpm	
Weight	0,9 Kg	
Manifold material	Aluminium	
C1 / C2 / V1 / V2 ports	1/2" G	

N	l°	Description	Q.ty
1	1	Ø 6,5 through hole for mounting	2







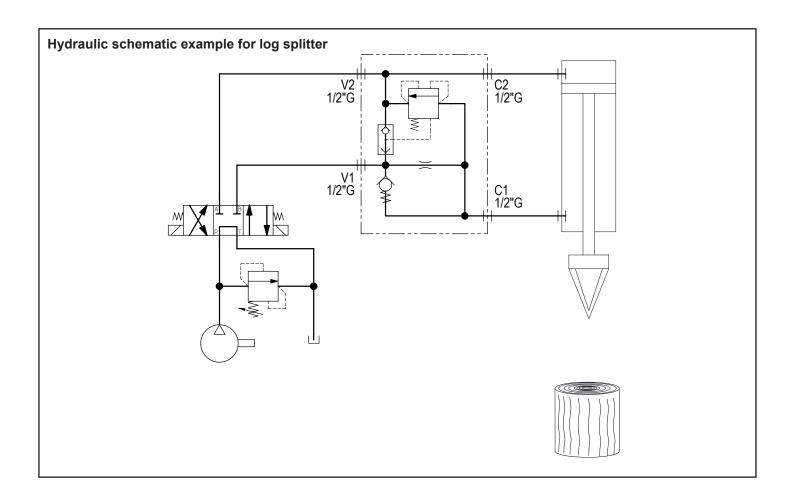


Note:

The regenerative system increases the speed but reduces the strength of the cylinder, since the oil pressure is only exerted on the rod section.

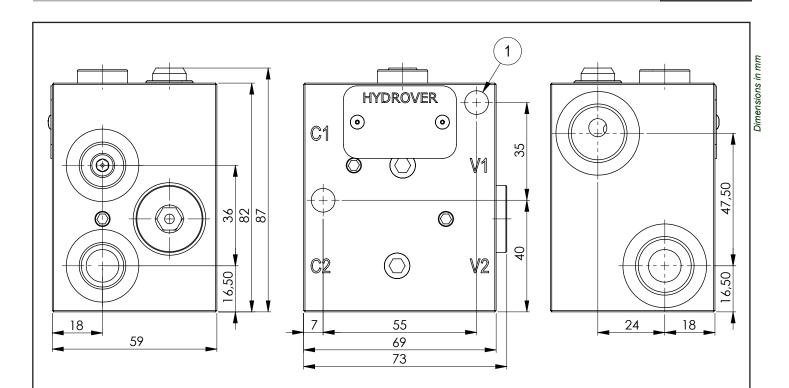
With the permanent regeneration, if the strength is insufficient, the movement will stop. With the switchable regeneration the orifice leakage will allow the piston rod chamber to relieve the pressure and then the oil pressure will be exercised on the full section of the cylinder.

Before opting for the switchable regeneration, it is recommended to check whether this increase in strength can be sustained by the machine facilities.



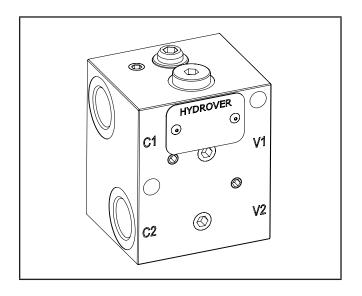
HYDROVER

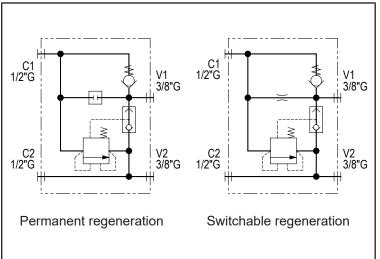
Inline permanent or switchable regenerative control valve 3/8"G - 1/2" G H17096



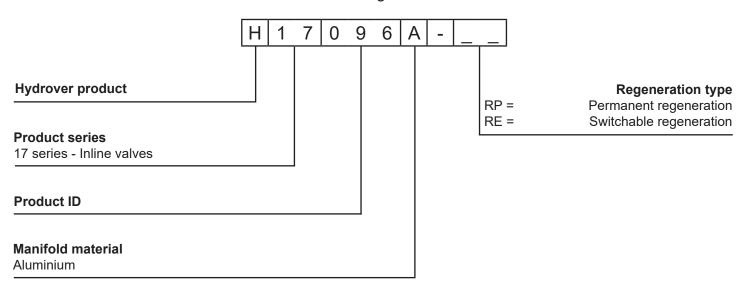
Technical data		
Max. pressure	250 bar	
Max. flow pump	30 lpm	
Max. flow regenerated oil	About 90 lpm	
Weight	1 Kg	
Manifold material	Aluminium	
V1 / V2 ports	3/8" G	
C1 / C2 ports	1/2" G	

N°	Description	
1	Ø 8,5 through hole for mounting	2







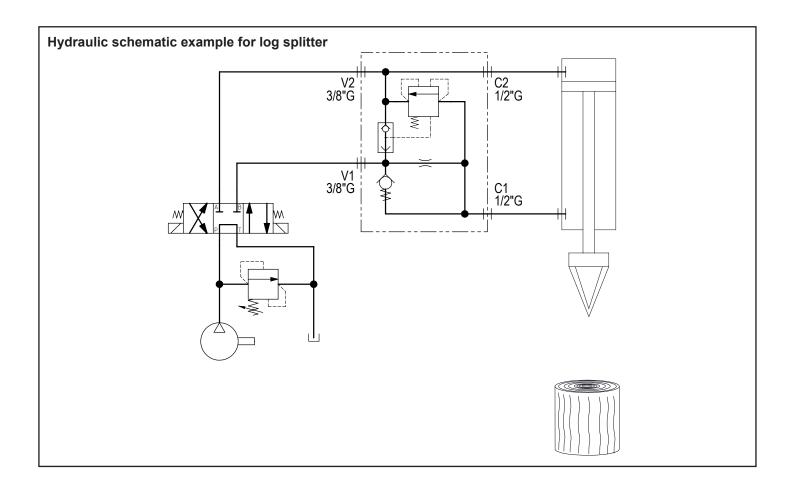


Note:

The regenerative system increases the speed but reduces the strength of the cylinder, since the oil pressure is only exerted on the rod section.

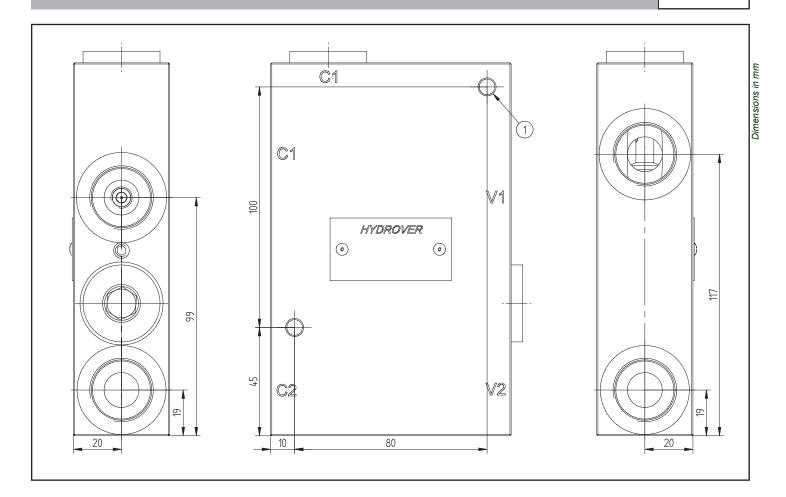
With the permanent regeneration, if the strength is insufficient, the movement will stop. With the switchable regeneration the orifice leakage will allow the piston rod chamber to relieve the pressure and then the oil pressure will be exercised on the full section of the cylinder.

Before opting for the switchable regeneration, it is recommended to check whether this increase in strength can be sustained by the machine facilities.



Inline permanent or switchable regenerative control valve 3/4" G H17009

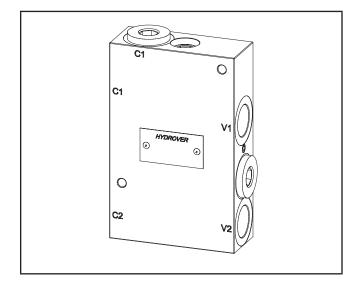


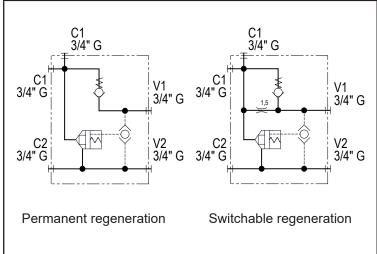


Technical data		
Max. pressure	350 bar	
Max. flow pump	80 lpm	
Max. flow regenerated oil	About 150 lpm	
Weight	4,1 Kg	
Manifold material	Steel	
C1 / C2 / V1 / V2 ports	3/4" G	

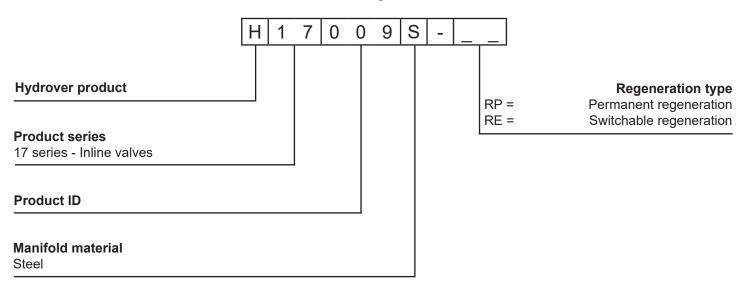
HYDROVER

N°	Description	
1	Ø 6,5 through hole for mounting	2







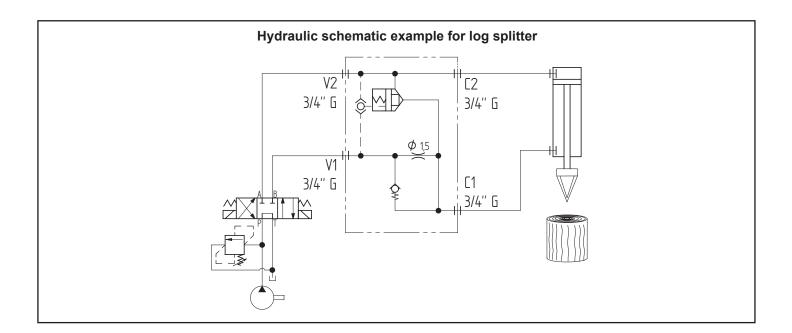


Note:

The regenerative system increases the speed but reduces the strength of the cylinder, since the oil pressure is only exerted on the rod section.

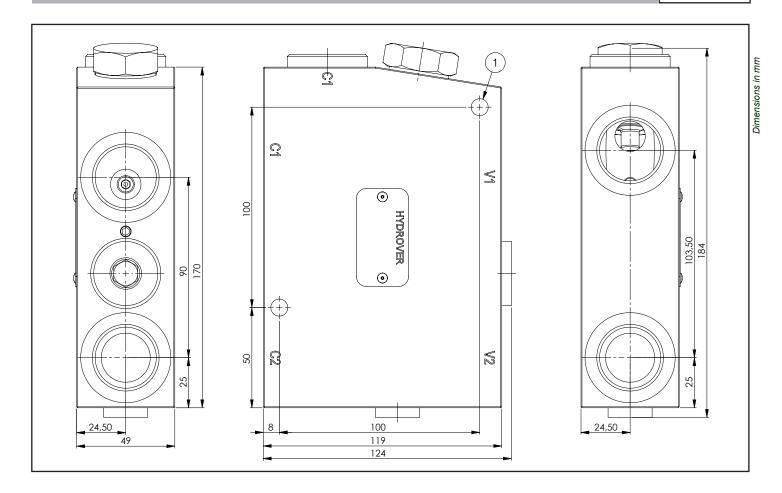
With the permanent regeneration, if the strength is insufficient, the movement will stop. With the switchable regeneration the orifice leakage will allow the piston rod chamber to relieve the pressure and then the oil pressure will be exercised on the full section of the cylinder.

Before opting for the switchable regeneration, it is recommended to check whether this increase in strength can be sustained by the machine facilities.



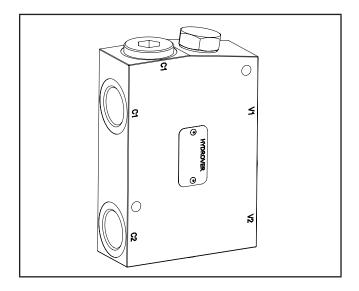
Inline permanent or switchable regenerative control valve 1" G H17075

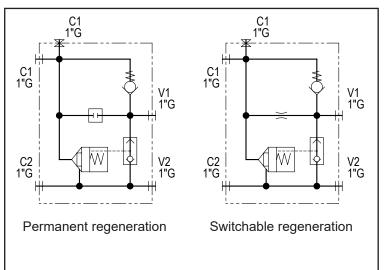




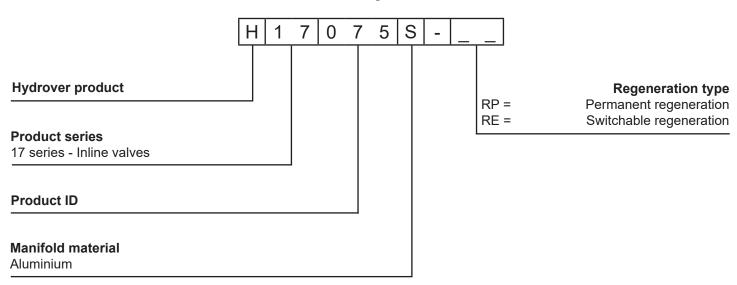
Technical data		
Max. pressure	250 bar	
Max. flow pump	120 lpm	
Max. flow regenerated oil	About 200 lpm	
Weight	5,8 Kg	
Manifold material	Steel	
C1 / C2 / V1 / V2 ports	1" G	

N°	Description	
1	Ø 8,5 through hole for mounting	2







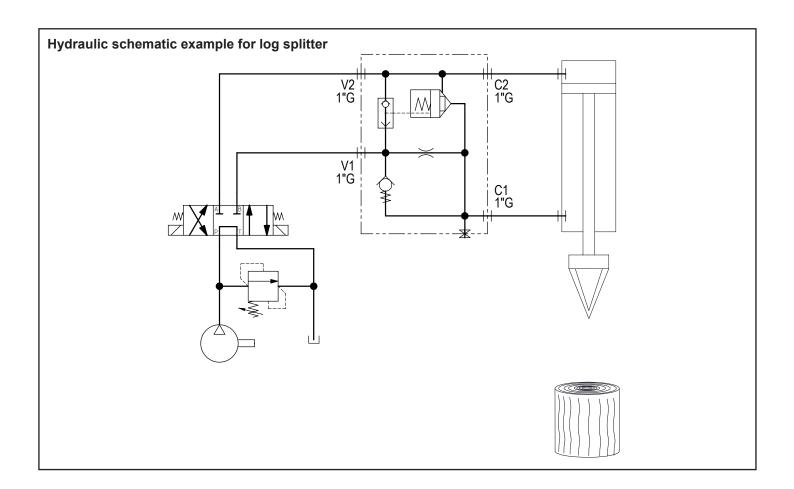


Note:

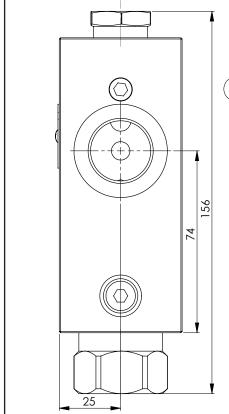
The regenerative system increases the speed but reduces the strength of the cylinder, since the oil pressure is only exerted on the rod section.

With the permanent regeneration, if the strength is insufficient, the movement will stop. With the switchable regeneration the orifice leakage will allow the piston rod chamber to relieve the pressure and then the oil pressure will be exercised on the full section of the cylinder.

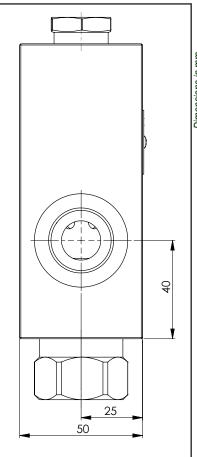
Before opting for the switchable regeneration, it is recommended to check whether this increase in strength can be sustained by the machine facilities.



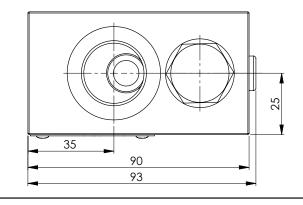
Quick unloading inline valve H17024

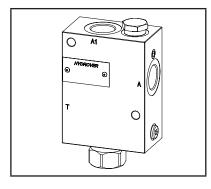


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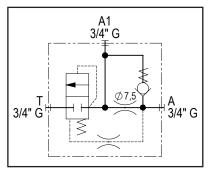


Technical data		
Max. pressure	350 bar	
Max. flow A (input)	60 lpm	
Max. flow A1 (output)	120 lpm	
Weight	3,9 Kg	
Manifold material	Steel	
A / A1 / T ports	3/4" G	

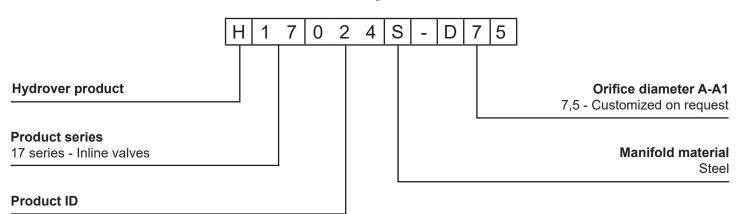


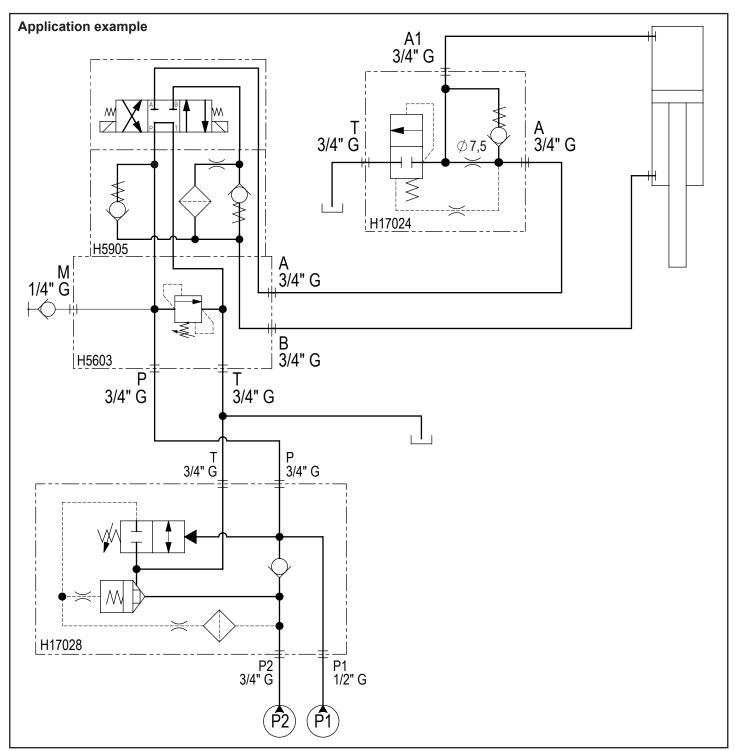


N°	Description (
1	1 Ø 8,5 through hole for mounting	
2	2 Bosch Rexroth check valve	
3	3 Pressure compensator	

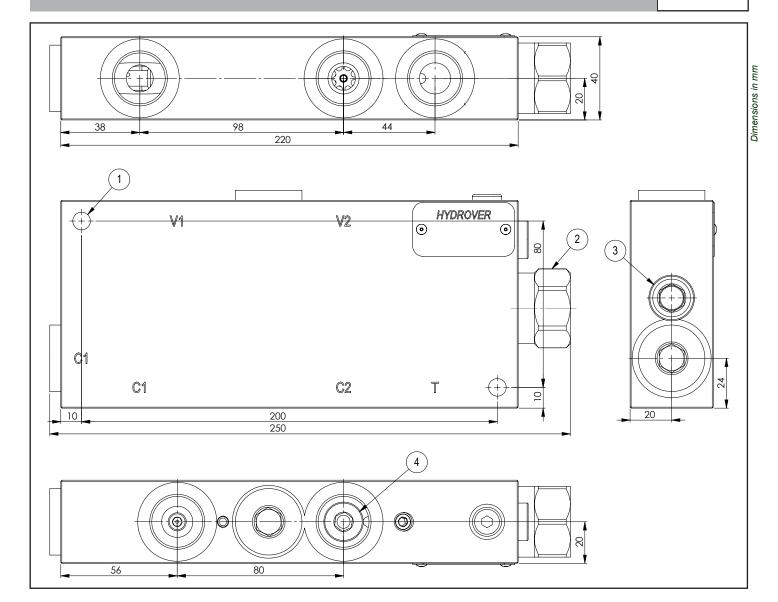






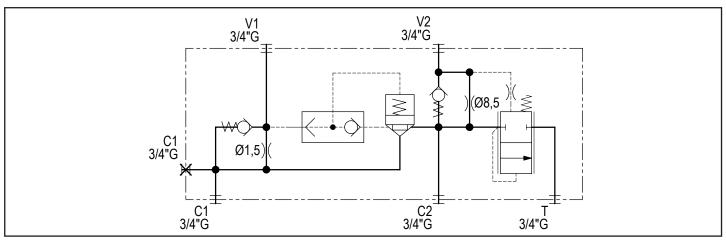


Regenerative and quick unloading inline valve H17062

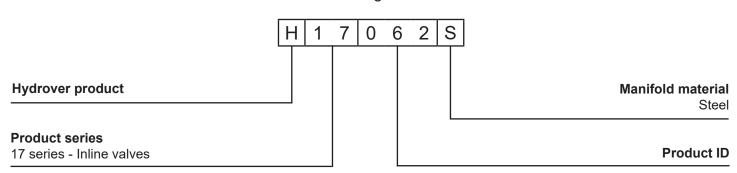


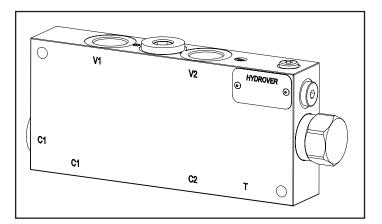
Technical data		
Max. pressure	350 bar	
Max. flow input - regenerated	80 lpm - 150 lpm	
Max. flow output	170 lpm	
Weight	6 Kg	
Manifold material	Steel	
C1 / C2 / V1 / V2 / T ports	3/4" G	

N°	Description	
1	Ø 8,5 through hole for mounting 2	
2	Pressure compensator 1	
3	Bosch Rexroth check valve VUM1.060 1	
4	Bosch Rexroth check valve VUB1-12	1







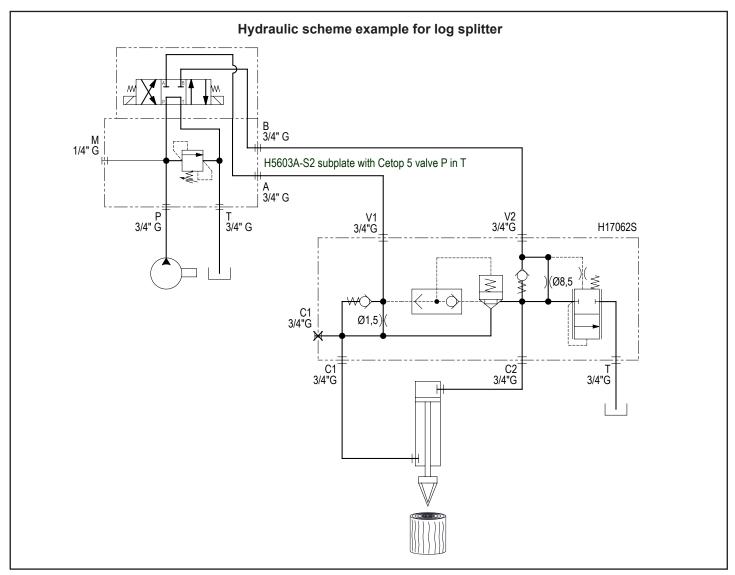


Note:

From the cylinder cap the output flow is major than the input.

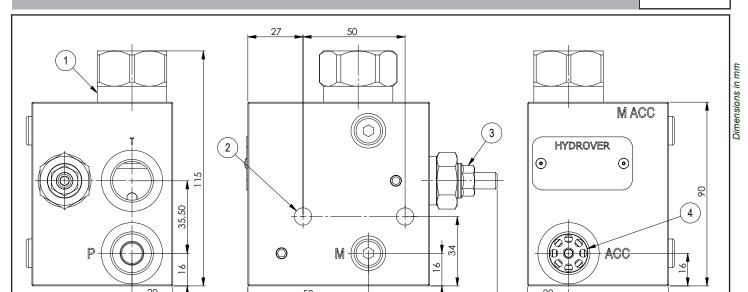
For example if the input is 80 lpm and the area cylinder ratio is 1:2, the output flow will be 160 lpm.

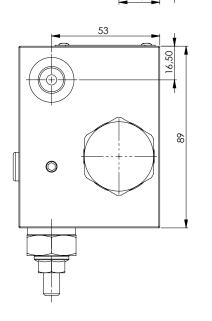
The quick unloading function from the H17062S allows you to dispose of 90 lpm in addition to those unloaded by the directional valve, for a maximum total flow rate of 170 lpm.

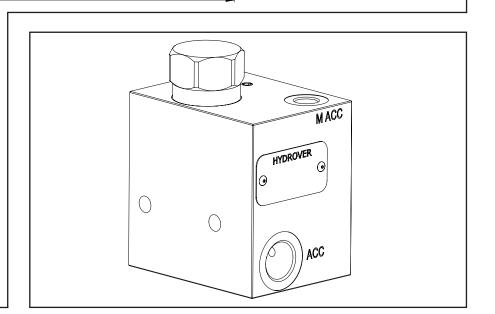


HYDROVER

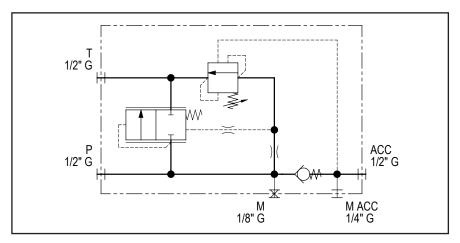
Unloading inline valve for accumulator H17093







Technical data		
Max. pressure	250 bar	
Max. flow	60 lpm	
Weight	1,8 Kg	
Manifold material	Aluminium	
M port	1/8" G	
M ACC port	1/4" G	
P / T / ACC ports	1/2" G	

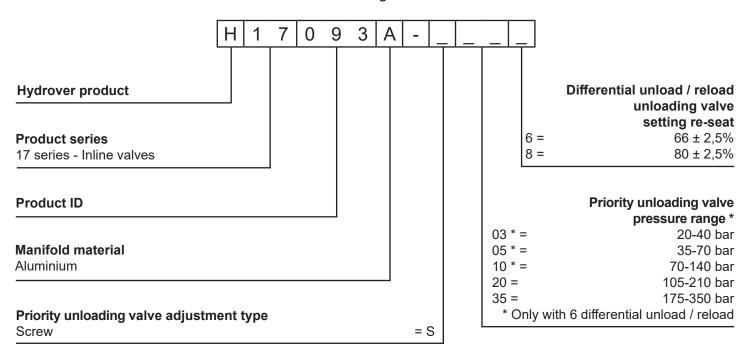


N°	Description	Q.ty
1	Logic element	1
2	Ø 8,5 through hole for mounting	2
3	Bosch Rexroth priority unloading pilot operated valve VMSN-08A *	1
4	Check valve	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



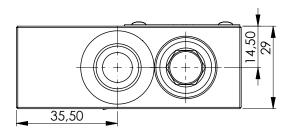
Inline valves 17 SERIES H17093

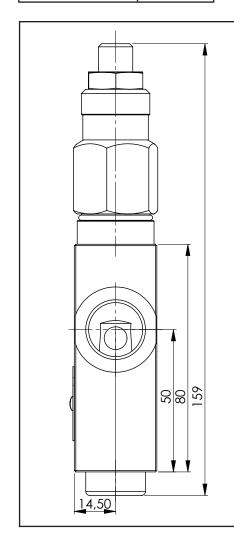


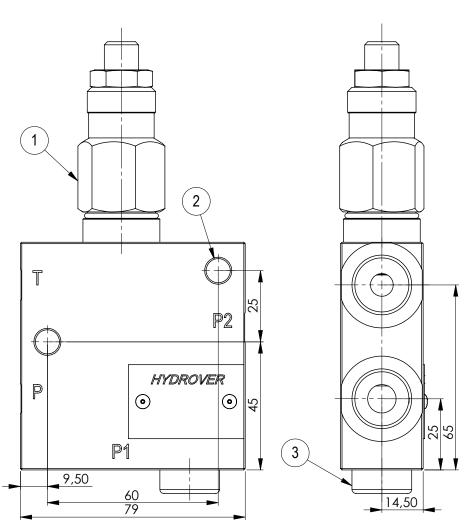
Inline pump bypass / 40 lpm H17027

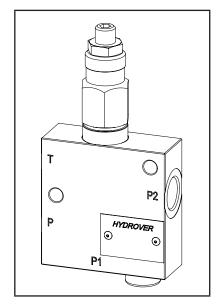
Technical data		
Max. pressure	350 bar	
Max. flow	40 lpm	
Weight	1,1 Kg	
Manifold material	Steel	
P1 port	3/8" G	
P / P2 / T ports	1/2" G	

HYDROVER

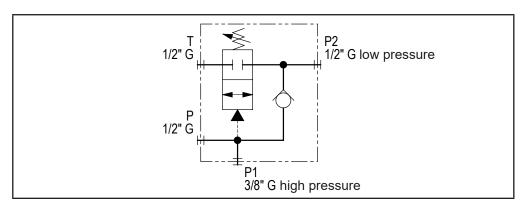




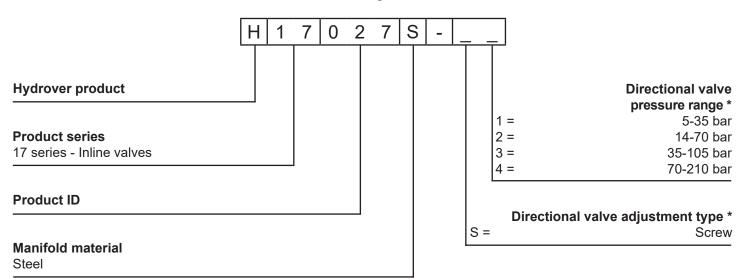




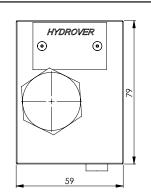
N°	Description	Q.ty
1	Directional valve normally closed	1
2	Ø 8,5 through hole for mounting	2
3	Bosch Rexroth check valve VUM1.060	1

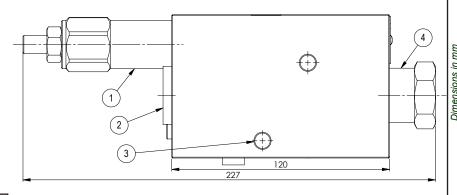




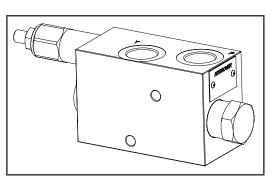


Inline pump bypass / 150 lpm H17028

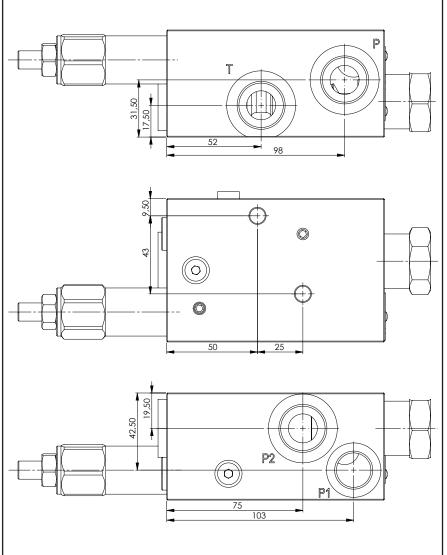


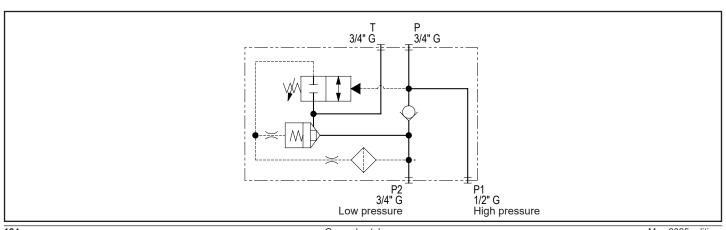


Technical data		
Max. pressure 350 bar		
Max. flow	150 lpm	
Weight	4 Kg	
Manifold material	Steel	
P1 port	1/2" G	
P / P2 / T ports	3/4" G	

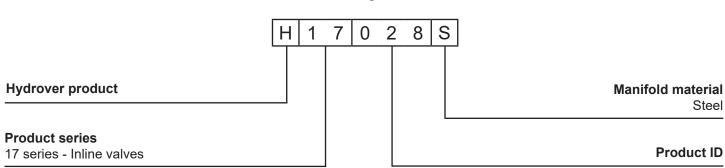


N°	Description	Q.ty
1	Directional valve normally closed 20-180 bar	1
2	Hydrover logic element	1
3	Ø 8,5 through hole for mounting	2
4	Bosch Reyroth check valve	1







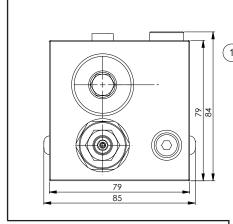


Inline pump bypass / 200 lpm H17160

245

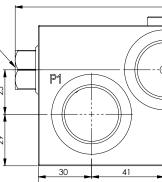
H17160S HYDROVER XX-XX HYD0015222S





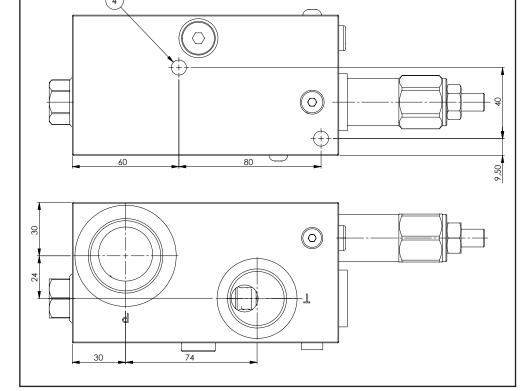
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	29
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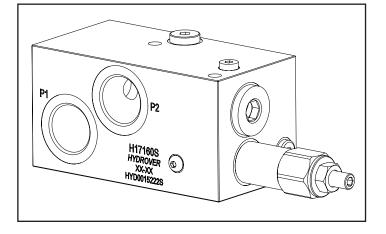


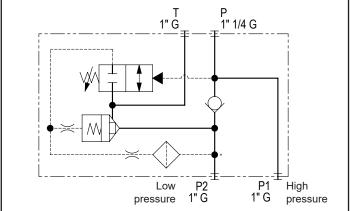


Technical data		
Max. pressure	350 bar	
Max. flow	200 lpm	
Weight	6,37 Kg	
Manifold material	Steel	
P1 / P2 / T ports	1" G	
P port	1"1/4 G	

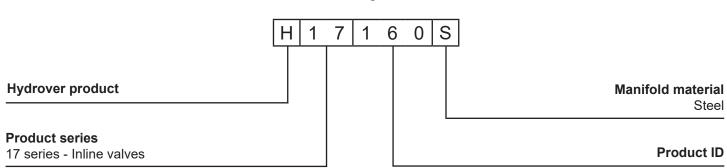
N°	Description	Q.ty
1	Check valve	1
2	Hydrover logic element	1
3	Directional valve normally closed 20- 180 bar	
4	Ø 8,5 through hole for mounting	2





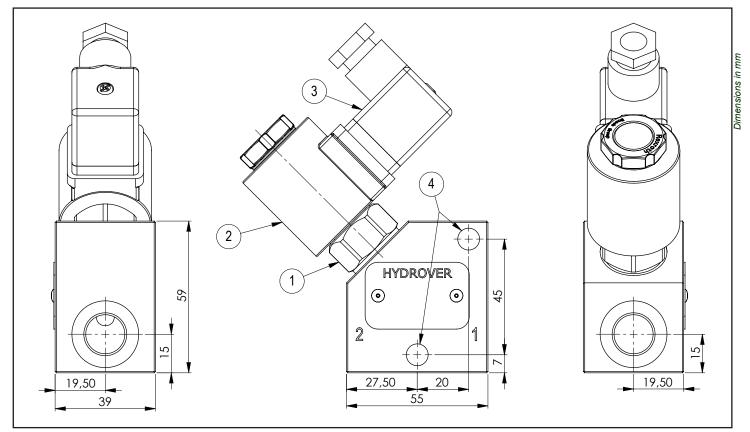






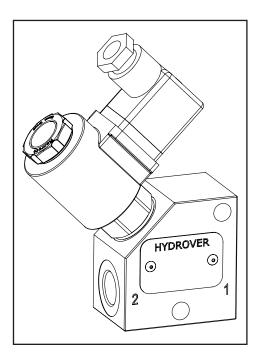
Inline valve with poppet type solenoid operated directional valve Opposite 3/8" G ports / 40 lpm





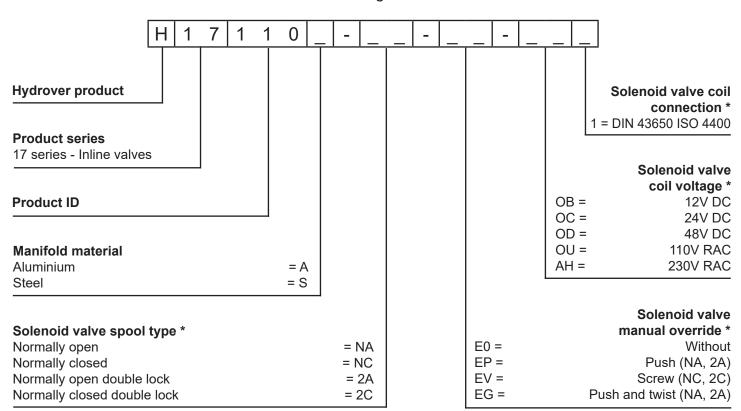
N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-08A-NC OD.15-X-18-Y-000000 (normally closed) or VEI-16-08A-NA OD.15-X-18-Y-000000 (normally open) depicted without manual override *	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	2
3	Connector DIN 43650 ISO 4400	1
4	Ø 8,5 through hole for mounting	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



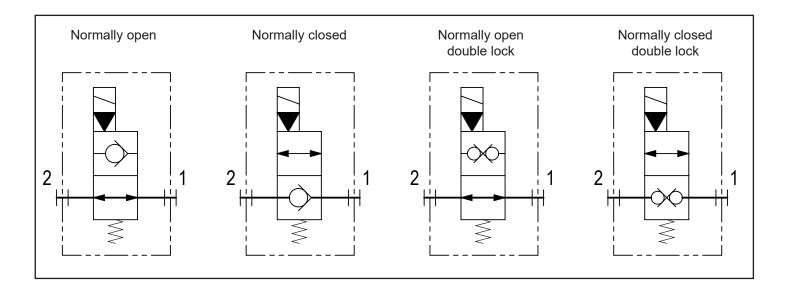
Technical data		
Max. flow	Max. flow	
Ports		3/8" G
Manifold material	Aluminium	Steel
Max. pressure	250 bar	350 bar
Weight	0,65 Kg	1,1 Kg



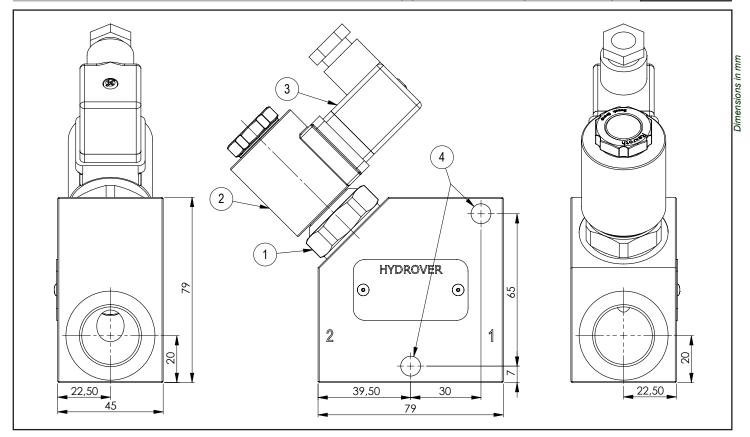


^{*} Omit if not required. For example, to order the product without valves, omit the solenoid valve spool type, manual override, coil connection and coil voltage options: H17110A.

The manifold will still be provided with the corrisponding cavity.

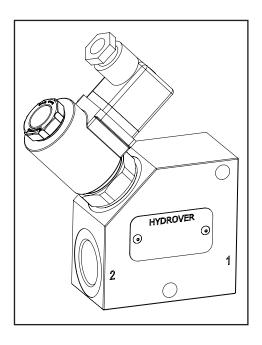


Inline valve with poppet type solenoid operated directional valve H17111 Opposite 3/4" G ports / 70 lpm



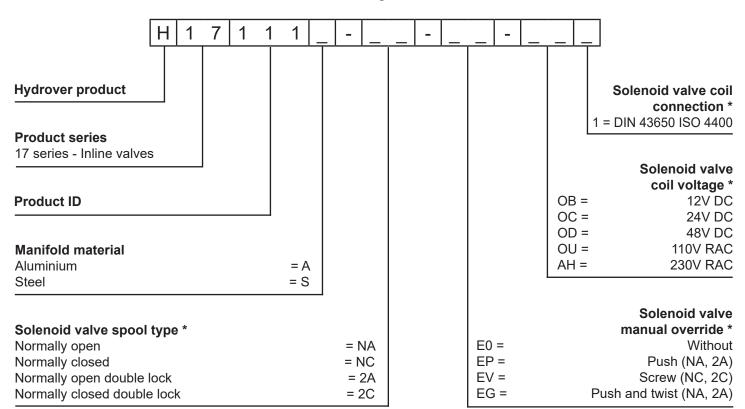
N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-12G-NC OD.15-X-17-Y-000000 (normally closed) or VEI-16-12G-NA OD.15-X-17-Y-000000 (normally open) depicted without manual override *	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	2
3	Connector DIN 43650 ISO 4400	1
4	Ø 8,5 through hole for mounting	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



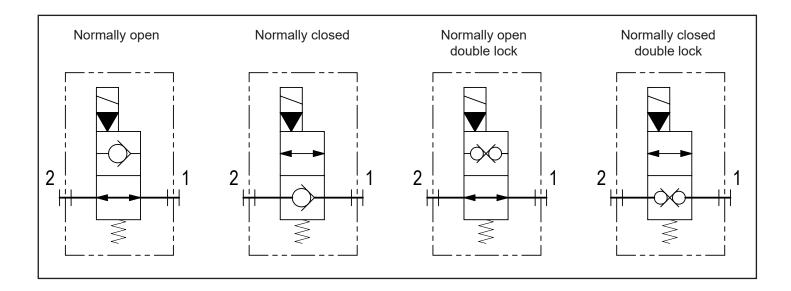
Technical data		
Max. flow		70 lpm *
Ports		3/4" G
Manifold material	Aluminium	Steel
Max. pressure	250 bar	350 bar
Weight	1,05 Kg	2,1 Kg



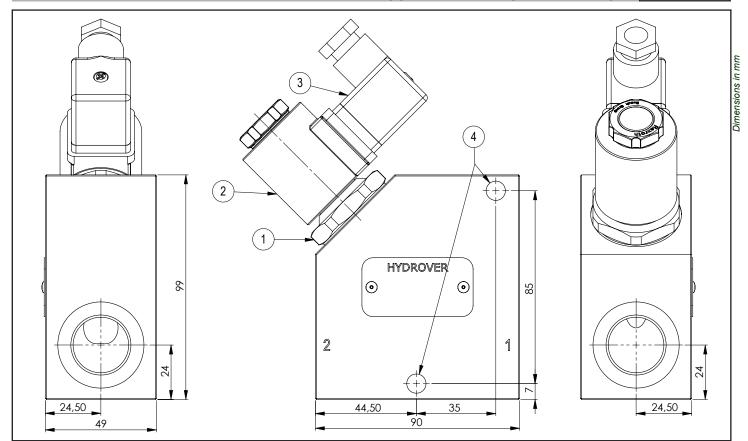


^{*} Omit if not required. For example, to order the product without valves, omit the solenoid valve spool type, manual override, coil connection and coil voltage options: H17111A.

The manifold will still be provided with the corrisponding cavity.

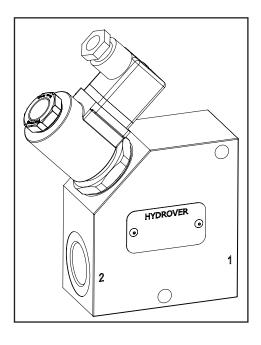


Inline valve with poppet type solenoid operated directional valve Opposite 3/4" G ports / 100 lpm



N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-16G-NC OD.15-X-21-Y-000000 (normally closed) or VEI-16-16G-NA OD.15-X-21-Y-000000 (normally open) depicted without manual override *	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	2
3	Connector DIN 43650 ISO 4400	1
4	Ø 8,5 through hole for mounting	1

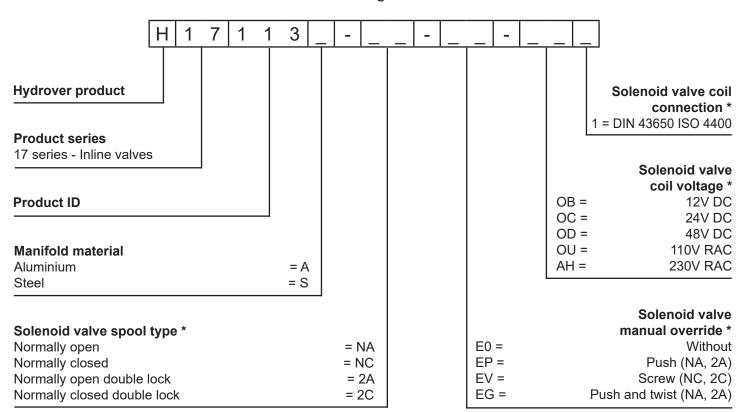
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Technical data		
Max. flow		100 lpm *
Ports		3/4" G
Manifold material	Aluminium	Steel
Max. pressure	250 bar	350 bar
Weight	1,5 Kg	3,1 Kg

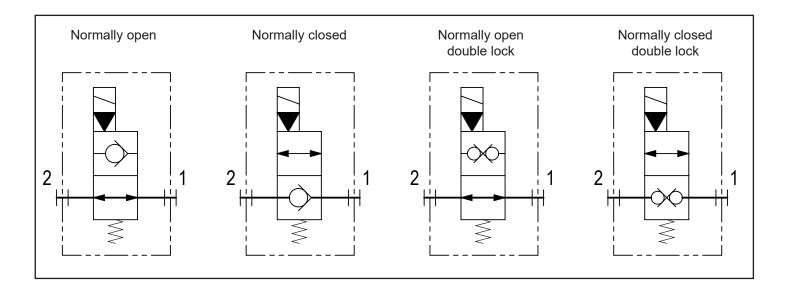


Inline valves 17 SERIES H17113



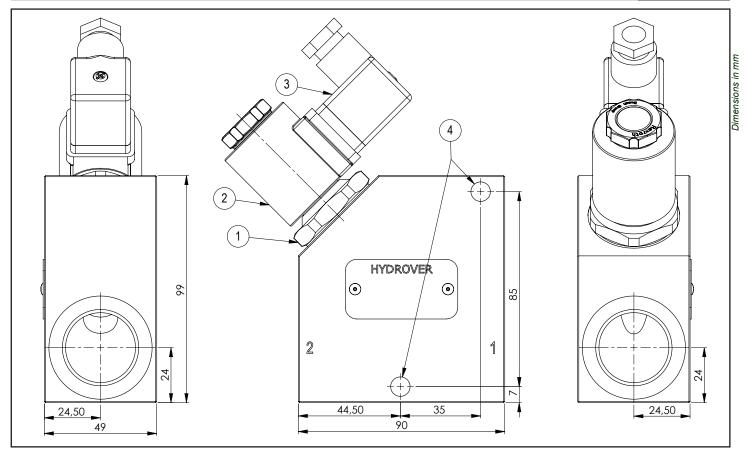
^{*} Omit if not required. For example, to order the product without valves, omit the solenoid valve spool type, manual override, coil connection and coil voltage options: H17113A.

The manifold will still be provided with the corrisponding cavity.



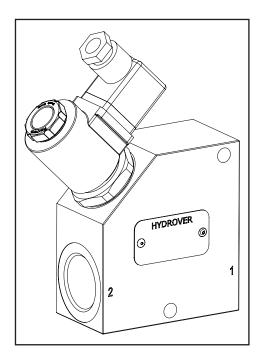
Inline valve with poppet type solenoid operated directional valve Opposite 1" G ports / 150 lpm





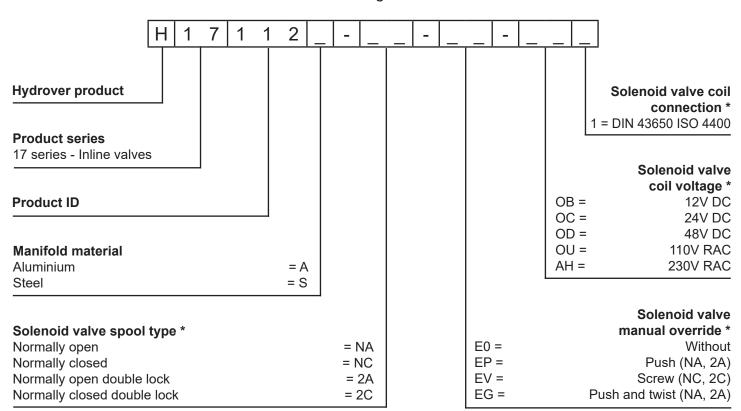
N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-16G-NC OD.15-X-21-Y-000000 (normally closed) or VEI-16-16G-NA OD.15-X-21-Y-000000 (normally open) depicted without manual override *	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	2
3	Connector DIN 43650 ISO 4400	1
4	Ø 8,5 through hole for mounting	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



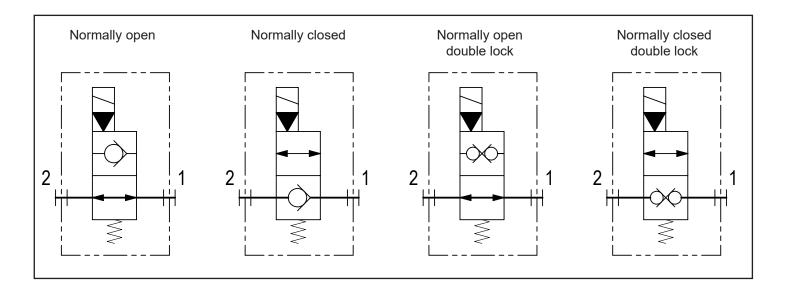
Technical data		
Max. flow		150 lpm *
Ports		1" G
Manifold material	Aluminium	Steel
Max. pressure	250 bar	350 bar
Weight	1,4 Kg	3 Kg





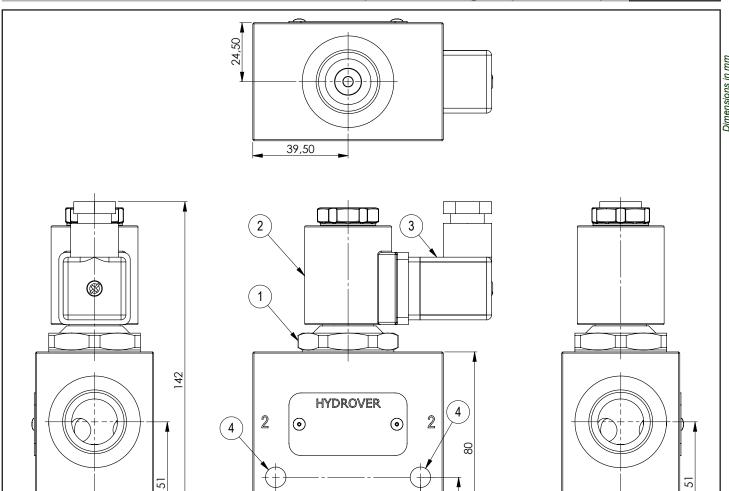
^{*} Omit if not required. For example, to order the product without valves, omit the solenoid valve spool type, manual override, coil connection and coil voltage options: H17112A.

The manifold will still be provided with the corrisponding cavity.

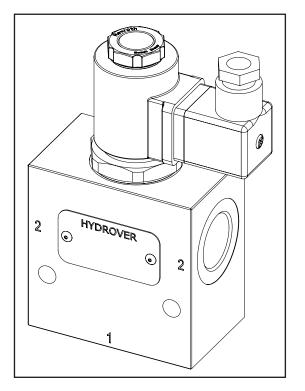


24,50

Inline valve with poppet type solenoid operated directional valve 3/4" G ports / Through 2 port / 100 lpm



60



24,50

9,50

Technical data		
Max. flow	100 lt/1 *	
Max. pressure	250 bar	
Weight	1,2 Kg	
Manifold material	Aluminium	
Ports	3/4" G	

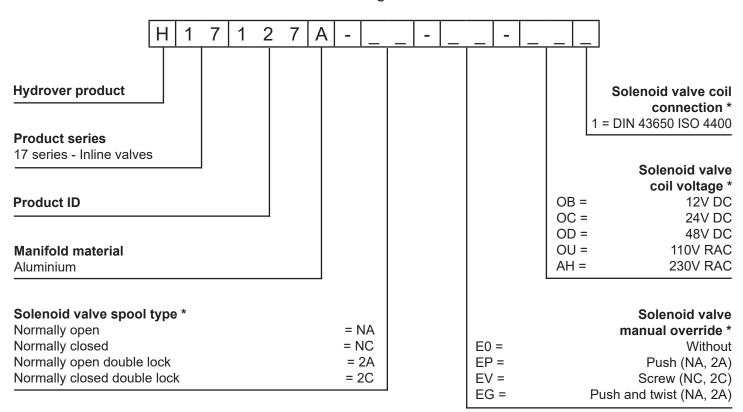
28

N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-16G-NC OD.15-X-21-Y-000000 (normally closed) or VEI-16-16G-NA OD.15-X-21-Y-000000 (normally open) depicted without manual override *	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	2
3	Connector DIN 43650 ISO 4400	1
4	Ø 8,5 through hole for mounting	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

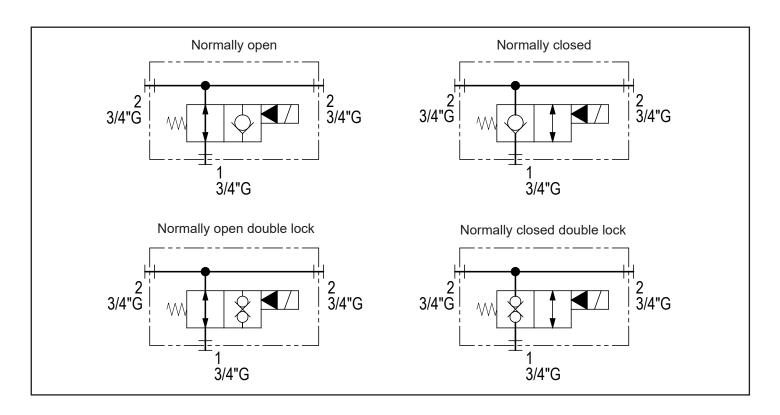


Inline valves 17 SERIES H17127



^{*} Omit if not required. For example, to order the product without valves, omit the solenoid valve spool type, manual override, coil connection and coil voltage options: H17112A.

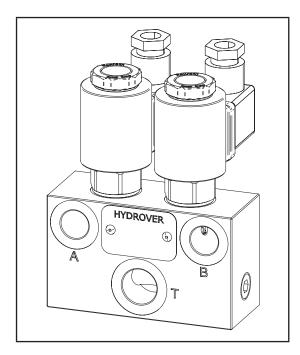
The manifold will still be provided with the corrisponding cavity.

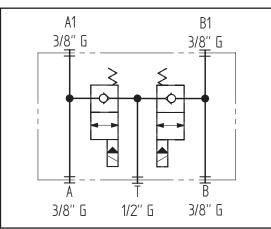




Inline float valve 3/8" G H17012

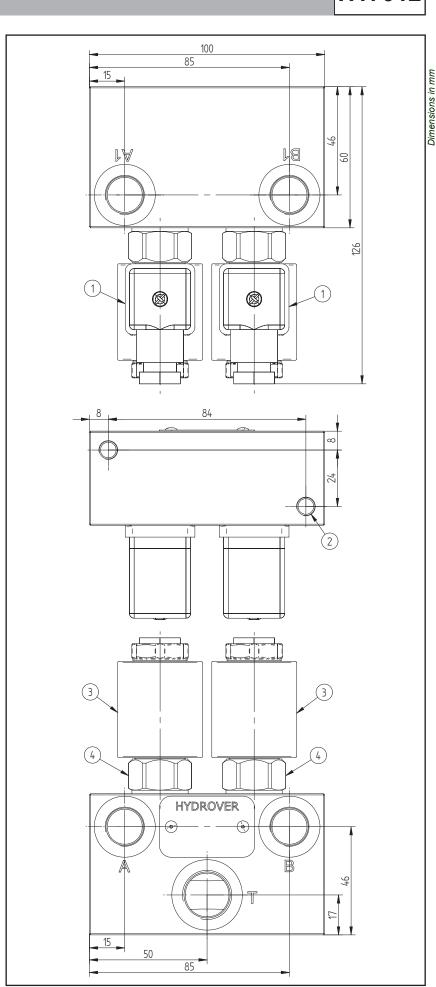
Technical data		
Max. pressure	250 bar	
Max. flow	40 lpm *	
Weight	1,3 Kg	
Manifold material	Aluminium	
A / B / A1 / B1 ports	3/8" G	
T port	1/2" G	



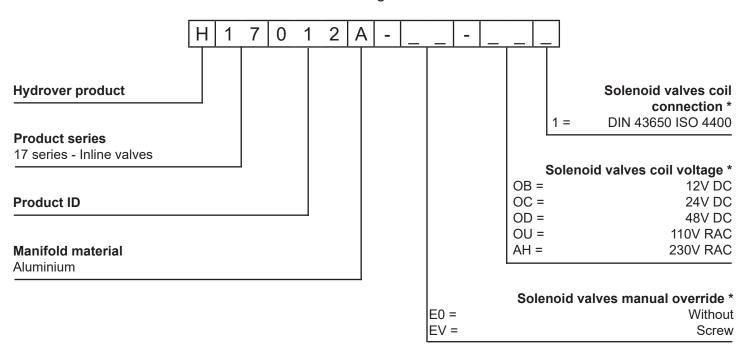


N°	Description	Q.ty
1	Connector DIN 43650 ISO 4400	2
2	M8x15 thread for mounting	2
3	Bosch Rexroth coil D36 CLASS H DIN 43650 ISO 4400 *	2
4	Bosch Rexroth solenoid valve VEI-16-08A-NC OD.15.05.18-Y-000000 depicted without manual override *	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue







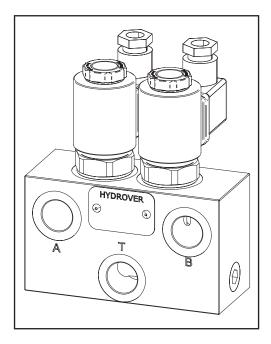
^{*} Omit if not required. For example, to order the product without the solenoid cartridge valves, omit the coil connection, coil voltage, max. flow and manual override options: H17012A.

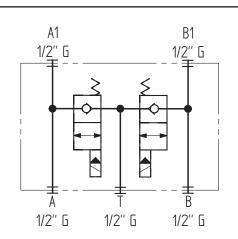
The manifold will still be provided with the corrisponding cavities.



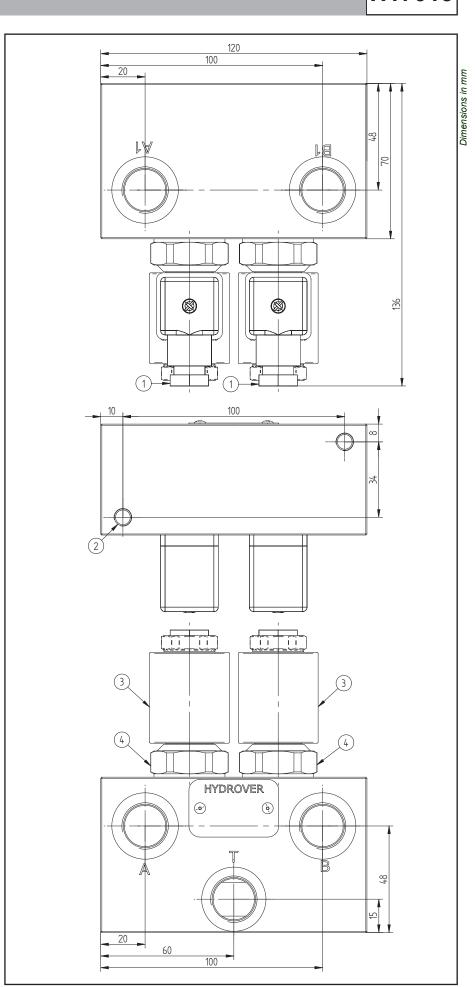
Inline float valve 1/2" G H17013

Technical data	
Max. pressure	250 bar
Max. flow	70 lpm *
Weight	1,9 Kg
Manifold material	Aluminium
A / B / A1 / B1 / T ports	1/2" G



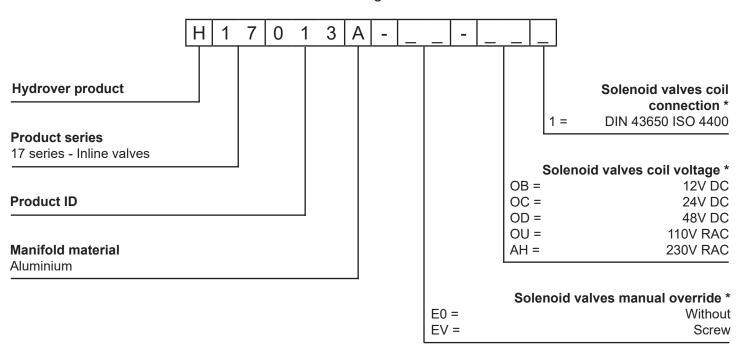


N°	Description	Q.ty
1	Connector DIN 43650 ISO 4400	2
2	M8x15 thread for mounting	2
3	Bosch Rexroth coil D36 CLASS H DIN 43650 ISO 4400 *	2
4	Bosch Rexroth solenoid valve OD.15.05.17-Y-000000 depicted without manual override.	2



^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



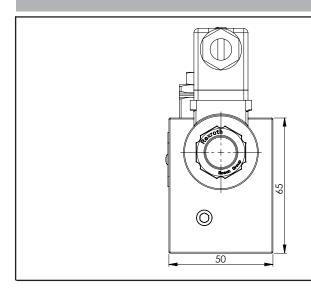


^{*} Omit if not required. For example, to order the product without the solenoid cartridge valves, omit the coil connection, coil voltage, max. flow and manual override options: H17013A.

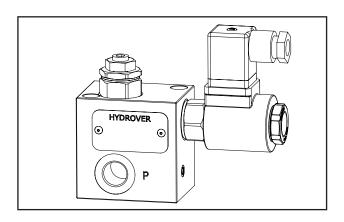
The manifold will still be provided with the corrisponding cavities.

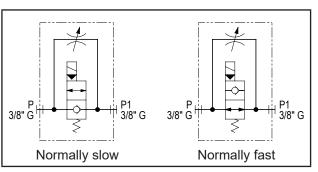


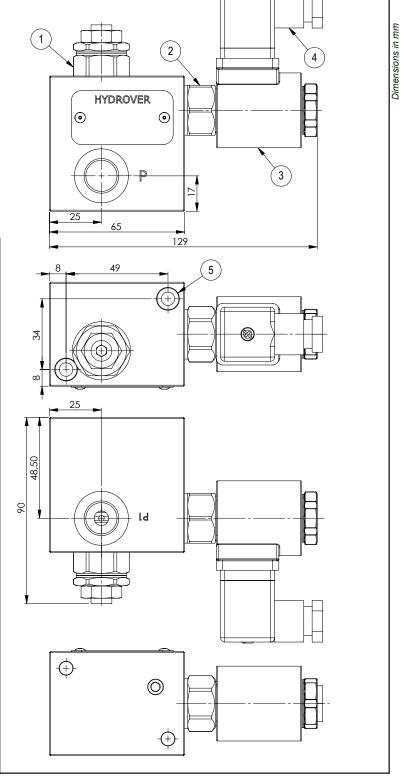
2 way fast slow speed inline valve / 30 lpm H17034



= 1 1 1 1 1		
Technical data		
Max. pressure	250 bar	
Max. flow	30 lpm *	
Weight	1 Kg	
Manifold material	Aluminium	
P / P1 ports	3/8" G	







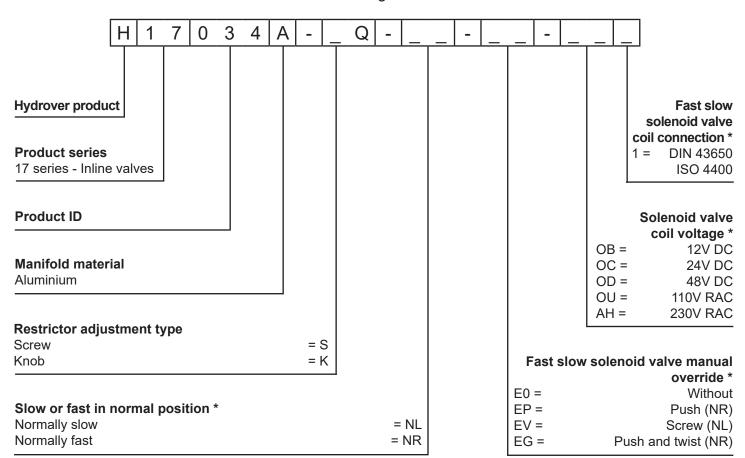
N°	Description	Q.ty
1	Bosch Rexroth bidirectional flow restrictor OD.21.01-X-56 * depicted with screw adjustment	1
2	Bosch Rexroth solenoid valve for fast slow function VEI-16-08A-NC OD.15.05.18-Y-000000 (normally slow) or VEI-16-08A-NA OD.15.06.18-Y-000000 (normally fast) depicted without manual override *	1
3	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
4	Connector DIN 43650 ISO 4400	1
5	M8x15 with Ø 6,5 through hole for mounting with M6 screw	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Inline valves 17 SERIES H17034

Ordering code



^{*} Omit if not required. For example, to order the product without the fast slow solenoid cartridge valve, omit the fast slow coil connection, coil voltage and manual override options: H17034A-SQ

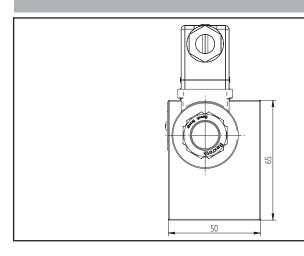
The manifold will still be provided with the corrisponding cavity.

To inhibit a function, replace the related valve options with TL: eg H17034A-SQ-TL.

In the cavity it will be mounted a long plug.

Valve	Cavity	Long plug code
Solenoid valve VEI-16-08A-NC OD.15.05.18-Y-000000 or VEI-16 08A-NA OD.15.06.18-Y-000000	CA-08A-2N	0489A2005600000

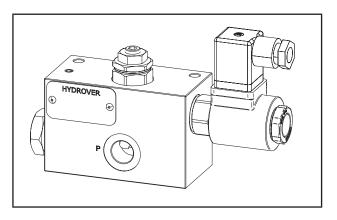
3 way compensated fast slow speed inline valve / 30 lpm H17001

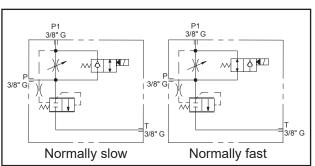


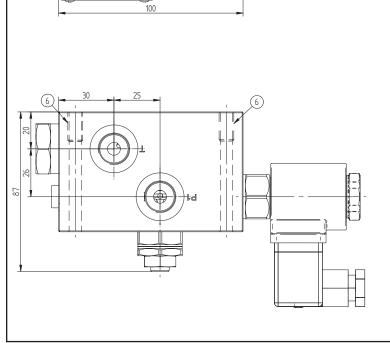
HYDROVER

2	3
1 HYDROVER ©	
- P	8
55	

Technical data		
Max. pressure	250 bar	
Max. flow	30 lpm	
Weight	1,2 Kg	
Manifold material	Aluminium	
P / P1 / T ports	3/8" G	







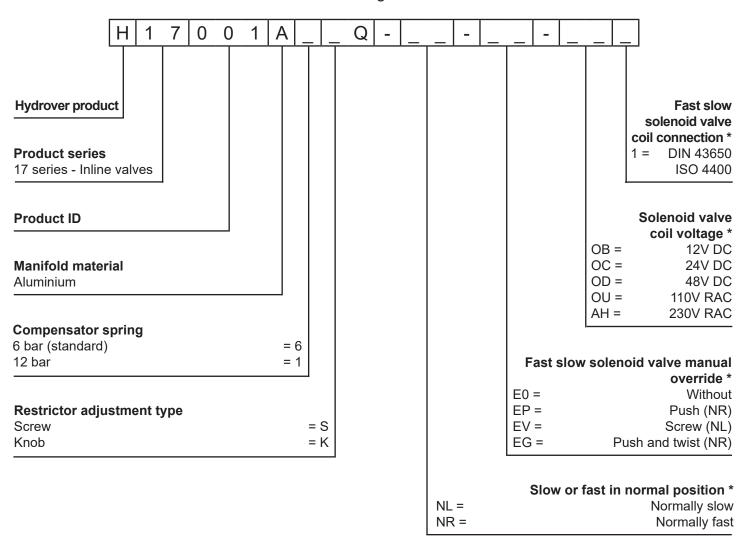
N°	Description	Q.ty
1	Pressure compensator	1
2	Bosch Rexroth bidirectional flow restrictor OD.21.01-X-56 * depicted with screw adjustment	1
3	Bosch Rexroth solenoid valve for fast slow function VEI-16-08A-NC OD.15.05.18-Y-000000 (normally slow) o VEI-16-08A-NA OD.15.06.18-Y-000000 (normally fast) depicted without manual override *	1
4	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
5	Connector DIN 43650 ISO 4400	1
6	M8x15 with Ø 6,5 through hole for mounting with M6 screw	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Inline valves 17 SERIES H17001

Ordering code



^{*} Omit if not required. For example, to order the product without the fast slow solenoid cartridge valve, omit the fast slow coil connection, coil voltage and manual override options: H17001A4SQ.

The manifold will still be provided with the corrisponding cavity.

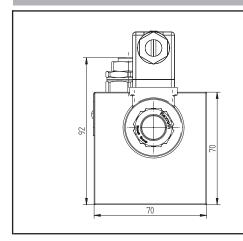
To inhibit a function, replace the related valve options with TL: eg H17001A4SQ-TL.

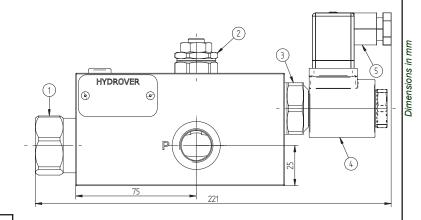
m are earry a time se trical tearing prag.		
Valve	Cavity	Long plug code
Solenoid valve VEI-16-08A-NC OD.15.05.18-Y-000000 or VEI-16-08A- NA	CA-08A-2N	0489A2005600000
OD.15.06.18-Y-000000		

HYDROVER

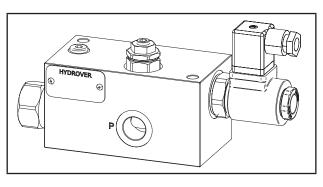
3 way compensated fast slow speed inline valve / 60 lpm H17015

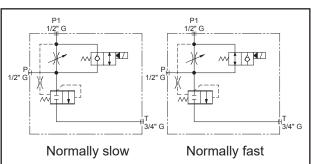


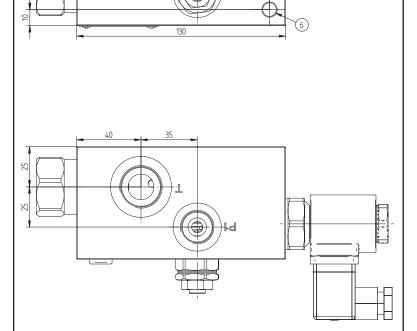




Technical data	
Max. pressure	250 bar
Max. flow	60 lpm
Weight	2,3 Kg
Manifold material	Aluminium
P / P1 ports	1/2" G
T port	3/4" G







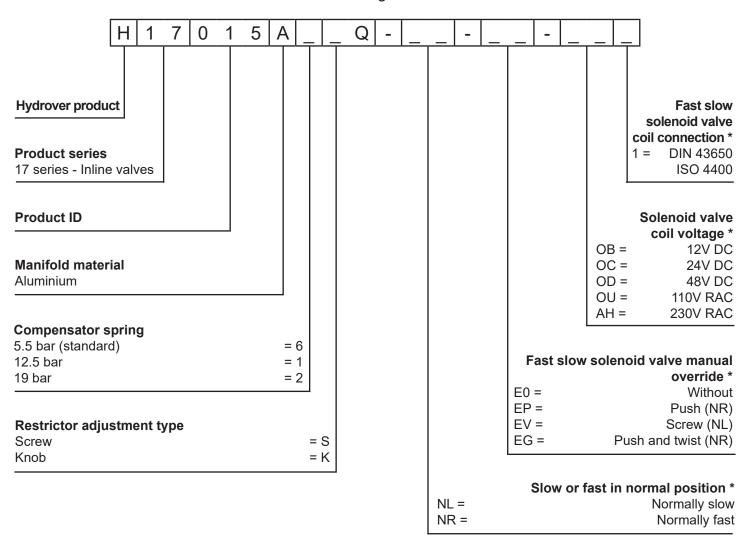
N°	Description	Q.ty
1	Pressure compensator	1
2	Bosch Rexroth bidirectional flow restrictor OD.21.01-X-56 * depicted with screw adjustment	1
3	Bosch Rexroth solenoid valve for fast slow function OD.15.05.17-Y-000000 * (normally slow) o OD.15.06.17-Y-000000 (normally fast)	1
4	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
5	Connector DIN 43650 ISO 4400	1
6	Ø 8,5 through hole for mounting	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Inline valves 17 SERIES H17015

Ordering code



^{*} Omit if not required. For example, to order the product without the fast slow solenoid cartridge valve, omit the fast slow coil connection, coil voltage and manual override options: H17015A6SQ.

The manifold will still be provided with the corrisponding cavity.

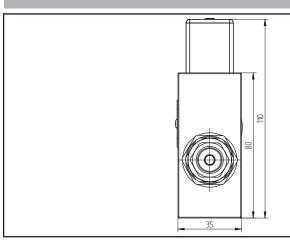
To inhibit a function, replace the related valve options with TL: eg H17015A6SQ-TL.

Valve	Cavity	Long plug code
Solenoid valve OD.15.05.17-Y-000000 / OD.15.06.17-Y-000000	017-E	R-800-014

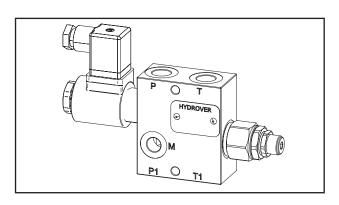
HYDROVER

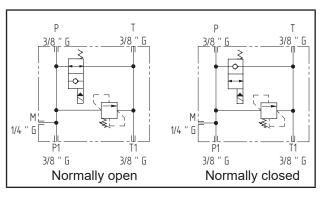
Inline valve with bypass and relief / 35 lpm H17005

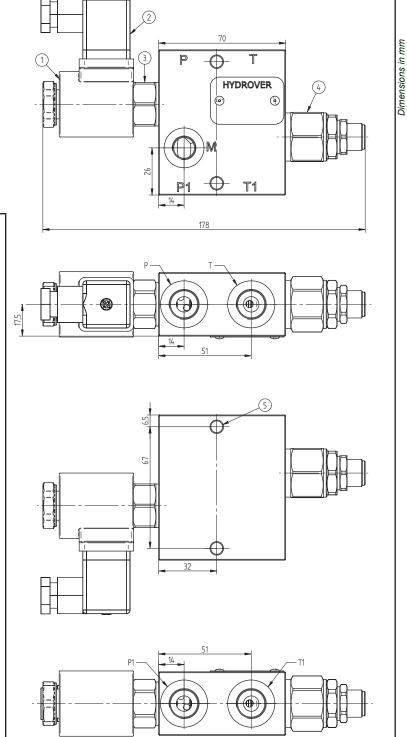




Technical data		
Max. pressure	250 bar	
Max. flow	35 lpm *	
Weight	1 Kg	
Manifold material	Aluminium	
M port	1/4" G	
P / P1 / T / T1 ports	3/8" G	







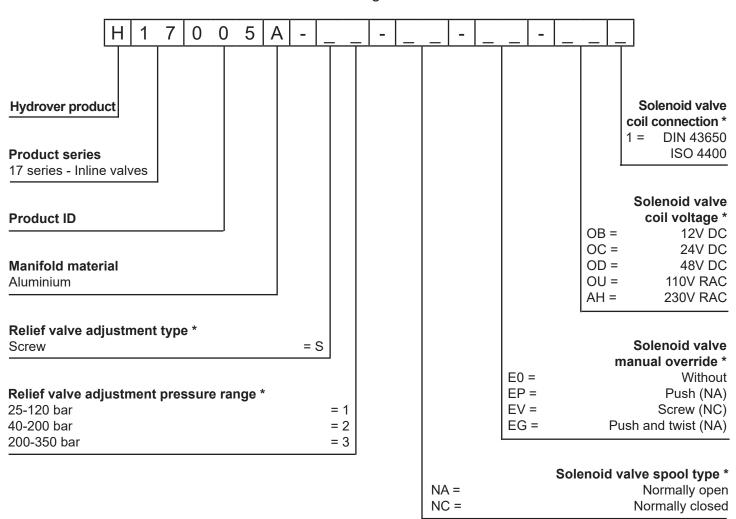
N°	Description	Q.ty
1	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
2	Connector DIN 43650 ISO 4400	1
3	Bosch Rexroth solenoid valve VEI-16 OD.15.05.18-Y-000000 (normally closed) o VEI-16 OD.15.06.18-Y-000000 (normally open) depicted without manual override *	1
4	Bosch Rexroth relief valve VMD1.040 *	1
5	Ø 6,5 through hole for mounting	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Inline valves 17 SERIES

Ordering code



^{*} Omit if not required. For example, to order the product without the solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H17005A-S2.

The manifold will still be provided with the corrisponding cavity.

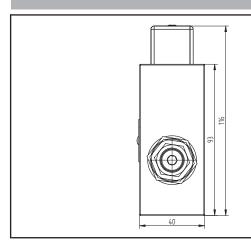
To inhibit a function, replace the related valve options with TL: eg H17005A-S2-TL.

Valve	Cavity	Long plug code
Solenoid valve VEI-16 OD.15.05.18-Y-000000 or VEI-16 OD.15.06.18-Y-000000	CA-08A-2N	0489A2005600000
Pressure relief valve VMD1.040	CA-10A-2N	0489A2008500000

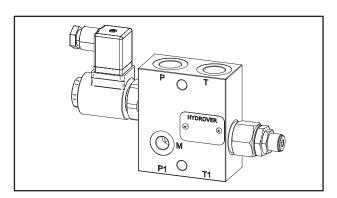
HYDROVER

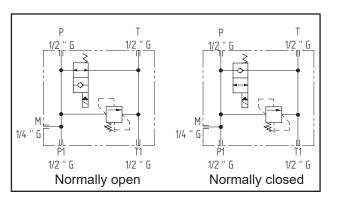
Inline valve with bypass and relief / 60 lpm H17006

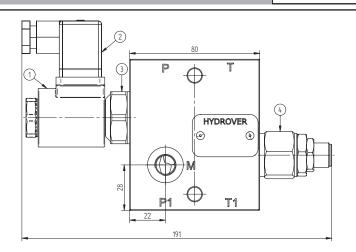


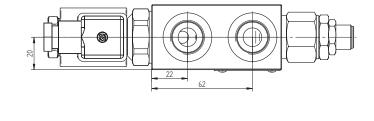


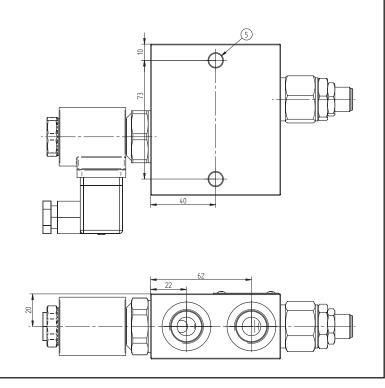
Technical data		
Max. pressure	250 bar	
Max. flow	60 lpm *	
Weight	Aluminium 1,3 Kg Steel 2,4 Kg	
Manifold material	Aluminium or steel	
M port	1/4" G	
P / P1 / T / T1 ports	1/2" G	











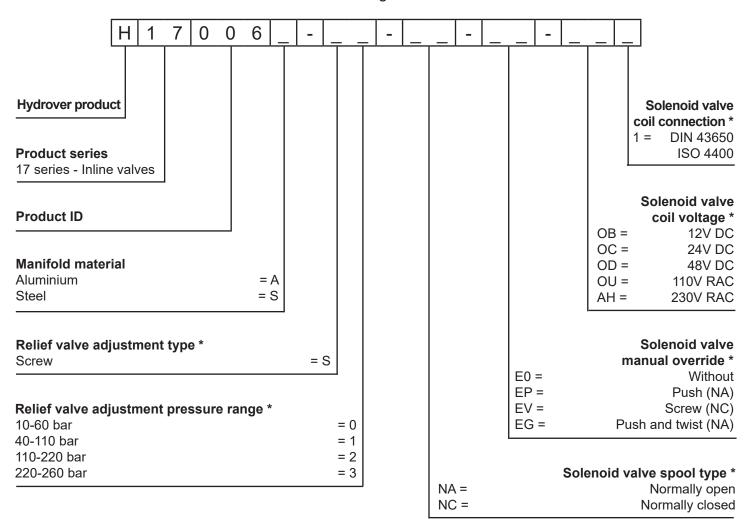
N°	Description	Q.ty
1	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
2	Connector DIN 43650 ISO 4400	1
3	Bosch Rexroth solenoid valve OD.15.05.17-Y-000000 (normally closed) o OD.15.06.17-Y-000000 (normally open) depicted without manual override *	1
4	Bosch Rexroth relief valve VMD1.070 *	1
5	Ø 8,5 through hole for mounting	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Inline valves 17 SERIES

Ordering code



^{*} Omit if not required. For example, to order the product without the solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H17006A-S2.

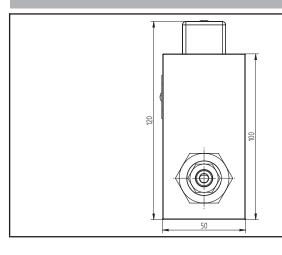
The manifold will still be provided with the corrisponding cavity.

To inhibit a function, replace the related valve options with TL: eg H17006A-S2-TL.

Valve	Cavity	Long plug code
Solenoid valve OD.15.05.17-Y-000000 / OD.15.06.17-Y-000000	017-E	R-800-014
Pressure relief valve VMD1.070	CA-10A-2N	0489A2008500000

Inline valve with bypass and relief / 120 lpm H17003

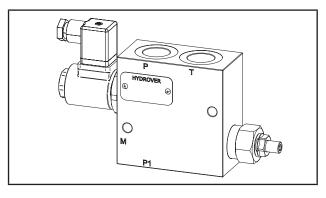


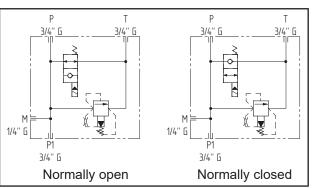


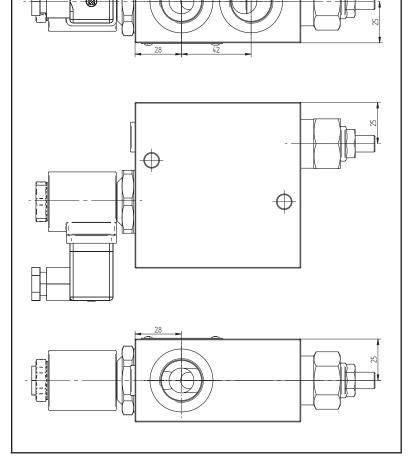
HYDROVER

	2	
1	(3) P HYDROVER (9) ⊛	T
8		
35	N P1	
	10 80	
	1-	_

Technical data	
Max. pressure	250 bar
Max. flow	120 lpm *
Weight	2,1 Kg
Manifold material	Aluminium
M port	1/4" G
P / P1 / T ports	3/4" G







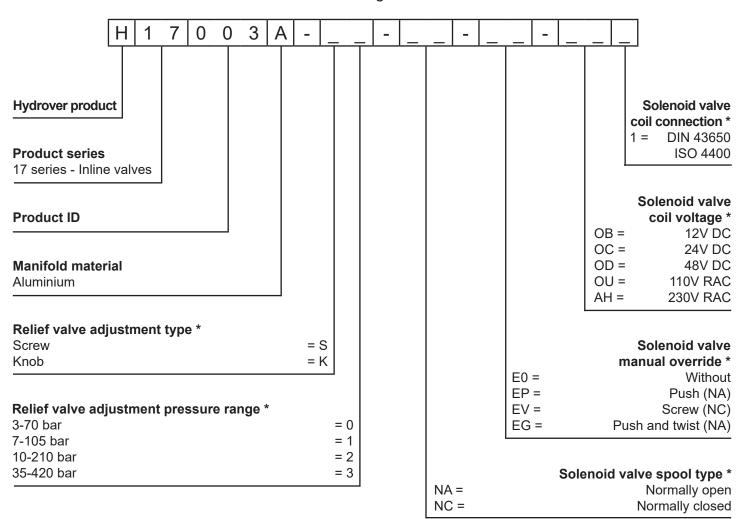
N°	Description	Q.ty
1	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
2	Connector DIN 43650 ISO 4400	1
3	Bosch Rexroth solenoid valve OD.15.05.21-Y-00000 (normally closed) o OD.15.06.21-Y-00000 (normally open) depicted without manual override *	1
4	Ø 8,5 through hole for mounting	1
5	Bosch Rexroth relief valve VSP-150 *	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Inline valves 17 SERIES H17003

Ordering code



^{*} Omit if not required. For example, to order the product without the solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H17006A-S2.

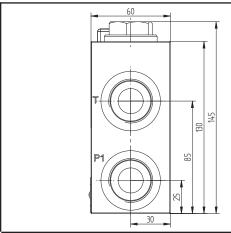
The manifold will still be provided with the corrisponding cavity.

To inhibit a function, replace the related valve options with TL: eg H17003A-TL-NA-E0-OC1.

Valve	Cavity	Long plug code
Solenoid valve OD.15.05.21-Y-00000 / OD.15.06.21-Y-00000	021-E	R-800-015
Pressure relief valve VSP-150	065	Contact Hydrover

Inline valve with bypass and relief / 200 lpm H17004



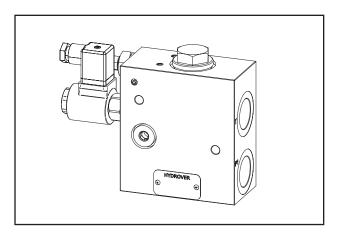


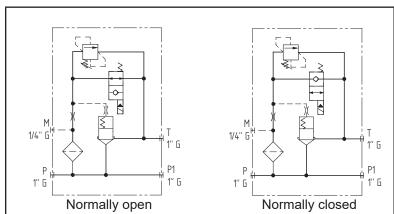
HYDROVER

60	
30	25 85 B0 145
-	1

4	Dimensions in mm

Technical data		
Max. pressure	350 bar	
Max. flow	200 lpm	
Weight	6,9 Kg	
Manifold material	Steel	
M port	1/4" G	
P / P1 / T ports	1" G	





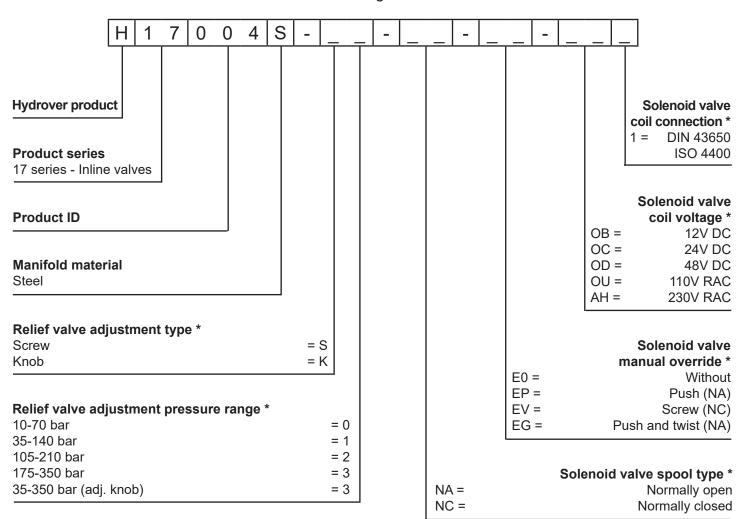
N°	Description	Q.ty
1	Connector DIN 43650 ISO 4400	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
3	Bosch Rexroth solenoid valve VEI-16-08A-NC OD.15.05.18-Y-000000 (normally closed) o VEI-16-08A-NA OD.15.06.18-Y-000000 (normally open) depicted without manual override *	1
4	Ø 8,5 through hole for mounting	2
5	Bosch Rexroth relief valve VSBN-08A depicted with screw regulation*	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Inline valves 17 SERIES

Ordering code



^{*} Omit if not required. For example, to order the product without the solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H17004S-S2.

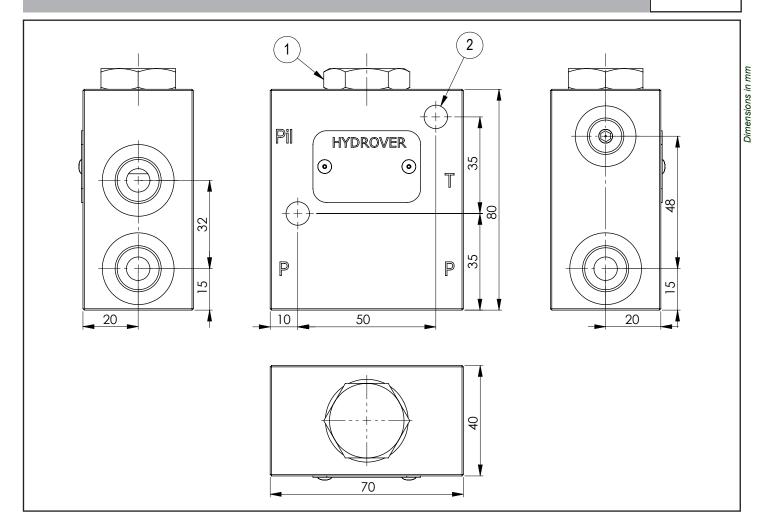
The manifold will still be provided with the corrisponding cavity.

To inhibit a function, replace the related valve options with TL: eg $\rm H17004S$ -TL-NA-E0-OC1.

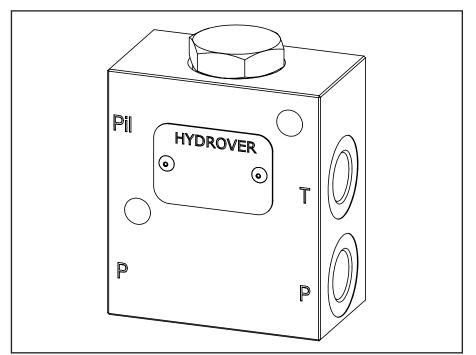
Valve	Cavity	Long plug code
Solenoid valve VEI-16-08A-NC OD.15.05.18-Y-000000 or VEI-16 08A-NA OD.15.06.18-Y-000000	CA-08A-2N	0489A2005600000
Pressure relief valve VSBN-08A	CA-08A-2N	0489A2005600000

HYDROVER

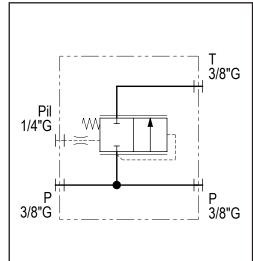
Inline compensator piloted externally 3/8" G H17115



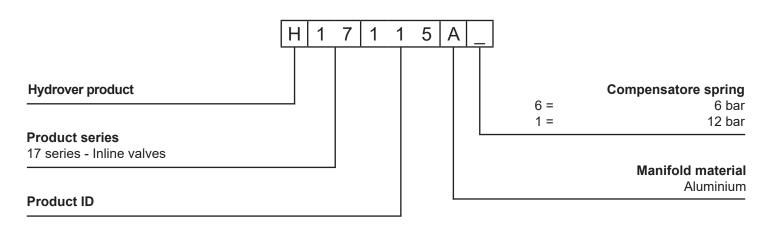
N°	Description	Q.ty
1	Compensator	1
2	Ø 8,5 through hole for mounting	2



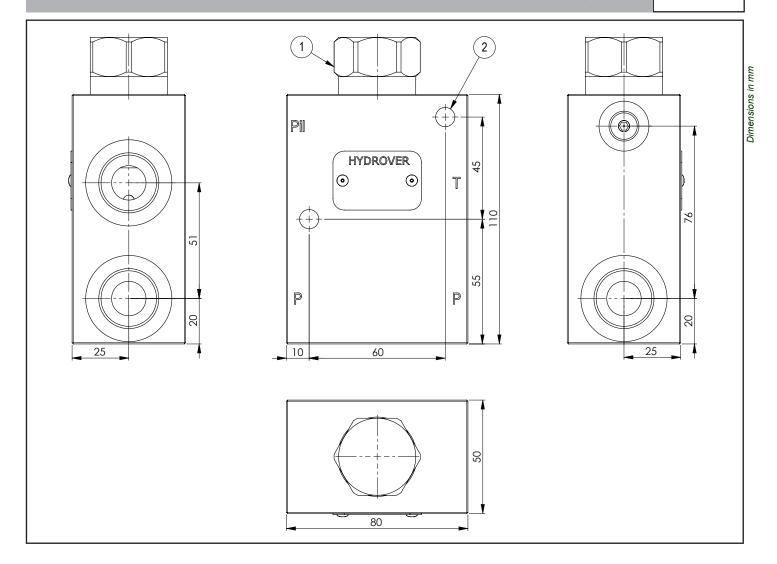
Technical data		
Max. pressure	250 bar	
Max. flow	40 lpm	
Weight	0,66 Kg	
Manifold material	Aluminium	
Pil port	1/4" G	
P / T ports	3/8" G	



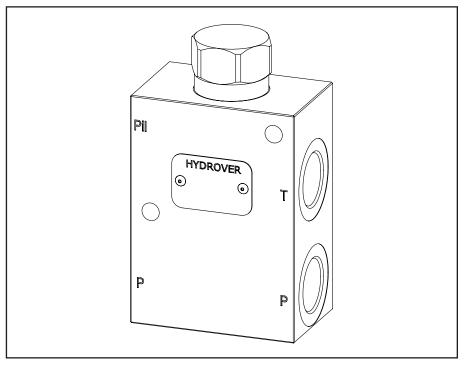




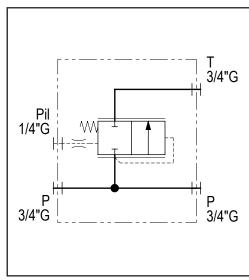
Inline compensator piloted externally 3/4" G H17116



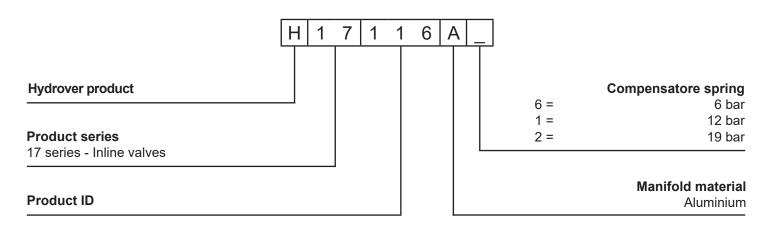
N°	Description	Q.ty
1	Compensator	1
2	Ø 8,5 through hole for mounting	2



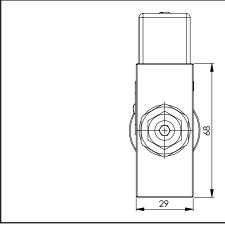
Technical data			
Max. pressure	250 bar		
Max. flow	160 lpm		
Weight	1,35 Kg		
Manifold material	Aluminium		
Pil port	1/4" G		
P / T ports	3/4" G		







Inline flow restrictor electrically enabled - A-B 3/8" G H17130

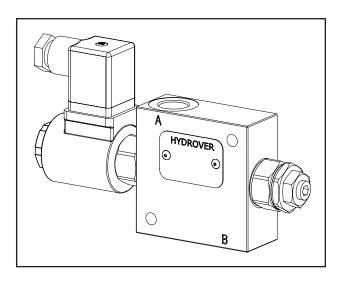


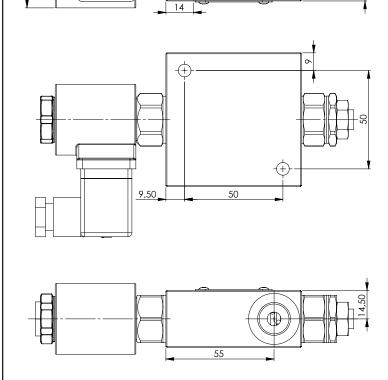
HYDROVER

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	A HYDROVER © ©
	69 159

Technical	data
Max. pressure	250 bar
Max. flow	40 lpm *
Weight	0,77 Kg
Manifold material	Aluminium
A / B ports	3/8" G

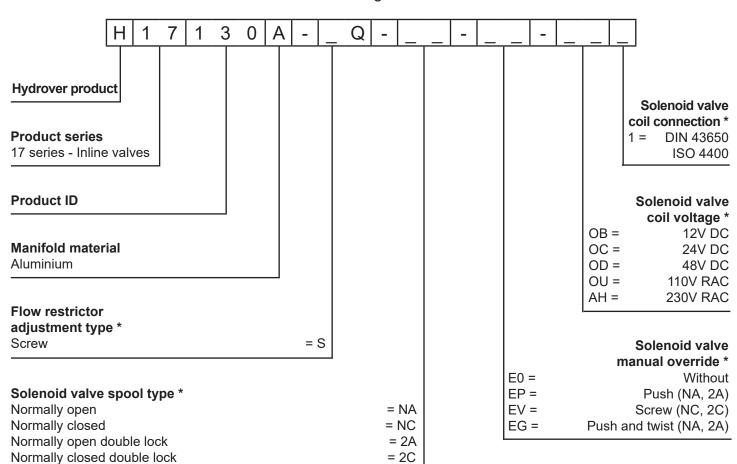




N°	Description	Q.ty
1	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
2	Connector DIN 43650 ISO 4400	1
3	Bosch Rexroth solenoid valve VEI-16-08A-NC OD.15.05.18-Y-000000 (normally closed) o VEI-16-08A-NA OD.15.06.18-Y-000000 (normally open) depicted without manual override *	1
4	Ø 6,5 through hole for mounting	2
5	Bosch Rexroth bidirectional flow restrictor OD.21.01-X-56 * depicted with screw adjustment	1

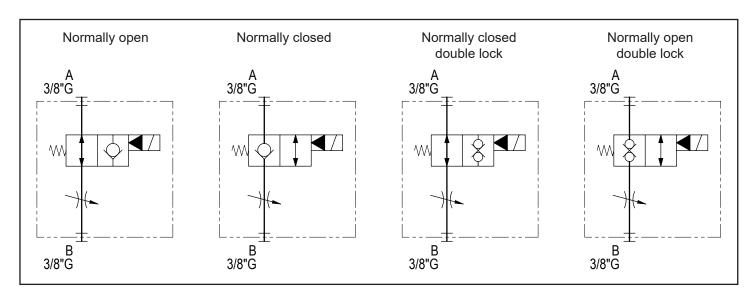
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

Ordering code

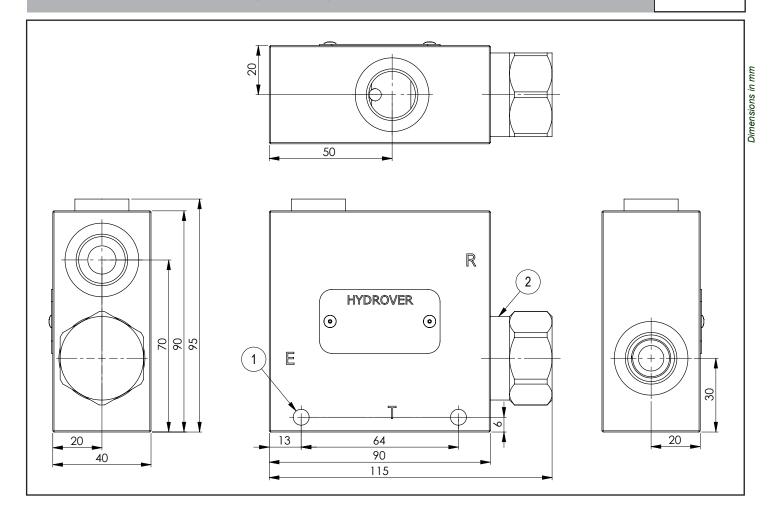


^{*} Omit if not required. For example, to order the product without the solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H17129A-SQ.

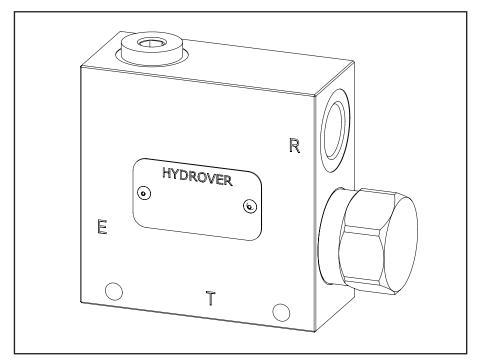
The manifold will still be provided with the corrisponding cavity.



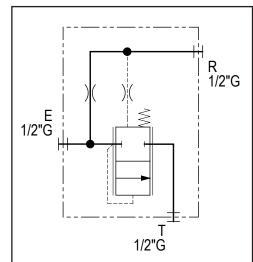
Fixed setting flow regulator 3 way compensated inline valve **H17002**



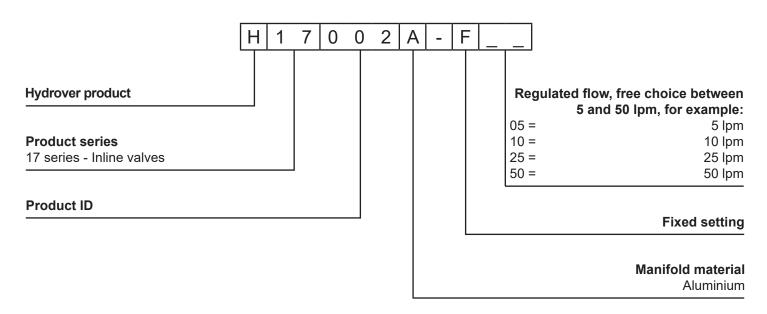
N°	Description	Q.ty
1	Ø 6,5 through hole for mounting	2
2	Compensator	1



Technical data	l
Max. pressure	250 bar
Max. inlet flow (E)	70 lpm
Max. regulated flow (R)	50 lpm
Weight	1,1 Kg
Manifold material	Aluminium
E / T / R ports	1/2" G









max. flow (C)

Manifold material

C/E/T ports

Weight

M port

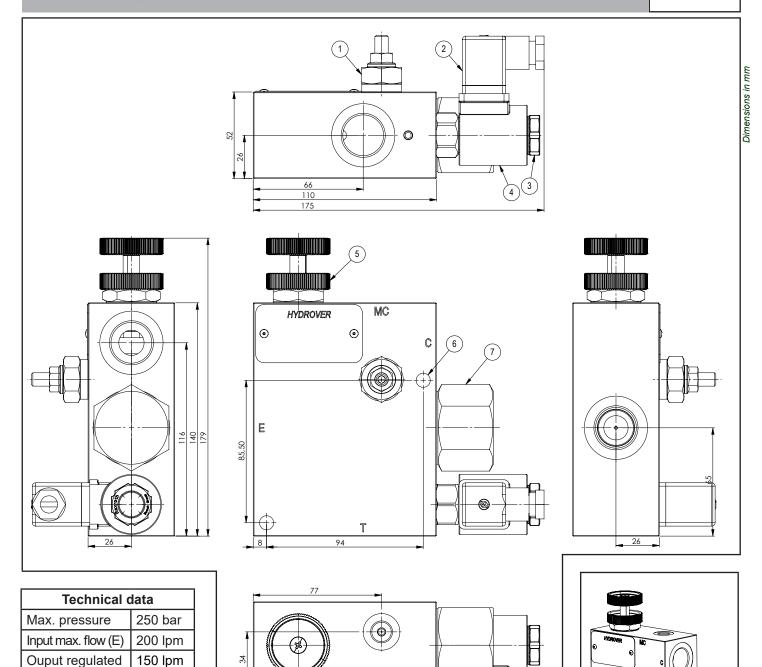
3,1 Kg

Aluminium

1/4" G

3/4" G

Flow regulator 3 way compensated inline valve with bypass and relief **H17045**



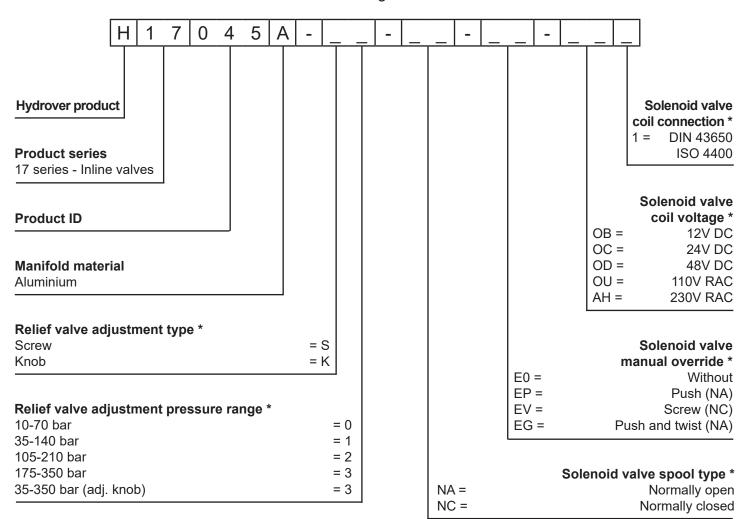
N°	Description	Q.ty
1	Bosch Rexroth relief valve VSBN-08A *	1
2	Connector DIN 43650 ISO 4400	1
3	Bosch Rexroth solenoid valve VEI-16-08A-NC OD.15.05.18-Y-000000 (normally closed) o VEI-16-08A-NA OD.15.06.18-Y-000000 (normally open) depicted without manual override *	1
4	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
5	Restrictor Bosch Rexroth	1
6	Ø 8,5 through hole for mounting	2
7	Compensator Bosch Rexroth	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Inline valves 17 SERIES

Ordering code

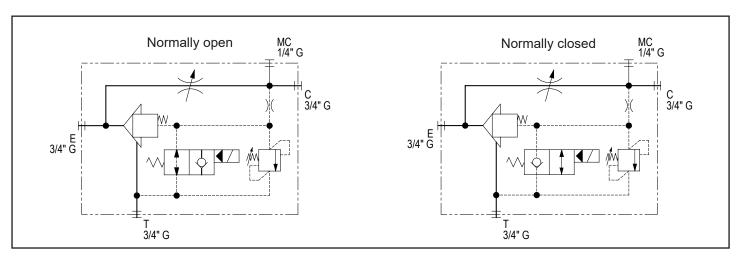


* Omit if not required. For example, to order the product without the solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H17045A-S2.

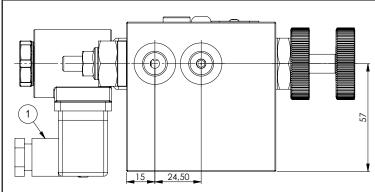
The manifold will still be provided with the corrisponding cavity.

To inhibit a function, replace the related valve options with TL: eg H17045A-TL-NA-E0-OC1.

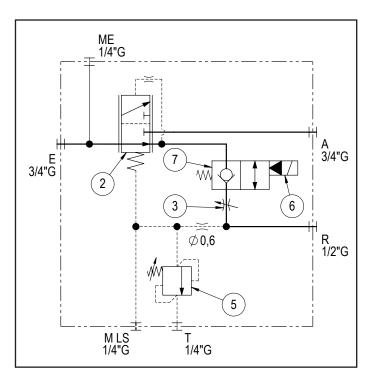
Valve	Cavity	Long plug code
Solenoid valve VEI-16-08A-NC OD.15.05.18-Y-000000 or VEI-16 08A-NA OD.15.06.18-Y-000000	CA-08A-2N	0489A2005600000
Pressure relief valve VSBN-08A	CA-08A-2N	0489A2005600000

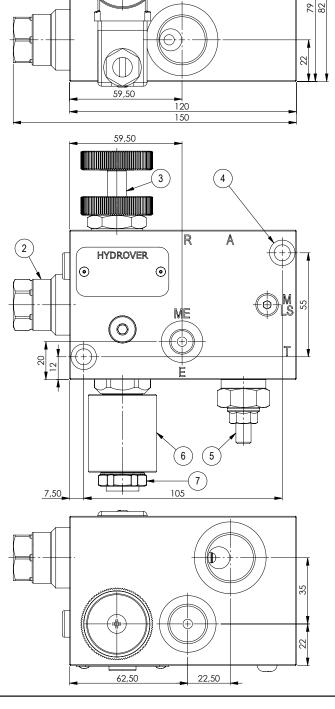


In-line valve with 3 way compensated flow control priority way electrically enabled and relief



Technical data	
Max. pressure	350 bar
Input max. flow (E)	100 lpm
Regolated max. flow (R)	50 lpm
Weight	2,65 Kg
Manifold material	Steel
ME / M LS / T ports	1/4" G
R port	1/2" G
E / A ports	3/4" G





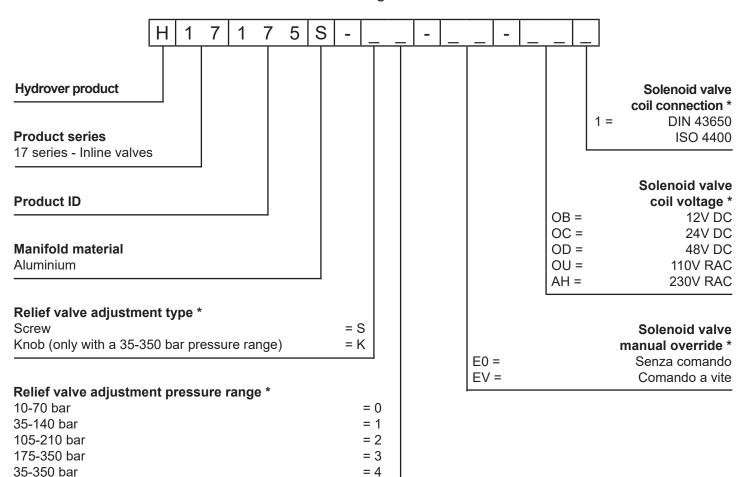
N°	Description	Q.ty
1	Connector DIN 43650 ISO 4400	1
2	Bosch Rexroth logic element VRLA-12A-10-S	1
3	Bosch Rexroth flow restrictor	1
4	Ø 8,5 through hole for mounting	2
5	Bosch Rexroth relief valve VSBN-08A *	1
6	Bosch Rexroth coil \$5-356 - CLASS H DIN 43650 ISO 4400 *	1
7	Bosch Rexroth solenoid valve VEI-16-10A-NA OD.15.06.36-Y-000000 *	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Inline valves 17 SERIES H17175

Ordering code



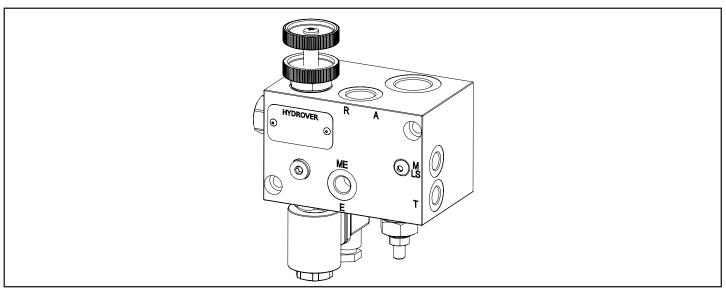
* Omit if not required. For example, to order the product without the solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H17175S-S2

The manifold will still be provided with the corrisponding cavity.

To inhibit a function, replace the relevant valve variables with TL for the relief valve (example H17175S-TL-E0-OC1), and TC for the solenoid valve (example H17175S-S2-TC).

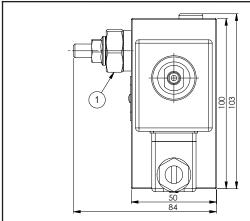
The corresponding plug will be mounted in the cavity.

Valve	Cavity	Plug type	Plug code
Solenoid valve VEI-16 08A-NA OD.15.06.36-Y-000000	CA-10A-2N	Short	207505-7/8UNF
Pressure relief valve VSBN-08A	CA-08A-2N	Long	0489A2005600000



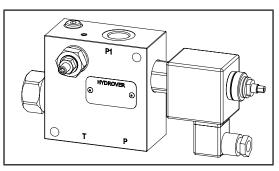


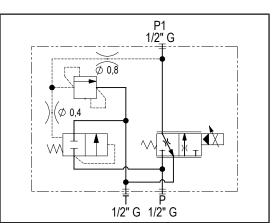
Inline valve with proportional 3 way compensated flow regulation and relief H17020

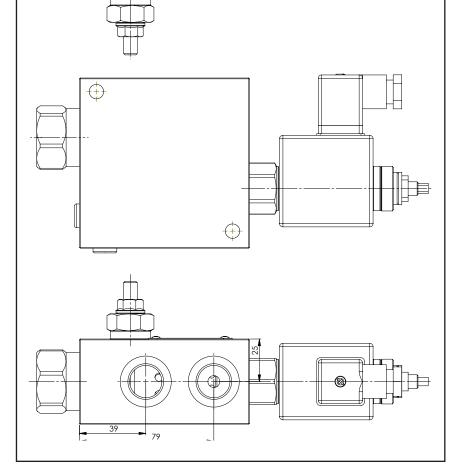


100

Technical	data
Max. pressure	210 bar
Input max. flow	65 lpm
Weight	Aluminium2,3 Kg Steel 4,4 Kg
Manifold material	Aluminium or steel
P / P1 / T ports	1/2" G







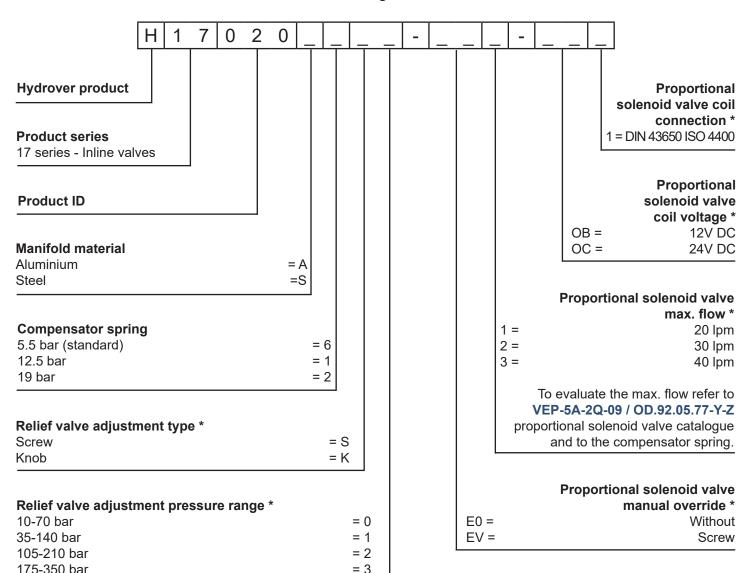
N°	Description	Q.ty
1	Bosch Rexroth relief valve VSBN-08A *	1
2	Ø 8,5 through hole for mounting	2
3	Pressure compensator	1
4	Bosch Rexroth proportional solenoid valve VEP-5A-2Q-09 / OD.92.05.77-Y-Z *	1
5	Bosch Rexroth coil \$5-356 - CLASS H DIN 43650 ISO 4400 *	1
6	Connector DIN 43650 ISO 4400	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Inline valves 17 SERIES H17020

Ordering code



= 3

The manifold will still be provided with the corrisponding cavity.

To inhibit a function, replace the related valve options with TL: eg H17020A6TL-EV2-OC1.

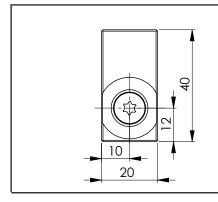
In the cavity it will be mounted a long plug.

35-350 bar (adj. knob)

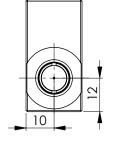
Valve	Cavity	Long plug code
Bosch Rexroth relief valve VSBN-08A	CA-08A-2N	0489A2005600000

^{*} Omit if not required. For example, to order the product without the proportional solenoid cartridge valve, omit the coil connection, coil voltage, max. flow and manual override options: H17020A6S2.

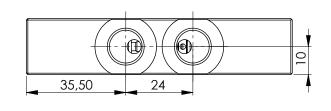
Inline double pilot operated check valve in stainless steel 1/4" G H17124

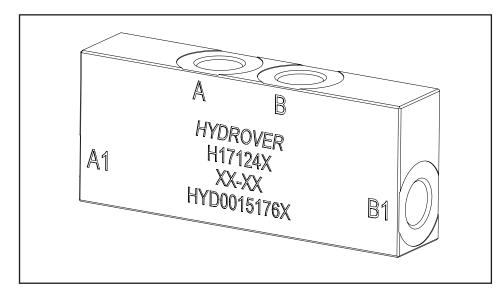


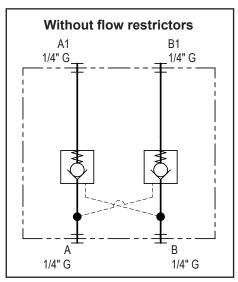
	A	В	
HYDROVER H17124Χ Δ1			
A1 	HYD00		B1
-	9.	5	

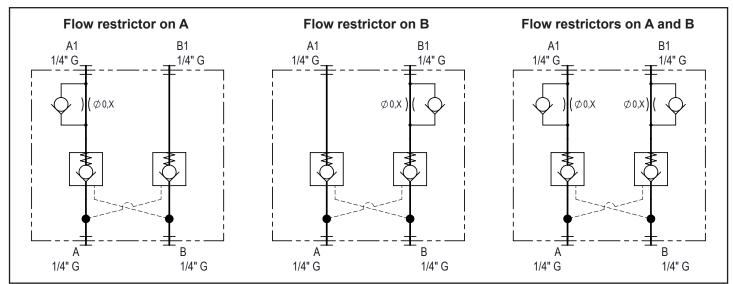


Technical data	
Max. pressure	350 bar
Max. flow	20 lt/1
Weight	0,7 Kg
Manifold material	Stainless steel 316L
All ports	1/4" G





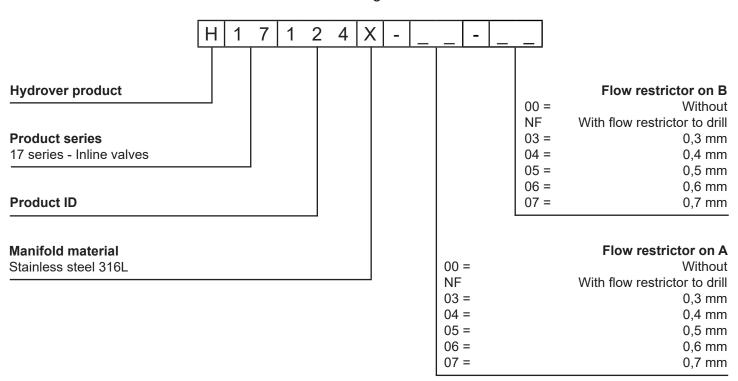






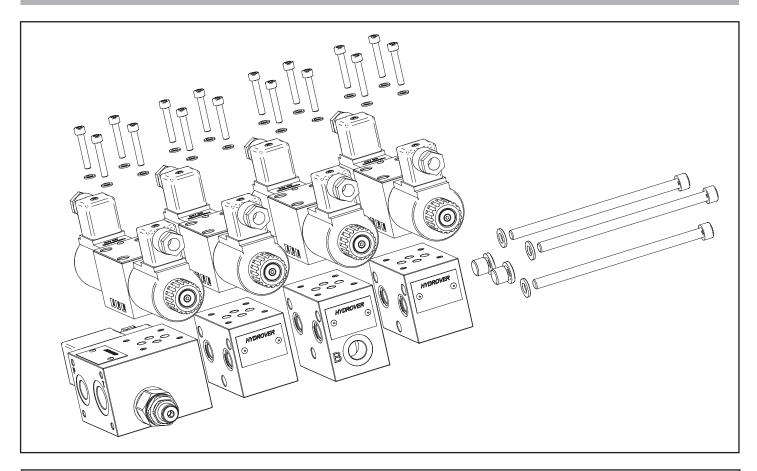
Inline valves 17 SERIES H17124

Ordering code





31 SERIES Modular Cetop 3 subplates for parallel circuits



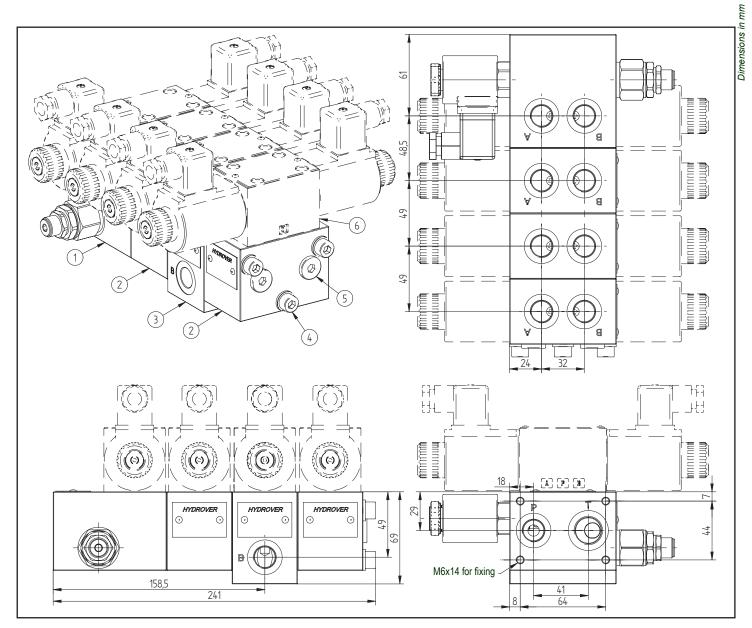
31 SERIES is suitable for assembling multi-purposes Cetop 3 modular systems with parallel circuit. It's divided into 2 families with compatible flanges.

Standard 31 SERIES - It has A / B / P 3/8" G and T 1/2" G ports threads. 1/4" G P T ports threads on all inlet and intermediate subplates allow in the last element to close easily P and T with 2 caps without using a terminal element. You can also replace the P with a pressure gauge.

Hi flow 31 SERIES - It has A / B / P 1/2" G and T 1/2" G ports threads. It's build for having a flow input up to 70 lpm. It has mounting holes both front and rear ports.

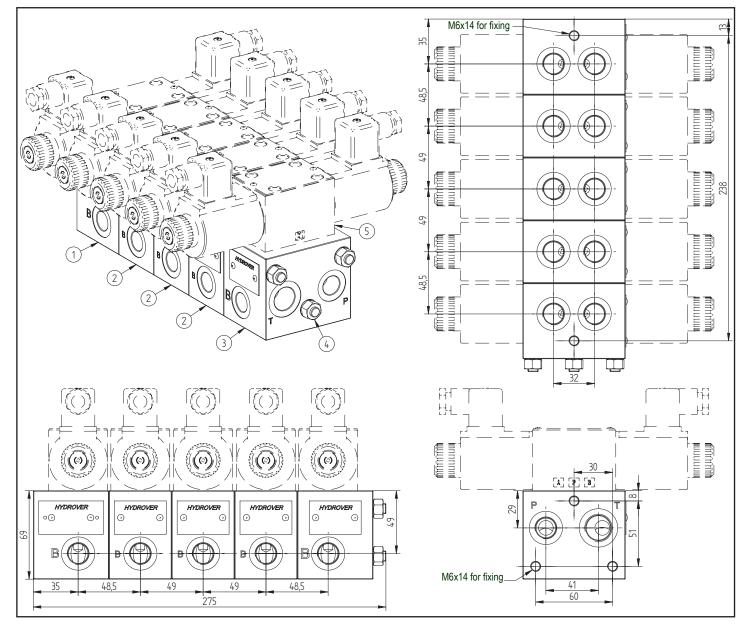
Mounted group sample H31-G1 H31-G1

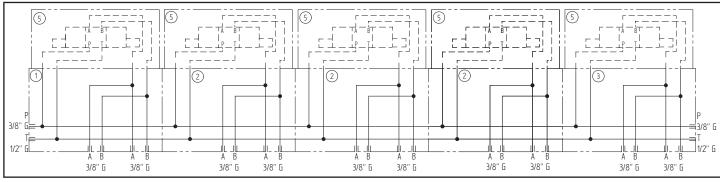
N°	Ordering code	Description	Q.ty
1	H3104A1P-S2-E0-OC1	Subplate with one Cetop 3 station / 40-200 bar relief valve / bypass valve / back A-B 3/8" G / crossing P 3/8" G - T 1/2" G / 24V DC DIN	1
2	H3105A	Intermediate / closing module with 1 Cetop 3 station / side A-B ports	2
3	H3101A	Intermediate / closing module with 1 Cetop 3 station / side A-B ports	1
4	HKVM8X160-3	Assembling kit HKVM8X160-3	1
5	TPCLG 1/4	Plug DIN908 1/4"G	2
6	Cetop 3 valve 4/3	Cetop 3 4/3 valve	4



Mounted group sample H31-G2 H31-G2

N°	Ordering code	Description	Q.ty
1	H3100A1P	Subplate with one Cetop 3 station / Back and side A-B 3/8" G ports / crossing P 3/8" G - T 1/2" G	1
2	H3101A	Intermediate / closing module with 1 Cetop 3 station / side A-B ports	3
3	H3102A	Closing module with one Cetop 3 station / Back and side A-B 3/8" G ports / crossing P 3/8" G - T 3/8" G	1
4	HKTM8X225DL-3	Assembling kit HKTM8X225DL-3	1
5	Cetop 3 valve 4/3	Cetop 3 4/3 valve	4

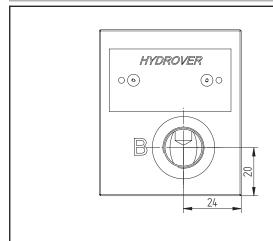




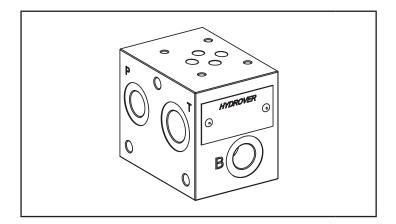


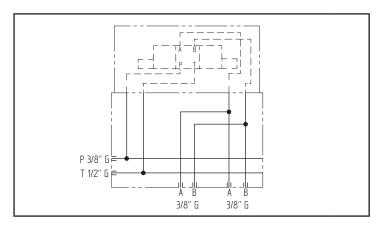
Inlet subplate with 1 station / side and back A-B ports / crossing P-T ports

H3100

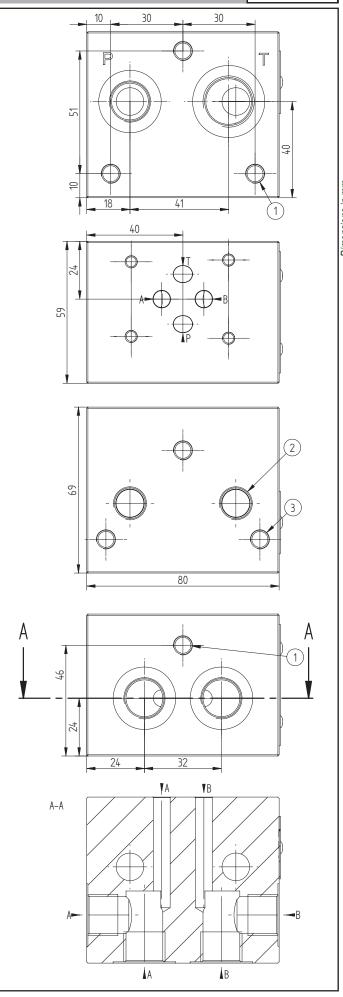


Technical data	
Max. pressure	250 bar
Weight	0,8 Kg
Manifold material	Aluminium
A / B / P ports	3/8" G
T port	1/2" G





N°	Description	Q.ty
1	M8x15 thread for mounting	4
2	Ø 11,5 through hole with 1/4" G thread (P-T)	2
3	M8x15 for tie rod	3

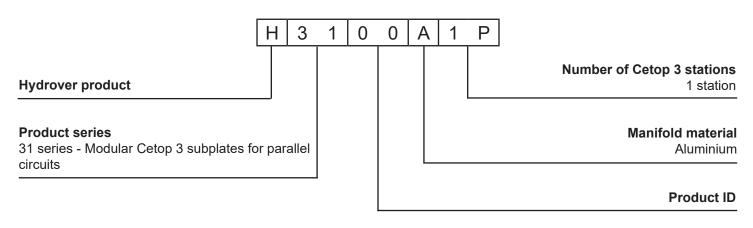




Modular Cetop 3 subplates for parallel circuits 31 SERIES

31 SERIES **H3100**

Ordering code

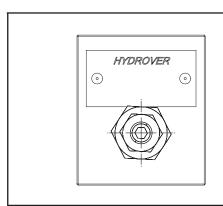


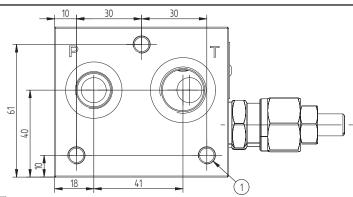
Note: to add stations use the subplates H3101, H3105 and H3102.



Inlet plate with relief valve / crossing and top P-T ports

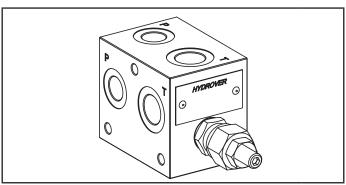
H3103

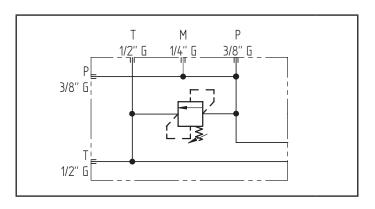


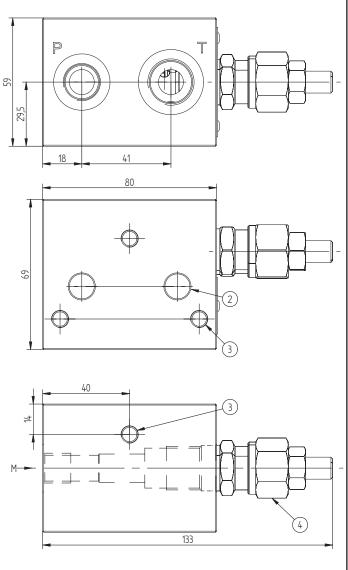


Technical data	
Max. pressure	250 bar
Max. flow	30 lpm *
Weight	1 Kg
Manifold material	Aluminium
M port	1/4" G
P port	3/8" G
T port	1/2" G









N°	Description	Q.ty
1	M8x15 thread for mounting	4
2	Ø 11,5 through hole with 1/4" G thread (P-T)	2
3	M8x15 for tie rod	3
4	Bosch Rexroth relief valve VS-30 * depicted with screw adjustment	1

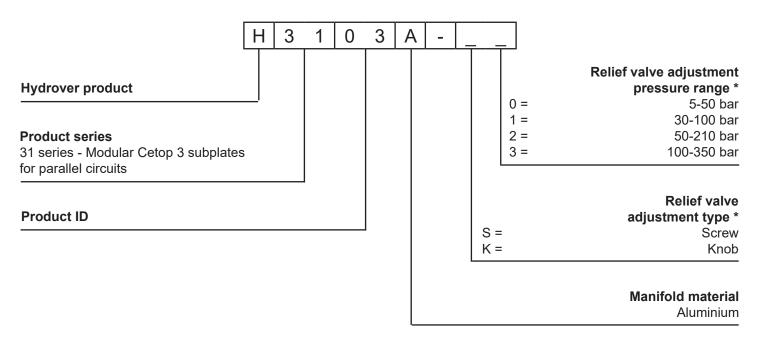
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Modular Cetop 3 subplates for parallel circuits 31 SERIES

31 SERIES **H3103**

Ordering code



^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H3103A.

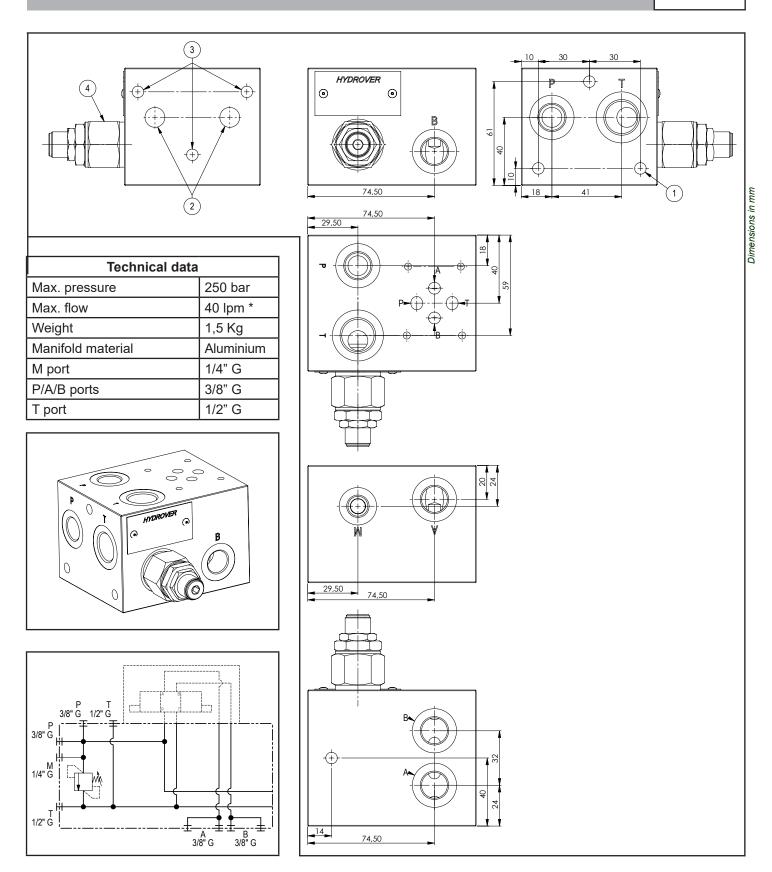
The manifold will still be provided with the corrisponding cavity.

Note: to add stations use the subplates H3101, H3105 and H3102.



Inlet subplate with 1 station and relief valve / side and back P-T-A-B ports

H3112



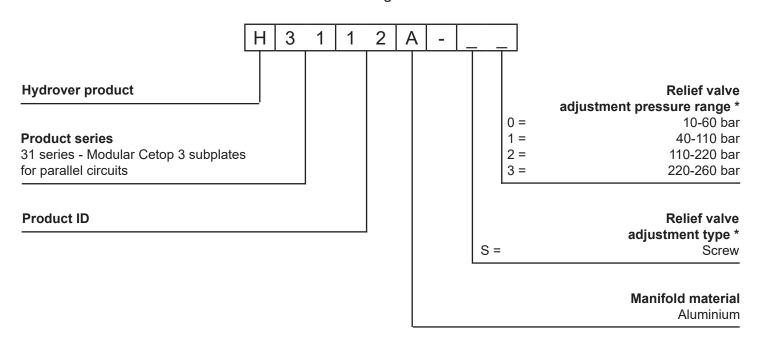
N°	Description	Q.ty
1	M8x15 thread for mounting	4
2	Ø 11,5 through hole with 1/4" G thread (P-T)	2
3	M8x15 for tie rod	3
4	Bosch Rexroth relief valve VMD1.070 *	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



31 SERIES **H3112**

Ordering code



^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H3112A.

The manifold will still be provided with the corrisponding cavity.

To inhibit the relief valve, replace the valve options with TL: H3112A-TL.

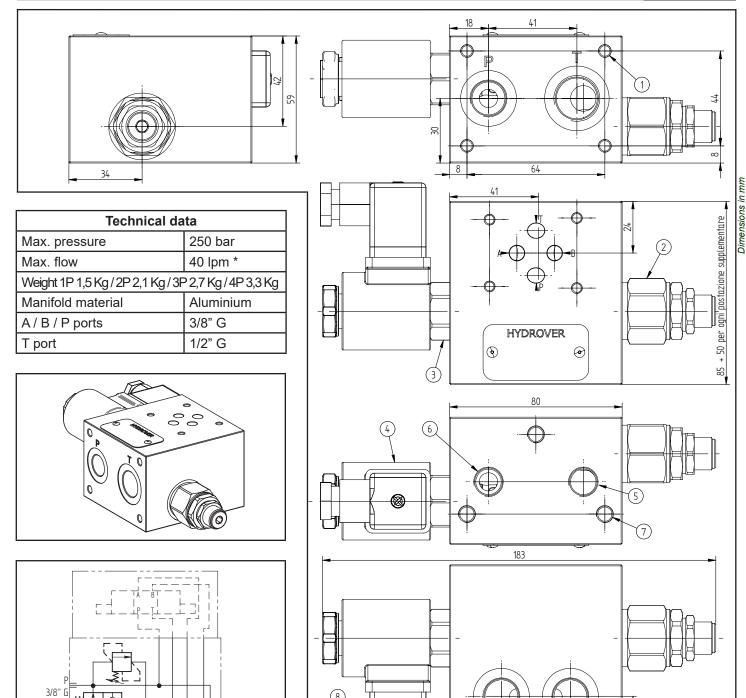
In the cavity it will be mounted a long plug.

Valve	Cavity	Long plug code
Pressure relief valve VMD1.070	CA-10A-2N	0489A2008500000

Note: to add stations use the subplates H3101, H3105 and H3102.

Inlet monoblock subplate from 1 to 4 stations / extensible relief and bypass valve / back A-B ports / crossing P-T ports

H3104



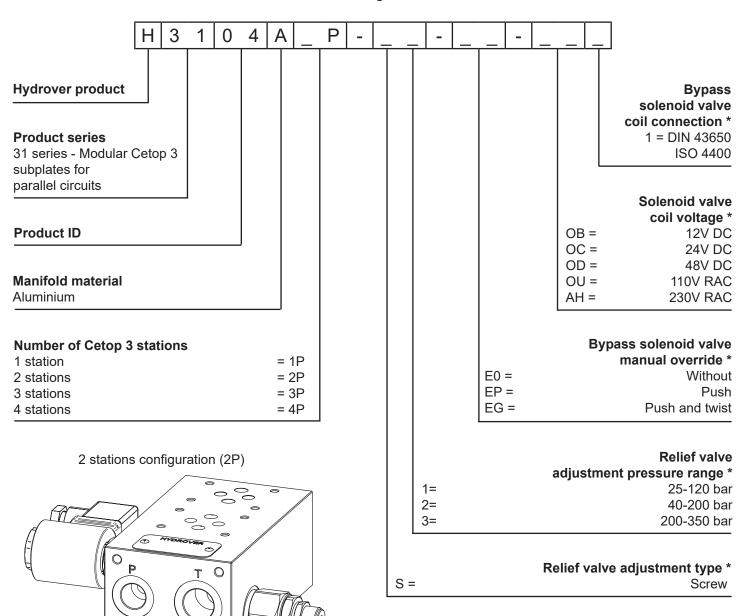
N°	Description	Q.ty
1	M6x14 thread for mounting	4
2	Bosch Rexroth relief valve VMD1.040 *	1
3	Bosch Rexroth bypass solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000 depicted without manual override *	1
4	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
5	Ø 11,5 through hole with 1/4" G thread (T)	1
6	Ø 8,5 through hole with 1/4" G thread (P)	1
7	M8x15 for tie rod	3
8	Connector DIN 43650 ISO 4400	1

А 3/8" Б

3/8" G

31 SERIES **H3104**

Ordering code



* Omit if not required. For example, to order the product without the bypass solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H3104A3P-S2.

The manifold will still be provided with the corrisponding cavity.

To inhibit a function, replace the related valve options with TL: eg H3104A2P-S2-TL.

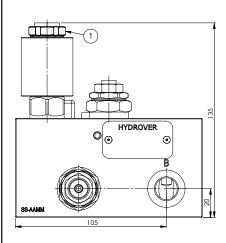
In the cavity it will be mounted a long plug.

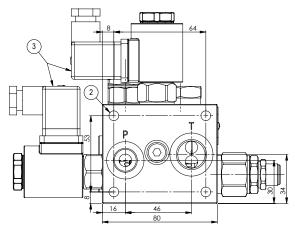
Valve	Cavity	Long plug code
Solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000	CA-08A-2N	0489A2005600000
Pressure relief valve VMD1.040	CA-10A-2N	0489A2008500000

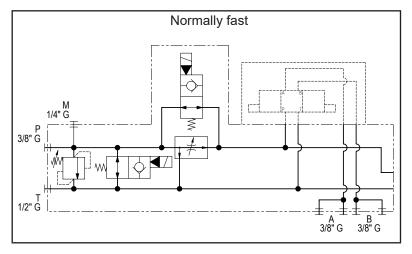
Note: to add stations use the subplates H3101, H3105 and H3102.

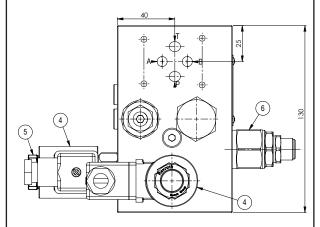
Inlet subplate with 1 Cetop 3 station / extensible / relief and bypass valve 3 way flow regulation / fast slow speed / side and back A-B ports / crossing P-T ports

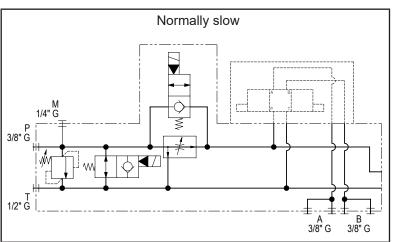
Technical data		
Max. pressure	250 bar	
Inlet max. flow	40 lt/1	
Reg. max. flow	30 lt/1	
Manifold material	Aluminium	
M port	1/8" G	
T port	1/2" G	
A/B/P ports	3/8" G	
Weight	2,4 Kg	

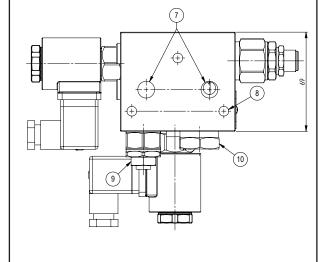


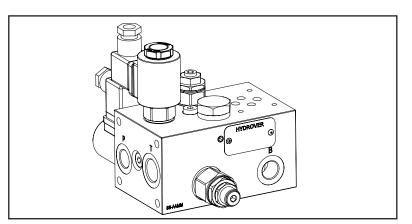


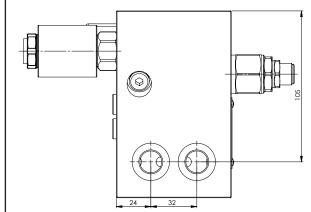






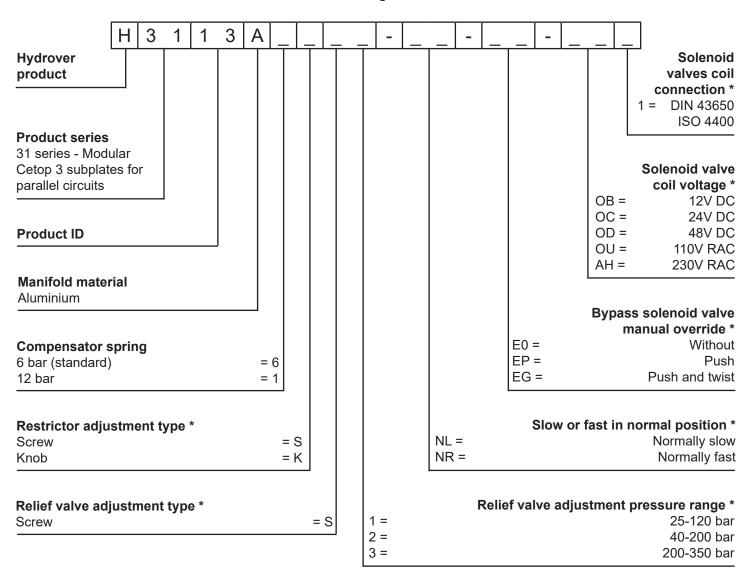






31 SERIES **H3113**

Ordering code



N°	Description	Q.ty
1	Bosch Rexroth solenoid valve for fast slow function VEI-16-08A-NC OD.15.05.18-Y-000000 (normally slow) or VEI-16-08A-NA OD.15.06.18.A.00000 (normally fast) **	1
2	M8x12 thread for mounting	4
3	Connector DIN 43650 ISO 4400	2
4	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 **	2
5	Bosch Rexroth bypass solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000 **	1
6	Bosch Rexroth relief valve VMD1.040 **	1
7	Ø 11,5 through hole with 1/4" G thread (P-T)	2
8	M8x15 for tie rod	3
9	Bosch Rexroth flow restrictor OD.21.01-X-56 ** depicted with screw adjustment	2
10	Compensator	1

^{**} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

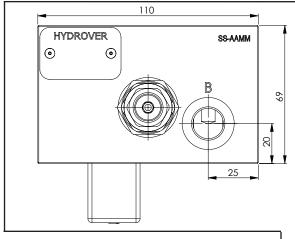
Note: to add stations use the subplates H3101, H3105 and H3102.

^{*} Omit if not required. For example, to order the product without the fast slow solenoid valve, omit the variabile "Slow or fast in normal position": H3113A4SS2-E0-OC1. The manifold will still be provided with the corrisponding cavity. Valves for fast slow and bypass use CA-08A-2N cavity (long plug code **0489A2005600000**), and relief CA-10A-2N cavity (long plug code **0489A2008500000**). To inhibit a function, replace the related valve options with TL: eg H3106A3-S2-TL-TL.

(6)

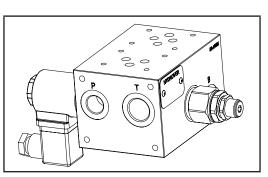
Inlet subplate with 1 Cetop 3 station for 2 or 3 ways flow regulator, 1 Cetop 3 station for directional valve / relief and bypass valves / side and back A-B ports / crossing P-T ports

H3110

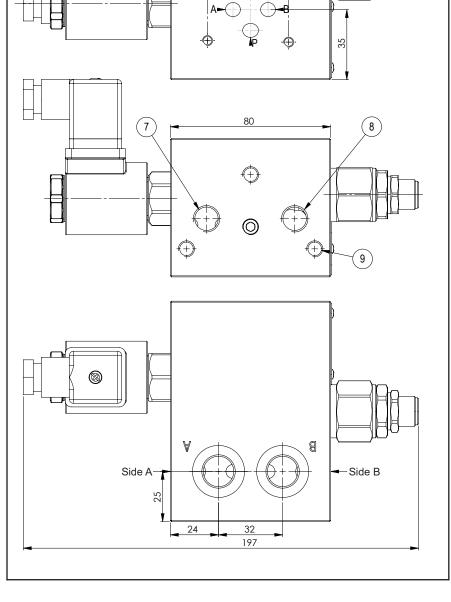


3	4 5
8 64	

Technical data		
Max. pressure	250 bar	
Max. flow	40 lpm *	
Weight	2 Kg	
Manifold material	Aluminium	
M port	1/8" G	
A / B / P ports	3/8" G	
T port	1/2" G	



Note: to add stations use the subplates H3101, H3105 and H3102.



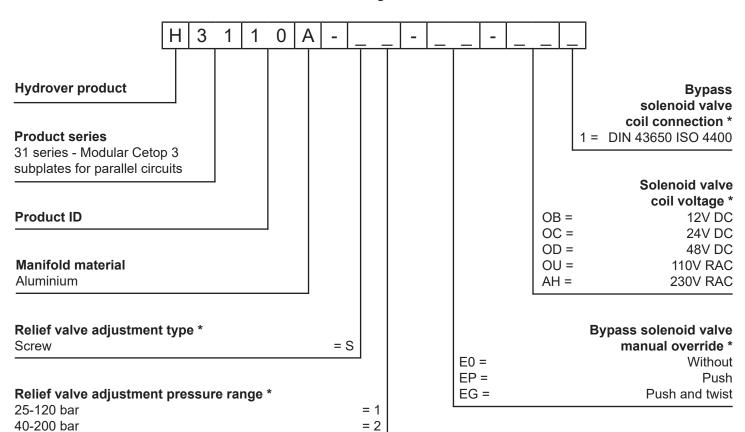


200-350 bar

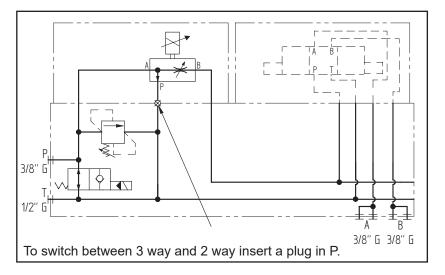
Modular Cetop 3 subplates for parallel circuits 31 SERIES

31 SERIES **H3110**

Ordering code



= 3



* Omit if not required. For example, to order the product without the bypass solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H3110A-S2.

The manifold will still be provided with the corrisponding cavity.

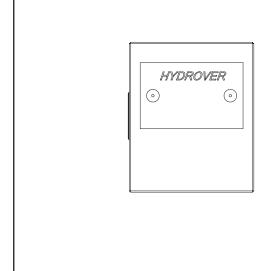
To inhibit a function, replace the related valve options with TL: eg H3110A-S2-TL.

In the cavity it will be mounted a long plug.

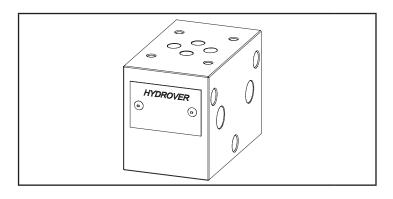
N°	Description	Q.ty
1	Connector DIN 43650 ISO 4400	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 **	1
3	Bosch Rexroth bypass solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000 **	1
4	M6x14 thread for mounting	4
5	Bosch Rexroth relief valve VMD1.040 **	1
6	Station for Cetop 3 proportional flow regulator A in B unload in P - To order separatly	1
7	Ø 8,5 through hole with 1/4" G thread (P)	1
8	Ø 11,5 through hole with 1/4" G thread (T)	1
9	M8x15 for tie rod	3

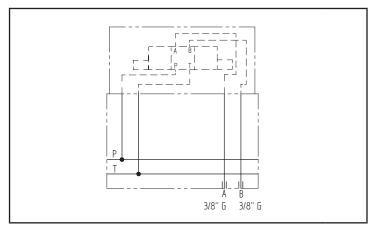
^{**} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

Intermediate / closing subplate with 1 Cetop 3 station / back A-B ports

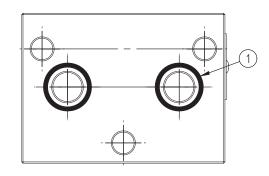


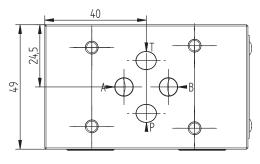
Technical data		
Max. pressure	250 bar	
Weight	0,6 Kg	
Manifold material	Aluminium	
A / B ports	3/8" G	

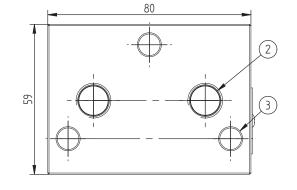


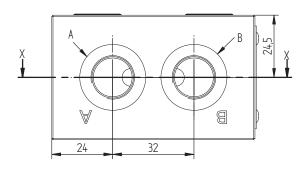


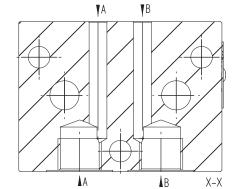
N°	Description	Q.ty
1	OR 2062 i. Ø 15,60 cross section 1,78 (P-T)	2
2	Ø 11,5 through hole with 1/4" G thread (P-T)	2
3	Ø 8,5 through hole for tie rod	3





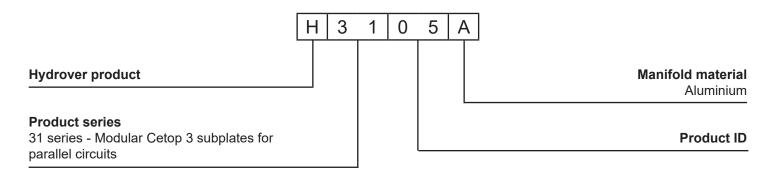






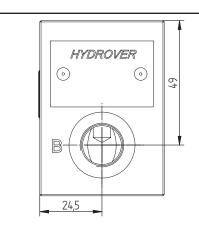


31 SERIES **H3105**

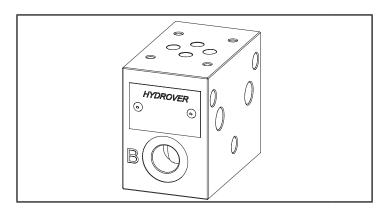


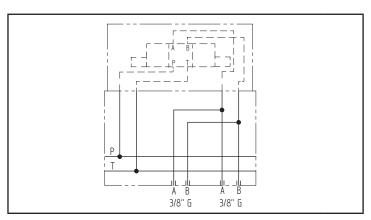
HYDROVER

Intermediate / closing subplate with 1 Cetop 3 station back and side A-B ports

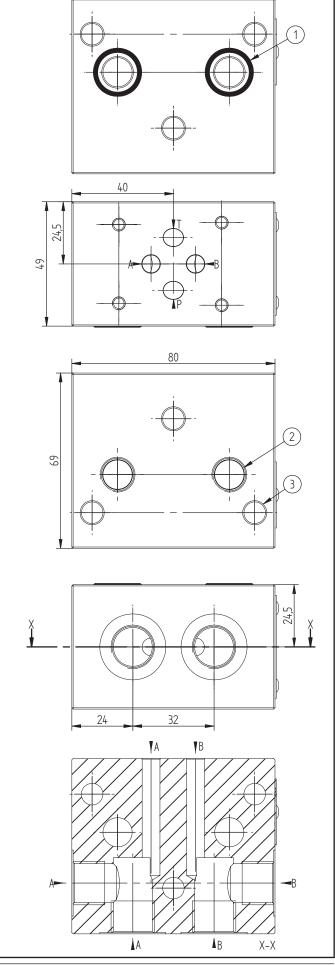


Technical data		
Max. pressure	250 bar	
Weight	0,7 Kg	
Manifold material	Aluminium	
A / B ports	3/8" G	



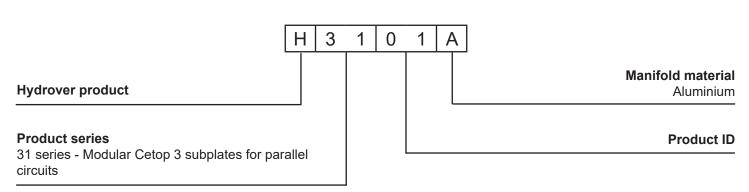


N°	Description	Q.ty
1	OR 2062 i. Ø 15,60 cross section 1,78 (P-T)	2
2	Ø 11,5 through hole with 1/4" G thread (P-T)	2
3	Ø 8,5 through hole for tie rod	3

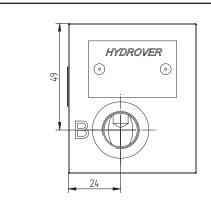




31 SERIES **H3101**

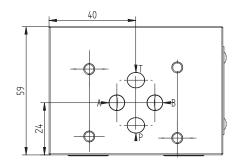


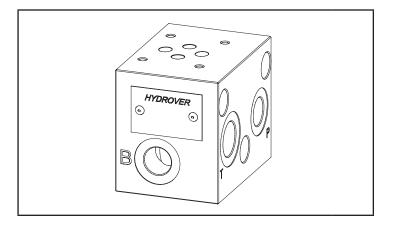
Closing subplate with 1 Cetop 3 station back and side A-B ports / crossing P-T ports

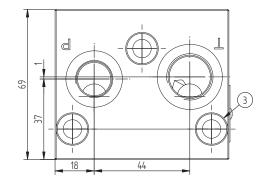


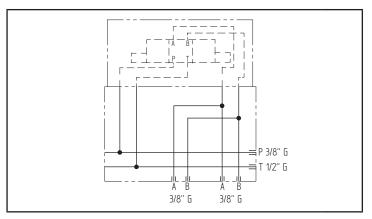
	1 -2
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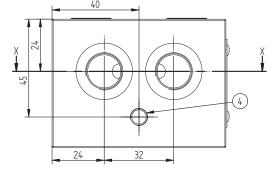
Technical data	
Max. pressure	250 bar
Weight Manifold material	0,8 Kg
	Aluminium
A / B / P ports	3/8" G
T port	1/2" G



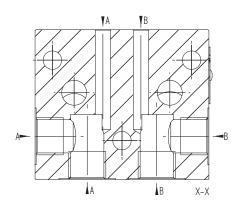






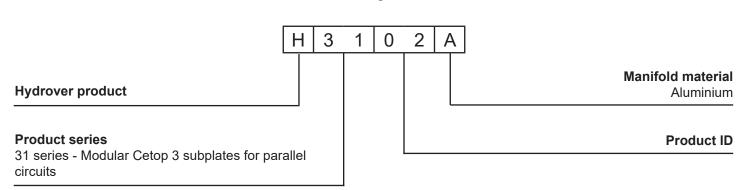


N°	Description	Q.ty
1	OR 2062 i. Ø 15,60 cross section 1,78 (P-T)	2
2	Ø 11,5 through hole (P-T)	2
3	Ø 8,5 through hole with counterbore for tie rod	3
4	M8x15 thread for mounting	1



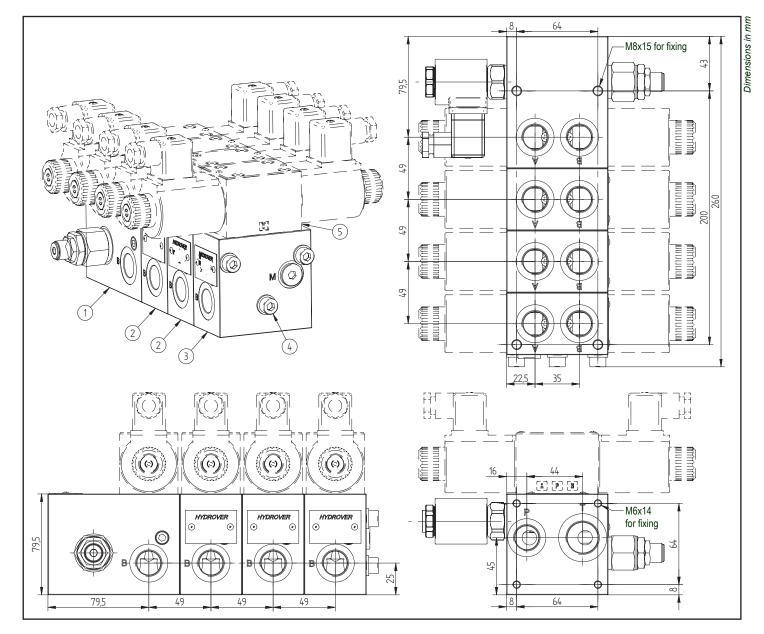


H3102



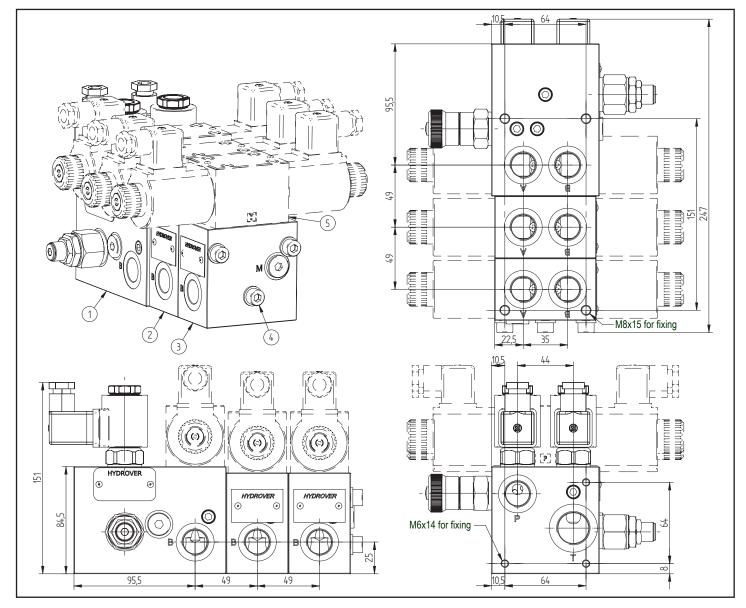
High flow rate mounted group sample H31-G3 H31-G3

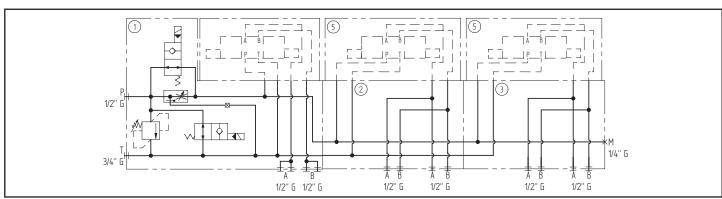
N°	Ordering code Description		Q.ty
1	H3107A-S2-E0-OC1	High flow rate inlet subplate with 1 Cetop 3 station, extensible / 110-220 bar relief valve / bypass valve / Side and back A-B ports / Crossing P-T ports / 24V DC DIN	1
2	2 H3108A High flow rate intermediate subplate with 1 Cetop 3 station / Side and back A-B ports		2
3	H3109A	High flow rate closing subplate with 1 Cetop 3 station / Side and back A-B ports	1
4	HKVM8X160-3	Assembling kit HKVM8X160-3	1
5	Cetop 3 valve 4/3	Cetop 3 4/3 valve	4



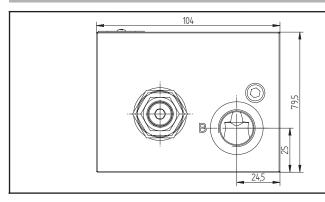
High flow rate mounted group sample H31-G4 H31-G4

N°	Ordering code	Description	Q.ty
1	H3106A3NR-S2-E0-OC1	High flow rate inlet subplate with 1 Cetop 3 station, extensible / 110-220 bar relief valve / bypass valve / 2 or 3 way flow regulation normally slow fast slow speed / Side and back A-B ports / Crossing P-T ports / 24V DC DIN	1
2	H3108A	High flow rate intermediate subplate with 1 Cetop 3 station / Side and back A-B ports.	1
3	H3109A	High flow rate closing subplate with 1 Cetop 3 station / Side and back A-B ports	1
4	HKVM8X160-3	Assembling kit HKVM8X160-3	1
5	Cetop 3 valve 4/3	Cetop 3 4/3 valve	4

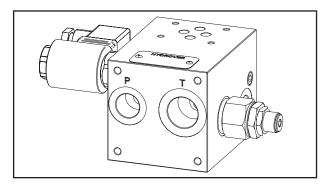


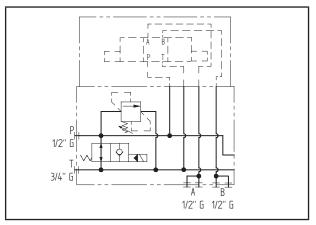


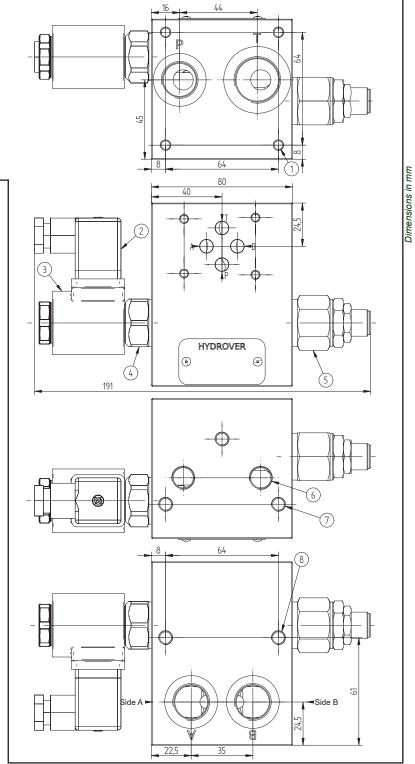
High flow rate inlet subplate with 1 Cetop 3 station / extensible relief and bypass valve / side and back A-B ports / crossing P-T ports



Technical data	
Max. pressure	250 bar
Max. flow	70 lpm *
Weight	2,1 Kg
Manifold material	Aluminium
A / B / P ports	1/2" G
T port	3/4" G







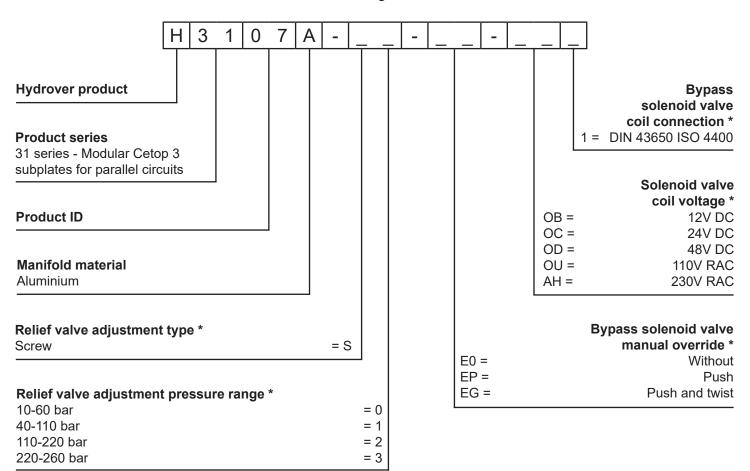
N°	Description	Q.ty
1	M6x14 thread for mounting	4
2	Connector DIN 43650 ISO 4400	1
3	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
4	Bosch Rexroth bypass solenoid valve VEI-16-10A-NA OD.15.06.36-Y-000000 *	1
5	Bosch Rexroth relief valve VMD1.070 *	1
6	Ø 11,5 through hole with 1/4" G thread (P-T)	2
7	M8x15 for tie rod	3
8	M8x15 thread for mounting	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



31 SERIES **H3107**

Ordering code



* Omit if not required. For example, to order the product without the bypass solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H3107A-S2.

The manifold will still be provided with the corrisponding cavity.

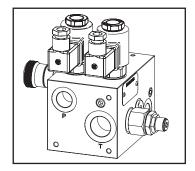
To inhibit a function, replace the related valve options with TL: eg H3107A-S2-TL.

In the cavity it will be mounted a long plug.

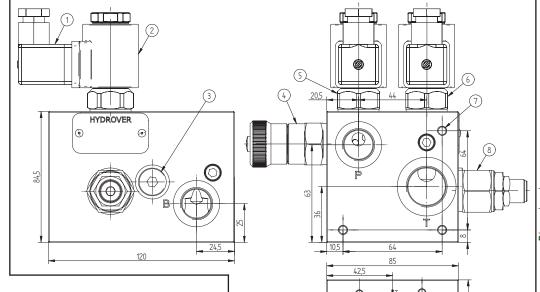
Valve	Cavity	Long plug code
Solenoid valve VEI-16-10A-NA OD.15.06.36-Y-000000	CA-10A-2N	0489A2008500000
Pressure relief valve VMD1.070	CA-10A-2N	0489A2008500000

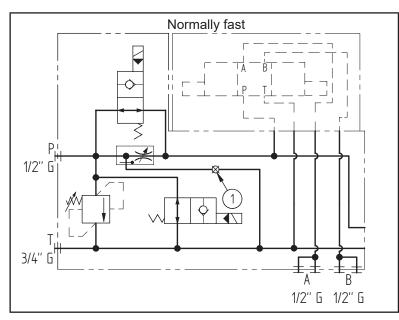
Note: to add stations use the subplates H3108 and H3109.

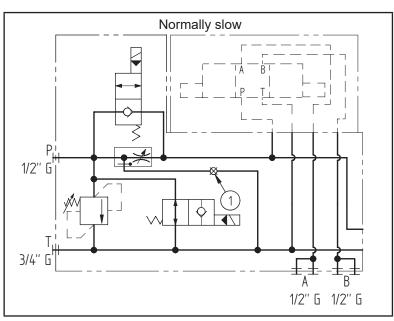
High flow rate inlet subplate with 1 Cetop 3 station / extensible / relief and bypass valve 2 or 3 way flow regulation / fast slow speed / side and back A-B ports / crossing P-T ports

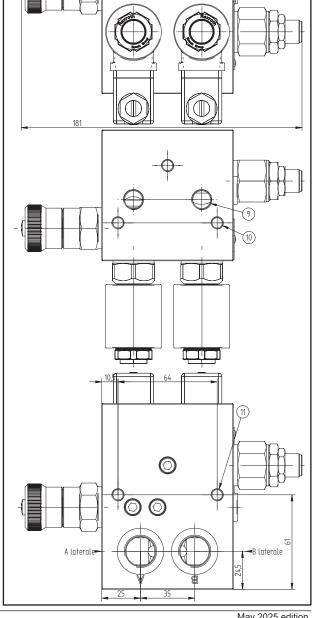


lata
250 bar
60 lt/1 *
30 lt/1 *
Aluminium
3/4" G
1/2" G
3,1 Kg



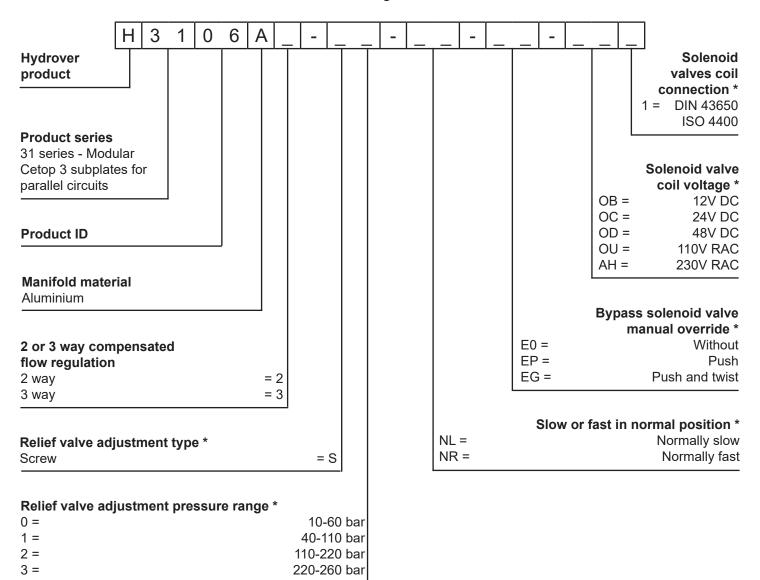








31 SERIES **H3106**



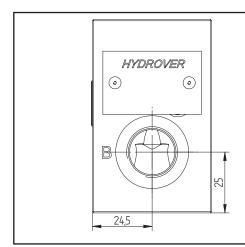
N°	Description	Q.ty
1	Connector DIN 43650 ISO 4400	2
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 **	2
3	1/4" G cylindrical plug - For the cavity where there is the 1/8" DIN 906 conical plug to switch from 2 to 3 way	1
4	Compensated flow regulator 04.04.02.40.85.40 - VRFD-10A-M-40 **	1
5	Bosch Rexroth solenoid valve for fast slow function OD.15.05.36.A.000000 * (normally slow) or OD.15.06.36.A.000000 * (normally fast)	1
6	Bosch Rexroth bypass solenoid valve OD.15.06.36-Y-000000 **	1
7	M6x14 thread for mounting	3
8	Bosch Rexroth relief valve VMD1.070 **	1
9	Ø 11,5 through hole with 1/4" G thread (P-T)	2
10	M8x15 for tie rod	3
11	M8x15 thread for mounting	2

^{**} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

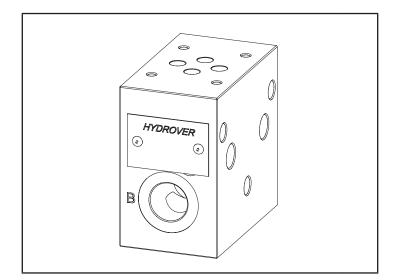
^{*} Omit if not required. For example, to order the product without the fast slow solenoid valve, omit the variabile "Slow or fast in normal position": H3106A3-S2-E0-OC1. The manifold will still be provided with the corrisponding cavity. Valves for fast slow, bypass and relief use the CA-10A-2N cavity (long plug code **0489A2008500000**). To inhibit a function, replace the related valve options with TL: eg H3106A3-S2-TL-TL.

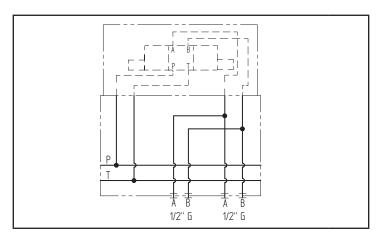
Note: to add stations use the subplates **H3108** and **H3109**.

High flow rate intermediate subplate with 1 Cetop 3 station side and back A-B ports

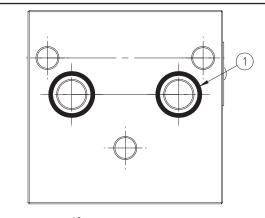


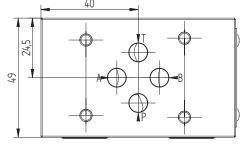
Technical data	
Max. pressure	250 bar
Weight	0,8 Kg
Manifold material	Aluminium
A / B ports	1/2" G

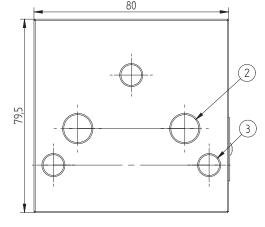


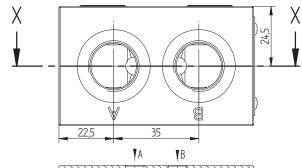


N°	Description	
1	OR 2062 i. Ø 15,60 cross section 1,78 (P-T)	2
2	Ø 11,5 through hole (P-T)	2
3	Ø 8,5 through hole for tie rod	3





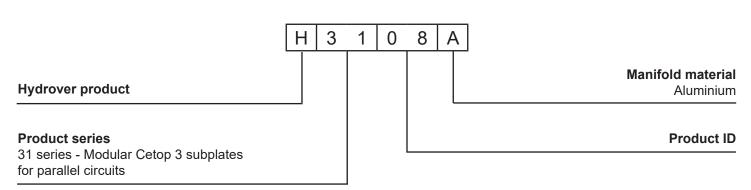




	A A R	
A-		⊸ B
ÅA	ÅB	X-X

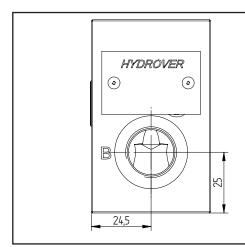


31 SERIES **H3108**

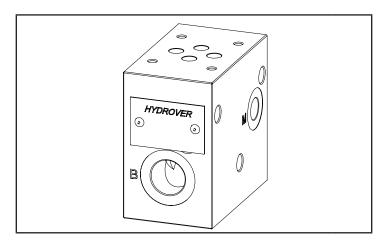


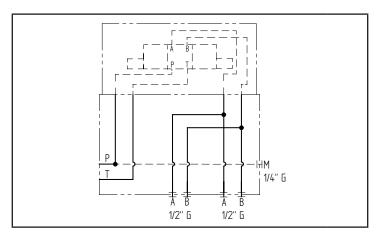
High flow rate closing subplate with 1 Cetop 3 station side and back A-B ports

H3109

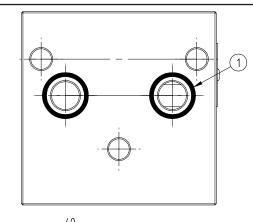


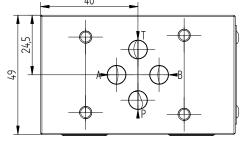
Technical data		
Max. pressure	250 bar	
Weight	0,8 Kg	
Manifold material	Aluminium	
M port	1/4" G	
A / B ports	1/2" G	

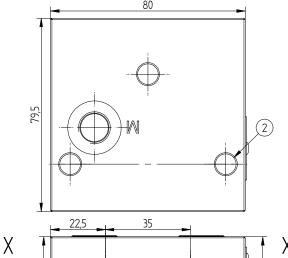


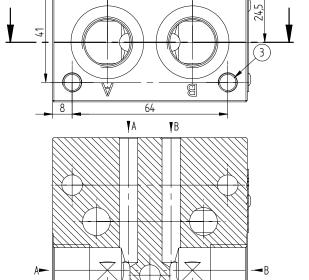


N°	Description	Q.ty
1	OR 2062 i. Ø 15,60 cross section 1,78 (P-T)	2
2	Ø 8,5 through hole for tie rod	3
3	M8x15 thread for mounting	2





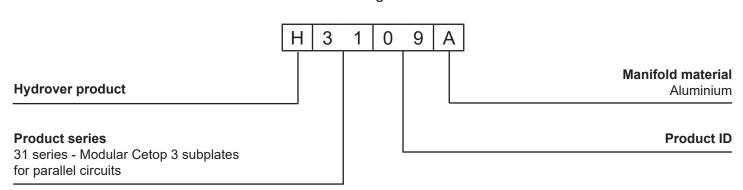




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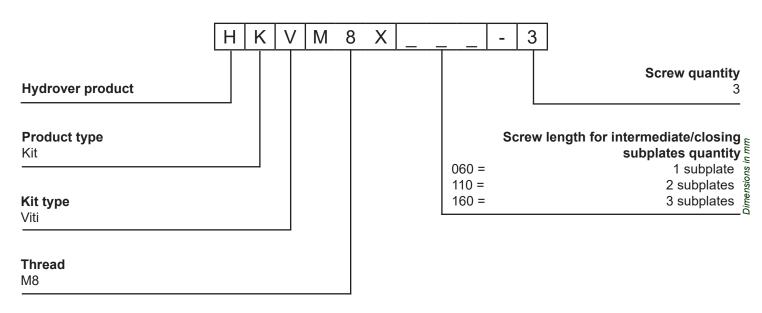


31 SERIES **H3109**

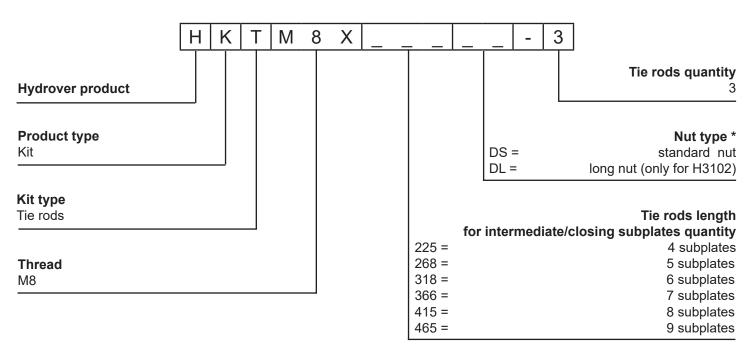


Assembling kit

Ordering code for assemblies with 1 to 3 intermediate/closing subplates

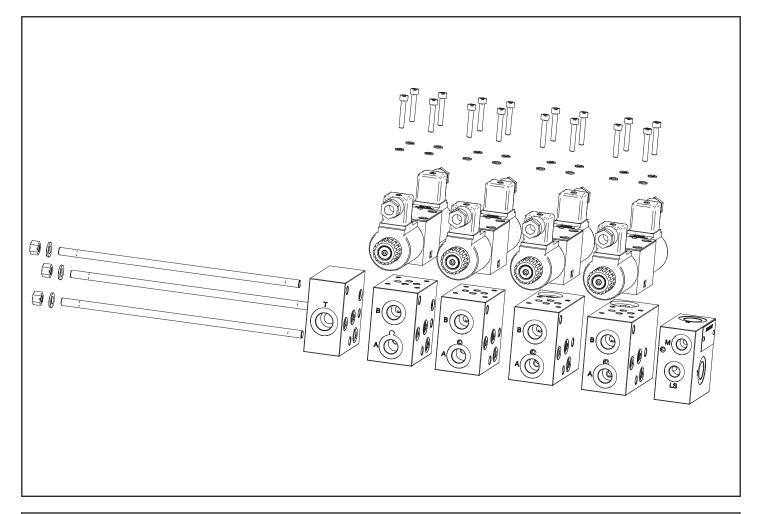


Ordering code for assemblies with 4 to 9 intermediate/closing subplates





32 SERIES Load sensing modular Cetop 3 subplates for parallel circuits



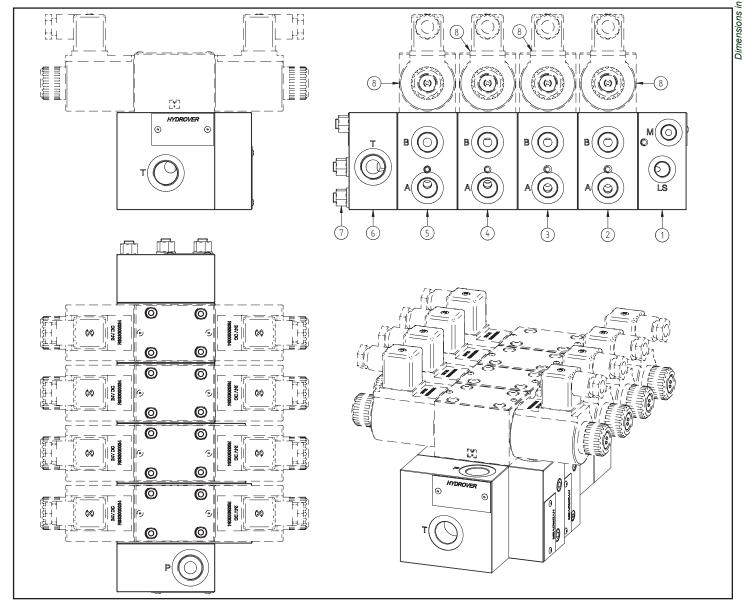
32 SERIES products give you the possibility to build Cetop 3 load sensing systems for variable displacement pumps or gear pumps.

Intermediate subplates could have a 2 ways compensated flow regulation.

The optional "Carry Over" function let you sending the extra oil to another system. 32 SERIES need Cetop 3 valves with A/B in T in neutral position. So if there is a load to sustain, you will have to add check valves or counterbalance valves. Maximum inlet flow is 90 lpm, maximum operating pressure 250 bar (Aluminium manifolds). We can build on request steel manifolds for a maximum operating pressure of 350 bar.

Mounted group sample H32-G1 H32-G1

N°	Ordering code	Description	Q.ty
1	H3203A	Inlet plate for variable displacement pump	1
2	H3207A-20	Intermediate subplate with 2 way compensated flow regulator 20 lpm fixed flow rate	1
3	H3205A-14	Intermediate subplate with 2 way compensated flow regulator 14 lpm fixed flow rate	1
4	H3201A-05	Intermediate subplate with 2 way compensated flow regulator 5 lpm fixed flow rate	1
5	H3206A	Intermediate subplate with 1 Cetop 3 station / Side A-B ports	1
6	H3202A	Closing plate with T port	1
7	HKTM8X268-3	Assembling kit HKTM8X268-3	1
8	Cetop 3 valve 4/3	Cetop 3 valve 4/3	4



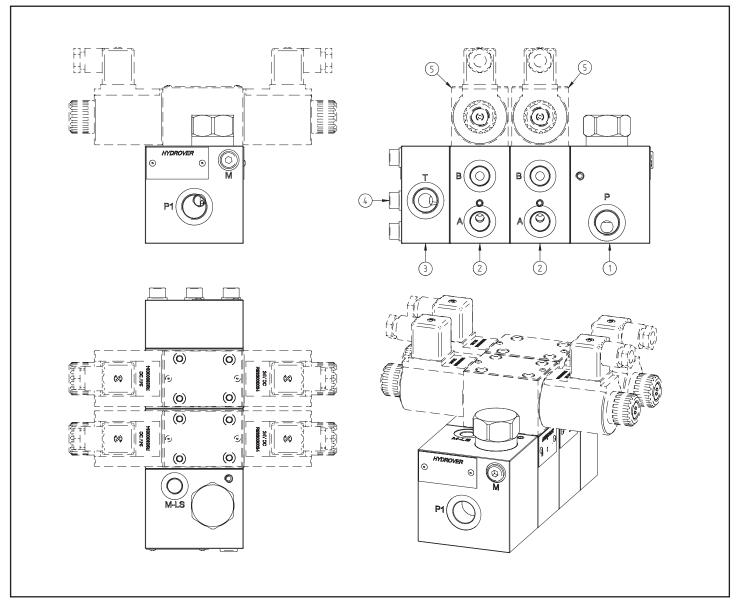


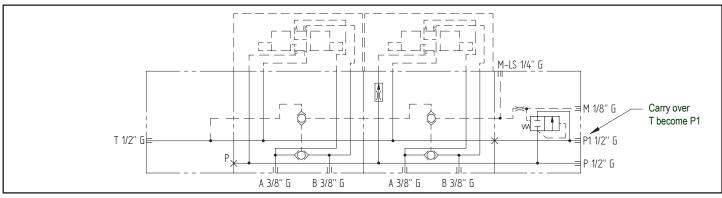
Load sensing modular Cetop 3 subplates for parallel circuits 32 SERIES

Mounted group sample H32-G2

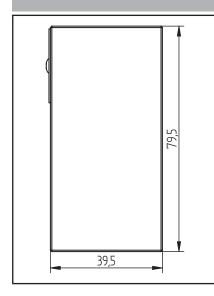
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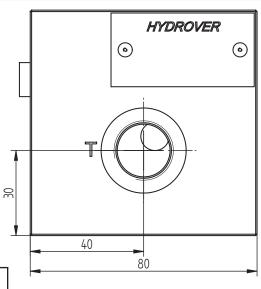
N°	Ordering code	Description	Q.ty
1	H3204A6-CO	Inlet plate 3 way compensated for fixed displacement pump with carry over	1
2	H3206A	Intermediate subplate with 1 Cetop 3 station / Side A-B ports	2
3	H3202A	Closing plate with T port	1
4	HKVM8X150-3	Assembling kit HKVM8X150-3	1
5	Cetop 3 valve 4/3	Cetop 3 valve 4/3	2

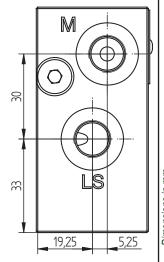




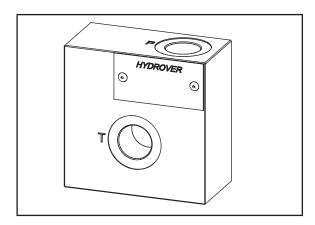
Inlet plate for variable displacement pump

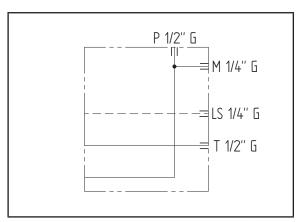




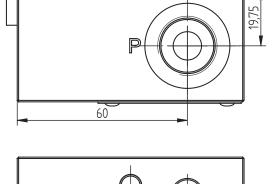


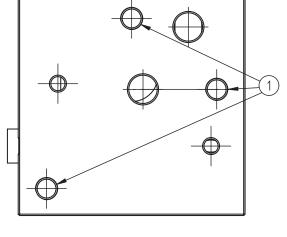
Technical data	
Max. pressure	250 bar
Weight	0,7 Kg
Manifold material	Aluminium
LS / M ports	1/4" G
P / T ports	1/2" G

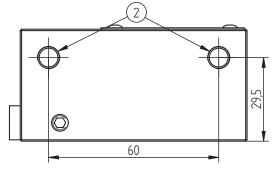




N°	Description	Q.ty
1	M8x13 for tie rod	3
2	M8x15 thread for mounting	2



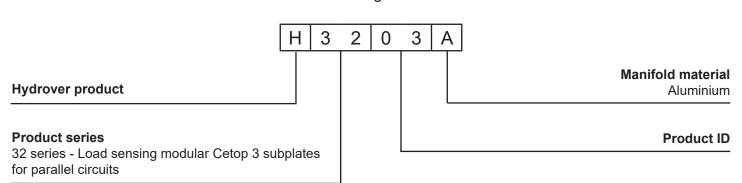






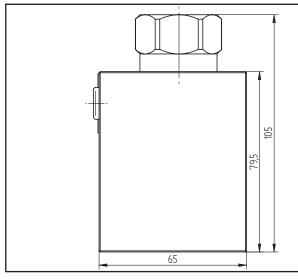
Load sensing modular Cetop 3 subplates for parallel circuits 32 SERIES

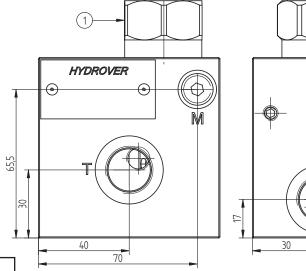
32 SERIES **H3203**



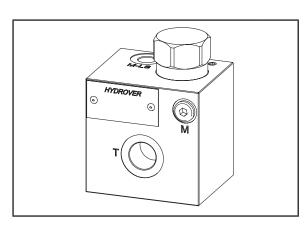
Inlet plate 3 way compensated for fixed displacement pump

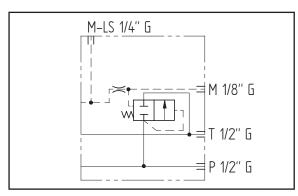




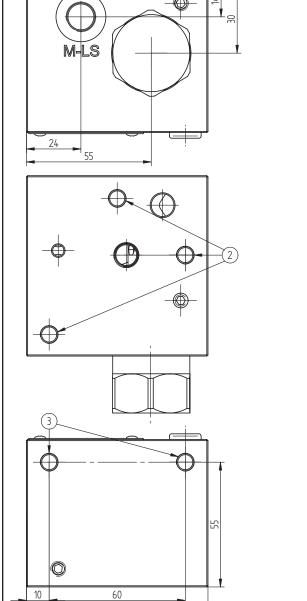


Technical data		
Max. pressure	250 bar	
Max. flow	90 lpm	
Weight	1,5 Kg	
Manifold material	Aluminium	
M port	1/8" G	
M-LS port	1/4" G	
P / T ports	1/2" G	





N°	Description	
1	Pressure compensator	1
2	M8x13 for tie rod	3
3	M8x15 thread for mounting	2

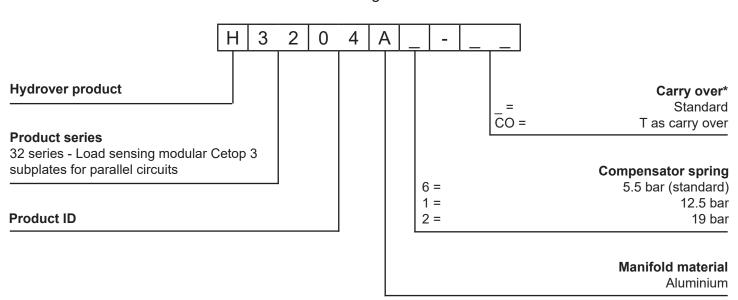




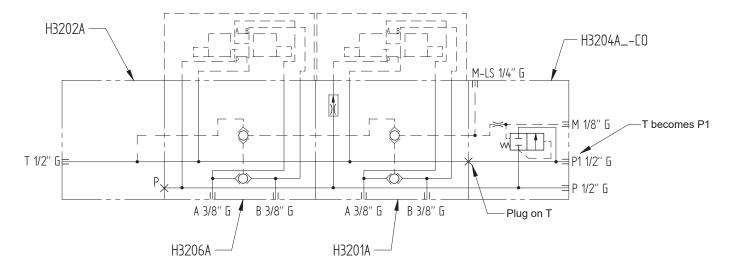
Load sensing modular Cetop 3 subplates for parallel circuits 32 SERIES



Ordering code



* The Carry over version have a plug on T. Authorizes the use of the flow in excess. T becomes P1.

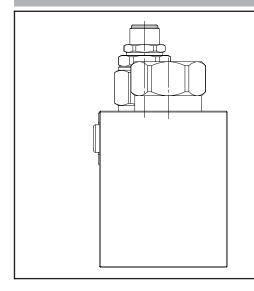


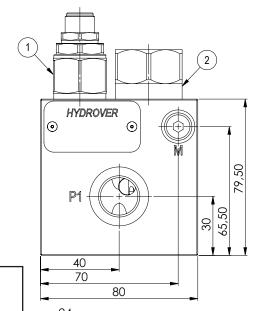


Load sensing modular Cetop 3 subplates for parallel circuits 32 SERIES

Inlet plate 3 way compensated with relief valve for fixed displacement pump

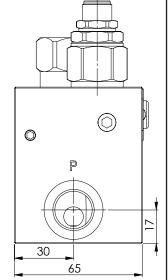
H3219



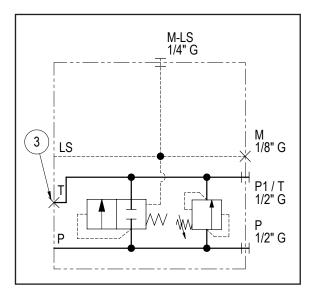


M-LS

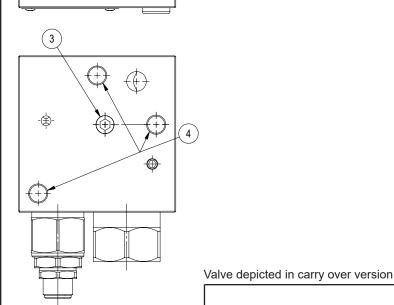
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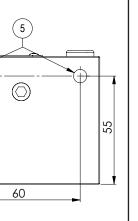


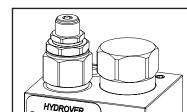
Technical data		
Max. pressure	250 bar	
Max. flow	70 lpm	
Weight	1,6 Kg	
Manifold material	Aluminium	
M port	1/8" G	
M-LS port	1/4" G	
P / T (P1) ports	1/2" G	



N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.070 *	1
2	Pressure compensator	1
3	Plug on T for carry over versions	1
4	M8x13 for tie rod	3
5	M8x15 thread for mounting	2





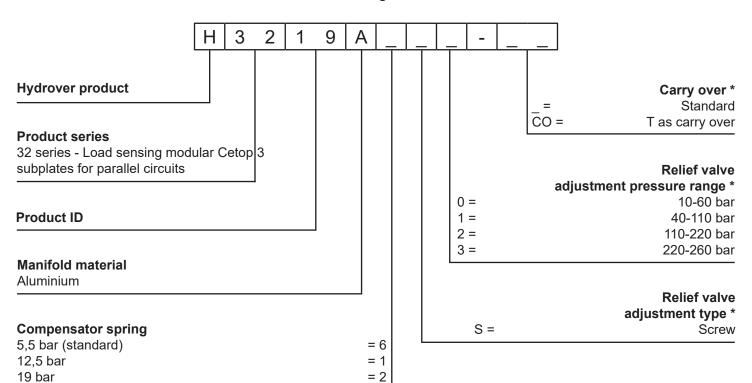


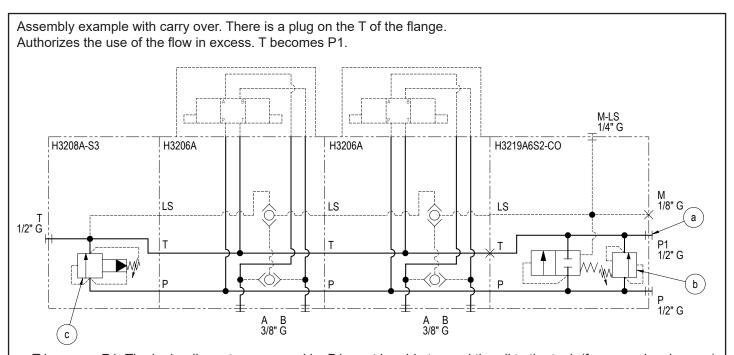
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32 SERIES **H3219**



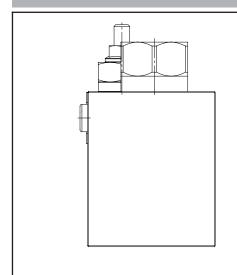


- a. T becomes P1. The hydraulic system powered by P1 must be able to send the oil to the tank (for example a bypass).
- b. The main block relief valve is active when the hydraulic system supplied by P1 send the oil to the tank.
- c. This relief valve is active for the main block and P1 if the hydraulic system supplied by P1 don't send the oil to the tank. The pressure setting of this relief valve must be higher than the b relief valve.

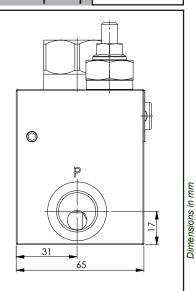


Load sensing modular Cetop 3 subplates for parallel circuits 32 SERIES

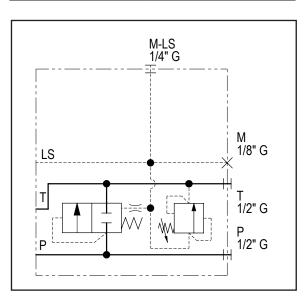
Inlet plate 3 way compensated with relief valve for fixed displacement pump



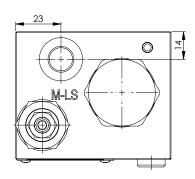
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	T		SS-AA	мм	30 65,50	79
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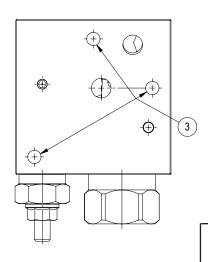


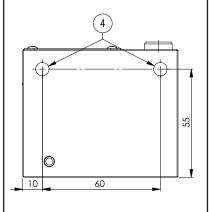
Technical data		
Max. pressure	250 bar	
Max. flow	90 lpm	
Weight	1,4 Kg	
Manifold material	Aluminium	
M port	1/8" G	
M-LS port	1/4" G	
P / T ports	1/2" G	

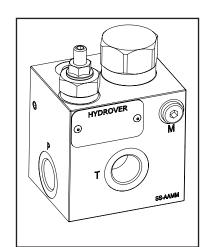


N°	Description	Q.ty
1	Bosch Rexroth relief valve VSBN- 08A *	1
2	Pressure compensator	1
3	M8x13 for tie rod	3
4	M8x15 thread for mounting	2





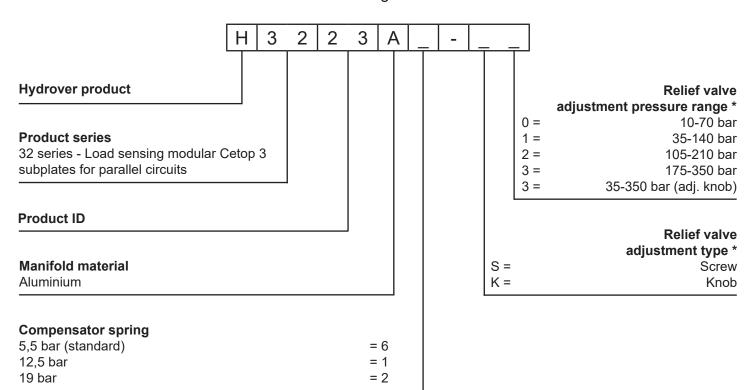






Load sensing modular Cetop 3 subplates for parallel circuits 32 SERIES

32 SERIES **H3223**



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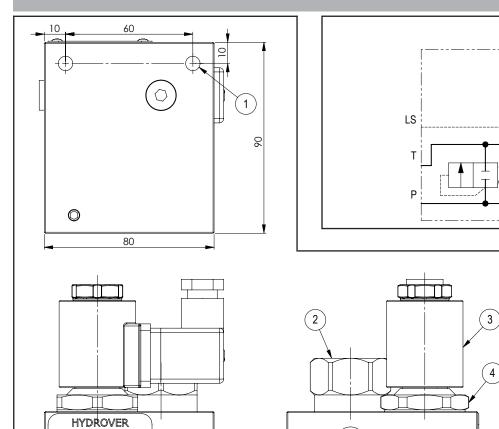
Inlet plate 3 way compensated with bypass valve for fixed displacement pump

H3213

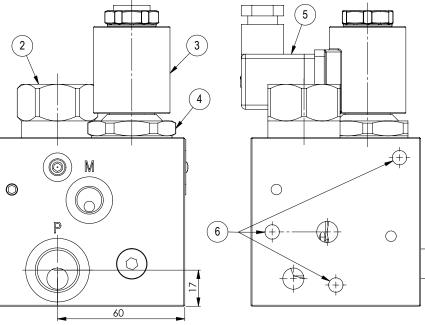
M 1/8" G

1/2" G

P 1/2" G



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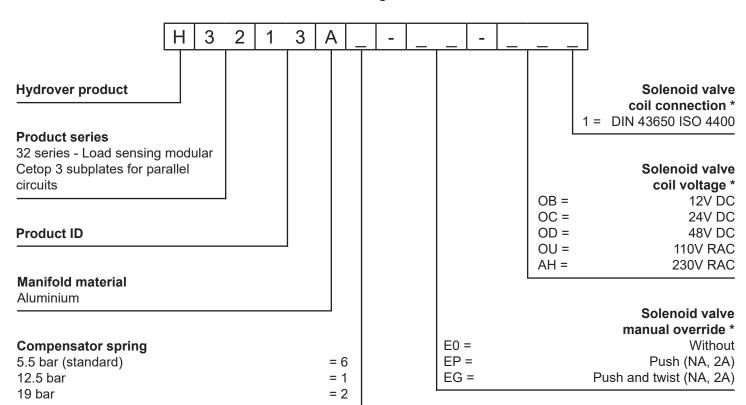
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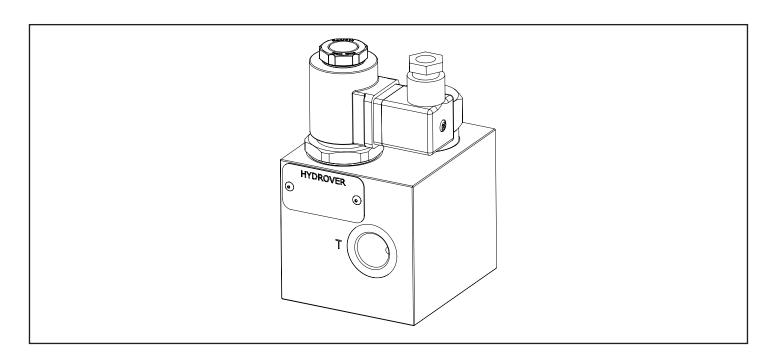
Technical data		
Max. pressure	250 bar	
Max. flow	90 lpm *	
Weight	2,2 Kg	
Manifold material	Aluminium	
M port	1/8" G	
M-LS port	1/4" G	
P / T ports	1/2" G	

N°	Description	Q.ty
1	M8x15 thread for mounting	2
2	Pressure compensator	1
3	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
4	Bosch Rexroth solenoid valve OD.15.06.21-Y-00000	1
5	Connector DIN 43650 ISO 4400	1
6	M8x15 for tie rod	3

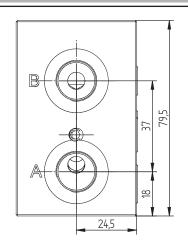


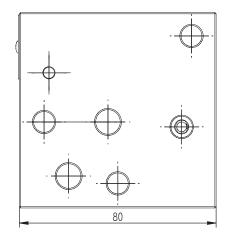
32 SERIES **H3213**

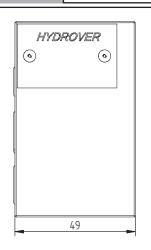




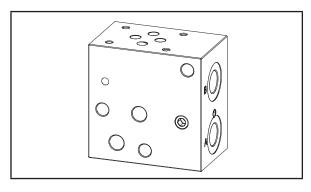
Intermediate subplate with 1 Cetop 3 station / side A-B ports

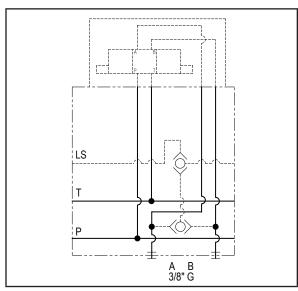




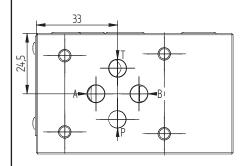


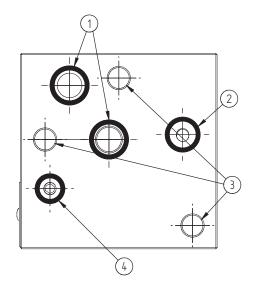
Technical data		
Max. pressure	250 bar	
Weight	0,8 Kg	
Manifold material	Aluminium	
A / B ports	3/8" G	

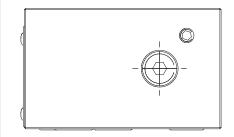




N°	l° Description	
1	OR 2050 i. Ø 12,42 c. s. 1,78 (P-T)	2
2	OR 2043 i. Ø 10,82 c. s. 1,78 (LS-FS)	1
3	Ø 8,5 through hole for tie rod 3	
4	OR 108 i. Ø 8,73 c. s. 1,78	1

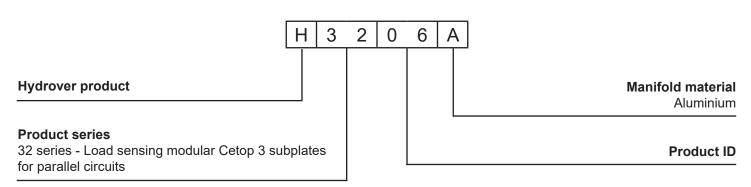




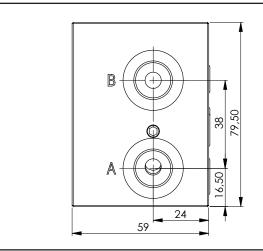




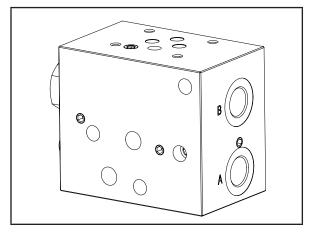
32 SERIES **H3206**

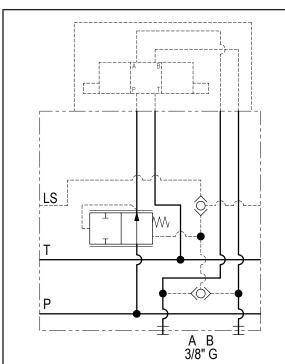


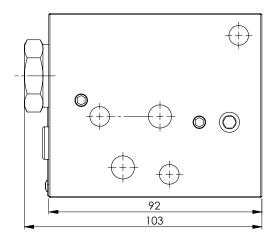
Intermediate subplate 2 way compensated with 1 Cetop 3 station side A-B ports

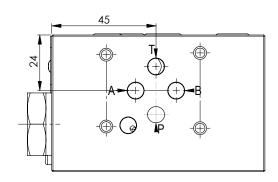


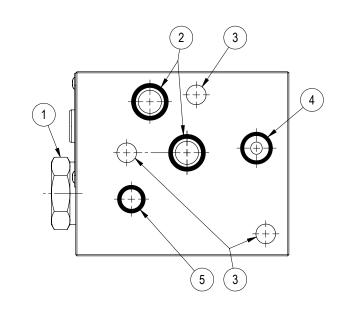
Technical data		
Max. pressure	250 bar	
Weight	1,2 Kg	
Manifold material	Aluminium	
A / B ports	3/8" G	







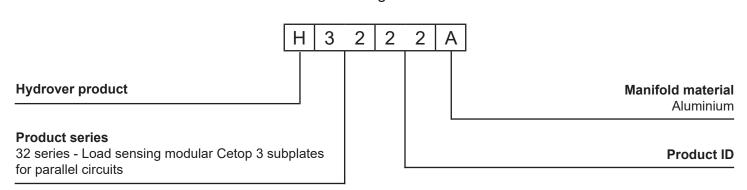




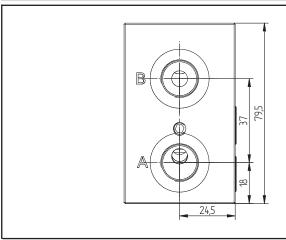
N°	Description	
1	Pressure compensator	1
2	OR 2050 i. Ø 12,42 c. s. 1,78 (P-T)	2
3	Ø 8,5 through hole for tie rod	
4	OR 2043 i. Ø 10,82 c. s. 1,78 (LS-FS)	1
5	OR 108 i. Ø 8,73 c. s. 1,78	1

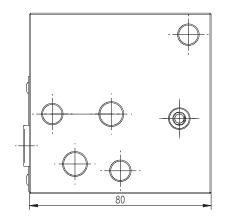


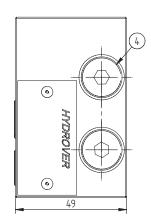
32 SERIES **H3222**



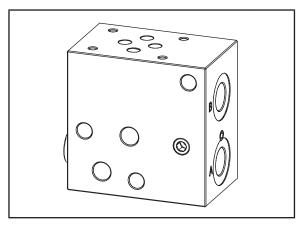
Intermediate subplate with 2 way compensated flow regulator fixed flow rate from 1 to 10 lpm and 1 Cetop 3 station / side A-B ports

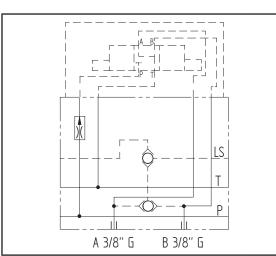


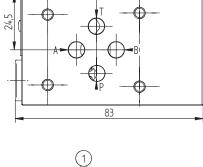


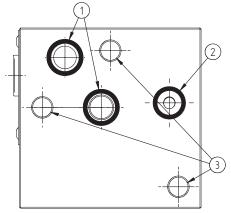


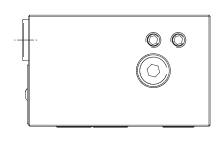
Technical data		
Max. pressure	210 bar	
Weight	0,9 Kg	
Manifold material	Aluminium	
A / B ports	3/8" G	









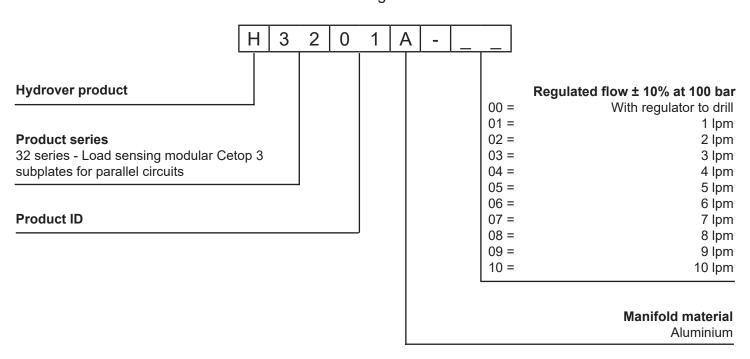


N°	Description	Q.ty
1	OR 2050 i. Ø 12,42 cross section 1,78 (P-T)	2
2	OR 2043 i. Ø 10,82 cross section 1,78 (LS)	1
3	Ø 8,5 through hole for tie rod	3
4	2 way compensated flow regulator Bosch Rexroth 0T.F1.00.09-Z *	1

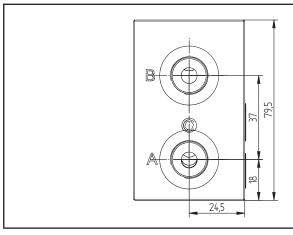
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

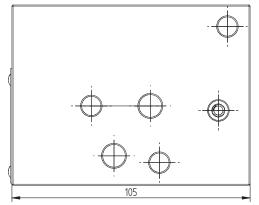


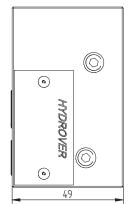
32 SERIES **H3201**



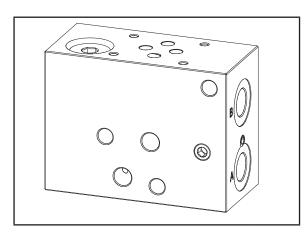
Intermediate subplate with 2 way compensated flow regulator fixed flow rate from 4 to 16 lpm and 1 Cetop 3 station / side A-B ports

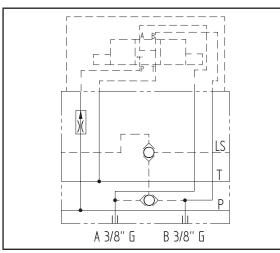


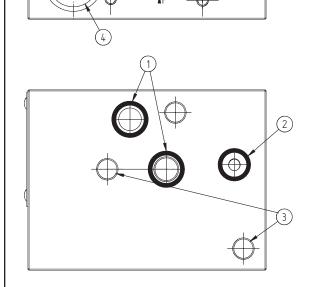


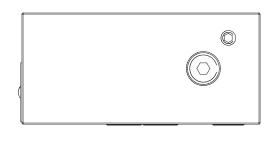


Technical data	
Max. pressure	210 bar
Weight	1,2 Kg
Manifold material	Aluminium
A / B ports	3/8" G







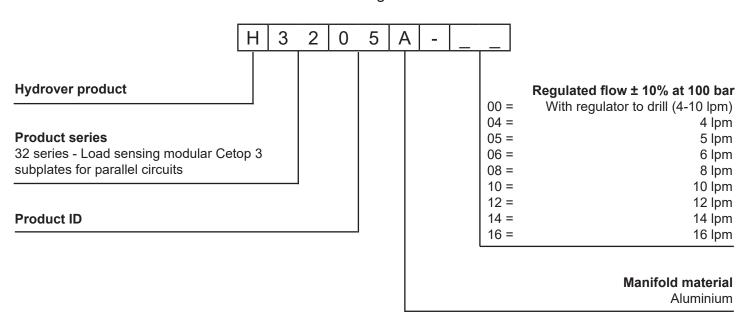


N°	Description	Q.ty
1	OR 2050 i. Ø 12,42 cross section 1,78 (P-T)	2
2	OR 2043 i. Ø 10,82 cross section 1,78 (LS)	1
3	Ø 8,5 through hole for tie rod	3
4	2 way compensated flow regulator Bosch Rexroth 0T.F1.00.02-Z *	1

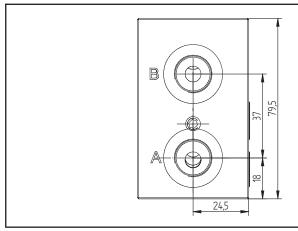
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

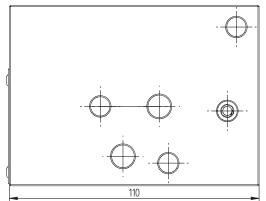


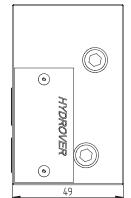
32 SERIES **H3205**



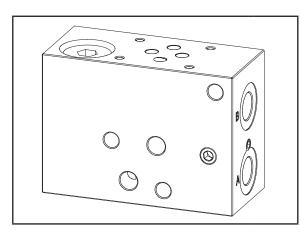
Intermediate subplate with 2 way compensated flow regulator fixed flow rate from 12 to 30 lpm and 1 Cetop 3 station / side A-B ports

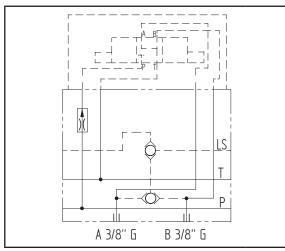


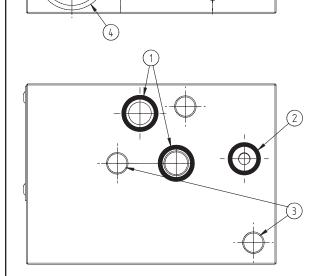


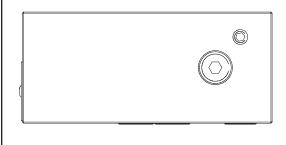


Technical data	
Max. pressure	210 bar
Weight	1,1 Kg
Manifold material	Aluminium
A / B ports	3/8" G







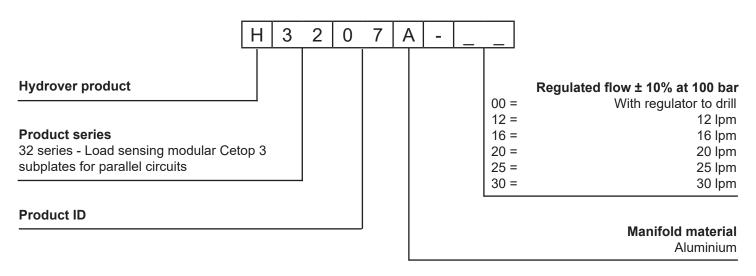


N°	Description	Q.ty
1	OR 2050 i. Ø 12,42 cross section 1,78 (P-T)	2
2	OR 2043 i. Ø 10,82 cross section 1,78 (LS)	1
3	Ø 8,5 through hole for tie rod	3
4	2 way compensated flow regulator Bosch Rexroth 0T.F1.00.0-Z *	1

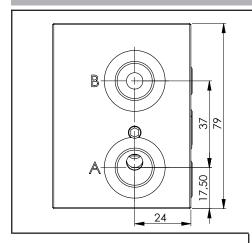
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



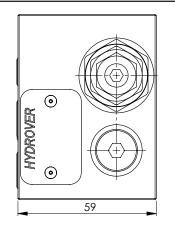
32 SERIES **H3207**



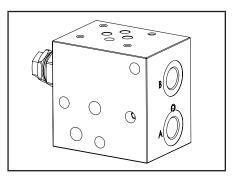
Intermediate subplate with flow restrictor on P and 1 Cetop 3 station side A-B ports

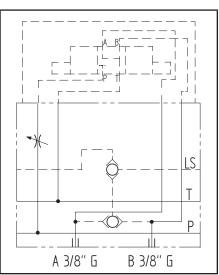


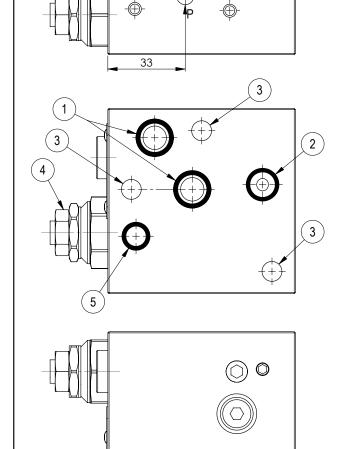
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Technical data		
Max. pressure	210 bar	
Weight	1,1 Kg	
Max. flow	40 lpm *	
Manifold material	Aluminium	
A / B ports	3/8" G	



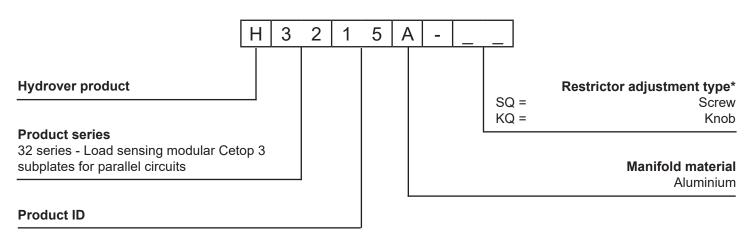




N°	Description	Q.ty
1	OR 2050 i. Ø 12,42 cross section 1,78 (P-T)	2
2	OR 2043 i. Ø 10,82 cross section 1,78 (LS)	1
3	Ø 8,5 through hole for tie rod	3
4	Bosch Rexroth bidirectional flow restrictor OD.21.01-X-36 * depicted with screw adjustment	1
5	OR 108 i. Ø 8,73 cross section 1,78	1



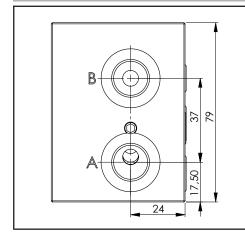
32 SERIES **H3215**

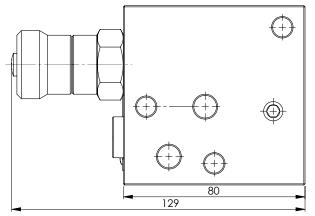


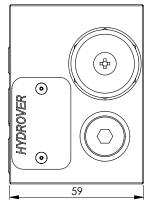
^{*} Omit if not required. To order the product without restricor cartridge valve, omit the restrictor adjustment type variabile: H3215A.

The manifold will still be provided with the corrisponding cavity.

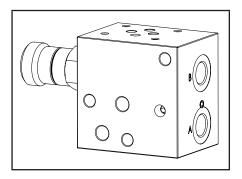
Intermediate subplate with 2 way compensated flow regulator up to 30 lpm and 1 Cetop 3 station / side A-B ports

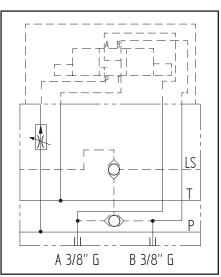


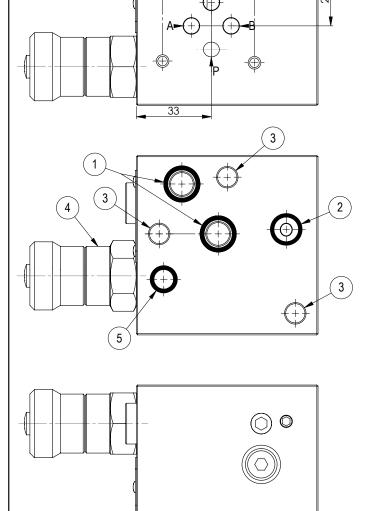




Technical data		
Max. pressure	210 bar	
Weight	1,2 Kg	
Regulated max. flow	30 lpm *	
Manifold material	Aluminium	
A / B ports	3/8" G	





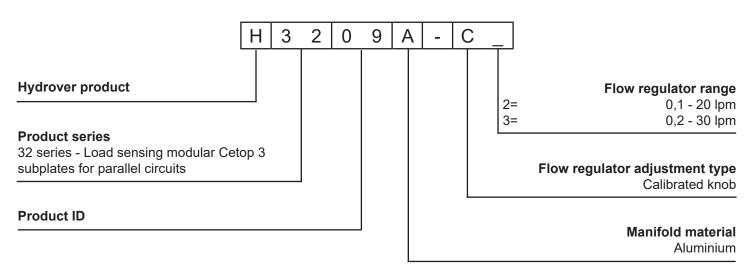


N°	Description	Q.ty
1	OR 2050 i. Ø 12,42 cross section 1,78 (P-T)	2
2	OR 2043 i. Ø 10,82 cross section 1,78 (LS)	1
3	Ø 8,5 through hole for tie rod	3
4	Bosch Rexroth 2 way compensated flow regulator 04.02.02.40.85-Z *	1
5	OR 108 i. Ø 8,73 cross section 1,78	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

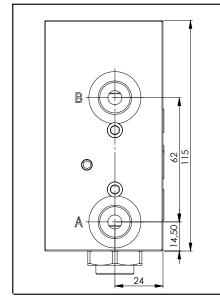


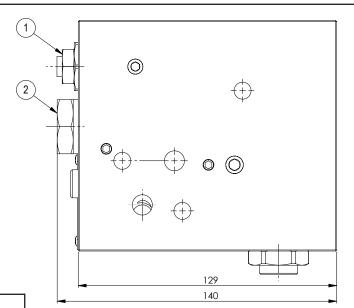
32 SERIES **H3209**



Intermediate subplate with 2 way compensated flow regulator pilot operated check valves on A and B / 1 Cetop 3 station / side A-B ports

H3226

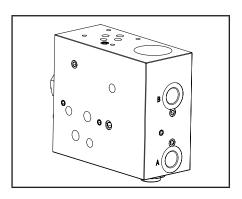


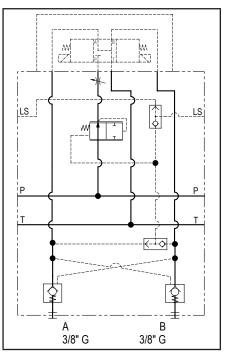


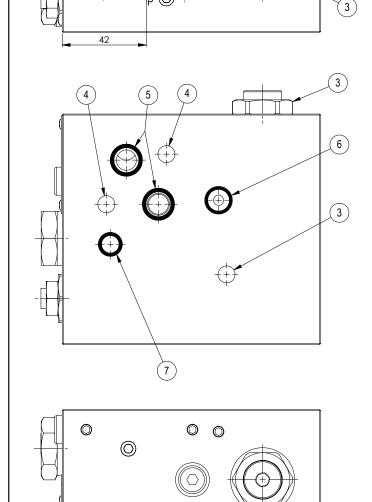
HYDROVER	•	
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Technical data		
Max. pressure	250 bar	
Weight	2,6 Kg	
Regulated max. flow	25 lpm	
Manifold material	Aluminium	
A / B ports	3/8" G	

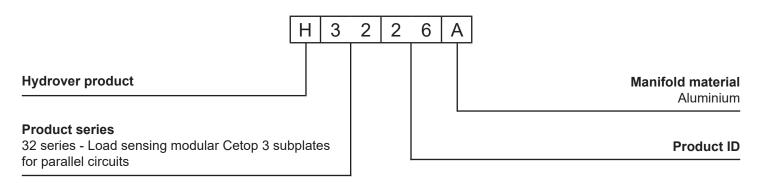








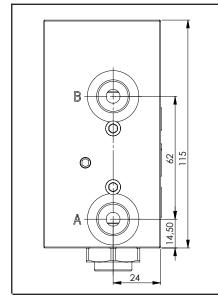
32 SERIES **H3226**

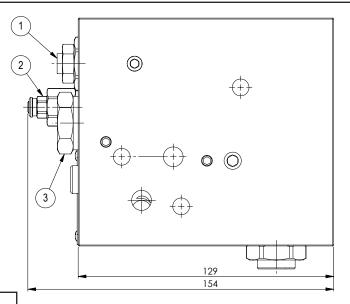


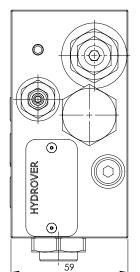
N°	Description	Q.ty
1	Flow restrictor	1
2	Pressure compensator	1
3	Bosch Rexroth check valve VU-38 *	2
4	Ø 8,5 through hole for tie rod	3
5	OR 2050 i. Ø 12,42 cross section 1,78 (P-T)	2
6	OR 2043 i. Ø 10,82 cross section 1,78 (LS)	1
7	OR 108 i. Ø 8,73 cross section 1,78	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

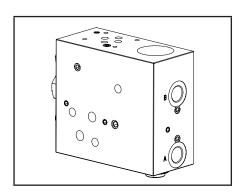
Intermediate subplate with 2 way compensated flow regulator / relief valve on P pilot operated check valves on A and B / 1 Cetop 3 station / side A-B ports

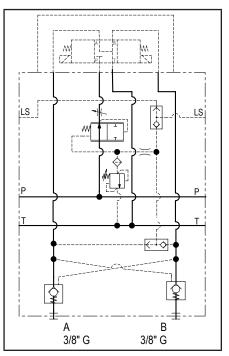


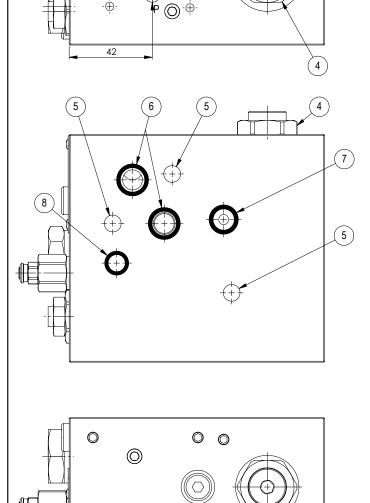




Technical data		
Max. pressure	250 bar	
Weight	2,6 Kg	
Regulated max. flow	25 lpm	
Manifold material	Aluminium	
A / B ports	3/8" G	

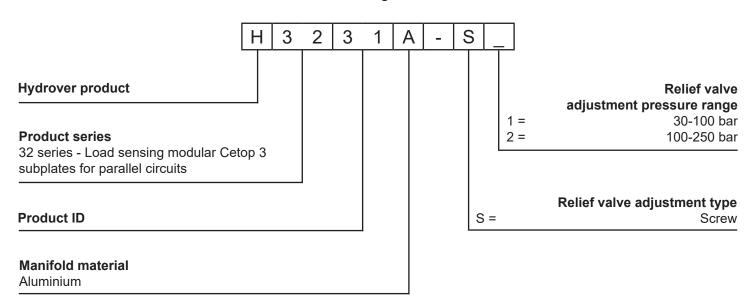








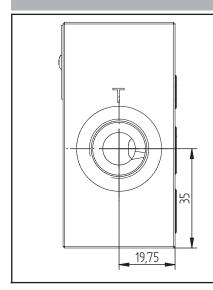
32 SERIES **H3231**



N°	Description	Q.ty
1	Flow restrictor	1
2	Relief valve with filter	1
3	Pressure compensator	1
4	Bosch Rexroth check valve VU-38 *	2
5	Ø 8,5 through hole for tie rod	3
6	OR 2050 i. Ø 12,42 cross section 1,78 (P-T)	2
7	OR 2043 i. Ø 10,82 cross section 1,78 (LS)	1
8	OR 108 i. Ø 8,73 cross section 1,78	1

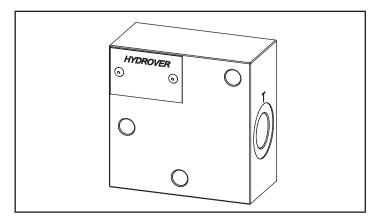
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

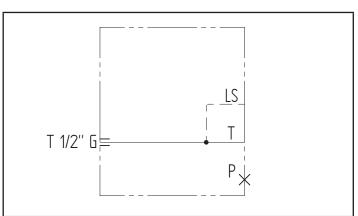
Closing plate with T port



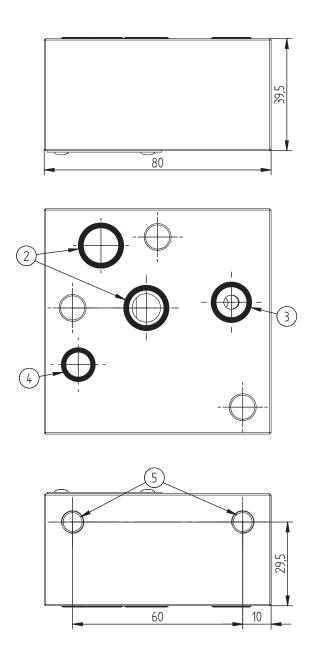
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79,5	

Technical data		
Max. pressure	250 bar	
Weight	0,7 Kg	
Manifold material	Aluminium	
T port	1/2" G	





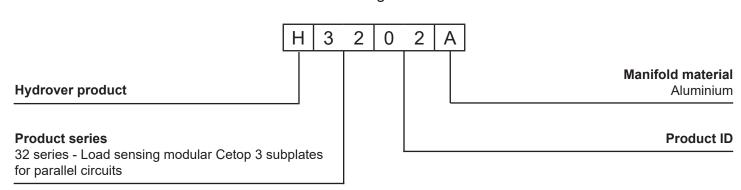
N°	Description	Q.ty
1	Ø 8,5 through hole for tie rod	3
2	OR 2050 i. Ø 12,42 cross section 1,78 (P-T)	2
3	OR 2043 i. Ø 10,82 cross section 1,78 (LS-FS)	1
4	OR 108 i. Ø 8,73 cross section 1,78	1
5	M8x13 for mounting	2





32 SERIES **H3202**

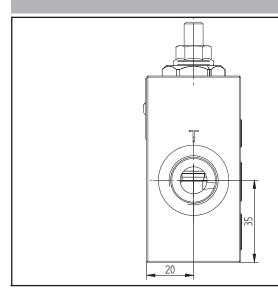
Ordering code



Note: this closing plate can be used as a blind closing plate. Just add in T a 1/2" G plug.

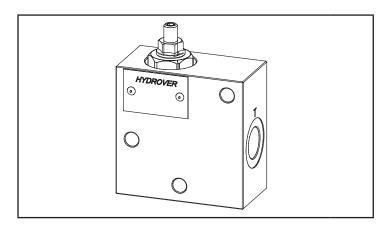
Closing plate with T port and relief valve

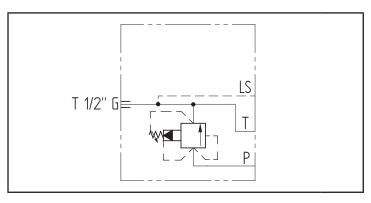




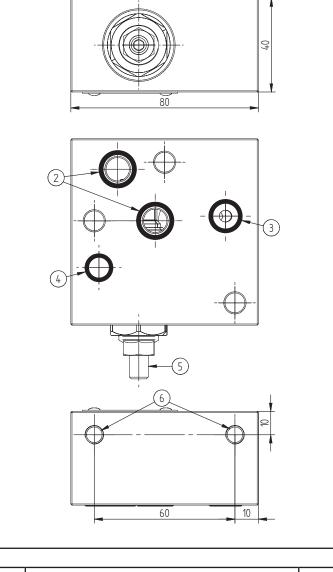
_	
79,5	HYDROVER

Technical data		
Max. pressure	250 bar	
Max. flow	90 lpm *	
Weight	0,8 Kg	
Manifold material	Aluminium	
T port	1/2" G	





N°	Description	Q.ty
1	Ø 8,5 through hole for tie rod	3
2	OR 2050 i. Ø 12,42 cross section 1,78 (P-T)	2
3	OR 2043 i. Ø 10,82 cross section 1,78 (LS)	1
4	OR 108 i. Ø 8,73 cross section 1,78	1



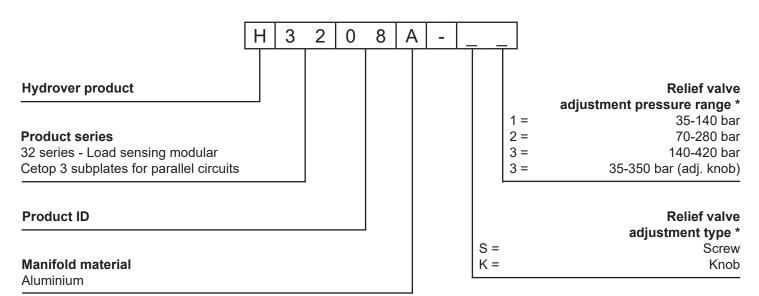
N°	Description	Q.ty
5	Bosch Rexroth relief valve VSPN-10A * depicted with screw adjustment	1
6	M8x13 for mounting	

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



32 SERIES **H3208**

Ordering code



^{*} Omit if not required. For example, to order the product without the relief cartridge valve, omit the pressure range and adjustment type options: H3208A.

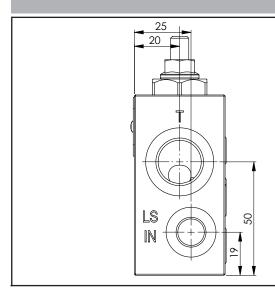
The manifold will still be provided with the corrisponding cavity.

To inhibit the relief valve, replace the related options with TL: H3208A-TL).

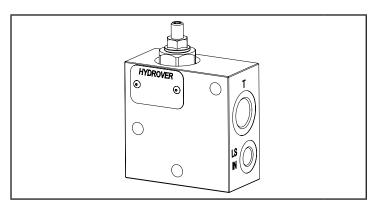
In the cavity it will be mounted a long plug.

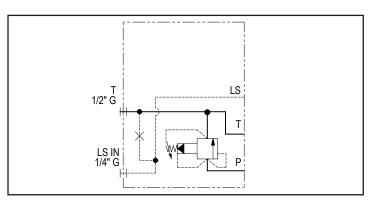
Valve	Cavity	Long plug code
Pressure relief valve VSPN-10A	CA-10A-2N	0489A2008500000

Closing plate with T port / relief valve / LS IN

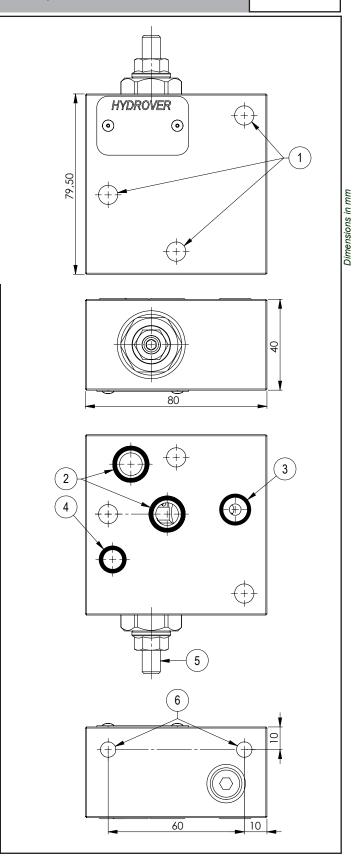


Technical data		
Max. pressure	250 bar	
Max. flow	90 lpm *	
Weight	0,7 Kg	
Manifold material	Aluminium	
LS IN port	1/4" G	
T port	1/2" G	





N°	Description	Q.ty
1	Ø 8,5 through hole for tie rod	3
2	OR 2050 i. Ø 12,42 cross section 1,78 (P-T)	2
3	OR 2043 i. Ø 10,82 cross section 1,78 (LS)	1
4	OR 108 i. Ø 8,73 cross section 1,78	1

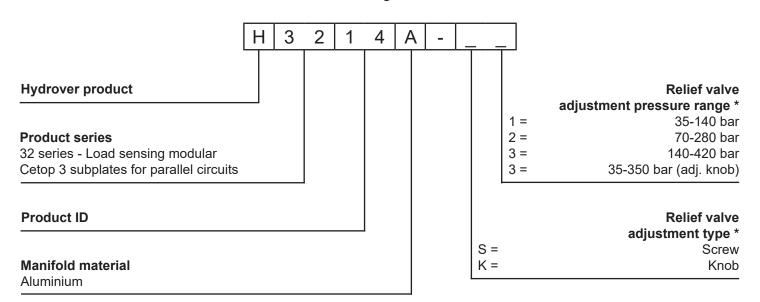


N°	Description	Q.ty
5	Bosch Rexroth relief valve VSPN-10A * depicted with screw adjustment	1
6	M8x13 for mounting	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

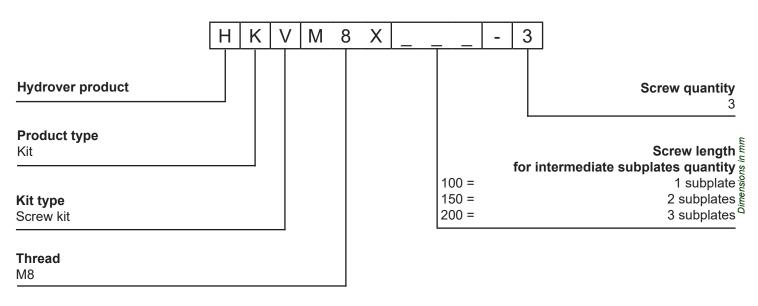


32 SERIES **H3214**

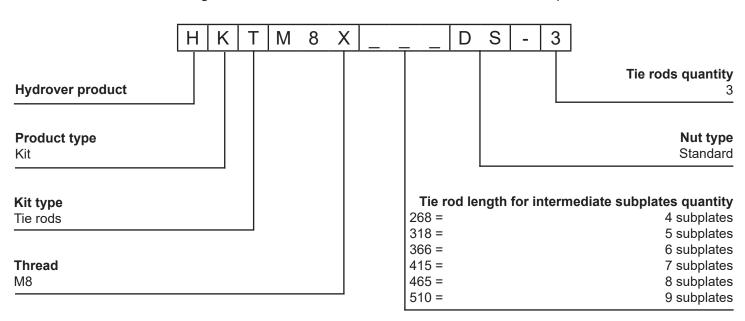




Ordering code for assemblies with 1 to 3 intermediate subplates

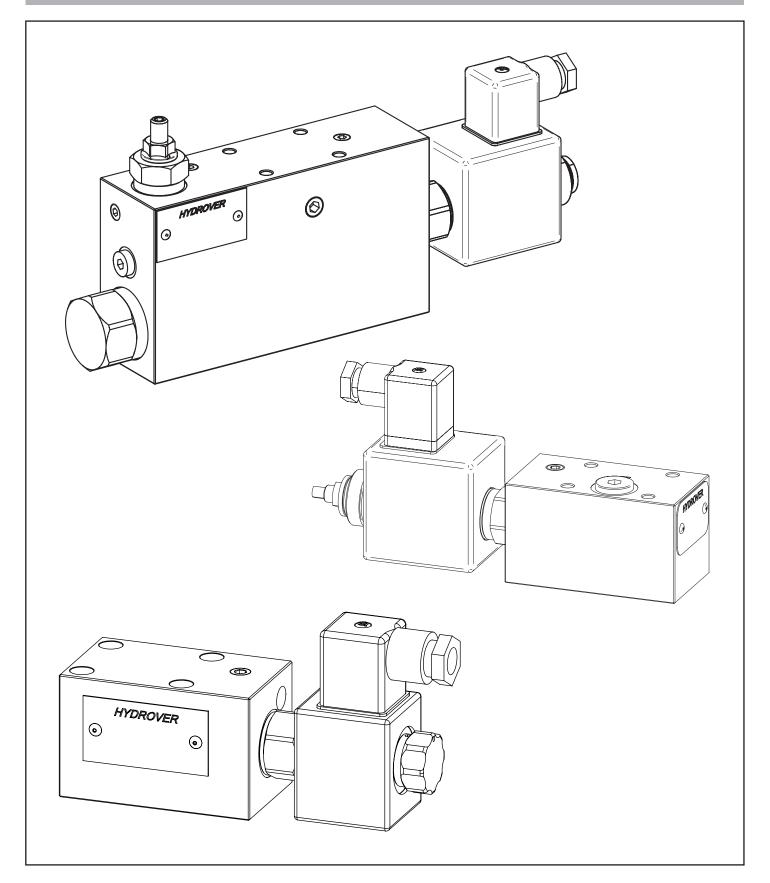


Ordering code for assemblies with 4 to 9 intermediate subplates

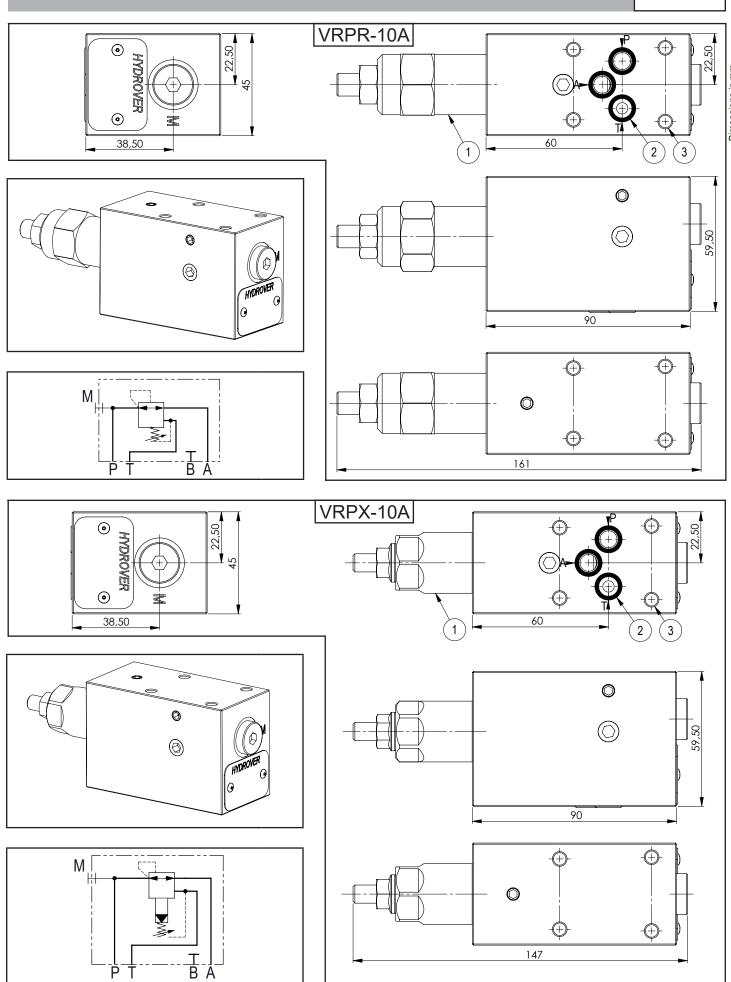




35 SERIES Cetop 3 valves



Cetop 3 pressure reducing valve inlet in A outlet to P

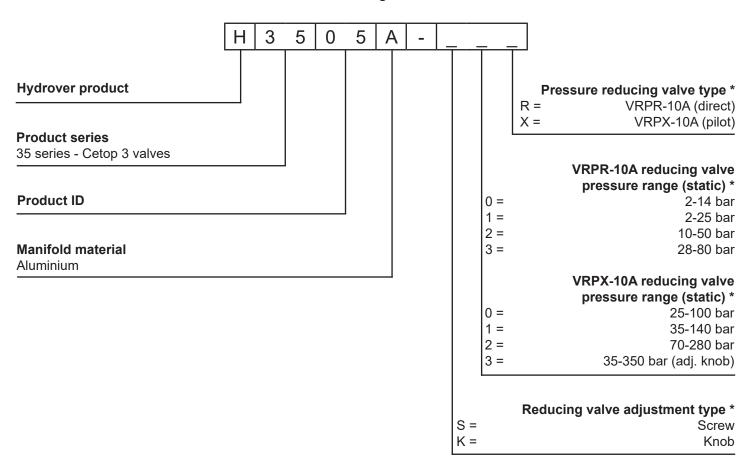




Cetop 3 valves 35 SERIES

35 SERIES **H3505**

Ordering code



^{*} Omit if not required. For example, to order the product without the pressure reducing cartridge valve, omit the valve type, pressure range and adjustment type options: H3505A.

The manifold will still be provided with the corrisponding cavity.

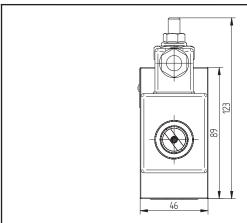
N°	Description	Q.ty
1	Ø 5,5 through hole for mounting	4
2	OR 108 i. Ø 8,73 cross section 1,78	3
3	Bosch Rexroth reducing valve VRPR-10A o VRPX-10A * depicted with screw adjustment	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

Technical data			
Max. pressure	250 bar		
Max. flow with VRPR-10A	25 lpm *		
Max. flow with VRPX-10A	55 lpm *		
Weight	0,9 Kg		
Manifold material	Aluminium		

Cetop 3 valves 35 SERIES

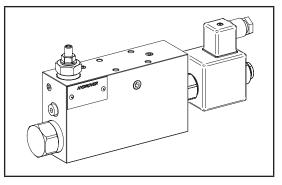
3 way compensated Cetop 3 flow regulator / relief valve / inlet in A regulated outlet on P / discharge in T

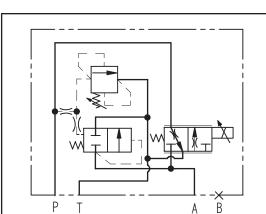


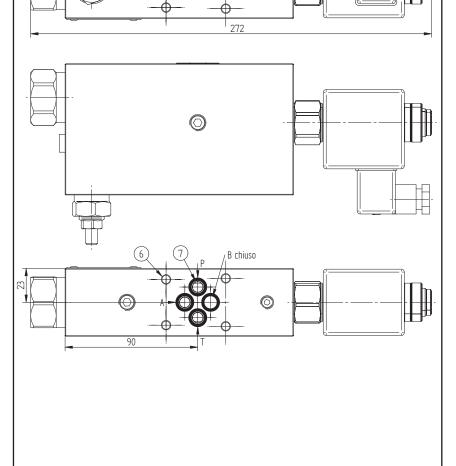
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	HYDROVER		
	0 0	0	3
1		•	
	•	155	
		·	•

Technical data			
Max. pressure	210 bar		
Input max. flow	65 lpm		
Weight	2,5 Kg		
Manifold material	Aluminium		







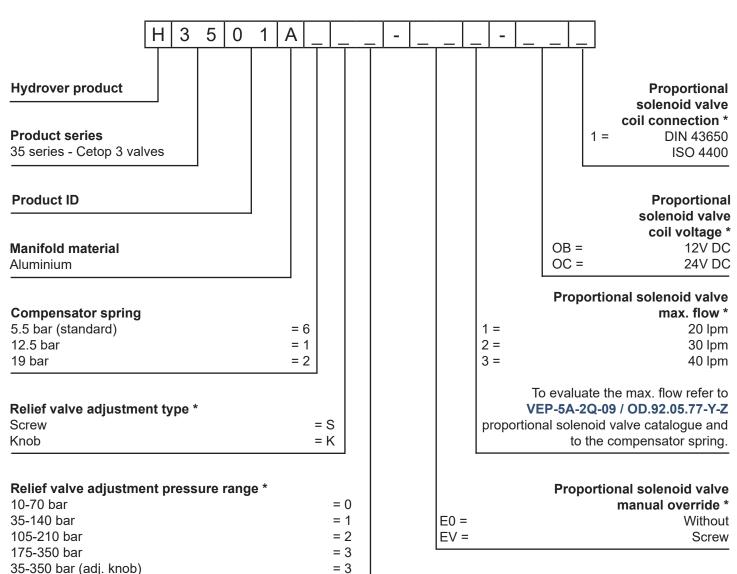
N°	Description	Q.ty
1	Pressure compensator	1
2	Bosch Rexroth relief valve VSBN-08A *	1
3	Bosch Rexroth proportional solenoid valve VEP-5A-2Q-09 / OD.92.05.77-Y-Z *	1
4	Bosch Rexroth coil \$5-356 - CLASS H DIN 43650 ISO 4400 *	1
5	Connector DIN 43650 ISO 4400	1
6	Ø 5,5 through hole for mounting	4
7	OR 108 i. Ø 8,73 cross section 1,78	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Cetop 3 valves 35 SERIES H3501

Ordering code

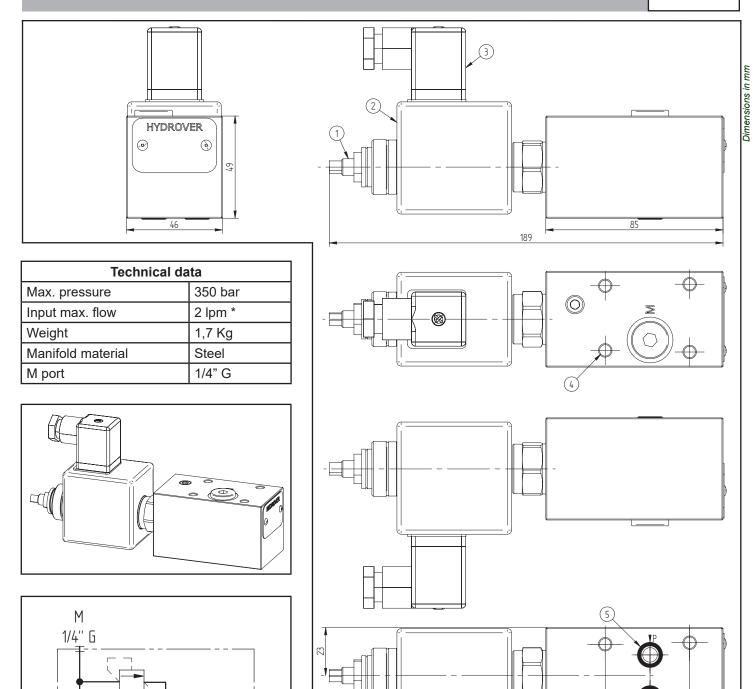


^{*} Omit if not required. For example, to order the product without the proportional solenoid cartridge valve, omit the manual override, max. flow, coil voltage and coil connection options: H3501A6S2.

The manifold will still be provided with the corrisponding cavity.

HYDROUER

Proportional pressure regulator Cetop 3 valve on P / direct acting



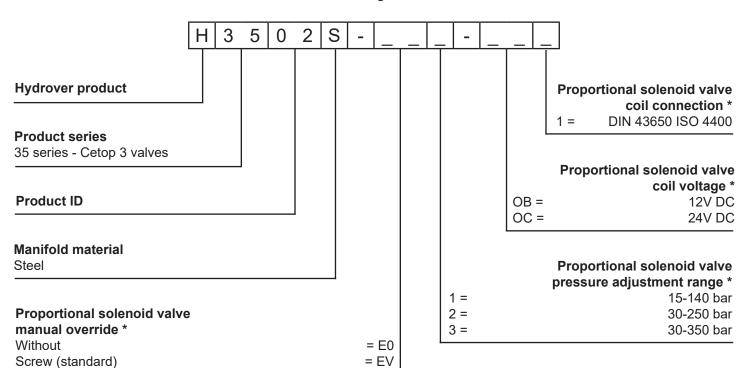
N°	Description	Q.ty
1	Bosch Rexroth proportional solenoid valve VEP-5B-2S-D / OD.94.01.18-Y-Z * as depicted with screw manual override	1
2	Bosch Rexroth coil S5-356 - CLASS H DIN 43650 ISO 4400 *	1
3	Connector DIN 43650 ISO 4400	1
4	Ø 5,5 through hole for mounting	4
5	OR 108 i. Ø 8,73 cross section 1,78	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Cetop 3 valves 35 SERIES

H3502



^{*} Omit if not required. For example, to order the product without the proportional solenoid cartridge valve, omit the manual override, pressure range, coil voltage and coil connection options: H3502S.

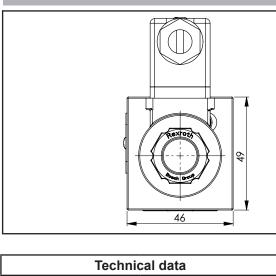
2

Poppet type solenoid operated directional Cetop 3 valve P in A or P in B

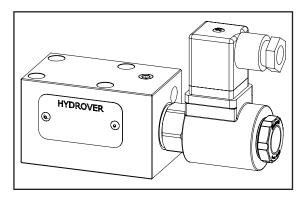
HYDROVER

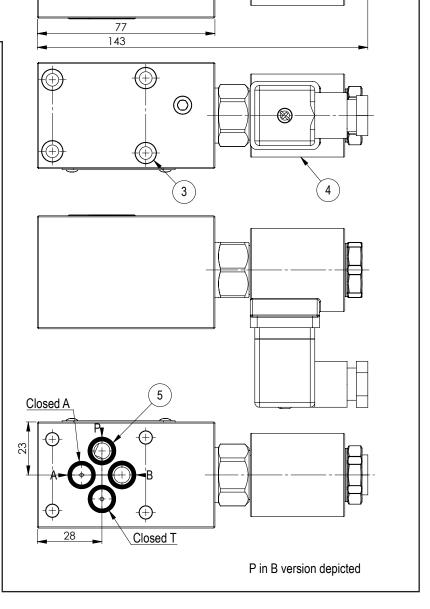
0

•



Technical data			
Max. pressure	Aluminium Steel	250 bar 350 bar	
Max. flow	40 lpm *		
Weight	Aluminium Steel	0,8 Kg 1,6 Kg	
Manifold material	Aluminium or stee		



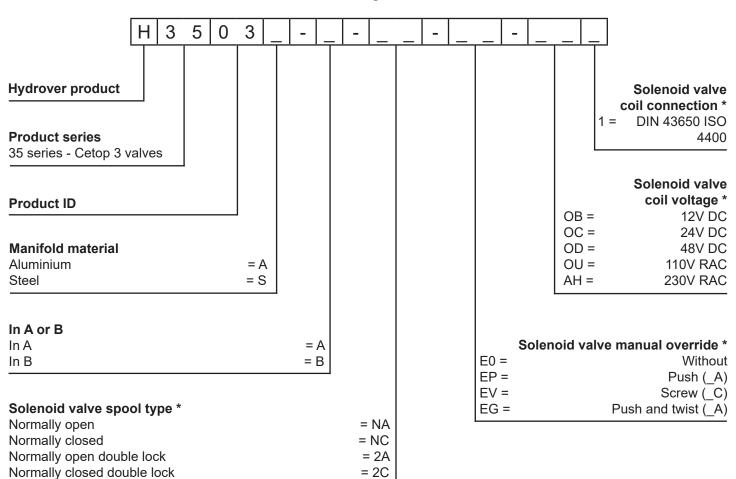


N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-08A-NC OD.15-X-18-Y-000000 (normally closed) or VEI-16-08A-NA OD.15-X-18-Y-000000 (normally open) depicted without manual override *	1
2	Connector DIN 43650 ISO 4400	1
3	Ø 5,5 through hole with counterbore for mounting	4
4	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
5	OR 108 i. Ø 8,73 cross section 1,78	4

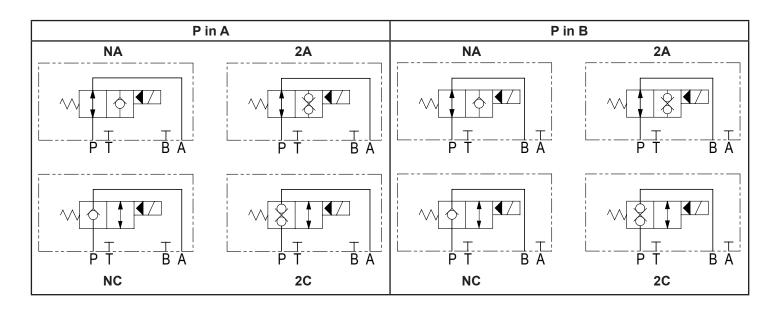
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



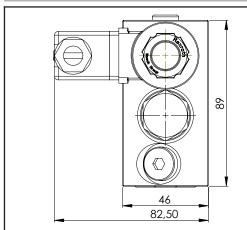
Cetop 3 valves 35 SERIES H3503

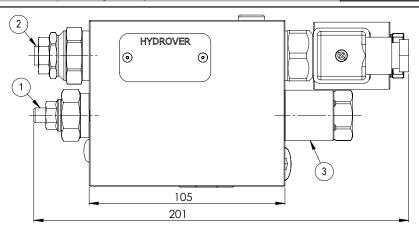


^{*} Omit if not required. For example, to order the product without the solenoid cartridge valve coil, omit the coil voltage and coil connection options: H3503A-A-NC-E0.

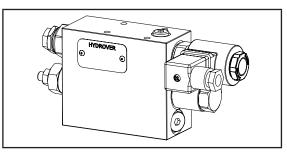


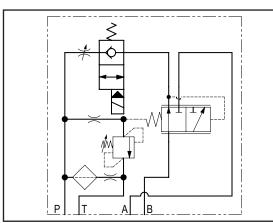
Valve with priority flow function inlet in B / non priority output in A with relief valve

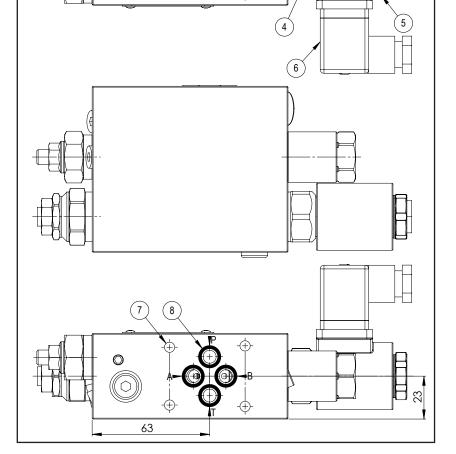




Technical data			
Max. pressure	250 bar		
Max. inlet flow	45 lt/1		
Max. priority flow	30 lt/1		
Weight	1,9 Kg		
Manifold material	Aluminium		







N°	Description	Q.ty
1	Bosch Rexroth bidirectional flow restrictor OD.21.01-X-36 depicted with screw adjustment *	1
2	Bosch Rexroth relief valve VSBN-08A *	1
3	Logic element Bosch Rexroth VRLA-10A-S *	1
4	Bosch Rexroth solenoid valve OD.15.05.36-Y-000000 depicted without manual override *	1
5	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
6	Connector DIN 43650 ISO 4400	1
7	Ø 5,5 through hole with counterbore for mounting	4
8	OR 108 i. Ø 8,73 cross section 1,78	4

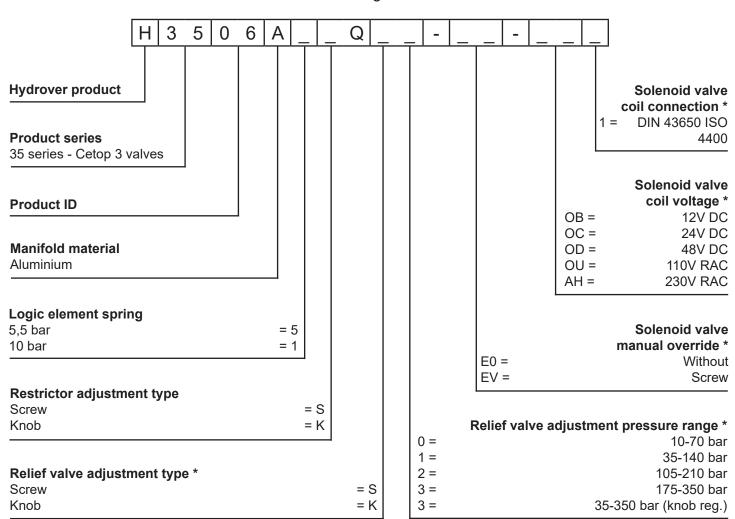
^{*} per caratteristiche tecniche complete cliccare sul collegamento blu o consultare a fine catalogo la sezione componenti



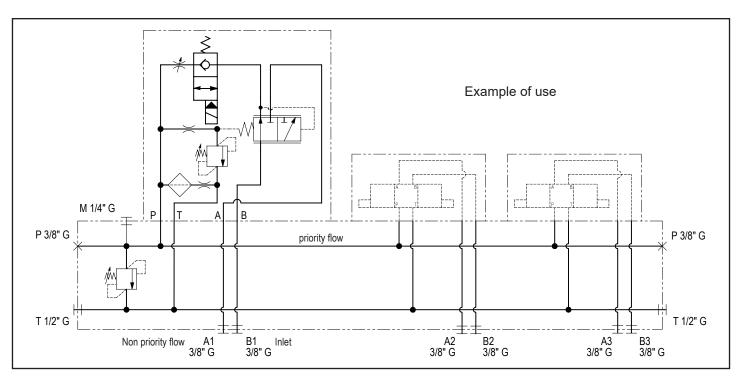
Cetop 3 valves 35 SERIES

35 SERIES **H3506**

Ordering code

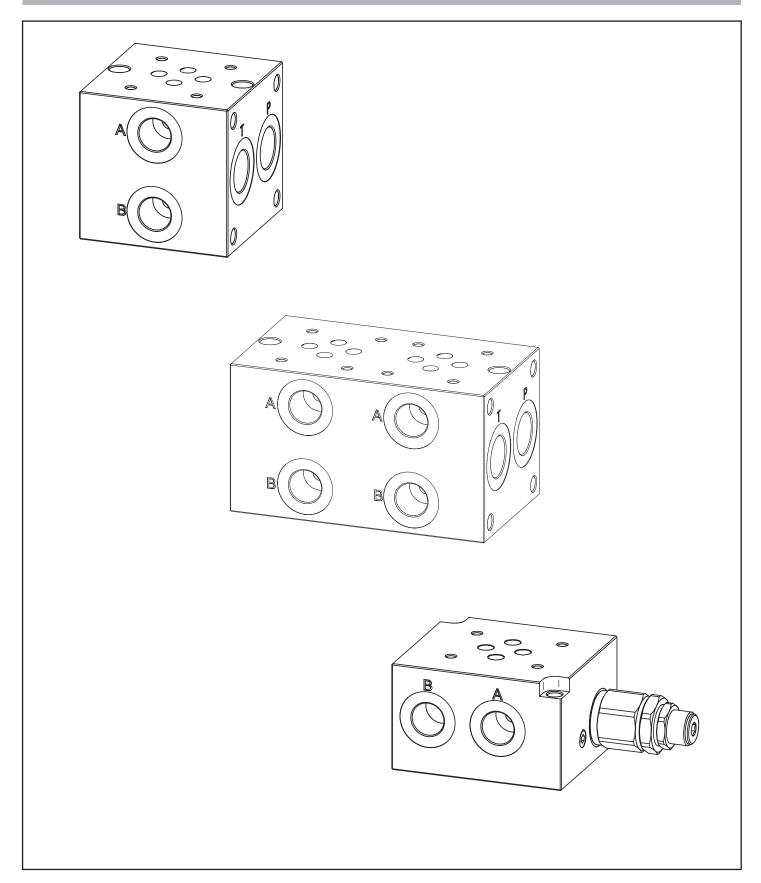


* Omit if not required. For example, to order the product without the solenoid cartridge valve coil, omit the coil voltage and coil connection options: H3506A5SQ-S2-E0.

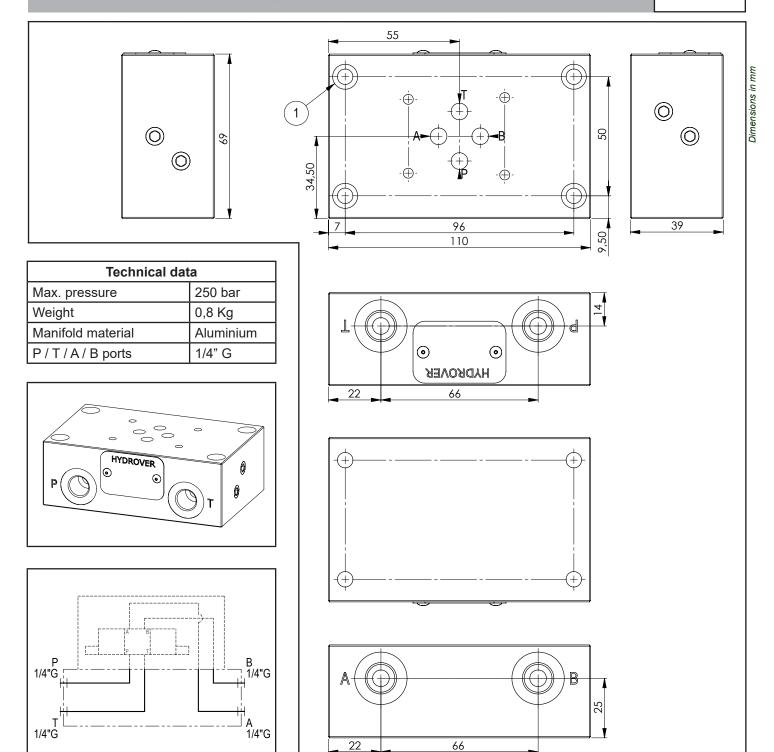




SERIE 36 Cetop 3 subplates



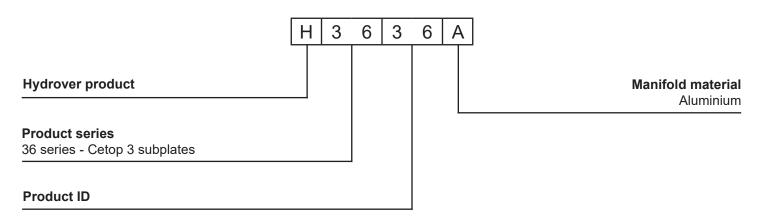
Cetop 3 single station subplate / side P-T-A-B ports 1/4"G



N	Description	Q.ty	
1	Ø 6,5 through hole for mounting with counterbore	4	



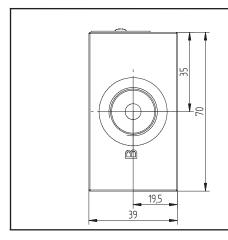
36 SERIES **H3636**



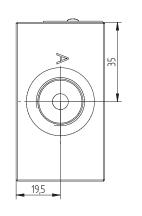
Cetop 3 single station subplate / side P-A-B ports / back T port

0

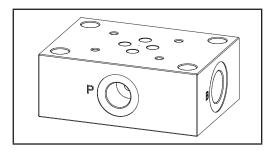
H3607

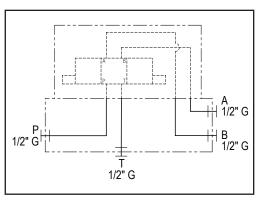


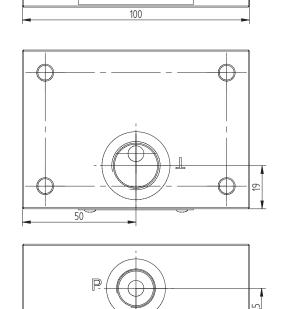
	4	50		<u> </u>
1				2
35				
		A-Q	B	
			K ——	
_	10	8	0	_



Technical data		
Max. pressure	250 bar	
Weight	0,7 Kg	
Manifold material	Aluminium	
P port	3/8" G	
T / A / B ports	1/2" G	







HYDROVER

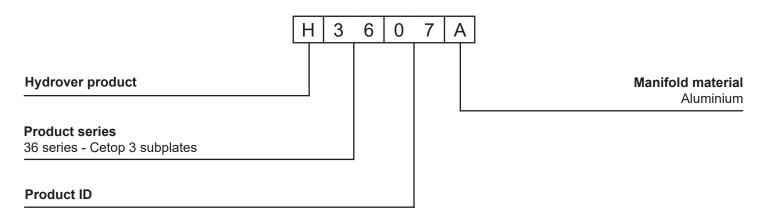
0

N°	Description	Q.ty
1	Ø 6,5 through hole for mounting with counterbore	4

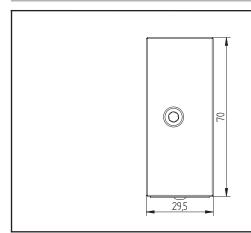
50



36 SERIES **H3607**

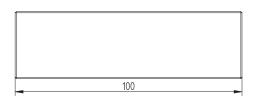


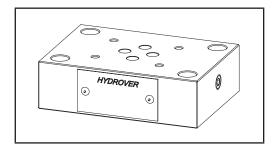
Cetop 3 single station subplate / back P-T-A-B ports

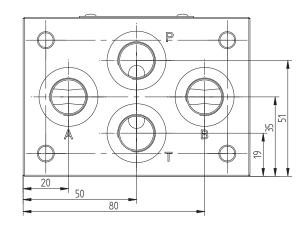


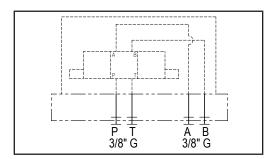
50	+
×	
	B 05
10 80	

Technical data		
Max. pressure	250 bar	
Weight	0,6 Kg	
Manifold material	Aluminium	
P/T/A/B ports	3/8" G	





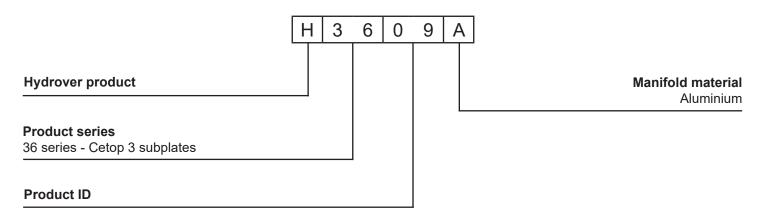




N°	Description	Q.ty
1	Ø 6,5 through hole for mounting with counterbore	4

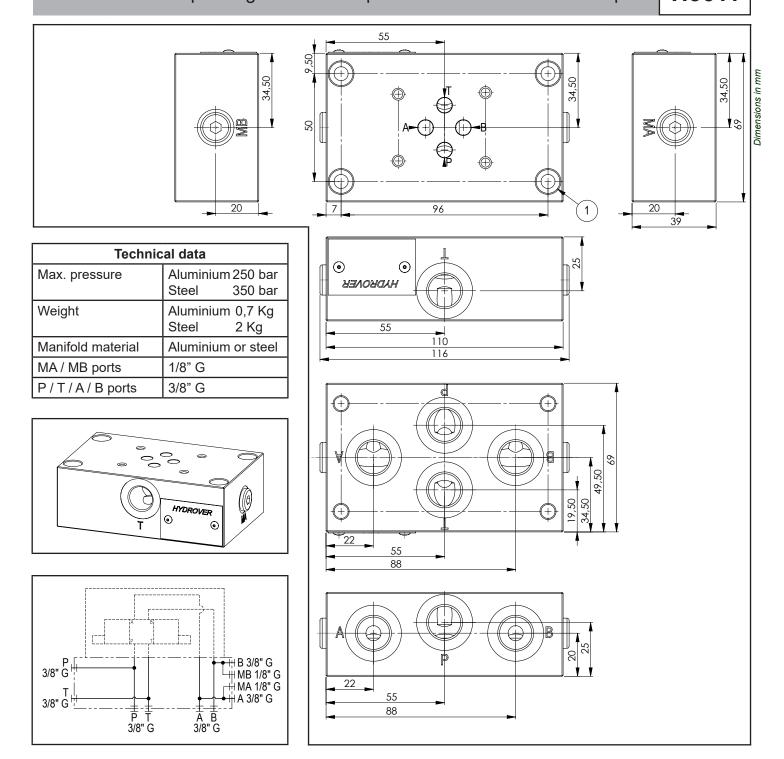


36 SERIES **H3609**





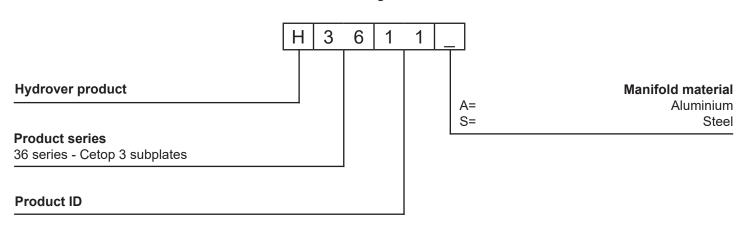
Cetop 3 single station subplate / side and back P-T-A-B ports



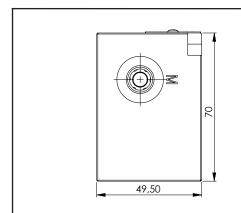
N	Description	Q.ty	
1	Ø 6,5 through hole for mounting with counterbore	4	



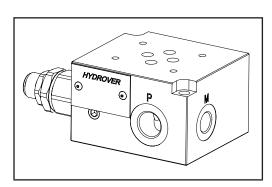
H3611

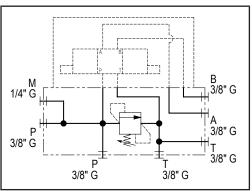


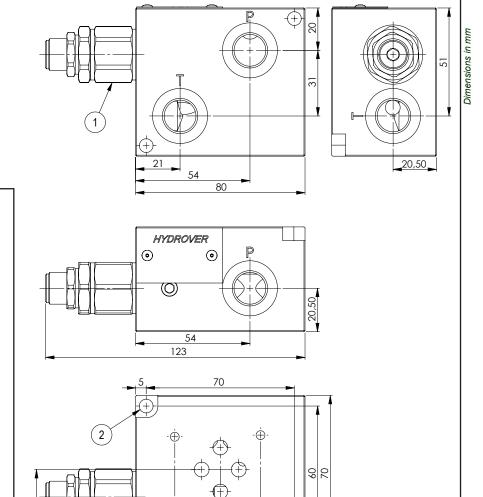
Cetop 3 single station subplate / relief valve back and side P-T ports / side A-B ports / 25 lpm

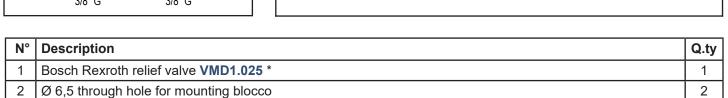


Technical data		
Max. pressure	250 bar	
Max. flow	25 lpm *	
Weight	0,9 Kg	
Manifold material	Aluminium	
M port	1/4" G	
P/T/A/B ports	3/8" G	







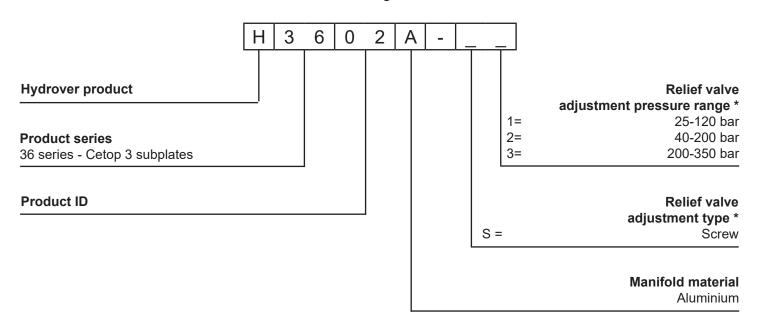


^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



36 SERIES **H3602**

Ordering code



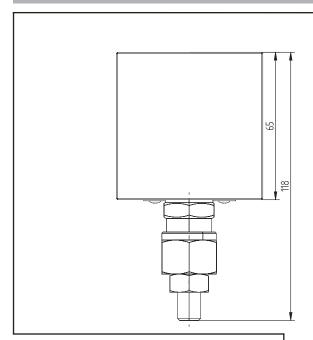
^{*} Omit if not required. For example, to order the product without the relief cartridge valve, omit the pressure range and adjustment type options: H3602A.

The manifold will still be provided with the corrisponding cavity.

To inhibit the relief valve, replace the related options with TL: H3602A-TL.

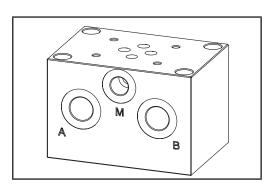
Valve	Cavity	Long plug code
Pressure relief valve VMD1.025	VMD1.025	R-800-016

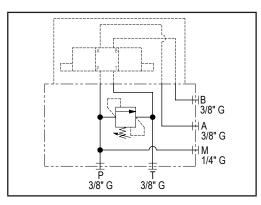
Cetop 3 single station subplate / relief valve back P-T ports / side A-B ports / 30 lpm

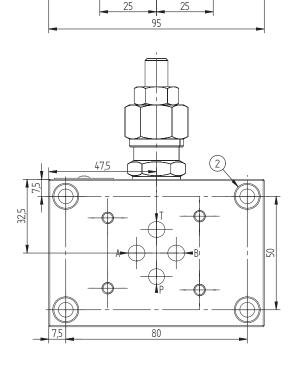


47,5
P
25

Technical data		
Max. pressure	250 bar	
Max. flow	30 lpm *	
Weight	1,2 Kg	
Manifold material	Aluminium	
M port	1/4" G	
P/T/A/B ports	3/8" G	







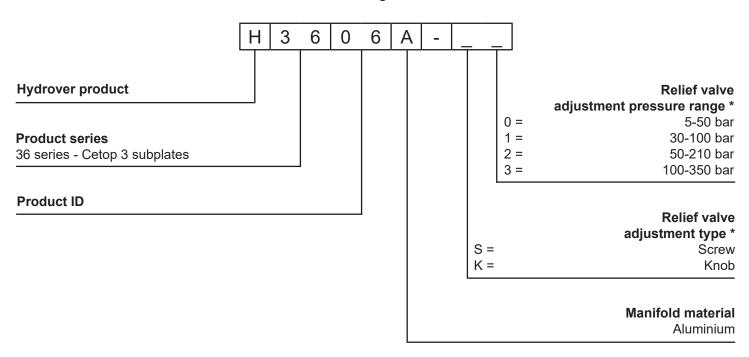
N°	Description	Q.ty
1	Bosch Rexroth relief valve VS-30 *	1
2	Ø 6,5 through hole for mounting with counterbore	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



36 SERIES **H3606**

Ordering code



^{*} Omit if not required. For example, to order the product without the relief cartridge valve, omit the pressure range and adjustment type options: H3606A.

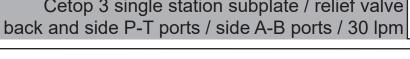
The manifold will still be provided with the corrisponding cavity.

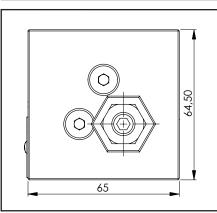
To inhibit the relief valve, replace the related options with TL: H3606A-TL.

Valve	Cavity	Long plug code
Pressure relief valve VS-30	008	D8TVMDC

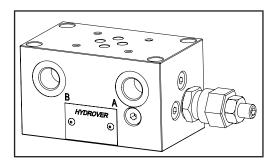
H3619

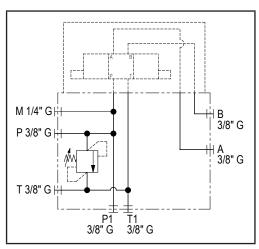
Cetop 3 single station subplate / relief valve

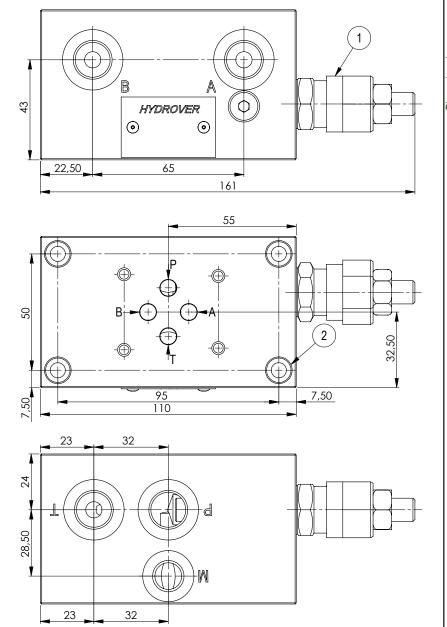


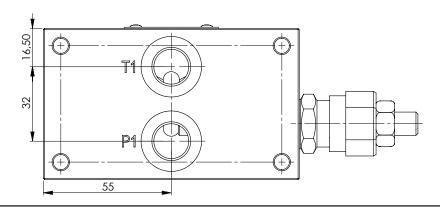


Technical data		
Max. pressure	250 bar	
Max. flow	30 lpm *	
Weight	1,3 Kg	
Manifold material	Aluminium	
M port	1/4" G	
P/T/A/B ports	3/8" G	









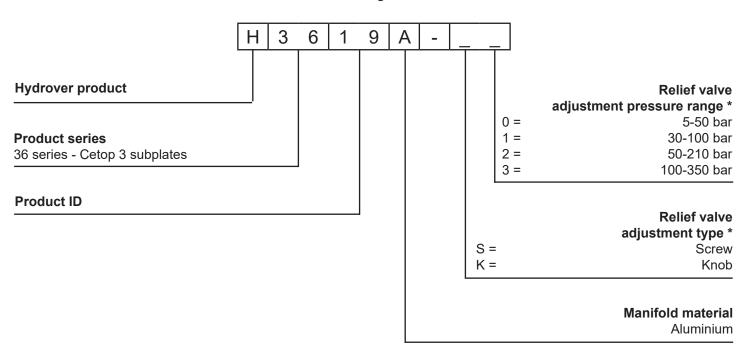
N°	Description	Q.ty
1	Bosch Rexroth relief valve VS-30 *	1
2	Ø 6,5 through hole for mounting with counterbore	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



36 SERIES **H3619**

Ordering code



^{*} Omit if not required. For example, to order the product without the relief cartridge valve, omit the pressure range and adjustment type options: H3619A.

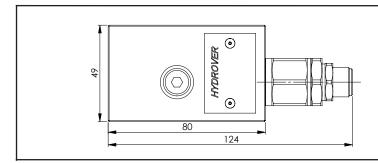
The manifold will still be provided with the corrisponding cavity.

To inhibit the relief valve, replace the related options with TL: H3619A-TL.

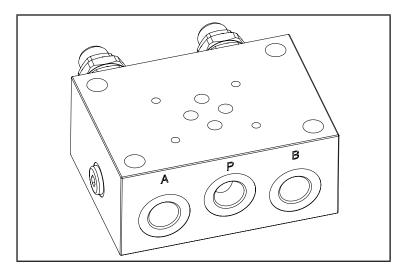
Valve	Cavity	Long plug code
Pressure relief valve VS-30	008	D8TVMDC

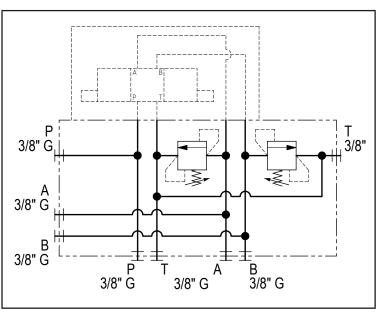
HYDROVER

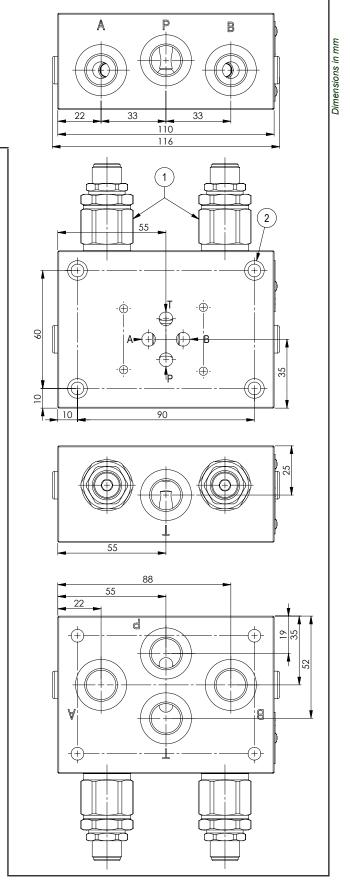
Cetop 3 single station subplate / relief valve on A and B back and side P-T-A-B ports / 25 lpm



Technical data		
Max. pressure	350 bar	
Max. flow	25 lpm *	
Weight	3,2 Kg	
Manifold material	Steel	
P / T / A / B back and side ports	3/8" G	







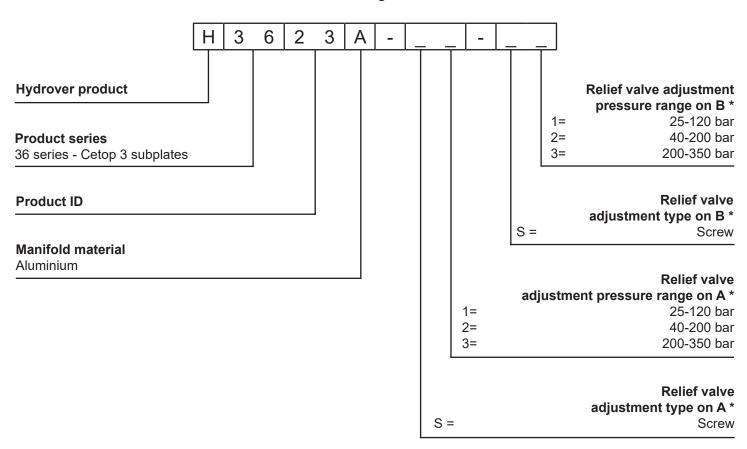
N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.025 *	2
2	Ø 6,5 through hole for mounting blocco	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



36 SERIES **H3623**

Ordering code



^{*} Omit if not required. For example, to order the product without the relief cartridge valves, omit the pressure range and adjustment type options: H3623A.

The manifold will still be provided with the corrisponding cavities.

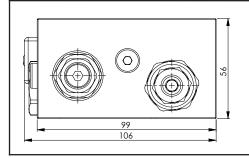
To inhibit a relief valve, replace the related options with TL: eg. H3623A-TL-S2.

Valve	Cavity	Long plug code
Pressure relief valve VMD1.025	VMD1.025	R-800-016



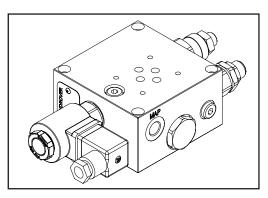
Cetop 3 single station subplate / pump unloading / relief valve

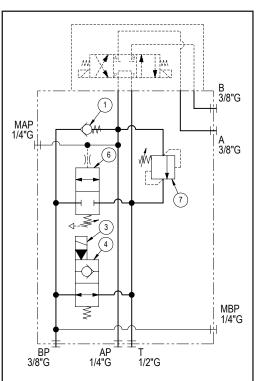
H3640

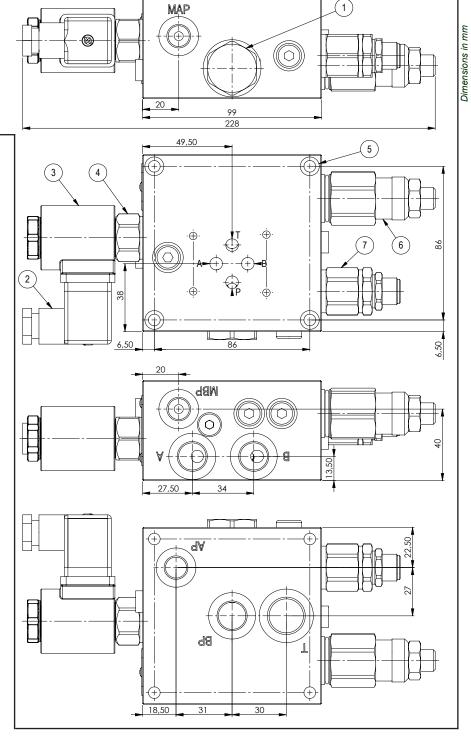


HYDROVER

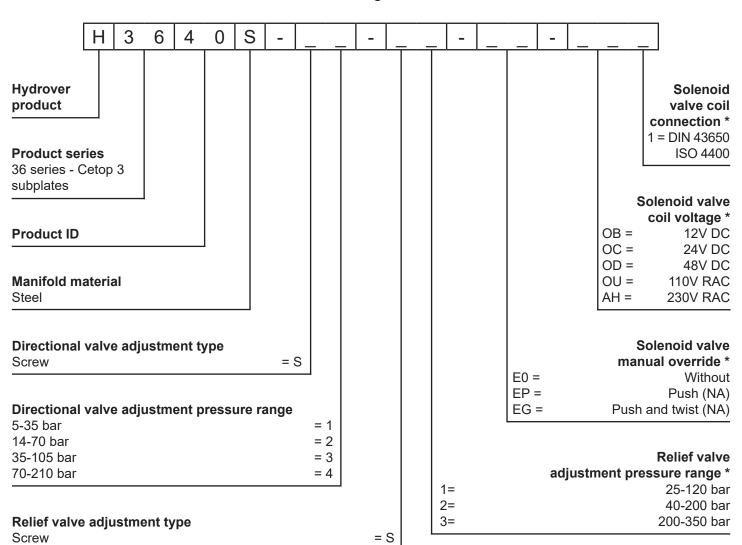
Technical data		
Max. pressure	350 bar	
Low pressure max. flow	30 lpm	
High pressure max. flow	10 lpm	
Weight	4,27 Kg	
Manifold material	Steel	
AP / MAP / MBP ports	1/4" G	
BP / A /B ports	3/8" G	
T port	1/2" G	







Ordering code



* Omit if not required. For example, to order the product without coil, omit the coil voltage and connection options: eg. H3640S-S2-S3-E0.

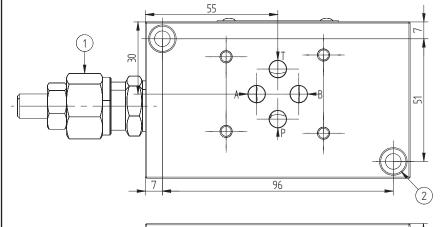
To inhibit the low-pressure release solenoid valve, replace the related options with TL: eg. H3640S-S2-S3-TL. In the cavity it will be mounted a long plug.

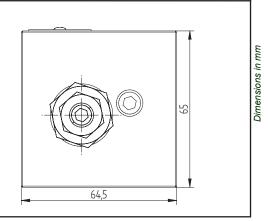
Valve	Cavity	Long plug code
Bosch Rexroth solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000	CA-08A-2N	0489A2005600000

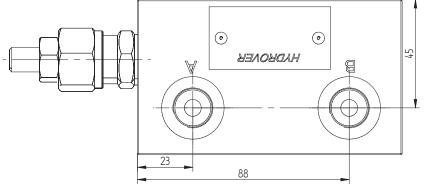
N°	Description	Q.ty
1	Bosch Rexroth check valve	1
2	Connector DIN 43650 ISO 4400	1
3	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 **	1
4	Bosch Rexroth solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000 depicted without manual override **	1
5	Ø 6,5 through hole with counterbore for mounting	4
6	Directional valve normally closed	1
7	Bosch Rexroth relief valve VMD1.025 **	1

^{**} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

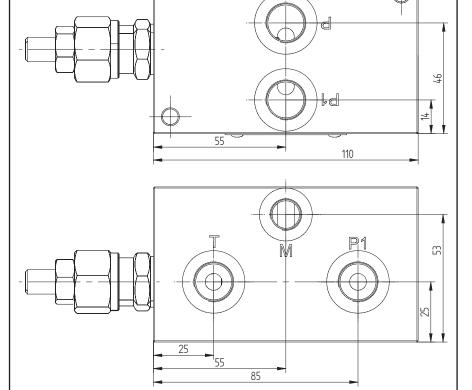
Cetop 3 single station subplate for serial circuit relief valve with separated discharged port / 30 lpm

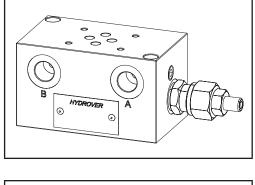


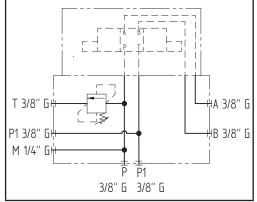




Technical data		
250 bar		
30 lpm *		
1,3 Kg		
Aluminium		
1/4" G		
3/8" G		







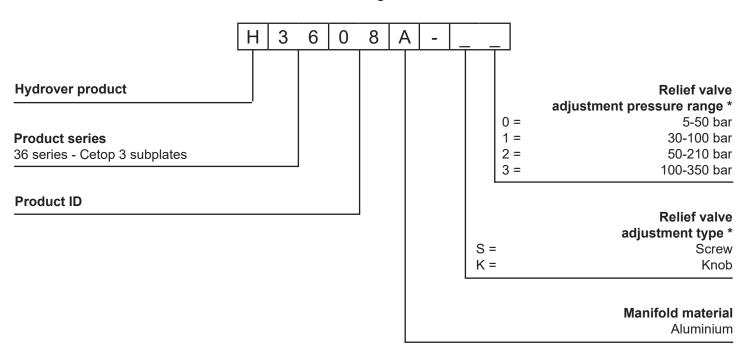
N°	Description	Q.ty
1	Bosch Rexroth relief valve VS-30 *	1
2	Ø 6,5 through hole for mounting with counterbore	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



36 SERIES **H3608**

Ordering code



^{*} Omit if not required. For example, to order the product without the relief cartridge valve, omit the pressure range and adjustment type options: H3608A.

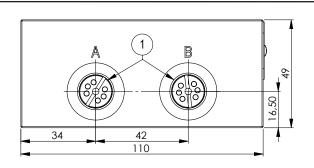
The manifold will still be provided with the corrisponding cavity.

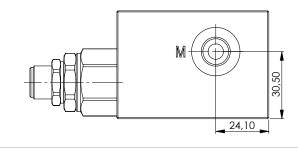
To inhibit a relief valve, replace the related options with TL: eg. H3608A-TL.

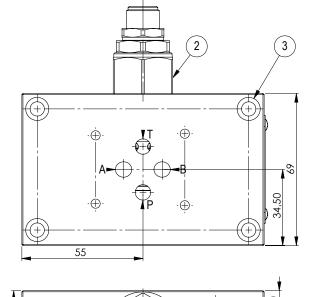
Valve	Cavity	Long plug code
Pressure relief valve VS-30	008	D8TVMDC

Cetop 3 single station subplate / relief valve fixed setting flow regulators on A and/or B

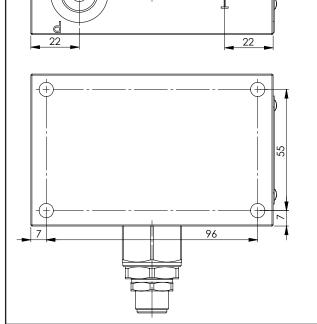
H3641

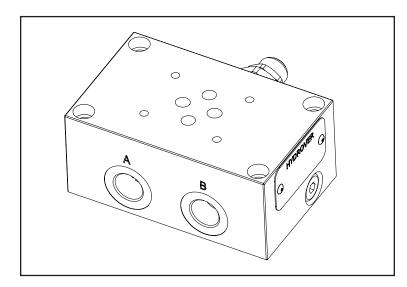


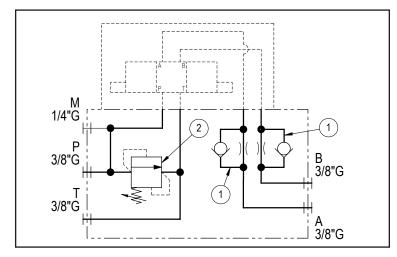




Technical data				
Max. pressure	250 bar			
Max. flow	25 lpm			
Weight	1,1 Kg			
Manifold material	Aluminium			
M port	1/4" G			
P/T/A/B ports	3/8" G			







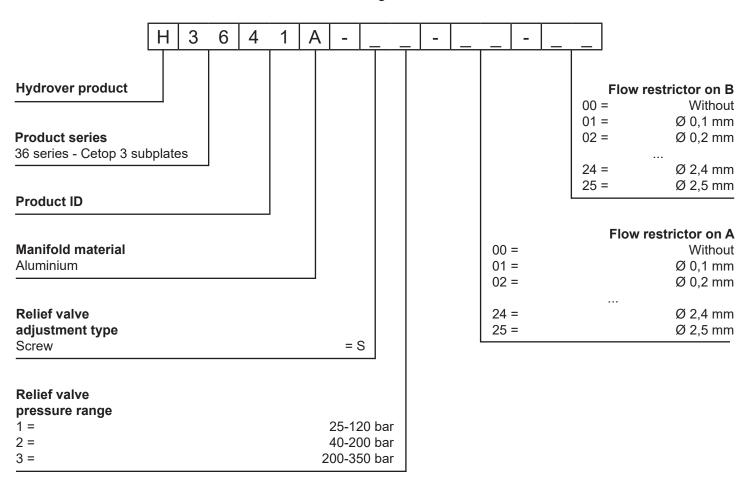
N°	N° Description			
1	Bosch Rexroth unidirectional flow restrictor GSU1.38 *	2		
2	Bosch Rexroth relief valve VMD1.025 *	1		
3	Ø 6,5 through hole for mounting with counterbore	4		

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

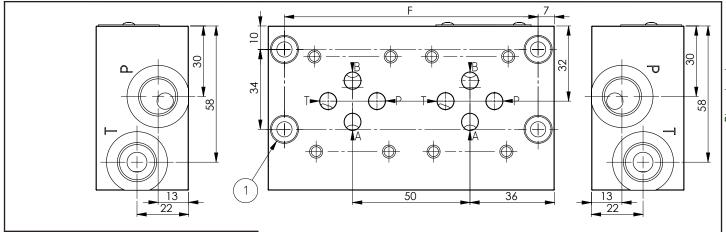
30,50



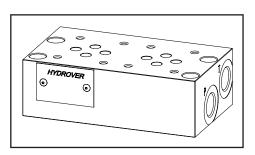
36 SERIES **H3641**



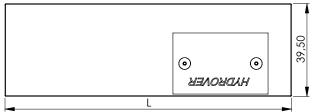
Cetop 3 subplate from 2 to 9 stations crossing P-T ports 3/8" G / back A-B ports 3/8" G

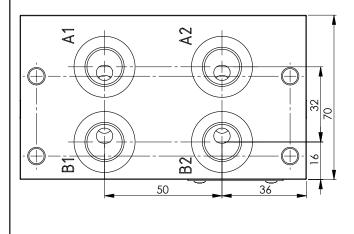


Technical data						
Max. pressure	250 bar					
Max. pressure su T	25 bar					
2 stations weight	0,83 Kg					
3 stations weight	1,18 Kg					
4 stations weight	1,53 Kg					
5 stations weight	1,88 Kg					
6 stations weight	2,23 Kg					
7 stations weight	2,58 Kg					
8 stations weight	2,93 Kg					
9 stations weight	3,28 Kg					
Manifold material	Aluminium					
P/T/A/B ports	3/8" G					

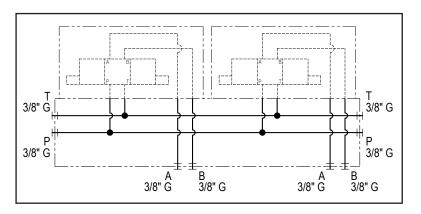


N°	Description	Q.ty
1	Ø 6,5 through hole for mounting	4



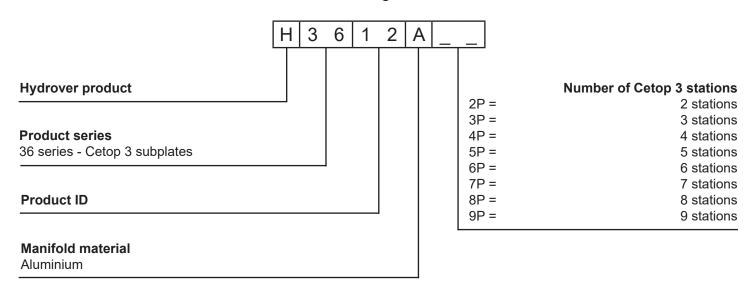


Stat.	2	3	4	5	6	7	8	9
F	108	158	208	258	308	358	408	458
L	122	172	222	272	322	372	422	472

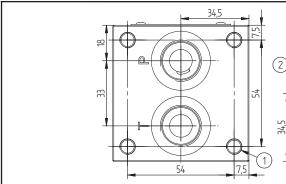


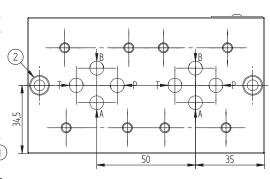


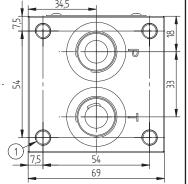
36 SERIES **H3612**



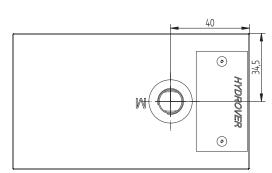
Cetop 3 subplate from 1 to 7 stations crossing P-T ports 1/2" G / side A-B ports 3/8" G

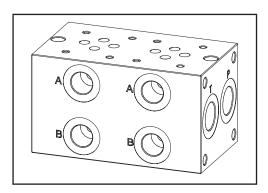


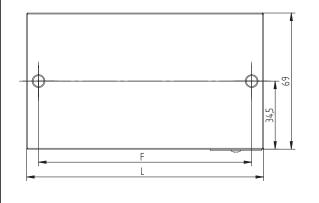


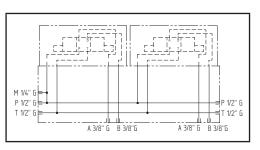


Technical data						
	Aluminium	Steel				
Press. max.	250 bar	350 bar				
1 stat. weight	0,8 Kg	2,2 Kg				
2 stat. weight	1,4 Kg	3,9 Kg				
3 stat. weight	2 Kg	5,5 Kg				
4 stat weight	2,6 Kg	7,2 Kg				
5 stat. weight	3,2 Kg	8,8 Kg				
6 stat. weight	3,8 Kg	10,5 Kg				
7 stat. weight	4,4 Kg 12,1 k					
M port	1/4" G					
A / B ports	3/8" G					
P / T ports	1/2" G					









3		B		16 37
,	•	50	35	

N°	Description	Q.ty
1	M8x15 thread for mounting	8
2	Ø 5,5 through hole for mounting	2

Stat.	1	2	3	4	5	6	7
F	58	108	158	208	258	308	358
L	70	120	170	220	270	320	370



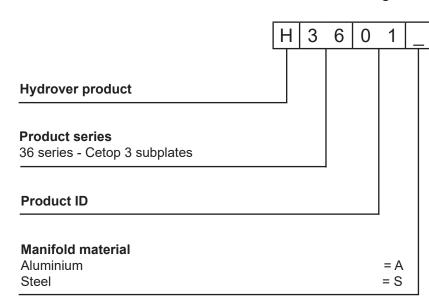
H3601

7 stations

Ordering code

1P =

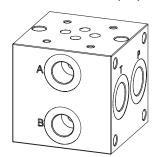
2P =



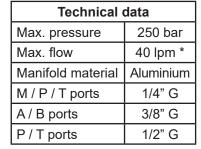
Number of Cetop 3 stations 1 station 2 stations

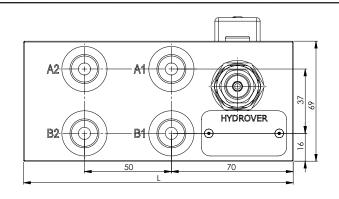
3P = 3 stations 4P = 4 stations 5P = 5 stations 6P = 6 stations 7P =

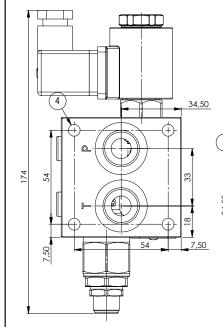
1 station version (1P)

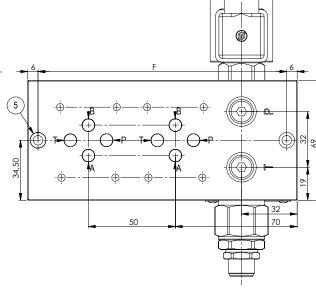


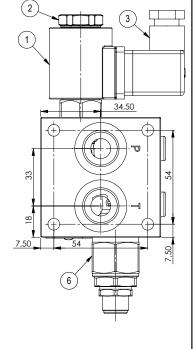
Cetop 3 subplate from 2 to 7 stations / bypass and relief valves crossing P-T ports 1/2" G / side A-B ports 3/8" G / 40 lpm



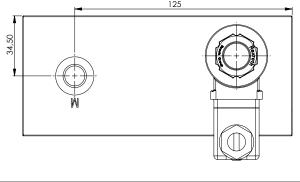


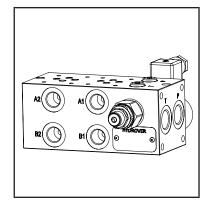


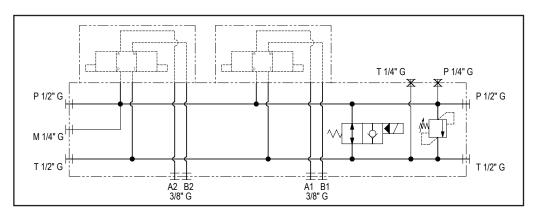




Stat.	F	L	Weight
2	143	155	1,7 Kg
3	193	205	2,3 Kg
4	243	255	2,9 Kg
5	293	305	3,5 Kg
6	343	355	4,2 Kg
7	393	405	4,8 Kg



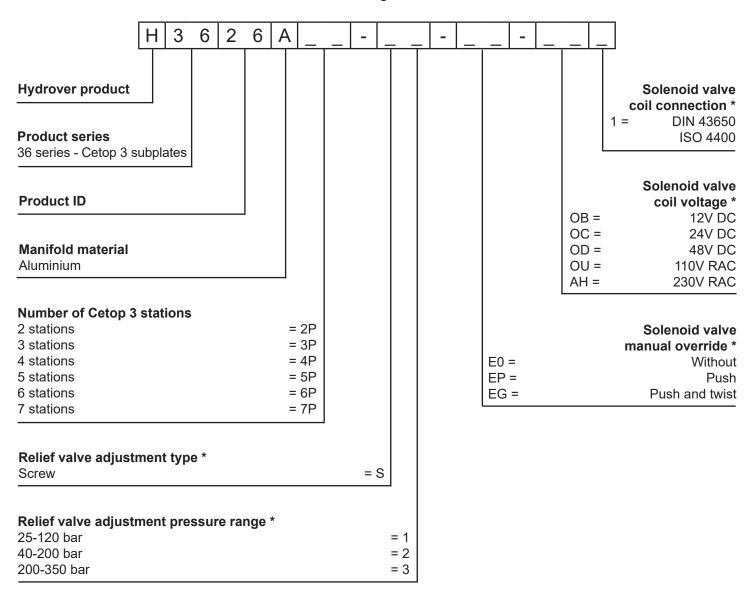






36 SERIES **H3626**

Ordering code



* Omit if not required. For example, to order the product without coil, omit the coil voltage and connection options: eg. H3626A3P-S2-E0.

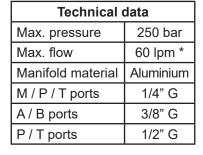
To inhibit the relief valve, replace the related options with TL: eg. H3626A3P-TL-E0-OC1.

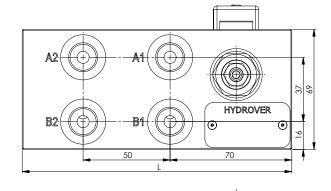
Valve	Cavity	Long plug code
Bosch Rexroth solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000	CA-08A-2N	0489A2005600000
Pressure relief valve VMD1.040	CA-10A-2N	0489A2008500000

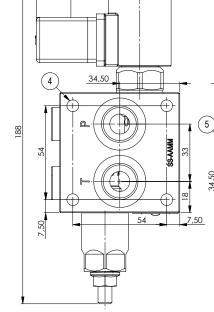
N°	Description	Q.ty
1	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 **	1
2	Bosch Rexroth solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000 depicted without manual override **	1
3	Connector DIN 43650 ISO 4400	1
4	Foro M8x15 thread for mounting	8
5	Ø 5,5 through hole with counterbore for mounting	2
6	Bosch Rexroth relief valve VMD1.040 **	1

^{**} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

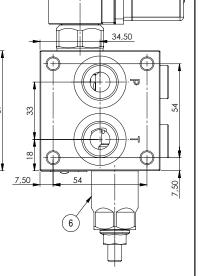
Cetop 3 subplate from 2 to 7 stations / bypass and relief valves crossing P-T ports 1/2" G / side A-B ports 3/8" G / 60 lpm



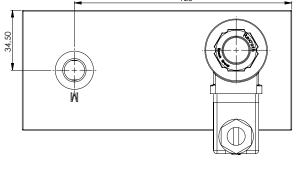


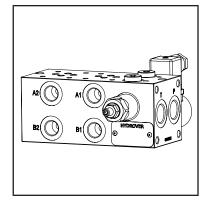


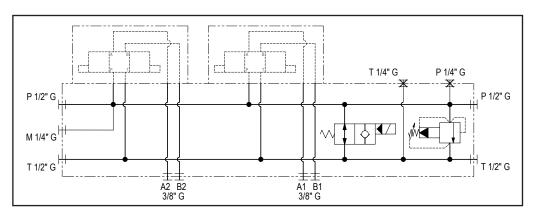
- 6		F	-6	 -
5)— ()— ()— ()— ()— ()— ()— ()— ()— ()— ()—			34
34,50	A	——————————————————————————————————————		<u></u>
7,50	50		32 70	
	-	125		٦



Stat.	F	L	Weight
2	143	155	1,8 Kg
3	193	205	2,4 Kg
4	243	255	3,0 Kg
5	293	305	3,6 Kg
6	343	355	4,3 Kg
7	393	405	4,9 Kg

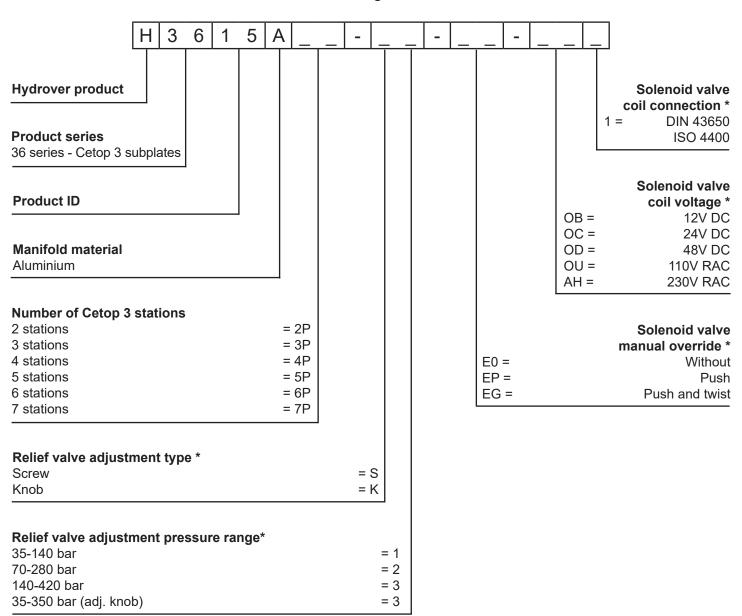






36 SERIES **H3615**

Ordering code



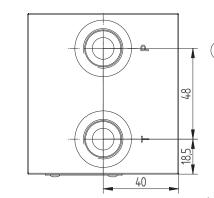
* Omit if not required. For example, to order the product without coil, omit the coil voltage and connection options: eg. H3626A3P-S2-E0.

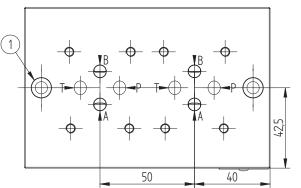
To inhibit the relief valve, replace the related options with TL: eg. H3626A3P-TL-E0-OC1.

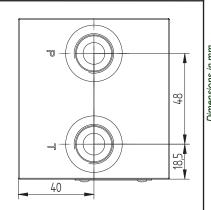
Valve	Cavity	Long plug code
Bosch Rexroth solenoid valve VEI-16-10A-NA OD.15.06.36-Y-000000	CA-10A-2N	0489A2008500000
Pressure relief valve VSPN-10A	CA-10A-2N	0489A2008500000

N°	Description	Q.ty
1	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
2	Bosch Rexroth solenoid valve VEI-16-10A-NA OD.15.06.36-Y-000000 depicted without manual override *	1
3	Connector DIN 43650 ISO 4400	1
4	M8x15 thread for mounting	8
5	Ø 5,5 through hole with counterbore for mounting	2
6	Bosch Rexroth relief valve VSPN-10A* depicted with screw adjustment	1

Cetop 3 subplate from 2 to 8 stations / crossing P-T ports 1/2" G side A-B ports 3/8" G / side MA-MB ports 1/4" G

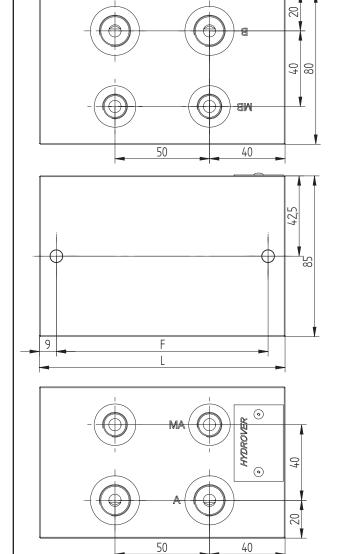






Technical	data
Max. pressure	250 bar
2 stations weight	2,3 Kg
3 stations weight	3,4 Kg
4 stations weight	4,5 Kg
5 stations weight	5,6 Kg
6 stations weight	6,8 Kg
7 stations weight	7,9 Kg
8 stations weight	9,2 Kg
Manifold material	Aluminium
MA / MB ports	1/4" G
A / B ports	3/8" G
P / T ports	1/2" G

N°	Description	Q.ty
1	Ø 6,5 through hole for mounting	2

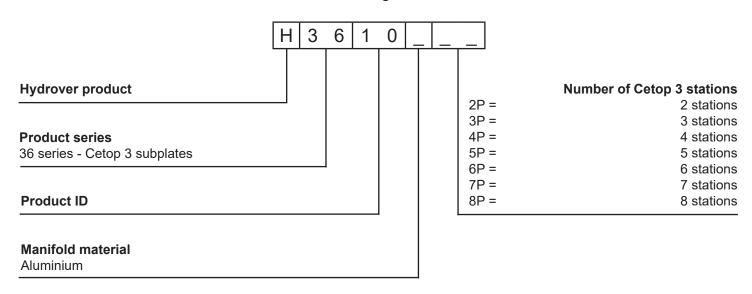


P 1/2" G H	HP 1/2" G HT 1/2" G MA A B MB MA A B MB 1/4" G 3/8"G 1/4" G

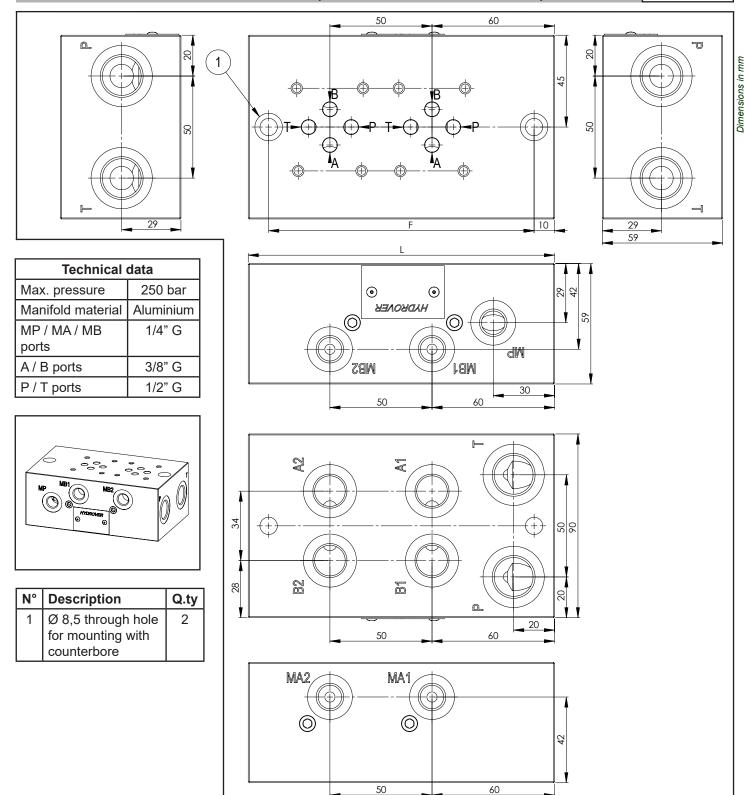
Stat.	2	3	4	5	6	7	8
F	112	162	212	262	312	362	412
L	130	180	230	280	330	380	430

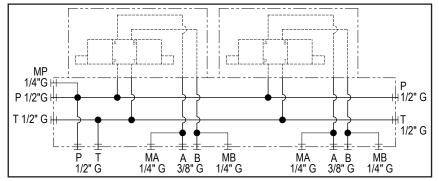


36 SERIES **H3610**



Cetop 3 subplate from 2 to 8 stations / crossing P-T ports 1/2" G back A-B ports 3/8" G / side MA-MB ports 1/4" G

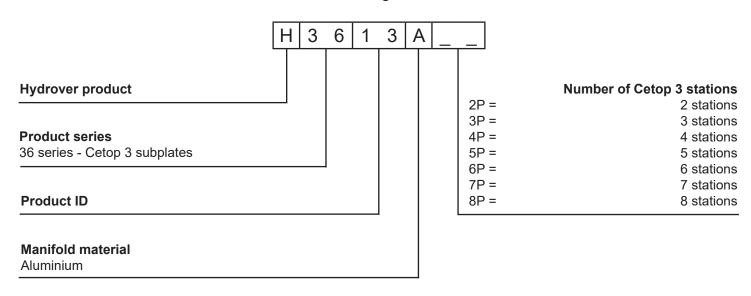




Stat.	2	3	4	5	6	7	8
F	130	180	230	280	330	380	430
L	150	200	250	300	350	400	450
W. Kg	2	2,7	3,4	4,1	4,8	5,5	6,2



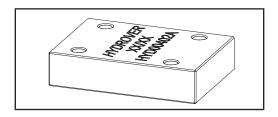
36 SERIES **H3613**

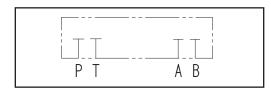


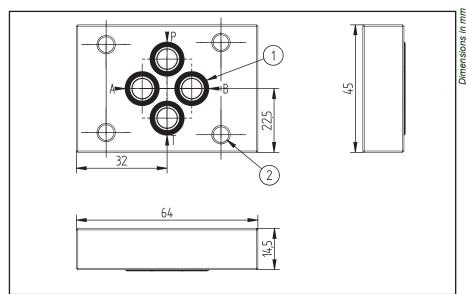
Cetop 3 station blanking plate

Aluminium version

Technical data	
Max. pressure	250 bar
Weight	0,1 Kg

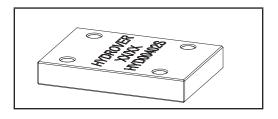


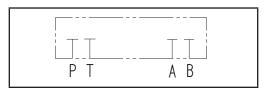


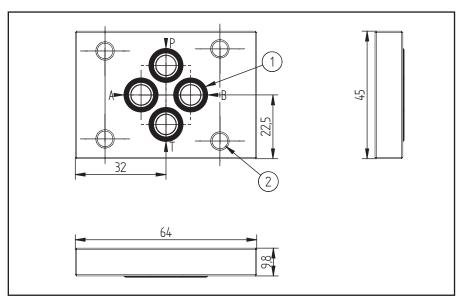


Steel version

Technical data	
Max. pressure	350 bar
Weight	0,2 Kg



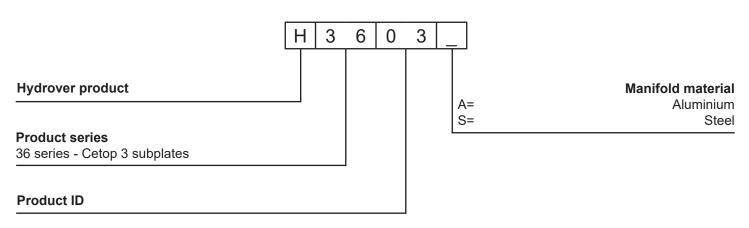




	N°	Description	Q.ty
	1	OR 108 i. Ø 8,73 cross section 1,78	4
ſ	2	Ø 5,5 through hole for mounting	4



36 SERIES **H3603**

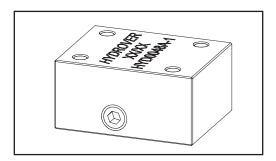


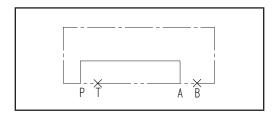
Cetop 3 station blanking plate / P in A

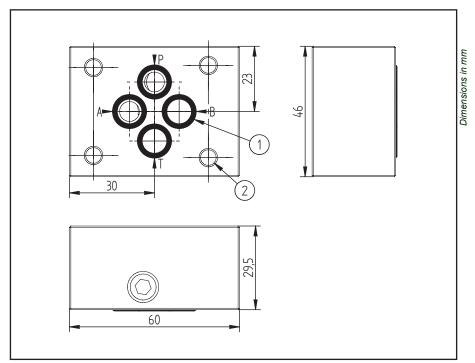
H3604

Technical data	
Max. pressure	250 bar
Weight	0,2 Kg

HYDROUER



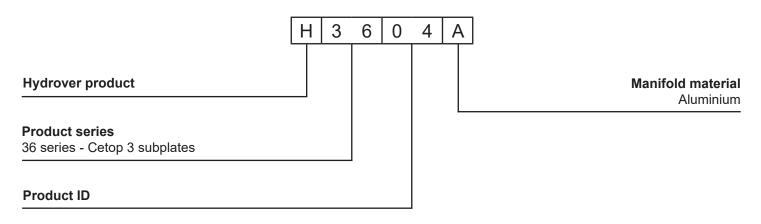




N°	Description	Q.ty
1	OR 108 i. Ø 8,73 cross section 1,78	4
2	Ø 5,5 through hole for mounting	4

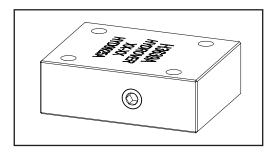


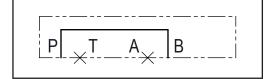
H3604

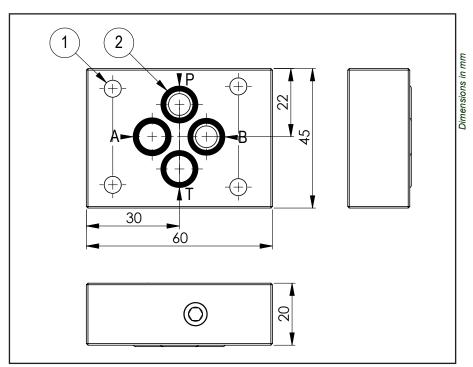


Cetop 3 station blanking plate / P in B

Technical data	
Max. pressure	250 bar
Weight	0,15 Kg



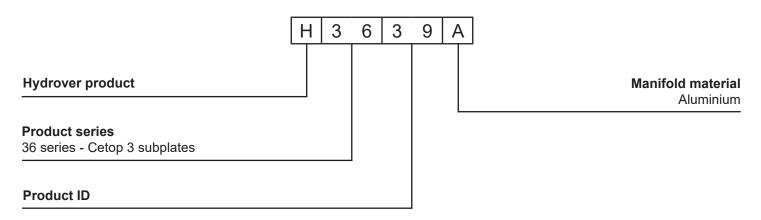




N°	Description	Q.ty
1	Ø 5,5 through hole for mounting	4
2	OR 108 i. Ø 8,73 cross section 1,78	4



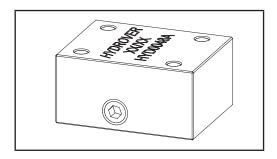
36 SERIES **H3639**

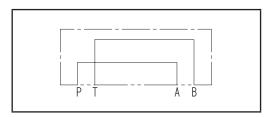


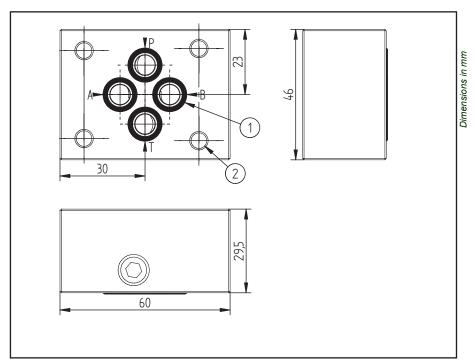


Cetop 3 station blanking plate / P in A / B in T

Technical data	
Max. pressure	250 bar
Weight	0,2 Kg







N°	Description	Q.ty
1	OR 108 i. Ø 8,73 cross section 1,78	4
2	Ø 5,5 through hole for mounting	4



H3605

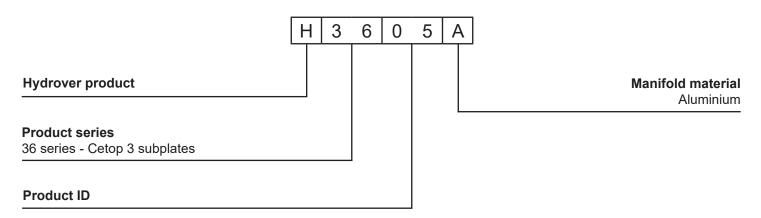
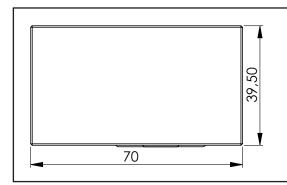
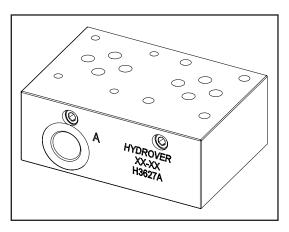
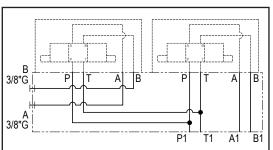


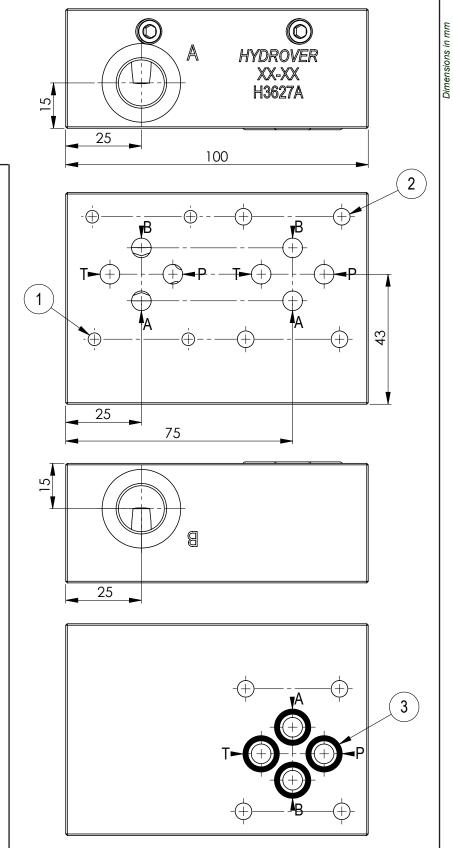
Plate for adding a Cetop 3 station / side A-B ports 3/8" G



Technical data	
Max. pressure	250 bar
Weight	0,7 Kg



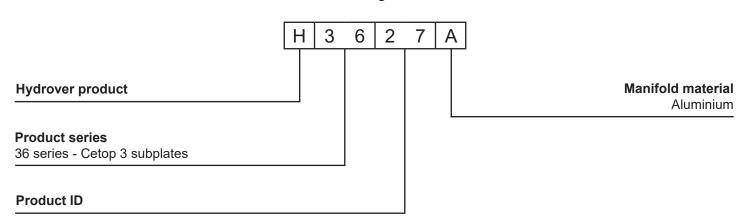




N°	Description	Q.ty
1	M5x10 for mounting	4
2	Ø 5,5 through hole for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	4



36 SERIES **H3627**



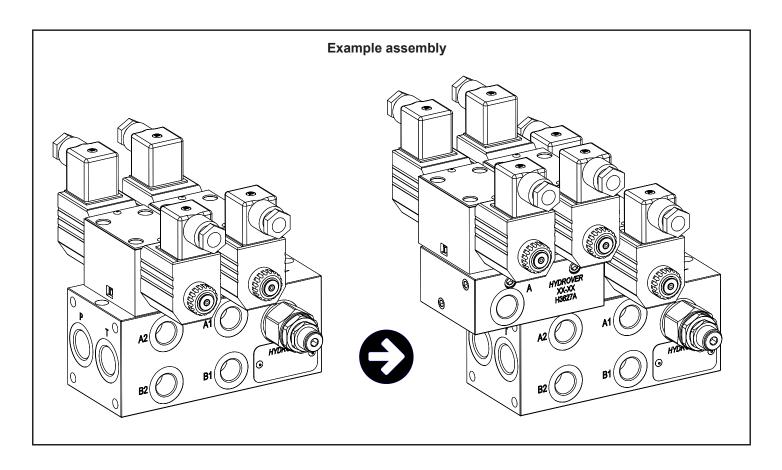
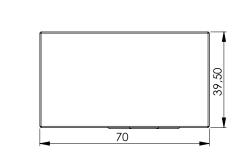
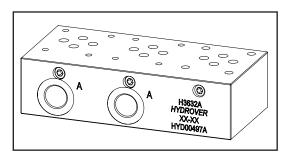


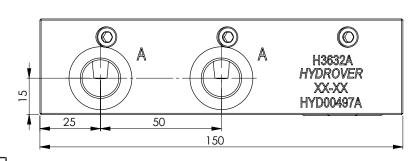
Plate for adding two Cetop 3 stations / side A-B ports 3/8" G

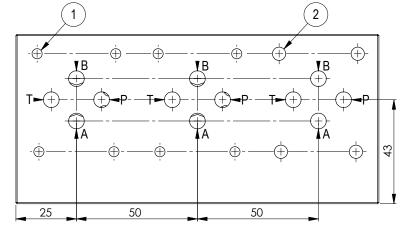


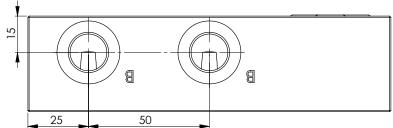
Technical data		
Max. pressure	250 bar	
Weight	1,05 Kg	

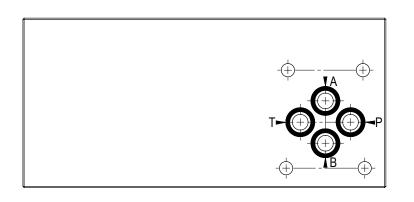


N°	Description	Q.ty
1	M5x10 for mounting	8
2	Ø 5,5 through hole for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	4



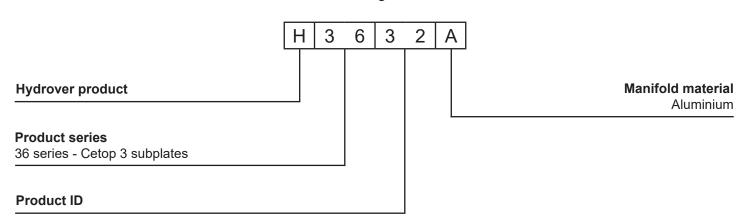


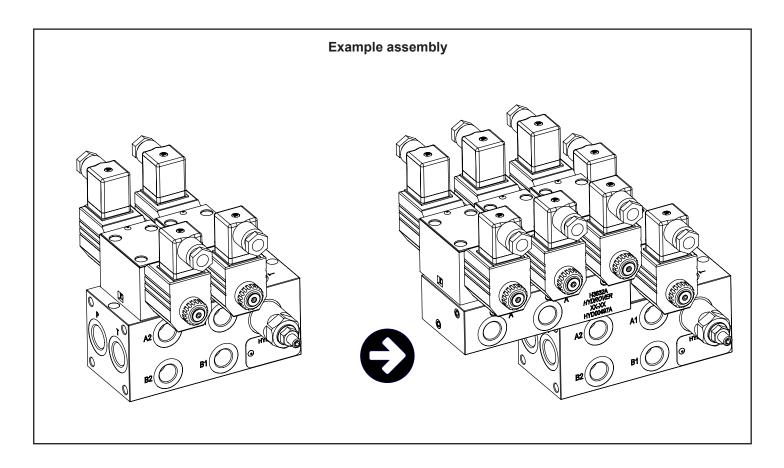






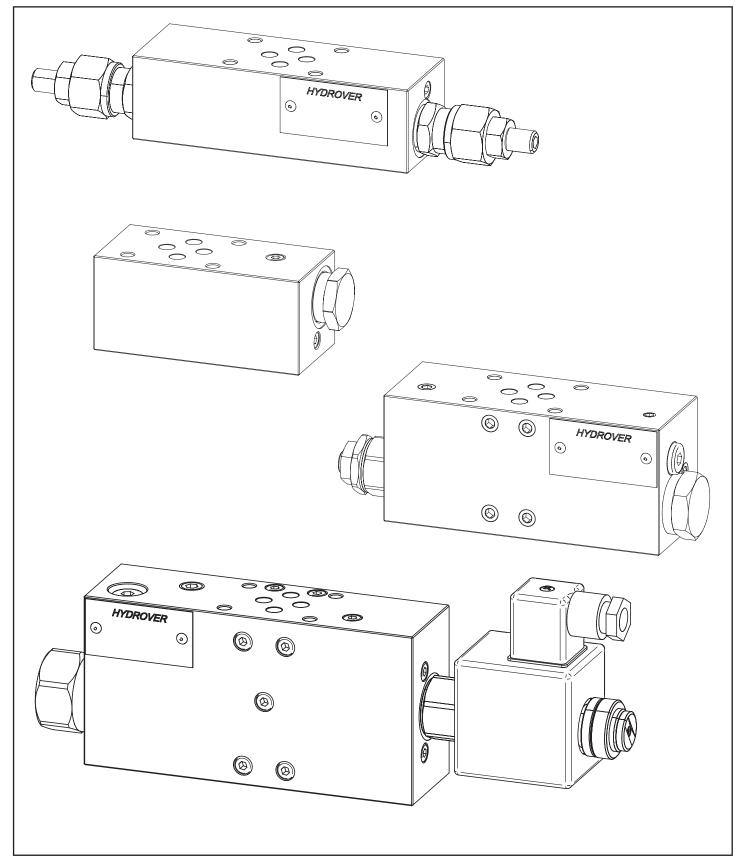
H3632





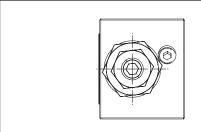


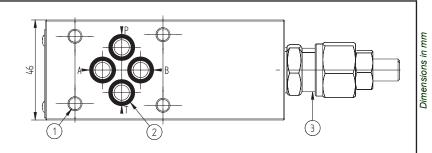
39 SERIES 39 series - Cetop 3 modular valves



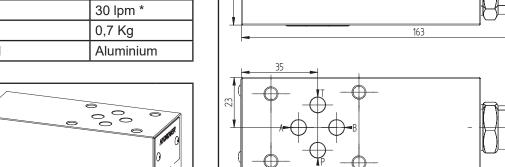
Cetop 3 modular relief valve on P / 30 lpm

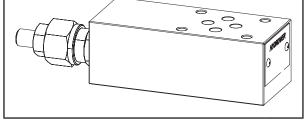
H3901

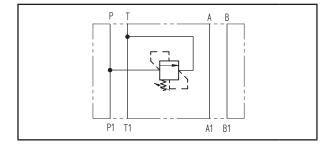




Technical data		
Max. pressure	250 bar	
Max. flow	30 lpm *	
Weight	0,7 Kg	
Manifold material	Aluminium	







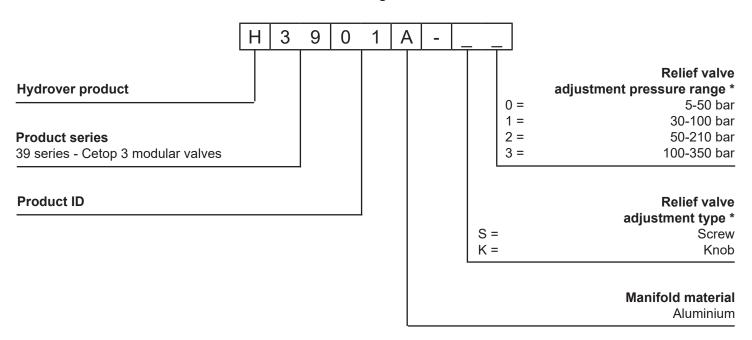
N°	Description	Q.ty
1	Ø 5,5 through hole for mounting	4
2	OR 108 i. Ø 8,73 cross section 1,78	4
3	Bosch Rexroth relief valve VS-30 * depicted with screw adjustment	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



39 SERIES **H3901**

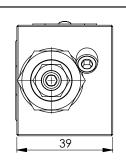
Ordering code



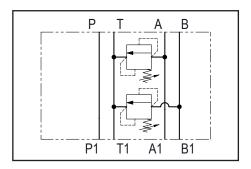
^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H3901A.

The manifold will still be provided with the corrisponding cavity.

Cetop 3 modular relief valve on A and B / 20 lpm

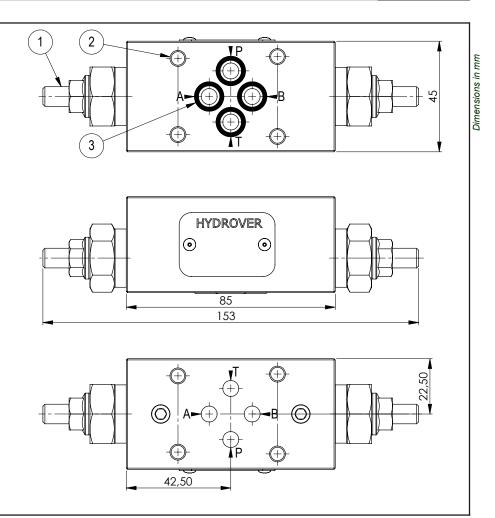


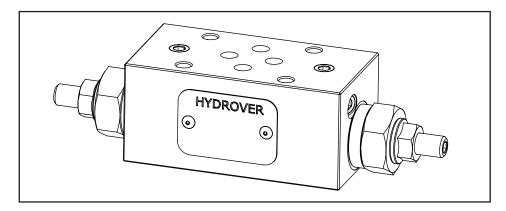
Technical data		
Max. pressure	250 bar	
Max. flow	20 lpm *	
Weight	0,55 Kg	
Manifold material	Aluminium	



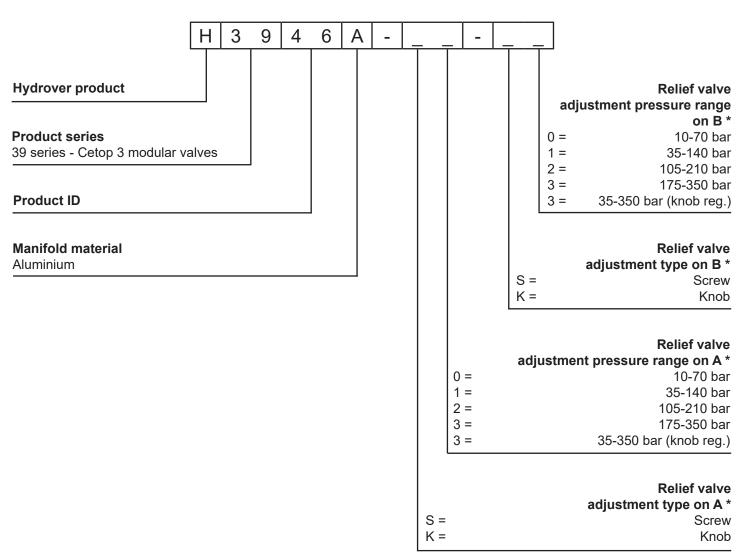
N°	Description	Q.ty
1	Bosch Rexroth relief valve VSBN-08A depicted depicted with screw adjustment *	2
2	Ø 5,5 through hole for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue





Ordering code



^{*} Omit if not required. To order the product without the pressure relief cartridge valves, omit the pressure range and the adjustment type options for A and B: H3946A.

The manifold will still be provided with the corrisponding cavities.

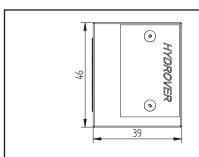
To inhibit a function, replace the related valve options with TL: eg H3946A-S2-TL.

In the cavity it will be mounted a long plug.

Valve	Cavity	Long plug code
Pressure relief valve VSBN-08A	CA-08A-2N	0489A2005600000

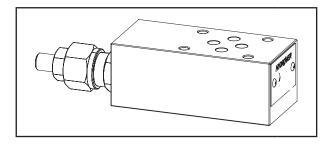
Cetop 3 modular relief valve on A / 30 lpm

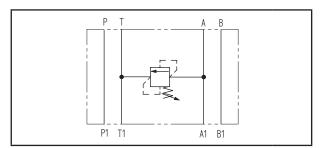


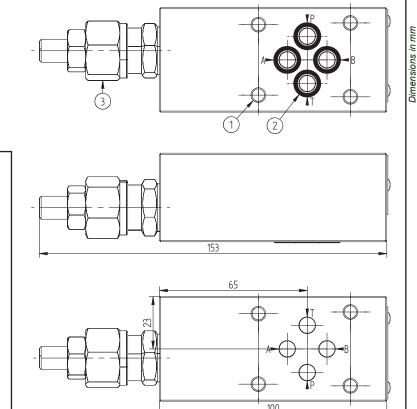


HYDROVER

Technical data		
Max. pressure	250 bar	
Max. flow	30 lpm *	
Weight	0,6 Kg	
Manifold material	Aluminium	







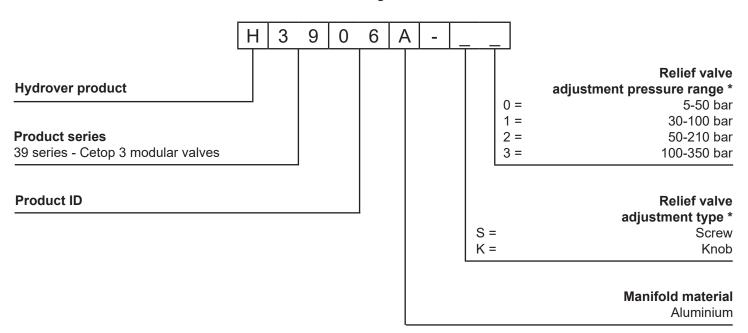
N°	Description	Q.ty
1	Ø 5,5 through hole for mounting	4
2	OR 108 i. Ø 8,73 cross section 1,78	4
3	Bosch Rexroth relief valve VS-30 * depicted with screw adjustment	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



39 SERIES **H3906**

Ordering code

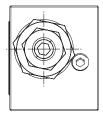


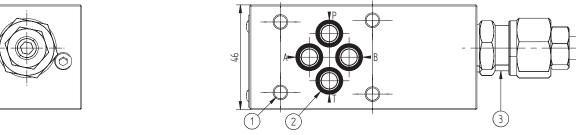
^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H3906A.

The manifold will still be provided with the corrisponding cavity.

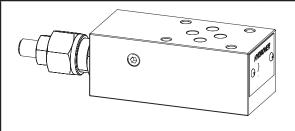
Cetop 3 modular relief valve on B / 30 lpm

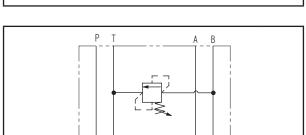
H3905





Technical data		
Max. pressure	250 bar	
Max. flow	30 lpm *	
Weight	Aluminium 0,6 Kg Steel 1,4 Kg	
Manifold material Aluminium or stee		





A1 B1

39	153
35 A B 100	

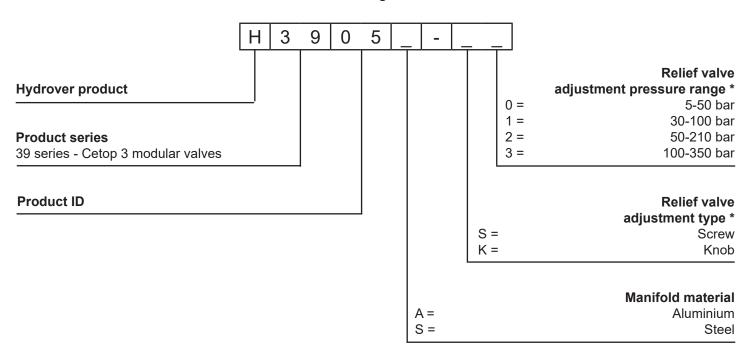
N°	Description	Q.ty	
1	1 Ø 5,5 through hole for mounting		
2	2 OR 108 i. Ø 8,73 cross section 1,78		
3	Bosch Rexroth relief valve VS-30 * depicted with screw adjustment	1	

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



39 SERIES **H3905**

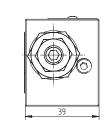
Ordering code

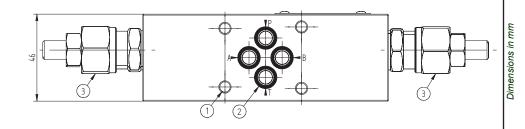


^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H3905A.

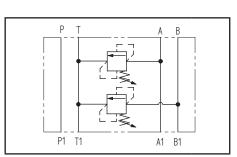
The manifold will still be provided with the corrisponding cavity.

Cetop 3 modular relief valve on A and B / 30 lpm



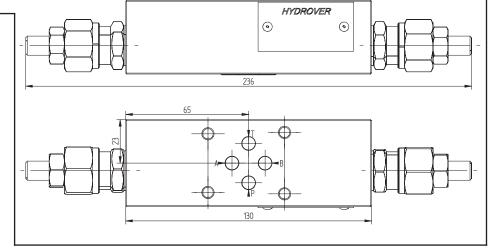


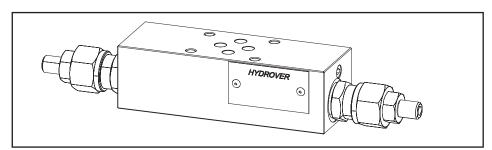
Technical data	
Max. pressure	250 bar
Max. flow	30 lpm *
Weight	0,9 Kg
Manifold material	Aluminium



N°	Description	Q.ty
1	Ø 5,5 through hole for mounting	4
2	OR 108 i. Ø 8,73 cross section 1,78	4
3	Bosch Rexroth relief valve VS-30 * depicted with screw adjustment	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

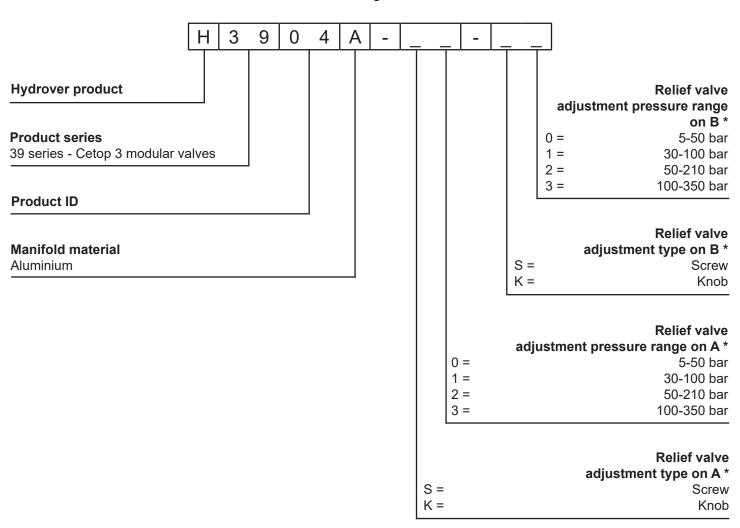






39 SERIES **H3904**

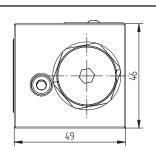
Ordering code



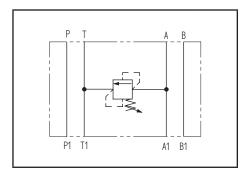
^{*} Omit if not required. To order the product without the pressure relief cartridge valves, omit the pressure range and the adjustment type options for A and B: H3904A.

The manifold will still be provided with the corrisponding cavities.

Cetop 3 modular relief valve on A / 70 lpm

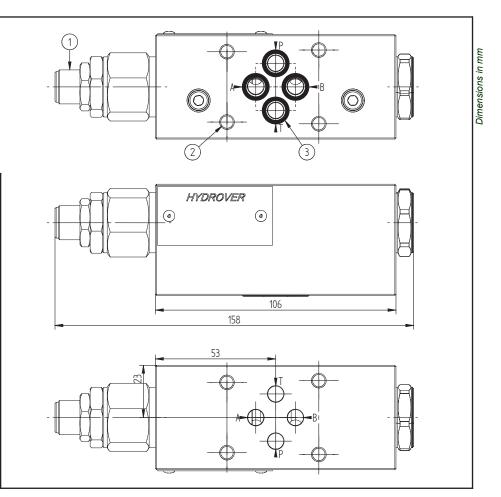


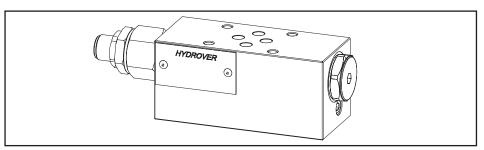
Technical data	
Max. pressure	250 bar
Max. flow	70 lpm *
Weight	0,9 Kg
Manifold material	Aluminium



N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.070 *	1
2	Ø 5,5 through hole for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

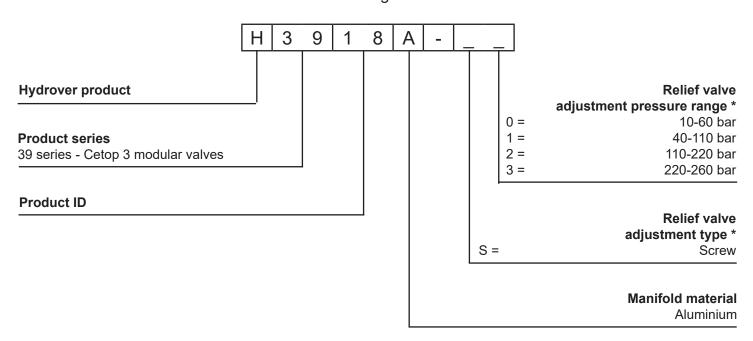






39 SERIES **H3918**

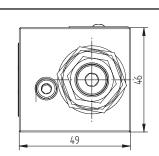
Ordering code



^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H3918A.

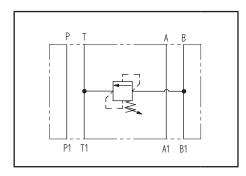
The manifold will still be provided with the corrisponding cavity.

Cetop 3 modular relief valve on B / 70 lpm



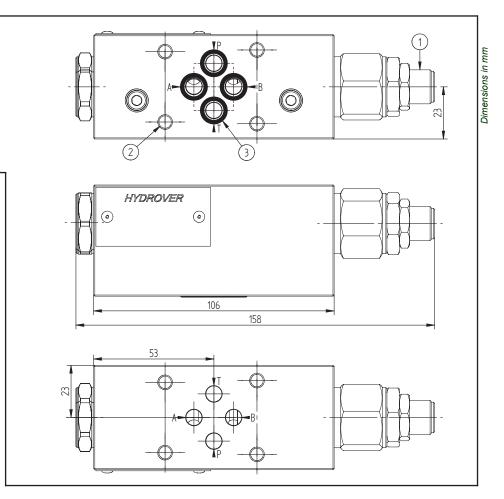
Technical data		
Max. pressure	250 bar	
Max. flow	70 lpm *	
Weight	0,9 Kg	
Manifold material	Aluminium	

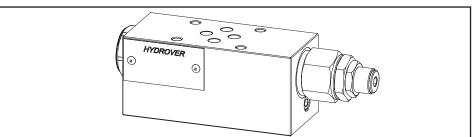
HYDROVER



N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.070 *	1
2	Ø 5,5 through hole for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

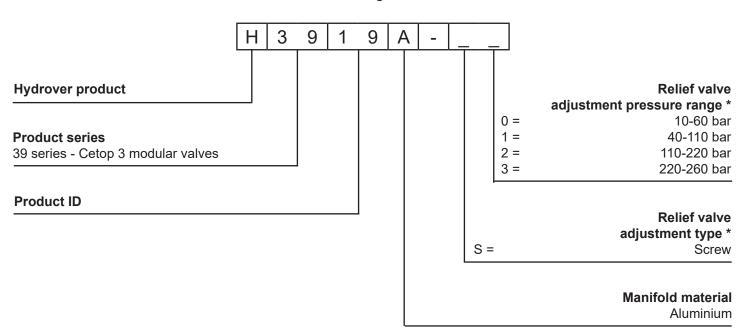






39 SERIES **H3919**

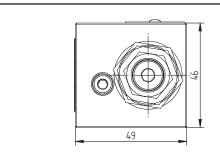
Ordering code



^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H3919A.

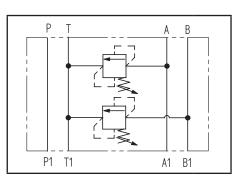
The manifold will still be provided with the corrisponding cavity.

Cetop 3 modular relief valve on A and B / 70 lpm

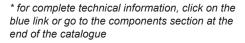


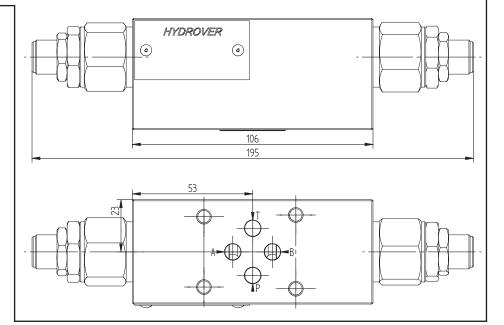
A-O-B-B-C-T-C-T-C-T-C-T-C-T-C-T-C-T-C-T-C-T
2 3

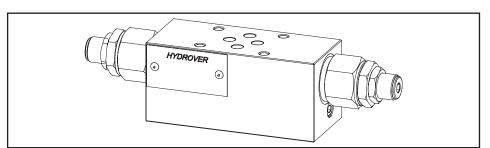
Technical data		
Max. pressure	250 bar	
Max. flow	70 lpm *	
Weight	1 Kg	
Manifold material	Aluminium	



N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.070 *	2
2	Ø 5,5 through hole for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	4



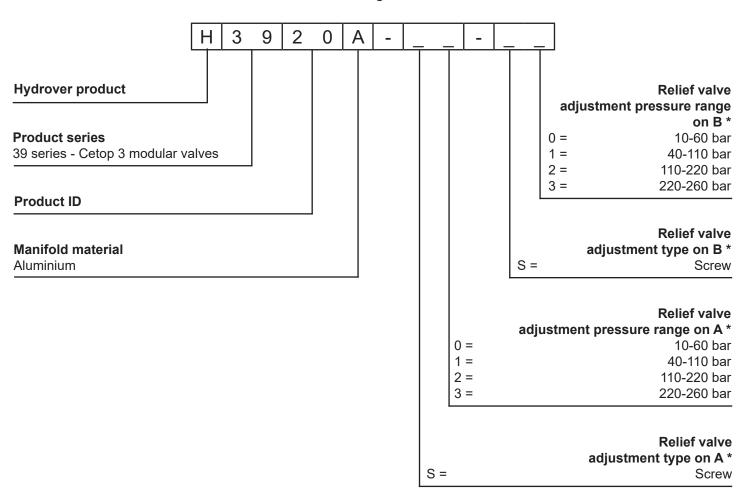






39 SERIES **H3920**

Ordering code

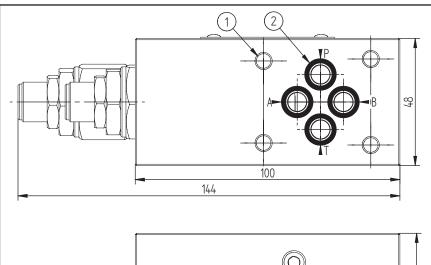


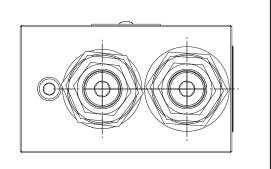
^{*} Omit if not required. To order the product without the pressure relief cartridge valves, omit the pressure range and the adjustment type options for A and B: H3920A.

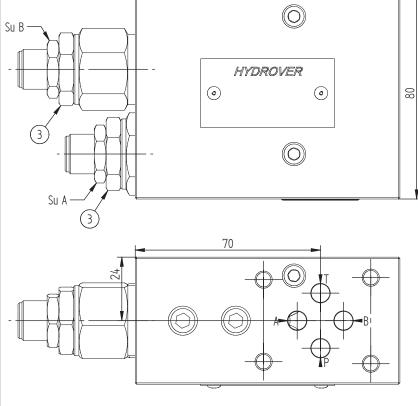
The manifold will still be provided with the corrisponding cavities.

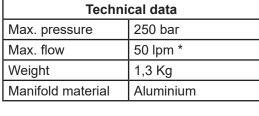


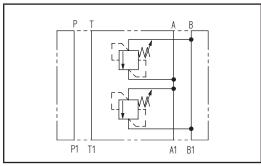
Cetop 3 modular valve with cross relief valves on A e B / 50 lpm



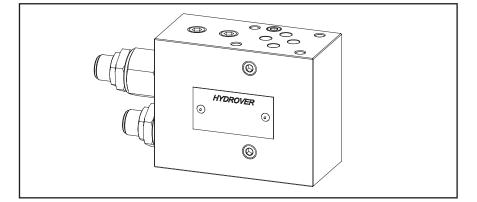








N°	Description	Q.ty
1	Ø 5,5 through hole for mounting	4
2	OR 108 i. Ø 8,73 cross section 1,78	4
3	Bosch Rexroth relief valve VMD1.070 *	2

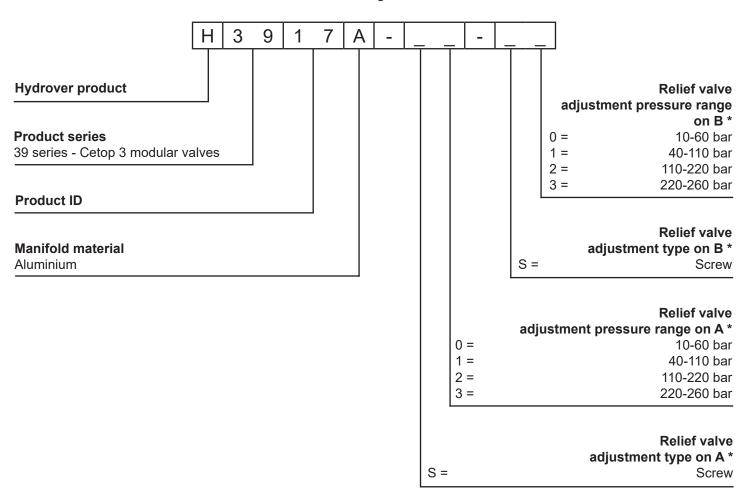


* for complete technical information, click on the blue link or go to the components section at the end of the catalogue



39 SERIES **H3917**

Ordering code



^{*} Omit if not required. To order the product without the pressure relief cartridge valves, omit the pressure range and the adjustment type options for A and B: H3917A.

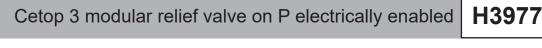
The manifold will still be provided with the corrisponding cavities.

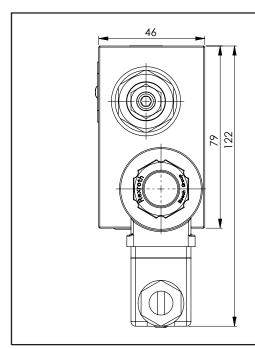
To inhibit a function, replace the related valve options with TL: eg H3917A-TL-S2.

In the cavity it will be mounted a long plug.

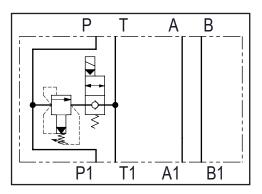
Valve	Cavity	Long plug code
Pressure relief valve VMD1.070	CA-10A-2N	0489A2008500000

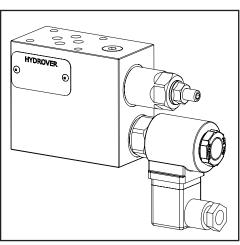
HYDROVER

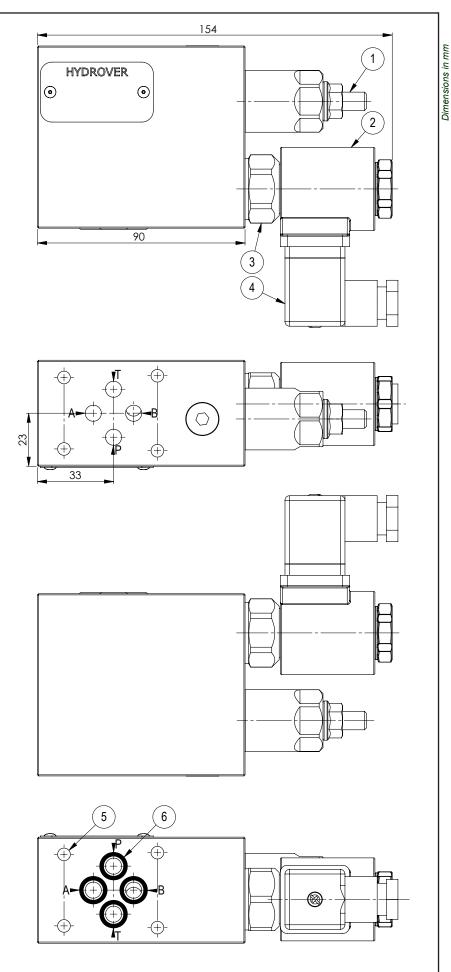




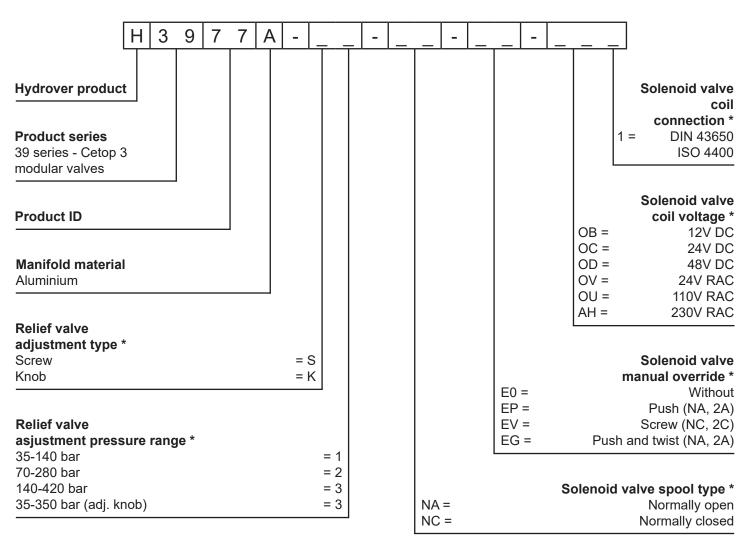
Technical data		
Max. pressure	250 bar	
Max. flow	50 lpm *	
Weight	1,4 Kg	
Manifold material	Aluminium	







Ordering code



^{*} Omit if not required. For example to order the product without the relief cartridge valve, omit the pressure range and adjustment type options: eg. H3977A-NC-E0-OC1.

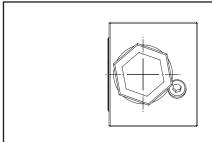
The manifold will still be provided with the corrisponding cavity.

N°	Description	Q.ty
1	Bosch Rexroth relief valve VSPN-10A* depicted with screw adjustment	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
3	Bosch Rexroth solenoid valve VEI-16-10A-NC OD.15.05.36-Y-000000 or VEI-16-10A-NA OD.15.06.36-Y-000000 depicted without manual override *	1
4	Connector DIN 43650 ISO 4400	1
5	Ø 5,5 through hole for mounting	4
6	OR 108 i. Ø 8,73 cross section 1,78	4

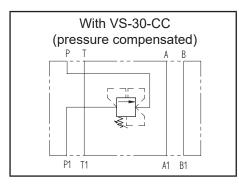
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

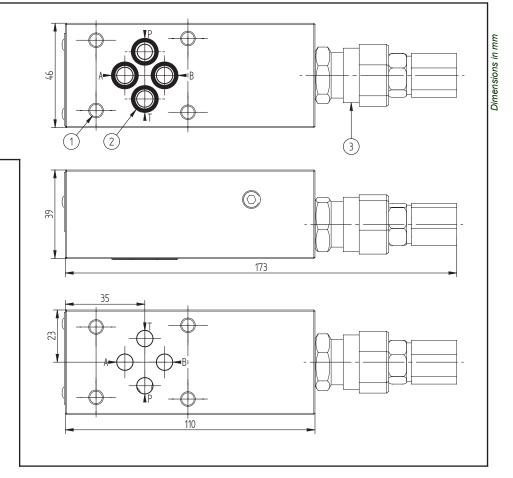


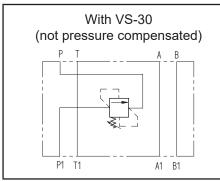
Cetop 3 modular sequence valve on P

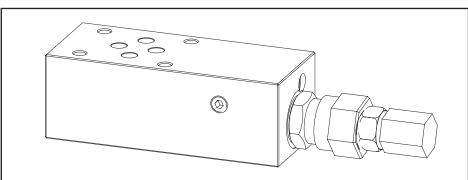


Technical data	
Max. pressure	250 bar
Max. flow	30 lpm *
Weight	0,7 Kg
Manifold material	Aluminium









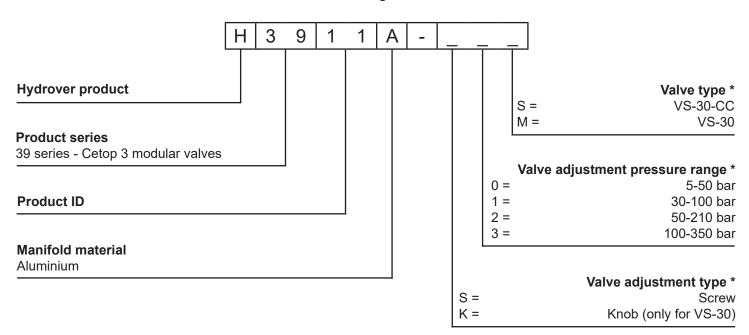
N'	Description	Q.ty
1	Ø 5,5 through hole for mounting	4
2	OR 108 i. Ø 8,73 cross section 1,78	4
3	Bosch Rexroth pressure compensated valve VS-30-CC * (as depicted) It's possibile to use a Bosch Rexroth non pressure compensated valve VS-30 * in case it is acceptable to add to the set pressure the pressure necessary for the second branch.	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



39 SERIES **H3911**

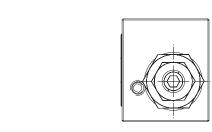
Ordering code

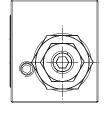


^{*} Omit if not required. To order the product without the cartridge valve, omit the adjustment type, valve pressure range and valve type options: H3911A.



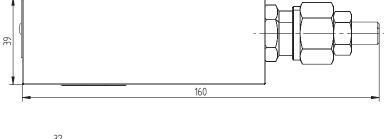
Cetop 3 modular relief valve for back pressure on T

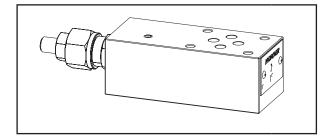


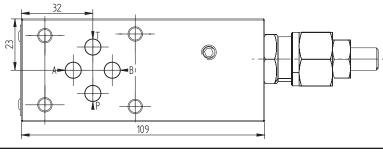


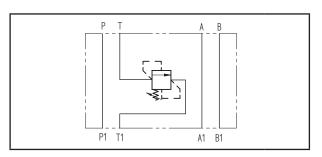
	or o
-	- 1

Technical data		
Max. pressure	250 bar	
Max. flow	30 lpm *	
Weight	0,7 Kg	
Manifold material	Aluminium	









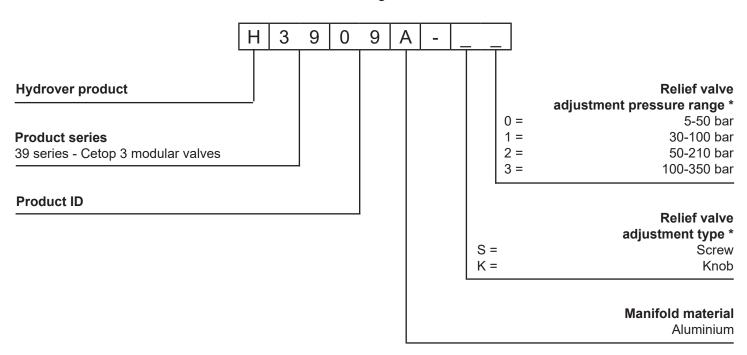
N°	Description	Q.ty
1	Ø 5,5 through hole for mounting 4	
2	OR 108 i. Ø 8,73 cross section 1,78 4	
3	Bosch Rexroth relief valve VS-30 * depicted with screw adjustment	

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



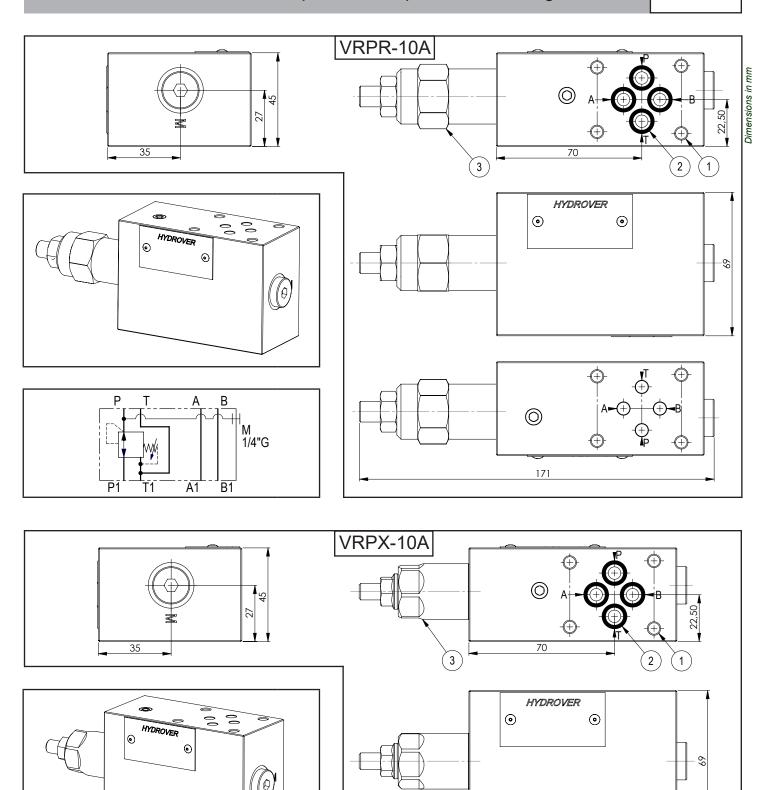
39 SERIES **H3909**

Ordering code

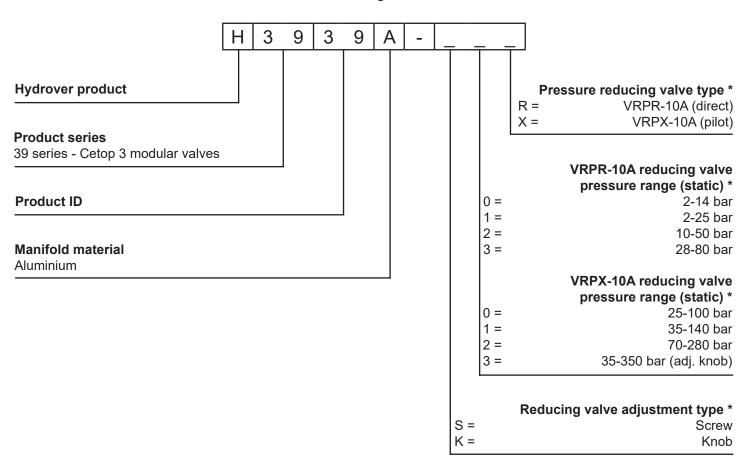


^{*} Omit if not required. To order the product without the relief cartridge valve, omit the adjustment type and pressure range options: H3909A.

Cetop 3 modular pressure reducing valve on P



Ordering code



^{*} Omit if not required. To order the product without the pressure reducing cartridge valve, omit the valve adjustment type, valve pressure range and valve type options: H3939A.

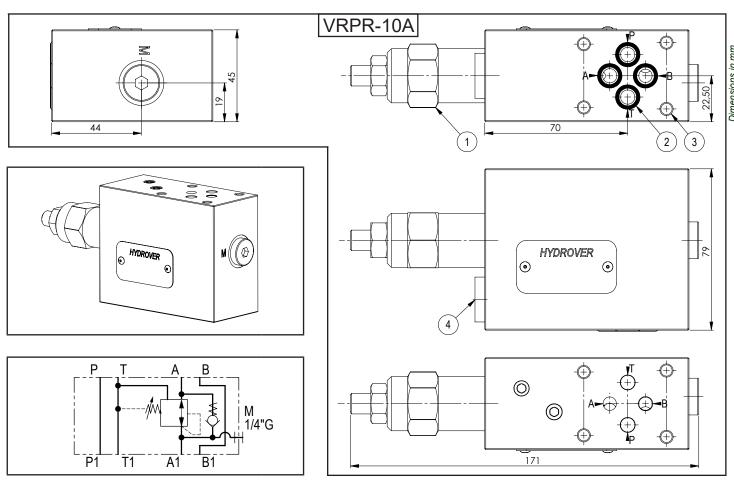
The manifold will still be provided with the corrisponding cavity.

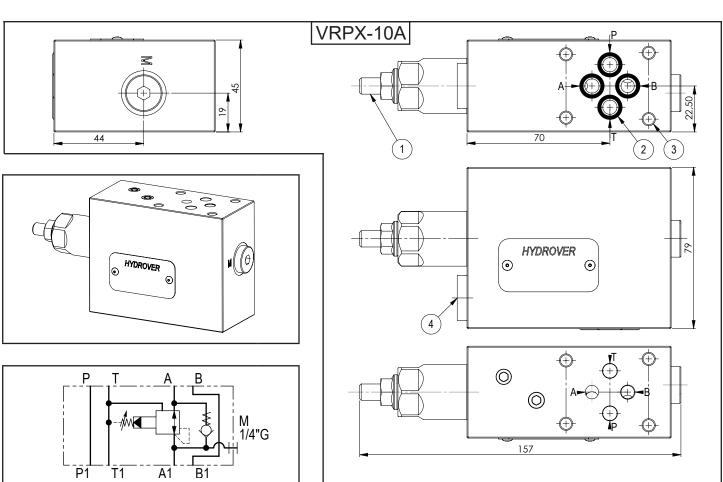
N°	Description	Q.ty
1	Ø 5,5 through hole for mounting	4
2	OR 108 i. Ø 8,73 cross section 1,78	4
3	Bosch Rexroth reducing valve VRPR-10A o VRPX-10A * depicted with screw adjustment	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

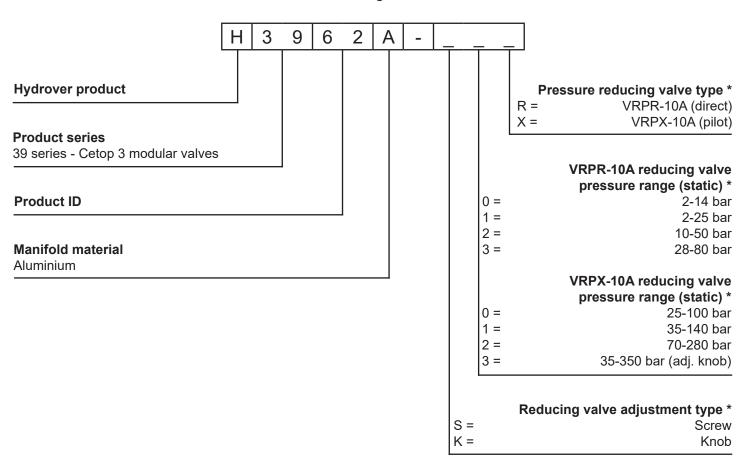
Technical data		
Max. pressure	250 bar	
Max. flow with VRPR-10A	25 lpm *	
Max. flow with VRPX-10A	55 lpm *	
Weight	1,1 Kg	
Manifold material	Aluminium	

Cetop 3 modular pressure reducing valve on A





Ordering code



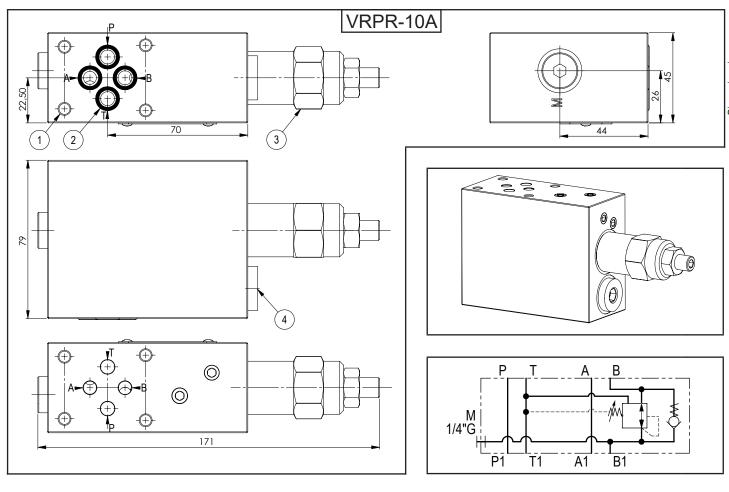
^{*} Omit if not required. To order the product without the pressure reducing cartridge valve, omit the valve adjustment type, valve pressure range and valve type options: H3962A.

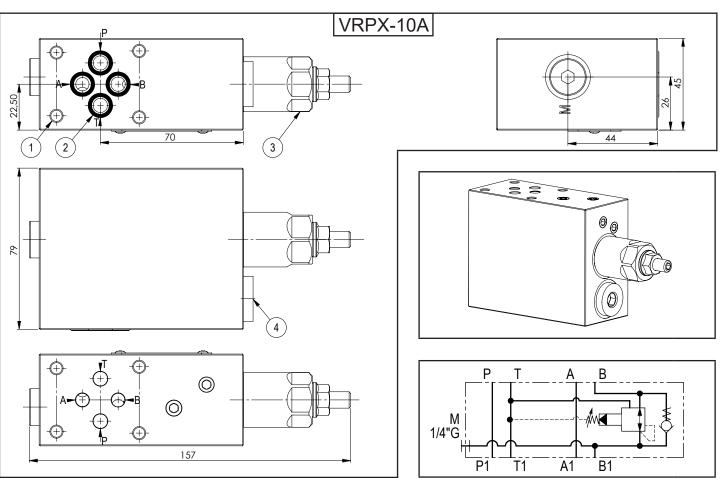
N°	Description	Q.ty
1	Bosch Rexroth reducing valve VRPR-10A o VRPX-10A * depicted with screw adjustment	1
2	OR 108 i. Ø 8,73 cross section 1,78	4
3	Ø 5,5 through hole for mounting	4
4	Check valve VUH1 3/8" G under 3/8" G plug	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

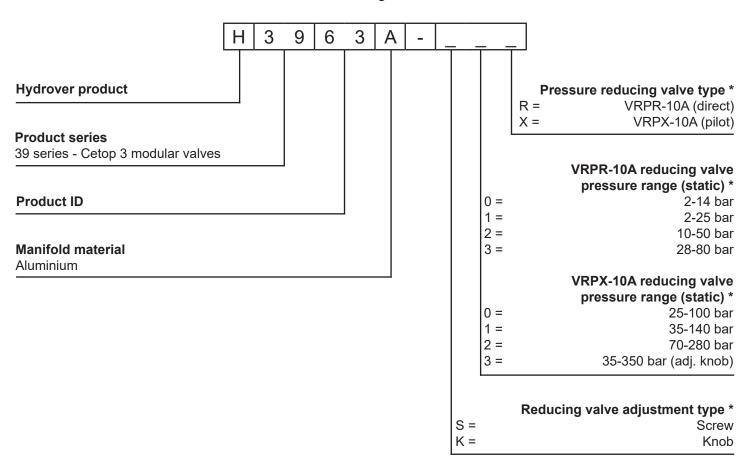
Technical data		
Max. pressure	250 bar	
Max. flow with VRPR-10A	25 lpm *	
Max. flow with VRPX-10A	55 lpm *	
Weight	1,1 Kg	
Manifold material	Aluminium	

Cetop 3 modular pressure reducing valve on B





Ordering code



^{*} Omit if not required. To order the product without the pressure reducing cartridge valve, the valve adjustment type, valve pressure range and valve type options: H3963A.

The manifold will still be provided with the corrisponding cavity.

N°	Description	Q.ty
1	Bosch Rexroth reducing valve VRPR-10A o VRPX-10A * depicted with screw adjustment	1
2	OR 108 i. Ø 8,73 cross section 1,78	4
3	Ø 5,5 through hole for mounting	4
4	Check valve VUH1 3/8" G under 3/8" G plug	1

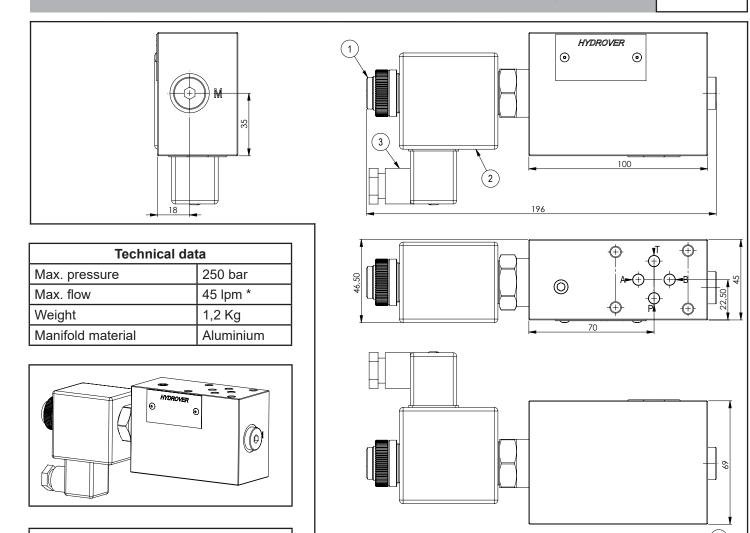
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

Technical data		
Max. pressure	250 bar	
Max. flow with VRPR-10A	25 lpm *	
Max. flow with VRPX-10A	55 lpm *	
Weight	1,1 Kg	
Manifold material	Aluminium	

M ⊦ 1/4" G

Cetop 3 modular proportional pressure reducing valve on P

H3942



N°	Description	Q.ty
1	Bosch Rexroth proportional solenoid valve VEP-5A-2R-06-P / OD.91.06.77-Y-00 *	1
2	Bosch Rexroth coil S5-356 - CLASS H DIN 43650 ISO 4400 *	1
3	Connector DIN 43650 ISO 4400	1
4	Ø 5,5 through hole for mounting	4
5	OR 108 i. Ø 8.73 cross section 1.78	4

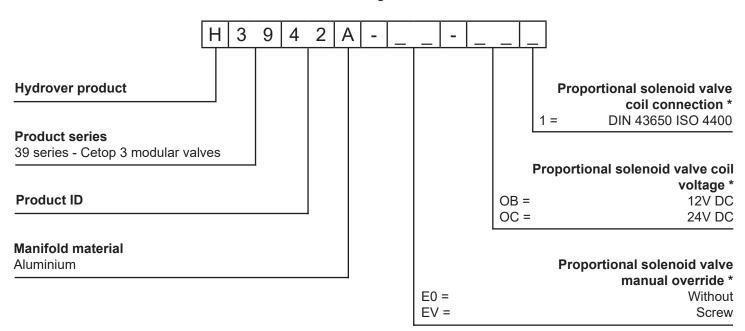
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

A1 B1



39 SERIES **H3942**

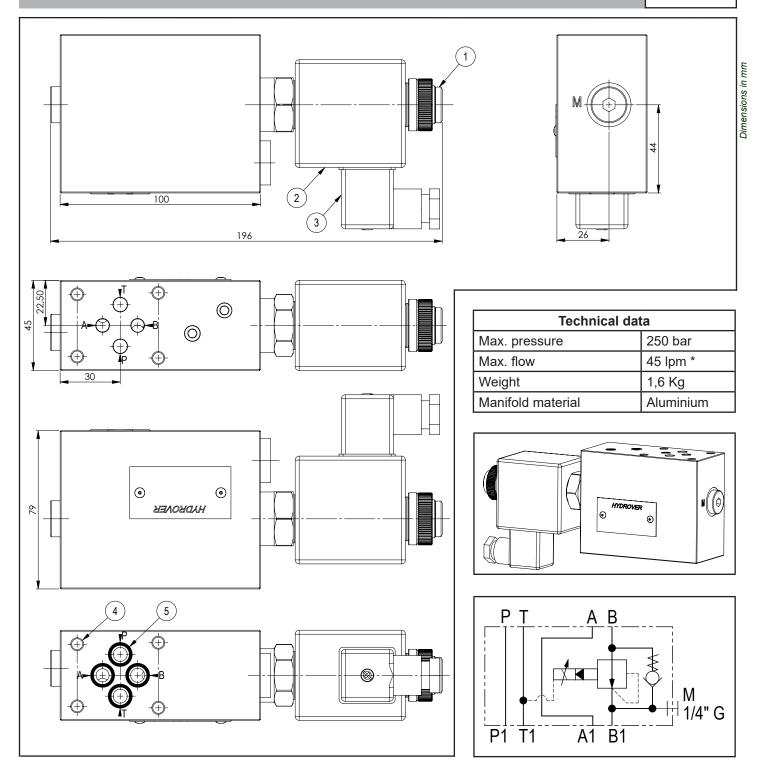
Ordering code



^{*} Omit if not required. To order the product without the proportional solenoid cartridge valve, omit the manual override, coil voltage and coil connection options: H3942A.



Cetop 3 modular proportional pressure reducing valve on B



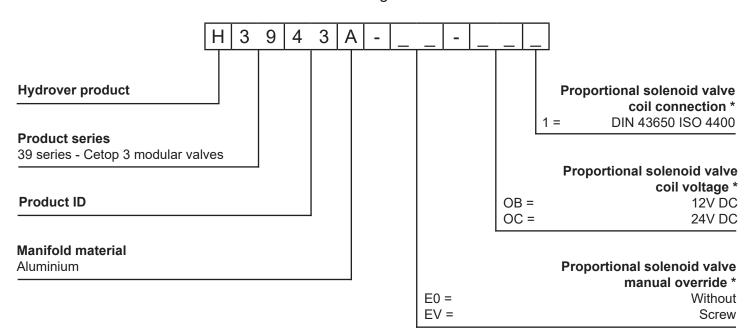
N°	Description	Q.ty
1	Bosch Rexroth proportional solenoid valve VEP-5A-2R-06-P / OD.91.06.77-Y-00 *	1
2	Bosch Rexroth coil S5-356 - CLASS H DIN 43650 ISO 4400 *	1
3	Connector DIN 43650 ISO 4400	1
4	Ø 5,5 through hole for mounting	4
5	OR 108 i. Ø 8,73 cross section 1,78	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



39 SERIES **H3943**

Ordering code

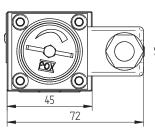


^{*} Omit if not required. To order the product without the proportional solenoid cartridge valve, omit the manual override, coil voltage and coil connection options: H3943A.



Cetop 3 modular valve for pressure switch on A / B / A and B

H3916

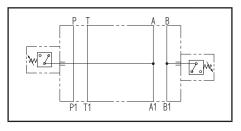


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- 1	_	-1

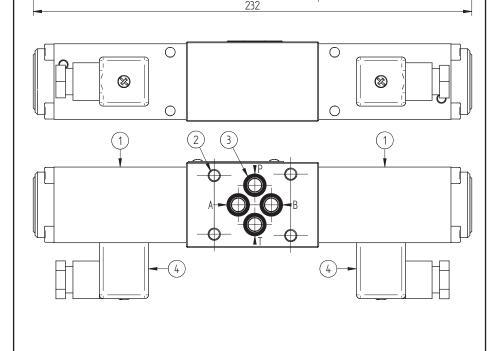
	HYDROVER	
	0 0	
75		
	70	

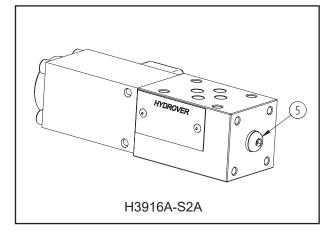
Technical data		
Max. pressure	250 bar	
Manifold material	Aluminium	
Weight 1 pressure switch	0,7 Kg	
Weight 2 pressure switch	1,05 Kg	

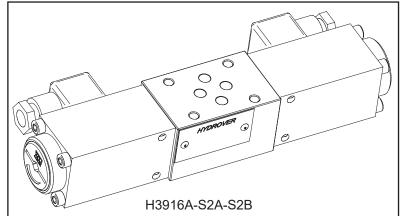
HYDROVER



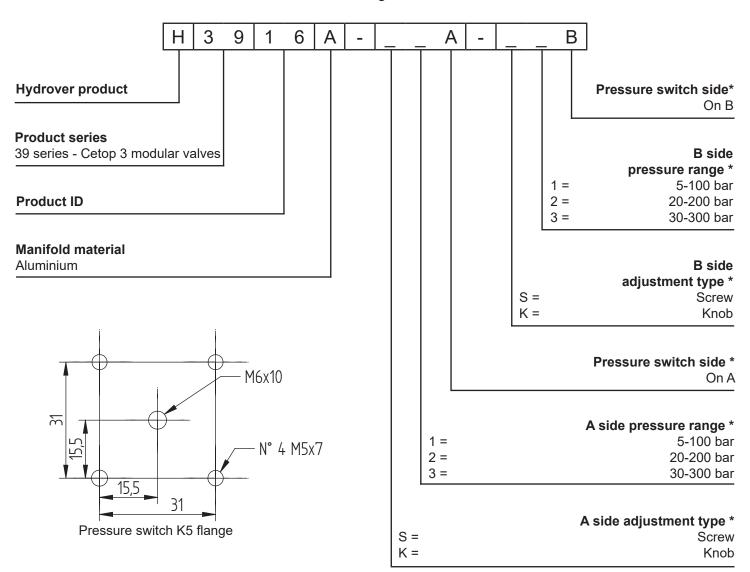
N°	Description	Q.ty
1	Pressure switch FOX K5	1/2
2	Ø 5,5 through hole for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	4
4	Connector DIN 43650 ISO 4400	1/2
5	M6 plug with bonded washer for configurations with 1 pressure switch.	1







Ordering code



* Omit if not required. For example to order the product with the pressure switch only on A, omit the adjustment type, pressure range and pressure switch B side options: H3916A-K2A.

"K5" adjustable pressure switches activate a microswitch once preset value is reached. The pressure is set by rotating a graduated knob or, for the economical version, by a setscrew located on top of the unit. Both systems are supplied with a device permits locking the desired set pressure. Mechanical stops protect both the spring and the microswitch from over pressurization.

Technical Features:

Body: square 40x40mm in anodized aluminium

Assembly: in every position with 1/4"BSPF threaded port or Cetop flanged without needs adaptors

Working temperature: from - 20°C to + 80°C

Switching frequency: 120 cycles/min

Switching accuracy: ±2% of the end of scale to 20°C Fixed hysteresis value: ~ 15% of the end of scale at 20°C

Mechanical life: 106 cycles at 70 bar at 20°C

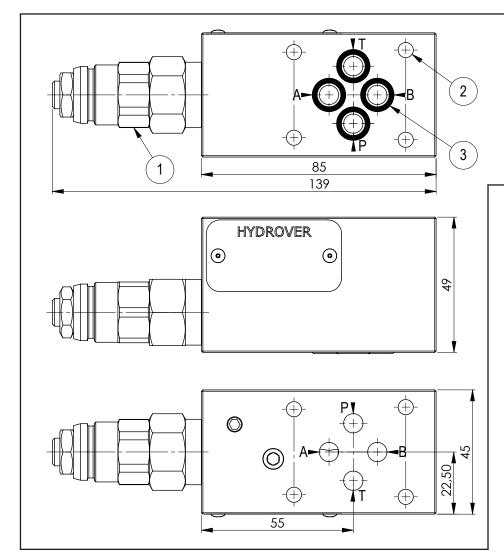
Maximum load: 5 Ampère at 250 Volt AC 0.25 Ampère at 250 Volt DC

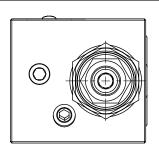
Exchange contact NO and NC

Electric connection according to DIN 43650

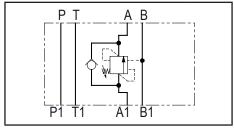
For more informations www.fox.it

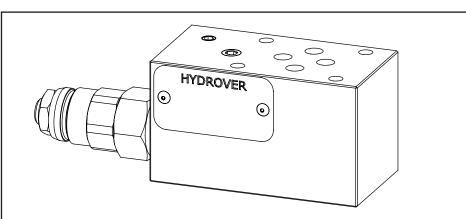
Cetop 3 modular counterbalance valve on A / 25 lpm





Technical data		
Max. pressure	Aluminium 250 bar Steel 350 bar	
Max. flow	25 lpm *	
Pilot ratio	4:1	
Weight	Aluminium: 0,7 Kg Steel: 1,5 Kg	
Manifold material	Steel o Aluminium	





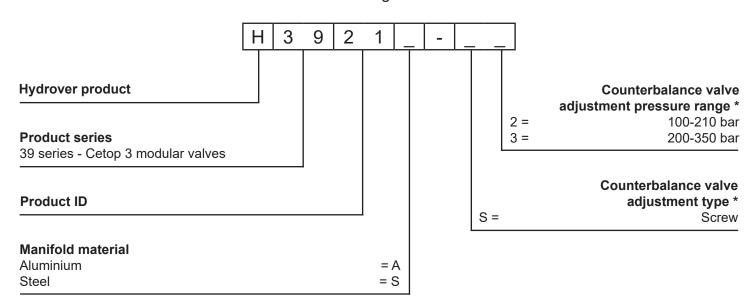
N°	Description	Q.ty
1	Bosch Rexroth counterbalance valve VBSN-08AA *	1
2	Ø 5,5 through hole for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	4

* for complete technical information, click on the blue link or go to the components section at the end of the catalogue



39 SERIES **H3921**

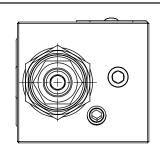
Ordering code



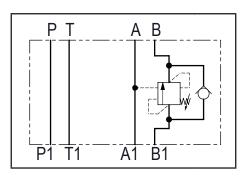
^{*} Omit if not required. To order the product without the counterbalance cartridge valve, omit the adjustment type and pressure range options: H3921A.



Cetop 3 modular counterbalance valve on B / 25 lpm

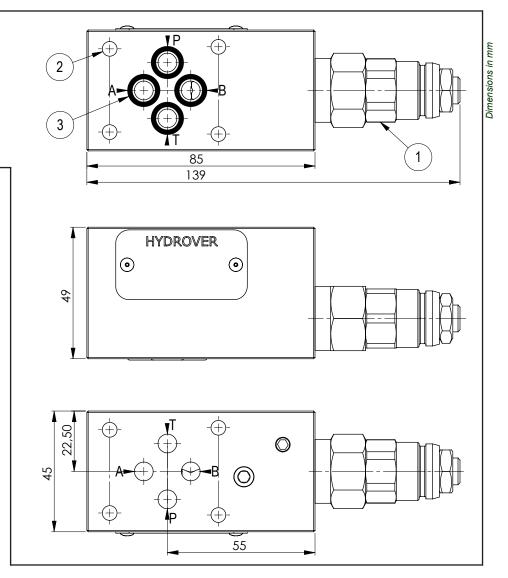


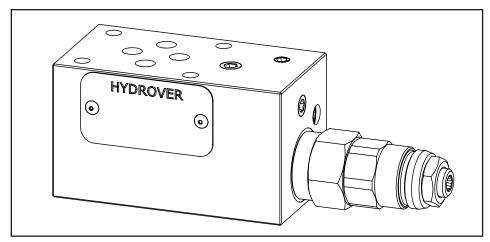
Technical data		
Max. pressure	Aluminium 250 bar Steel 350 bar	
Max. flow	25 lpm *	
Pilot ratio	4:1	
Weight	Aluminium: 0,7 Kg Steel: 1,5 Kg	
Manifold material	Steel o Aluminium	



N°	Description	Q.ty
1	Bosch Rexroth counterbalance valve VBSN-08AA *	1
2	Ø 5,5 through hole for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

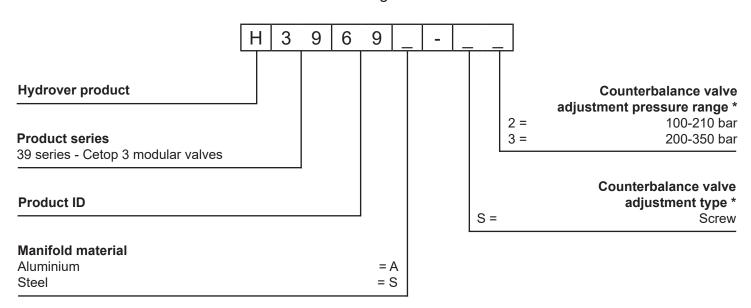






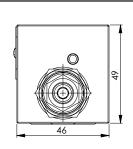
39 SERIES **H3969**

Ordering code

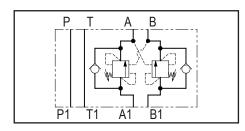


^{*} Omit if not required. To order the product without the counterbalance cartridge valve, omit the adjustment type and pressure range options: H3969A.

Cetop 3 modular counterbalance valve on A and B / 25 lpm

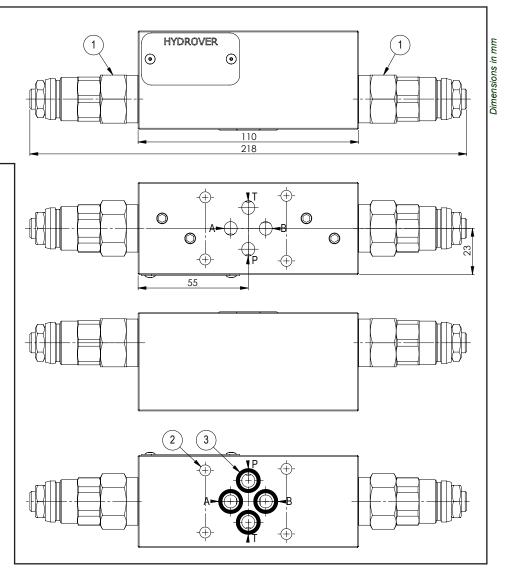


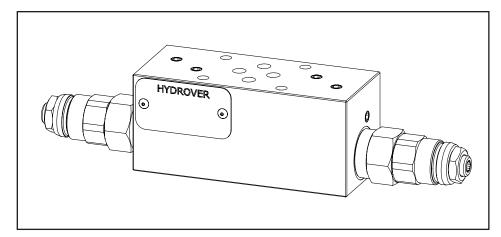
Technical data		
Max. pressure	Aluminium 250 bar Steel 350 bar	
Max. flow	25 lpm *	
Pilot ratio	4:1	
Weight	Aluminium: 1 Kg Steel: 2,1 Kg	
Manifold material	Steel o Aluminium	



N°	Description	Q.ty
1	Bosch Rexroth counterbalance valve VBSN-08AA *	2
2	Ø 5,5 through hole for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

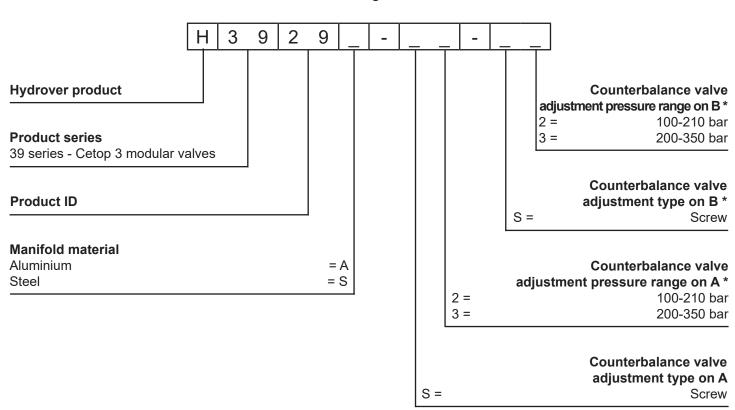






39 SERIES **H3929**

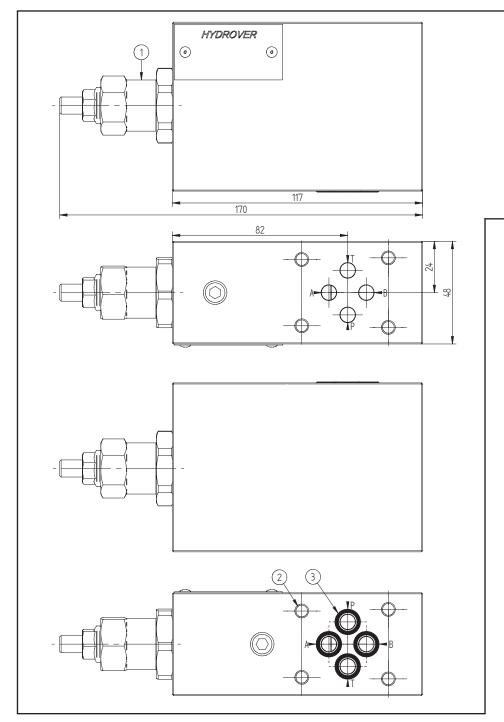
Ordering code

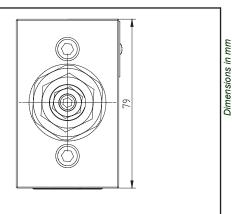


^{*} Omit if not required. To order the product without the counterbalance cartridge valves, omit the adjustment type and pressure range options on A e B: H3929A.

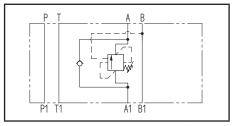
Cetop 3 modular counterbalance valve on A / 45 lpm

H3925



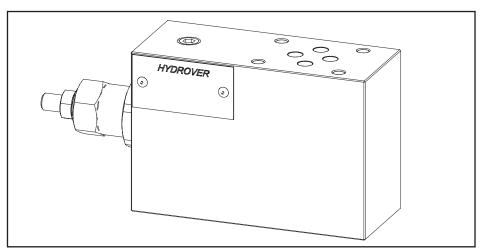


Technical data		
Max. pressure	250 bar	
Max. flow	45 lpm *	
Pilot ratio	4.2:1	
Weight	1,5 Kg	
Manifold material	Aluminium	



N°	Description	Q.ty
1	Bosch Rexroth counterbalance valve VBSO-SEC-30 *	1
2	Ø 5,5 through hole for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	4

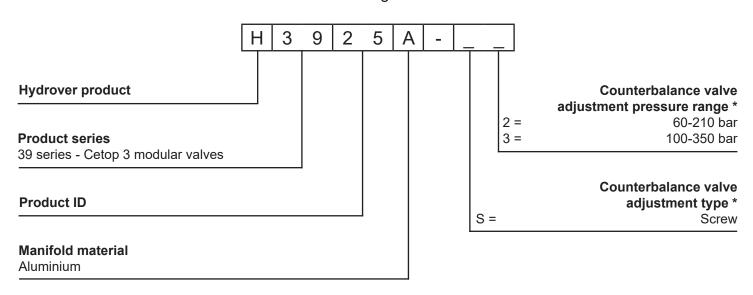
* for complete technical information, click on the blue link or go to the components section at the end of the catalogue





39 SERIES **H3925**

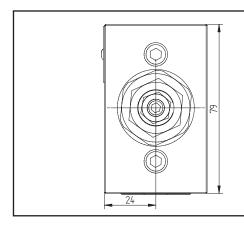
Ordering code



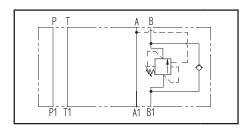
^{*} Omit if not required. To order the product without the counterbalance cartridge valve, omit the adjustment type and pressure range options: H3925A.



Cetop 3 modular counterbalance valve on B / 45 lpm

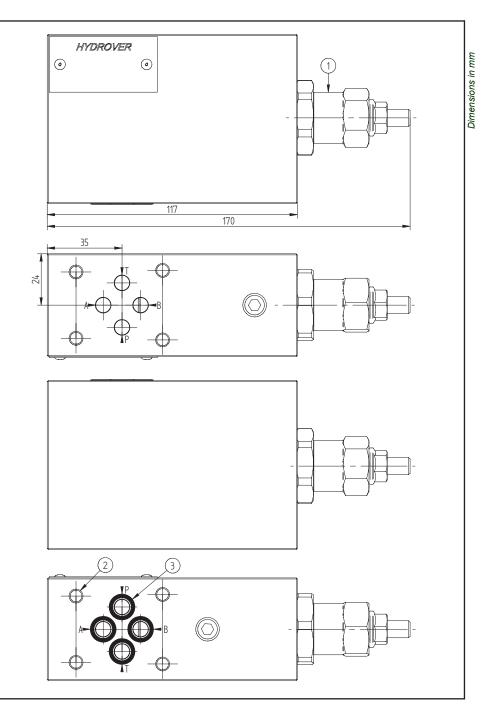


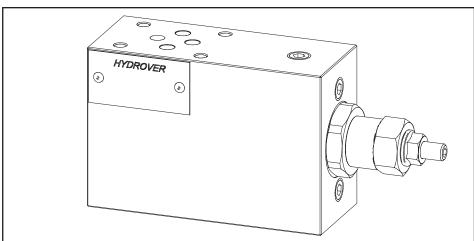
Technical data		
Max. pressure	250 bar	
Max. flow	45 lpm *	
Pilot ratio	4.2:1	
Weight	1,5 Kg	
Manifold material	Aluminium	



N°	Description	Q.ty
1	Bosch Rexroth counterbalance valve VBSO-SEC-30 *	1
2	Ø 5,5 through hole for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

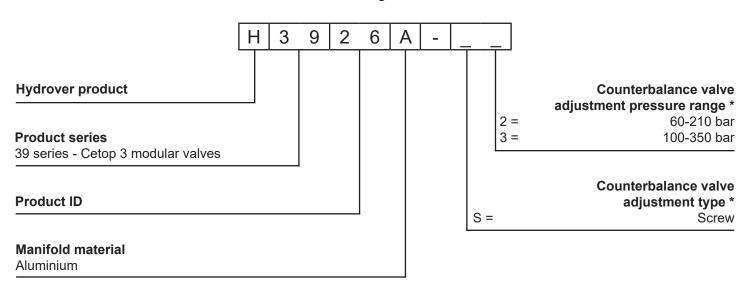






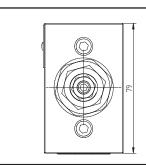
39 SERIES **H3926**

Ordering code

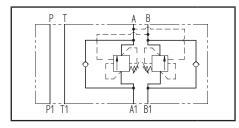


^{*} Omit if not required. To order the product without the counterbalance cartridge valve, omit the adjustment type and pressure range options: H3926A.

Cetop 3 modular counterbalance valve on A and B / 45 lpm

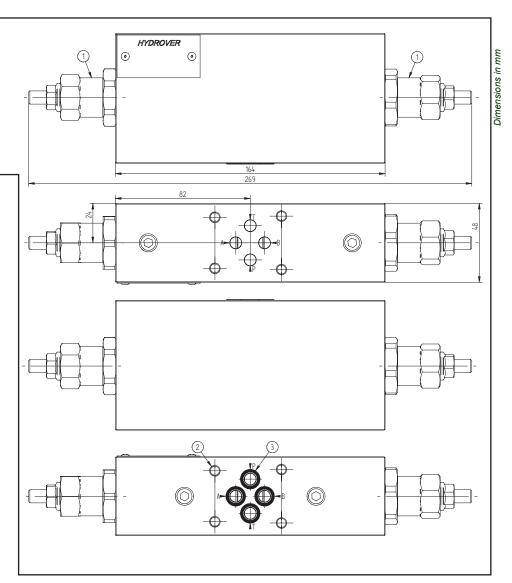


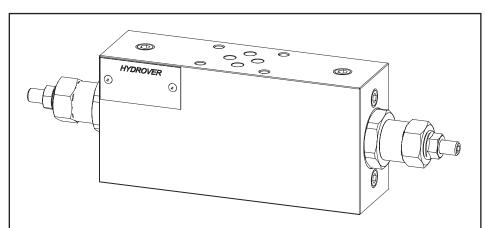
Technical data	
Max. pressure	250 bar
Max. flow	45 lpm *
Pilot ratio	4.2:1
Weight	2 Kg
Manifold material	Aluminium



N°	Description	Q.ty
1	Bosch Rexroth counterbalance valve VBSO-SEC-30 *	2
2	Ø 5,5 through hole for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

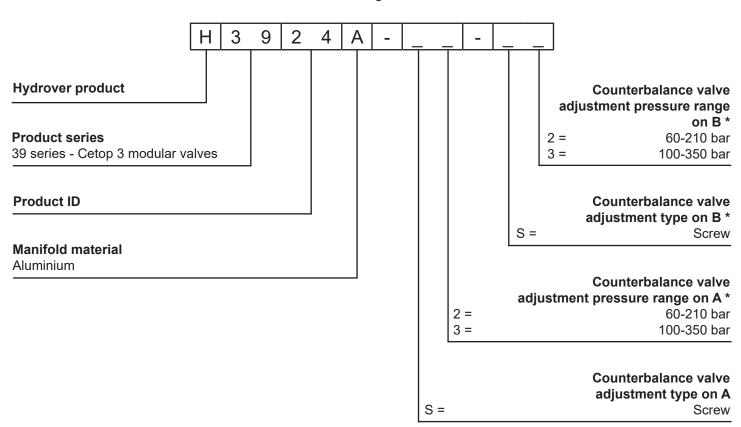






39 SERIES **H3924**

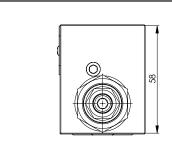
Ordering code



^{*} Omit if not required. To order the product without the counterbalance cartridge valves, omit the adjustment type and pressure range options on A e B: H3924A.

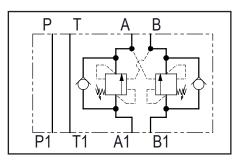
Cetop 3 modular counterbalance valve on A and B / 60 lpm

H3984



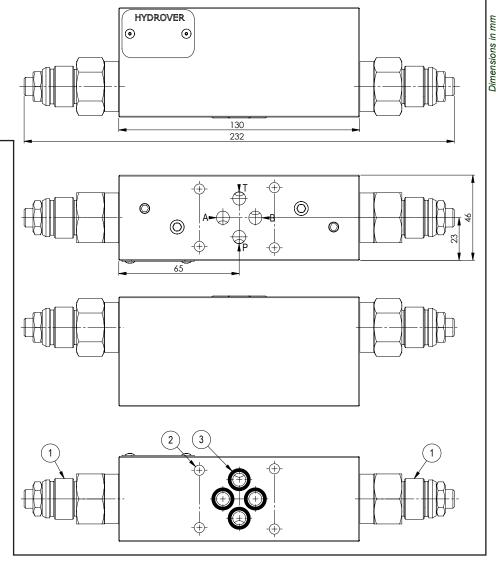
HYDROVER

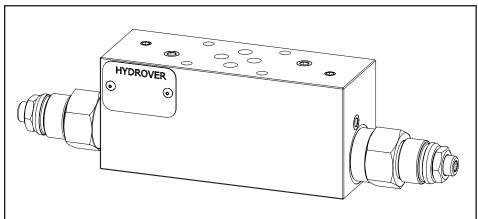
Technical data		
Max. pressure	350 bar	
Max. flow	60 lpm *	
Weight	2,8 Kg	
Manifold material	Steel	



N°	Description	Q.ty
1	Bosch Rexroth counterbalance valve VBSN-10A *	2
2	Ø 5,5 through hole for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

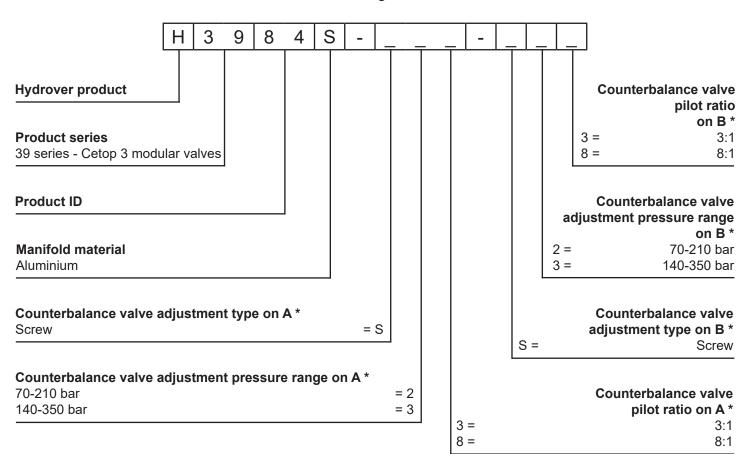






39 SERIES **H3984**

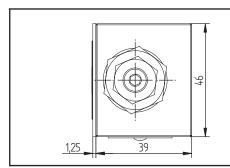
Ordering code



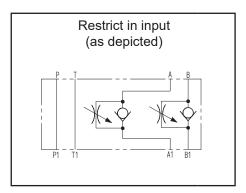
^{*} Omit if not required. To order the product without the counterbalance cartridge valves, omit the adjustment type, pressure range and pilot ratio options: H3984A.

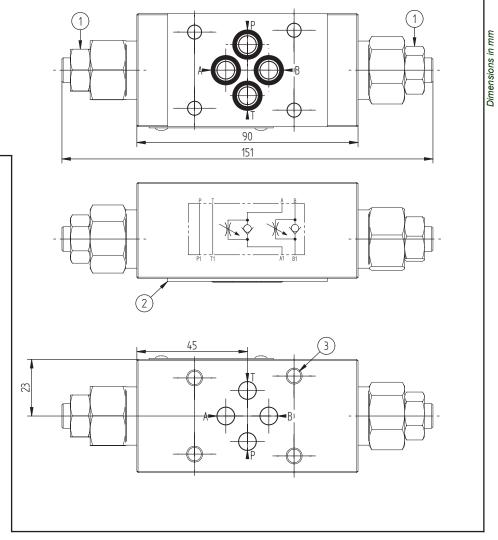


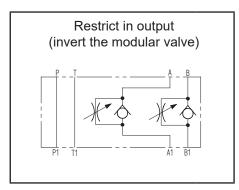
Cetop 3 modular valve with unidirectional flow restrictors on A / B / A and B

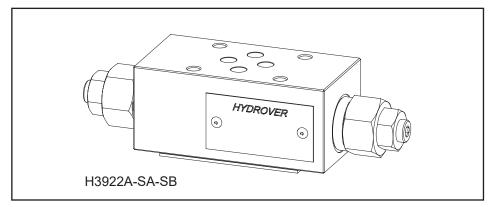


Technical data		
Max. pressure	Aluminium:250 bar Steel: 350 bar	
Max. flow	40 lpm *	
Weight with 1 valve	Aluminium: 0,7 Kg Steel: 1,4 Kg	
Weight with 2 valves	Aluminium: 0,8 Kg Steel: 1,5 Kg	
Manifold material	Aluminium o Steel	









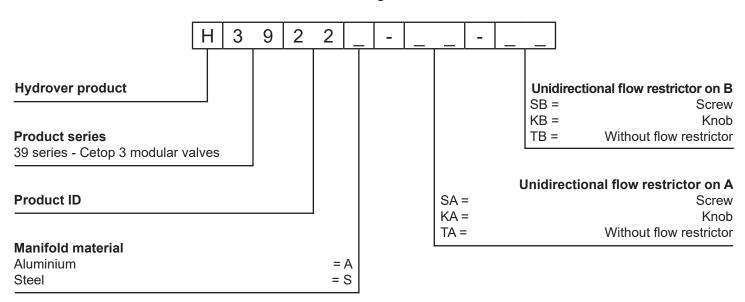
N°	Description	Q.ty
1	Bosch Rexroth unidirectional flow restrictor STVU-08A * depicted with screw adjustment	1/2
2	Seal plate	4
3	Ø 5,5 through hole for mounting	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



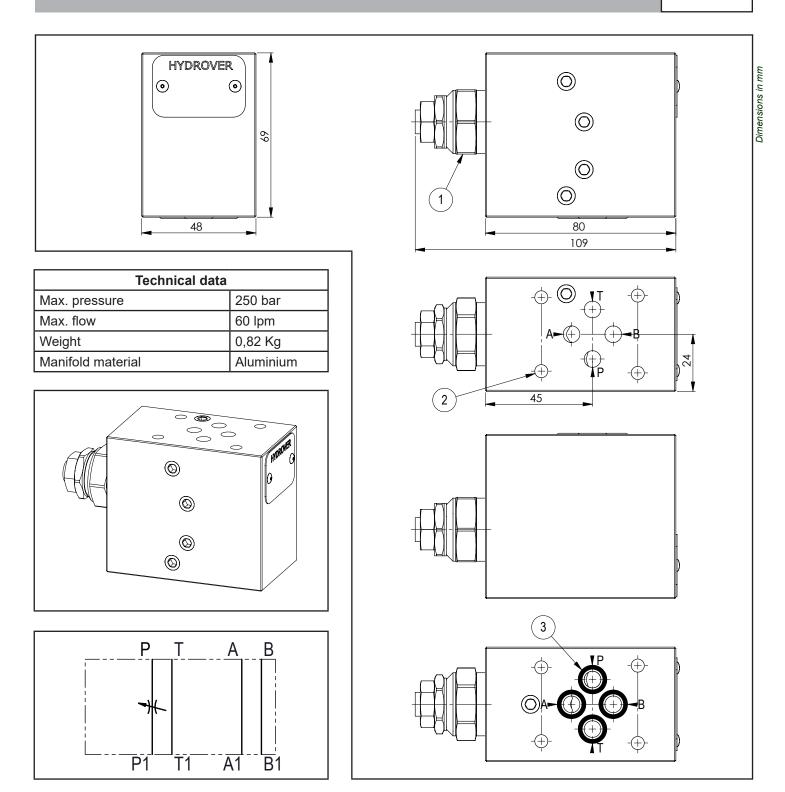
39 SERIES **H3922**

Ordering code



To inhibit one of the flow restrictors, substitute the related options with T: eg. H3922A-TA-SB. In the cavity it will be mounted a short plug.		
Valve Cavity Short plug code		
Bosch Rexroth unidirectional flow restrictor STVU-08A	CA-08A-2N	R-800-008

Cetop 3 modular valve with bidirectional flow restrictor on P



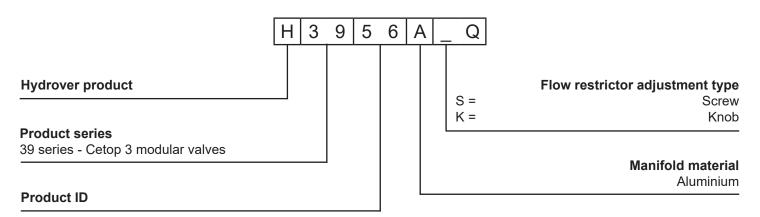
N°	Description	Q.ty
1	Bosch Rexroth bidirectional flow restrictor OD.21.01-X-36 * depicted with screw adjustment.	1
2	Ø 5,5 through hole for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



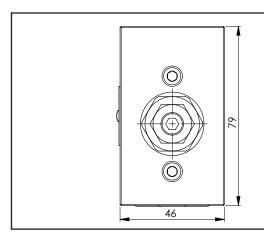
39 SERIES **H3956**

Ordering code

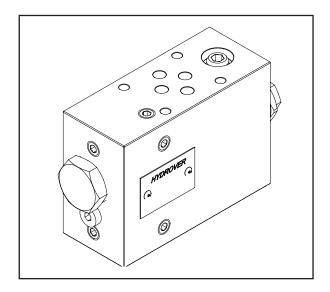


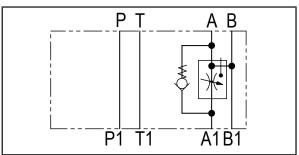


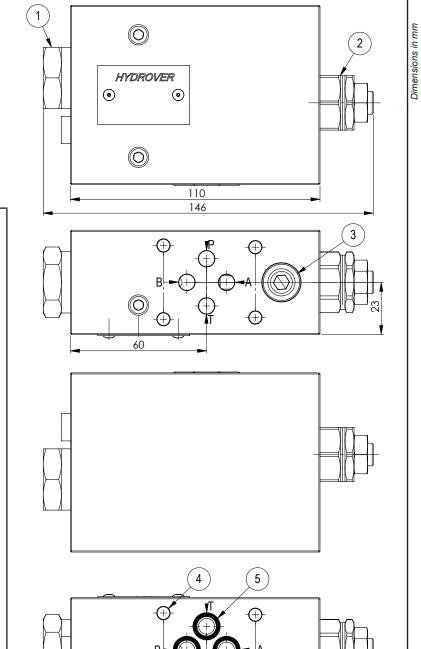
Cetop 3 modular 3 way compensated flow regulator valve on A



Technical data		
Max. pressure	250 bar	
Max. flow	30 lpm	
Weight	1,3 Kg	
Manifold material	Aluminium	







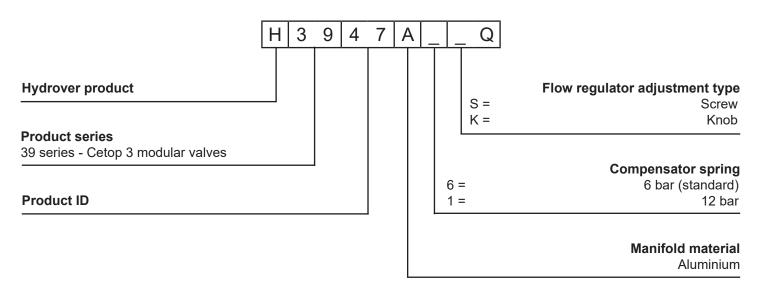
N°	Description	Q.ty
1	Pressure compensator	1
2	Bosch Rexroth bidirectional flow restrictor OD.21.01-X-56 * depicted with screw adjustment.	1
3	Check valve	4
4	Ø 5,5 through hole for mounting	4
5	OR 108 i. Ø 8,73 cross section 1,78	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



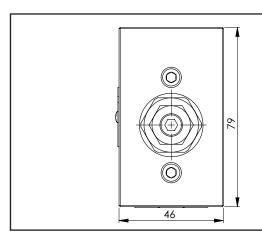
39 SERIES **H3947**

Ordering code

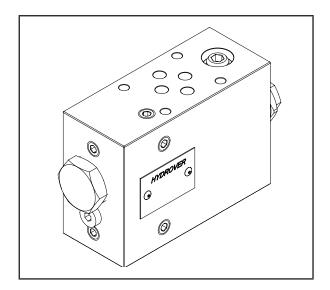


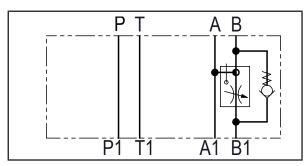


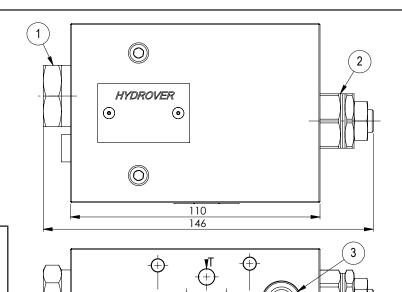
Cetop 3 modular 3 way compensated flow regulator valve on B

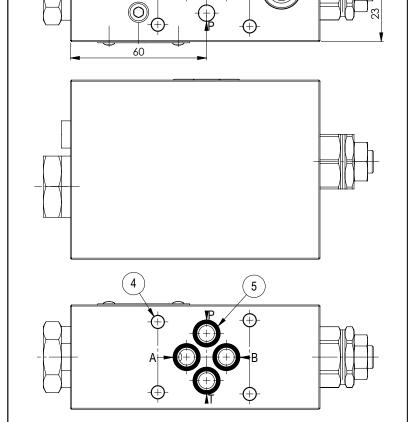


Technical data		
Max. pressure	250 bar	
Max. flow	30 lpm	
Weight	1,3 Kg	
Manifold material	Aluminium	









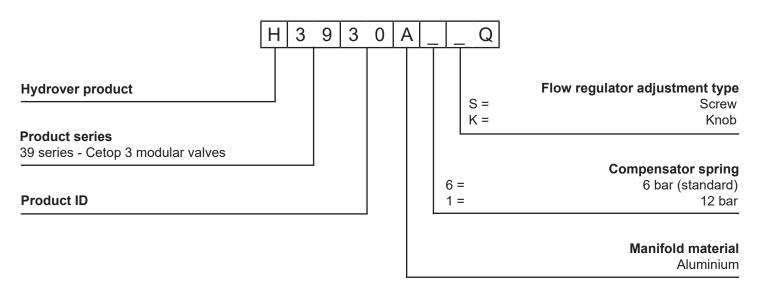
N°	Description	Q.ty
1	Pressure compensator	1
2	Bosch Rexroth bidirectional flow restrictor OD.21.01-X-56 * depicted with screw adjustment	1
3	Bosch Rexroth check valve	4
4	Ø 5,5 through hole for mounting	4
5	OR 108 i. Ø 8,73 cross section 1,78	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



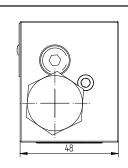
Cetop 3 modular valves 39 SERIES

39 SERIES **H3930**

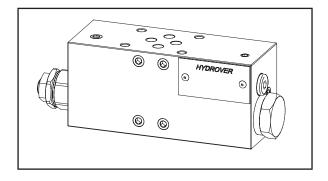


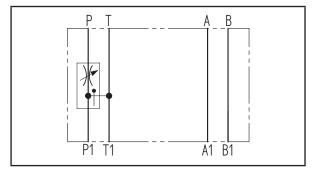


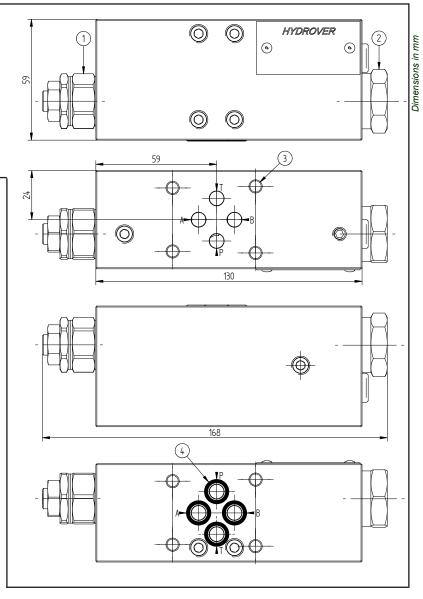
Cetop 3 modular 3 way compensated flow regulator valve on P



Technical data		
Max. flow	30 lpm	
With Aluminium manifold		
Max. pressure	250 bar	
Weight	1,2 Kg	
With steel manifold		
Max. pressure	350 bar	
Weight	2,8 Kg	





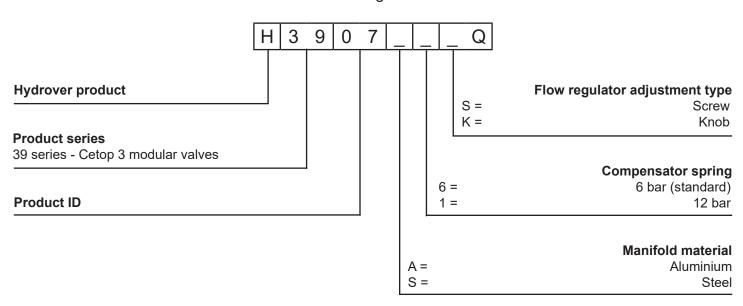


N°	Description	Q.ty
1	Bosch Rexroth bidirectional flow restrictor OD.21.01-X-56 * depicted with screw adjustment	1
2	Pressure compensator	1
3	Ø 5,5 through hole for mounting	4
4	OR 108 i. Ø 8,73 cross section 1,78	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue





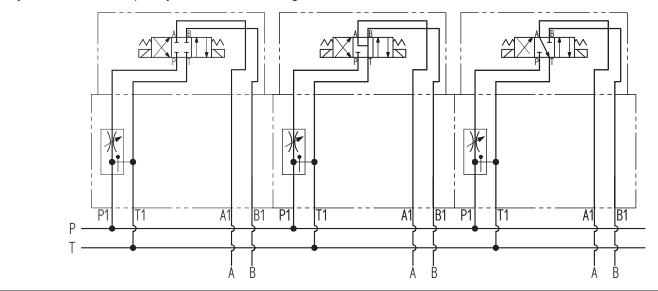


Notes:

With the 3 way compensated flow regulation it's possible to work to the load pressure plus 4/12 bar (compensator spring) rather than at the maximum pressure valve setting as with the 2 way type.

You can use several modular 3 way compensated flow regulation valves in parallel (see example), but:

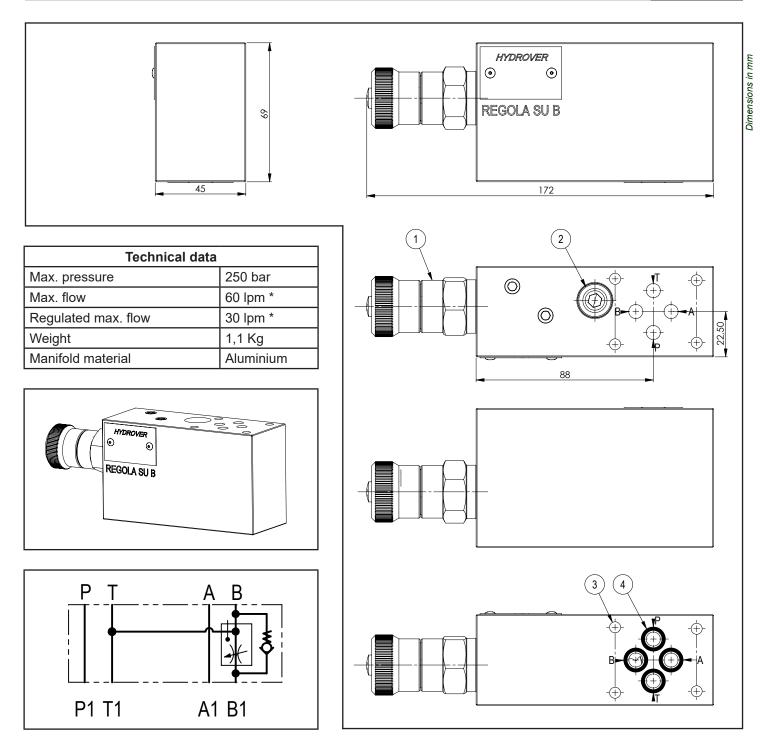
- the solenoid valves must have the P closed
- · you can't do simultaneous actions
- · you can't close completely one or more flow regulators



HYDROUER

Cetop 3 modular 3 way compensated priority flow regulator valve on B





N°	Description	Q.ty
1	Bosch Rexroth 3 way compensated flow regulator 04.04.02.40.85.40 - VRFD-10A-M-40*	1
2	Bosch Rexroth check valve	1
3	Ø 5,5 through hole for mounting	4
4	OR 108 i. Ø 8,73 cross section 1,78	4

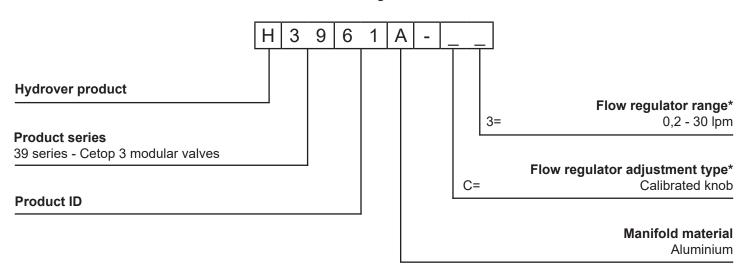
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Cetop 3 modular valves 39 SERIES

39 SERIES **H3961**

Ordering code

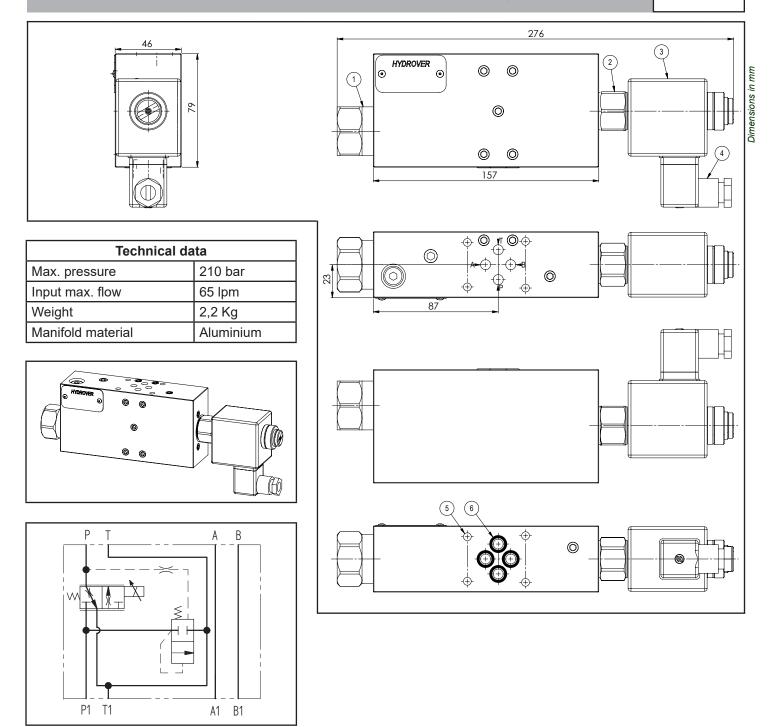


Product available on request also on P or A.

The manifold will still be provided with the corrisponding cavity.

^{*} Omit if not required. To order the product without the flow regulator cartridge valve, omit the flow regulator adjustment type and flow range options: H3961A.

Cetop 3 modular 3 way compensated proportional flow regulator valve on P



N°	Description	Q.ty
1	Pressure compensator	1
2	Bosch Rexroth proportional solenoid valve VEP-5A-2Q-09 / OD.92.05.77-Y-Z *	1
3	Bosch Rexroth coil S5-356 - CLASS H DIN 43650 ISO 4400 *	1
4	Connector DIN 43650 ISO 4400	1
5	Ø 5,5 through hole for mounting	4
6	OR 108 i. Ø 8,73 cross section 1,78	4

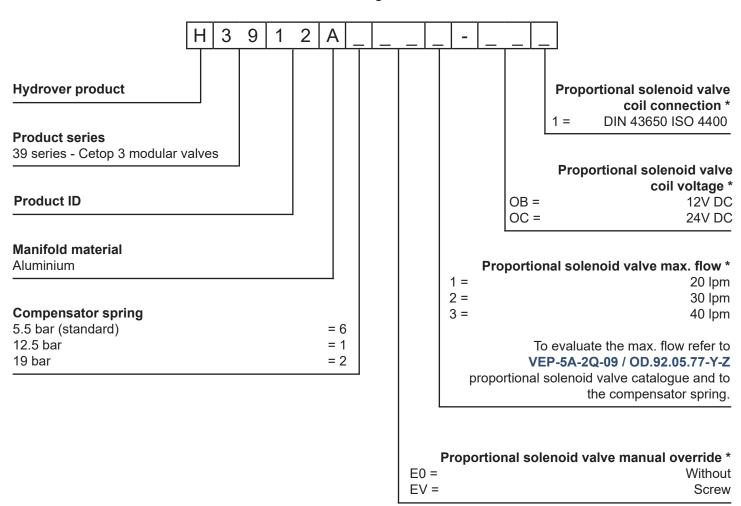
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Cetop 3 modular valves 39 SERIES

39 SERIES **H3912**

Ordering code



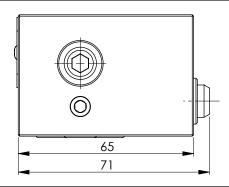
^{*} Omit if not required. For example, to order the product without the proportional solenoid cartridge valve, omit the coil connection, coil voltage, max. flow and manual override options: H3912A6.

The manifold will still be provided with the corrisponding cavity.



Cetop 3 modular bridge of wheatstone rectifier for 2 way flow regulator

H3991

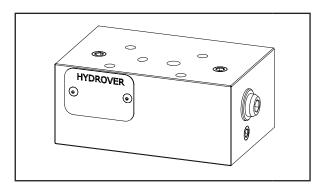


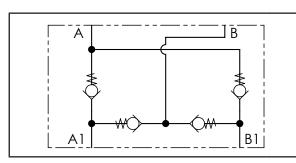
Please note that the standard width of a Cetop 3 modular valve is 45 mm.

This one is 71 mm.

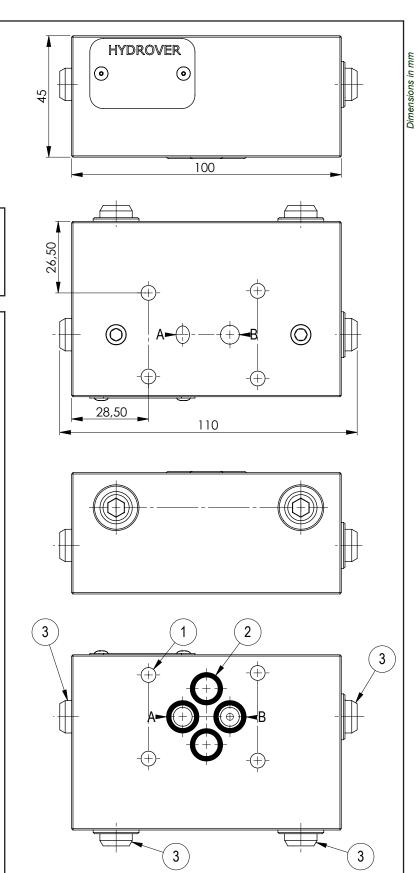
Consequently, the potential station on the check valve side must be empty.

Technical data	
Max. pressure	250 bar
Max. flow	15 lt/1
Weight	0,9 Kg
Manifold material	Aluminium





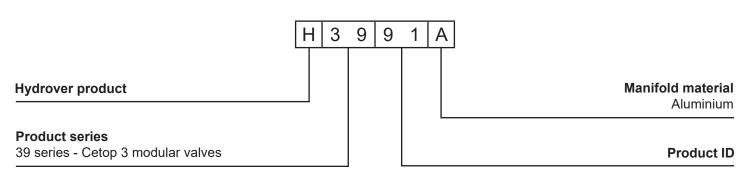
N°	Description	Q.ty
1	Ø 5,5 through hole for mounting	4
2	OR 108 i. Ø 8,73 cross section 1,78	4
3	Bosch Rexroth check valve	4





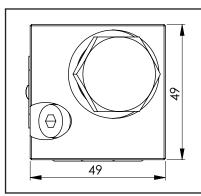
Cetop 3 modular valves 39 SERIES

39 SERIES **H3910**

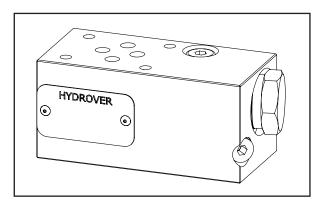


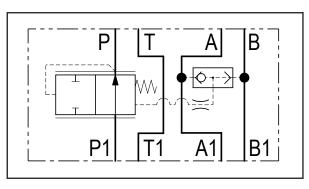


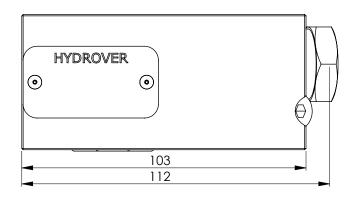
Cetop 3 modular valve with 2 way pressure compensator normally open on P H39109

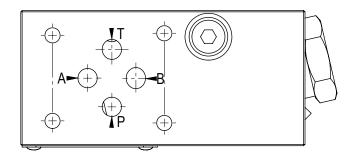


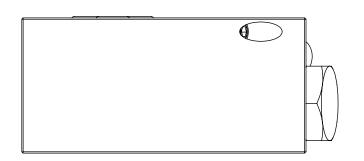
Technical data		
Max. pressure	Aluminium:	250 bar
	Steel:	350 bar
Max. flow	40 lpm	
Weight	Aluminium:	0,72 Kg
	Steel:	1,75 Kg
Manifold material	Aluminium or steel	

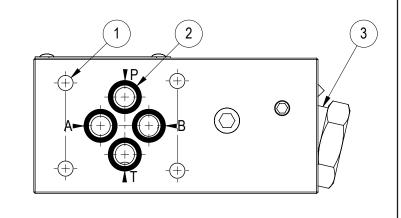










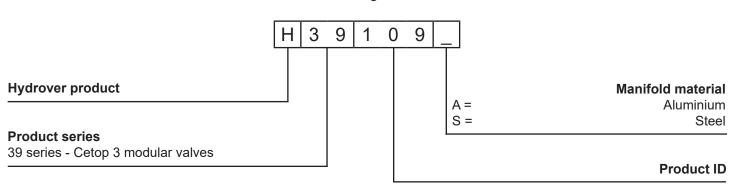


N°	Description	Q.ty
1	Foro passante Ø 5,5 per fissaggio	4
2	Ø 5,5 through hole for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	1



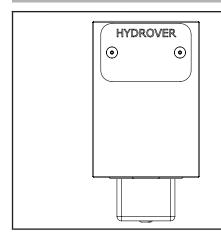
Cetop 3 modular valves 39 SERIES

39 SERIES **H39109**

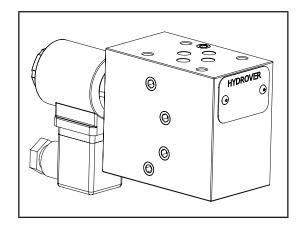


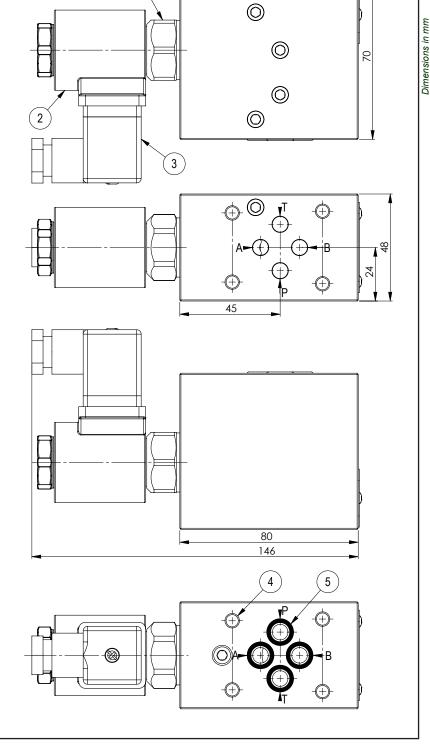
Cetop 3 modular poppet type solenoid operated directional valve between P1 and P / 60 lpm





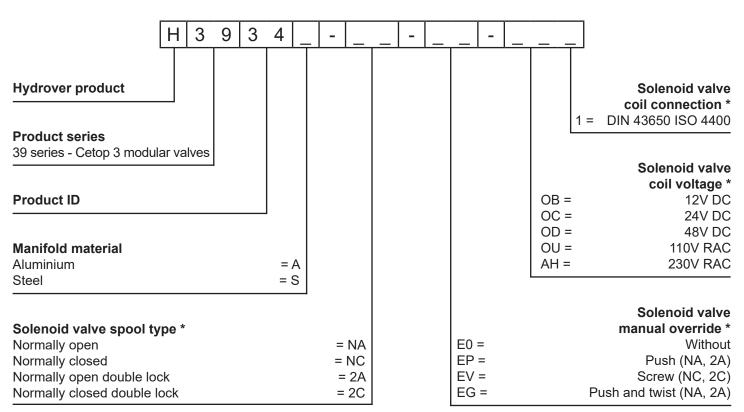
Technical data		
Max. flow	60 lpm *	
With Aluminium manifold		
Max. pressure	250 bar	
Weight	1,1 Kg	
With steel manifold		
Max. pressure	350 bar	
Weight	2,2 Kg	



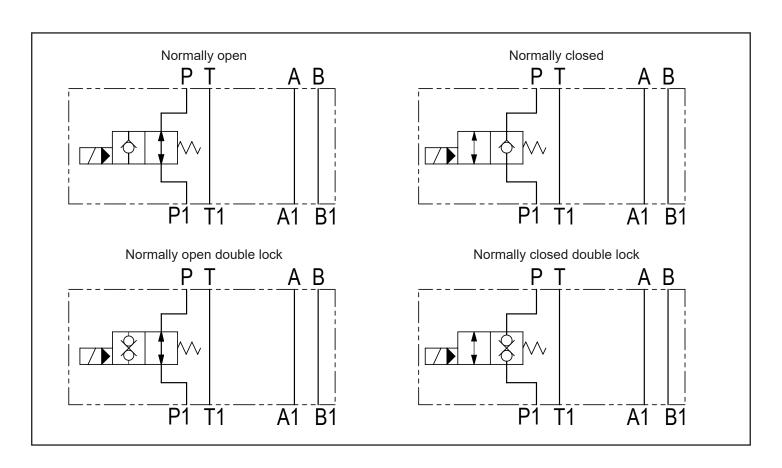


N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-10A-NC OD.15-X-36-Y-000000 (normally closed) or VEI-16-10A-NA OD.15-X-36-Y-000000 (normally open) depicted without manual override *	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
3	Connector DIN 43650 ISO 4400	1
4	Ø 5,5 through hole for mounting	4
5	OR 108 i. Ø 8,73 cross section 1,78	4

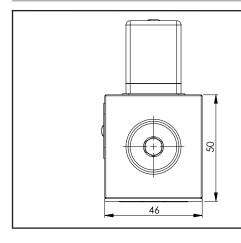
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



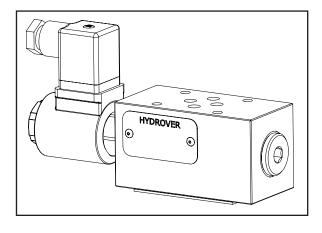
^{*} Omit if not required. For example, to order the product without coil, omit the solenoid valve coil connection and coil voltage options: H3934A-NC-E0.

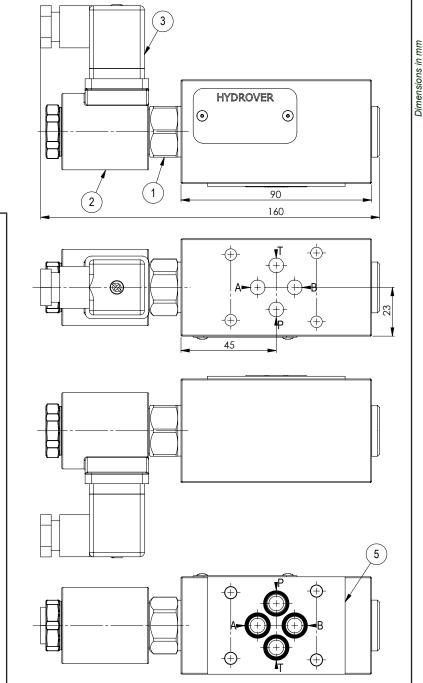


Cetop 3 modular poppet type solenoid operated directional valve between A1 and A / 40 lpm



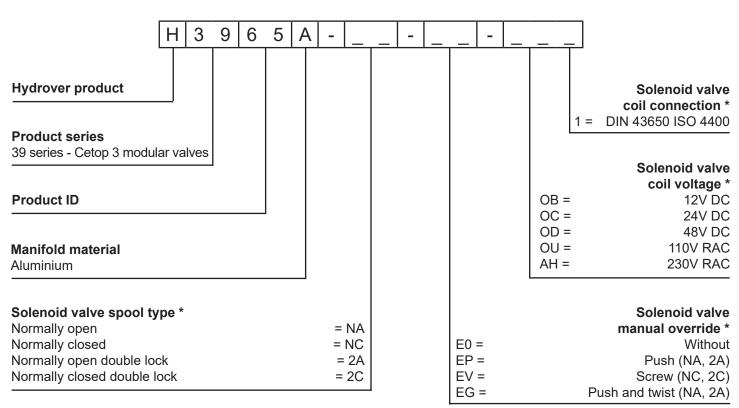
Technical data	
Max. pressure	250 bar
Max. flow	40 lpm *
Weight	1 Kg
Manifold material	Aluminium



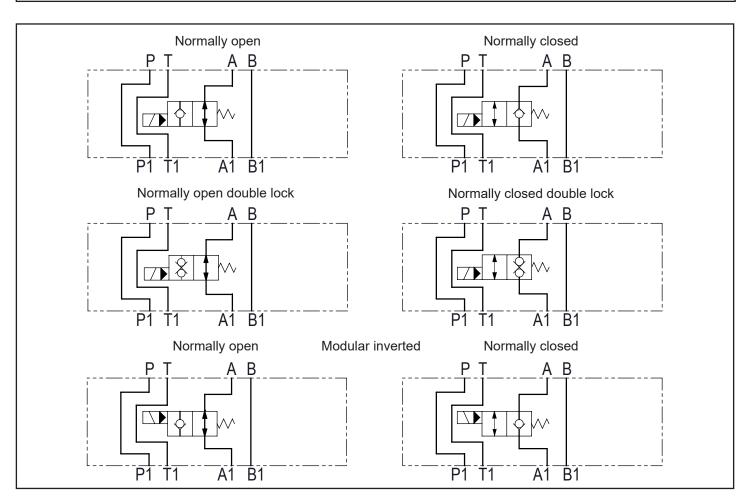


N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-08A-NC OD.15-X-18-Y-000000 (normally closed) or VEI-16-08A-NA OD.15-X-18-Y-000000 (normally open) depicted without manual override *	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
3	Connector DIN 43650 ISO 4400	1
4	Ø 5,5 through hole for mounting	4
5	Seal plate	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

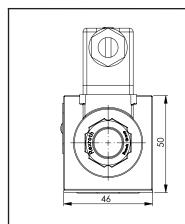


^{*} Omit if not required. For example, to order the product without coil, omit the solenoid valve coil connection and coil voltage options: H3965A-NC-E0.

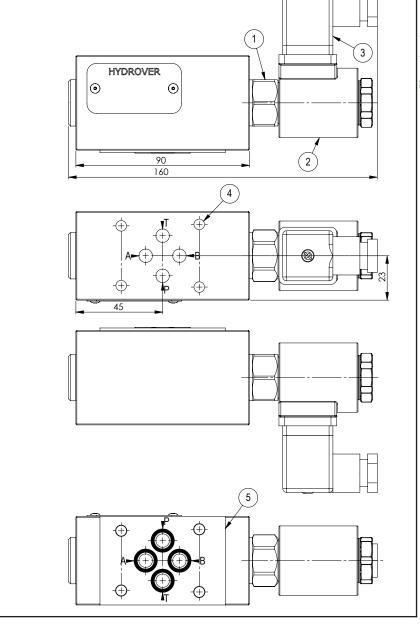


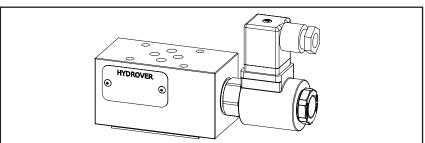
Cetop 3 modular poppet type solenoid operated directional valve between B1 and B / 40 lpm





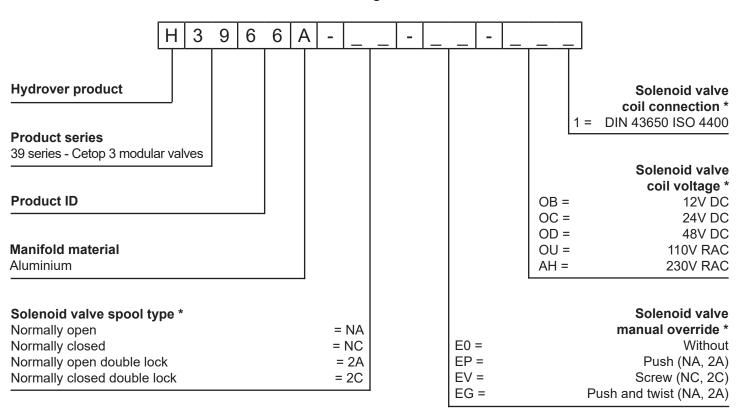
Technical data		
Max. pressure	250 bar	
Max. flow	40 lpm *	
Weight	1 Kg	
Manifold material	Aluminium	



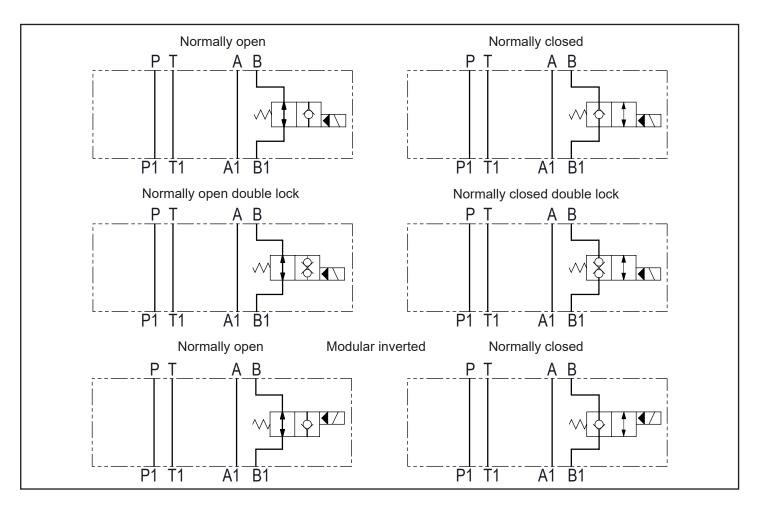


N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-08A-NC OD.15-X-18-Y-000000 (normally closed) or VEI-16-08A-NA OD.15-X-18-Y-000000 (normally open) depicted without manual override *	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
3	Connector DIN 43650 ISO 4400	1
4	Ø 5,5 through hole for mounting	4
5	Seal plate	1

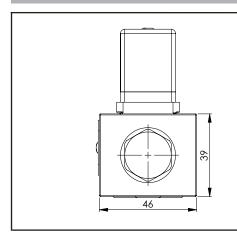
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



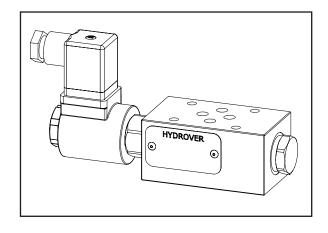
* Omit if not required. For example, to order the product without coil, omit the solenoid valve coil connection and coil voltage options: H3966A-NC-E0.

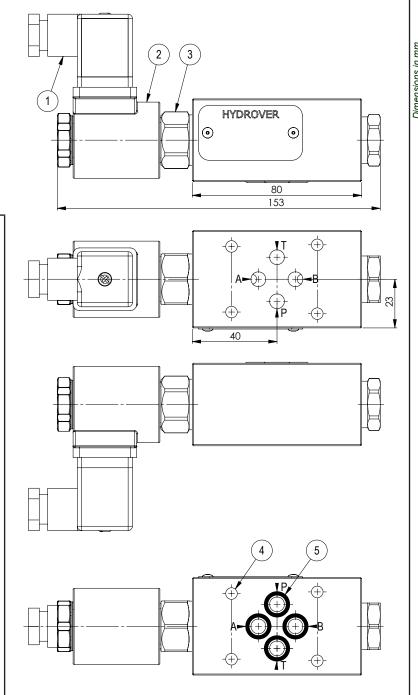


Cetop 3 modular poppet type solenoid operated directional valve between A and B / Float



Technical data	
Max. pressure	250 bar
Max. flow	40 lpm *
Weight	0,7 Kg
Manifold material	Aluminium

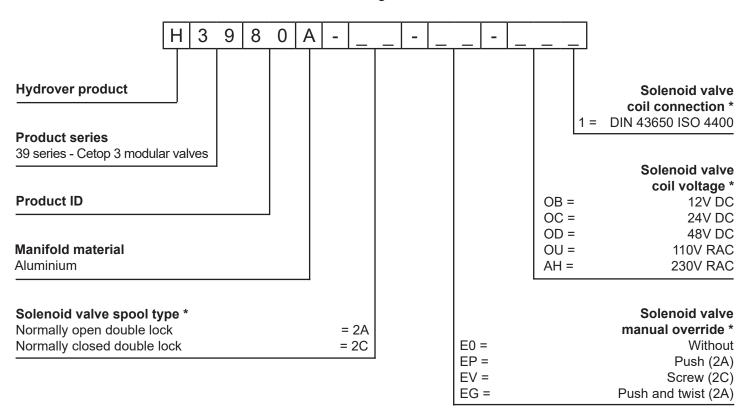




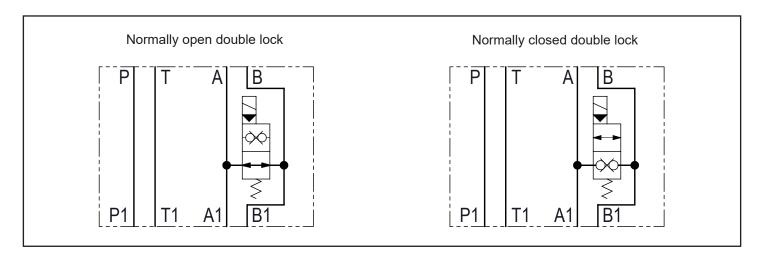
N°	Description	Q.ty
1	Connector DIN 43650 ISO 4400	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
3	Bosch Rexroth solenoid valve VEI-16-08A-NC OD.15-31-18-Y-000000 (normally closed) or VEI-16-08A-NA OD.15-32-18-Y-000000 (normally open) depicted without manual override *	1
4	Ø 5,5 through hole for mounting	4
5	OR 108 i. Ø 8,73 cross section 1,78	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

39 SERIES **H3980**

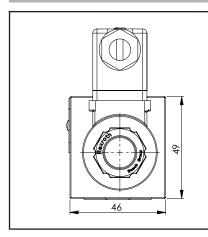


^{*} Omit if not required. For example, to order the product without coil, omit the solenoid valve coil connection and coil voltage options: H3980A-2C-E0.

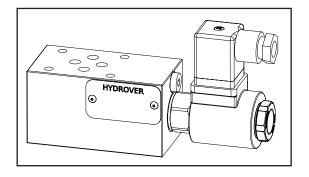


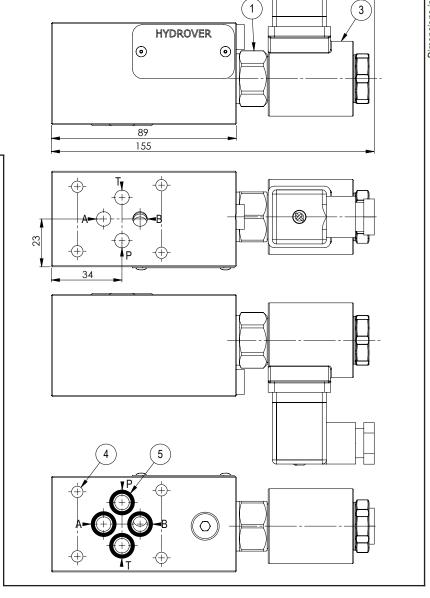
Cetop 3 modular bypass valve on B / 40 lpm





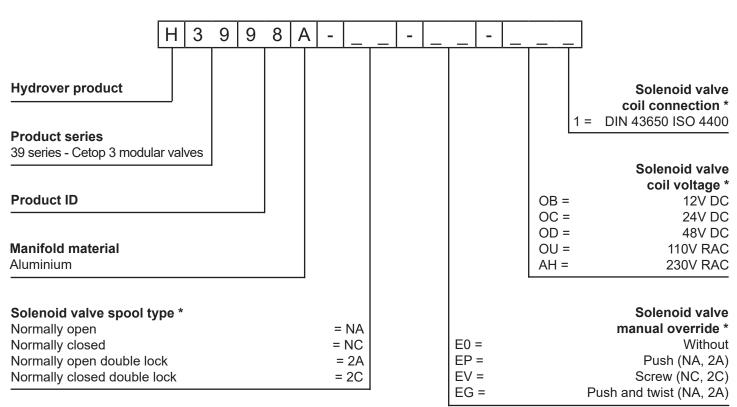
Technical data		
Max. pressure	250 bar	
Max. flow	40 lpm *	
Weight	1 Kg	
Manifold material	Aluminium	



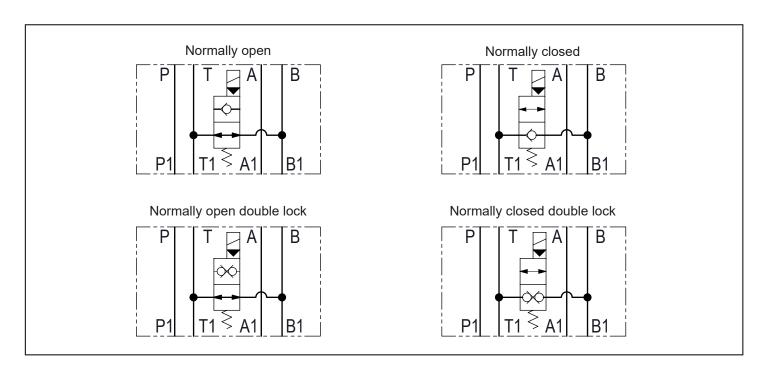


N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-08A-NC OD.15-X-18-Y-000000 (normally closed) or VEI-16-08A-NA OD.15-X-18-Y-000000 (normally open) depicted without manual override *	1
2	Connector DIN 43650 ISO 4400	1
3	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
4	Ø 5,5 through hole for mounting	4
5	OR 108 i. Ø 8,73 cross section 1,78	4

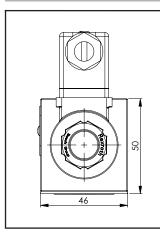
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



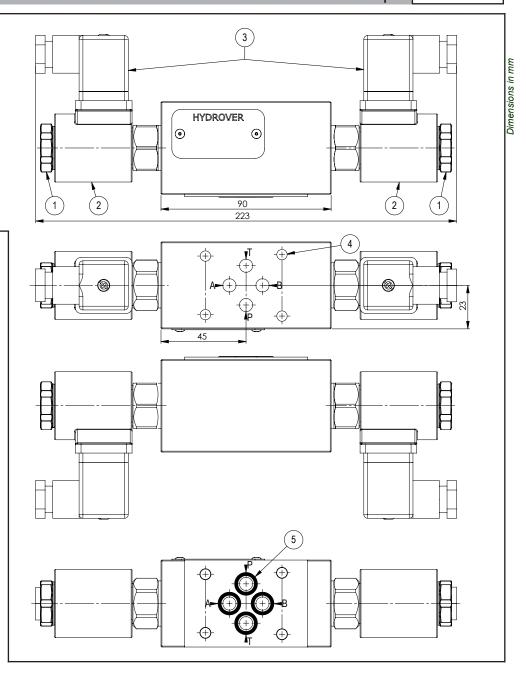
^{*} Omit if not required. For example, to order the product without coil, omit the solenoid valve coil connection and coil voltage options: H3998A-NC-E0.

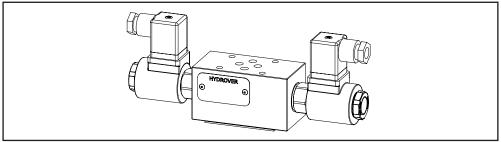


Cetop 3 modular poppet type solenoid operated directional valves between A1 and A / B1 and B / 40 lpm



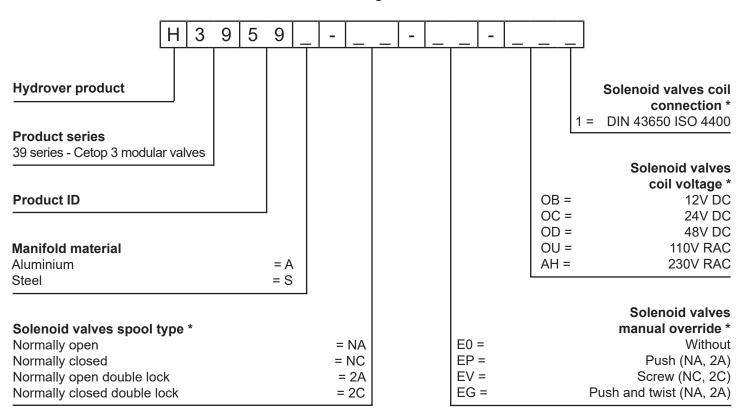
Technical data		
Max. flow	40 lpm *	
With Aluminium manifold		
Max. pressure	250 bar	
Weight	1,3 Kg	
With steel manifold		
Max. pressure	350 bar	
Weight	2,2 Kg	



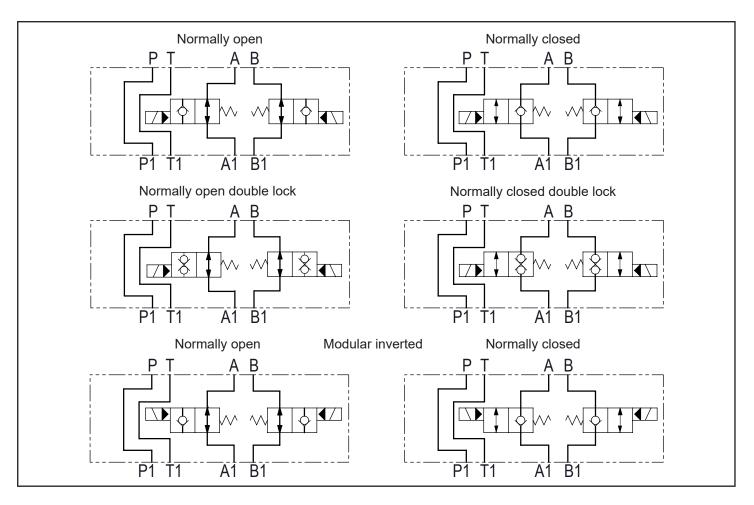


N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-08A-NC OD.15-X-18-Y-000000 (normally closed) or VEI-16-08A-NA OD.15-X-18-Y-000000 (normally open) depicted without manual override *	2
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	2
3	Connector DIN 43650 ISO 4400	2
4	Ø 5,5 through hole for mounting	4
5	Seal plate	1

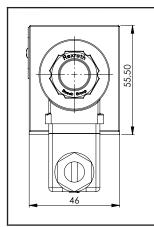
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



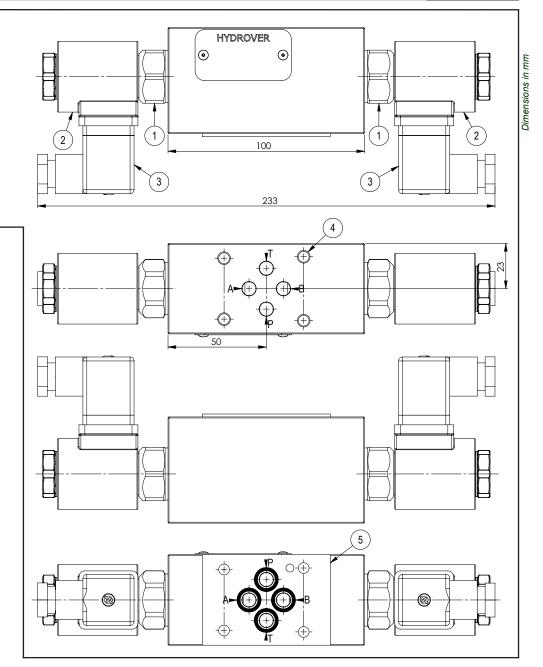
^{*} Omit if not required. For example, to order the product without coils, omit the solenoid valves coil connection and coil voltage options: H3959A-NC-E0.

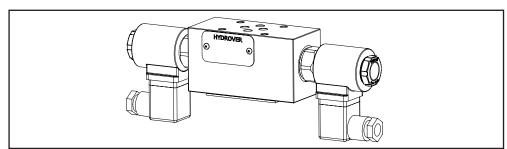


Cetop 3 modular poppet type solenoid operated directional valves between A1 and A / B1 and B / 60 lpm



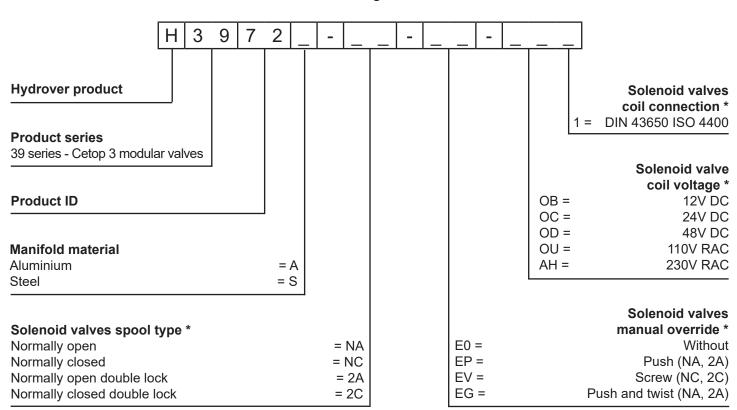
Technical data			
Max. flow	60 lpm *		
With Aluminium manifold			
Max. pressure	250 bar		
Weight	1,2 Kg		
With steel manifold			
Max. pressure	350 bar		
Weight	2,4 Kg		



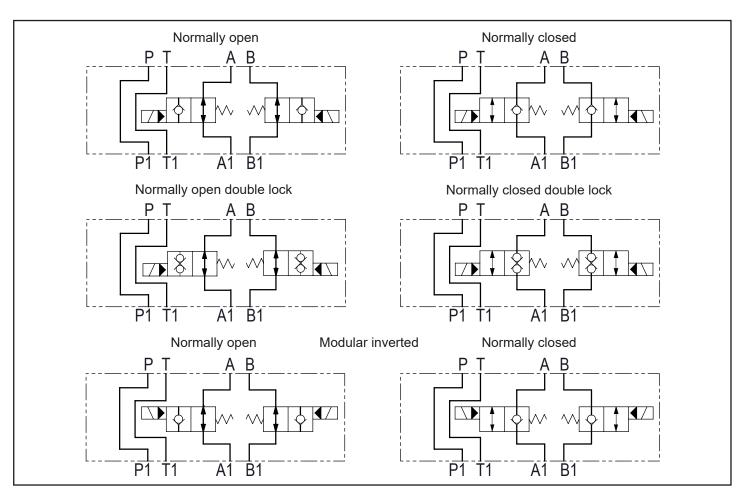


N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-10A-NC OD.15-X-36-Y-000000 (normally closed) or VEI-16-10A-NA OD.15-X-36-Y-000000 (normally open) *	2
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	2
3	Connector DIN 43650 ISO 4400	2
4	Ø 5,5 through hole for mounting	4
5	Seal plate	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



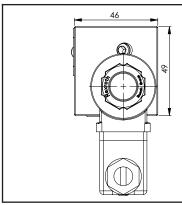
^{*} Omit if not required. For example, to order the product without coils, omit the solenoid valves coil connection and coil voltage options: H3972A-NC-E0.



Cetop 3 modular bypass and relief valve / 35 lpm

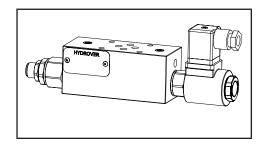
HYDROVER

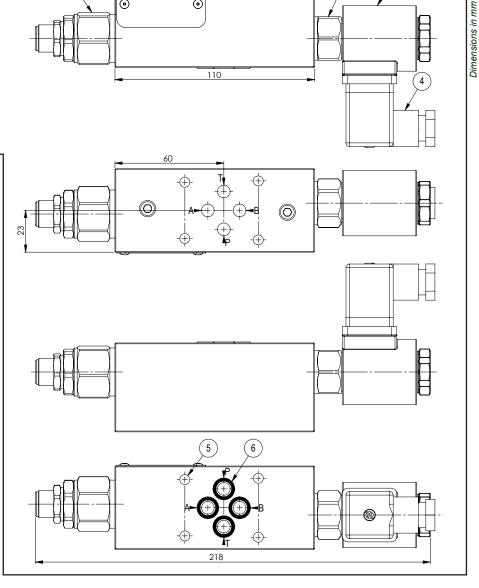
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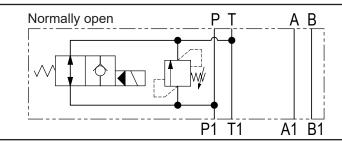


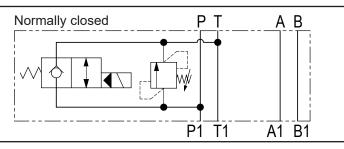
46	
	49

Technical data	
Max. pressure	250 bar
Max. flow	35 lpm *
Weight	1,2 Kg
Manifold material	Aluminium



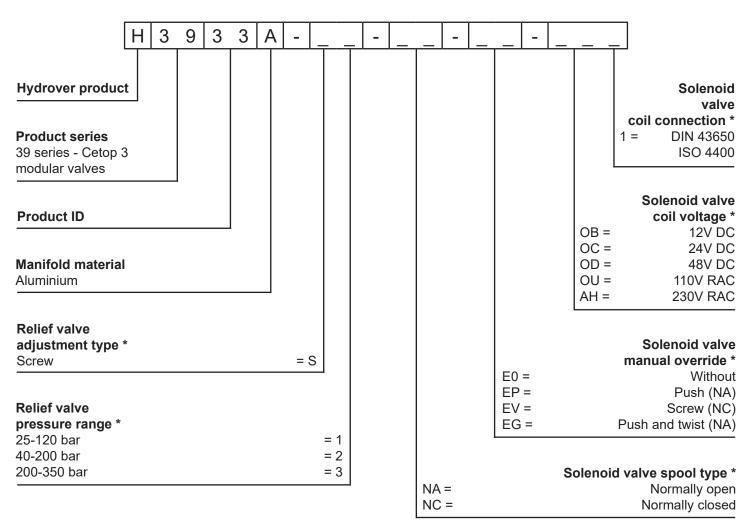






N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-08A-NC OD.15.05.18-Y-000000 (normally closed) or VEI-16-08A-NA OD.15.06.18-Y-000000 (normally open) depicted without manual override *	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
3	Bosch Rexroth relief valve VMD1.040 *	1
4	Connector DIN 43650 ISO 4400	1
5	Ø 5,5 through hole for mounting	4
6	OR 108 i. Ø 8,73 cross section 1,78	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



^{*} Omit if not required. For example, to order the product without the relief cartridge valve, omit the relief valve adjustment type and pressure range options: H3933A-E0-OC1.

The manifold will still be provided with the corrisponding cavity.

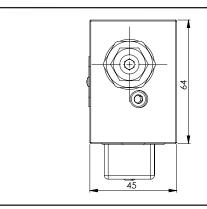
To inhibit a function, replace the related valve options with TL: eg H3933A-TL-E0-OC1.

In the cavity it will be mounted a long plug.

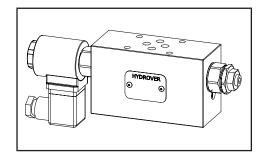
Valve	Cavity	Long plug code
Solenoid valve VEI-16-8A OD.15.05.18-Y-000000 or VEI-16-8A OD.15.06.18-Y-000000	CA-08A-2N	0489A2005600000
Pressure relief valve VMD1.040	CA-10A-2N	0489A2008500000

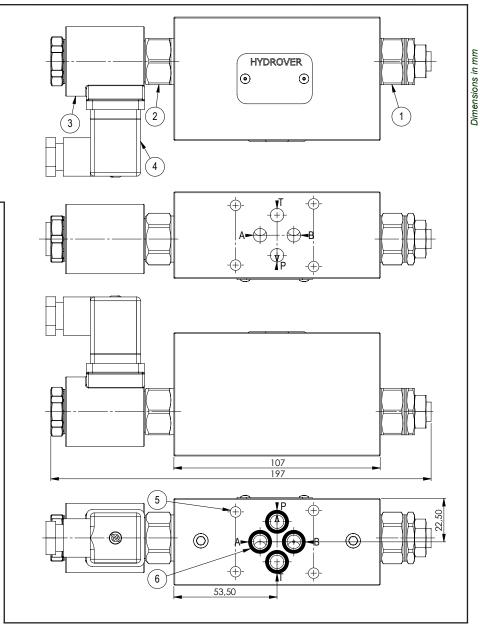


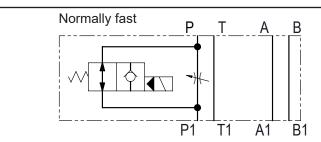
Modular Cetop 3 with 2 way flow regulator on P and fast slow speed H39104

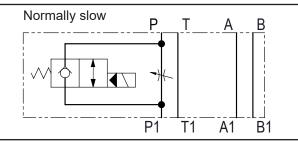


Technical data			
Max. pressure	250 bar		
Max. flow	35 lpm *		
Weight	1,2 Kg		
Manifold material	Aluminium		



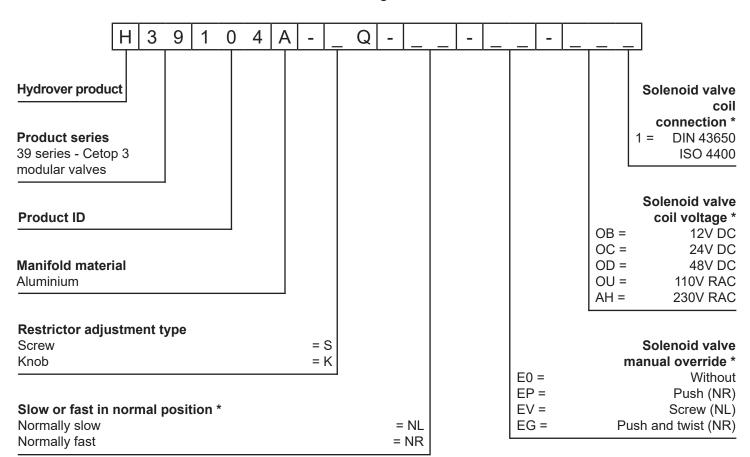






N°	Description	Q.ty
1	Bosch Rexroth bidirectional flow restrictor OD.21.01-X-56 * depicted with screw adjustment	1
2	Bosch Rexroth solenoid valve VEI-16-08A-NC OD.15.05.18-Y-000000 (normally slow) or VEI-16-08A-NA OD.15.06.18-Y-000000 (normally fast) depicted without manual override *	1
3	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
4	Connector DIN 43650 ISO 4400	1
5	Ø 5,5 through hole for mounting	4
6	OR 108 i. Ø 8,73 cross section 1,78	4

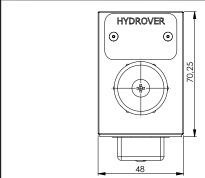
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



^{*} Omit if not required. For example, to order the product without the relief cartridge valve, omit the relief valve adjustment type and pressure range options: H39104A-SQ.

The manifold will still be provided with the corrisponding cavity.

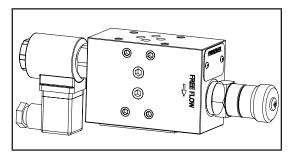
Modular Cetop 3 2 way compensated flow regulator valve on P or T with fast slow speed / reversible with seal plate

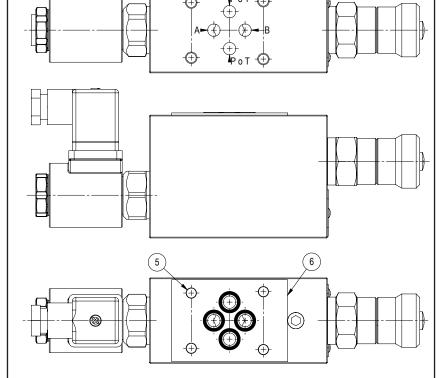


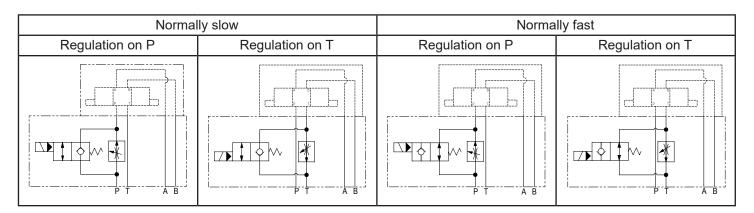
HYDROVER	†
•	70,25
48	

|--|

Technical data		
250 bar		
50 lpm *		
30 lpm *		
1,5 Kg		
Aluminium		

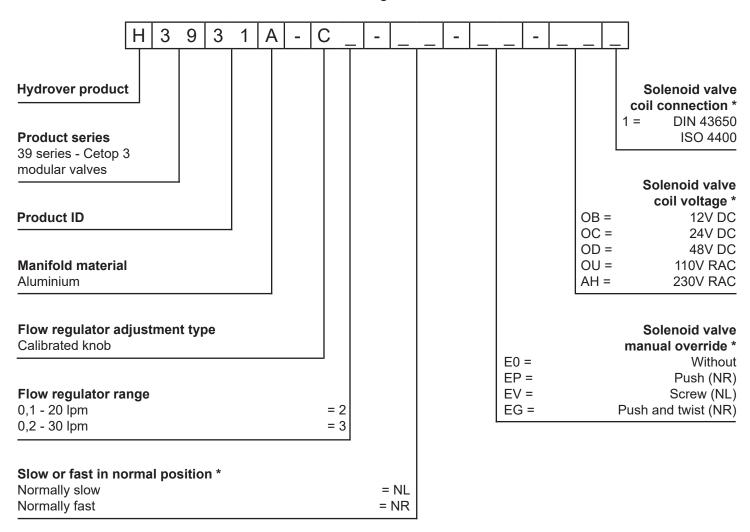






N°	Description	Q.ty
1	Connector DIN 43650 ISO 4400	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
3	Bosch Rexroth solenoid valve for fast slow function OD.15.05.36-Y-000000 (normally slow) or OD.15.06.36-Y-000000 (normally fast) depicted without manual override *	1
4	Bosch Rexroth 2 way compensated flow regulator 04.02.02.40.85-Z *	1
5	Ø 5,5 through hole for mounting	4
6	Seal plate	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



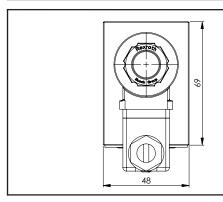
^{*} Omit if not required. To order the product without the fast slow solenoid cartridge valve, omit the slow fast in normal position, manual override, coil voltage and coil connection options: H3931A-C2.

The manifold will still be provided with the corrisponding cavity.

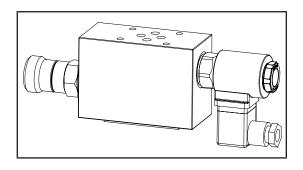
To inhibit the fast slow speed function, replace the related solenoid valve options with TL: eg H3931A-C2-TL. In the cavity it will be mounted a long plug.

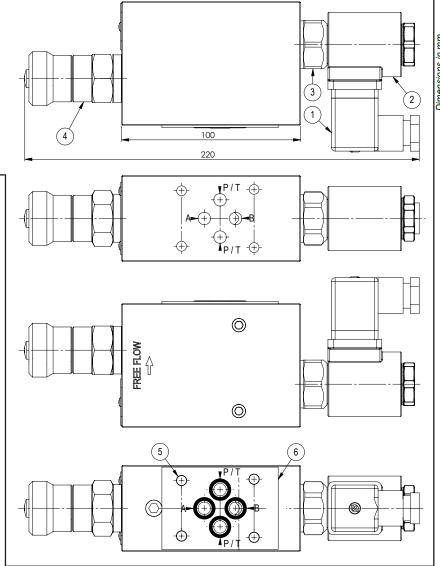
Valve	Cavity	Long plug code
Solenoid valve OD.15.05.36-Y-000000 or OD.15.06.36-Y-000000	CA-10A-2N	0489A2008500000

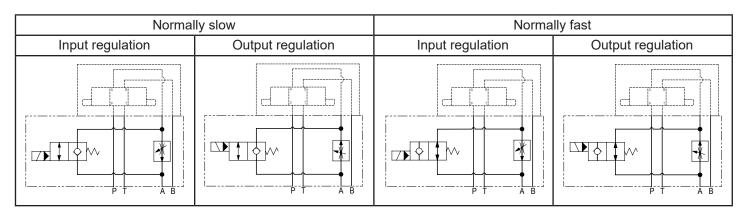
Modular Cetop 3 flow regulation 2 way compensated on A (in or out) with fast slow speed / reversible with seal plate



Technical data			
Max. pressure	250 bar		
Max. flow	50 lpm *		
Regulated max. flow	30 lpm *		
Weight 1,5 Kg			
Manifold material	Aluminium		

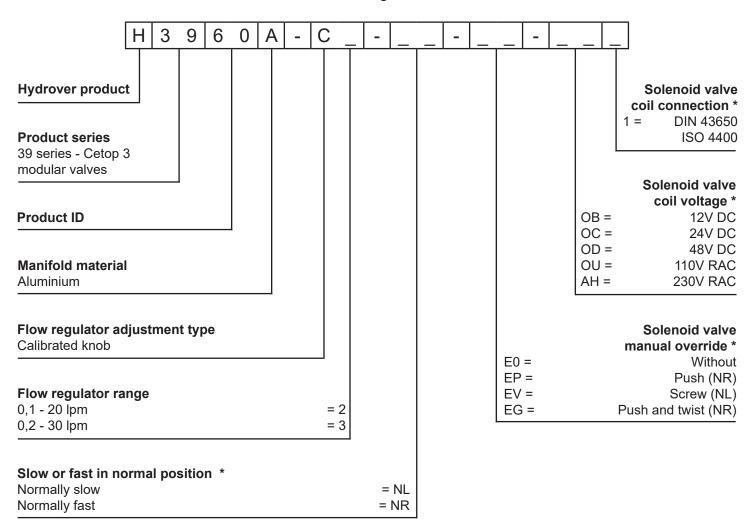






N°	Description	Q.ty
1	Connector DIN 43650 ISO 4400	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
3	Bosch Rexroth solenoid valve for fast slow function OD.15.05.36-Y-000000 (normally slow) or OD.15.06.36-Y-000000 (normally fast) depicted without manual override *	1
4	Bosch Rexroth 2 way compensated flow regulator 04.02.02.40.85-Z *	1
5	Ø 5,5 through hole for mounting	4
6	Seal plate	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



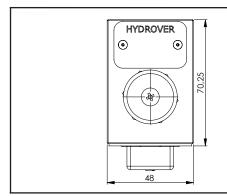
^{*} Omit if not required. For example, to order the product without the fast slow solenoid cartridge valve, omit the solenoid valve manual override, coil voltage and coil connection options: H3960A-C2.

The manifold will still be provided with the corrisponding cavity.

To inhibit the fast slow speed function, replace the related solenoid valve options with TL: eg H3960A-C2-TL. In the cavity it will be mounted a long plug.

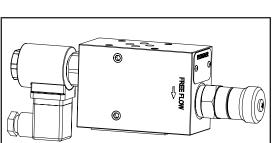
Valve	Cavity	Long plug code
Solenoid valve OD.15.05.36-Y-000000 or OD.15.06.36-Y-000000	CA-10A-2N	0489A2008500000

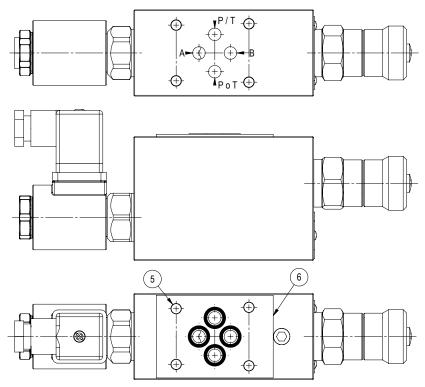
Modular Cetop 3 flow regulation 2 way compensated on B valve (in or out) with fast slow speed / reversible with seal plate

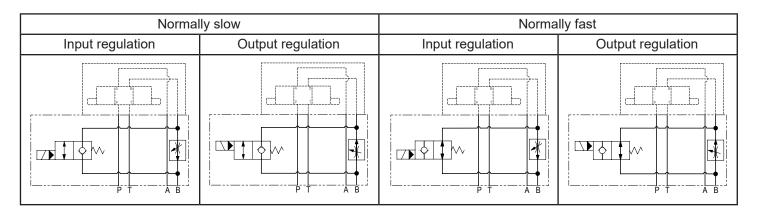


1 2 3	© ©	FREE FLOW
	100	
	227	•

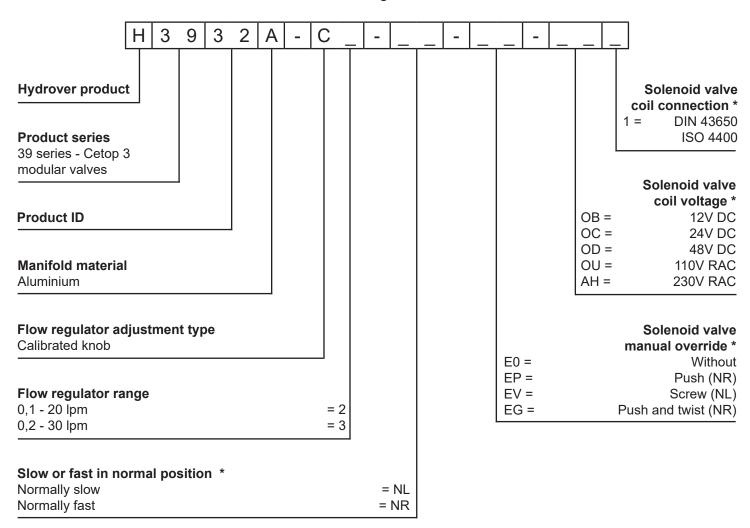
Technical data		
Max. pressure	250 bar	
Max. flow	50 lpm *	
Regulated max. flow	30 lpm *	
Weight	1,5 Kg	
Manifold material	Aluminium	







N°	Description	Q.ty
1	Connector DIN 43650 ISO 4400	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
3	Bosch Rexroth solenoid valve for fast slow function OD.15.05.36-Y-000000 (normally slow) or OD.15.06.36-Y-000000 (normally fast) depicted without manual override *	1
4	Bosch Rexroth 2 way compensated flow regulator 04.02.02.40.85-Z *	1
5	Ø 5,5 through hole for mounting	4
6	Seal plate	1



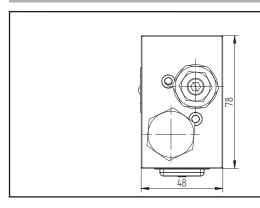
^{*} Omit if not required. For example, to order the product without the fast slow solenoid cartridge valve, omit the solenoid valve manual override, coil voltage and coil connection options: H3932A-C2.

The manifold will still be provided with the corrisponding cavity.

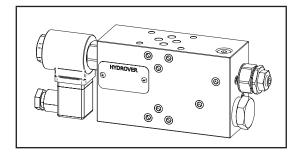
To inhibit the fast slow speed function, replace the related solenoid valve options with TL: eg H3932A-C2-TL. In the cavity it will be mounted a long plug.

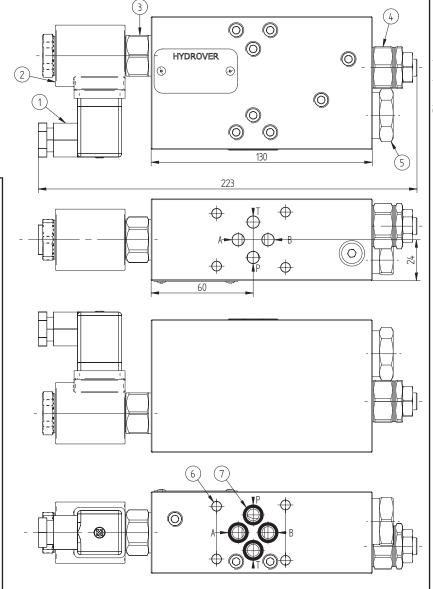
Valve	Cavity	Long plug code
Solenoid valve OD.15.05.36-Y-000000 or OD.15.06.36-Y-000000	CA-10A-2N	0489A2008500000

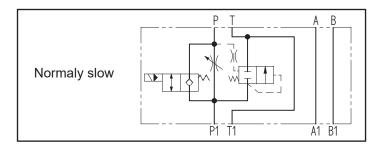
Modular Cetop 3 3 way compensated flow regulator valve on P with fast slow speed

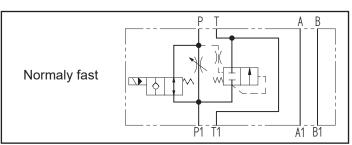


Technical data		
Max. pressure	210 bar	
Max. flow	35 lpm	
Weight	1,8 Kg	
Manifold material	Aluminium	









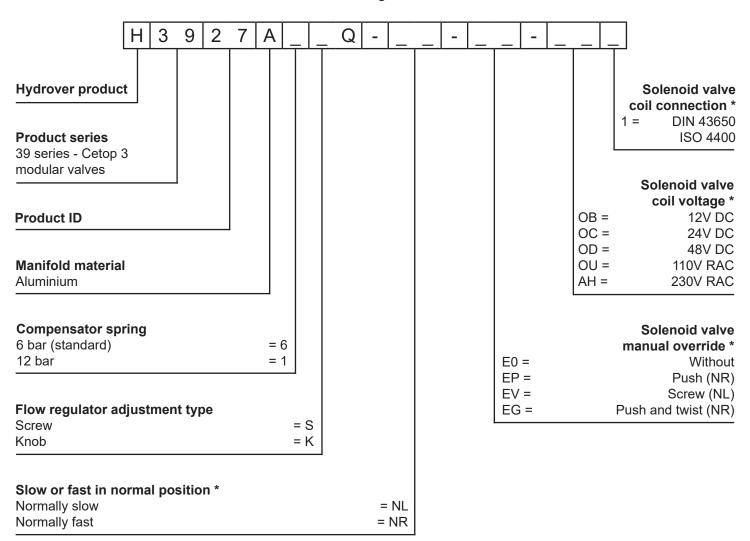
N°	Description	Q.ty
1	Connector DIN 43650 ISO 4400	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
3	Bosch Rexroth solenoid valve for fast slow function VEI-16-08A-NC OD.15.05.18-Y-000000 (normally slow) or VEI-16-08A-NA OD.15.06.18-Y-000000 (normally fast) depicted without manual override *	1
4	Bosch Rexroth bidirectional flow restrictor OD.21.01-X-56 * depicted with screw adjustment	1
5	Pressure compensator	1
6	Ø 5,5 through hole for mounting	4
7	OR 108 i. Ø 8,73 cross section 1,78	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



39 SERIES **H3927**

Ordering code



^{*} Omit if not required. For example, to order the product without the fast slow solenoid cartridge valve, omit the solenoid valve manual override, coil voltage and coil connection options: H3927A4SQ.

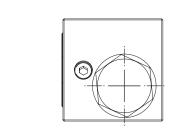
The manifold will still be provided with the corrisponding cavity.

To inhibit the fast slow speed function, replace the related solenoid valve options with TL: eg H3927A4SQ-TL. In the cavity it will be mounted a long plug.

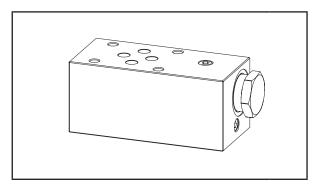
Valve	Cavity	Long plug code
Solenoid valve VEI-16-08A-NC OD.15.05.18-Y-000000 or VEI-16 08A-NA	CA-08A-2N	0489A2005600000
OD.15.06.18-Y-000000		

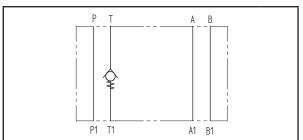


Cetop 3 modular check valve on T

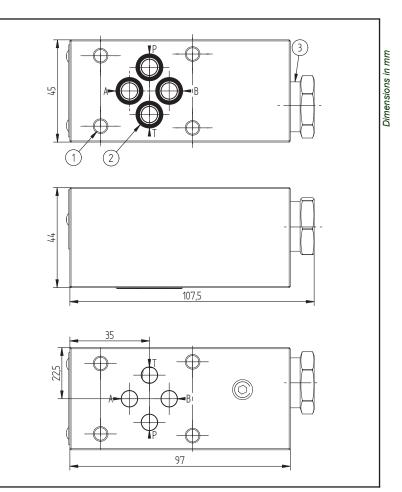


Technical data		
Max. pressure	250 bar	
Max. flow	50 lpm	
Weight	0,7 Kg	
Manifold material	Aluminium	



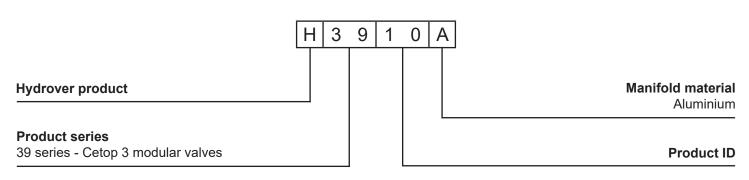


N°	Description	Q.ty
1	Ø 5,5 through hole for mounting	4
2	OR 108 i. Ø 8,73 cross section 1,78	4
3	Bosch Rexroth check valve	1





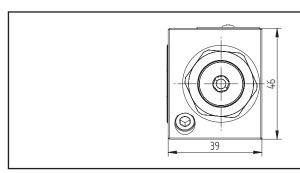
39 SERIES **H3910**



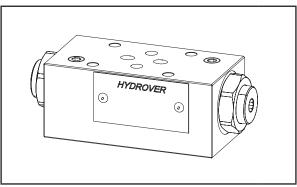
HYDROVER

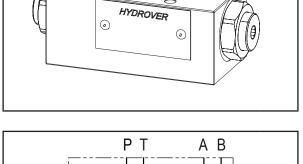
Cetop 3 modular piloted operated check valves on A e B / pilot ratio 7:1

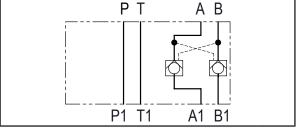




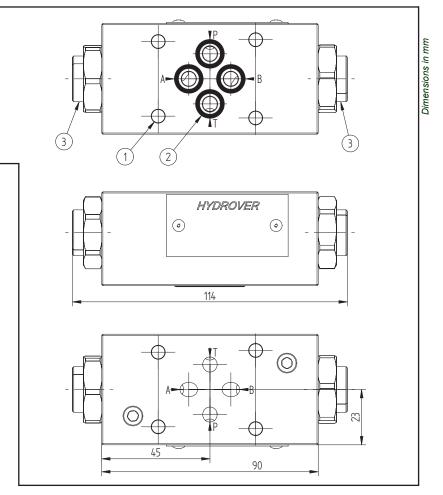
Technical data		
Max. flow	30 lpm	
With Aluminium manifold		
Max. pressure	250 bar	
Weight	0,6 Kg	
With steel manifold		
Max. pressure	350 bar	
Weight	1,2 Kg	





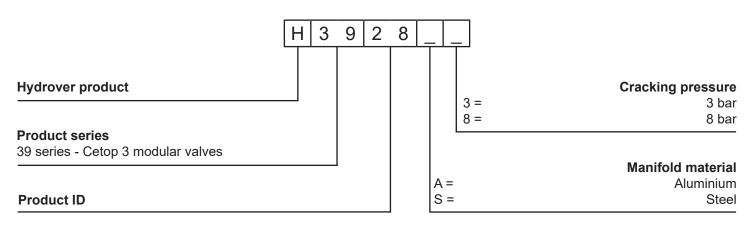


N°	Description	Q.ty
1	Ø 5,5 through hole for mounting	4
2	OR 108 i. Ø 8,73 cross section 1,78	4
3	Bosch Rexroth check valve	2



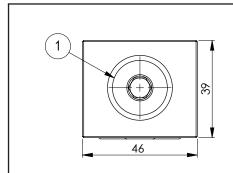


39 SERIES **H3928**

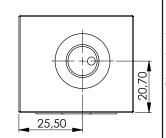




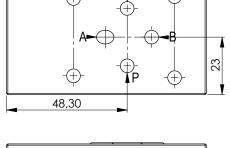
Cetop 3 modular shuttle valve between A and B H39105

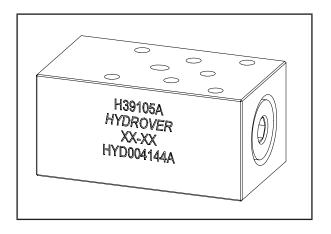


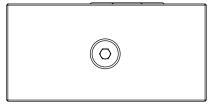
H39105A HYDROVER XX-XX HYD004144A	
80	

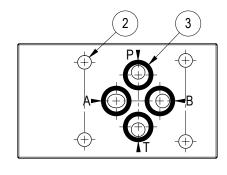


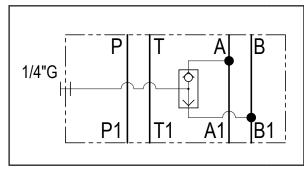
Technical data				
Max. flow shuttle valve	5 lpm			
Max. flow A / B / P / T	40 lpm			
Max. pressure	Aluminium: Steel:	250 bar 350 bar		
Weight	Aluminium: Steel:	0,4 Kg 1 Kg		
Manifold material	Aluminium or Steel			
Shuttle valve port	1/4" G			









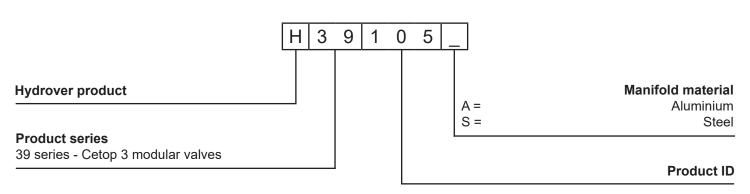


N°	Description	Q.ty
1	Sealed shuttle valve under 3/8" G plug	1
2	Ø 5,5 through hole for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	4



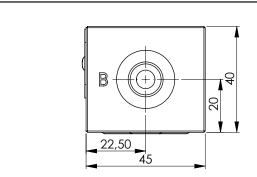
39 SERIES **H39105**

Codice d'ordinazione

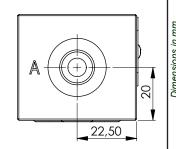




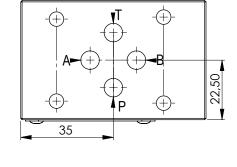
Cetop 3 modular manifold with side additional A-B ports 1/4"G

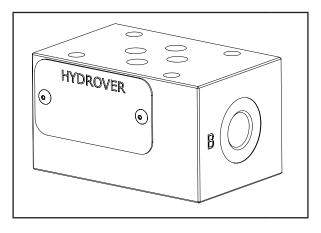


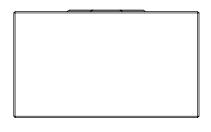
	HYDROVER	
0		o
	70	

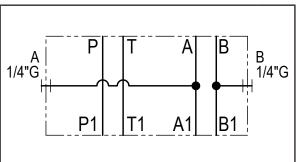


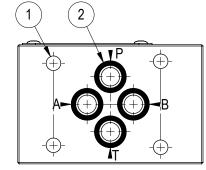
Technical data			
Max. pressure	Aluminium: Steel:	250 bar 350 bar	
Weight	Aluminium: Steel:	0,3 Kg 0,9 Kg	
Manifold material	Aluminium or Steel		
A / B ports	1/4" G		







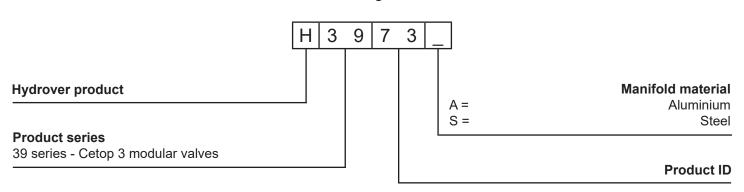




N°	Description	Q.ty
1	Ø 5,5 through hole for mounting	4
2	OR 108 i. Ø 8,73 cross section 1,78	4

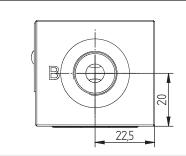


39 SERIES **H3973**

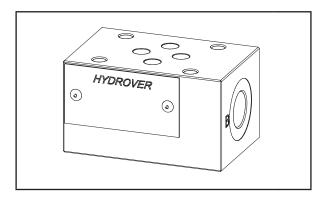


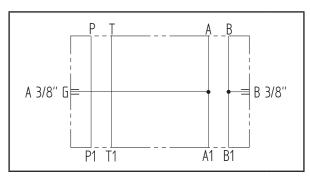


Cetop 3 modular manifold with side additional A-B ports 3/8"G

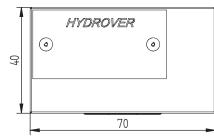


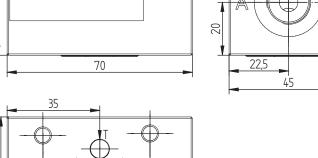
Technical data			
Max. pressure	Aluminium: Steel:	250 bar 350 bar	
Weight	Aluminium: Steel:	0,3 Kg 0,9 Kg	
Manifold material	Aluminium o Steel		
A / B ports	3/8" G		



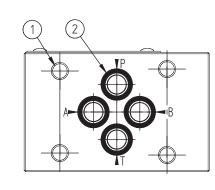


N°	Description	
1	Ø 5,5 through hole for mounting	4
2	OR 108 i. Ø 8,73 cross section 1,78	4



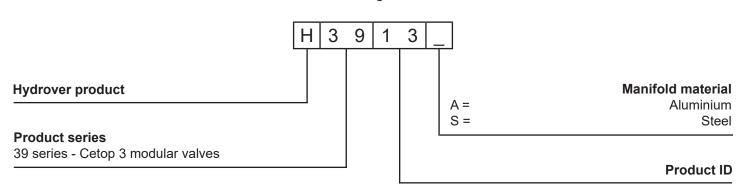






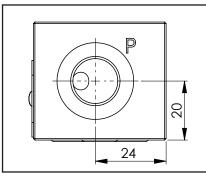


39 SERIES **H3913**

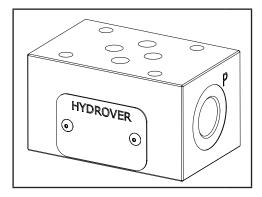


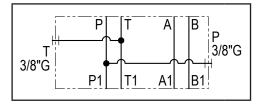


Cetop 3 modular manifold with side additional P-T ports

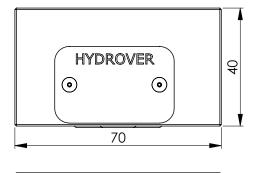


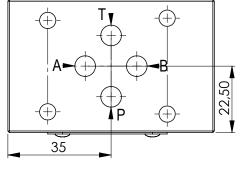
Technica	al data
Max. pressure	250 bar
Weight	0,3 Kg
Manifold material	Alluminio
P / T ports	3/8" G

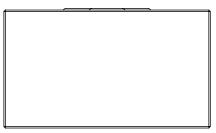


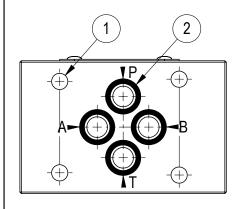


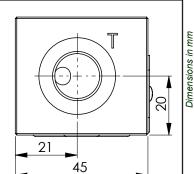
N°	Description	Q.ty
1	Ø 5,5 through hole for mounting	4
2	OR 108 i. Ø 8,73 cross section 1,78	4





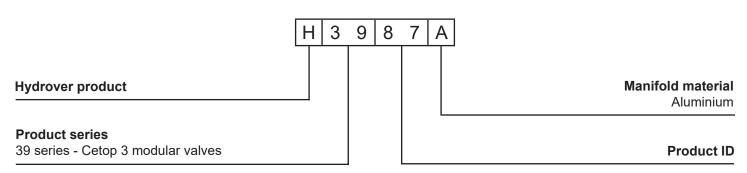








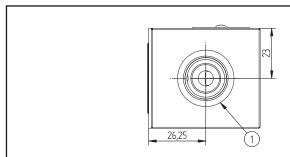
39 SERIES **H3987**



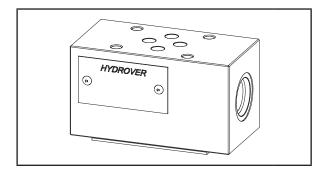


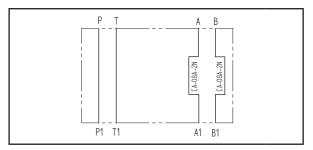
Cetop 3 modular manifold with CA-08A-2N cavities on A and B for valves and solenoid valves / invertible with seal plate

H3902



Technical data		
Max. pressure	Aluminium: Steel:	250 bar 350 bar
Weight	Aluminium: Steel:	0,6 Kg 1,4 Kg
Manifold material	Aluminium o Steel	

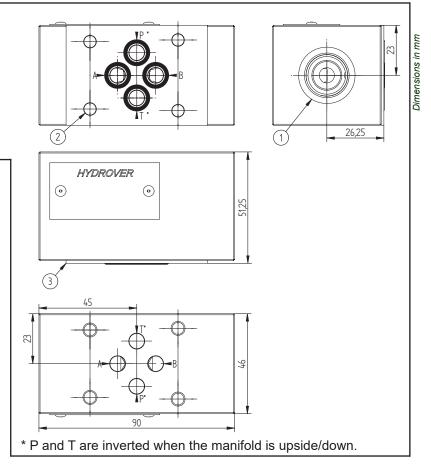


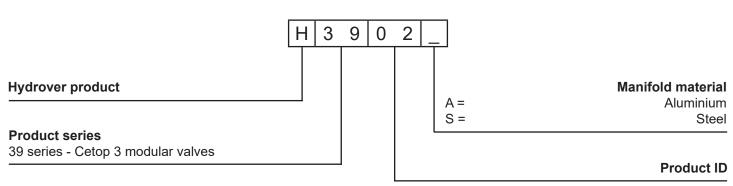


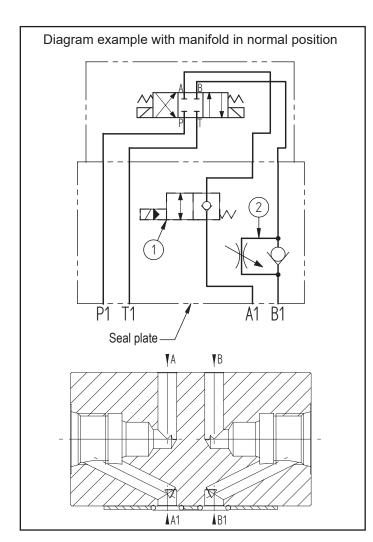
N°	Description	
1	Cavity CA-08A-2N	2
2	Ø 5,5 through hole for mounting	4
3	Seal plate	1

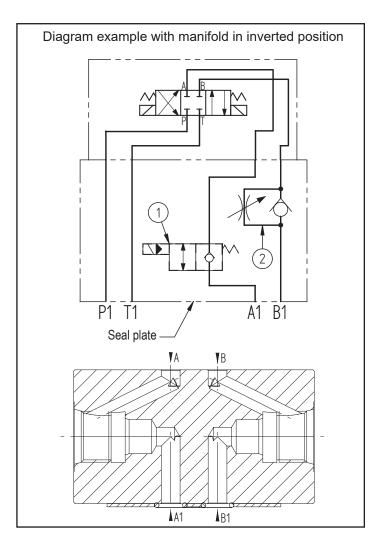
This Cetop 3 modular manifold have two CA-08A-2N cavities.

With a few valves, solenoid valves and plugs, you can configurare on A and/or B a high quantity of functions.





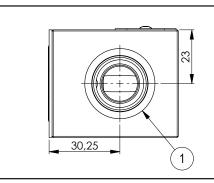




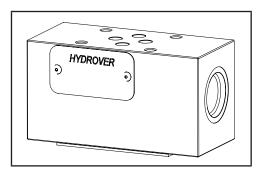
N	1°	Description	Q.ty
	1	Bosch Rexroth solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000	1
2	2	Bosch Rexroth unidirectional flow restrictor STVU-08A	1

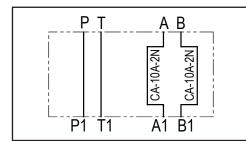
Cetop 3 modular manifold with CA-10A-2N cavities on A and B for valves and solenoid valves / invertible with seal plate

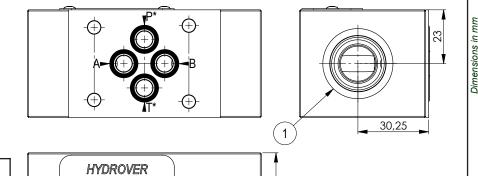
H3968

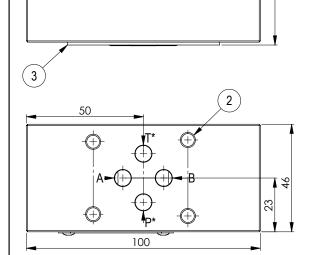


Technical data		
Max. pressure	250 bar	
Max. flow	70 lpm	
Weight	0,6 Kg	
Manifold material	Aluminium	









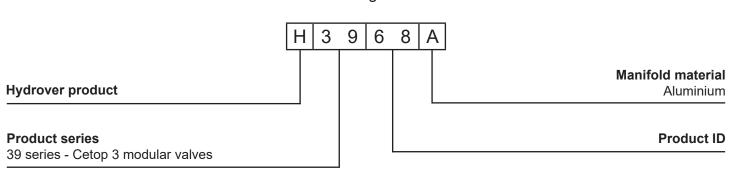
P and T are inverted when the manifold is upside/down.

This Cetop 3 modular manifold have two CA-10A-2N cavities. With a few valves, solenoid valves and plugs, you can configurare on A and/or B a high quantity of functions.

N°	Description	Q.ty
1	Cavity CA-10A-2N	2
2	Ø 5,5 through hole for mounting	
3	Seal plate	1

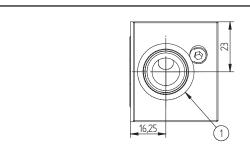


39 SERIES **H3968**

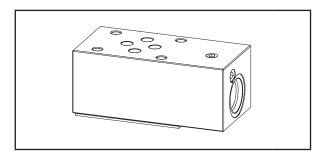


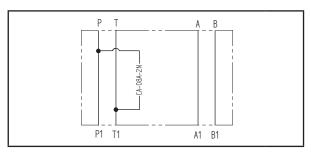


Cetop 3 modular manifold with CA-08A-2N cavity between P (end cavity) and T (side cavity) for valves / invertible with seal plate



Technical data			
Max. pressure	Aluminium: Steel:	250 bar 350 bar	
Weight	Aluminium: Steel:	0,5 Kg 1,2 Kg	
Manifold material	Aluminium o Steel		

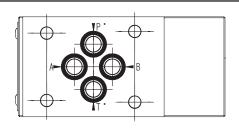


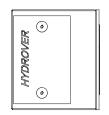


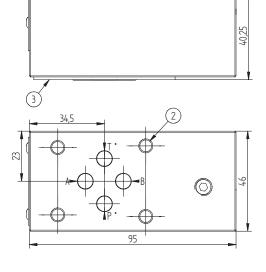
N°	Description	
1	Cavity CA-08A-2N	1
2	Ø 5,5 through hole for mounting	
3	Seal plate	1

This Cetop 3 modular manifold have one CA-08A-2N cavity.

With a few valves and solenoid valves, you can configurare a high quantity of functions.



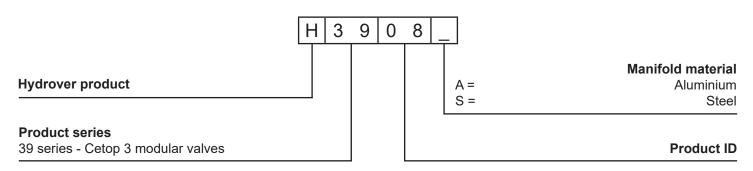




* P and T are inverted when the manifold is upside/down.

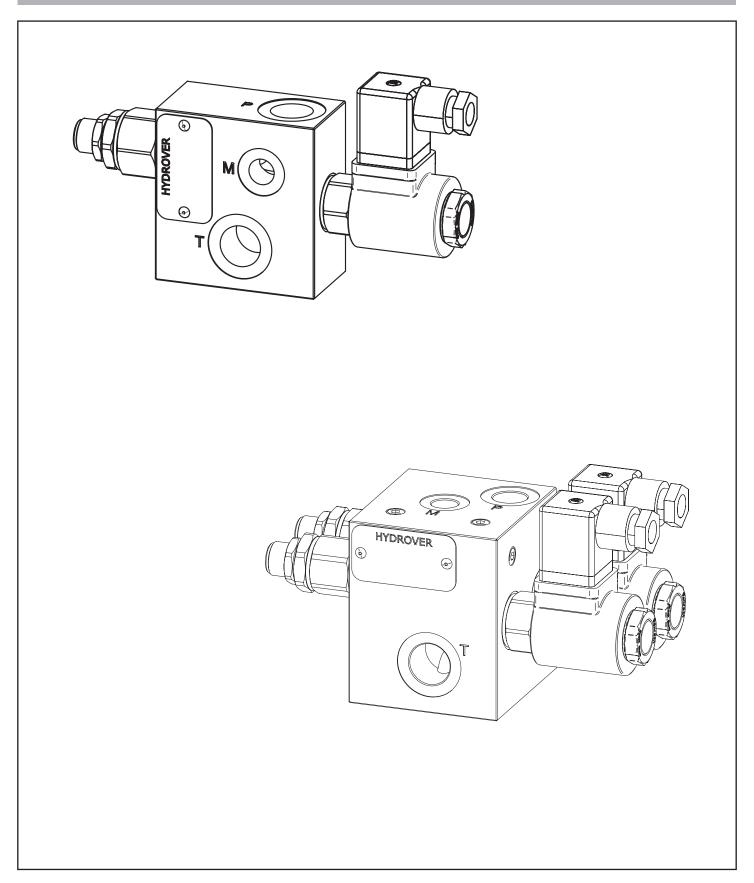


39 SERIES **H3908**



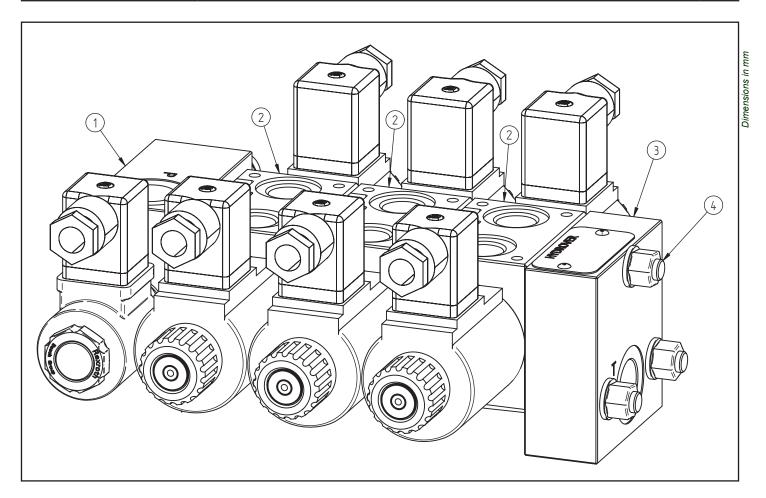


SERIE 41 Elementi per elettrodistributori bancabili ED Bosch Rexroth



Mounted group sample H41-G1 H41-G1

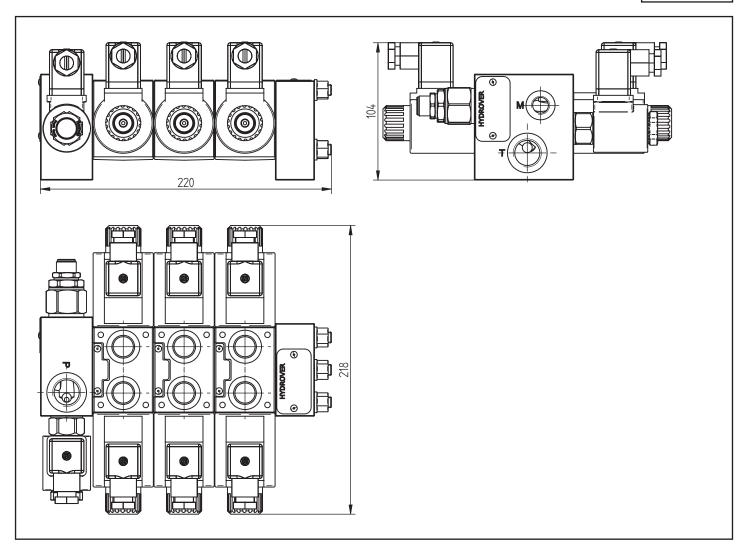
N°	Ordering code	Description	Q.ty
1	H4101A-S2-E0-OC1	INLET PLATE S41 P-T 1/2G RV 40-200 BAR EV BYPASS 24V DC DIN 40 LPM AL.	1
2	L8011B201OB0200	EE. ED2-DZ-1/2"G-PT9-B201-12DC-N WITH CONNECTOR DIN 43650 ISO 4400	3
3	H4102A	CLOSING PLATE S41 T 1/2G AL.	1
4	HKTM8X185DS-3	3 TIE RODS KIT M8X185 STANDARD NUT - S41 3 EL.	1

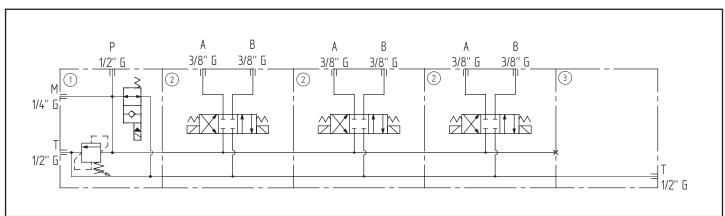


Note: 41 series plates have the flange for Bosch Rexroth valves from catalogue RE 18300 / RE 18301, but are not compatible with Bosch Rexroth plates.

For checking if your configuration is technically correct please concact our sales office.



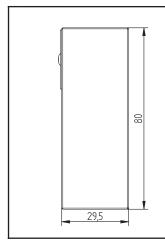




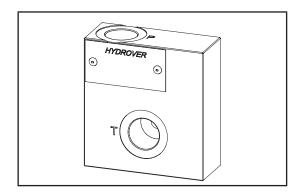


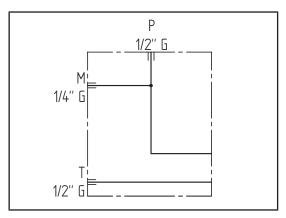
Inlet plate

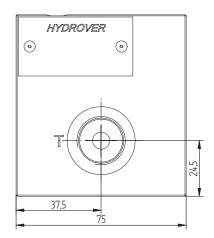


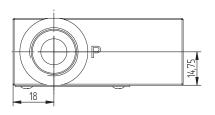


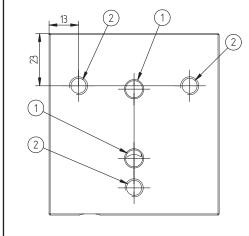
Technical data		
Max. pressure	250 bar	
Weight	0,5 Kg	
Manifold material	Aluminium	
M port	1/4" G	
P / T ports	1/2" G	

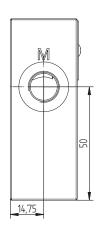










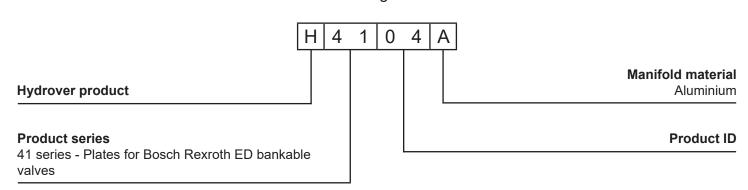


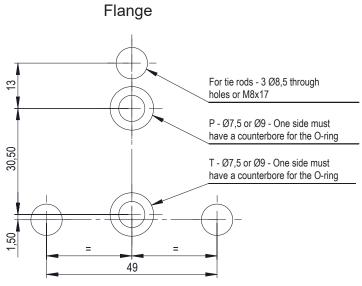
N°	Description	Q.ty
1	Ø 7,5 hole without counterbore for O-ring (P-T)	2
2	M8x17 for tie rod	3
3	M8x15 thread for mounting	2



Plates for Bosch Rexroth ED bankable valves 41 SERIES

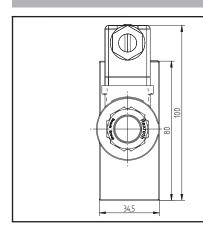
41 SERIES **H4104**



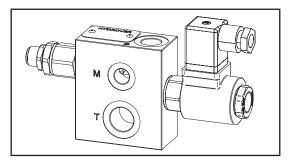


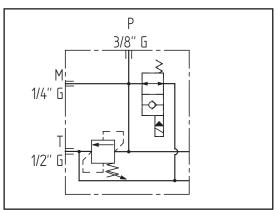
Inlet plate / relief and bypass valves / 30 lpm

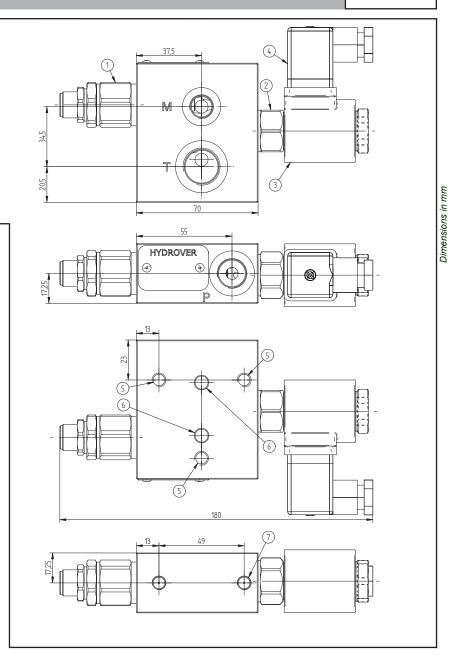
H4103



Technical data		
Max. pressure	250 bar	
Max. flow	30 lpm *	
Weight	0,8 Kg	
Manifold material	Aluminium	
M port	1/4" G	
P port	3/8" G	
T port	1/2" G	







N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.025 *	1
2	Bosch Rexroth bypass solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000 depicted without manual override *	1
3	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
4	Connector DIN 43650 ISO 4400	1
5	M8x17 for tie rod	3
6	Ø 7,5 hole without counterbore for O-ring (P-T)	2
7	M8x15 thread for mounting	2

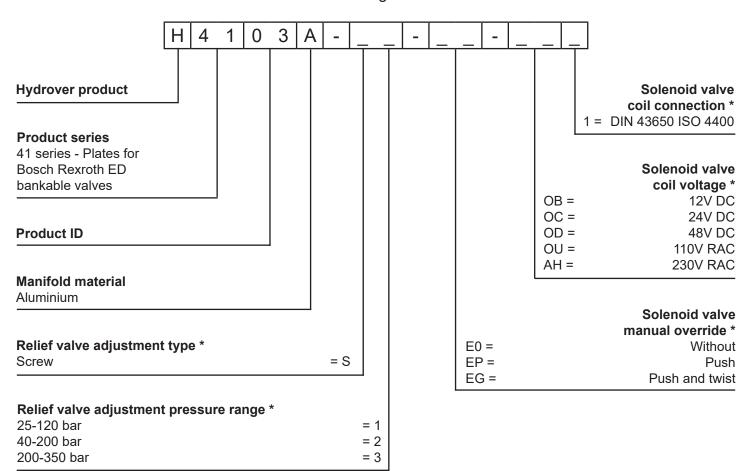
* for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Plates for Bosch Rexroth ED bankable valves 41 SERIES

41 SERIES **H4103**

Ordering code



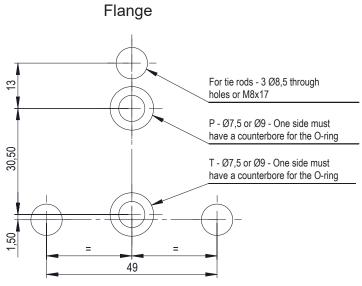
* Omit if not required. For example, to order the product without the bypass solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H4103A-S2.

The manifold will still be provided with the corrisponding cavity.

To inhibit a function, replace the related valve options with TL: eg H4103A-S2-TL.

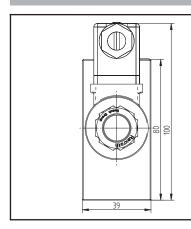
In the cavity it will be mounted a long plug.

,		
Valve	Cavity	Long plug code
Solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000	CA-08A-2N	0489A2005600000
Pressure relief valve VMD1.025	VMD1.025	R-800-016

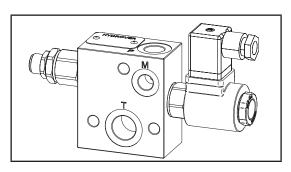


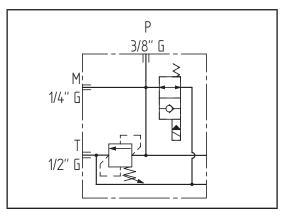


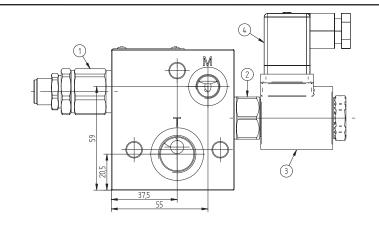
Inlet plate / relief and bypass valves / crossing holes for tie rods / 30 lpm

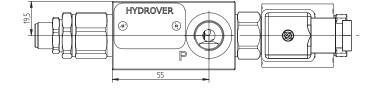


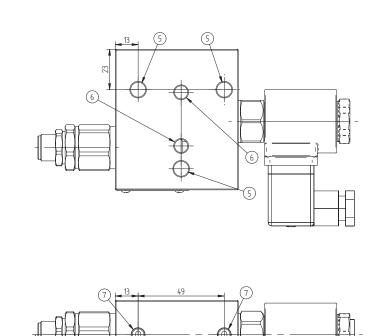
Technical data		
Max. pressure	250 bar	
Max. flow	30 lpm *	
Weight	1 Kg	
Manifold material	Aluminium	
M port	1/4" G	
P port	3/8" G	
T port	1/2" G	











N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.025 *	1
2	Bosch Rexroth bypass solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000 depicted without manual override *	1
3	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
4	Connector DIN 43650 ISO 4400	1
5	Ø 8,5 through hole for tie rod	3
6	Ø 7,5 hole without counterbore for O-ring (P-T)	2
7	M8x15 thread for mounting	2

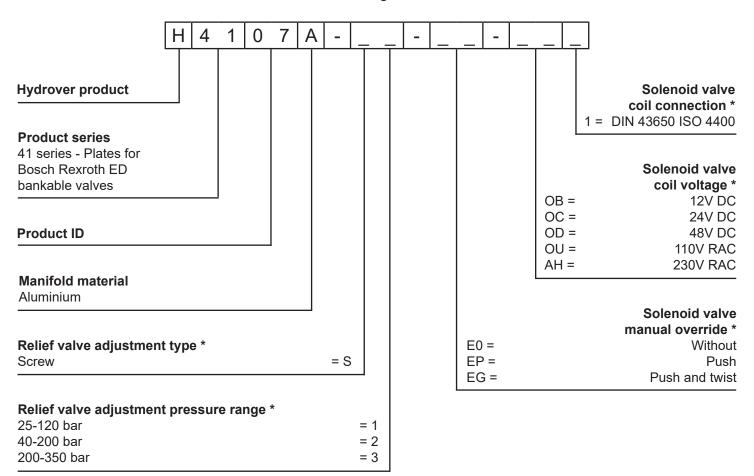
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Plates for Bosch Rexroth ED bankable valves 41 SERIES

41 SERIES **H4107**

Ordering code



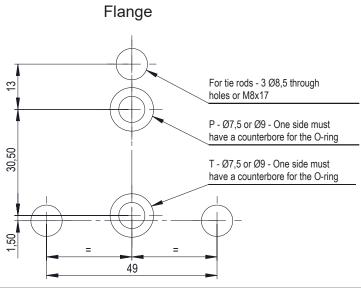
* Omit if not required. For example, to order the product without the bypass solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H4107A-S2.

The manifold will still be provided with the corrisponding cavity.

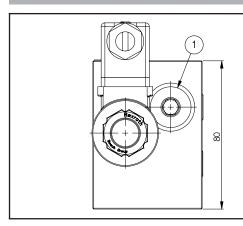
To inhibit a function, replace the related valve options with TL: eg H4107A-S2-TL.

In the cavity it will be mounted a long plug.

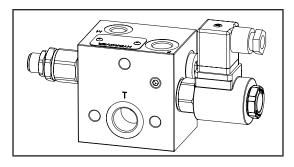
Valve	Cavity	Long plug code
Solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000	CA-08A-2N	0489A2005600000
Pressure relief valve VMD1.025	VMD1.025	R-800-016

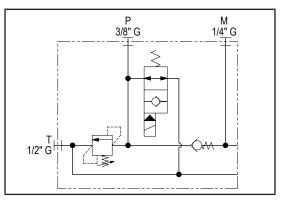


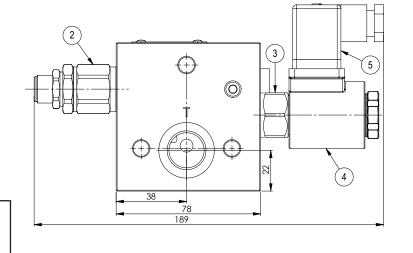
Inlet plate / check valve on P / relief and bypass valves crossing holes for tie rods / 30 lpm

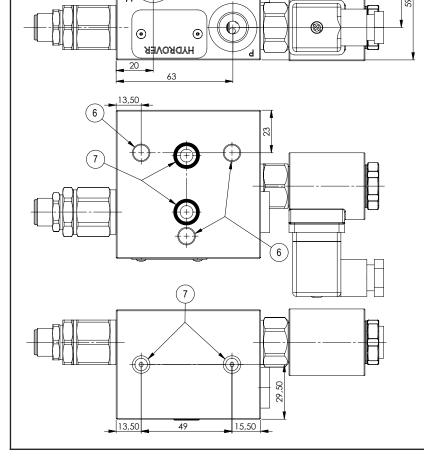


Technical data		
Max. pressure	250 bar	
Max. flow	30 lpm *	
Weight	1,4 Kg	
Manifold material	Aluminium	
M port	1/4" G	
P port	3/8" G	
T port	1/2" G	









N°	Description	Q.ty
1	Check valve 0TU301000200 (under the plug) *	1
2	Bosch Rexroth relief valve VMD1.025 *	1
3	Bosch Rexroth bypass solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000 depicted without manual override *	1
4	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
5	Connector DIN 43650 ISO 4400	1
6	Ø 8,5 through hole for tie rod	3
7	Ø 7,5 hole with OR 2043 i. Ø 10,82 cross section 1,78 (P-T)	2
8	M8x15 thread for mounting	2

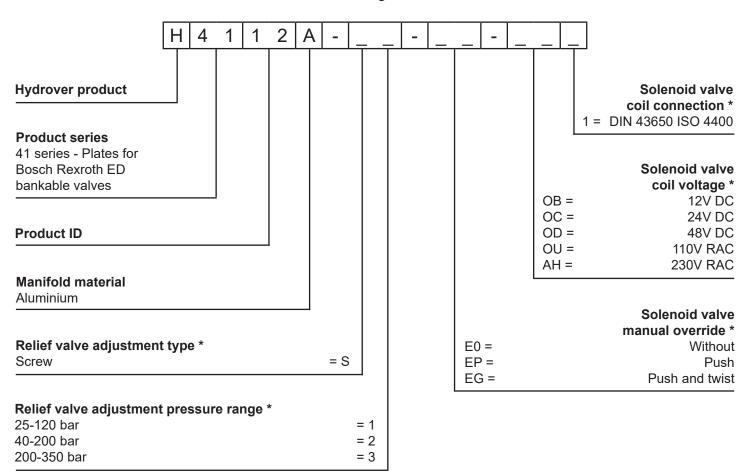
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Plates for Bosch Rexroth ED bankable valves 41 SERIES

41 SERIES **H4112**

Ordering code



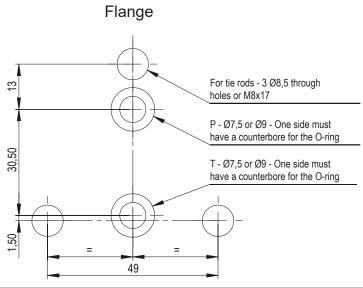
* Omit if not required. For example, to order the product without the bypass solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H4112A-S2.

The manifold will still be provided with the corrisponding cavity.

To inhibit a function, replace the related valve options with TL: eg H4112A-S2-TL.

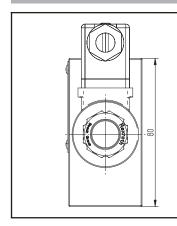
In the cavity it will be mounted a long plug.

Valve	Cavity	Long plug code
Solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000	CA-08A-2N	0489A2005600000
Pressure relief valve VMD1.025	VMD1.025	R-800-016



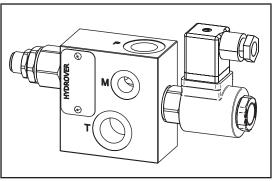
Inlet plate / relief and bypass valves / 40 lpm

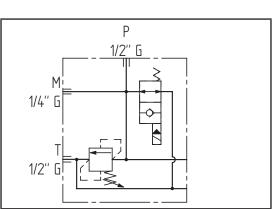


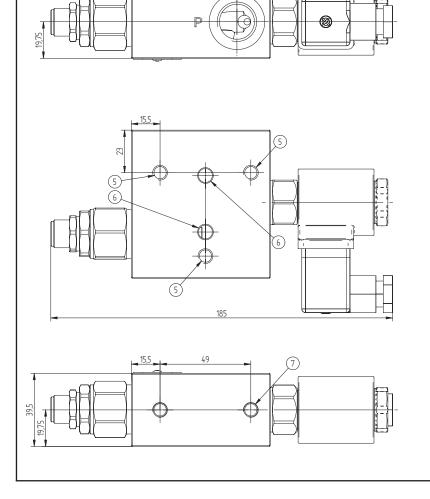


30 40 40 40 40 40 40 40 40 40 4

Technical data		
Max. pressure	250 bar	
Max. flow	40 lpm *	
Weight	1,1 Kg	
Manifold material	Aluminium	
M port	1/4" G	
P / T ports	1/2" G	







N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.040 *	1
2	Bosch Rexroth bypass solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000 depicted without manual override *	1
3	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
4	Connector DIN 43650 ISO 4400	1
5	M8x17 for tie rod	3
6	Ø 7,5 hole without counterbore for O-ring (P-T)	2
7	M8x15 thread for mounting	2

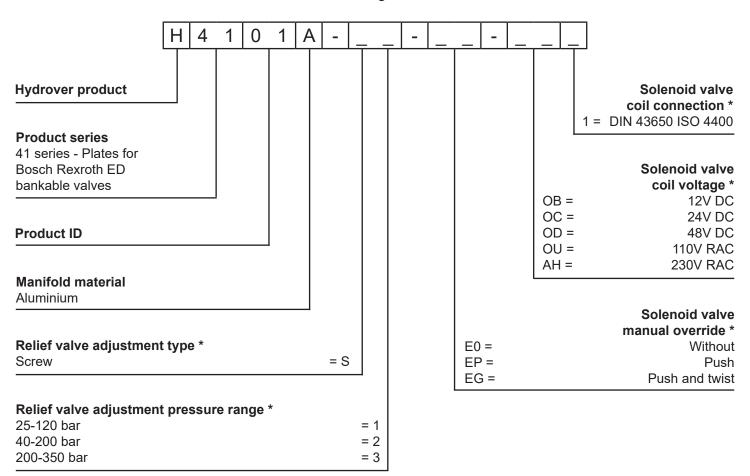
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Plates for Bosch Rexroth ED bankable valves 41 SERIES

41 SERIES **H4101**

Ordering code



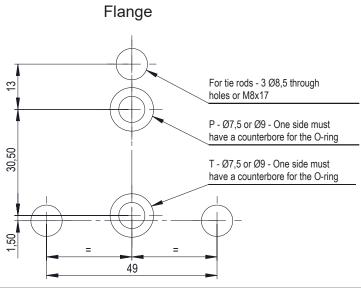
* Omit if not required. For example, to order the product without the bypass solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H4101A-S2.

The manifold will still be provided with the corrisponding cavity.

To inhibit a function, replace the related valve options with TL: eg H4101A-S2-TL.

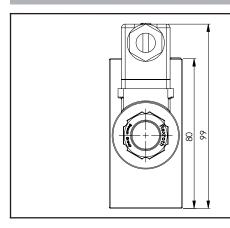
In the cavity it will be mounted a long plug.

Valve	Cavity	Long plug code
Solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000	CA-08A-2N	0489A2005600000
Pressure relief valve VMD1.040	CA-10A-2N	0489A2008500000



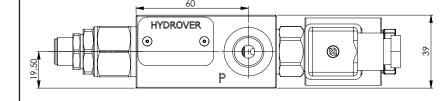


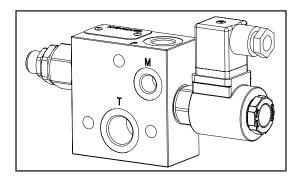
Inlet plate / relief and bypass valves / crossing holes for tie rods / 40 lpm

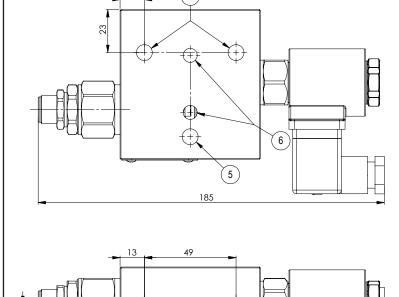


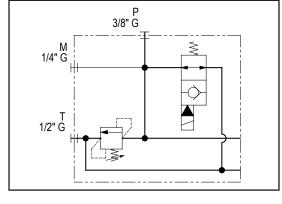
1	60 37,50 M	2 4
<u> </u>	75	3

Technical data				
Max. pressure	250 bar			
Max. flow	40 lpm *			
Weight	1,1 Kg			
Manifold material	Aluminium			
M port	1/4" G			
P port	3/8" G			
T port	1/2" G			









N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.040 *	1
2	Bosch Rexroth bypass solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000 depicted without manual override *	1
3	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
4	Connector DIN 43650 ISO 4400	1
5	Ø 8,5 through hole for tie rod	3
6	Ø 7,5 hole without counterbore for O-ring (P-T)	2
7	M8x15 thread for mounting	2

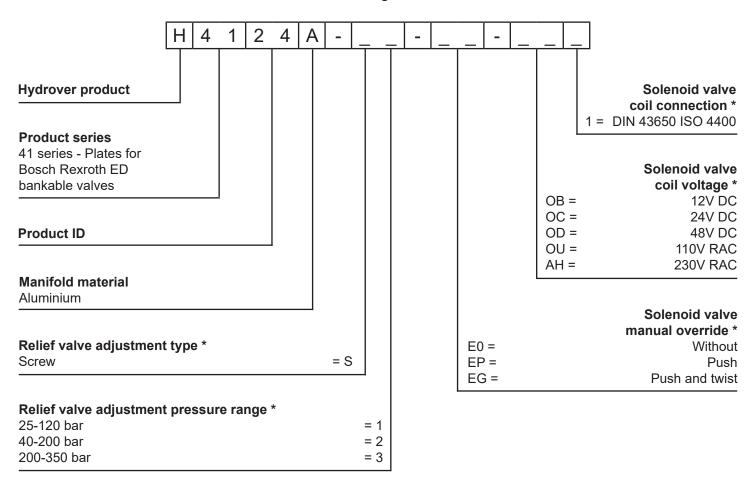
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Plates for Bosch Rexroth ED bankable valves 41 SERIES

41 SERIES **H4124**

Ordering code



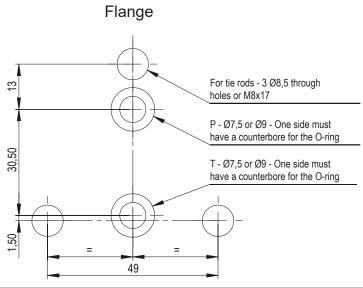
* Omit if not required. For example, to order the product without the bypass solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H4124A-S2.

The manifold will still be provided with the corrisponding cavity.

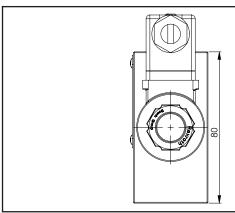
To inhibit a function, replace the related valve options with TL: eg H4124A-S2-TL.

In the cavity it will be mounted a long plug.

Valve	Cavity	Long plug code
Solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000	CA-08A-2N	0489A2005600000
Pressure relief valve VMD1.040	CA-10A-2N	0489A2008500000

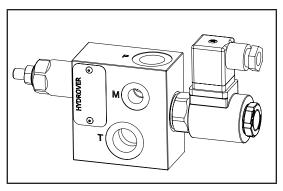


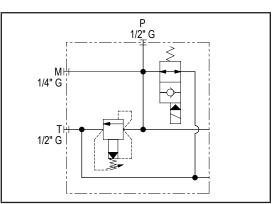
Inlet plate / relief and bypass valves / 60 lpm

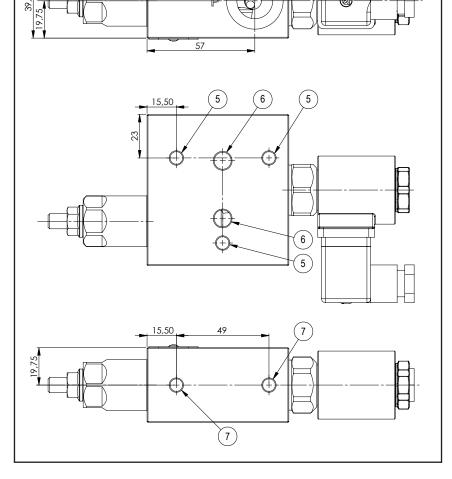


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		HYDROVER ©				-
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<u> </u>	, , , , , , , , , , , , , , , , , , ,	41 50				

Technical data				
Max. pressure	250 bar			
Max. flow	60 lpm *			
Weight	1,3 Kg			
Manifold material	Aluminium			
M port	1/4" G			
P / T ports	1/2" G			







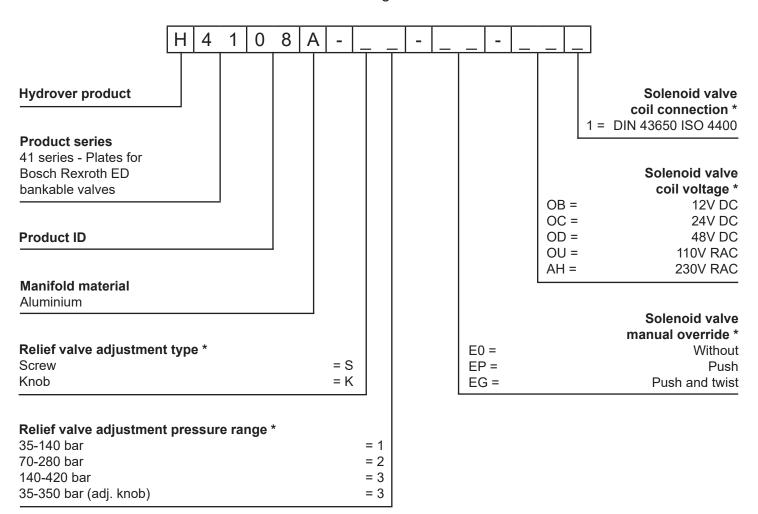
N°	Description	Q.ty
1	Bosch Rexroth relief valve VSPN-10A *	1
2	Bosch Rexroth bypass solenoid valve VEI-16-10A-NA OD.15.06.36-Y-000000 *	1
3	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
4	Connector DIN 43650 ISO 4400	1
5	M8x17 for tie rod	3
6	Ø 9 hole without counterbore for O-ring (P-T)	2
7	M8x15 thread for mounting	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



41 SERIES **H4108**

Ordering code



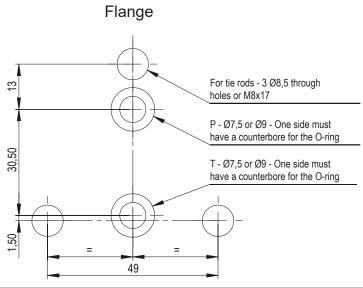
* Omit if not required. For example, to order the product without the bypass solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H4108A-S2.

The manifold will still be provided with the corrisponding cavity.

To inhibit a function, replace the related valve options with TL: eg H4108A-S2-TL.

In the cavity it will be mounted a long plug.

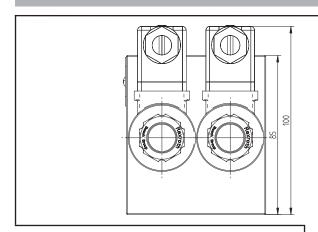
Valve	Cavity	Long plug code
Solenoid valve VEI-16-10A-NA OD.15.06.36-Y-000000	CA-10A-2N	0489A2008500000
Pressure relief valve VSPN-10A	CA-10A-2N	0489A2008500000



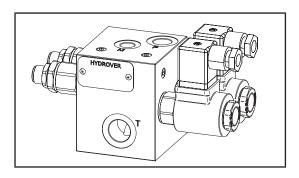


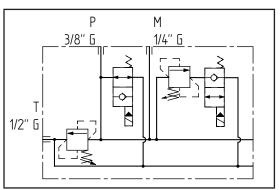
H4106

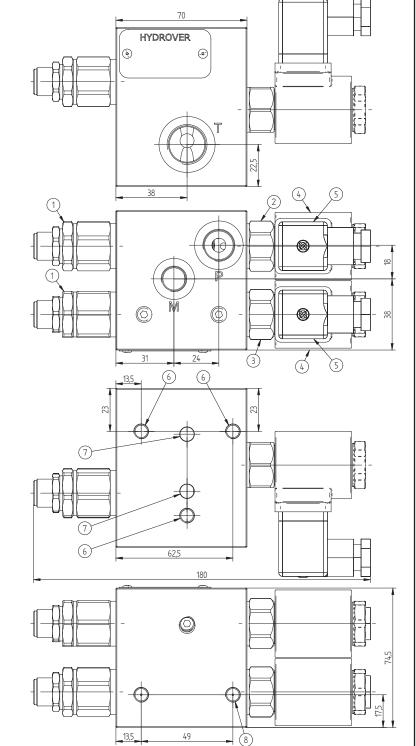
Inlet plate / double stage relief pressure control / bypass / 30 lpm



Technical data		
Max. pressure	250 bar	
Max. flow	30 lpm *	
Weight	2,9 Kg	
Manifold material	Aluminium	
M port	1/4" G	
P port	3/8" G	
T port	1/2" G	







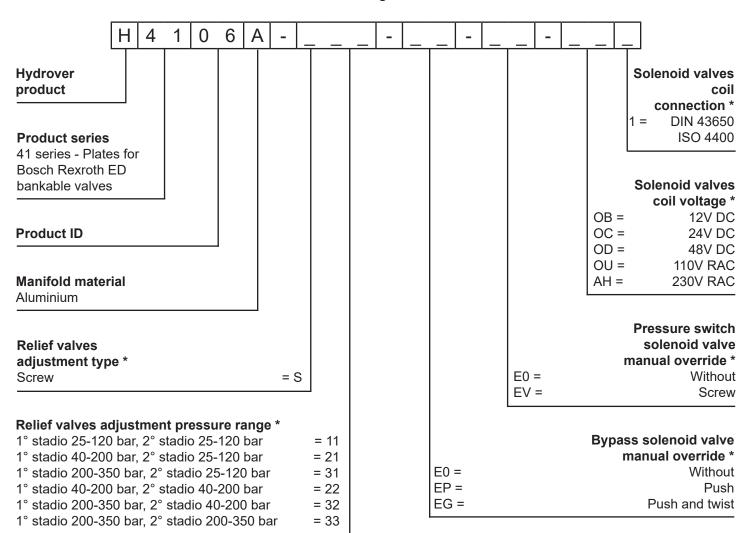
N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.025 *	2
2	Bosch Rexroth bypass solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000 *	1
3	Bosch Rexroth pressure switch solenoid valve VEI-16-08A-NC OD.15.05.18-Y-000000 *	1
4	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	2
5	Connector DIN 43650 ISO 4400	2
6	M8x17 for tie rod	3
7	Ø 7,5 hole without counterbore for O-ring (P-T)	2
8	M8x15 thread for mounting	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



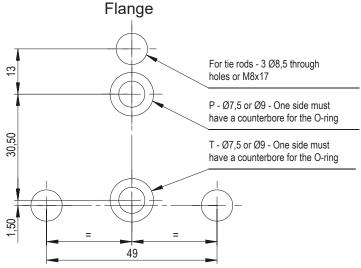
41 SERIES **H4106**

Ordering code



* Omit if not required. For example, to order the product without the bypass solenoid cartridge valve, omit the coil connection, coil voltage and manual override options: H4106A-S32-E0-OB1. The manifold will still be provided with the corrisponding cavity. To inhibit a function, replace the related valve options with TL: eg H4106A-S32-TL-E0-OB1. In the cavity it will be mounted a long plug.

Valve	Cavity	Long plug code
Solenoid valve VEI-16-08A-NA OD.15.06.18-Y-000000 / VEI-16-08A-NC OD.15.05.18-Y-000000	CA-08A-2N	0489A2005600000
Pressure relief valve VMD1.025	VMD1.025	R-800-016



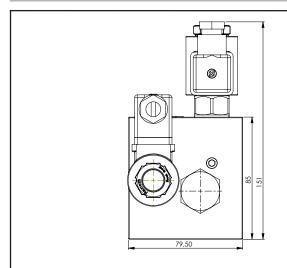


Plates for Bosch Rexroth ED bankable valves 41 SERIES Inlet plate / relief and bypass valve

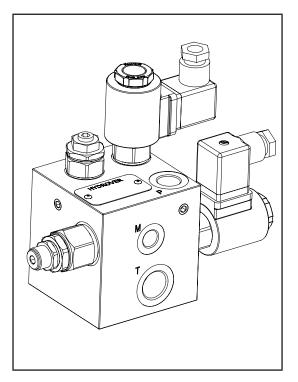
H4115

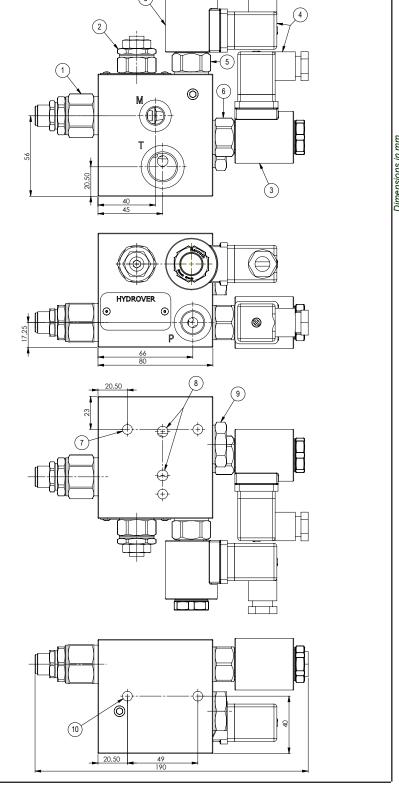
May 2025 edition

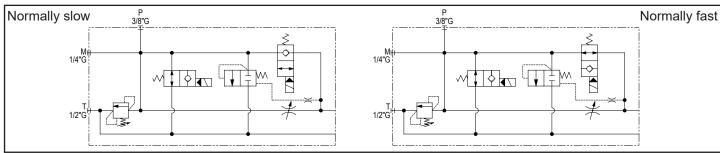
fast slow speed 3 way compensated / 40 lpm



Technical data		
Max. pressure	250 bar	
Max. flow	40 lpm	
Weight	2,4 Kg	
Manifold material	Aluminium	
M port	1/4" G	
P port	3/8" G	
T port	1/2" G	

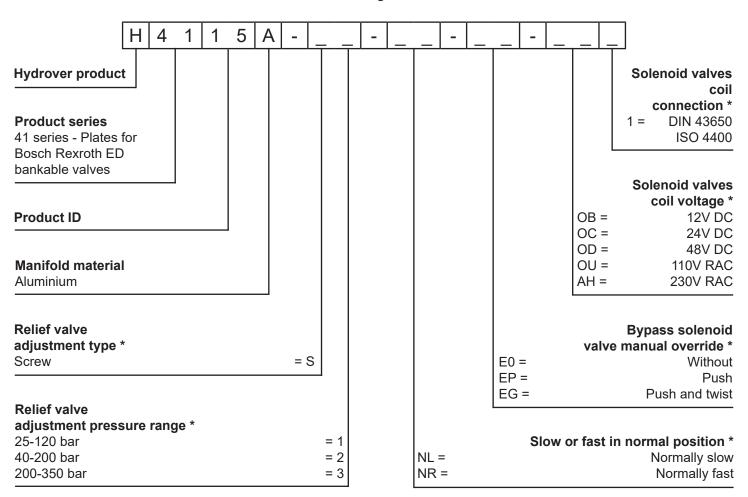






41 SERIES **H4115**

Ordering code



* Omit if not required. For example, to order the product without the fast slow solenoid cartridge valve, omit the slow or fast in normal position option: H4115A-S2-E0-OC1. The manifold will still be provided with the corrisponding cavity. To inhibit a function, replace the related valve options with TL: eg H4115A-S2-TL-E0-OC1. In the cavity it will be mounted a long plug.

Valve	Cavity	Long plug code
Solenoid valve VEI-16-08A-NA OD.15.05.18-Y-000000 or VEI-16-08A-NC OD.15.06.18-Y-000000	CA-08A-2N	0489A2005600000
Pressure relief valve VMD1.040	CA-10A-2N	0489A2008500000

N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.040 *	1
2	Bosch Rexroth bidirectional flow restrictor OD.21.01.03.56 * depicted with screw adjustment	1
3	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	2
4	Connector DIN 43650 ISO 4400	2
5	Bosch Rexroth solenoid valve for fast slow function VEI-16-08A-NC OD.15.05.18-Y-000000 (normally slow) o VEI-16-08A-NA OD.15.06.18-Y-000000 (normally fast) depicted without manual override *	1
6	Bosch Rexroth bypass solenoid valve VEI-16 OD.15.06.18-Y-000000 *	1
7	M8x17 for tie rod	3
8	Ø 7,5 hole without counterbore for O-ring (P-T)	2
9	Pressure compensator	1
10	M8x15 thread for mounting	2

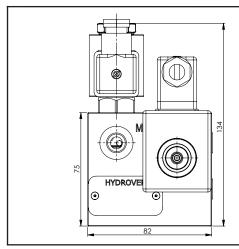
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



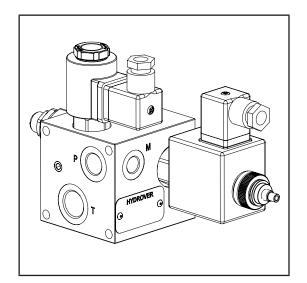
Plates for Bosch Rexroth ED bankable valves 41 SERIES Inlet plate / relief valve / bypass valve

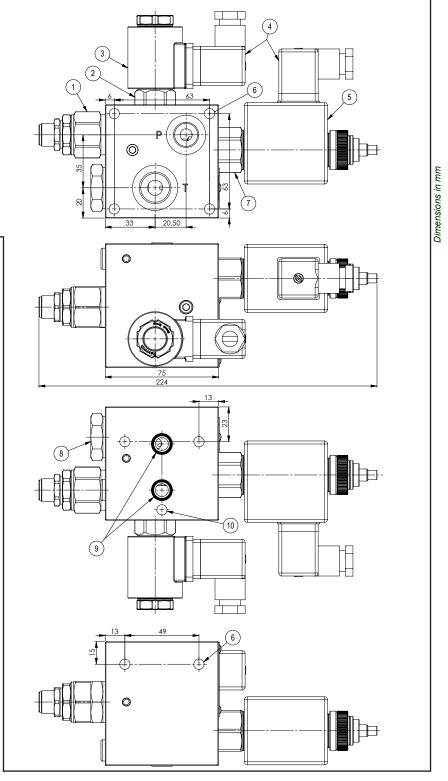
H4121

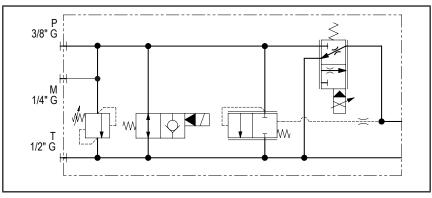
3 way compensated proportional flow regulator / 40 lpm



Technical data		
Max. pressure	250 bar	
Max. flow	50 lpm	
Max. regulated flow	40 lpm	
Weight	2,1 Kg	
Manifold material	Aluminium	
M port	1/4" G	
P port	3/8" G	
T port	1/2" G	

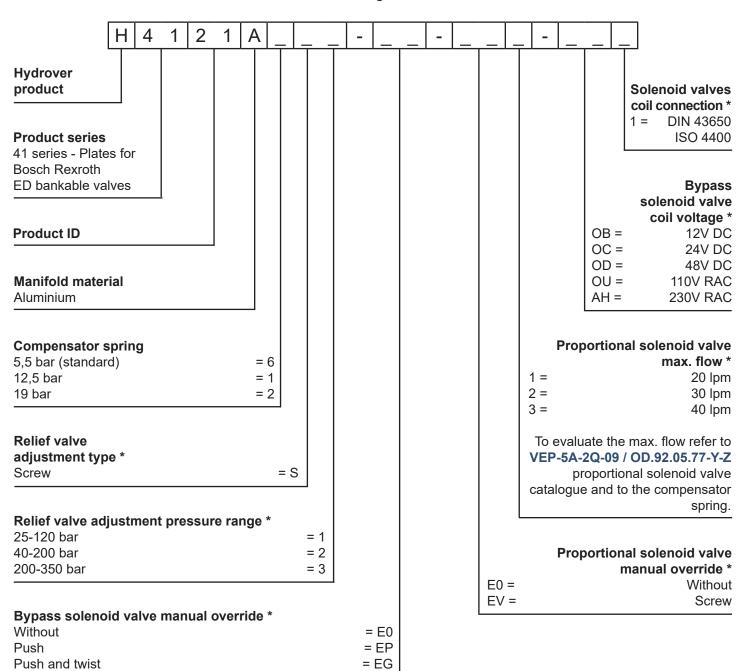






41 SERIES **H4121**

Ordering code



* Omit if not required.

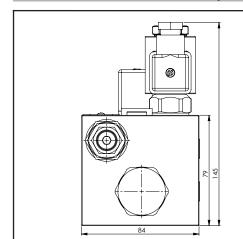
N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.040 **	1
2	Bosch Rexroth bypass solenoid valve VEI-16 OD.15.06.18-Y-000000 **	1
3	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 **	1
4	Connector DIN 43650 ISO 4400	2
5	Bosch Rexroth coil \$5-356 - CLASS H DIN 43650 ISO 4400 - 12V DC **	1
6	M8x15 thread for mounting	6
7	Bosch Rexroth proportional solenoid valve VEP-5A-2Q-09 / OD.92.05.77-Y-Z **	1
8	Compensator	1
9	Ø 9 hole with OR 2043 i. Ø 10,82 cross section 1,78 (P-T)	2
10	M8x17 for tie rod	3

^{**} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

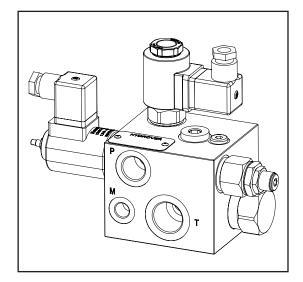


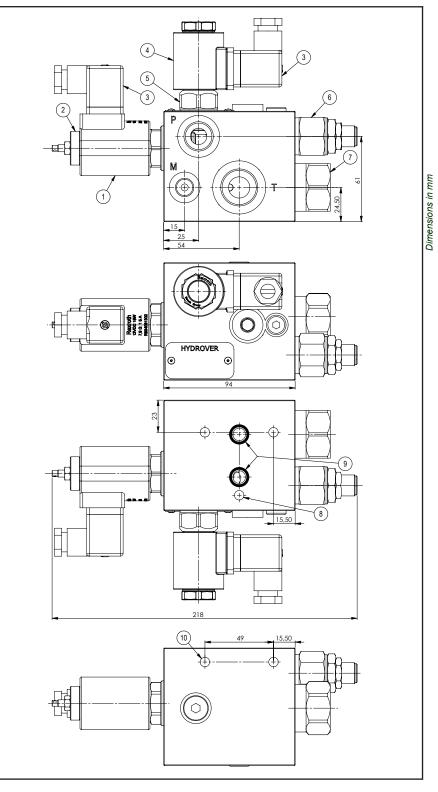
Inlet plate / relief valve / bypass valve 3 way compensated proportional flow regulator / 60 lpm

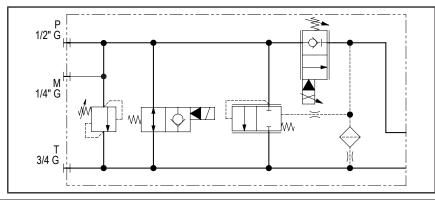
H4122



Technical data		
Max. pressure	250 bar	
Max. flow	60 lpm	
Weight	2,8 Kg	
Manifold material	Aluminium	
M port	1/4" G	
P port	1/2" G	
T port	3/4" G	



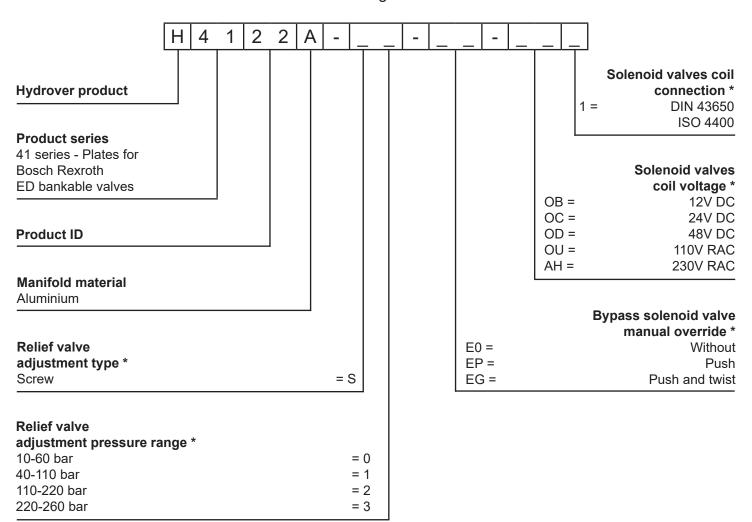






41 SERIES **H4122**

Ordering code



* Omit if not required. For example, to order the product without the relief valve, omit the relief valve adjustment type and pressure range options: H4122A-E0-OB1. The manifold will still be provided with the corrisponding cavity. To inhibit a function, replace the related valve options with TL: eg H4122A-TL-E0-OB1. In the cavity it will be mounted a long plug.

Valve	Cavity	Long plug code
Solenoid valve VEI-16-10A-NA OD.15.06.36-Y-000000	CA-10A-2N	0489A2008500000
Pressure relief valve VMD1.070	CA-10A-2N	0489A2008500000

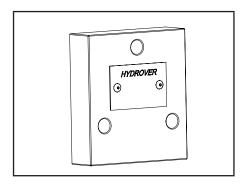
N°	Description	Q.ty
1	Bosch Rexroth coil R7 - CLASS H DIN 43650 ISO 4400 - Only 12V DC *	1
2	Bosch Rexroth proportional solenoid valve VEPN-12A OD.95.06.89.72.00.00 *	1
3	Connector DIN 43650 ISO 4400	2
4	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
5	Bosch Rexroth bypass solenoid valve VEI-16-10A-NA OD.15.06.36-Y-000000 *	1
6	Bosch Rexroth relief valve VMD1.070 *	1
7	Compensator	1
8	M8x17 for tie rod	3
9	Ø 9 hole with OR 2043 i. Ø 10,82 cross section 1,78 (P-T)	2
10	M8x15 thread for mounting	2

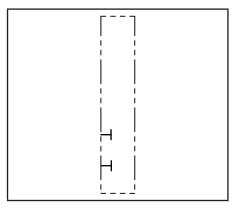
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

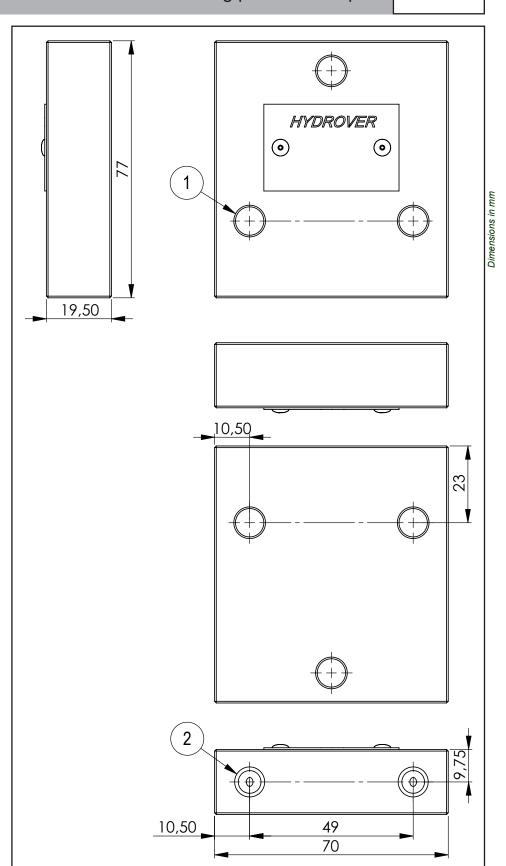
Closing plate without ports

H4114

Technical data		
Max. pressure	250 bar	
Weight	0,3 Kg	
Manifold material	Aluminium	



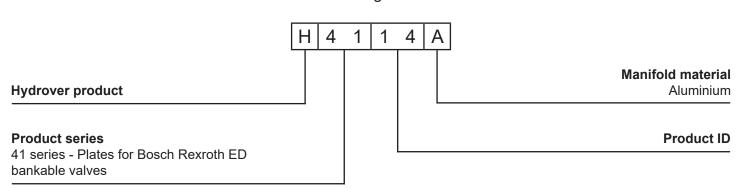


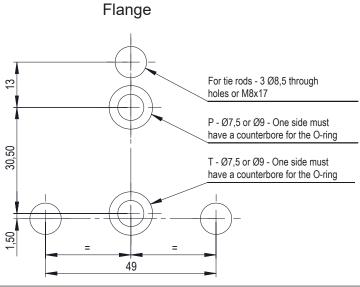


N°	Description	Q.ty
1	Ø 8,5 through hole for tie rod	3
2	M8x15 thread for mounting	2



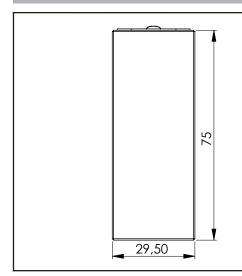
41 SERIES **H4114**



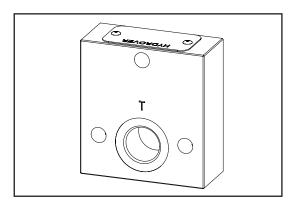


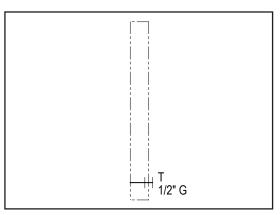
Closing plate with T port without OR

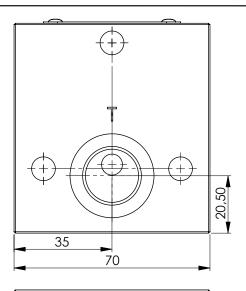
H4123



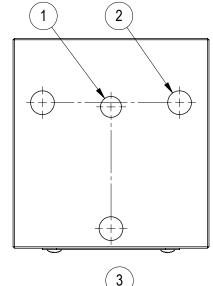
Technical data		
Max. pressure	250 bar	
Weight	0,4 Kg	
Manifold material	Aluminium	
T port	1/2" G	

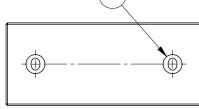








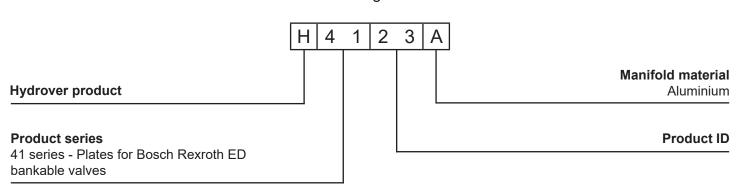


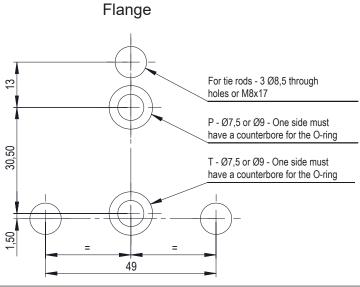


N°	Description	Q.ty
1	T Ø 9 with OR 2043 i. Ø 10,82 cross section 1,78	1
2	Ø 8,5 through hole for tie rod	3
3	M8x15 thread for mounting	2



41 SERIES **H4123**

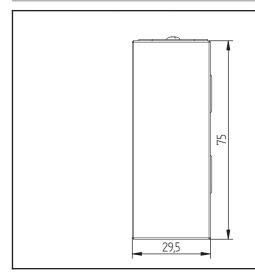






Closing plate with T port and OR

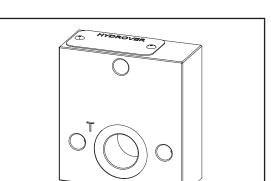
H4102

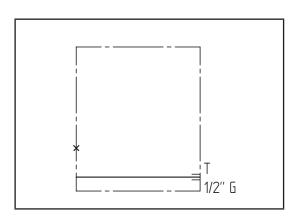


HYDROVER

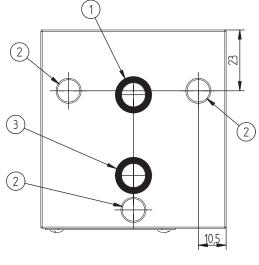
	35
20,5	
	70

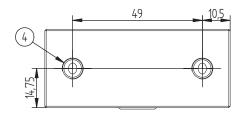
Technical data	
Max. pressure	250 bar
Weight	0,4 Kg
Manifold material	Aluminium
T port	1/2" G







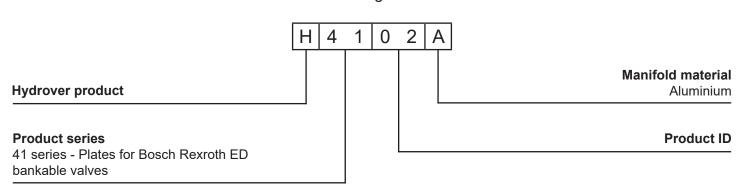


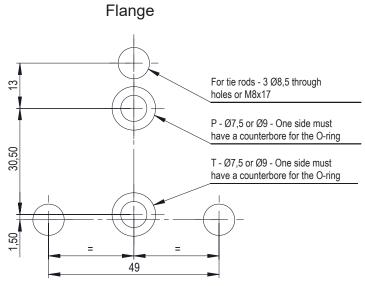


N°	Description	Q.ty
1	T Ø 9 with OR 2043 i. Ø 10,82 cross section 1,78	1
2	Ø 8,5 through hole for tie rod	3
3	Closed P with OR 2043 i. Ø 10,82 cross section 1,78	1
4	M8x15 thread for mounting	2



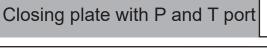
41 SERIES **H4102**

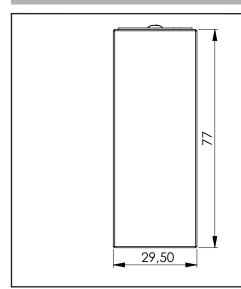






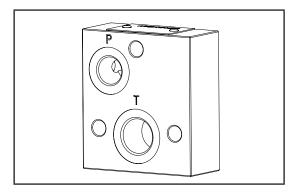
H4116

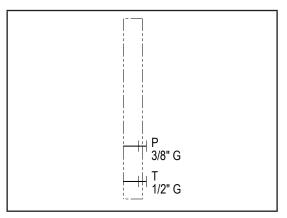


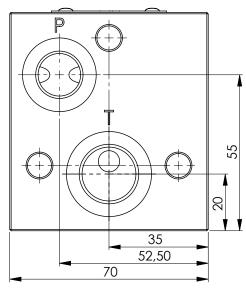


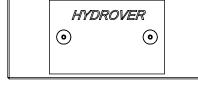
HYDROUER

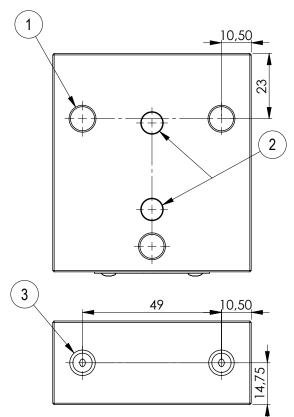
Technical data	
Max. pressure	250 bar
Weight	0,4 Kg
Manifold material	Aluminium
P port	3/8" G
T port	1/2" G







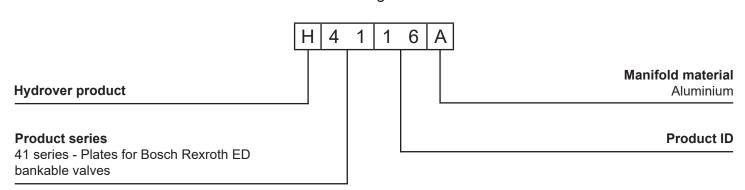


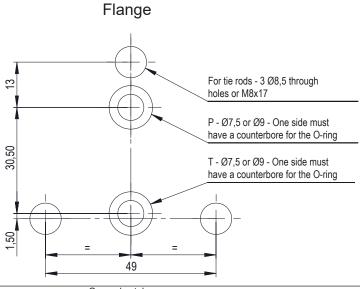


N°	Description	Q.ty
1	Ø 8,5 through hole for tie rod	3
2	Ø 7,5 hole without counterbore for O-ring (P-T)	
3	M8x15 thread for mounting	2



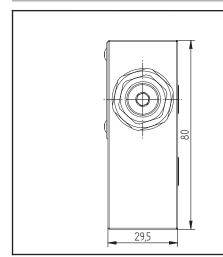
41 SERIES **H4116**





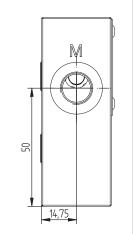
Closing plate / relief valve / 30 lpm



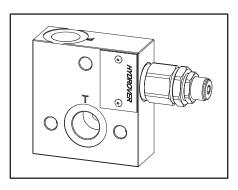


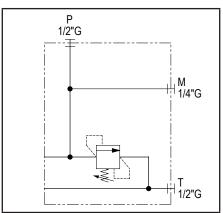
HYDROVER

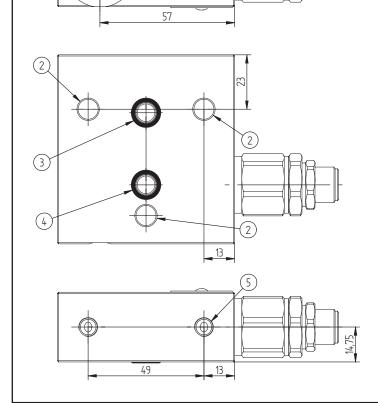
7	5	1
	HYDROVER O O	24.5
	37,5	



Technical data		
Max. pressure	250 bar	
Max. flow	25 lpm *	
Weight	0,6 Kg	
Manifold material	Aluminium	
M port	1/4" G	
P / T ports	1/2" G	







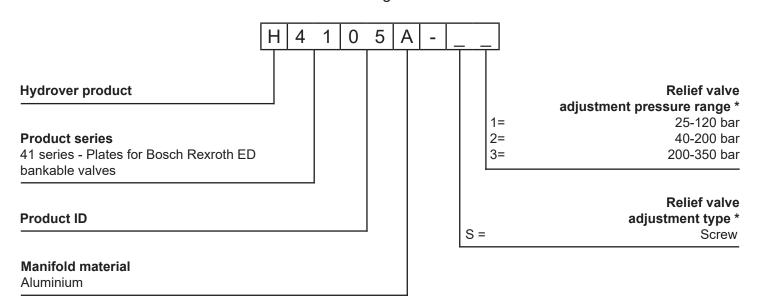
N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.025 *	1
2	Ø 8,5 through hole for tie rod	3
3	P Ø 7,5 con OR 2037 i. Ø 9,25 cross section 1,78	
4	T Ø 7,5 con OR 2037 i. Ø 9,25 cross section 1,78	1
5	M8x15 thread for mounting	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



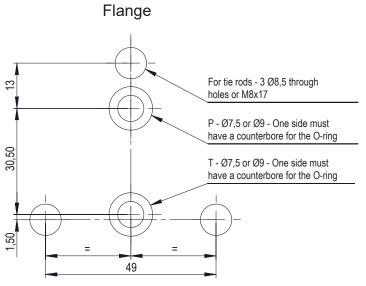
41 SERIES **H4105**

Ordering code



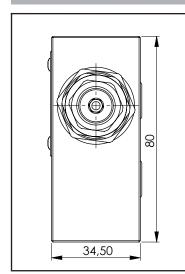
^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the adjustment type and pressure range options: H4105A.

The manifold will still be provided with the corrisponding cavity.



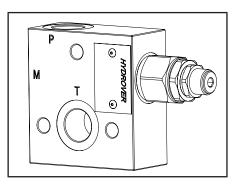
Closing plate / relief valve / 40 lpm

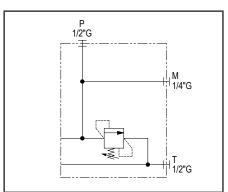
H4117

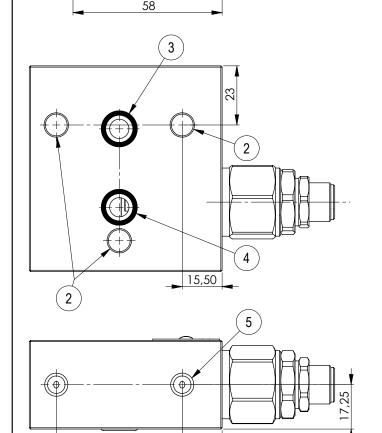


M
1 40 •

Technical data	
Max. pressure	250 bar
Max. flow	40 lpm *
Weight	0,7 Kg
Manifold material	Aluminium
M port	1/4" G
P / T ports	1/2" G







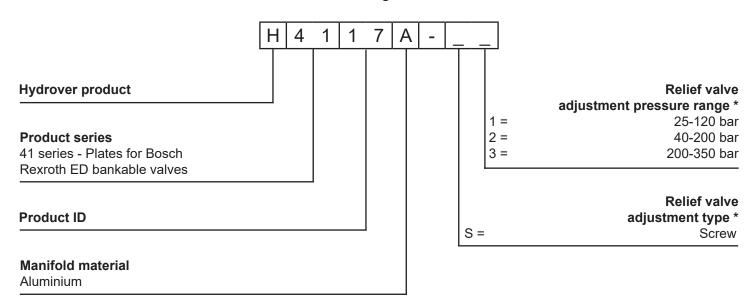
N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.040 *	1
2	Ø 8,5 through hole for tie rod	3
3	Ø 9 P with OR 2043 i. Ø 10,82 cross section 1,78	1
4	Ø 9 T with OR 2043 i. Ø 10,82 cross section 1,78	1
5	M8x15 thread for mounting	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



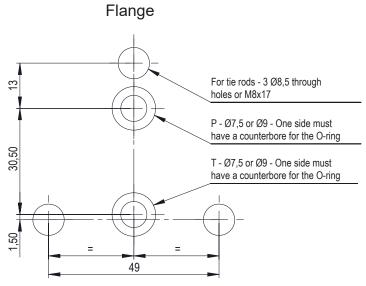
41 SERIES **H4117**

Ordering code



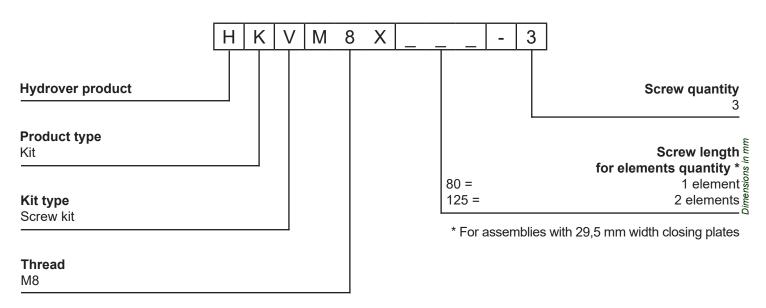
^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the adjustment type and pressure range options: H4117A.

The manifold will still be provided with the corrisponding cavity.

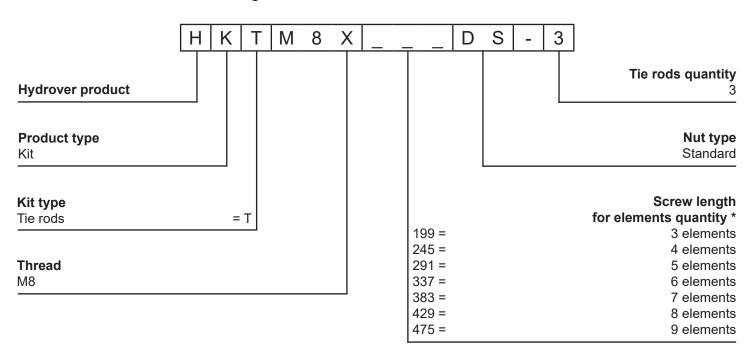




Ordering code for assemblies with 1 or 2 elements



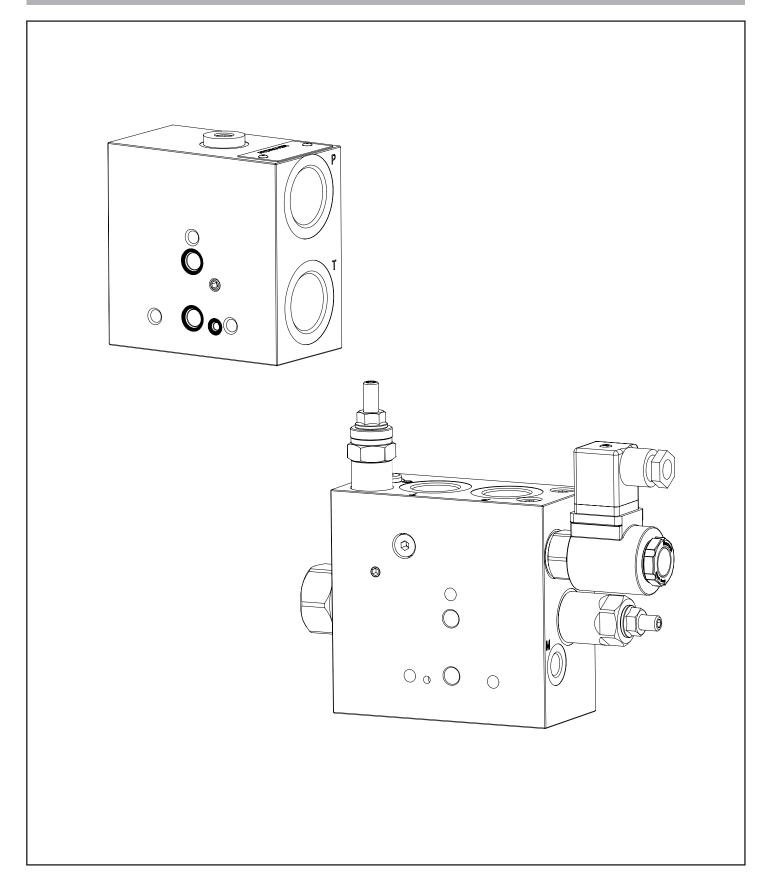
Ordering code for assemblies with 3 or 9 elements



^{*} For assemblies with 29,5 mm width closing plates



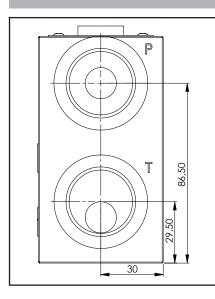
42 SERIES Load sensing plates for Bosch Rexroth ED bankable valves

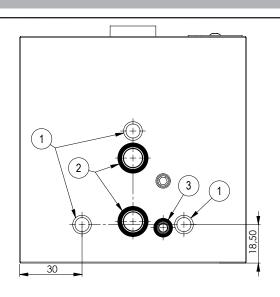


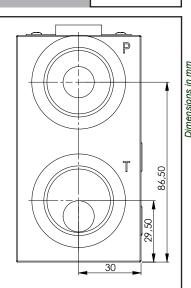


Intermediate load sensing inlet ED plate / dual side P-T ports 1" G

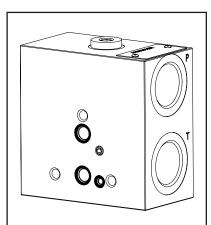
H4201

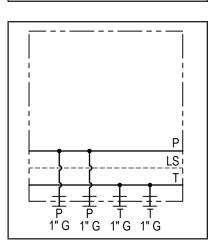


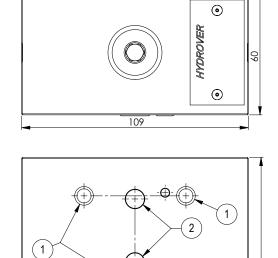


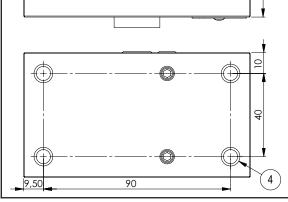


Technical data		
Max. pressure	350 bar	
Weight	4,7 Kg	
Manifold material	Steel	
Double P T ports	1" G	





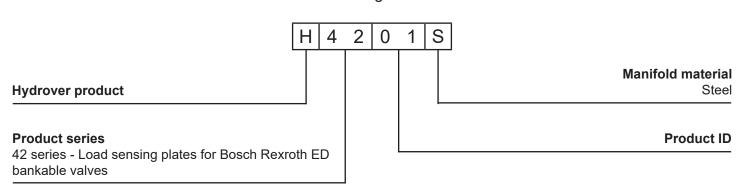


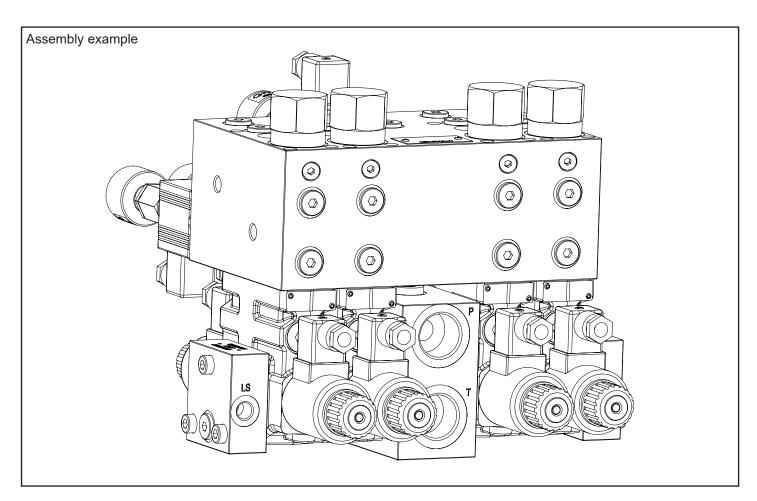


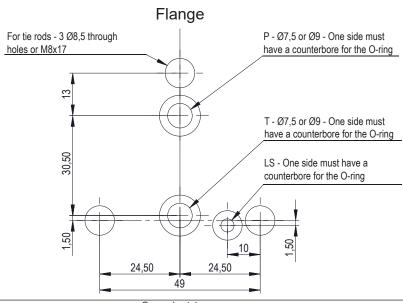
N°	Description	Q.ty
1	M8x17 for tie rod	6
2	Ø 9 through hole with counterbore on one side for OR 2043 i. Ø 5,28 cross section 1,78 (P-T)	2
3	LS through hole with counterbore on one side for OR 2021 i. Ø 10,82 cross section 1,78	1
4	M8x15 thread for mounting	4



42 SERIES **H4201**

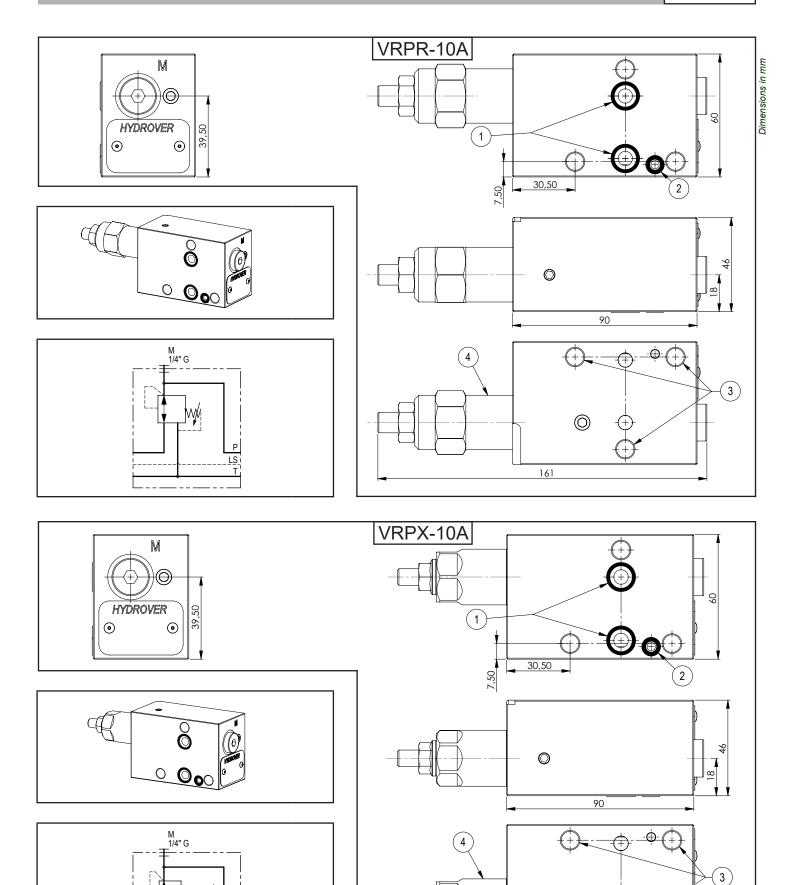






Intermediate element with pressure reducing valve on P

H4207

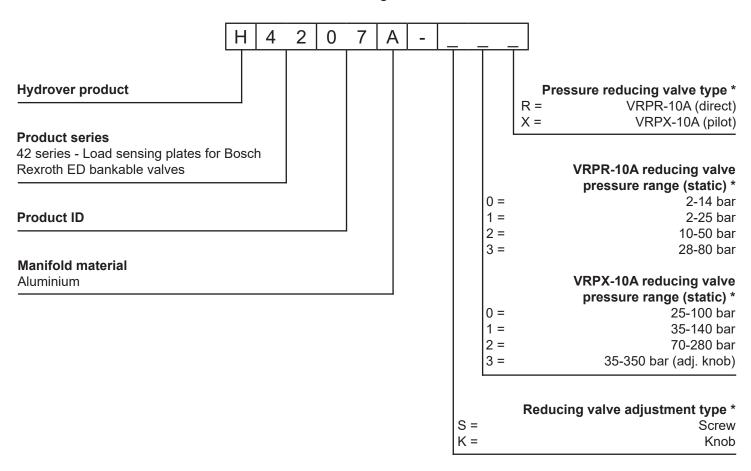


147



42 SERIES **H4207**

Ordering code



^{*} Omit if not required. To order the product without the reducing cartridge valve, omit the adjustment type, pressure range and valve type options: H4207A.

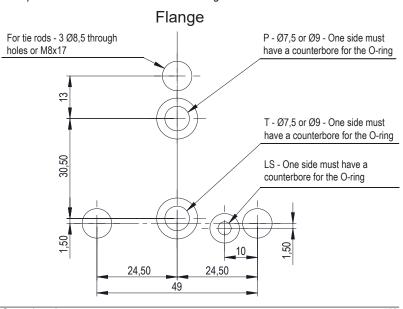
The manifold will still be provided with the corrisponding cavity.

N°	Description	Q.ty
1	Ø 7,5 hole with OR 2043 i. Ø 10,82 cross section 1,78 (P-T)	2
2	LS through hole with counterbore on one side for OR 2021 i. Ø 5,28 cross section 1,78	1
3	Ø 8,5 through hole for tie rod	3
4	Bosch Rexroth reducing valve VRPR-10A o VRPX-10A * depicted with screw adjustment	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

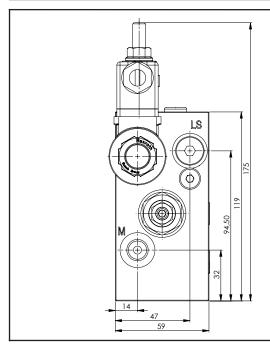
Technical data		
Max. pressure	250 bar	
Max. flow with VRPR-10A	25 lpm *	
Max. flow with VRPX-10A	55 lpm *	
Weight	0,7 Kg	
Manifold material	Aluminium	

Can be used with LS or non LS elements.



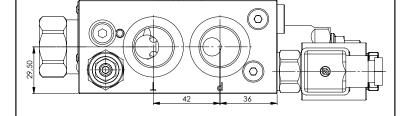
Intermediate load sensing inlet ED plate 3 way compensated variable delta P / relief valve / bypass valve / P-T ports 3/4" G

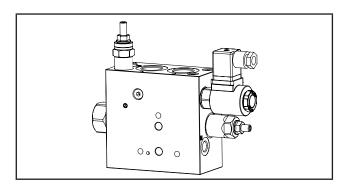
H4206

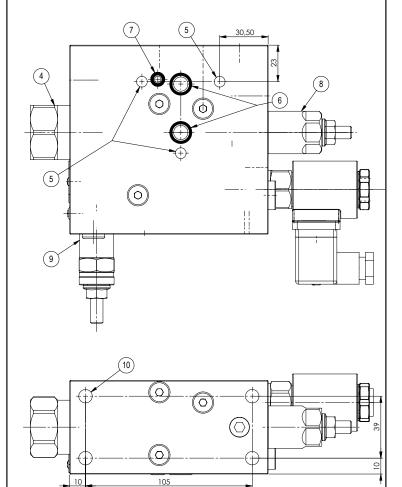


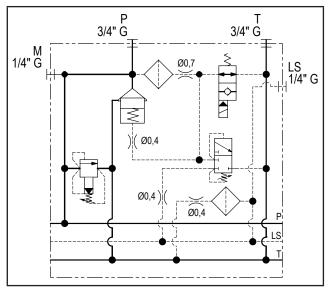
125	

Technical data		
Max. pressure	350 bar	
Max. flow	90 lpm	
Weight	6,7 Kg	
Manifold material	Steel	
Ports M LS	1/4" G	
Ports P T	3/4" G	





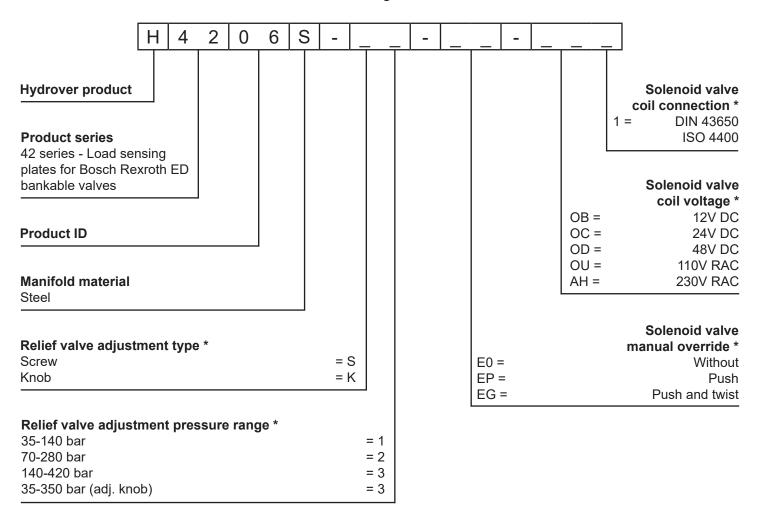






42 SERIES **H4206**

Ordering code



* Omit if not required. For example, to order the product without the relief valve, omit the relief valve adjustment type and pressure range options: H4206S-E0-OC1. The manifold will still be provided with the corrisponding cavity. To inhibit a function, replace the related valve options with TL: eg H4206S-TL-E0-OC1. In the cavity it will be mounted a long plug.

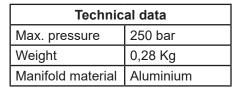
Valve	Cavity	Long plug code
Solenoid valve VEI-16-10A-NA OD.15.06.36-Y-000000	CA-08A-2N	0489A2005600000
Pressure relief valve VSPN-10A	CA-10A-2N	0489A2008500000

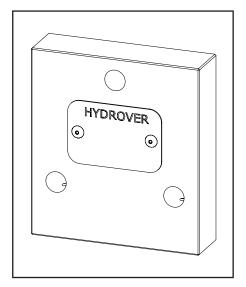
N°	Description	Q.ty
1	Bosch Rexroth bypass solenoid valve VEI-16-10A-NA OD.15.06.36-Y-000000 **	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 **	1
3	Connector DIN 43650 ISO 4400	1
4	Pressure compensator	1
5	M8x12 for tie rod	6
6	Ø 9 through hole with counterbore on one side for OR 2043 i. Ø 10,82 cross section 1,78 (P-T)	2
7	LS hole with counterbore on one side for OR 2021 i. Ø 5,28 cross section 1,78	1
8	Bosch Rexroth relief valve VSPN-10A** depicted with screw adjustment	1
9	Bosch Rexroth valve VDP32-07A-03-A for pressure drop regulation from 10 to 30 bar	1
10	M10x15 for mounting	4

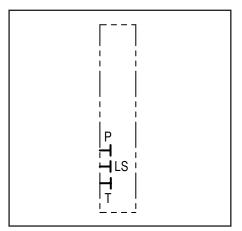
^{**} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

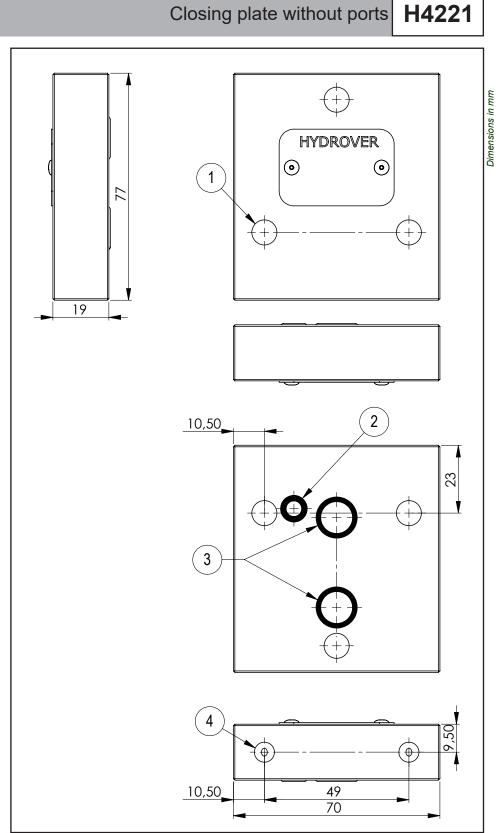


Closing plate without ports







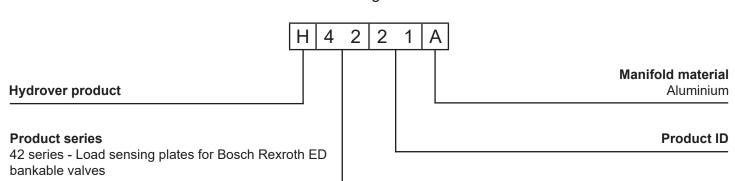


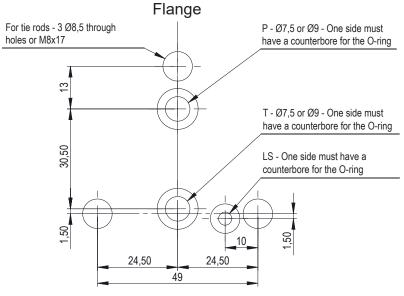
N°	Description	Q.ty
1	Ø 8,5 through hole for tie rod	3
2	OR 2021 i. Ø 5,28 cross section 1,78 (LS)	1
3	OR 2043 i. Ø 10,82 cross section 1,78 (P-T)	2
4	M8x15 thread for mounting	2



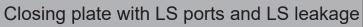
Load sensing plates for Bosch Rexroth ED bankable valves 42 SERIES

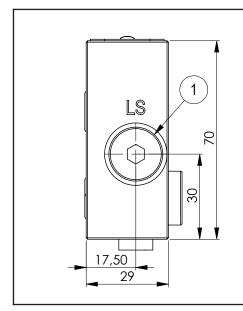
42 SERIES **H4221**

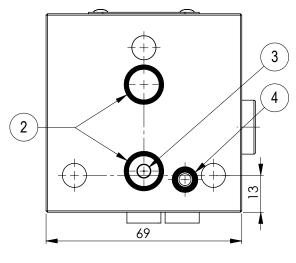




H4202





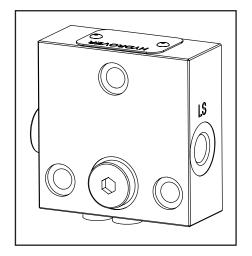


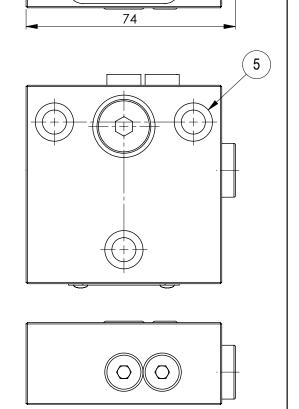
HYDROVER

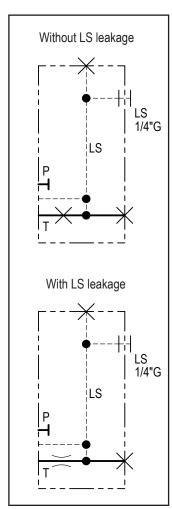
•

LS	30
17,50	-

Technical data		
Max. pressure	350 bar	
Weight	1 Kg	
Manifold material	Steel	
LS ports	1/4" G	



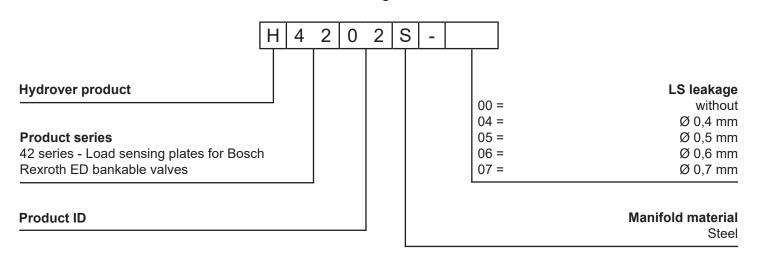


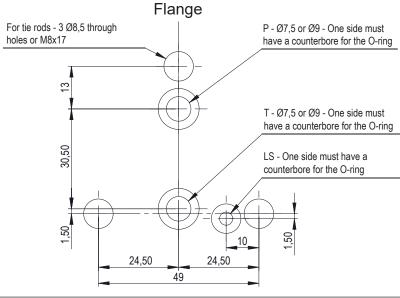


N°	Description	Q.ty
1	TPCLG 1/4"G plug on LS	1
2	OR 2043 i. Ø 10,82 cross section 1,78 (P-T)	2
3	TPCN 6 conical plug or flow restrictor for LS leakage	1
4	OR 2021 i. Ø 5,28 cross section 1,78 (LS)	1
5	Ø 8,5 through hole for tie rod with counterbore Ø 13,5↓ 2	3



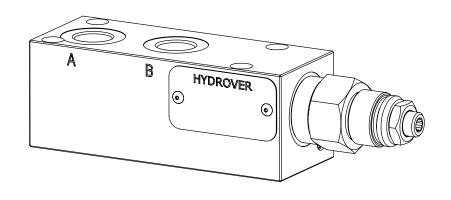
42 SERIES **H4202**

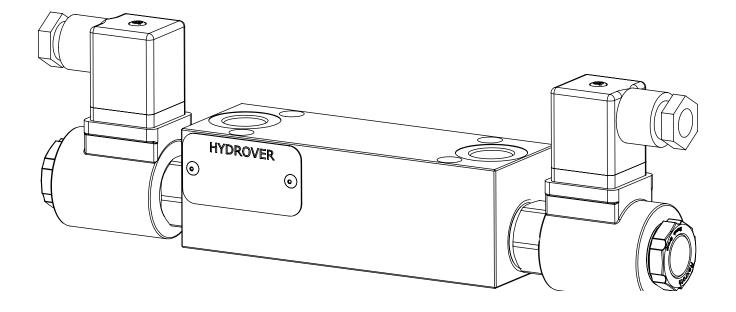






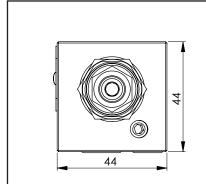
48 SERIES Flangeable elements for Bosch Rexroth EDC bankable valves





H4803

EDC flangeable element with counterbalance valve on B / 30 lpm

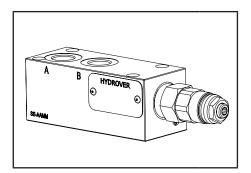


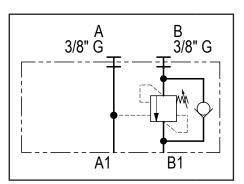
HYDROUER

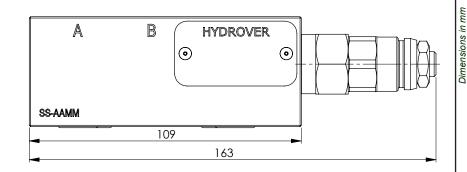
Technical data			
Max. pressure	250 bar		
Max. flow	30 lpm *		
Pilot ratio	4:1		
Weight	0,7 Kg		
Manifold material	Aluminium		

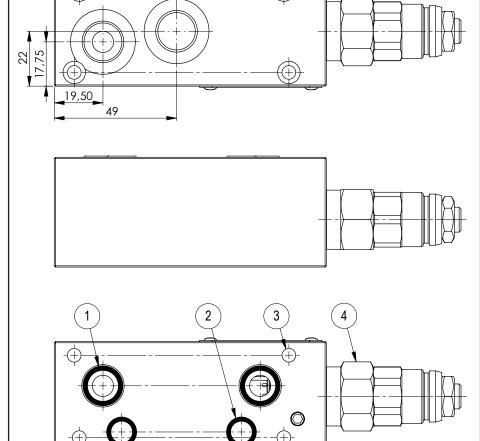
A / B ports

3/8" G









N°	Description	Q.ty
1	OR 2050 i. Ø 12,42 cross section 1,78	2
2	OR 108 i. Ø 8,73 cross section 1,78	2
3	Ø 5,5 through hole with counterbore for mounting	4
4	Bosch Rexroth counterbalance valve VBSN-08AA *	1

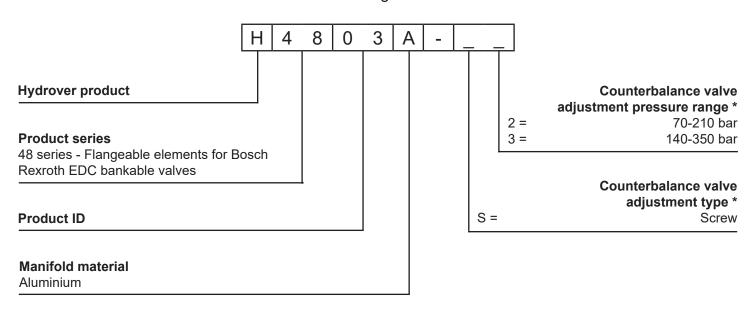
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Flangeable elements for Bosch Rexroth EDC bankable valves 48 SERIES

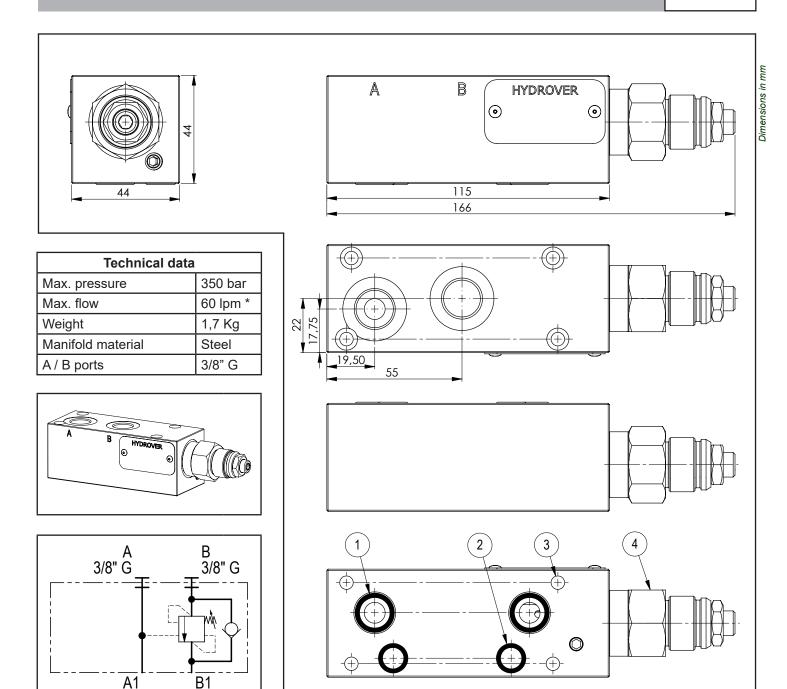
48 SERIES **H4803**

Ordering code



* Omit if not required. The manifold will still be provided with the corrisponding cavity.

EDC flangeable element with counterbalance valve on B / 60 lpm



N°	Description	Q.ty
1	Bosch Rexroth counterbalance valve VBSN-10A *	1
2	Ø 5,5 through hole with counterbore for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	2
4	OR 2050 i. Ø 12,42 cross section 1,78	2

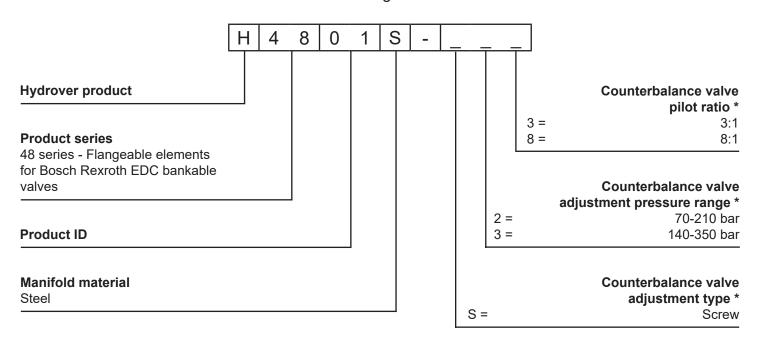
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Flangeable elements for Bosch Rexroth EDC bankable valves 48 SERIES

48 SERIES **H4801**

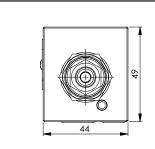
Ordering code



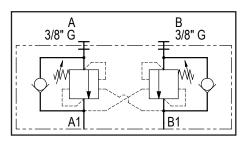
* Omit if not required. The manifold will still be provided with the corrisponding cavity.



EDC flangeable element with counterbalance valve on A and B / 30 lpm

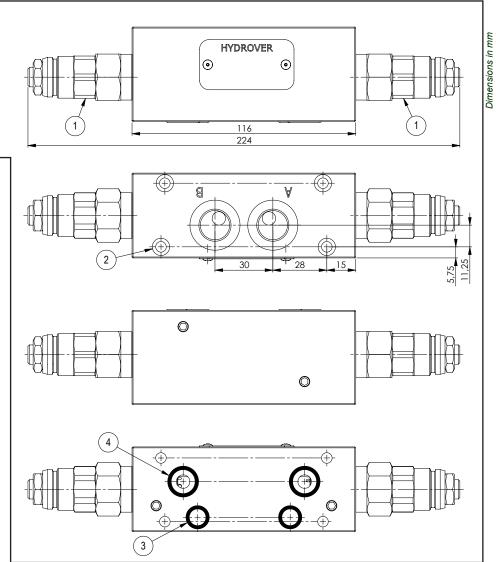


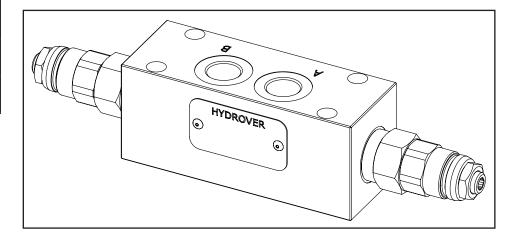
Technical data		
Max. pressure	250 bar	
Max. flow	30 lpm *	
Pilot ratio	4:1	
Weight	1 Kg	
Manifold material	Aluminium	
A / B ports	3/8" G	



N°	Description	Q.ty
1	Bosch Rexroth counterbalance valve VBSN-08AA *	2
2	Ø 5,5 through hole with counterbore for mounting	4
3	OR 108 i. Ø 8,73 cross section 1,78	2
4	OR 2050 i. Ø 12,42 cross section 1,78	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



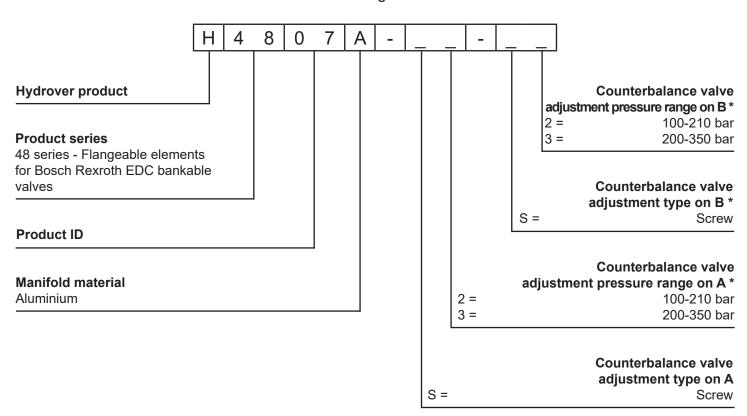




Flangeable elements for Bosch Rexroth EDC bankable valves 48 SERIES

48 SERIES **H4807**

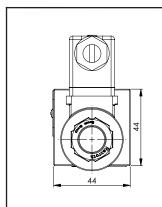
Ordering code



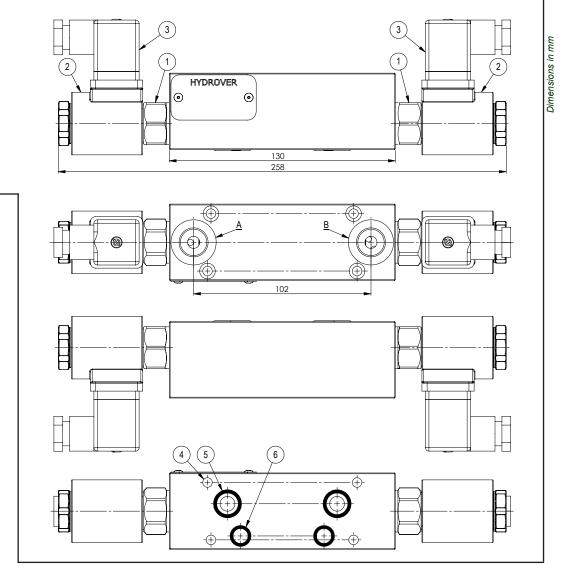
^{*} Omit if not required. To order the product without the counterbalance cartridge valves, omit the adjustment type and pressure range options on A e B: H4807A.

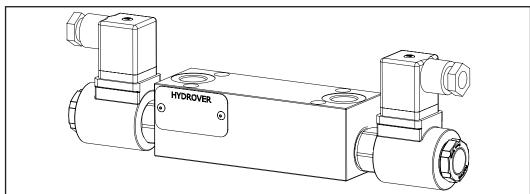
The manifold will still be provided with the corrisponding cavities.

EDC flangeable element with poppet type solenoid operated directional valves between A and A1 / B and B1



Technical data		
Max. pressure	250 bar	
Max. flow	40 lpm *	
Weight	1,4 Kg	
Manifold material	Aluminium	
A / B ports	3/8" G	

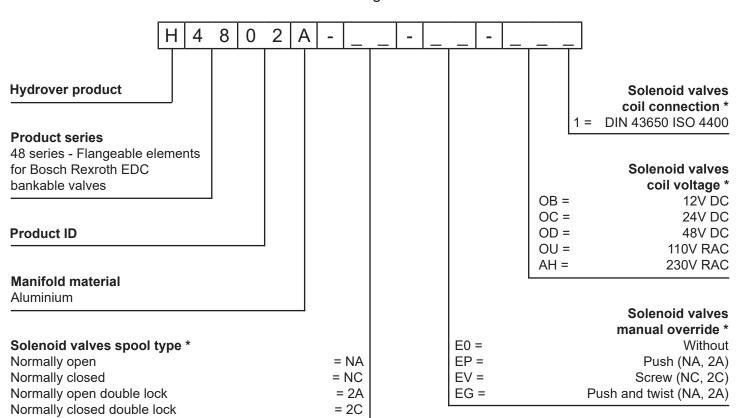




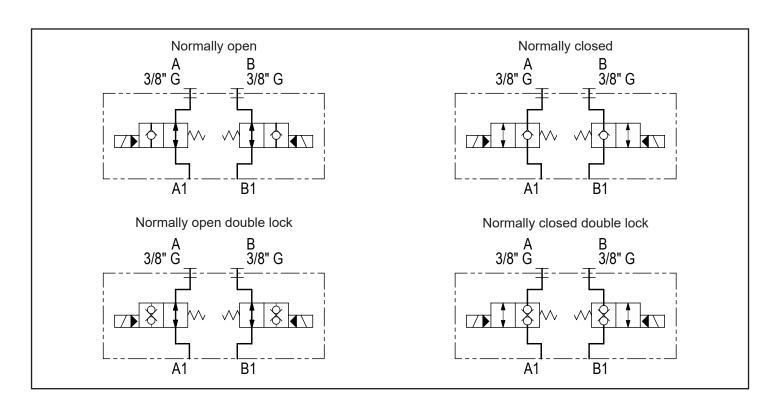
N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-08A-NC OD.15-X-18-Y-000000 (normally closed) or VEI-16-08A-NA OD.15-X-18-Y-000000 (normally open) depicted without manual override *	2
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	2
3	Connector DIN 43650 ISO 4400	2
4	Ø 5,5 through hole for mounting	4
5	OR 2050 i. Ø 12,42 cross section 1,78	2
6	OR 108 i. Ø 8,73 cross section 1,78	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

Ordering code

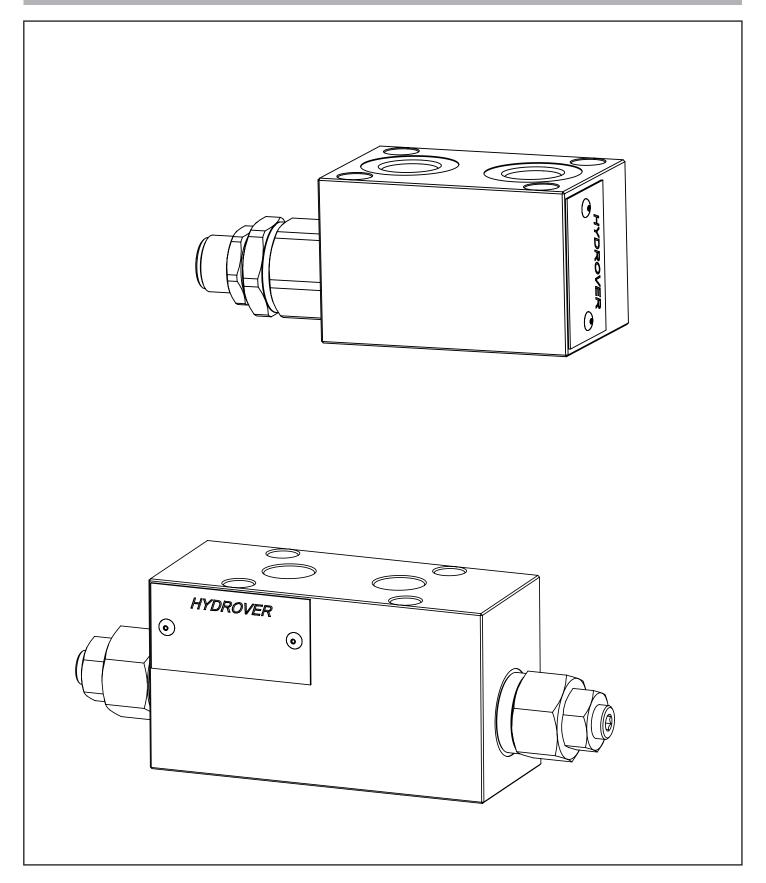


* Omit if not required. For example to order the product without the coils, omit the solenoid valves coil voltage and coil connection options: H4802A-NC-E0.



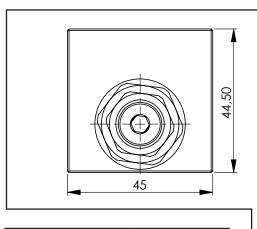


49 SERIES Flangeable elements for Bosch Rexroth ED bankable valves

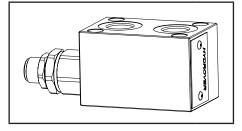


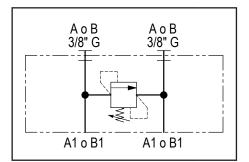


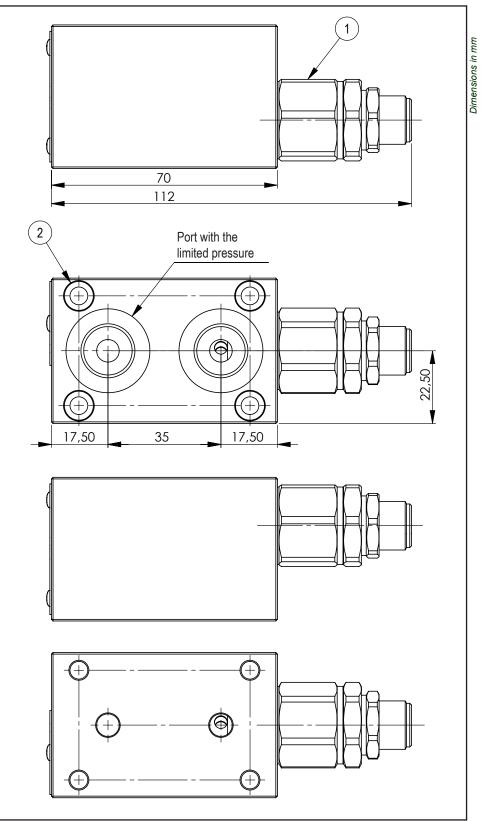
ED flangeable valve with relief valve on A or B



Technical data		
Max. pressure	250 bar	
Max. flow	25 lpm *	
Weight	0,5 Kg	
Manifold material	Aluminium	
A / B ports	3/8" G	







N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.025 *	1
2	Ø 5,5 through hole with counterbore for mounting	4

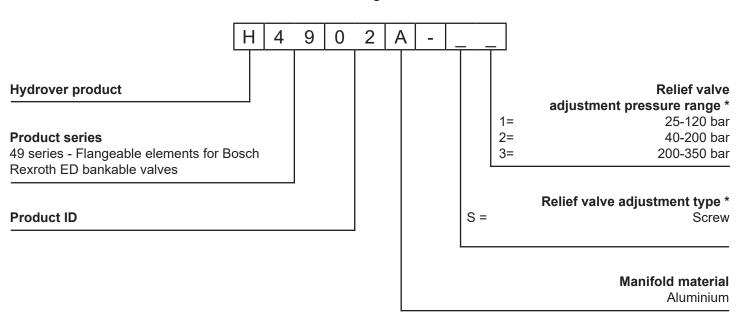
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Flangeable elements for Bosch Rexroth ED bankable valves 49 SERIES

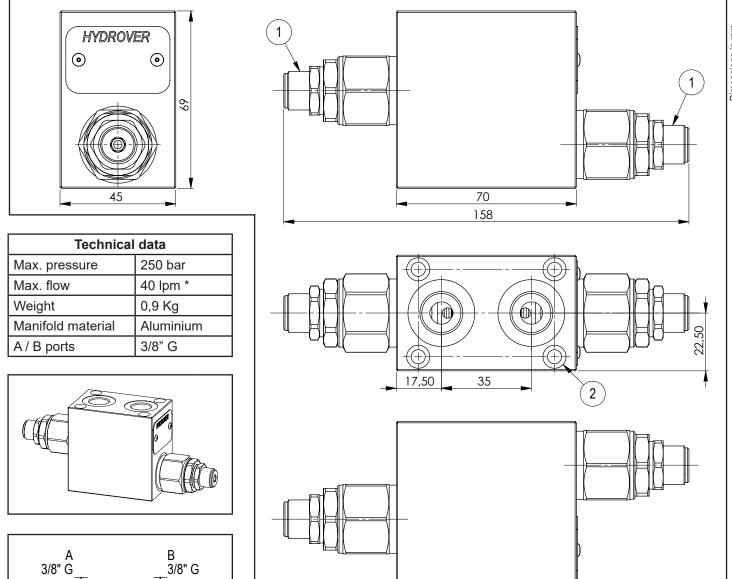
49 SERIES **H4902**

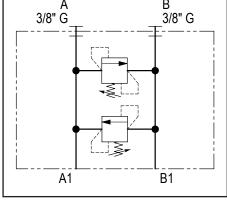
Ordering code

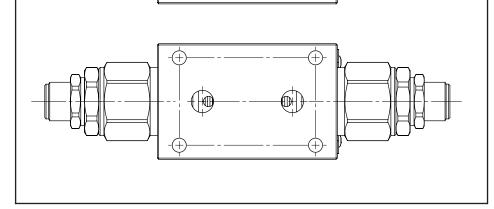


* Omit if not required. The manifold will still be provided with the corrisponding cavity.

ED flangeable element with relief valve on A and B







	N°	Description	Q.ty
ſ	1	Bosch Rexroth relief valve VMD1.040 *	2
Γ	2	Ø 5,5 through hole with counterbore for mounting	4

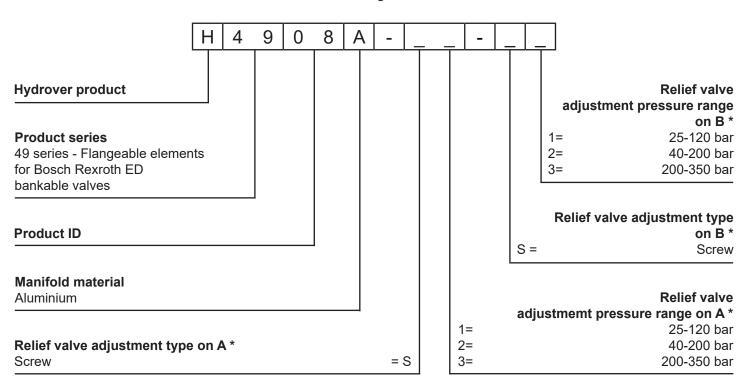
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Flangeable elements for Bosch Rexroth ED bankable valves 49 SERIES

49 SERIES **H4908**

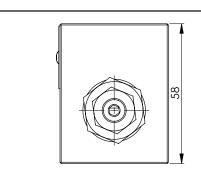
Ordering code



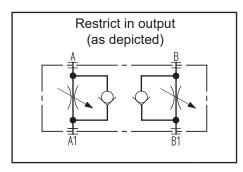
* Omit if not required. The manifold will still be provided with the corrisponding cavity.

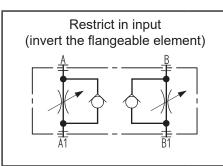


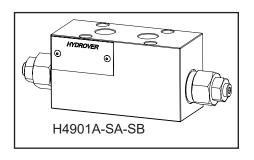
ED flangeable valve with unidirectional flow restrictors on A / B / A and B

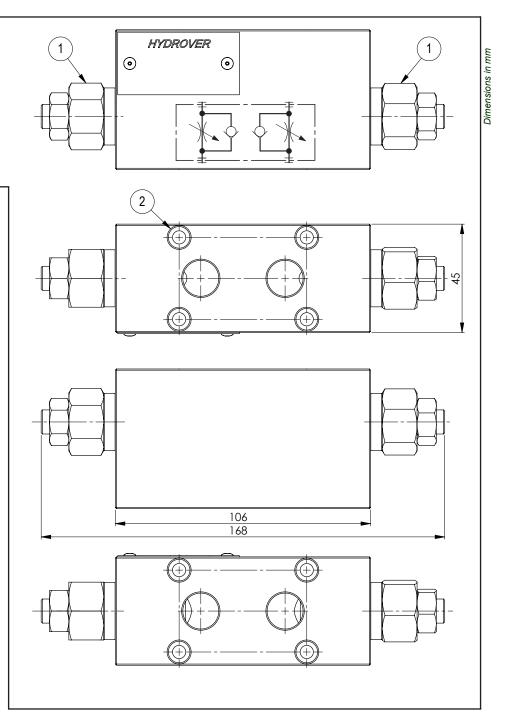


Technical data		
Max. pressure	250 bar	
Max. flow	40 lpm *	
Weight with 1 valve	0,9 Kg	
Weight with 2 valves	1 Kg	
Manifold material	Aluminium	
Bottom and top A / B ports	3/8" G	









N°	Description	Q.ty
1	Bosch Rexroth unidirectional flow restrictor STVU-08A * depicted with screw adjustment	1/2
2	Ø 5,5 through hole with counterbore for mounting	4

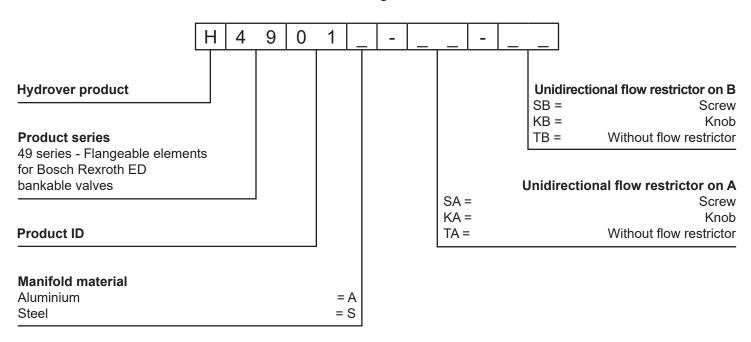
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Flangeable elements for Bosch Rexroth ED bankable valves 49 SERIES

49 SERIES **H4901**

Ordering code

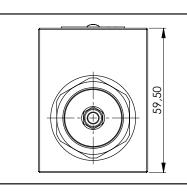


To inhibit one of the flow restrictors, substitute the related options with T: eg. H4901A-TA-SB. In the cavity it will be mounted a short plug.		
Valve Cavity Short plug code		Short plug code
Bosch Rexroth unidirectional flow restrictor STVU-08A CA-08A-2N R-800-008		R-800-008

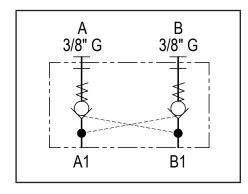


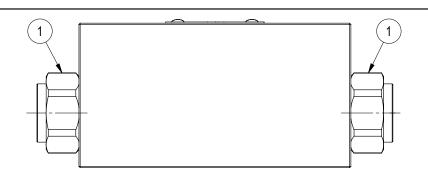
H4903

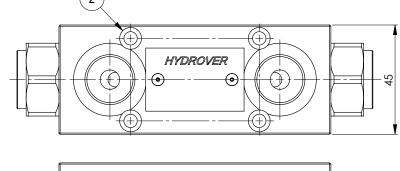
ED flangeable element with cross piloted check valves on A and B

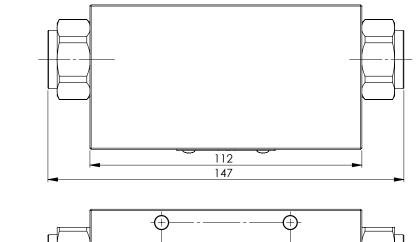


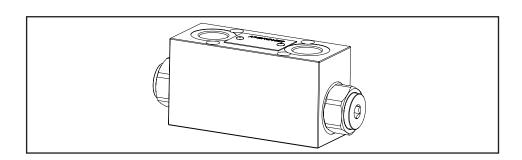
Technical data	
Max. pressure	250 bar
Max. flow	40 lpm
Weight	0,7 Kg
Manifold material	Aluminium
A / B ports	3/8" G











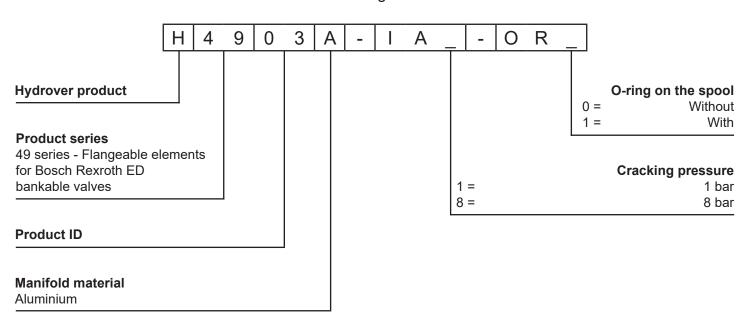
N°	Description	Q.ty
1	Bosch Rexroth check valve	2
2	Ø 5,5 through hole with counterbore for mounting	4



Flangeable elements for Bosch Rexroth ED bankable valves 49 SERIES

49 SERIES **H4903**

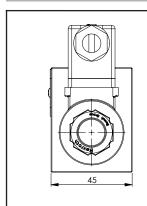
Ordering code



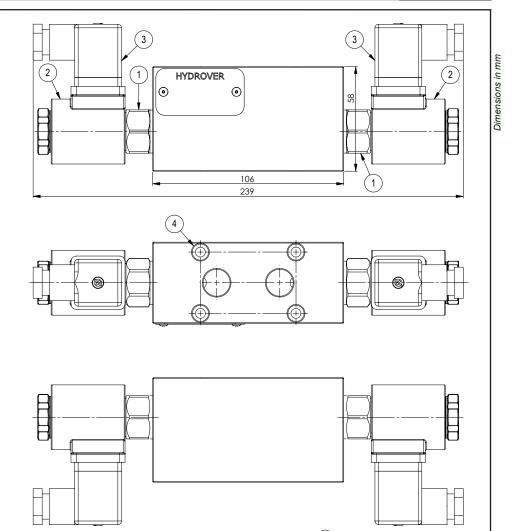


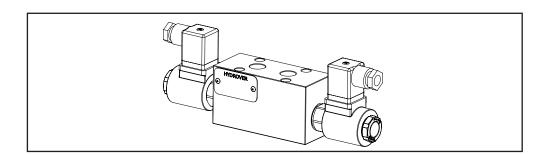
Flangeable elements for Bosch Rexroth ED bankable valves 49 SERIES

ED flangeable element with poppet type solenoid operated directional valves between A1 and A / B1 and B



Technical data		
Max. pressure	250 bar	
Max. flow	40 lpm *	
Weight	1,1 Kg	
Manifold material	Aluminium	





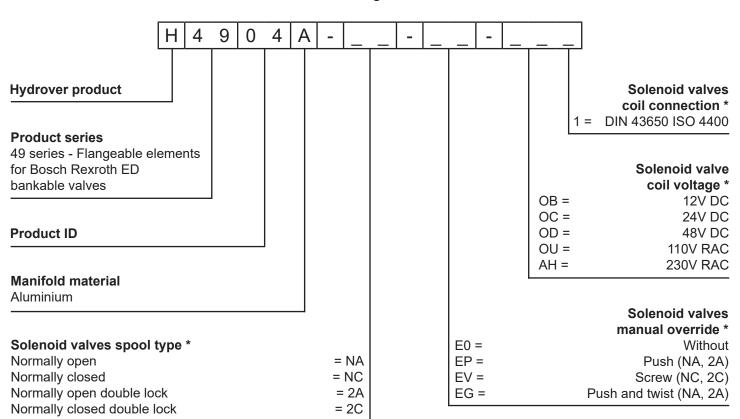
N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-08A-NC OD.15-X-18-Y-000000 (normally closed) or VEI-16-08A-NA OD.15-X-18-Y-000000 (normally open) depicted without manual override *	2
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	2
3	Connector DIN 43650 ISO 4400	2
4	Ø 5,5 through hole with counterbore for mounting	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

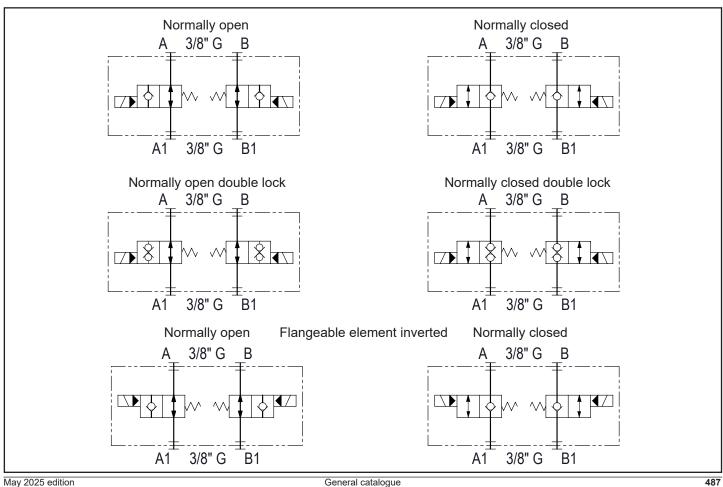


H4904

Ordering code

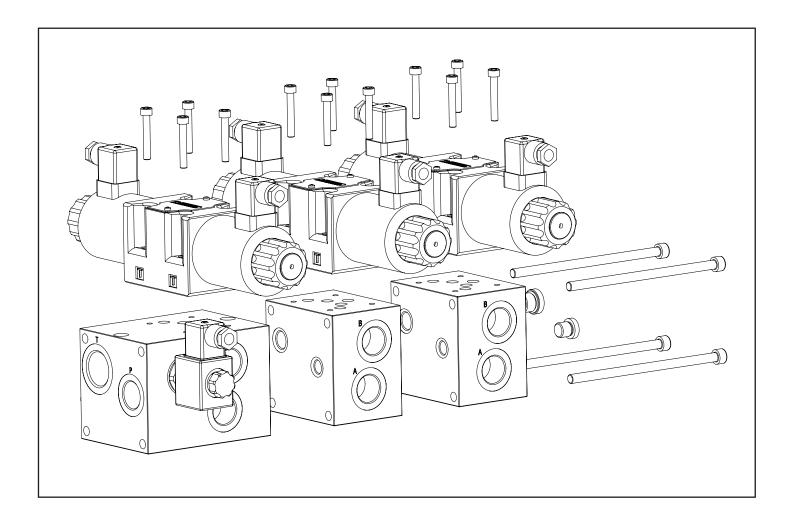


Omit if not required. For example to order the product without the coils, omit the solenoid valves coil voltage and coil connection options: H4904A-NC-E0.





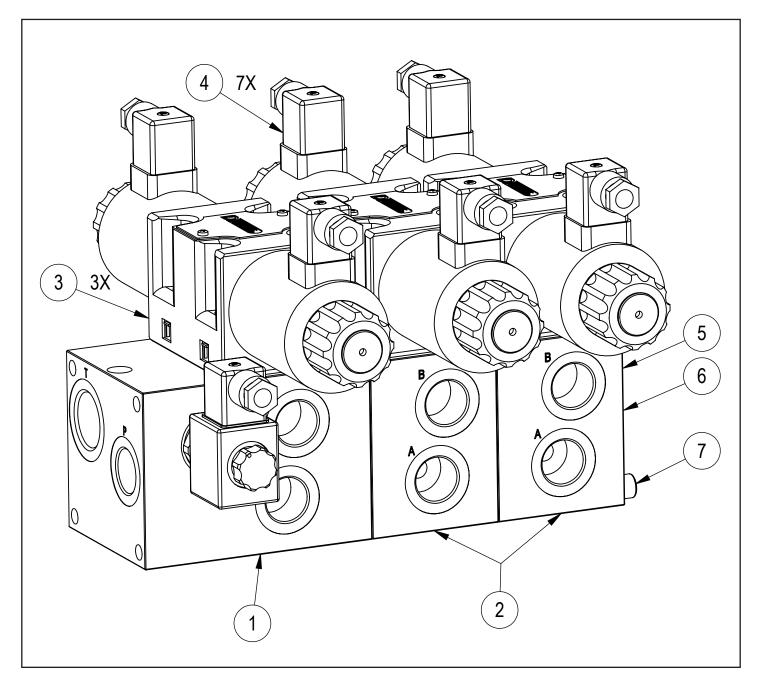
51 SERIES Modular Cetop 5 subplates for parallel circuits



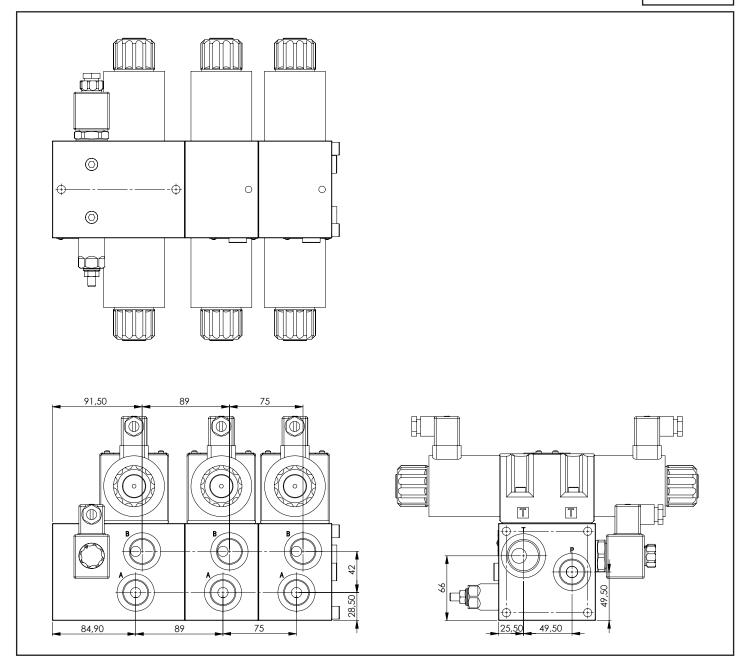


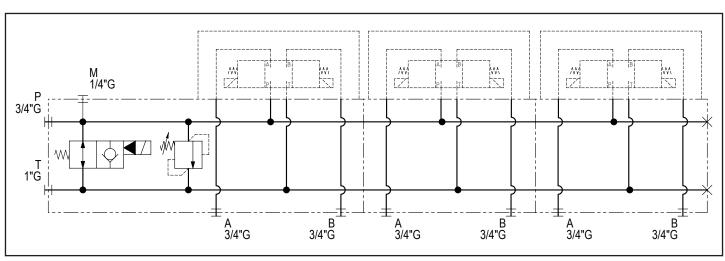
H51-G1

N°	Ordering code	Description	Q.ty
1	H5101A-S2-E0-OC1	CETOP 5 SUBPLATE S51 1 STAT. RV 70-280 BAR EV BYPASS 24V DC DIN 150 LPM AL.	1
2	H5102A	CETOP 5 INT. EL. S51 1 STAT. 3/4" G SIDE A-B PORTS AL.	2
3	CETOP 5 VALVE	CETOP 5 VALVE	3
4	V1389	DIN 43650 ISO 4400 CONNECTOR	7
5	TPCLG3/8	3/8" G PLUG FOR T	1
6	TPCLG1/4	1/4" G PLUG FOR P	1
7	HKVM8X160-4	ASSEMBLING KIT 4 SCREWS M8X160 - S51 2 EL.	1

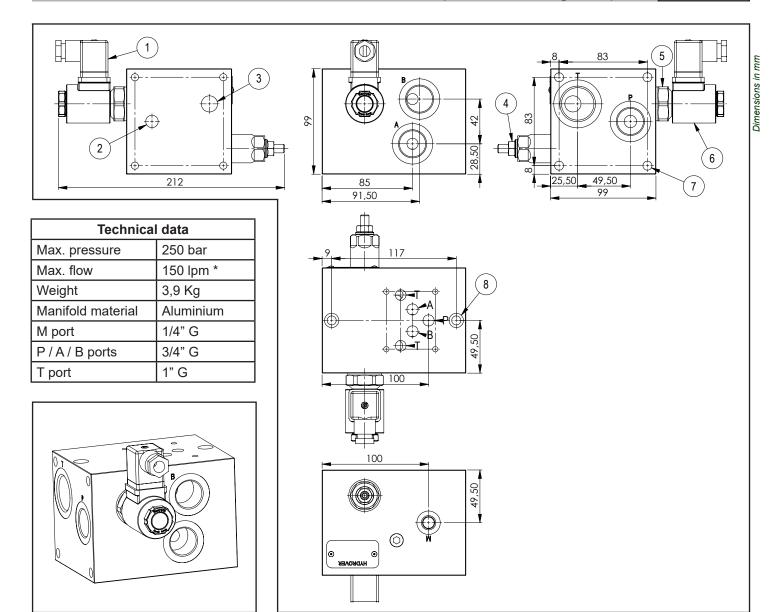






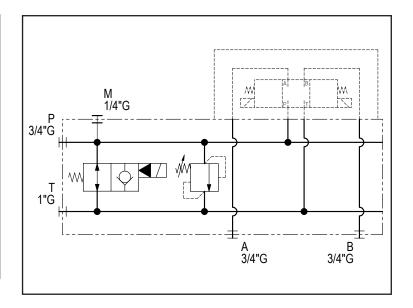


Inlet subplate with 1 station / extensible / relief and bypass valve side A-B ports / crossing P-T ports



N°	Description	Q.ty
1	Connector DIN 43650 ISO 4400	1
2	Ø 11,5 through hole with 1/4" G thread (P)	1
3	Ø 15 through hole with 3/8" G thread (T)	1
4	Bosch Rexroth relief valve VSPN-10A* depicted with screw adjustment	1
5	Bosch Rexroth solenoid valve OD.15.06.89-Y-000000 depicted without manual override *	1
6	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	2
7	M10x15 thread for mounting	4
8	Ø 8,5 through hole for mounting with counterbore	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

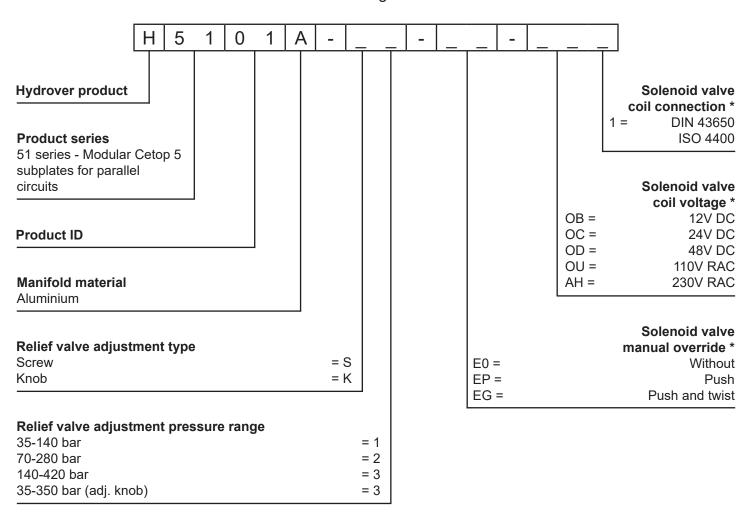




Modular Cetop 5 subplates for parallel circuits 51 SERIES

51 SERIES **H5101**

Ordering code



^{*} Omit if not required. To order the product without the relief cartridge valve, omit the pressure range and adjustment type options: eg. H5101A-E0-OC1.

The manifold will still be provided with the corrisponding cavity.

To inhibit the relief cartridge valve, replace the related options with TL: eg. H5101A-TL-E0-OC1.

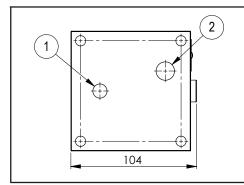
In the cavity it will be mounted a long plug.

Valve	Cavity	Long plug code
Solenoid valve OD.15.06.89-Y-000000	CA-12A-2N	0489A2005700000
Pressure relief valve VSPN-10A	CA-10A-2N	0489A2008500000

Note: to add stations use the intermediate / closing subplate **H5102**.

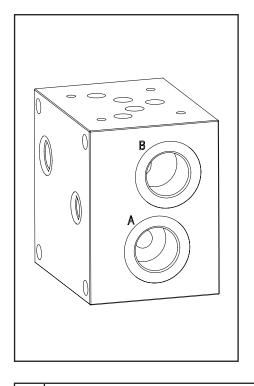
Intermediate / closing subplate with 1 station / side A-B ports

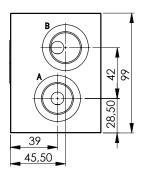
H5102

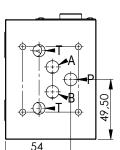


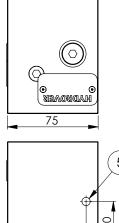
HYDROVER

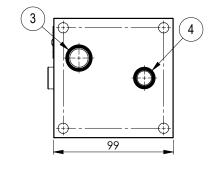
Technical data		
Max. pressure	250 bar	
Weight	1,8 Kg	
Manifold material	Aluminium	
A / B ports	3/4" G	

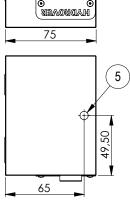




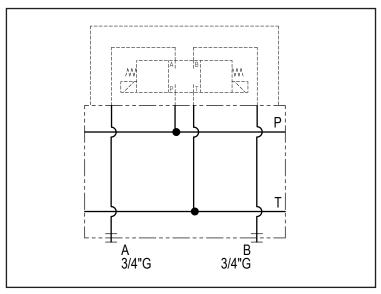








N°	Description	Q.ty
1	Ø 11,5 through hole with 1/4" G thread (P)	1
2	Ø 15 through hole with 3/8" G thread (T)	1
3	OR 3068 Ø i. 17,12 cross section 2,62 (T)	1
4	OR 117 Ø i. 13,10 cross section 2,62 (P)	1
5	M8x15 thread for mounting	1

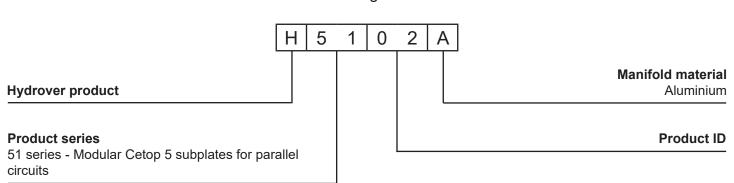




Modular Cetop 5 subplates for parallel circuits 51 SERIES

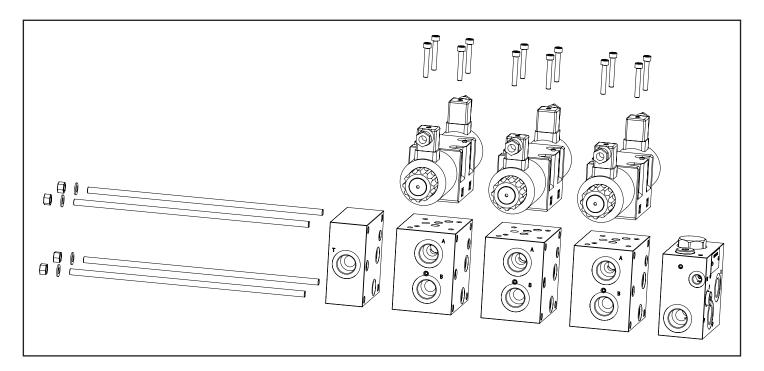
51 SERIES **H5102**

Ordering code





52 SERIES Load sensing modular Cetop 5 subplates for parallel circuits



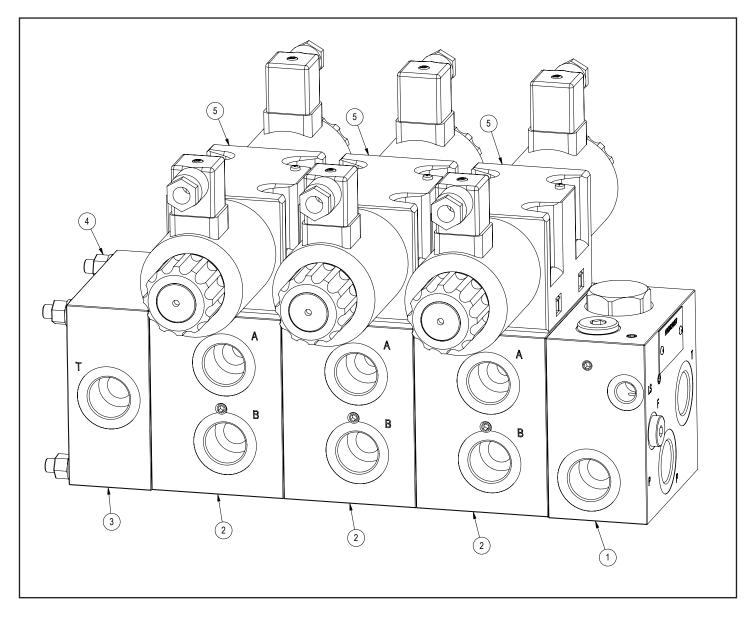
52 SERIES products give you the possibility to build Cetop 5 load sensing systems for variable displacement pumps or gear pumps.

It need Cetop 5 valves with A/B in T in neutral position. So if there is a load to sustain, you will have to add check valves or counterbalance valves. Maximum inlet flow is 150 lpm, maximum operating pressure 250 bar (Aluminium manifolds). We can build on request steel manifolds for a maximum operating pressure of 350 bar.

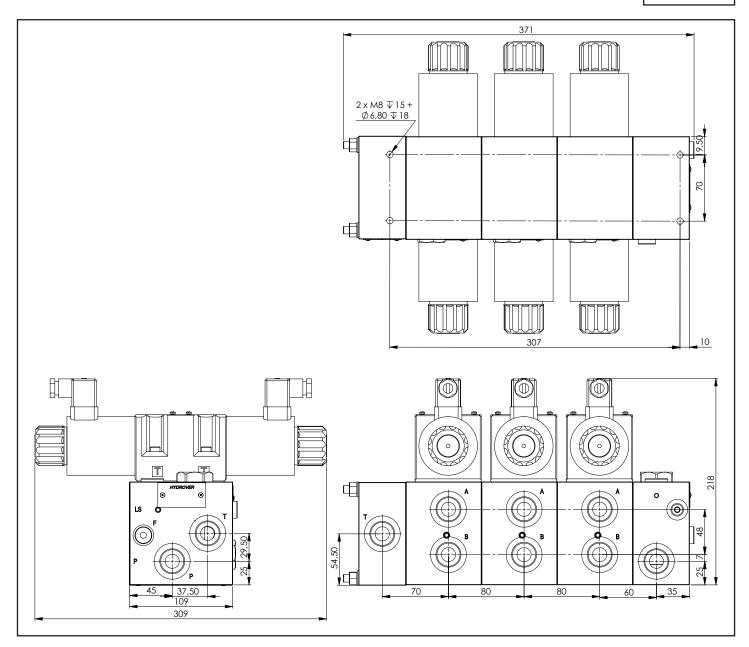


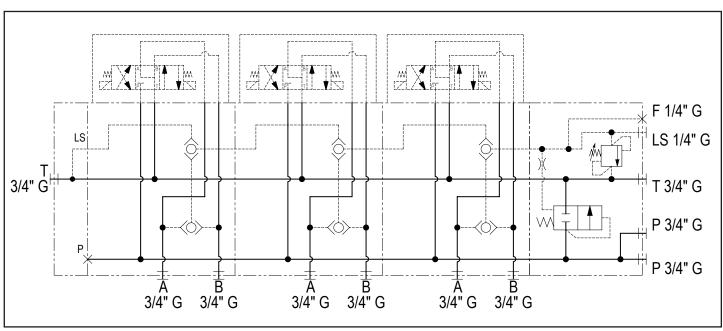
Mounted group sample H52-G1 H52-G1

N°	Ordering code	Description	Q.ty
1	H5204A1TL	CETOP5 S52 LS/FS INLET PLATE COMP. 3 WAYS S. 12.5 BAR 3/4G P-T LS 1/4G PORTS RV LONG PLUG 90 LPM AL.	1
2	H5203A-TC	CETOP5 S52 LS/FS INT. EL. 1 STAT. 3/4G SIDE A-B PORTS AL.	3
3	H5202A	CETOP5 S52 LS/FS INT. EL. 1 STAT. 3/4G SIDE A-B PORTS AL.	1
4	HKTM8X318DS-4	ASSEMBLING KIT	1
5	CETOP 5 VALVE	WITH A-B IN T IN NEUTRAL POSITION	3

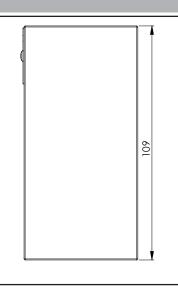


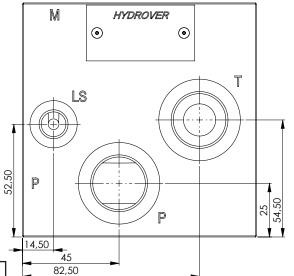


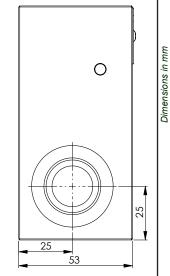




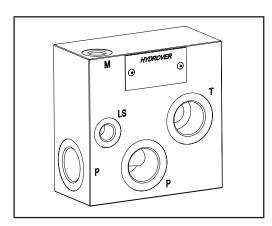
Inlet plate for variable displacement pump

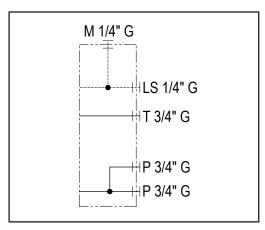




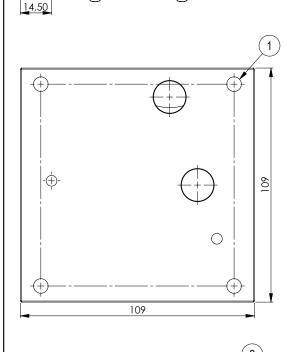


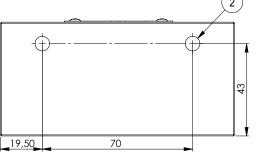
Technical data		
Max. pressure	250 bar	
Weight	1,6 Kg	
Manifold material	Aluminium	
LS / M ports	1/4" G	
P / P / T ports	3/4" G	





N°	Description	Q.ty
1	M8x12 for tie rod	4
2	M8x15 thread for mounting	2



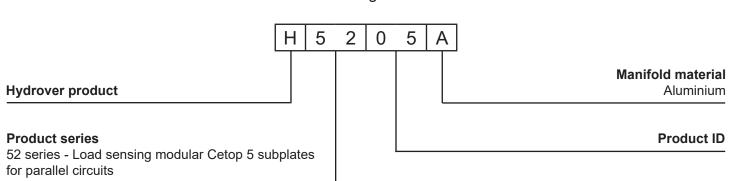




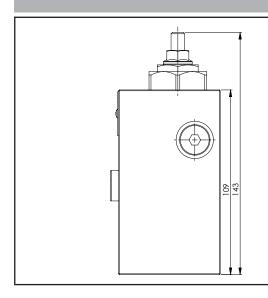
Load sensing modular Cetop 5 subplates for parallel circuits 52 SERIES

ts 52 SERIES **H5205**

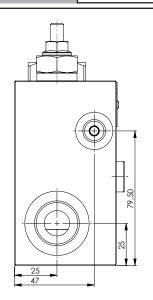
Ordering code



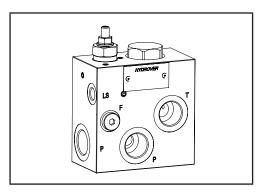
Inlet plate / relief valve / 3 way compensated / for fixed displacement pump

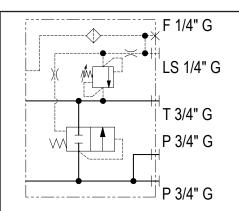


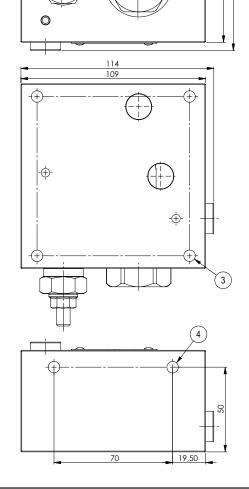
	ħ.
HYDROVER	
LS O -	Д-
F	
	1
P	
P	25 54,50
45 82,50	



Technical data		
Max. pressure	250 bar	
Max. flow	150 lpm	
Weight	2 Kg	
Manifold material	Aluminium	
LS port	1/4" G	
P / P / T ports	3/4" G	







N°	Description	Q.ty
1	Bosch Rexroth relief valve VSBN-08A *	1
2	Pressure compensator	1
3	M8x12 for tie rod	4
4	M8x15 thread for mounting	2

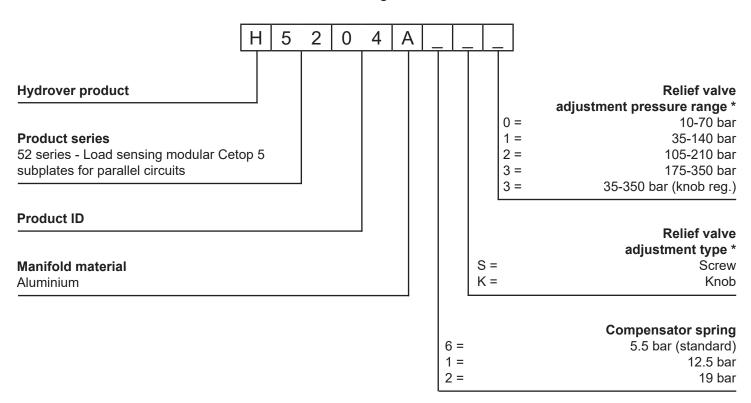
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Load sensing modular Cetop 5 subplates for parallel circuits 52 SERIES

52 SERIES **H5204**

Ordering code



^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the adjustment type and pressure range options: eg H5204A6.

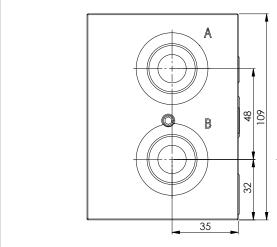
The manifold will still be provided with the corrisponding cavity.

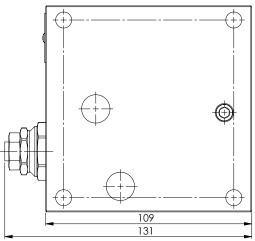
To inhibit the relief valve, replace the related options with TL: eg H5204A6TL.

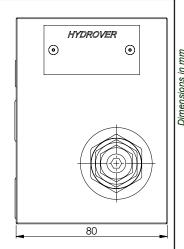
In the cavity it will be mounted a long plug.

Valve	Cavity	Long plug code
Pressure relief valve VSBN-08A	CA-08A-2N	0489A2005600000

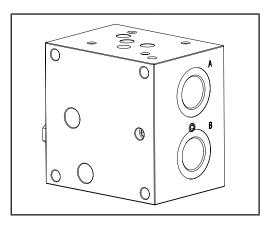
Intermediate subplate / flow restrictor on P / 1 Cetop 5 station / side A-B ports

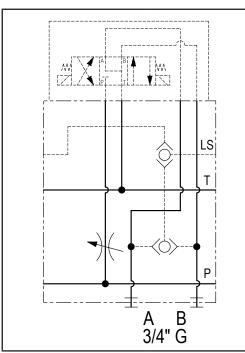


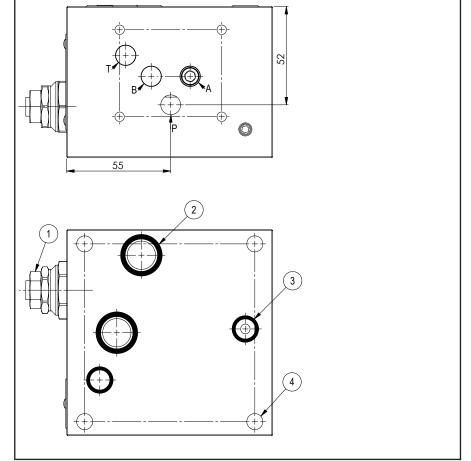




Technical data				
Max. pressure	250 bar			
Regulated max. flow	70 lpm *			
Weight	2,5 Kg			
Manifold material	Aluminium			
A / B ports	3/4" G			







N°	Description	Q.ty
1	Bosch Rexroth bidirectional flow restrictor OD.21.01-X-36 * depicted with screw adjustment	1
2	OR 3068 i. Ø 17.12 cross section 2.62 (P-T)	2
3	OR 2043 i. Ø 10,82 cross section 1,78(LS-FS)	2
4	Ø 8,5 through hole for tie rod	4

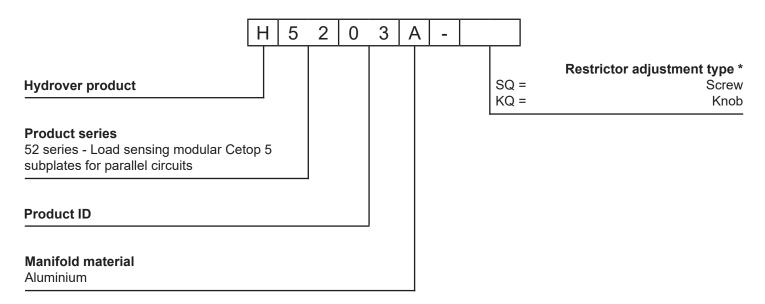
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Load sensing modular Cetop 5 subplates for parallel circuits 52 SERIES

52 SERIES **H5203**

Ordering code



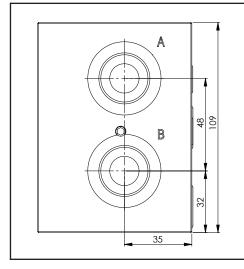
* Omit if not required. To order the product without the flow restrictor cartridge valve, omit restrictor adjustment type option: H5203A. The manifold will still be provided with the corrisponding cavity.

To inhibit the flow restrictor cartridge valve, replace the related option with TC: eg H5203A-TC.

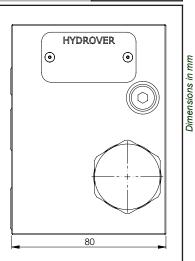
In the cavity it will be mounted a short plug.

Valve	Cavity	Short plug code
Bidirectional flow restrictor OD.21.01-X-36	CA-10A-2N	207505-7/8UNF

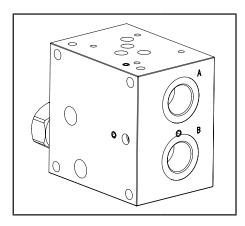
Intermediate subplate 2 way compensated / 1 Cetop 5 station / side A-B ports

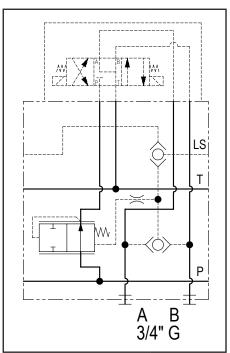


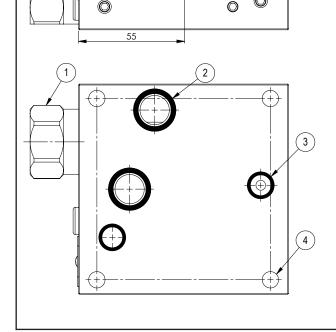
	0
109	
134	-



Technical data		
Max. pressure	250 bar	
Max. flow	80 lpm	
Weight	2,7 Kg	
Manifold material	Aluminium	
A / B ports	3/4" G	





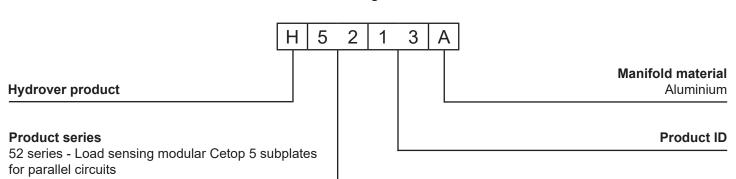


N°	Description	Q.ty
1	2 way compensator 5,5 bar spring	1
2	OR 3068 i. Ø 17.12 cross section 2.62 (P-T)	2
3	OR 2043 i. Ø 10,82 cross section 1,78(LS-FS)	2
4	Ø 8,5 through hole for tie rod	4



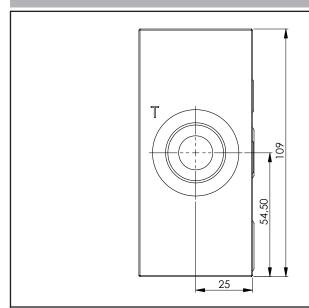
Load sensing modular Cetop 5 subplates for parallel circuits 52 SERIES

ts 52 SERIES **H5213**



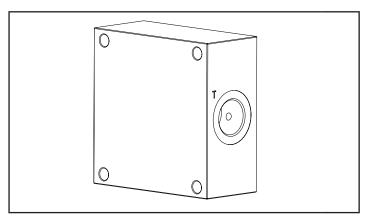
Closing plate / side 3/4" G T port

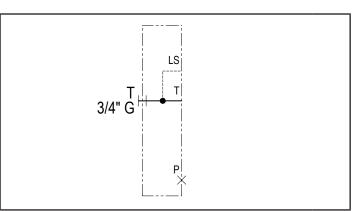




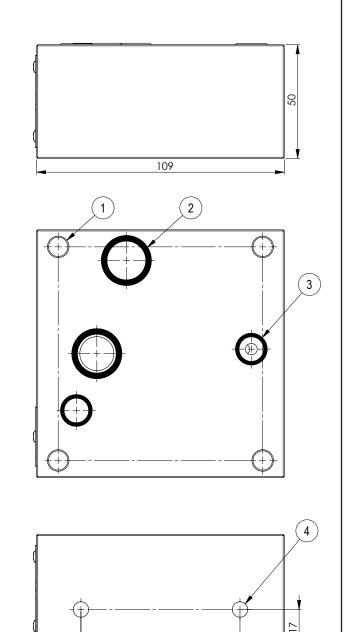
109		

Technical data		
Max. pressure	250 bar	
Weight	1,6 Kg	
Manifold material	Aluminium	
T port	3/4" G	





N°	Description	Q.ty
1	Ø 8,5 through hole for tie rod	4
2	OR 3068 i. Ø 17.12 cross section 2.62 (P-T)	2
3	OR 2043 i. Ø 10,82 cross section 1,78(LS-FS)	2
5	M8x15 thread for mounting	2



70

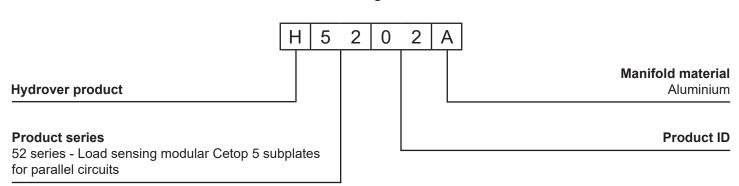
19,50



Load sensing modular Cetop 5 subplates for parallel circuits 52 SERIES

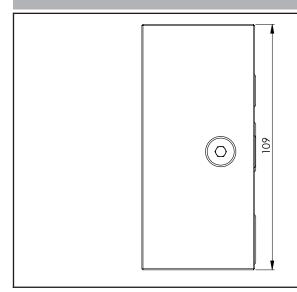
52 SERIES **H5202**

Ordering code

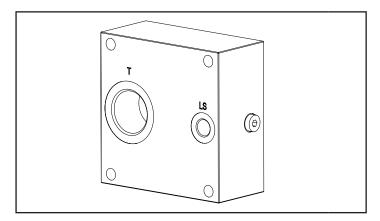


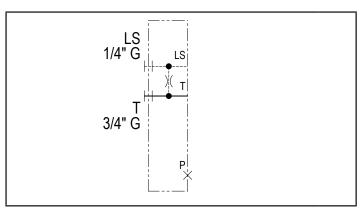
Note: this closing plate can be used like a blank closing plate. For that just screw a 3/4" G plug in the T port.

Closing plate / front 3/4" G T and LS 1/4" G ports

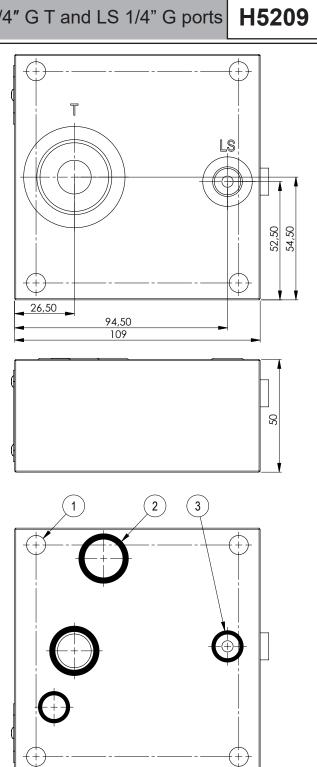


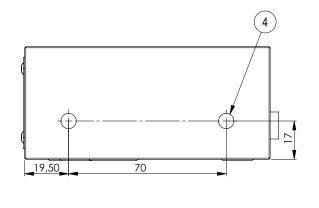
Technical data		
Max. pressure	250 bar	
Weight	1,6 Kg	
Manifold material	Aluminium	
LS port	1/4" G	
T port	3/4" G	





N°	Description	Q.ty
1	Ø 8,5 through hole for tie rod	4
2	OR 3068 i. Ø 17.12 cross section 2.62 (P-T)	2
3	OR 2043 i. Ø 10,82 cross section 1,78(LS-FS)	2
5	M8x15 thread for mounting	2



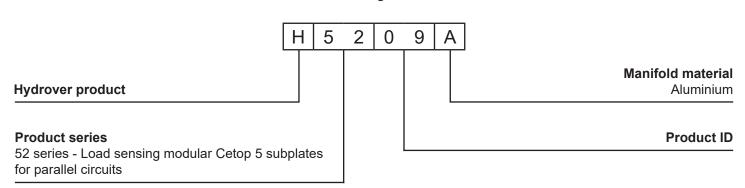




Load sensing modular Cetop 5 subplates for parallel circuits 52 SERIES

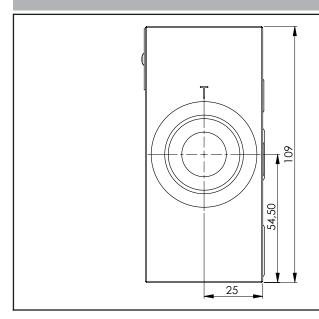
52 SERIES **H5209**

Ordering code

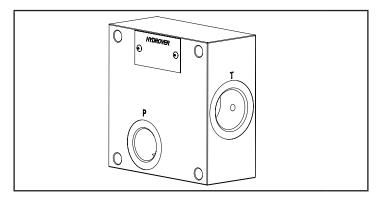


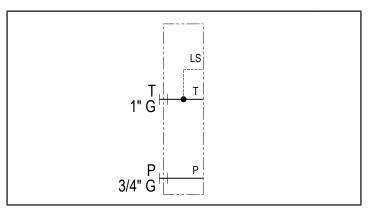
Note: this closing plate can be used like a blank closing plate. For that just screw a 3/4" G plug in the T port.

Closing plate / 3/4" G P port / 1" G T port

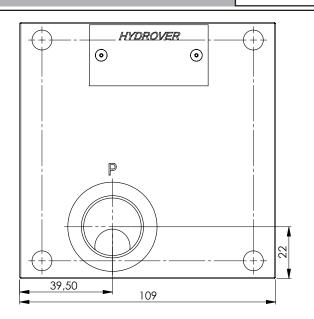


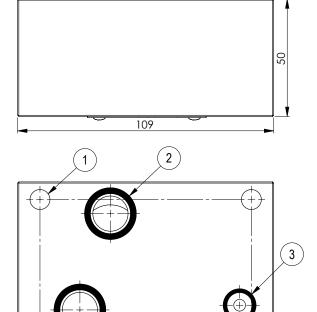
Technical data		
Max. pressure	250 bar	
Weight	1,5 Kg	
Manifold material	Aluminium	
P port	3/4" G	
T port	1" G	

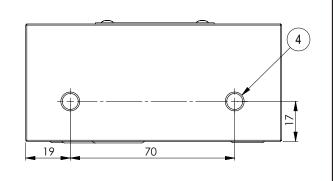




N°	N° Description	
1	Ø 8,5 through hole for tie rod	4
2	OR 3068 i. Ø 17.12 cross section 2.62 (P-T)	2
3	OR 2043 i. Ø 10,82 cross section 1,78(LS-FS)	2
4	M8x15 thread for mounting	2



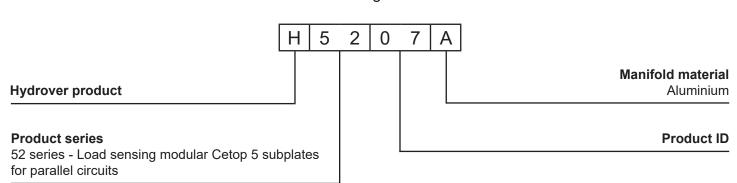




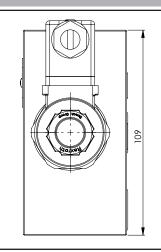


Load sensing modular Cetop 5 subplates for parallel circuits 52 SERIES

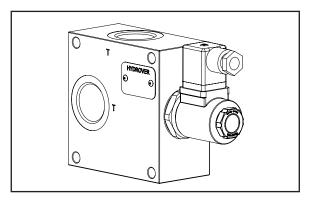
52 SERIES **H5207**

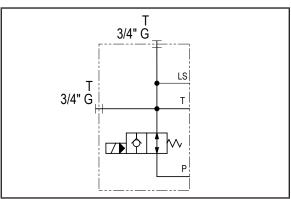


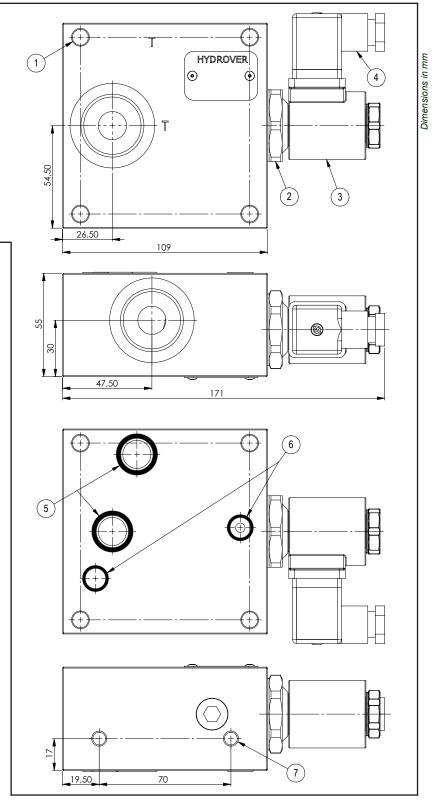
Closing plate / unloading valve / two 3/4" G T ports



Technical data		
Max. pressure	250 bar	
Max. flow	120 lpm *	
Weight	2 Kg	
Manifold material	Aluminium	
Ports T/T	3/4" G	





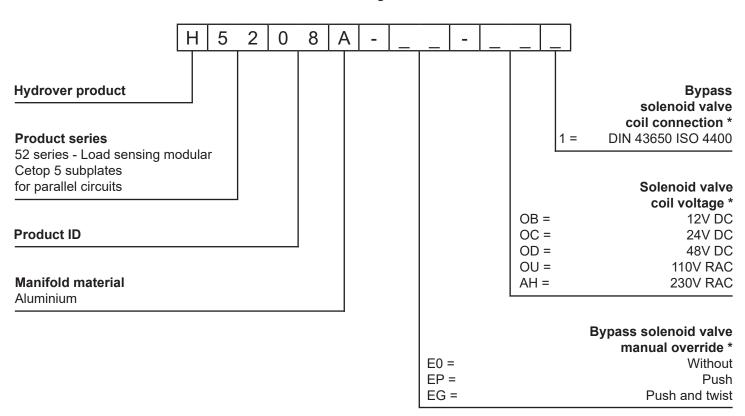


N°	Description	Q.ty
1	Ø 8,5 through hole for tie rod	4
2	Bosch Rexroth solenoid valve VEI-16-021-NA OD.15.06.21-Y-000000 depicted without manual override *	1
3	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
4	Connector DIN 43650 ISO 4400	1
5	OR 3068 i. Ø 17.12 cross section 2.62 (P-T)	2
6	OR 2043 i. Ø 10,82 cross section 1,78(LS-FS)	2
7	M8x15 thread for mounting	2



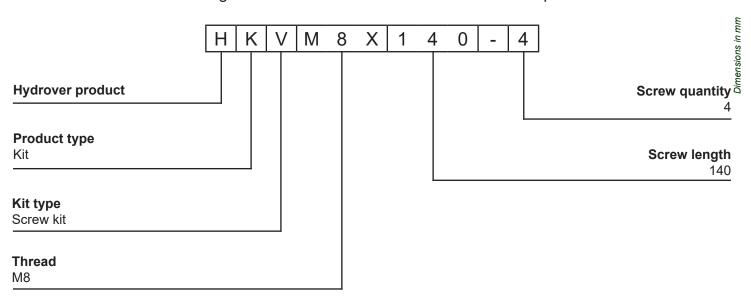
Load sensing modular Cetop 5 subplates for parallel circuits 52 SERIES

52 SERIES **H5208**

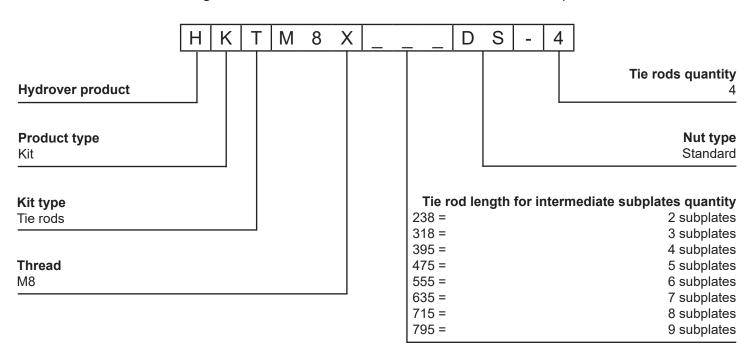




Ordering code for assemblies with 1 intermediate subplate

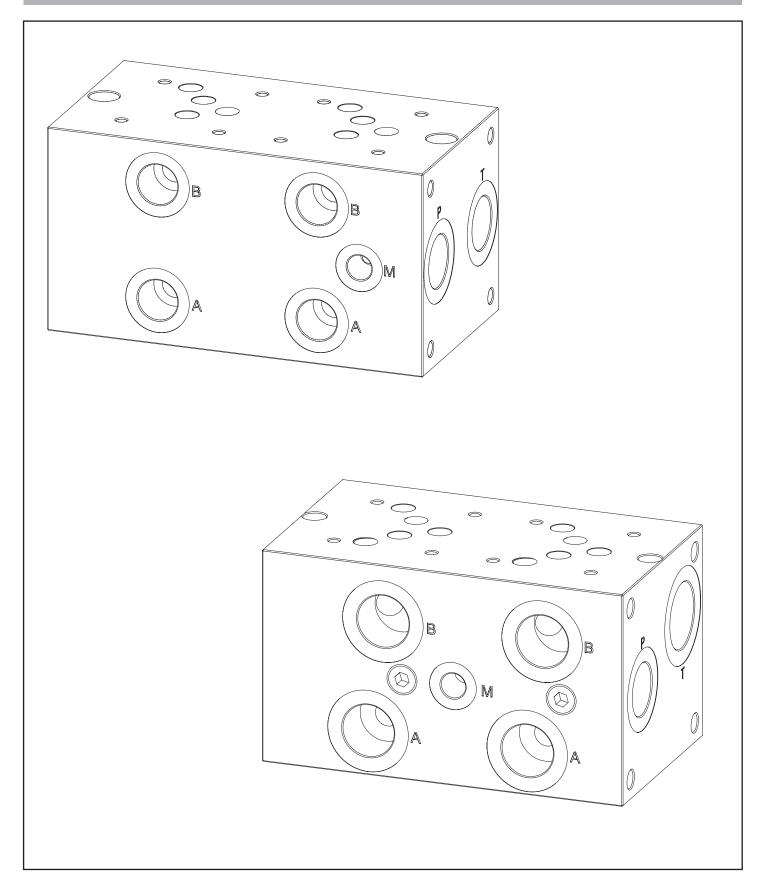


Ordering code for assemblies from 2 to 9 intermediate subplates



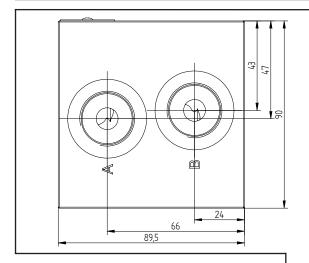


56 SERIES Cetop 5 subplates

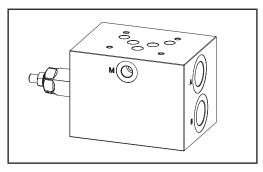


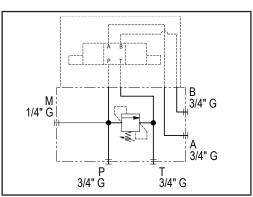
HYDROVER

Cetop 5 single station subplate / relief valve / back P-T ports / side A-B ports

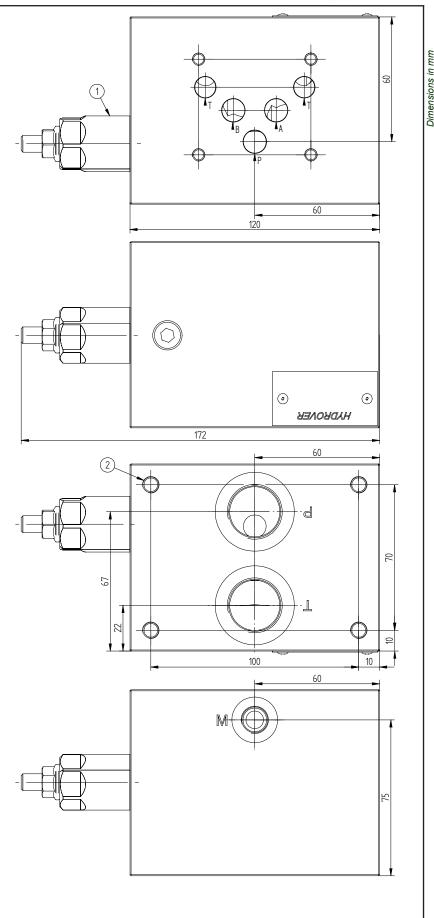


Technical data				
Max. pressure	250 bar			
Max. flow	120 lpm *			
Weight	2,7 Kg			
Manifold material	Aluminium			
M port	1/4" G			
P/T/A/B ports	3/4" G			





N°	Description	Q.ty
1	Bosch Rexroth relief valve VSPN-10A depicted with screw adjustment	1
2	M8x15 thread for mounting	4

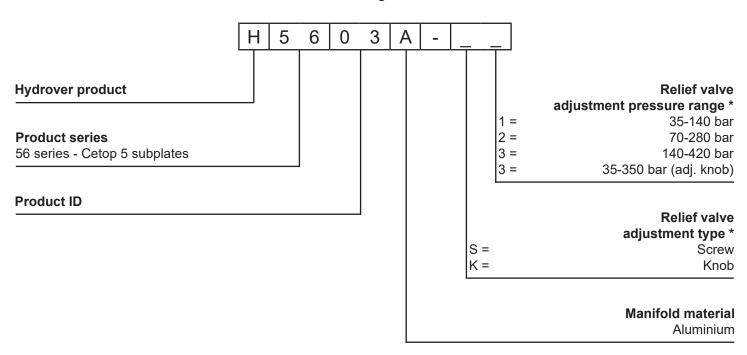




Cetop 5 subplates 56 SERIES

56 SERIES **H5603**

Ordering code



^{*} Omit if not required. To order the product without the relief cartridge valve, omit the pressure range and adjustment type options: H5603A.

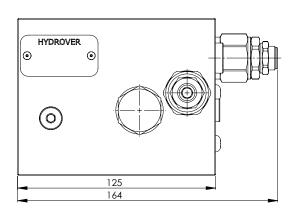
The manifold will still be provided with the corrisponding cavity.

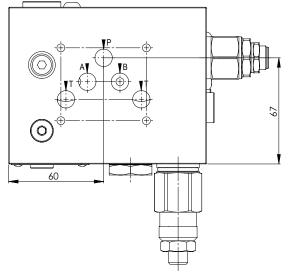
To inhibit the relief valve, replace the related options with TL: H5203A-TL.

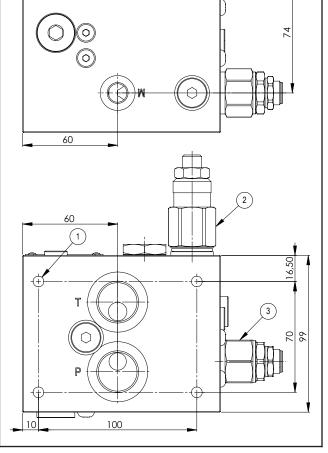
In the cavity it will be mounted a long plug.

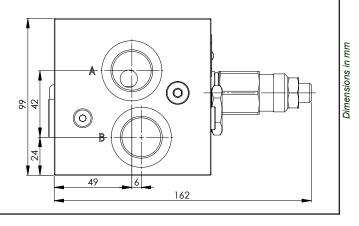
Valve	Cavity	Long plug code
Pressure relief valve VSPN-10A	CA-10A-2N	0489A2008500000

Cetop 5 single station subplate / excludable regenerative / relief valve back P-T ports / side A-B ports

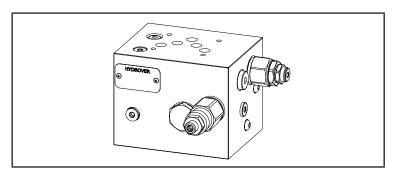


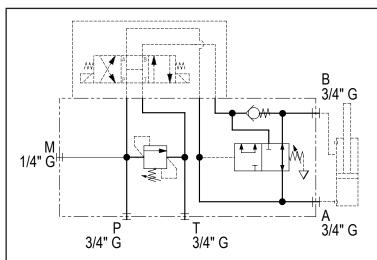






Caratteristiche tecniche			
Max. pressure	350 bar		
Max. inlet flow	70 lplm *		
Max. regenerated flow	140 lpm *		
Weight	8,8 Kg		
Manifold material	Steel		
M port	1/4" G		
P/T/A/B ports	3/4" G		





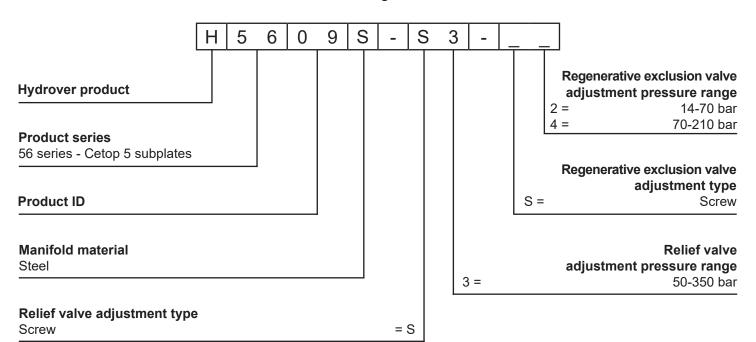
N°	Description	Q.ty
1	M8x15 thread for mounting	4
2	Regenerative exclusion valve	1
3	Hydrover relief valve HCMM03-S3	1

^{*} With cylinder ratio 2:1. With higher ratio, the pump flow rate should decrease proportionally.

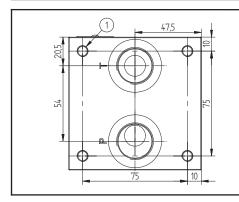


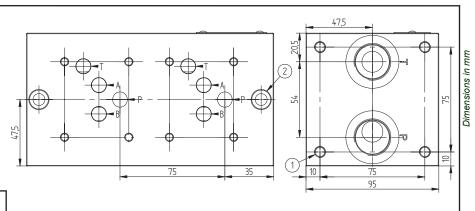
Cetop 5 subplates 56 SERIES

56 SERIES **H5609**

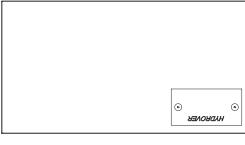


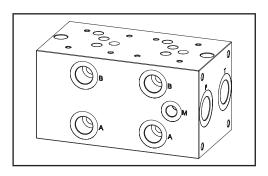
Cetop 5 subplate from 1 to 6 stations 3/4" G crossing P-T ports / 1/2" G side A-B ports

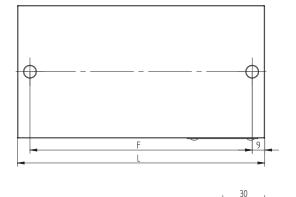


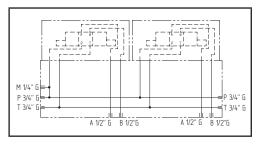


Technical data				
Press. max.	350 bar			
1 station weight	6,1 Kg			
2 stations weight	10,9 Kg			
3 stations weight	15,6 Kg			
4 stations weight	20,4 Kg			
5 stations weight	25,1 Kg			
6 stations weight	29,9 Kg			
Manifold material	Steel			
M port	1/4" G			
A / B ports	1/2" G			
P / T ports	3/4" G			









1		- 30 -	
B			
		- M	
		Y	47,5
		"	20,5
'	75	50	
,			•

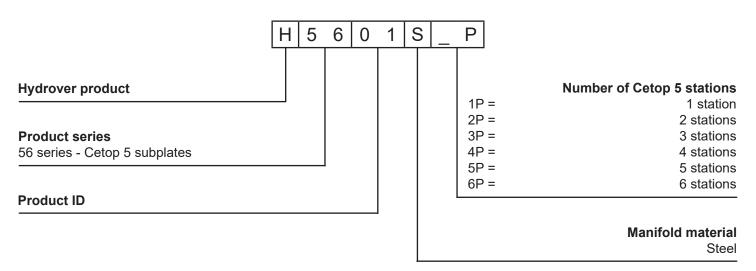
N°	Description	Q.ty
1	M8x15 thread for mounting	8
2	Ø 8,5 through hole for mounting	2

Stat.	1	2	3	4	5	6
L	102	177	252	327	402	477
F	84	159	234	309	384	459



Cetop 5 subplates 56 SERIES

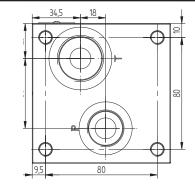
56 SERIES **H5601**

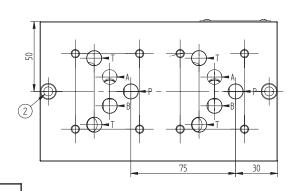


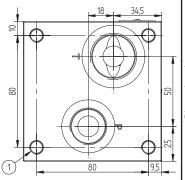
Cetop 5 subplate from 2 to 6 stations

H5602

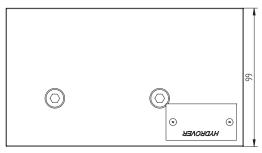
3/4" G crossing P port / 1" G crossing T port / 3/4" G side A-B ports

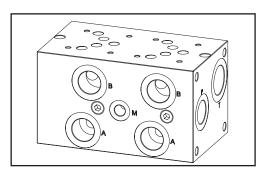


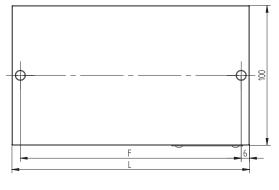


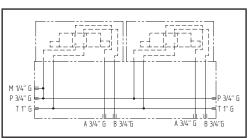


Technical data				
Press. max.	350 bar			
2 stations weight	11,4 Kg			
3 stations weight	16,3 Kg			
4 stations weight	21,2 Kg			
5 stations weight	26,1 Kg			
6 stations weight	31 Kg			
Manifold material	Steel			
M port	1/4" G			
P/A/B ports	3/4" G			
T port	1" G			









80	
B B B A A A A A A A A A A A A A A A A A	26.5 52.5 78.5

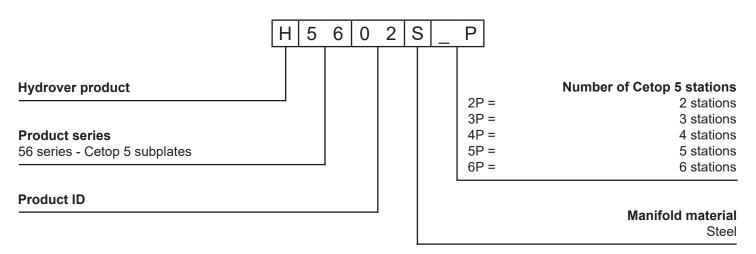
N°	Description	Q.ty
1	M10x15 for mounting	8
2	Ø 6,5 through hole with counterbore for mounting	2

Stat.	2	3	4	5	6
L	170	245	320	395	470
F	158	233	308	383	458



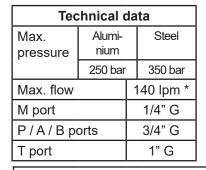
Cetop 5 subplates 56 SERIES

56 SERIES **H5602**

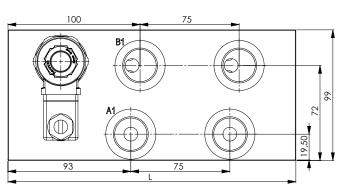


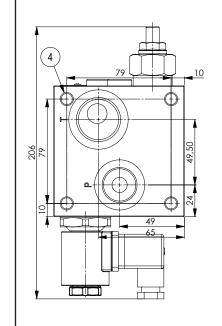
Cetop 5 subplate from 1 to 5 stations / bypass and relief valves crossing P 3/4"G and T 1"G ports / side A-B ports

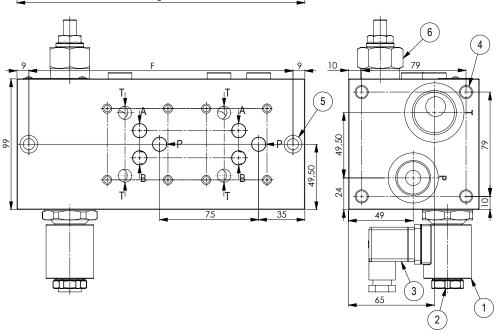
H5604



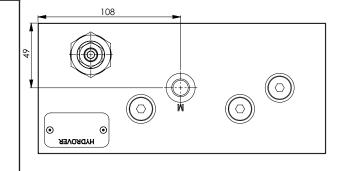
HYDROUER



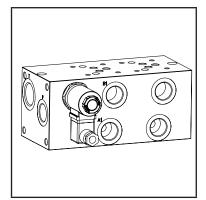


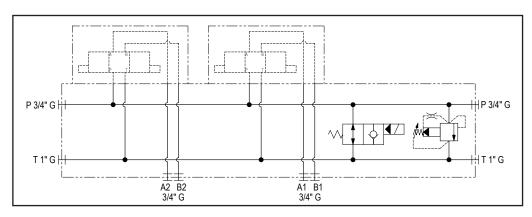


Weight			
Stat.	Alumi- nium	Steel	
1	3,8 Kg	9,7 Kg	
2	5,1 Kg	14,9 Kg	
3	7 Kg	20,1 Kg	
4	8,9 Kg	25,3 Kg	
5	10,8 Kg	30,5 Kg	



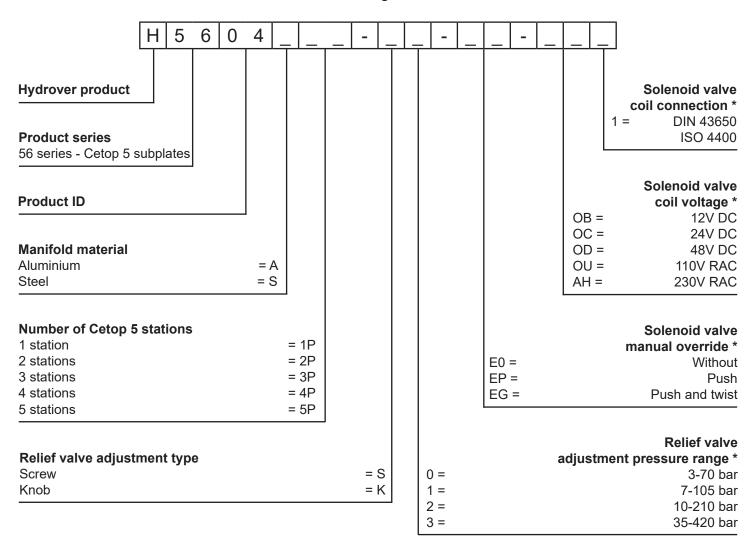
Stat.	F	L
1	125	143
2	200	218
3	275	293
4	350	368
5	425	443





56 SERIES **H5604**

Ordering code



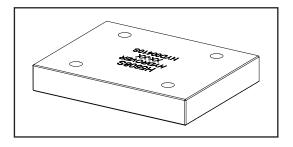
* Omit if not required. For example, to order the product without the relief cartridge valve, omit the pressure range and adjustment type options: H5604S3P-E0-OC1. The manifold will still be provided with the corrisponding cavity. To inhibit the solenoid valve, replace the related options with TL: eg. H5604S3P-S2-TL. In the cavity it will be mounted a long plug.

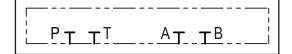
Valve	Cavity	Long plug code
Bosch Rexroth solenoid valve VEI-16-021-NA OD.15.06.21-Y-000000	021-E	R-800-015
Pressure relief valve VSP-150	065	Contact Hydrover

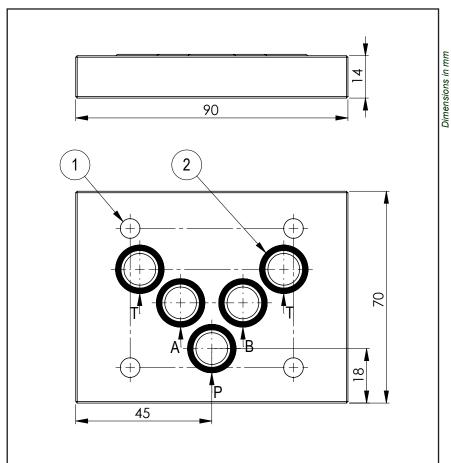
N°	Description	Q.ty
1	Bosch Rexroth coil S8-356 - CLASS H DIN 43650 ISO 4400 *	1
2	Bosch Rexroth solenoid valve VEI-16-021-NA OD.15.06.21-Y-000000 depicted without manual override *	1
3	Connector DIN 43650 ISO 4400	1
4	M10x15 for mounting	8
5	Ø 8,5 through hole for mounting with counterbore	2
6	Bosch Rexroth relief valve VSP-150* depicted with screw adjustment	1

Cetop 5 station blanking plate

Technical data	
Manifold material	Steel
Max. pressure	350 bar
Weight	0,9 Kg



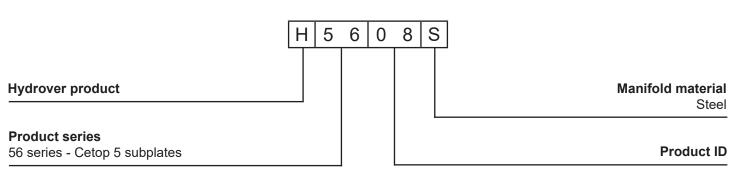




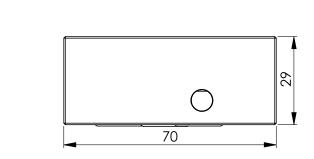
N	N° Description	Q.ty
1	1 Ø 6,5 through hole for mounting	4
[2	2 OR 2050 i. Ø 12,42 cross section 1,78	5

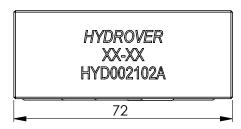


Cetop 5 subplates 56 SERIES **H5608**

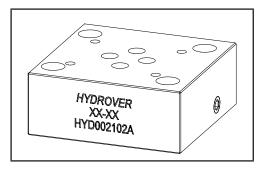


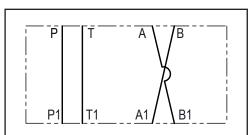
Reduction plate from Cetop 5 to Cetop 3

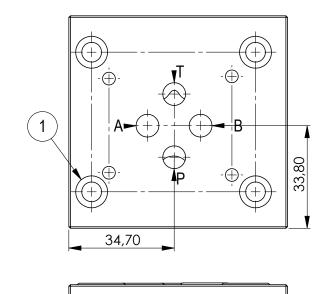


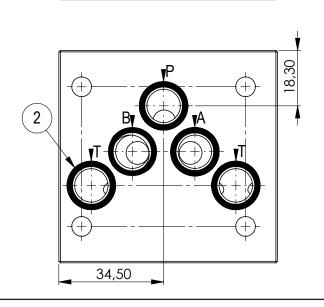


Technical data		
Manifold material	Aluminium	Steel
Max. pressure	250 bar	350 bar
Weight	0,3 Kg	0,9 Kg





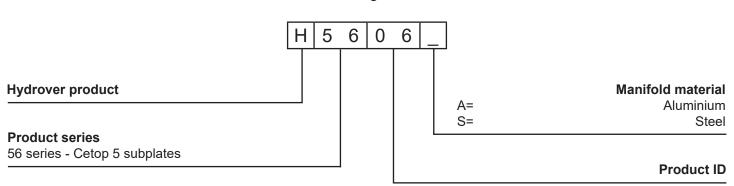




N°	Description	Q.ty
1	Ø 6,5 through hole for mounting with counterbore	4
2	OR 2050 i. Ø 12,42 cross section 1,78	5

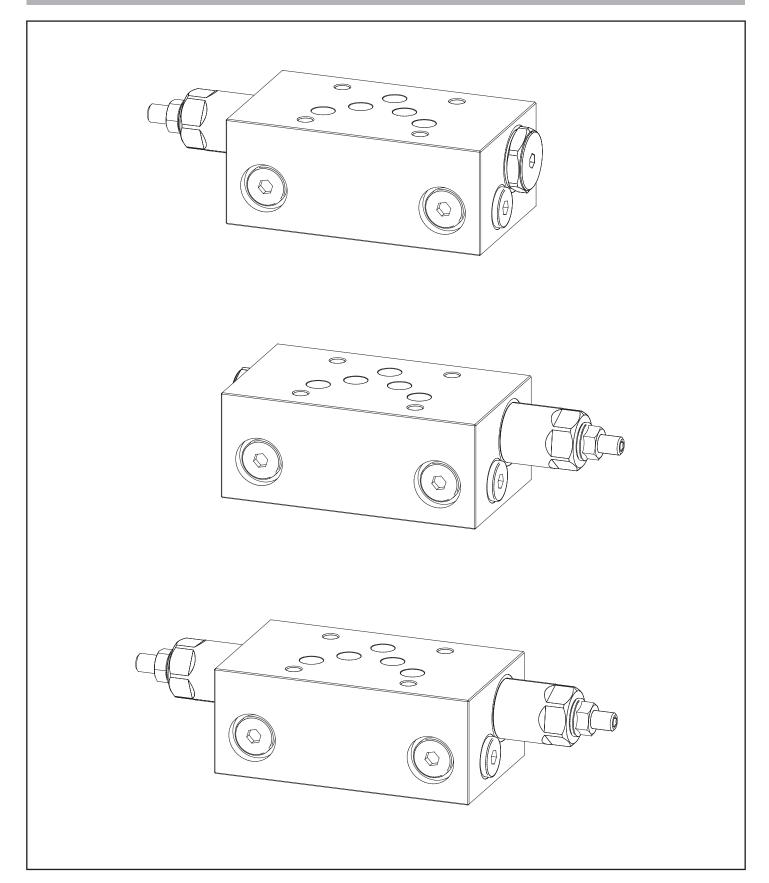


Cetop 5 subplates 56 SERIES **H5606**



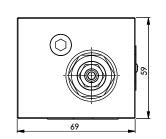


59 SERIES Cetop 5 modular valves

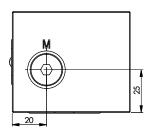


Cetop 5 modular relief valve on P

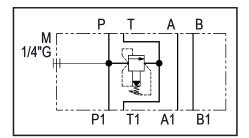
H5913



	118
L.	175
_	

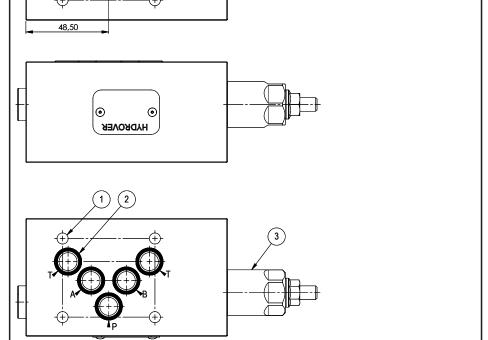


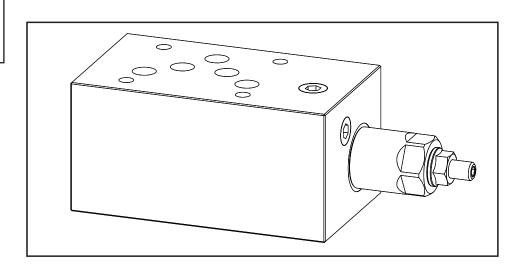
Technical data	
Max. pressure	250 bar
Max. flow	120 lpm *
Weight	1,45 Kg
Manifold material	Aluminium
M port	1/4" G



N°	Description	Q.ty
1	Ø 6,5 through hole for mounting	4
2	OR 2050 i. Ø 12,42 cross section 1,78	5
3	Bosch Rexroth relief valve VSPN-10A* depicted with screw adjustment	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

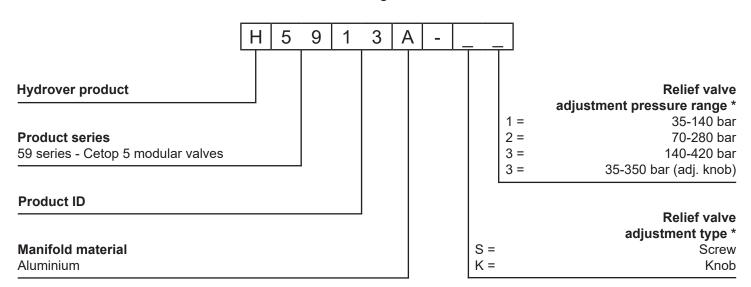






Cetop 5 modular valves 59 SERIES

59 SERIES **H5913**



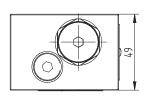
^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H5913A.

The manifold will still be provided with the corrisponding cavity.



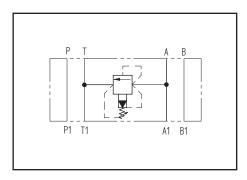
Cetop 5 modular relief valve on A

H5902



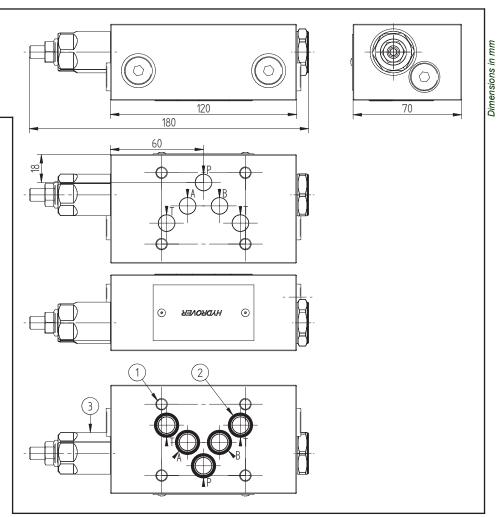
Technical data		
Max. pressure	350 bar	
Max. flow	120 lpm *	
Weight	3 Kg	
Manifold material	Steel	

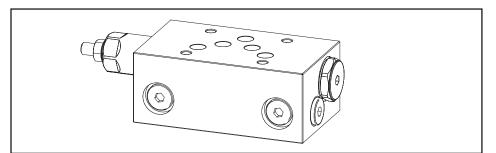
HYDROVER



N°	Description	Q.ty
1	Ø 6,5 through hole for mounting	4
2	OR 2050 i. Ø 12,42 cross section 1,78	5
3	Bosch Rexroth relief valve VSPN-10A* depicted with screw adjustment	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



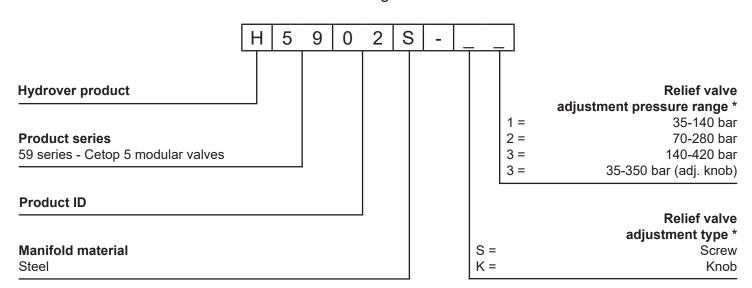




Cetop 5 modular valves 59 SERIES

59 SERIES **H5902**

Ordering code



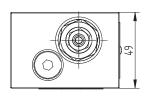
^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H5902S.

The manifold will still be provided with the corrisponding cavity.



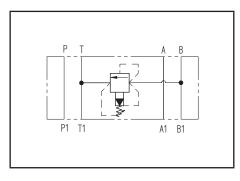
Cetop 5 modular relief valve on B





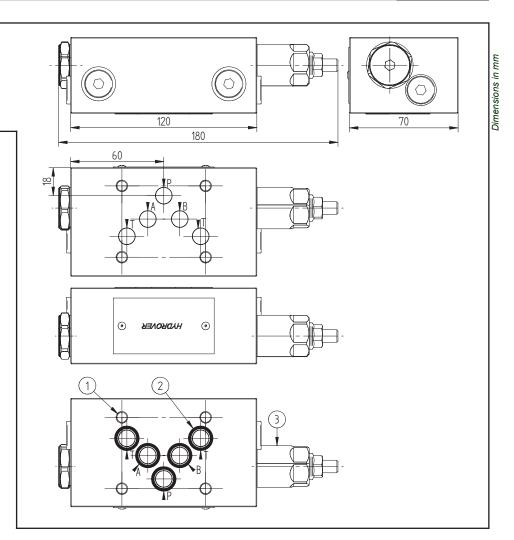
Technical data		
Max. pressure	350 bar	
Max. flow	120 lpm *	
Weight	3 Kg	
Manifold material	Steel	

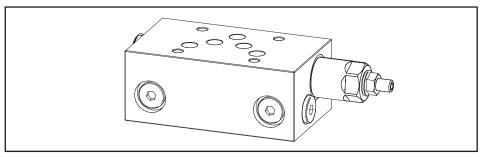
HYDROVER



N°	Description	Q.ty
1	Ø 6,5 through hole for mounting	4
2	OR 2050 i. Ø 12,42 cross section 1,78	5
3	Bosch Rexroth relief valve VSPN-10A* depicted with screw adjustment	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

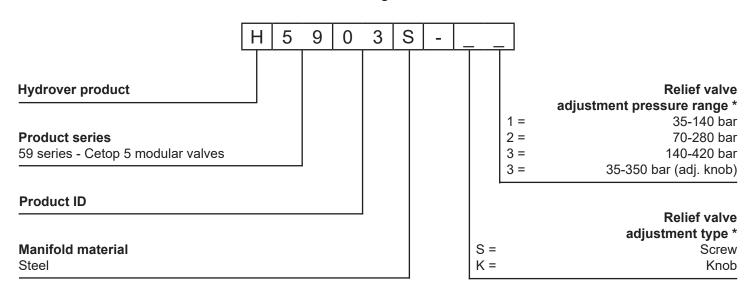






Cetop 5 modular valves 59 SERIES

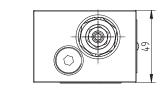
59 SERIES **H5903**



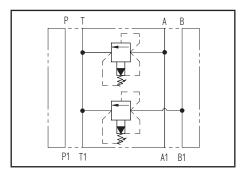
^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H5903S.

The manifold will still be provided with the corrisponding cavity.

Cetop 5 modular relief valve on A and B

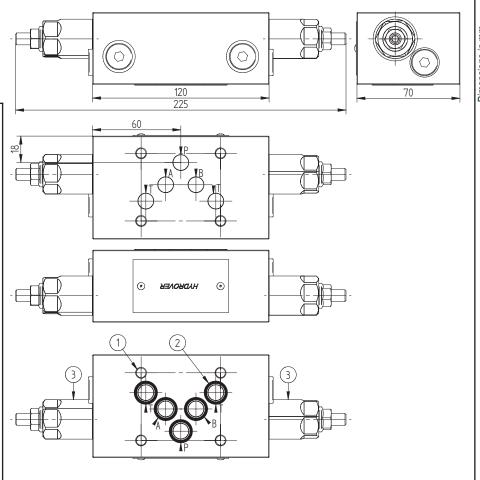


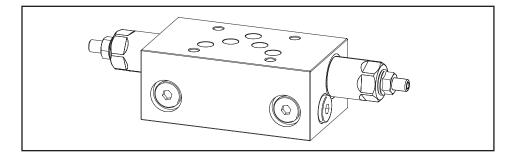
Technical data		
Max. pressure	350 bar	
Max. flow	120 lpm *	
Weight	3 Kg	
Manifold material	Steel	



N°	Description	Q.ty
1	Ø 6,5 through hole for mounting	4
2	OR 2050 i. Ø 12,42 cross section 1,78	5
3	Bosch Rexroth relief valve VSPN-10A* depicted with screw adjustment	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

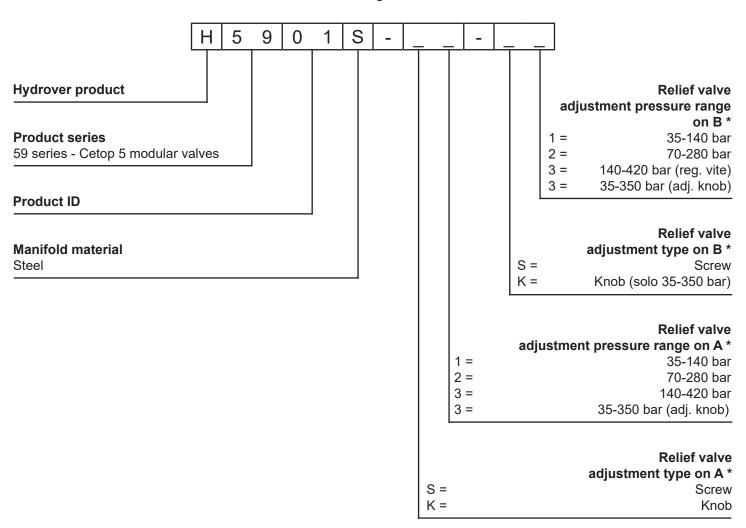






59 SERIES **H5901**

Ordering code



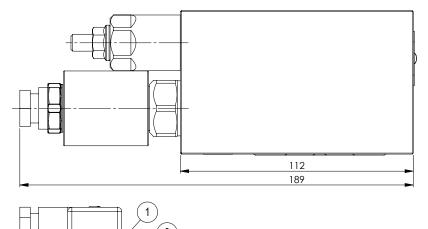
^{*} Omit if not required. To order the product without the pressure relief cartridge valves, omit the pressure range and the adjustment type options: H5901S.

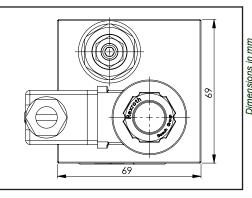


Cetop 5 modular relief valve on A electrically enabled

H5921

В

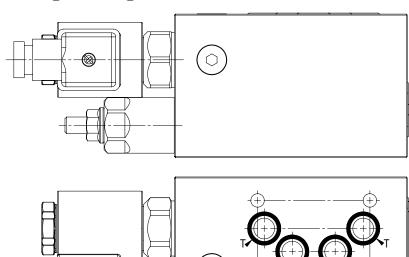


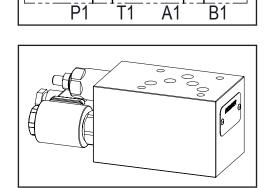


	TA TB TT TS
3	67

Technical data		
Max. pressure	250 bar	
Max. flow	70 lpm *	
Weight	1,9 Kg	
Manifold material	Aluminium	

Р





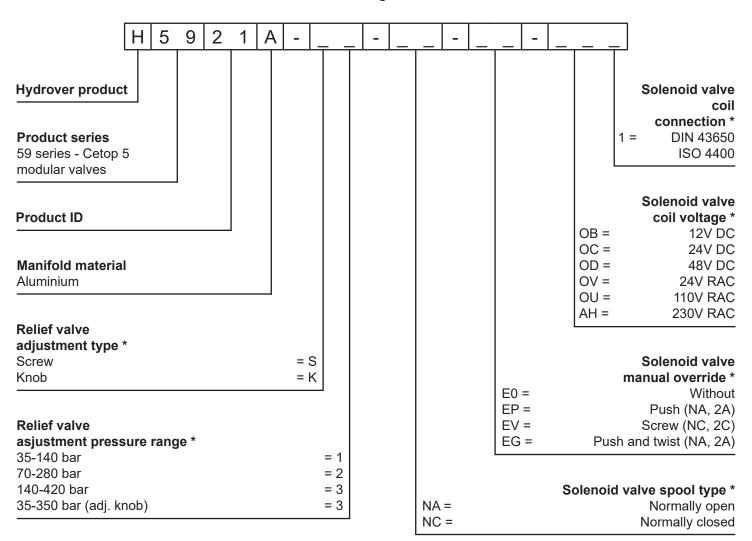
N°	Description	Q.ty
1	Connector DIN 43650 ISO 4400	1
2	Bosch Rexroth relief valve VSPN-10A* depicted with screw adjustment	1
3	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	
4	Bosch Rexroth solenoid valve VEI-16-10A-NC OD.15.05.36-Y-000000 or VEI-16-10A-NA OD.15.06.36-Y-000000 depicted without manual override *	
5	Ø 6,5 through hole for mounting	4
6	OR 2050 i. Ø 12,42 cross section 1,78	5

(6



59 SERIES **H5921**

Ordering code

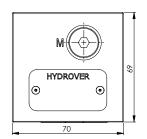


^{*} Omit if not required. For example to order the product without the relief cartridge valve, omit the pressure range and adjustment type options: eg. H5921A-NC-E0-OC1.

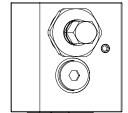
Cetop 5 modular pressure reducing valve on P

H5915

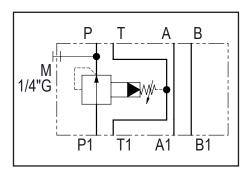
Dimensions in mm





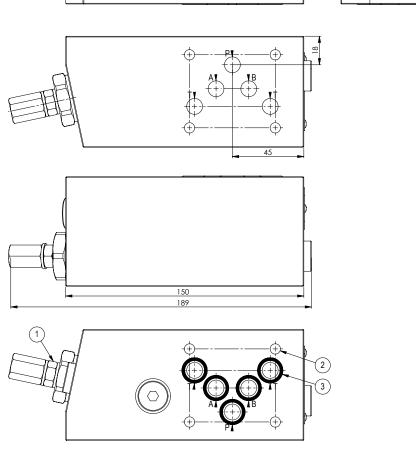


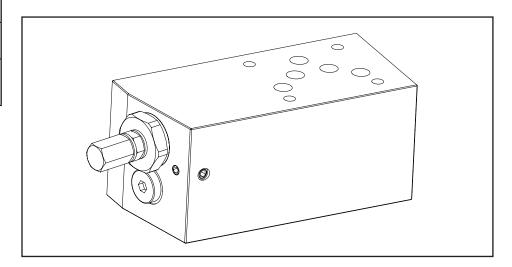
Technical data		
Max. pressure	250 bar	
Max. flow	120 lpm *	
Weight	2 Kg	
Manifold material	Aluminium	
M port	1/4"G	



N°	Description	Q.ty
1	Bosch Rexroth pressure reducing valve VRP- 150* depicted with screw adjustment	1
2	Ø 6,5 through hole for mounting	4
3	OR 2050 i. Ø 12,42 cross section 1,78	5

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

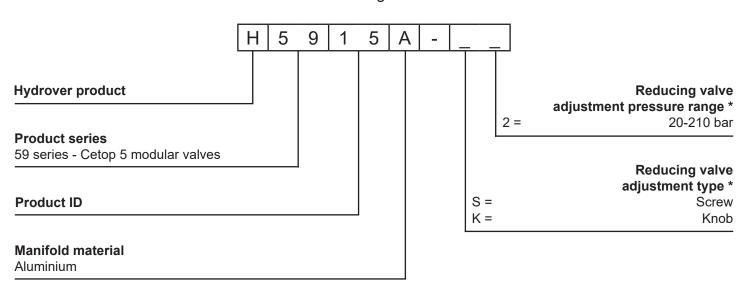






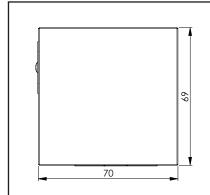
59 SERIES **H5915**

Ordering code

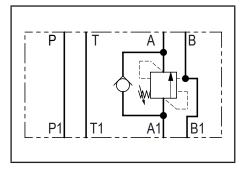


^{*} Omit if not required. To order the product without the pressure relief cartridge valve, omit the pressure range and the adjustment type options: H5915A.

Cetop 5 modular counterbalance valve on A / 50 lpm

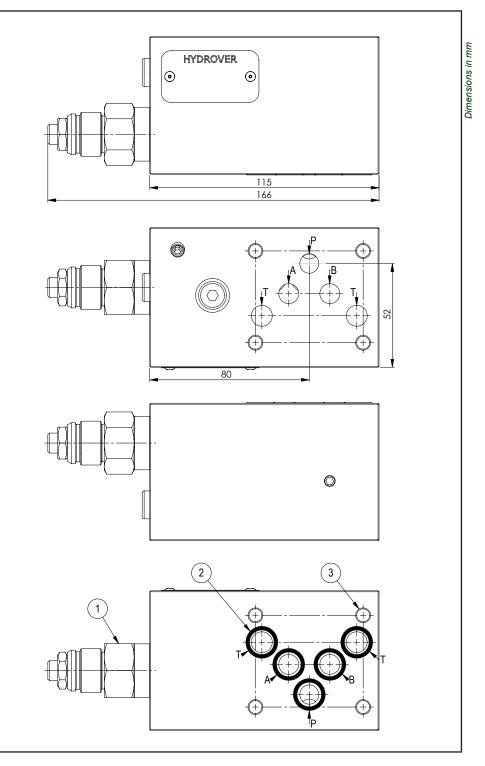


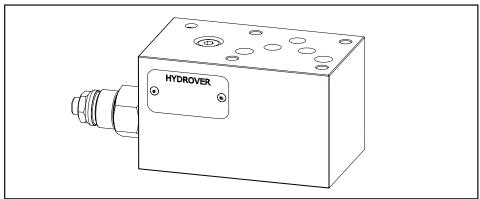
Technical data		
Max. pressure	250 bar	
Max. flow	50 lpm *	
Weight	1,6 Kg	
Manifold material	Aluminium	



N°	Description	Q.ty
1	Bosch Rexroth counterbalance valve VBSN-10A *	1
2	OR 2050 i. Ø 12,42 cross section 1,78	5
3	Ø 6,5 through hole for mounting	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

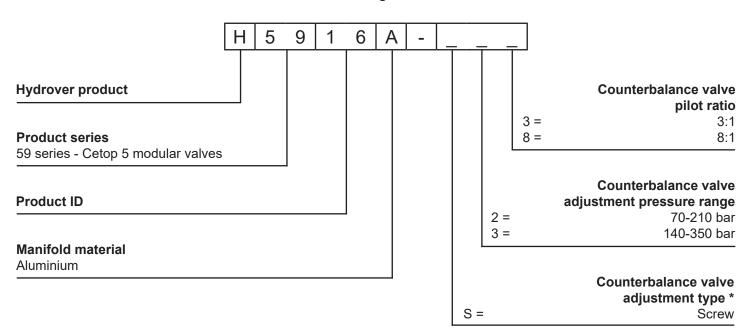




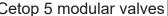


59 SERIES **H5916**

Ordering code



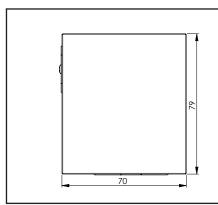
^{*} Omit if not required. To order the product without the counterbalance cartridge valve, omit the adjustment type, pressure range and pilot ratio options: H5916A.



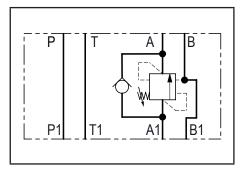
H5917

HYDROVER

Cetop 5 modular counterbalance valve on A / 100 lpm

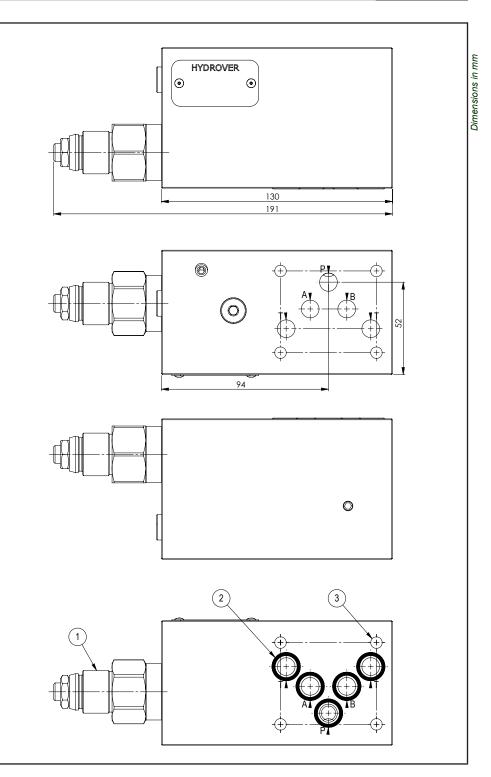


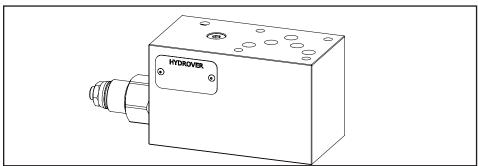
Technical data		
Max. pressure	250 bar	
Max. flow	100 lpm *	
Weight	2,3 Kg	
Manifold material	Aluminium	



N°	Description	Q.ty
1	Bosch Rexroth counterbalance valve VBSN-12A *	1
2	OR 2050 i. Ø 12,42 cross section 1,78	5
3	Ø 6,5 through hole for mounting	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

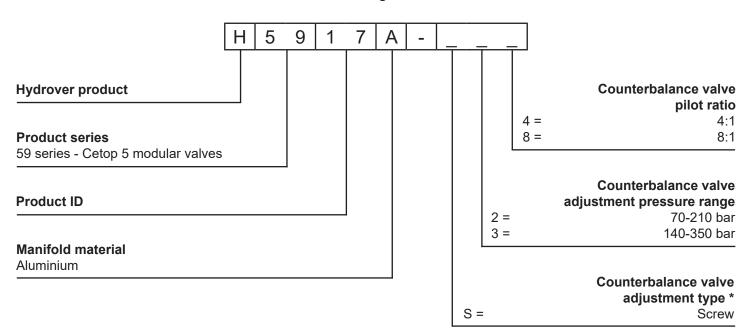






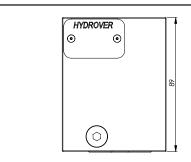
59 SERIES **H5917**

Ordering code

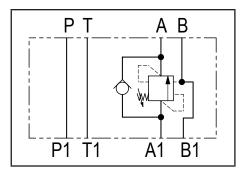


^{*} Omit if not required. To order the product without the counterbalance cartridge valve, omit the adjustment type, pressure range and pilot ratio options: H5917A.

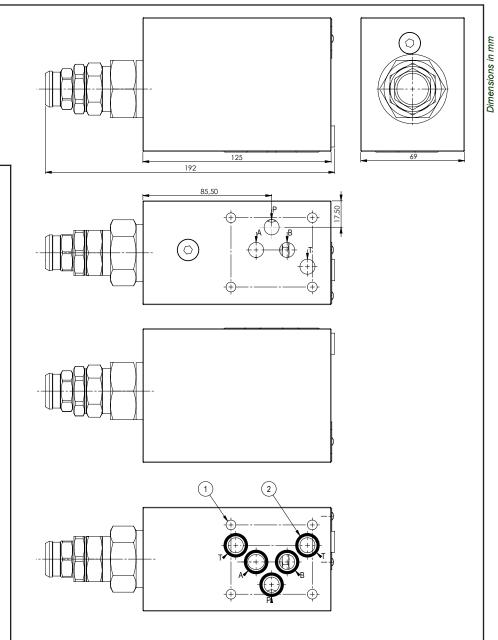
Cetop 5 modular counterbalance on A / 130 lpm

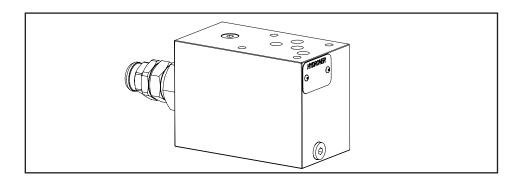


Technical data		
Max. pressure 350 bar		
Max. flow	130 lpm *	
Pilot ratio	4:1	
Weight	6 Kg	
Manifold material	Steel	



N°	Description	Q.ty
1	Ø 6,5 through hole for mounting	4
2	OR 2050 i. Ø 12,42 cross section 1,78	5
3	Bosch Rexroth counterbalance valve VBSO-SEC-33	1

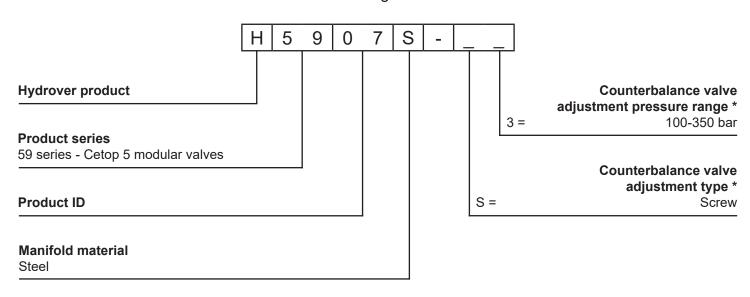






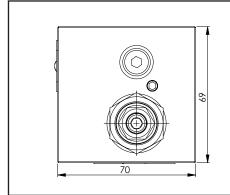
59 SERIES **H5907**

Ordering code

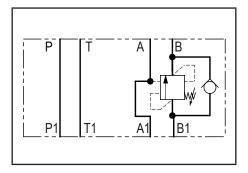


^{*} Omit if not required. To order the product without the counterbalance cartridge valve, omit the adjustment type and pressure range options: H5907S.

Cetop 5 modular counterbalance valve on B / 50 lpm

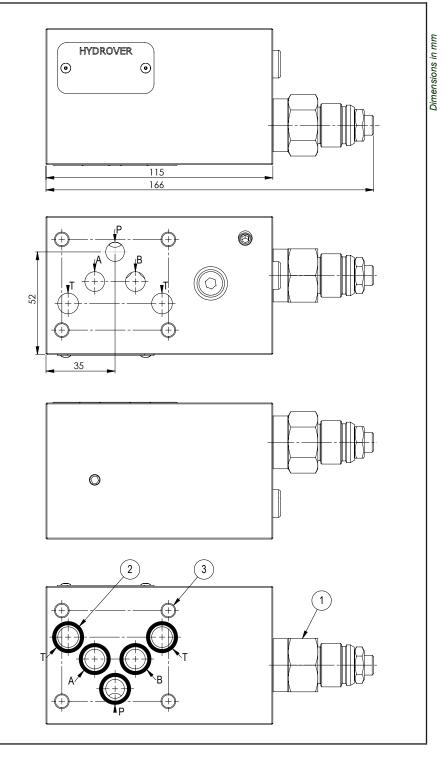


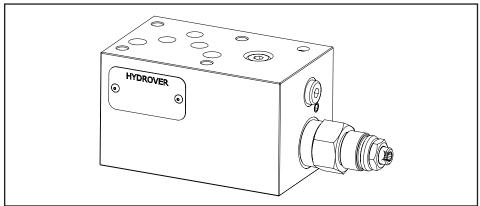
Technical data		
Max. pressure	250 bar	
Max. flow	50 lpm *	
Weight	1,6 Kg	
Manifold material	Aluminium	



N°	Description	Q.ty
1	Bosch Rexroth counterbalance valve VBSN-10A *	1
2	OR 2050 i. Ø 12,42 cross section 1,78	5
3	Ø 6,5 through hole for mounting	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

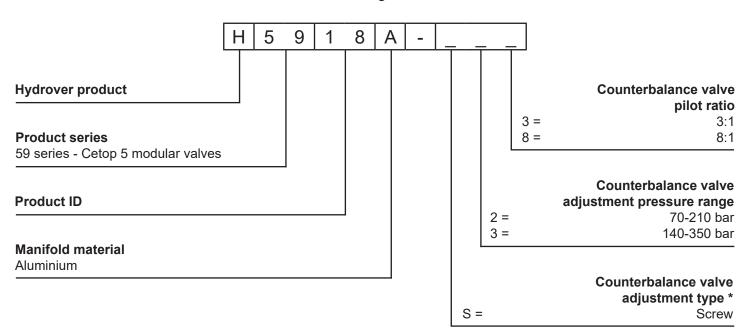






59 SERIES **H5918**

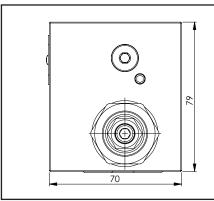
Ordering code



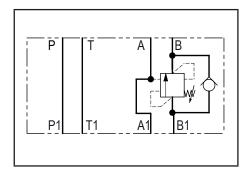
^{*} Omit if not required. To order the product without the counterbalance cartridge valve, omit the adjustment type, pressure range and pilot ratio options: H5918A.



Cetop 5 modular counterbalance valve on B / 100 lpm

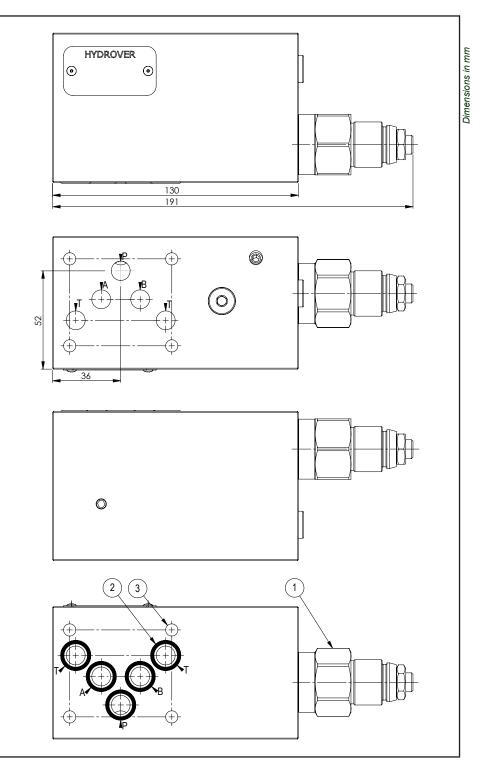


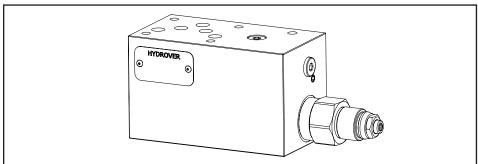
Technical data	
Max. pressure	250 bar
Max. flow	100 lpm *
Weight	2,3 Kg
Manifold material	Aluminium



N°	Description	Q.ty
1	Bosch Rexroth counterbalance valve VBSN-12A *	1
2	OR 2050 i. Ø 12,42 cross section 1,78	5
3	Ø 6,5 through hole for mounting	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

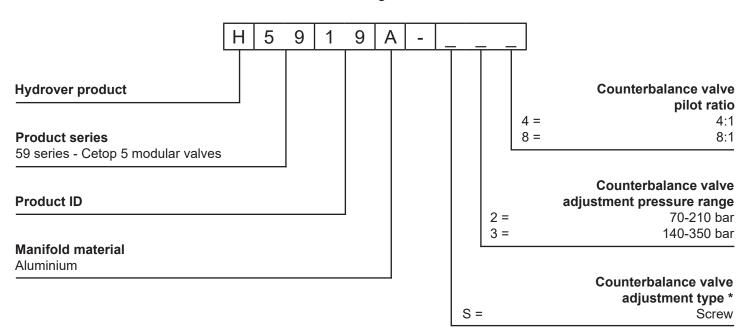






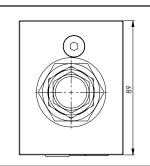
59 SERIES **H5919**

Ordering code

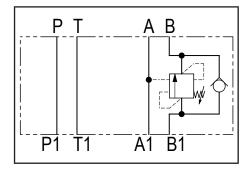


^{*} Omit if not required. To order the product without the counterbalance cartridge valve, omit the adjustment type, pressure range and pilot ratio options: H5919A.

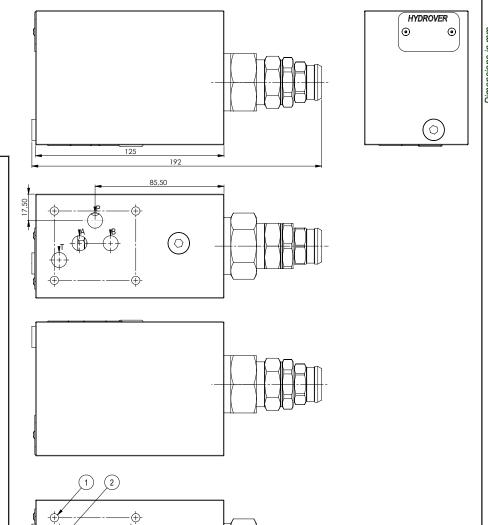
Cetop 5 modular counterbalance valve on B / 130 lpm

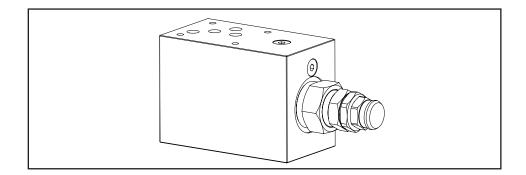


Technical data	
Max. pressure	350 bar
Max. flow	130 lpm *
Pilot ratio	4:1
Weight	6 Kg
Manifold material	Steel



N°	Description	Q.ty
1	Ø 6,5 through hole for mounting	4
2	OR 2050 i. Ø 12,42 cross section 1,78	5
3	Bosch Rexroth counterbalance valve VBSO-SEC-33	1

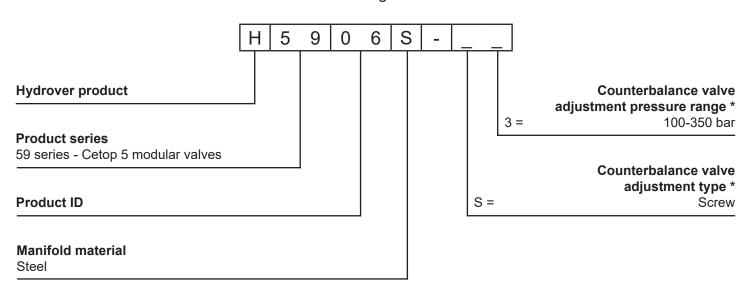






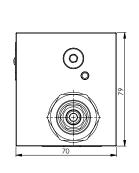
59 SERIES **H5906**

Ordering code

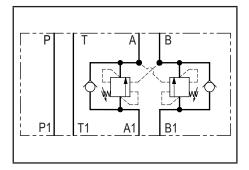


^{*} Omit if not required. To order the product without the counterbalance cartridge valve, omit the adjustment type and pressure range options: H5906S.

Cetop 5 modular counterbalance valve on A and B / 100 lpm

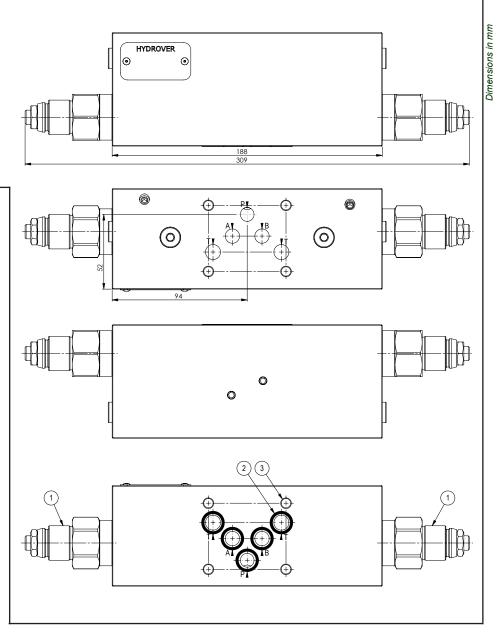


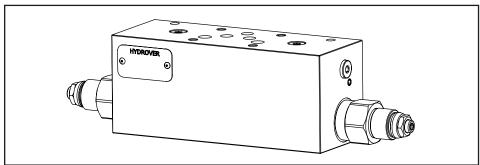
Technical data	
Max. pressure	250 bar
Max. flow	100 lpm *
Weight	3,4 Kg
Manifold material	Aluminium



N°	Description	Q.ty
1	Bosch Rexroth counterbalance valve VBSN-12A *	2
2	OR 2050 i. Ø 12,42 cross section 1,78	5
3	Ø 6,5 through hole for mounting	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

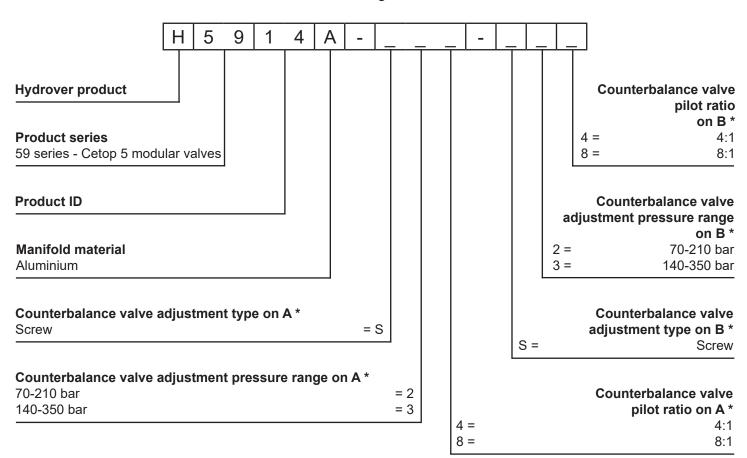






59 SERIES **H5914**

Ordering code

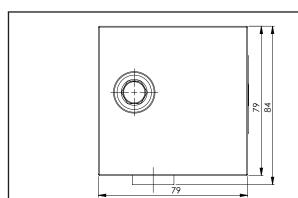


^{*} Omit if not required. To order the product without the counterbalance cartridge valves, omit the adjustment type, pressure range and pilot ratio options: H5914A.

H5905

HYDROUER

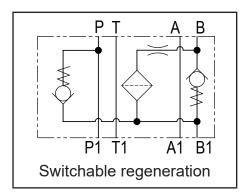
Cetop 5 modular valve with permanent or switchable regenerative control

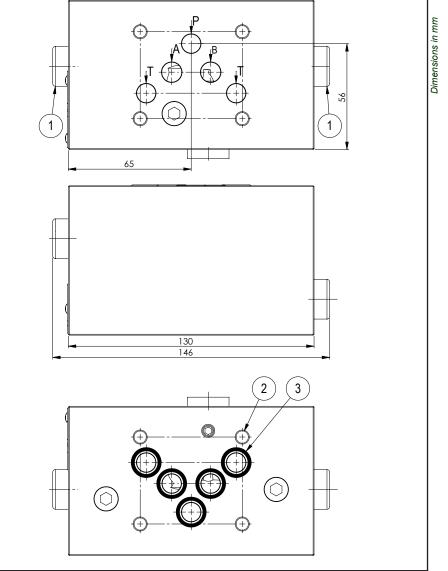


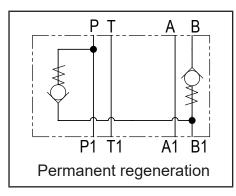
Technical data	
Max. pressure	350 bar
Input max. flow	60 lpm*
Regenerated max. flow	60 lpm*

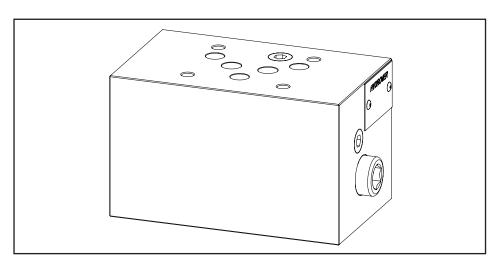
* The sum of both must not exceed the maximum flow rate allowed by the Cetop 5 solenoid valve.

Weight	2,2 Kg
Manifold material	Steel



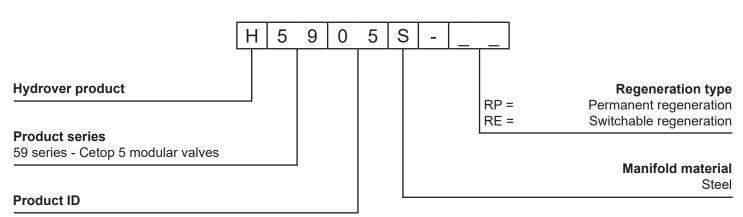


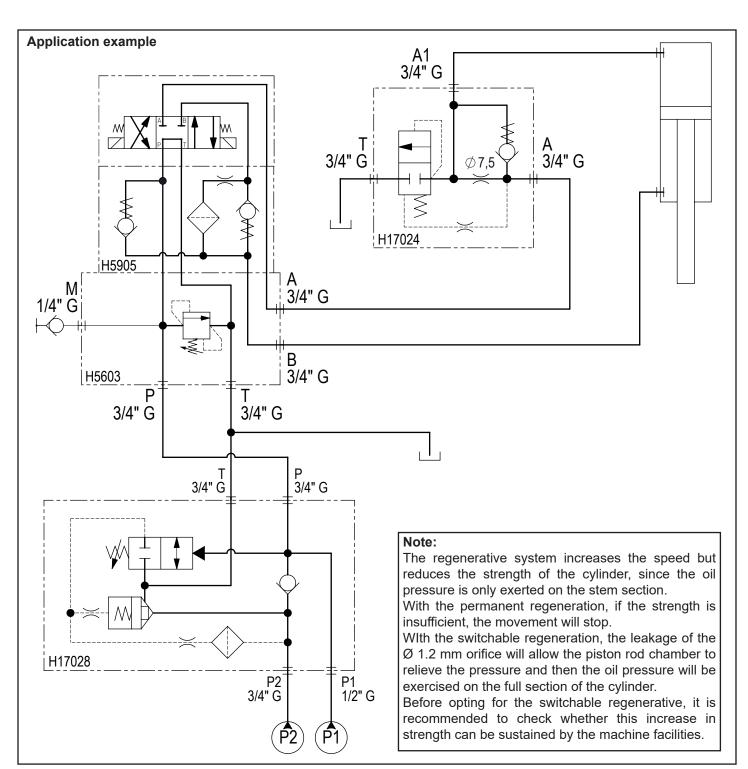




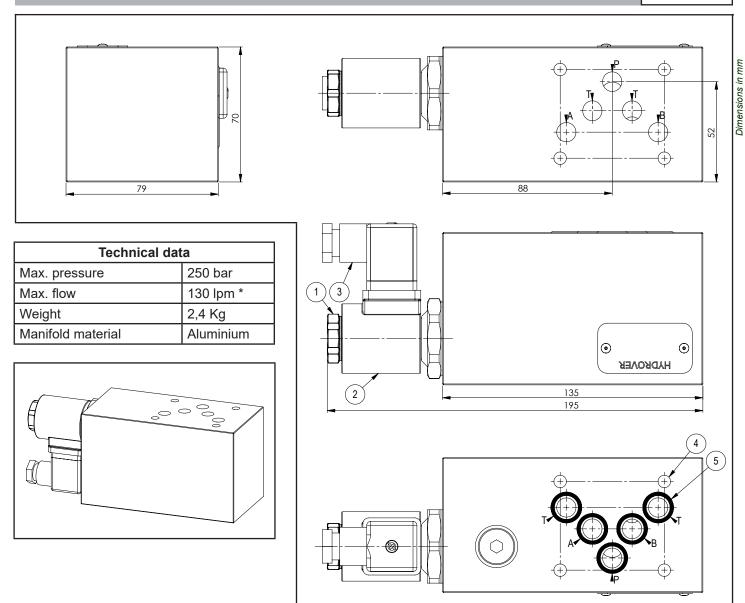
N°	Description	Q.ty
1	Bosch Rexroth check valve VUM1.060	2
2	Ø 6,5 through hole for mounting	4
3	OR 2050 i. Ø 12,42 cross section 1,78	5

Ordering code





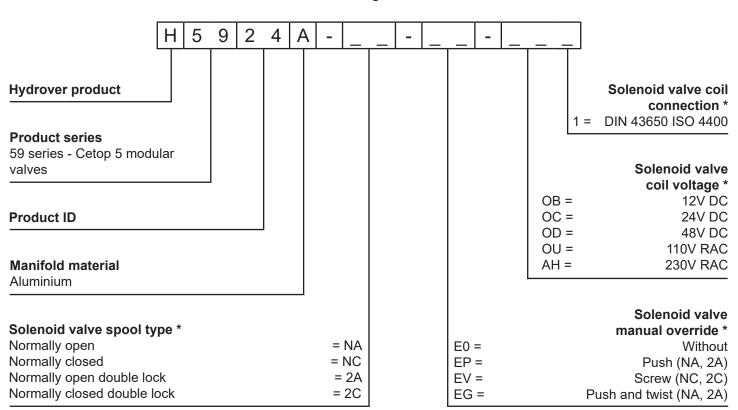
Cetop 5 modular poppet type solenoid operated directional valve between P1 and P



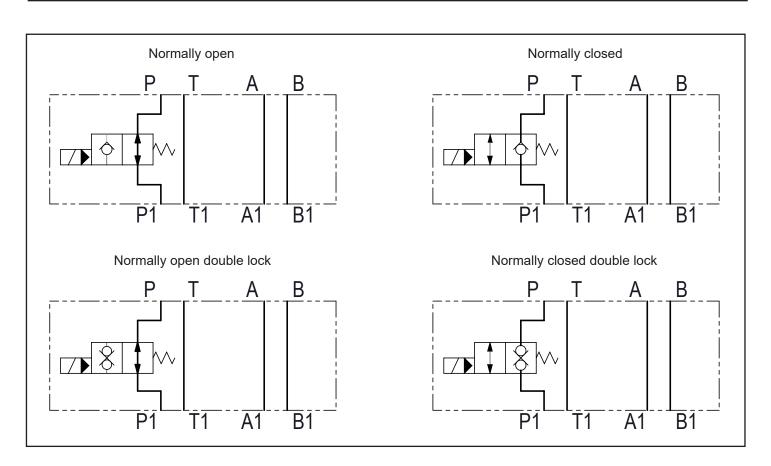
N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-021-NC OD.15-X-21-Y-000000 * (normally closed) or VEI-16-021-NA OD.15-X-21-Y-000000 * (normally open)	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
3	Connector DIN 43650 ISO 4400	1
4	Ø 6,5 through hole for mounting	4
5	OR 2050 i. Ø 12,42 cross section 1,78	5

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

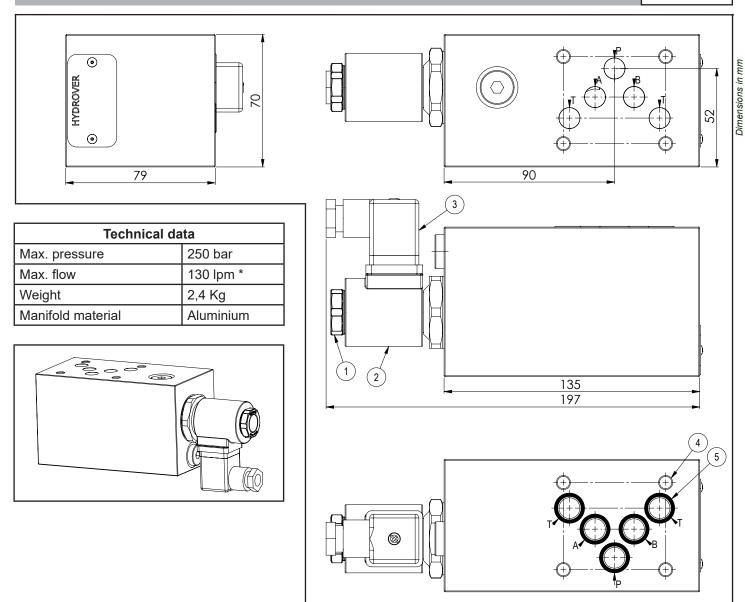
Ordering code



^{*} Omit if not required. For example, to order the product without coil, omit the solenoid valve coil connection and coil voltage options: H5924A-NC-E0.



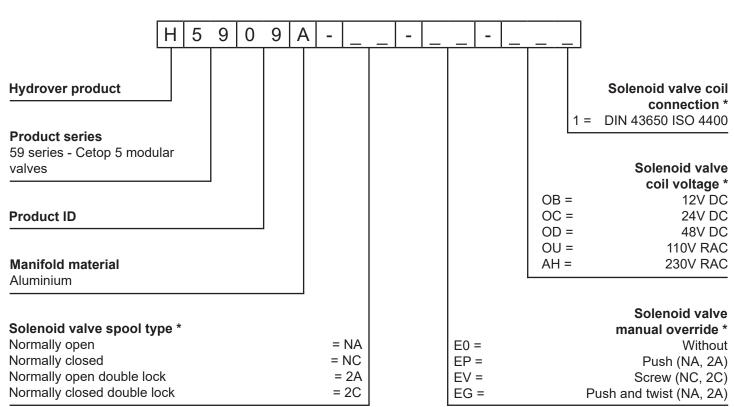
Cetop 5 modular poppet type solenoid operated directional valve between A1 and A



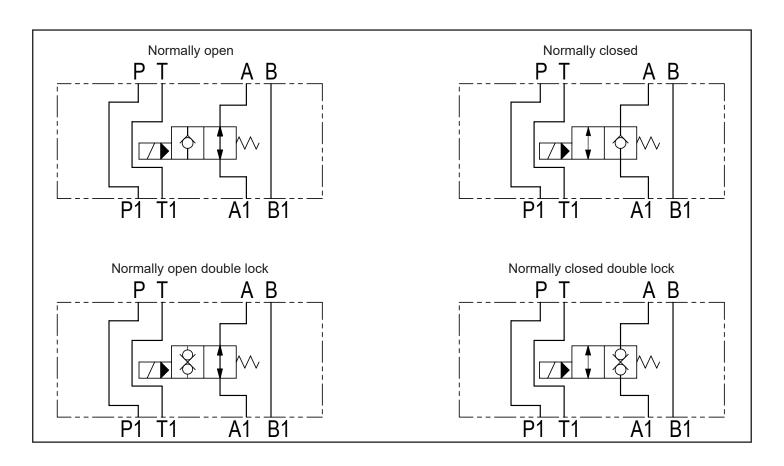
N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-021-NC OD.15-X-21-Y-000000 * (normally closed) or VEI-16-021-NA OD.15-X-21-Y-000000 * (normally open)	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
3	Connector DIN 43650 ISO 4400	1
4	Ø 6,5 through hole for mounting	4
5	OR 2050 i. Ø 12,42 cross section 1,78	5

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

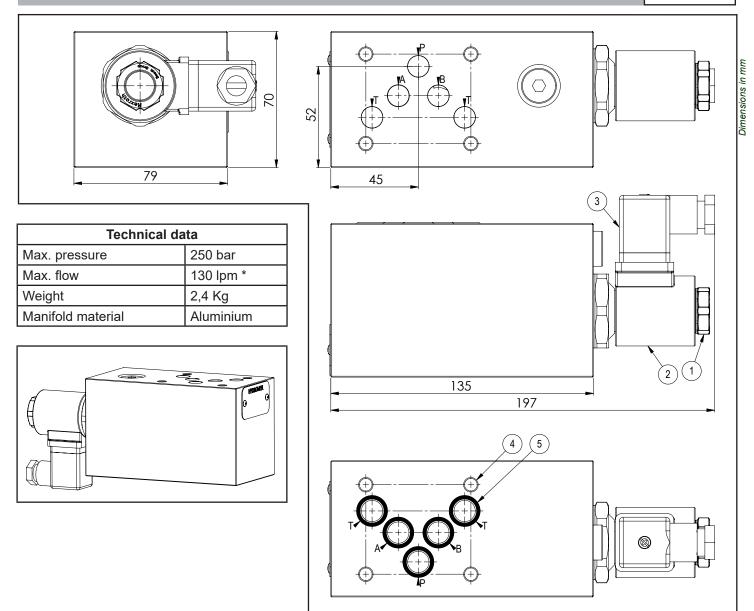
Ordering code



^{*} Omit if not required. For example, to order the product without coil, omit the solenoid valve coil connection and coil voltage options: H5909A-NC-E0.



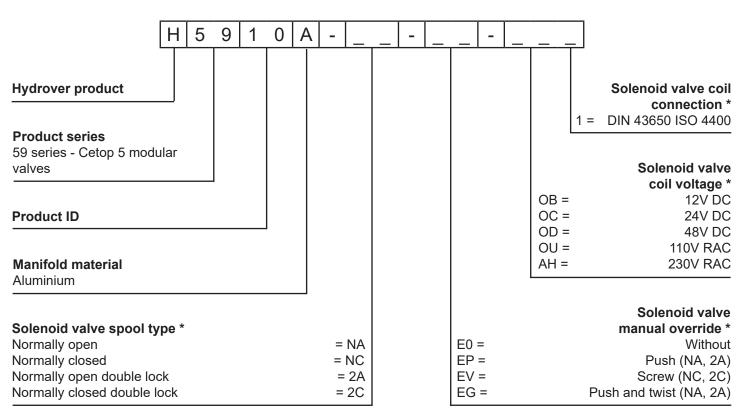
Cetop 5 modular poppet type solenoid operated directional valve between B1 and B



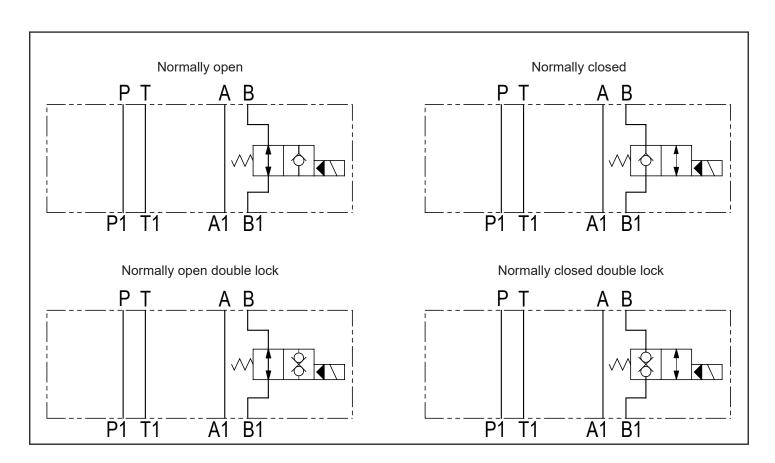
N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-021-NC OD.15-X-21-Y-000000 * (normally closed) or VEI-16-021-NA OD.15-X-21-Y-000000 * (normally open)	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
3	Connector DIN 43650 ISO 4400	1
4	Ø 6,5 through hole for mounting	4
5	OR 2050 i. Ø 12,42 cross section 1,78	5

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

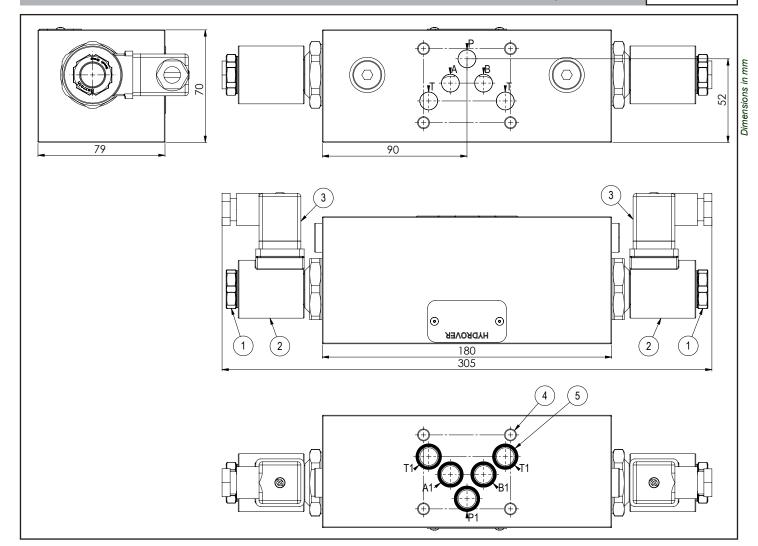
Ordering code



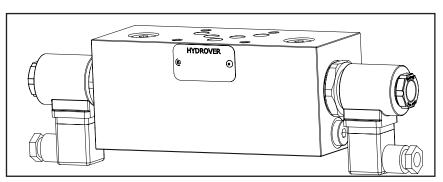
^{*} Omit if not required. For example, to order the product without coil, omit the solenoid valve coil connection and coil voltage options: H5910A-NC-E0.



Cetop 5 modular poppet type solenoid operated directional valves between A1 and A / B1 and B



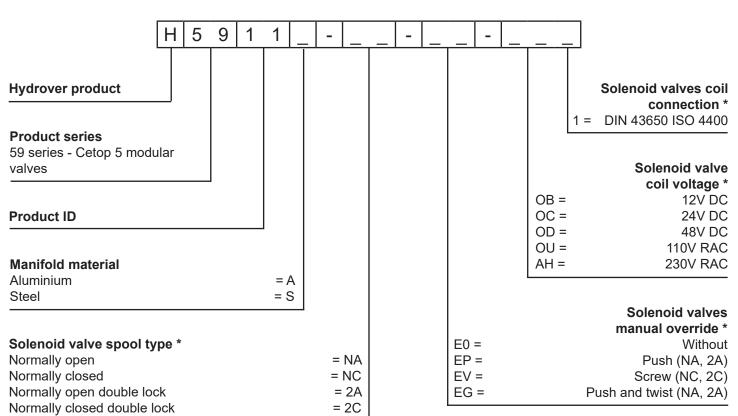
Technical data			
Max. pressure	Aluminium: Steel:	250 bar 350 bar	
Max. flow	130 lpm *		
Weight	Aluminium: Steel:	3,6 Kg 7,7 Kg	
Manifold material	Aluminium or steel		



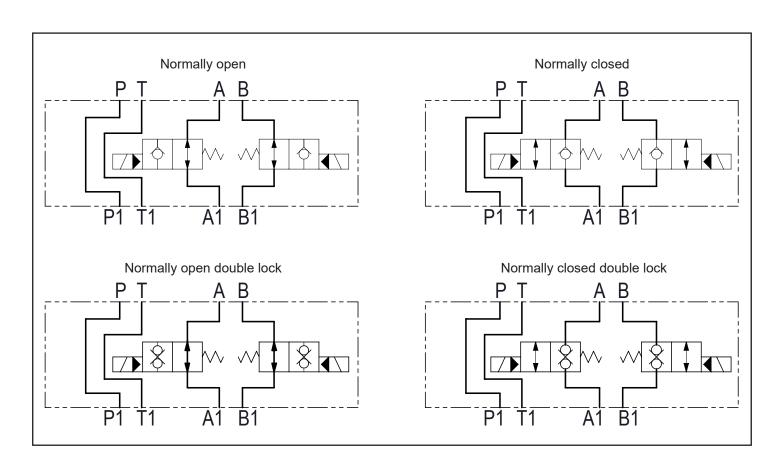
N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16-021-NC OD.15-X-21-Y-000000 * (normally closed) or VEI-16-021-NA OD.15-X-21-Y-000000 * (normally open)	2
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	2
3	Connector DIN 43650 ISO 4400	2
4	Ø 6,5 through hole for mounting	4
5	OR 2050 i. Ø 12,42 cross section 1,78	5

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

Ordering code

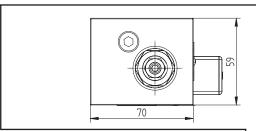


^{*} Omit if not required. For example, to order the product without coils, omit the solenoid valves coil connection and coil voltage options: H5911A-NC-E0.

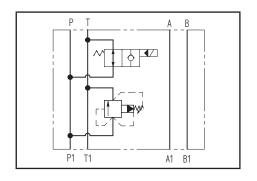


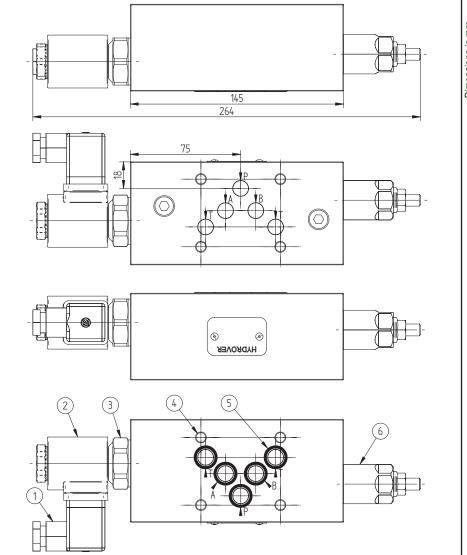
Cetop 5 modular relief and bypass valve

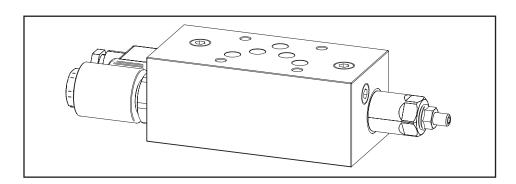




Technical data		
Max. pressure	250 bar	
Max. flow	70 lpm *	
Weight	2,1 Kg	
Manifold material	Aluminium	







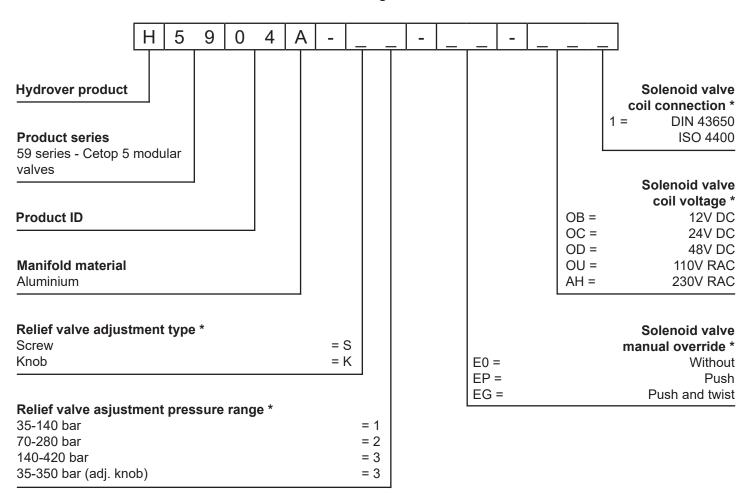
N°	Description	Q.ty
1	Connector DIN 43650 ISO 4400	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
3	Bosch Rexroth solenoid valve OD.15.06.17-Y-000000 depicted without manual override *	1
4	Ø 6,5 through hole for mounting	4
5	OR 2050 i. Ø 12,42 cross section 1,78	5
6	Bosch Rexroth relief valve VSPN-10A* depicted with screw adjustment	1

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



59 SERIES **H5904**

Ordering code



^{*} Omit if not required. To order the product without the relief cartridge valve, omit the pressure range and adjustment type options: eg. H5904A-E0-OC1.

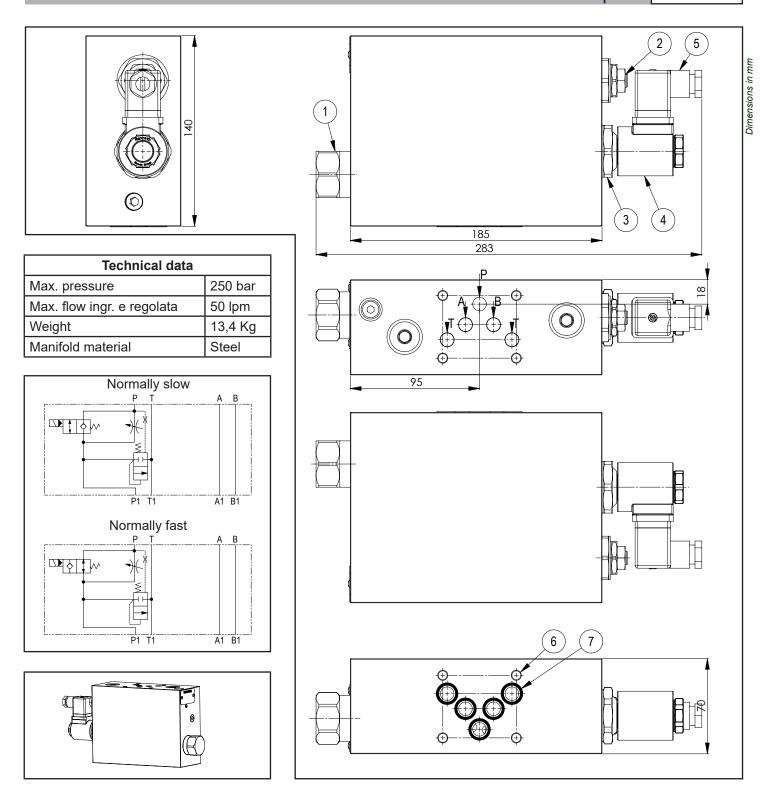
The manifold will still be provided with the corrisponding cavity.

To inhibit the relief cartridge valve, replace the related options with TL: eg. H5904A-TL-E0-OC1.

In the cavity it will be mounted a long plug.

Valve	Cavity	Long plug code
Pressure relief valve VSPN-10A	CA-10A-2N	0489A2008500000

Cetop 5 modular valve with 3 way compensated flow regulation on P and fast slow speed

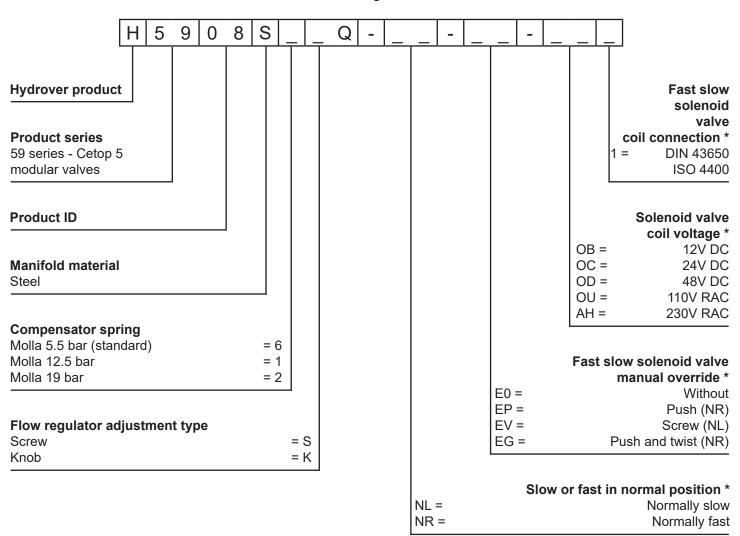


N°	Description	Q.ty
1	Pressure compensator	1
2	Bosch Rexroth bidirectional flow restrictor OD.21.01-X-04 * depicted with screw adjustment	1
3	Bosch Rexroth solenoid valve for fast slow function VEI-16-021-NC OD.15.05.21-Y-000000 * (normally slow) o VEI-16-021-NA OD.15.06.21-Y-000000 * (normally fast)	1
4	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
5	Connector DIN 43650 ISO 4400	1
6	Ø 6,5 through hole for mounting	4
7	OR 2050 i. Ø 12,42 cross section 1,78	5

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

59 SERIES **H5908**

Ordering code



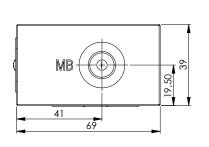
^{*} Omit if not required. To order the product without the fast slow solenoid cartridge valve, omit the slow or fast in normal position, manual override, coil voltage and coil connection options: eg. H5908S1SQ.

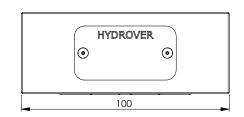
The manifold will still be provided with the corrisponding cavity.

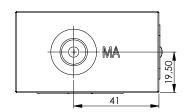
To inhibit the fast slow speed function, replace the related solenoid valve options with TL: eg H5908S1SQ-TL. In the cavity it will be mounted a long plug.

Valve	Cavity	Long plug code
Solenoid valve VEI-16-021-NC OD.15.05.21-Y-000000 / VEI-16-021-NA OD.15.06.21-Y-000000	021-E	R-800-015

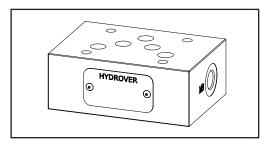
Cetop 5 modular manifold with side additional A-B ports 1/4"G

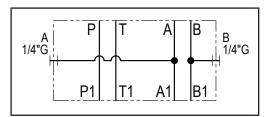




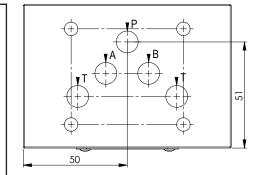


Technical data		
Max. pressure	250 bar	
Weight	0,7 kg	
Manifold material	Aluminium	
A / B ports	1/4" G	

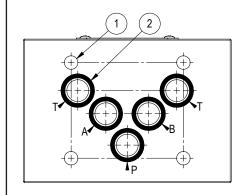




N°	Description	Q.ty
1	Ø 6,5 through hole for mounting	4
2	OR 2050 i. Ø 12,42 cross section 1,78	5

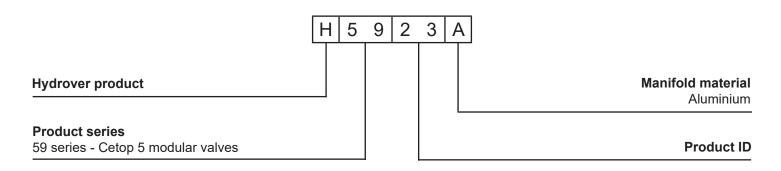








59 SERIES **H5923**





ELECTRONIC CONTROLS



Single proportional control / octal

H6101

Introduction

This electronic control it's been developed to drive a solenoid proportional valve without integrated position transducer. The device is enclosed in a "OCTAL" plastic container with 8 pin standard circular connector (the typical circular relays

The output stage operates in PWM high-frequency modulation and produces a sinusoidal dither signal whose value can be varied between 80 and 220Hz to fit most existing valve cursors.

The integrated current feedback allows a fine control versus solenoid temperature variations. The circuit also integrates a short-circuit protection, which is signaled by its overloaded LED (O. LOAD) and protection for supply voltage inversion. The green LED (SUPPLY) signals power supply presence, the two yellow LED (OUT A e OUT B) indicate the driving of the solenoid.

Minimum current (I.MIN), Maximum current (I.MAX), Rise ramp (R.UP) and Fall ramp (R.DW) can be calibrated with the trimmer on frontal panel.

Ramps can be excluded shorting input RAMP CONTROL (8) to supply voltage (the red LED "R.OFF" lights).

You can drive the valve wiring a 5 K Ohm or 10 K Ohm, potentiometer between pin 4 (+5V) and pin 1 (0V) with the tap on pin 3 (ref.) or giving a voltage (or current) reference between pin 3 (Ref.) and 0V pin 1 (-).

Electrical wiring

Wiring the card following the electric diagram and don't apply supply. Turn all the trimmer counterclockwise almost for ten turns, set the external potentiometer tap or the reference to zero. Turn on the card, check if the greed led lights up and the yellow led stay off (no driving to the valve(s)). If not as described above, check wiring and if the external pot. tap is really turned to 0V.

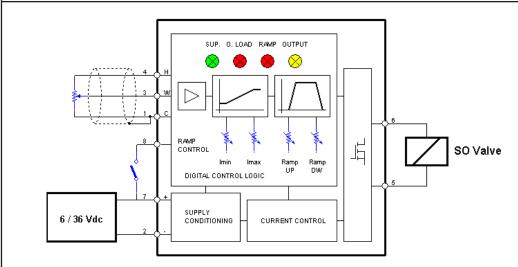


Diagram 1

- Pot. 0V
- 2. Supply -
- 3. Pot. tap
- 4. Pot. +5V
- 5. Solenoid -Solenoid +
- 6.
- Supply +

Ramp control

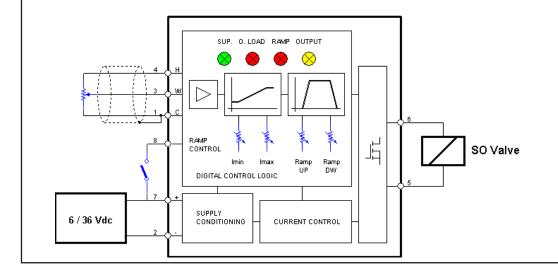


Diagram 2

- 1.
- 2. Supply -
- Reference (V or I) 3.
- 4.
- 5. Solenoid -
- 6. Solenoid +
- 7. + vlqquZ
- Ramp control

Current calibration

Turn the external potentiometer or the external reference to the minimum value that lights up the yellow led (OUT A on) and turn the trimmer I MIN until you obtain the minimum current required to drive the solenoid (see valve datasheet). Turn the external potentiometer or the external reference to its maximum value and then turn the trimmer I MAX until you obtain the maximum current required by the solenoid (see valve datasheet). Current value can be read inserting a voltmeter's tips in the red and black socket on PROPEL panel. You will read 1 VDC = 1Amp.

Ramps setup

If start and stop ramps are needed, disconnect the input on pin 8 (red led RAMP OFF turns off) and utilize the trimmer R.UP, R.DW to fix the rise and fall time needed. If you don't need ramps, simply short pin 8, Ramp Control, to +V (pin 7), the red led RAMP OFF turns on and the ramps will be disabled.

Dip-Switch setup

As you can see in the table below, the dither frequency can be fixed from 80Hz to 220Hz, refer to the solenoid datasheet to know the best dither frequency to use. Dip switch 1-2-3 fixes the various frequency.

	,		
1	2	3	Dither
OFF	OFF	OFF	80 Hz
OFF	OFF	ON	100 Hz
OFF	ON	OFF	120 Hz
OFF	ON	ON	140 Hz
ON	OFF	OFF	160 Hz
ON	OFF	ON	180 Hz
ON	ON	OFF	200 Hz
ON	ON	ON	220 Hz

Dip-switch 5 fixes the maximum output current allowable for the valve (OFF->1A, ON->2A)

Dip-switch -6-7-8 setup the input configuration, see the table below for the various possibilities:

6	7	8	Input (Pin 3)
OFF	OFF	OFF	0-5 V, Potenz. (diagram 1)
OFF	OFF	ON	0-10 V (diagram 2)
ON	OFF	OFF	0-20 mA (diagram 2)

Normal operation

Technical data

Once you have ended the above setup, the system is ready to control the valves. Giving a set point to the input (~500mV when you use the potentiometer) the current flows to the solenoid starting from the minimum current, fixed with the trimmer I MIN, to the maximum current, fixed with the trimmer I MAX, when the set point is at maximum value.

Of course the current to the valves will rise or fall with the time imposed by the ramps, if you disabled the ramps, the current will change immediately.



Ordering code

0

Hydrover product

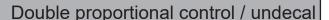
Product ID

Product series

61 series - Electronic controls

1

6



H6102

Introduction

HYDROUER

This electronic control it's been developed to drive a double solenoid proportional valve without integrated position transducer. The device is enclosed in a "UNDECAL" plastic container with 11 pin standard circular connector (the typical circular relavs connector).

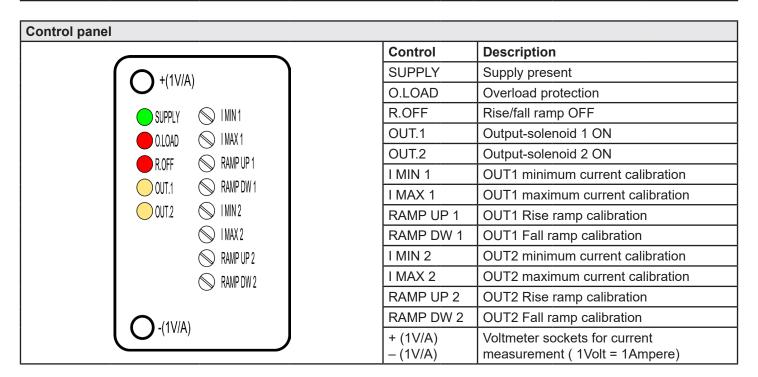
The output stage operates in PWM high-frequency modulation and produces a sinusoidal dither signal whose value can be varied between 80 and 220Hz to fit most existing valve cursors.

The integrated current feedback allows a fine control versus solenoid temperature variations. The circuit also integrates a short-circuit protection, which is signaled by its overloaded LED (O. LOAD) and protection for supply voltage inversion. The green LED (SUPPLY) signals power supply presence, the two yellow LED (OUT A e OUT B) indicate the driving of the solenoid.

Minimum current (I.MIN), maximum current (I.MAX), rise ramp (R.UP) and fall ramp (R.DW) can be calibrated with the trimmer on frontal panel.

Ramps can be excluded shorting input RAMP CONTROL (3) to supply voltage (the red LED "R.OFF" lights).

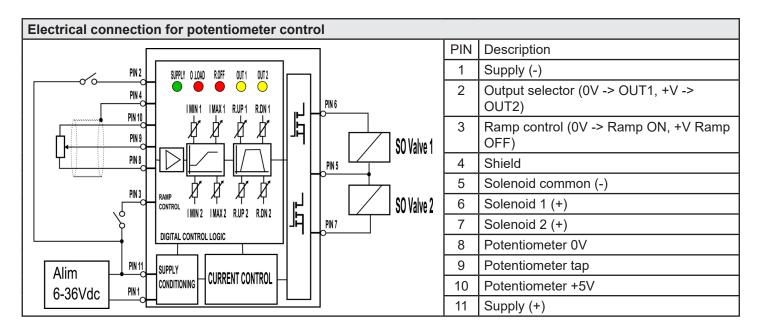
You can drive the valve(s) wiring a 5 K Ohm or 10 K Ohm, potentiometer between pin 10 (+5V) and pin 8 (0V) with the tap on pin 9 (ref.) or giving a reference set point between pin 9 (Ref.1) or pin 2 (Ref.2) and 0V pin 2 (-).

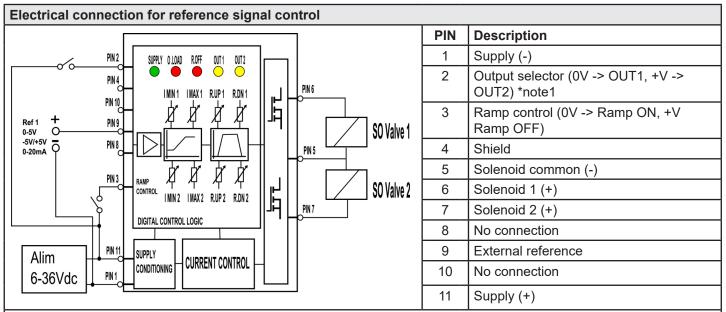


Electric wiring

Wiring the card following the electric diagram and don't apply supply. Turn all the trimmer counterclockwise almost for ten turns, set the external potentiometer tap or the set point to midway (remember that you are using a double valve system). Turn on the card, check if the greed led lights up and the yellow led stay off (no driving to the valve(s)). If not as described above, check wiring and if the external pot. tap is really turned to midway.







*Note1: in case of +5V/-5V input control signal, pin 2 works as output enable, in all other case pin 2 works as output selector.

Current calibration

Turn the external potentiometer or the external reference set point to the minimum value that lights up the yellow LED (OUT1 ON) and turn the trimmer I MIN until you obtain the minimum current required to drive the solenoid and open valve cursor(see valve datasheet).

Turn the external potentiometer or the external reference set point to its maximum value and then turn the trimmer I MAX until you obtain the maximum current required by the solenoid (see valve datasheet). Current value can be read inserting a voltmeter's tips in the red and black socket on PROPEL panel. You will read 1 VDC = 1Amp.

Repeat the above operations for OUT 2 selecting Pin 2 ON (+V)

Ramps setup

If start and stop ramps are needed, disconnect the input pin 3 (red LED R.OFF turns off) and utilize the trimmer R.UP (1 and 2), R.DW (1 and 2) to fix the rise and fall time needed.

If you don't need ramps, simply short pin 3, Ramp Control, to +V (pin 11), the red led R. OFF turns on and the ramps will be disabled.

Dip-Switch setup

As you can see in the table below, the dither frequency can be fixed from 80Hz to 220Hz. Dip switch 1-2-3 fixes the various frequency.

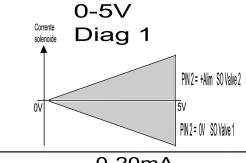
1	2	3	Freq dither
OFF	OFF	OFF	80Hz
ON	OFF	OFF	90Hz
OFF	ON	OFF	100Hz
ON	ON	OFF	110Hz
OFF	OFF	ON	120HZ
ON	OFF	ON	140Hz
OFF	ON	ON	160Hz
ON	ON	ON	180Hz

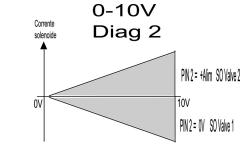
Dip-switch 4 fixes the the dither level percentage.

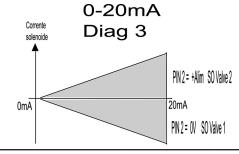
DIP4	% dither
OFF	MAX
ON	MIN

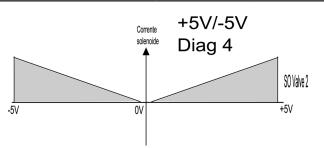
Dip-switch 6-7-8-12 setup the reference input type and the functionality of the input PIN 2.

			• •			
DIP6	DIP7	DIP8	DIP12	Reference input	PIN 2	See image
OFF	OFF	OFF	OFF	0-5V or potentiometer	OUT selector	DIAG 1
OFF	OFF	ON	OFF	0-10V	OUT selector	DIAG 2
ON	OFF	OFF	OFF	0-20mA	OUT selector	DIAG 3
OFF	ON	OFF	ON	+5V 0 -5V	OUT enable	DIAG 4









Working

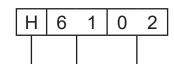
Once you have ended the above setup, the system is ready to control the valves.

Giving a set point to the input (~200mV when you use the potentiometer) the current flows to the solenoid starting from the minimum current, fixed with the trimmer I MIN, to the maximum current, fixed with the trimmer I MAX, when the set point is at maximum value.

Of course the current to the valves will rise or fall with the time imposed by the ramps, if you disabled the ramps, the current will change immediately.



Technical data	
Operating Voltage	12 ÷ 28 VDC
Max Operating Voltage	36 VDC
Nominal Power	
Nominal current	2,8A (12V) - 1,4A (24V)
Supply to external potentiometer	+5V
Minimum current swing (I min.)	0 ÷ 50%
Maximum current swing (I max.)	I Min ÷ 100%
Ramp time swing (R. up. – R. Dw.)	0 ÷ 10 sec.
Working temperature	
Potentiometric input ADC resolution	10 bit



Hydrover product

Product ID

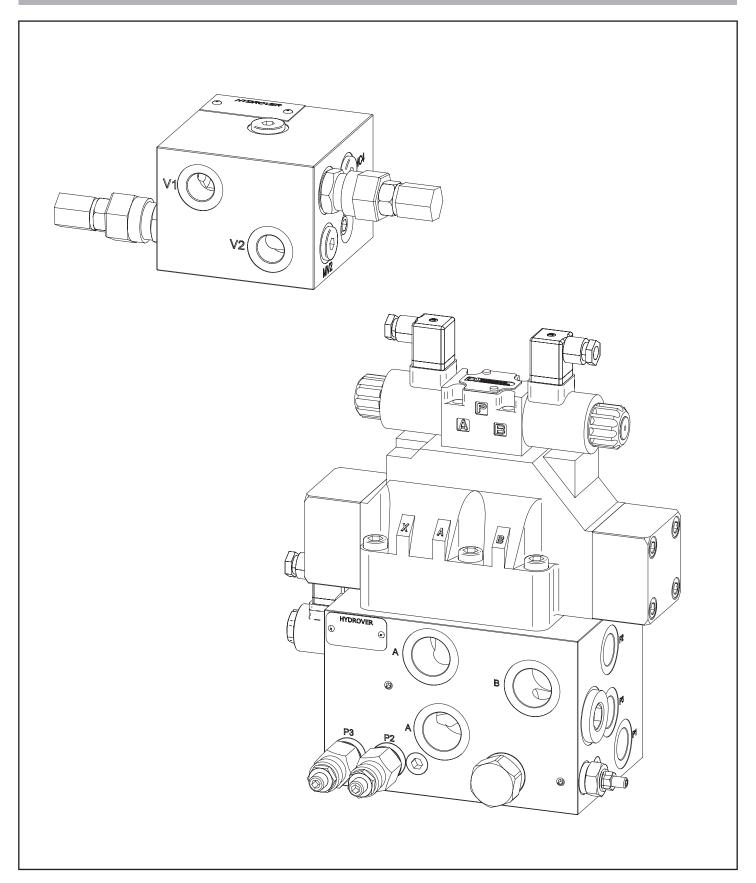
Product series

61 series - Electronic controls



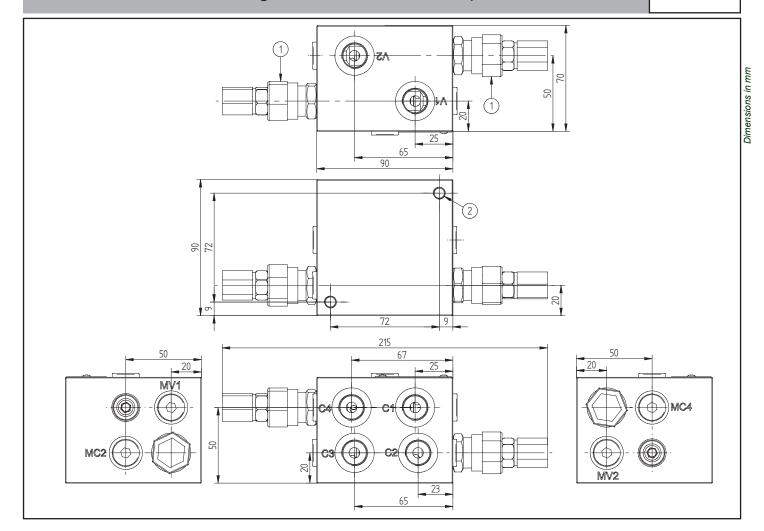


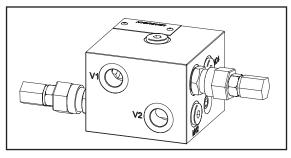
97 SERIES Multifunctional integrated circuits



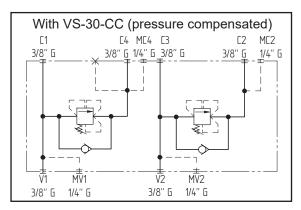


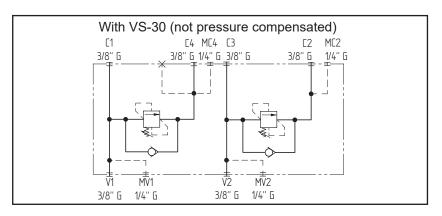
Integrated circuit with two sequence circuits 3/8" G H97001





Technical da	ata
Max. pressure	250 bar
Max. flow per circuit	30 lpm *
Weight	2 Kg
Manifold material	Aluminium
MV1 / MV2 / MC2 / MC4 ports	1/4" G
V1 / V2 / C1 / C2 / C3 / C4 ports	3/8" G





N°	Description	Q.ty
1	Bosch Rexroth sequence valve VS-30-CC * (as depicted) or Bosch Rexroth relief valve VS-30 *	2
2	M8x15 thread for mounting	2

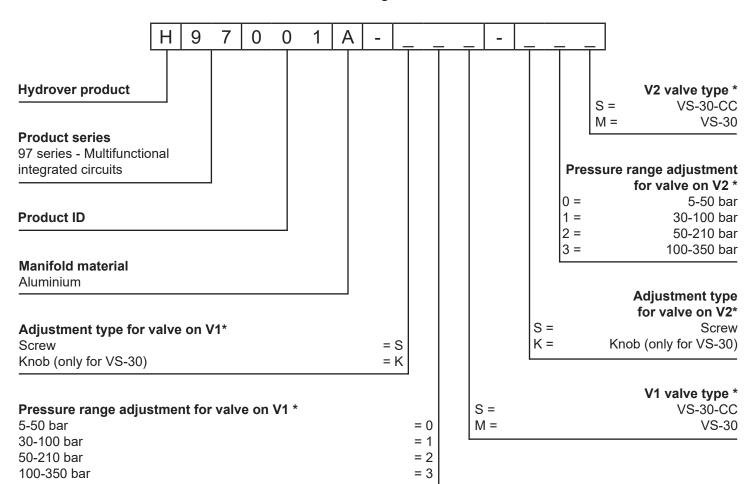
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



Multifunctional integrated circuits 97 SERIES

97 SERIES **H97001**

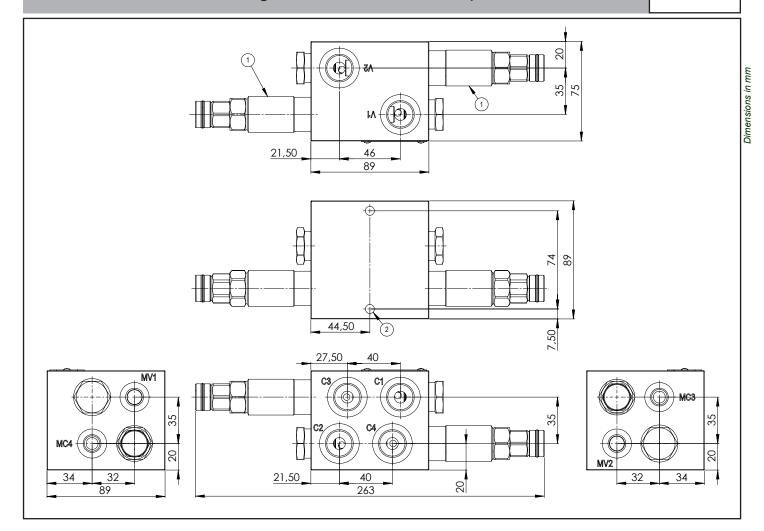
Ordering code

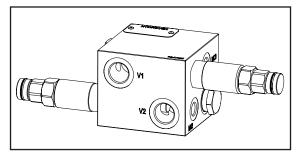


^{*} Omit if not required. To order the product without valves, omit their options: H97001A. The manifold will still be provided with the corrisponding cavities.

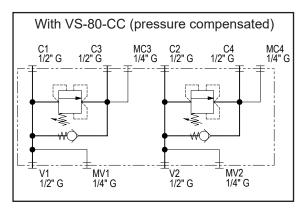


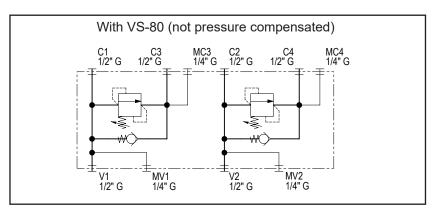
Integrated circuit with two sequence circuits 1/2" G H97063





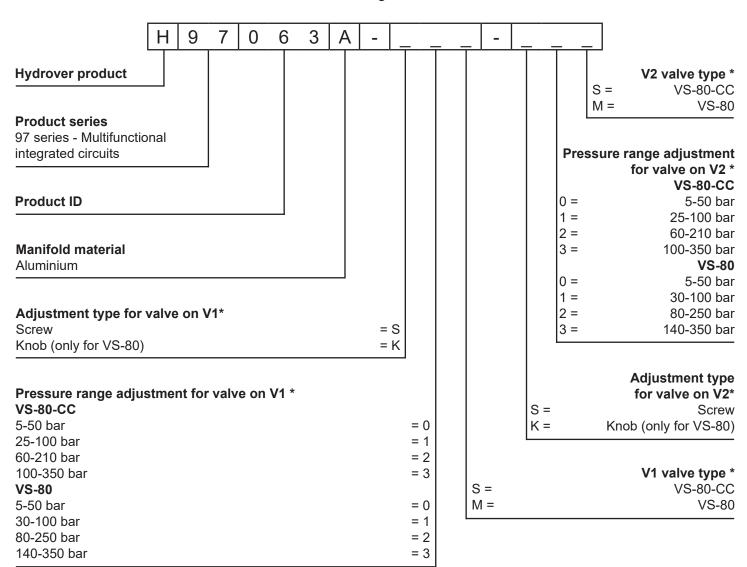
Technical data	1
Max. pressure	250 bar
Max. flow per circuit	80 lpm *
Weight	3 Kg
Manifold material	Aluminium
MV1 / MV2 / MC2 / MC4 ports	1/4" G
V1 / V2 / C1 / C2 / C3 / C4 ports	1/2" G



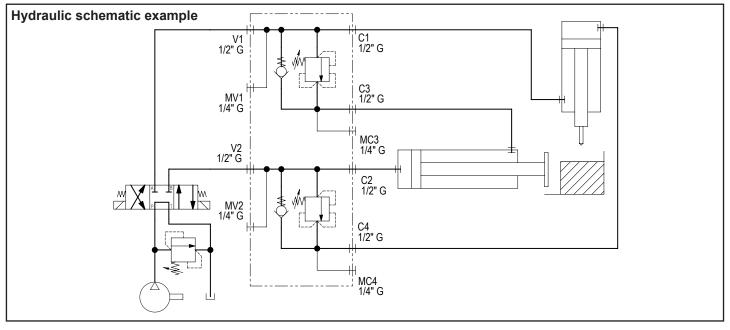


N°	Description	Q.ty
1	Sequence valve VS-80-CC * (as depicted) or Bosch Rexroth relief valve VS-80 *	2
2	M8x15 thread for mounting	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

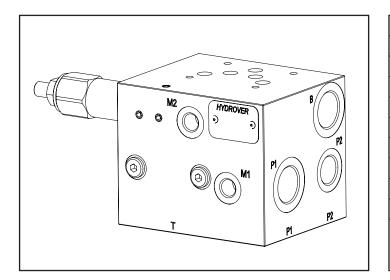


* Omit if not required. To order the product without valves, omit their options: H97063A. The manifold will still be provided with the corrisponding cavities.





DN10 dual pump unloading subplate H97039

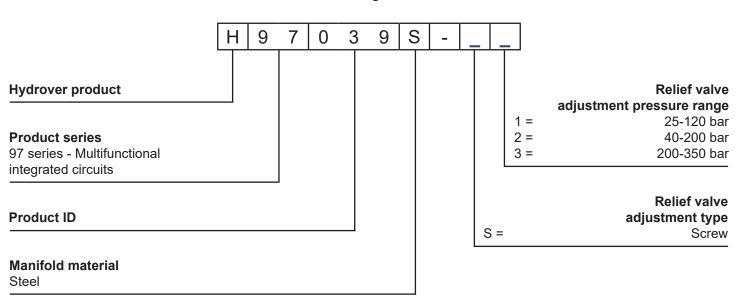


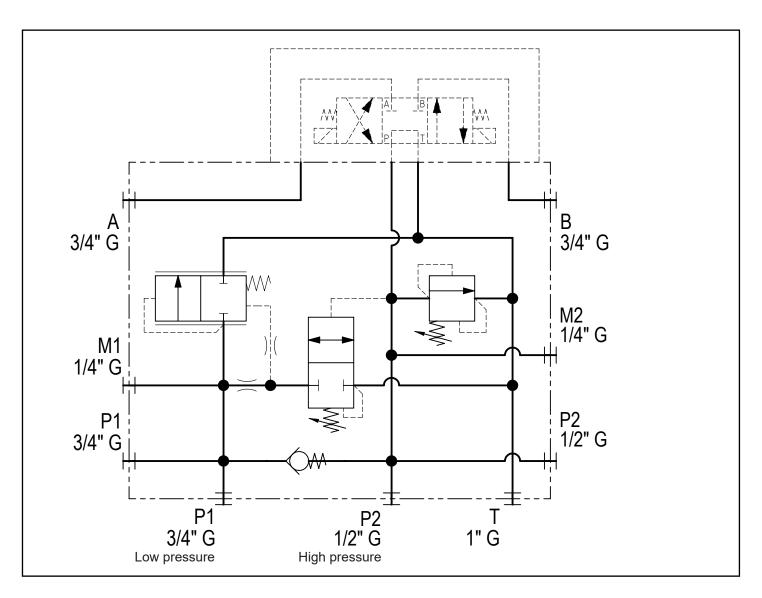
Techni	cal data
Max. pressure	350 bar
P1 max. flow	80 lpm *
P2 max. flow	40 lpm *
Weight	8,3 Kg
Manifold material	Steel
M1 / M2 ports	1/4" G
P2/ P2 ports	1/2" G
P1/ P1 / A / B ports	3/4" G
T port	1" G
* The sum of the two pumps must not exceed 100 lpm.	

104 104 104 104 104 104 104 104
B P1 P2 P2 P3 P1 P2 P3 P1 P1 P2 P3 P3 P4 P4 P5

N°	Description	Q.ty
1	M8x12 for mounting	3
2	Cutoff valve 20-180 bar	1
3	Bosch Rexroth relief valve VMD1.040 *	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue





MSP1

0

 \boxtimes

Integrated circuit DN16 for splitting with switchable regenerative control for double pump

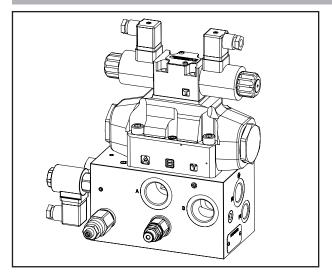
6

H97009

5

MP2

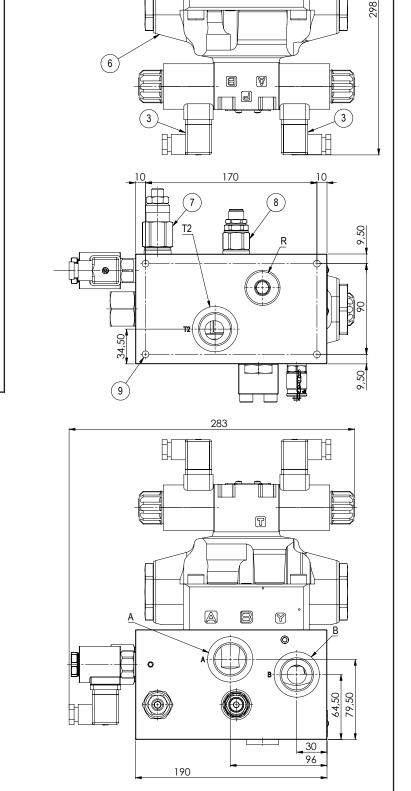
(5)

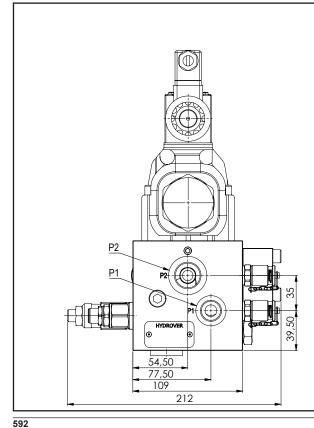


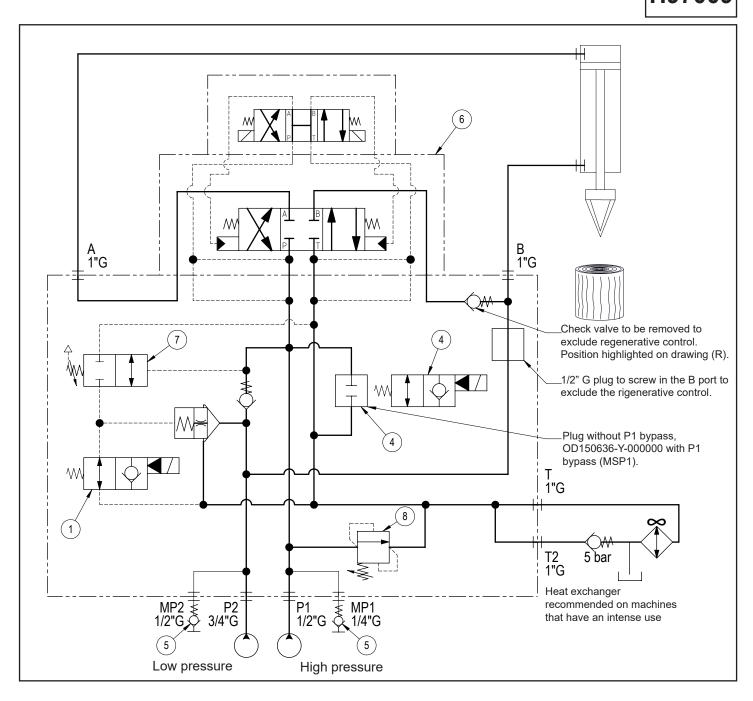
Technical data		
Max. pressure	350 bar	
P1 max. flow	25 lpm without MSP1 60 lpm with MSP1 *	
P2 max. flow	100 lpm **	
Weight	26 Kg	
Manifold material	Steel	
MP1 / MP2 ports	1/4" G	
P1 port	1/2" G	
P2 port	3/4" G	
A / B / T1 / T2 ports	1" G	

^{*} Depending of the system power

^{**} Depending of the cylinder dimensions and the system power

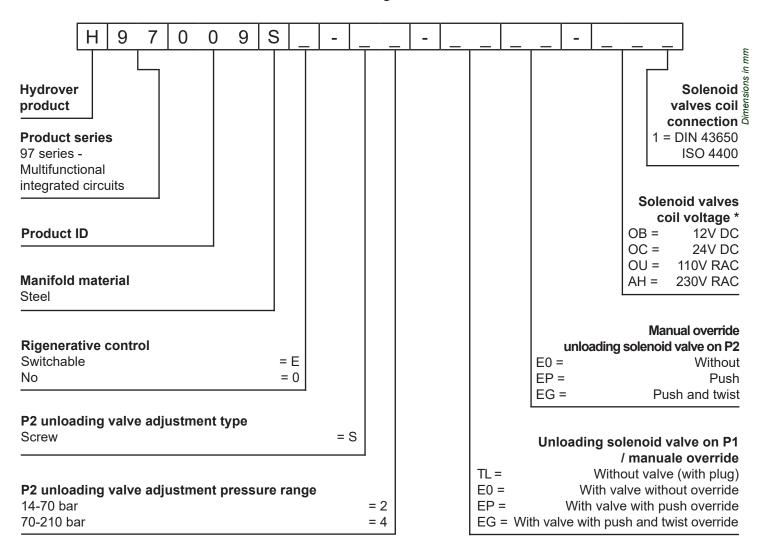






97 SERIES **H97009**

Ordering code



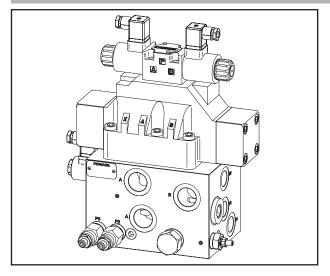
N°	Description	Q.ty
1	Bosch Rexroth solenoid valve VEI-16 OD.15.06.18-Y-000000 depicted without manual override *	1
2	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
3	Connector DIN 43650 ISO 4400	3
4	SP.PG.001 (depicted) o Bosch Rexroth unloading solenoid valve on P1 VEI-16-10A-NA OD.15.06.36-Y-000000 * with Bosch Rexroth D36 coil - CLASS H DIN 43650 ISO 4400 *	1
5	1/4"G test coupling	2
6	Pilot operated distributor	1
7	P2 unloading valve	1
8	Relief valve HCMM03-S3 50-350 bar	1
9	M10x15 for mounting	4

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

Integrated circuit DN25 for splitting with switchable regenerative control for triple pump

H97005

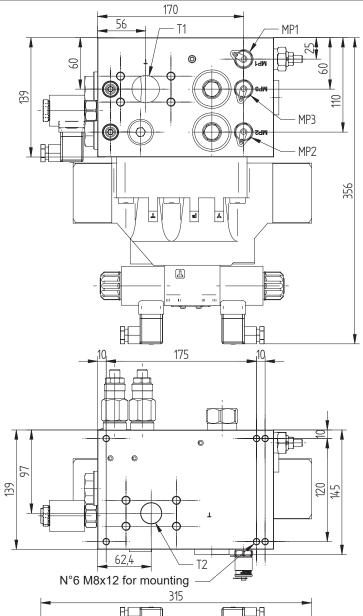
Dimensions in mm

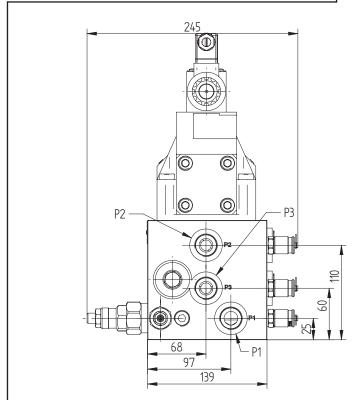


Technical data		
Max. pressure	280 bar	
P1 max. flow	50 lpm *	
P2 max. flow	100 lpm **	
P3 max. flow	150 lpm **	
Weight	43,9 Kg	
Manifold material	Steel	
MP1 / MP2 / MP3 ports	1/4" G	
P1 / P2 / P3 ports	3/4" G	
A / B ports	1" G	
T1 / T2 ports	SAE 3000 1"1/4 flange	

^{*} Depending of the system power

^{**} Depending of the cylinder dimensions and the system power

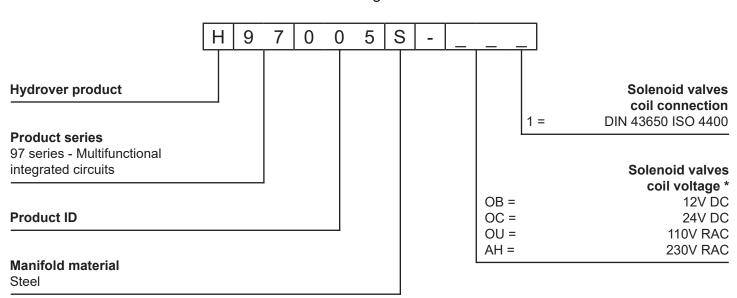


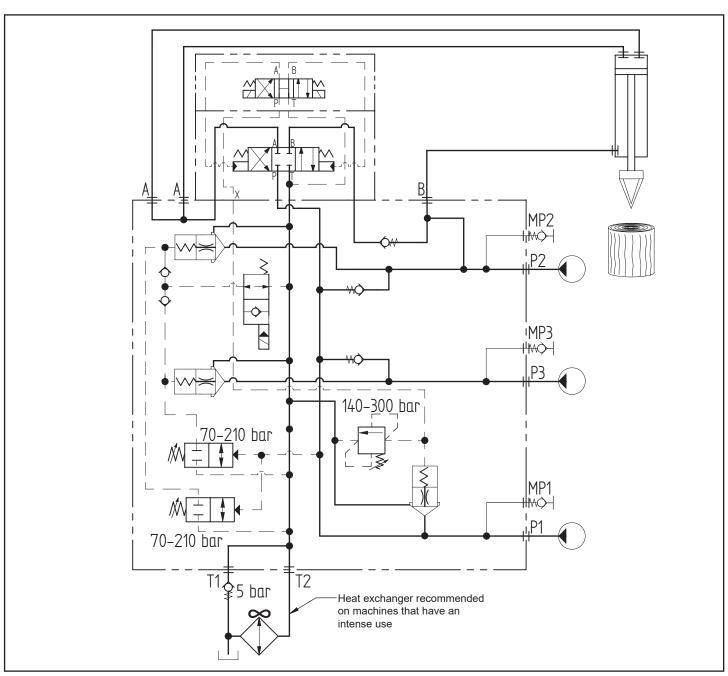




97 SERIES **H97005**

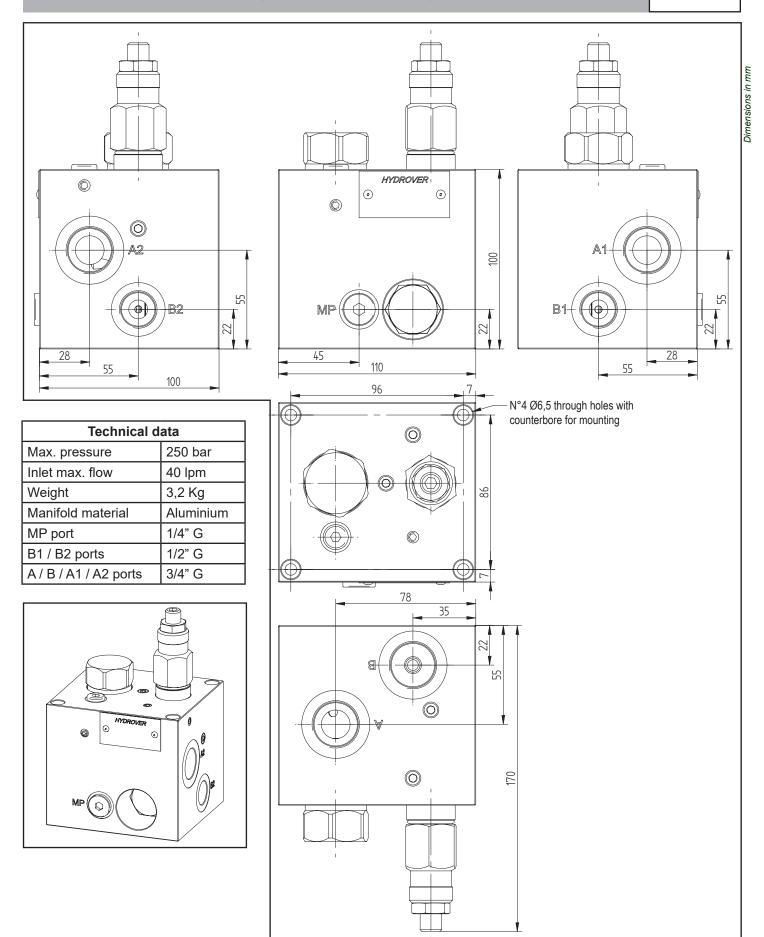
Ordering code

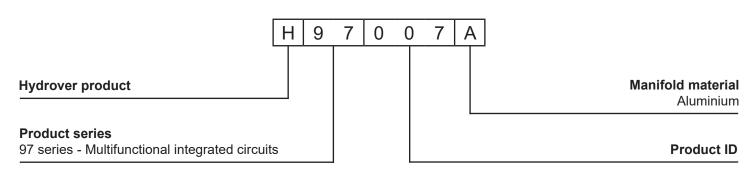


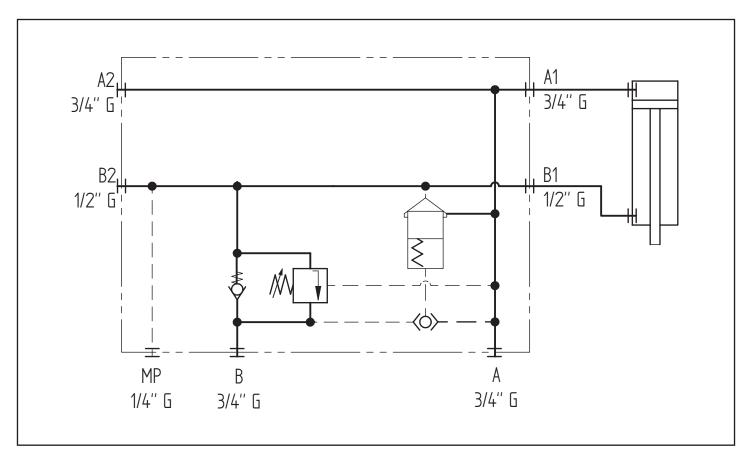




Integrated circuit with regenerative control / 40 lpm | H97007

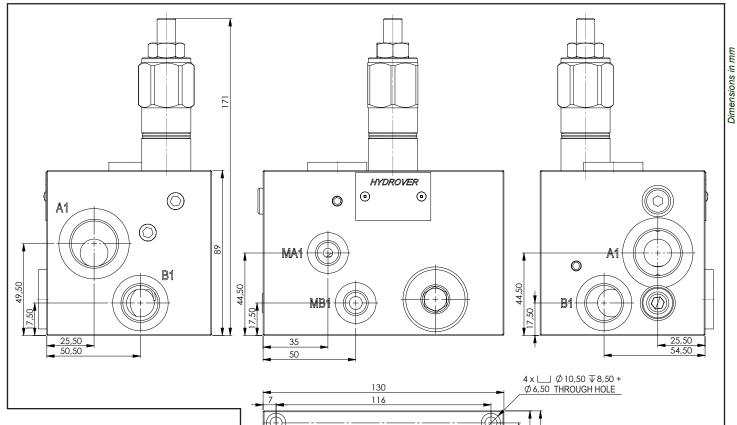




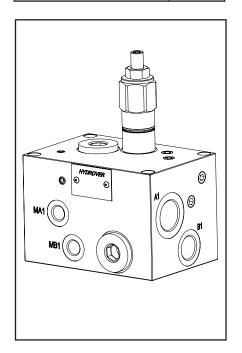


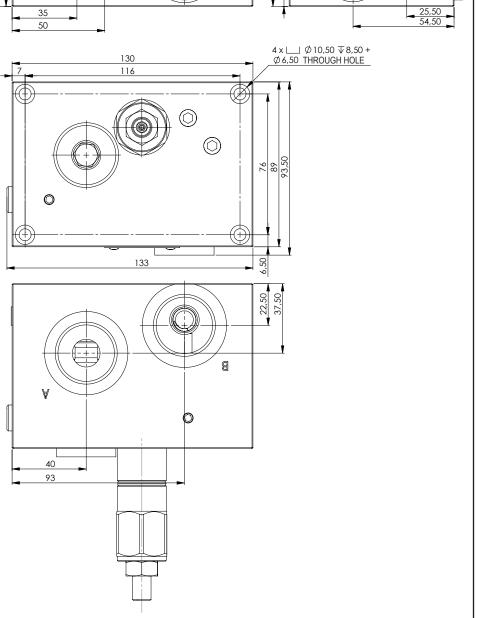


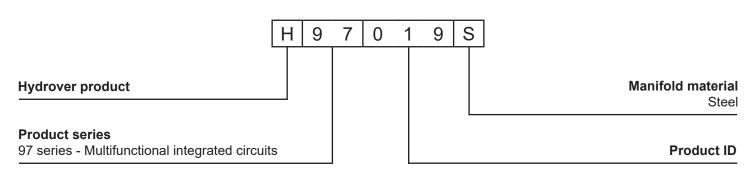
Integrated circuit with regenerative control / 80 lpm | H97019

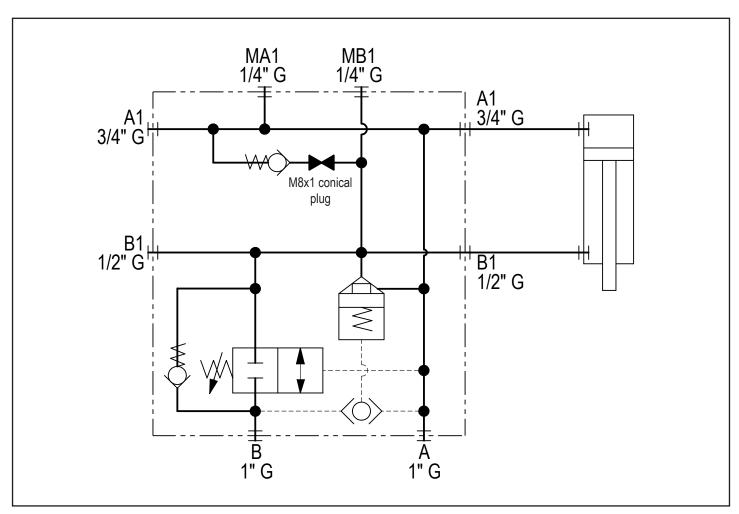


Technical data		
Max. pressure	250 bar	
Input max. flow	80 lpm	
Weight	7 Kg	
Manifold material	Steel	
MA1 / MB1 ports	1/4" G	
B1 / B1 ports	1/2" G	
A1 / A1 ports	3/4" G	
A / B ports	1" G	



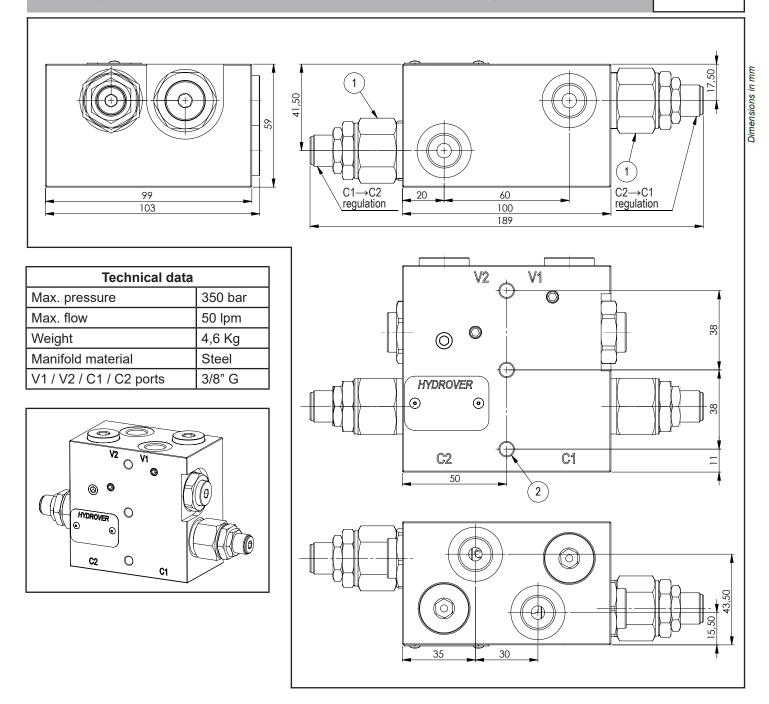






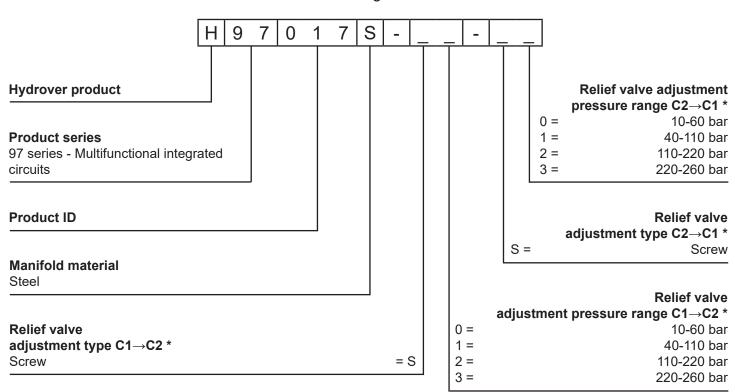


Integrated circuit for rotation with calibratable braking pressure / 50 lpm H97017

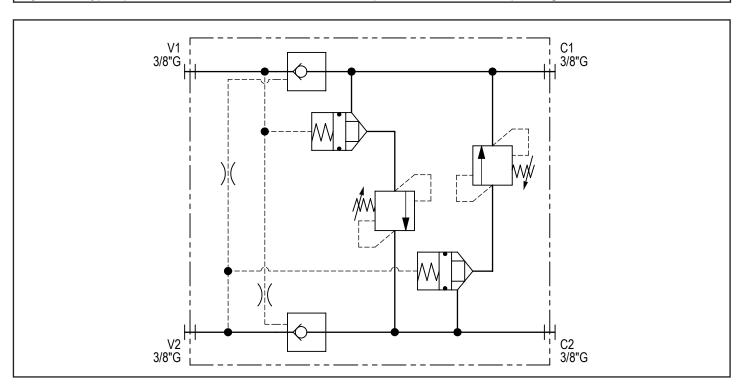


N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.070 *	2
2	Ø 6,5 through hole for mounting	3

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



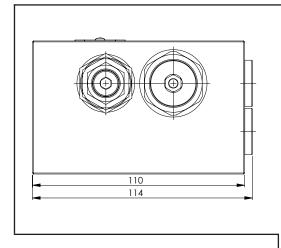
* Omit if not required. To order the product without the pressure relief cartridge valves, omit the pressure range and the adjustment type options: H97017S. The manifold will still be provided with the corrisponding cavities.

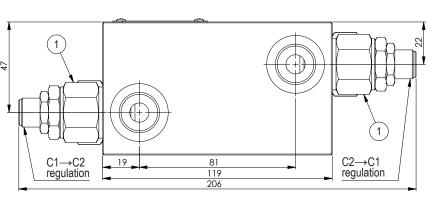


This device is intended for all machines equipped with arm and rotating turret driven by hydraulic motor or rack actuator. It is constituted by a check valve with double effect hydraulic release with dampened piloting (avoids oscillations) and by a double braking valve to discharge cross-inhibited by the oil input to the V1 V2 ports. This peculiarity allows to obtain the maximum pressure in the cue (general maximum pressure valve) and a reduced brake pressure and can be calibrated at the time of the movement.

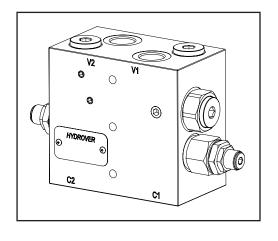


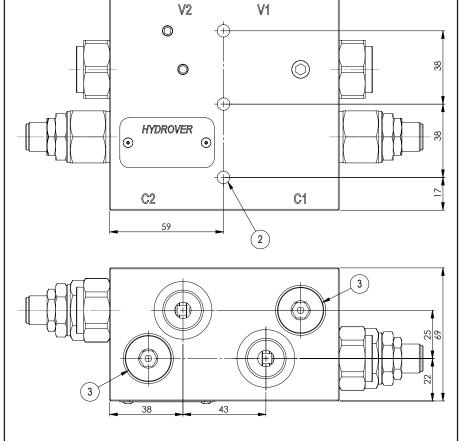
Integrated circuit for rotation with calibratable braking pressure / 70 lpm | H97049





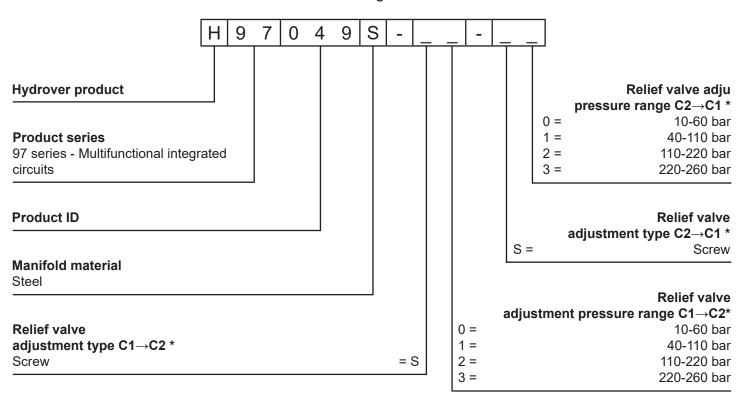
Technical data		
Max. pressure	350 bar	
Max. flow	70 lpm	
Weight	6,8 Kg	
Manifold material	Steel	
V1 / V2 / C1 / C2 ports	1/2" G	



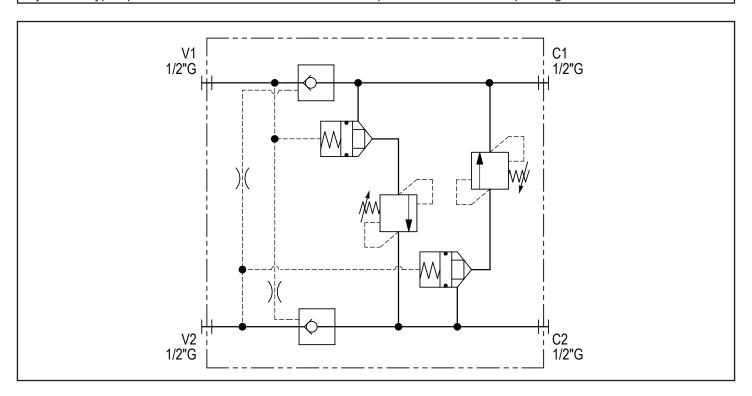


N°	Description	Q.ty
1	Bosch Rexroth relief valve VMD1.070 *	2
2	Ø 6,5 through hole for mounting	3
3	Logic element	2

^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue



* Omit if not required. To order the product without the pressure relief cartridge valves, omit the pressure range and the adjustment type options: H97049S. The manifold will still be provided with the corrisponding cavities.

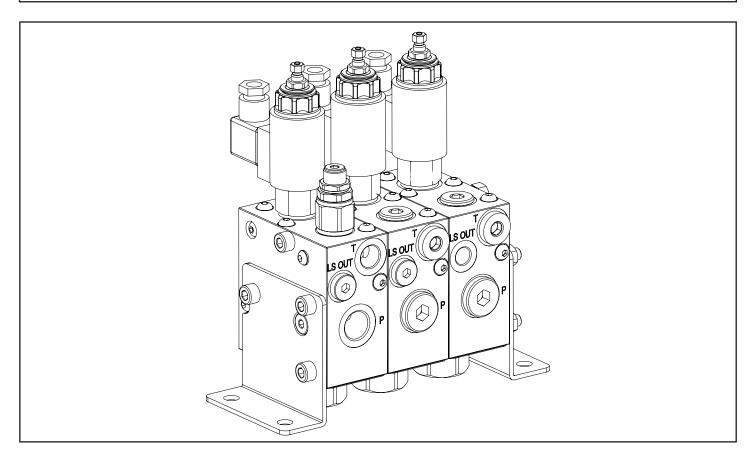


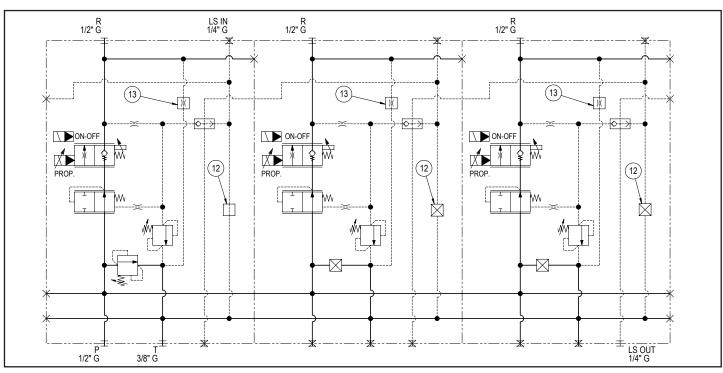
This device is intended for all machines equipped with arm and rotating turret driven by hydraulic motor or rack actuator. It is constituted by a check valve with double effect hydraulic release with dampened piloting (avoids oscillations) and by a double braking valve to discharge cross-inhibited by the oil input to the V1 V2 ports. This peculiarity allows to obtain the maximum pressure in the cue (general maximum pressure valve) and a reduced brake pressure and can be calibrated at the time of the movement.

This equipment allows to set different flow rates and different pressures for multiple outputs connected to the same variable displacement pump. On each section the electrically operated cartridge is the same in on-off and proportional. It is equipped with a manual stroke limitation to use with the on-off coil. The same function is done electrically by adopting a proportional coil. The flow rates and pressures set are also respected for contemporary uses.

of materials for details). The LS OUT (towards the pump) must be on the closing section, a potential LS IN (coming from a distributor, for example) on the inlet section.

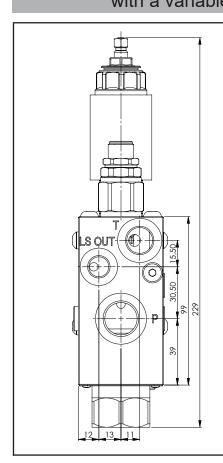
If you need only one section use the stand alone one

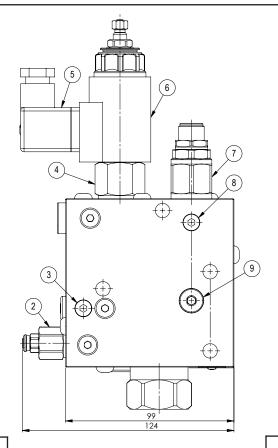


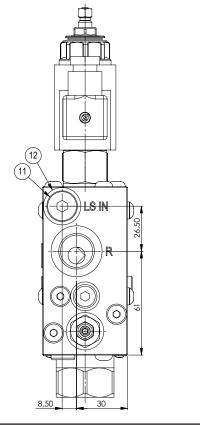


Management block for simultaneous feeds with a variable displacement pump 1/2" G - Stand alone section

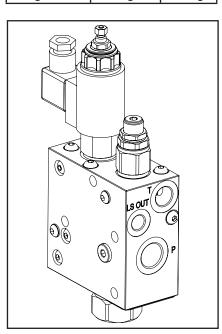
H97133

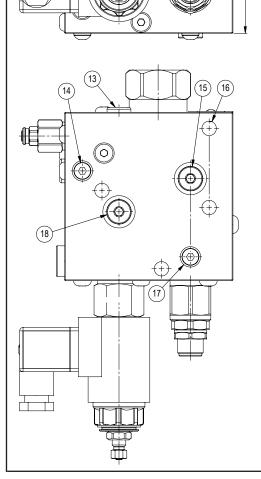


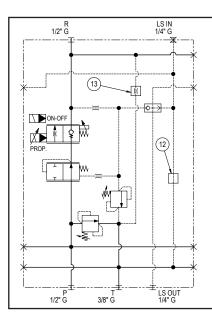




Technical data		
Inlet max. flow	Inlet max. flow	
Regulated max. flow		
LS IN / LS OU	LS IN / LS OUT ports	
T port	T port	
P / R ports	P / R ports	
Man. material	Aluminium	Steel
Max. pressure	Max. pressure 250 bar	
Weight	2,5 Kg	4,4 Kg

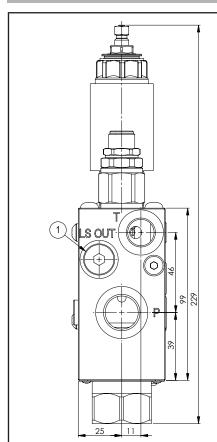


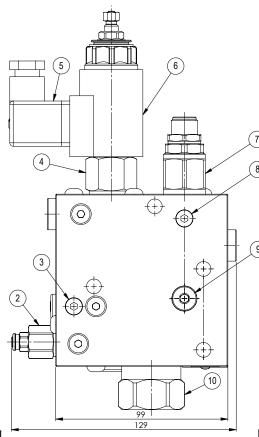


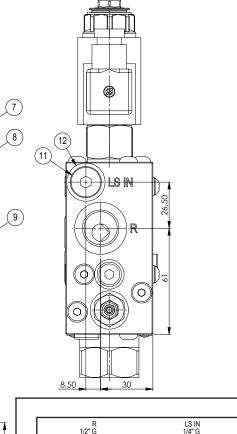


Management block for simultaneous feeds with a variable displacement pump 1/2" G - Inlet section

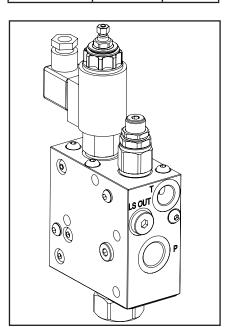


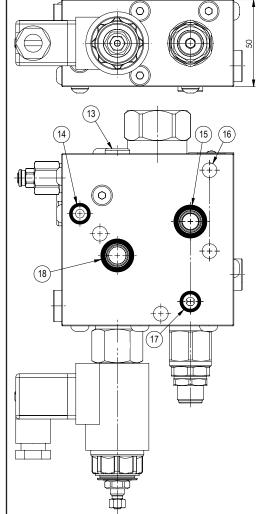


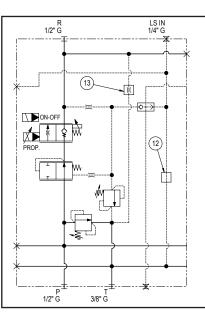




Technical data		
Inlet max. flow	Inlet max. flow	
Regulated max. flow	· · ·	
LS IN port	LS IN port	
T port	T port	
P / R ports	P / R ports	
Man. material	Aluminium	Steel
Max. pressure	250 bar	350 bar
Weight	2,5 Kg	4,4 Kg

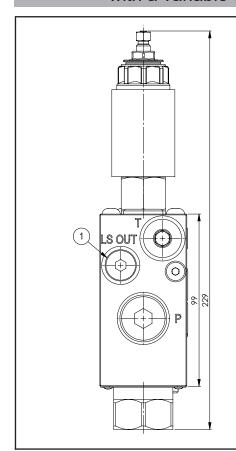


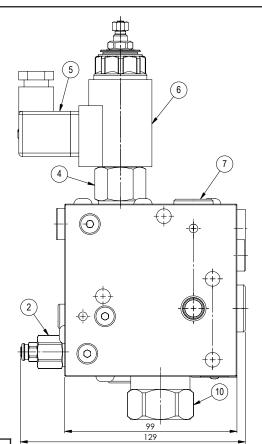


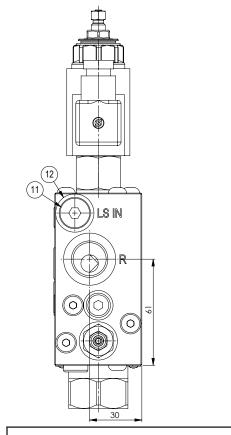


Management block for simultaneous feeds with a variable displacement pump 1/2" G - Intermediate section

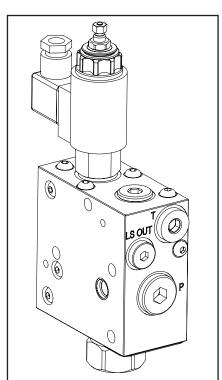
H97133

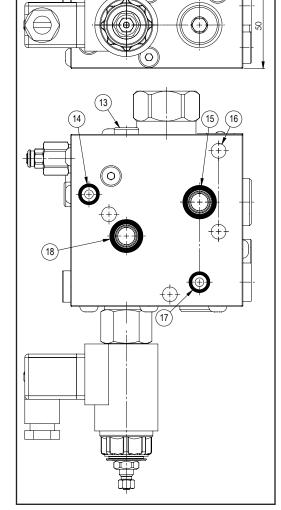


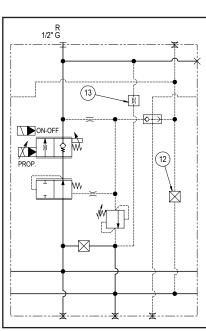




Technical data		
Regulated max. flow	6 bar spring 50 lpm 12 bar spring 80 lpm	
R port		1/2" G
Man. material	Aluminium	Steel
Max. pressure	250 bar	350 bar
Weight	2,4 Kg	4,3 Kg

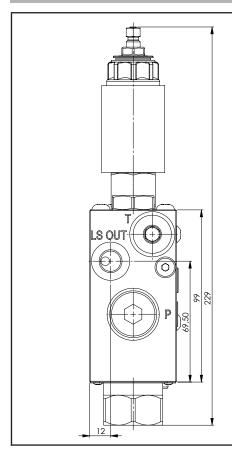


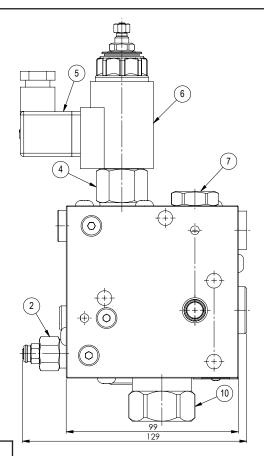


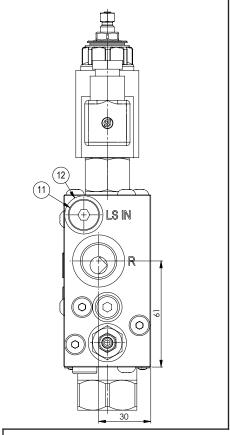


Management block for simultaneous feeds with a variable displacement pump 1/2" G - Closing section

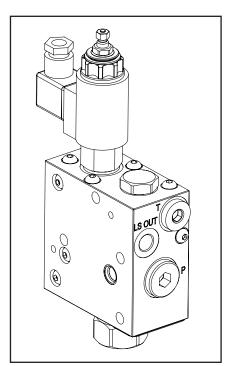


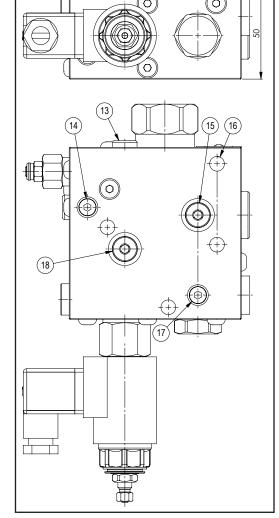


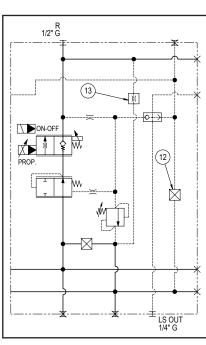




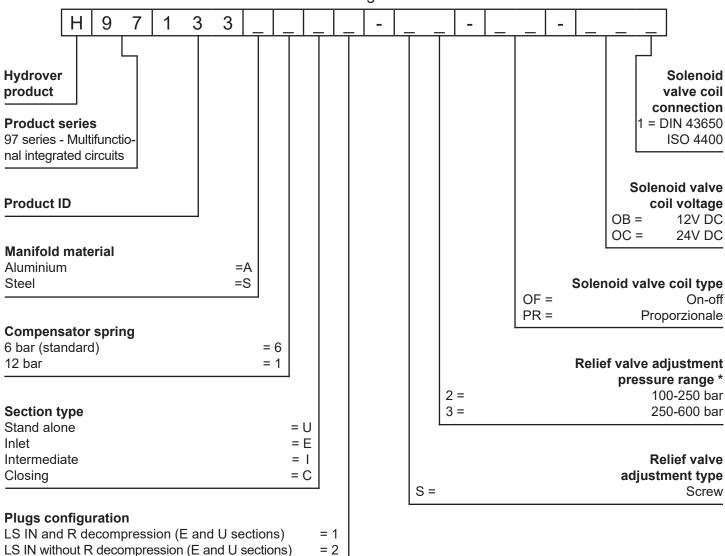
Technical data			
Regulated 6 bar spring 12 bar spring			
LS OUT port		1/4" G	
R port		1/2" G	
Man. material	Aluminium	Steel	
Max. pressure	250 bar	350 bar	
Weight	2,4 Kg	4,3 Kg	

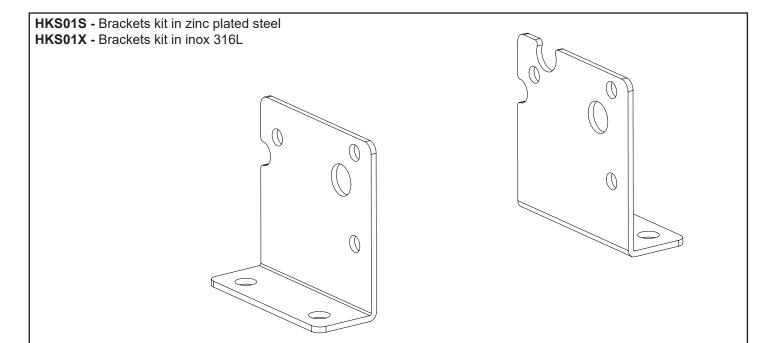












= 3

= 4

R decompression

Without R decompression



Multifunctional integrated circuits 97 SERIES

97 SERIES **H97133**

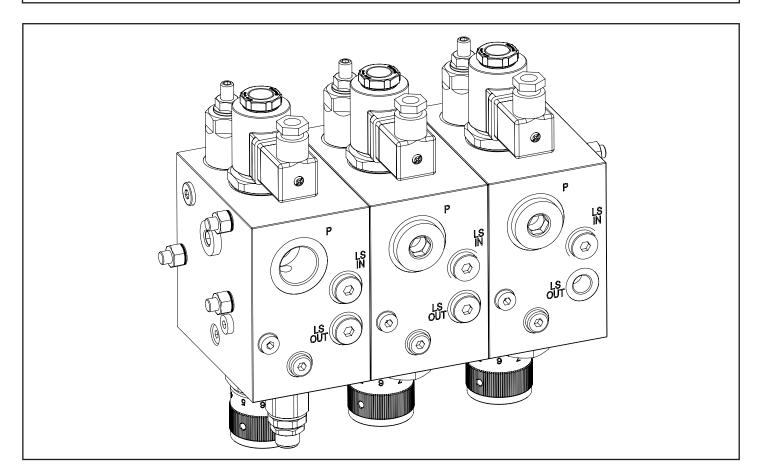
N°	Descrizione	Q.ty	
1	TPCLG-14G (LS OUT) - On inlet and intermediate sections	1	3
2	Relief valve with filter for the R port	1	1.5
3	TBEIB 6x8 on the inlet section (LS)	1	1.5
4	On-off/proportional flow restrictor with manual stroke limitation	1	1
5	Connector DIN 43650 ISO 4400	1	
6	On-off or proportional coil class H DIN 43650 ISO 4400	1	
7	Anti shock valve 120-350 bar on the inlet section, plug R932003194 on the other sections	1	
8	TBEIB 6x8 on inlet and stand alone sections (T)	1	
9	TPCLOR7/16"UNF on inlet and stand alone sections (P)	1	
10	Pressure compensator	1	
11	TPCLG-14G (LS IN) - To be removed to connect an LS IN on inlet and stand alone sections.	1	
12	TPCN 6 - In the LS IN port - On the intermediate and closing section. To add on inlet and stand alone sections if a LS IN is connected.	1	
13	Under 1/8"G plug - TPCN 6 without R decompression (plugs configuration 2 and 4) DIAFRM6D0.4 with R decompression (1 and 2 plug configuration)	1	
14	TBEIB 6x8 on closing and stand alone sections, OR 108 Ø i. 8,73 c. s. 1,78 on the other sections (LS)	1	
15	TPCLOR7/16"UNF on closing and stand alone sections, OR 3056 Ø i. 13,95 c. s. 2,62 on the other sections (P)	1	
16	Ø 8,5 through hole for tie rod	4	
17	TBEIB 6x8 on closing and stand alone sections, OR 108 Ø i. 8,73 c. s. 1,78 on the other sections (T)	1	
18	TPCLOR7/16"UNF on closing and stand alon sections, OR 3056 Ø i. 13,95 c.s. 2,62 on the other sections (side R, used for other types of sections like for managing single acting cylinders).	1	

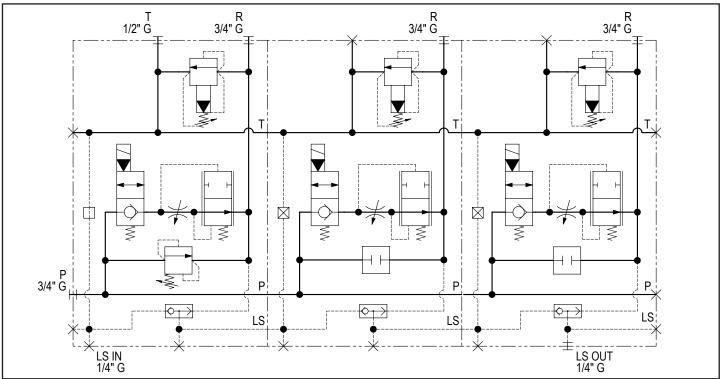
Management block for simultaneous feeds with a variable displacement pump 3/4" G

This equipment allows to set different flow rates and different pressures for multiple outputs connected to the same variable displacement pump. The flow rates and pressures set are also respected for contemporary uses.

To offer greater flexibility in warehouse management, the different types of sections, input / intermediate / closing, use the same manifold. As a result, they can be transformed into another type of section by adding / removing a few components (see separate components for details). The LS OUT (towards the pump) must be on the closing section, a potential LS IN (coming from a distributor, for example) on the inlet section.

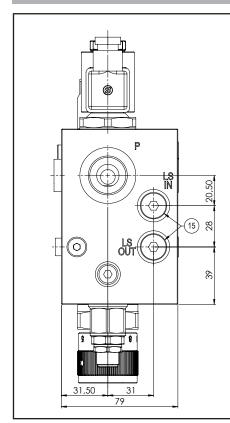
The inlet section can be used stand alone.

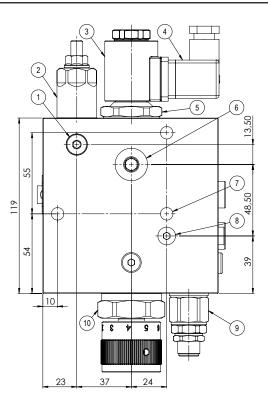


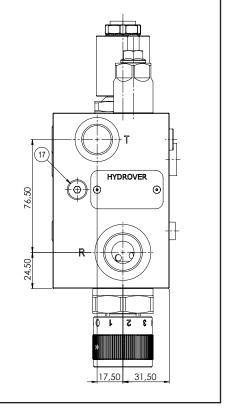


Management block for simultaneous feeds with a variable displacement pump 3/4" G - Inlet section

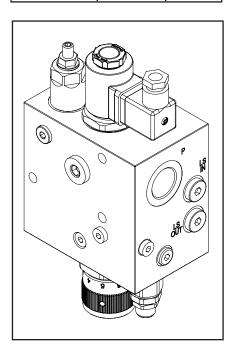
H97101

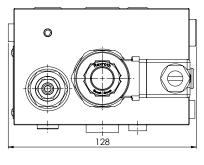


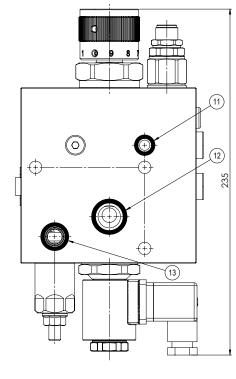


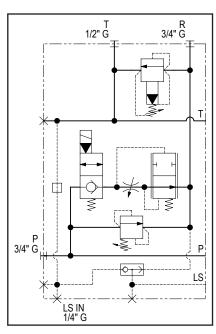


Technical data				
Inlet max. flow	V	150 lt/1		
Regulated ma	ax. flow	100 lt/1		
LS IN / LS OU	1/4" G			
T port	1/2" G			
P / R ports	P / R ports			
Man. material	Aluminium	Steel		
Max. pressure	Max. pressure 250 bar			
Weight	8,5 Kg			



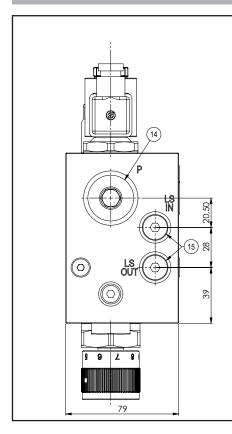


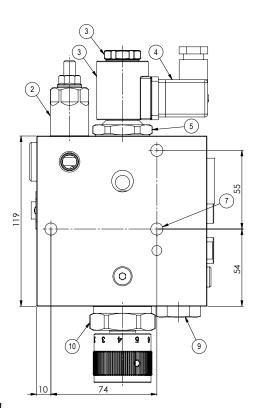


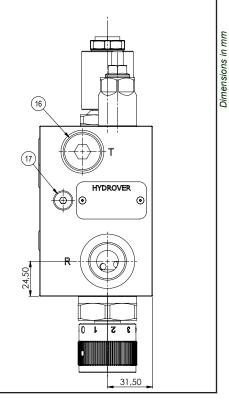


Management block for simultaneous feeds with a variable displacement pump 3/4" G - Intermediate section

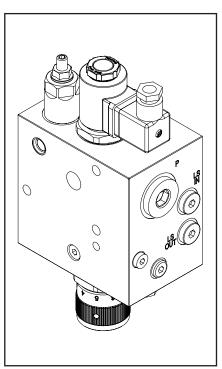
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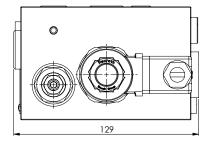


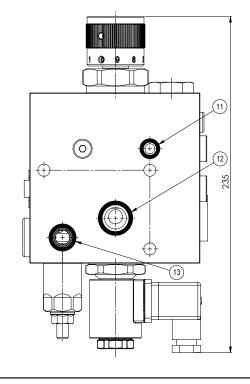


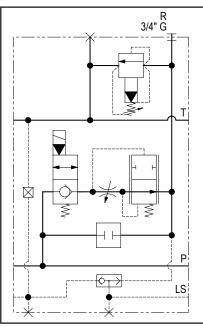


Technical data				
Regulated ma	100 lt/1			
R port	R port			
Manifold material	Aluminium	Steel		
Maximum pressure	250 bar	350 bar		
Weight	8,5 Kg			



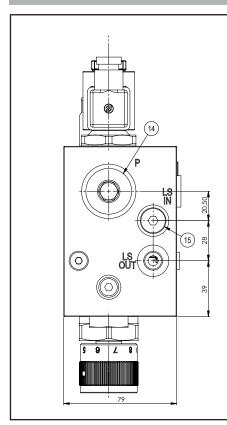


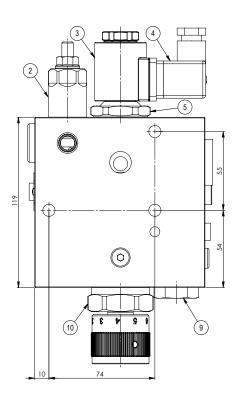


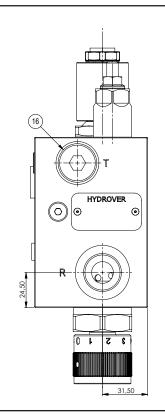


Management block for simultaneous feeds with a variable displacement pump 3/4" G - Closing section

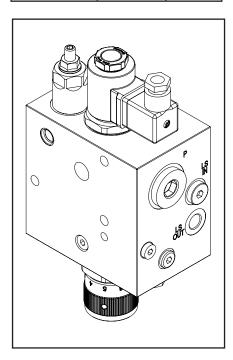
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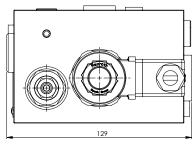


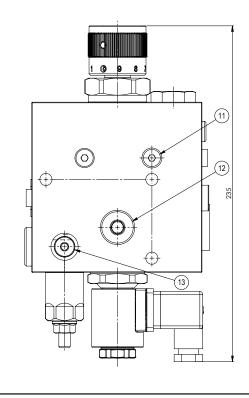


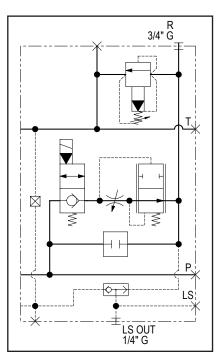


Technical data				
Regulated ma	ax. flow	100 lt/1		
LS OUT port	LS OUT port			
R port	R port			
Manifold material	Aluminium	Steel		
Maximum pressure	250 bar	350 bar		
Weight	4 Kg	8,5 Kg		

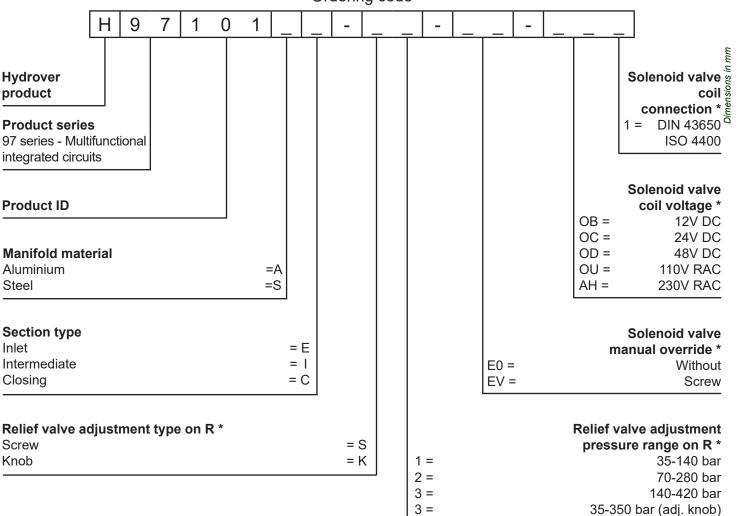








Ordering code

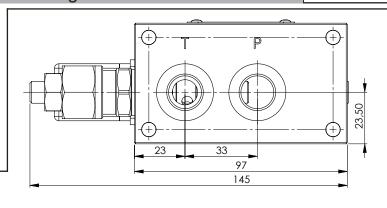


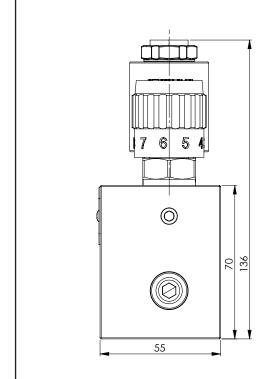
N°	Description	Q.ty
1	TPCLOR7/16"UNF on the inlet section (T)	1
2	Bosch Rexroth relief valve on R VSPN-10A * depicted with screw adjustment	1
3	Bosch Rexroth coil D36 - CLASS H DIN 43650 ISO 4400 *	1
4	Connector DIN 43650 ISO 4400	1
5	Bosch Rexroth solenoid valve OD.15.05.21-Y-00000 depicted without manual override *	1
6	TPCLG-38G on the inlet section (P)	1
7	Ø 8,5 through hole for tie rod	3
8	TPCLG8X1 on the inlet section (LS)	1
9	HCMM03-S3 50-350 bar anti-shock valve on the inlet plate, 0489A2008500000 plug on the other sections.	1
10	Flow regulator	1
11	TPCLG8X1 on the closing section, OR 109 Ø i. 9,13 c. s. 2,62 on the other sections (LS)	1
12	TPCLG-38G on the closing section, OR 3075 Ø i. 18.72 c. s. 2,62 on the other sections (P)	1
13	TPCLOR7/16"UNF on the closing section, OR 3056 Ø i. 13.95 c. s. 2,62 on the other sections (T)	1
14	TPCLG-34G on the intermediate and closing sections (P)	1
15	TPCLG-14G on the inlet and intermediate sections (LS OUT), on all sections (LS IN)	1
16	TPCLG-12G on the intermediate and closing sections (T)	1
17	TPCN 6 under the TPCLG-M8X1 on intermediate and closing sections. To add on the inlet section if a LS IN is connected.	1

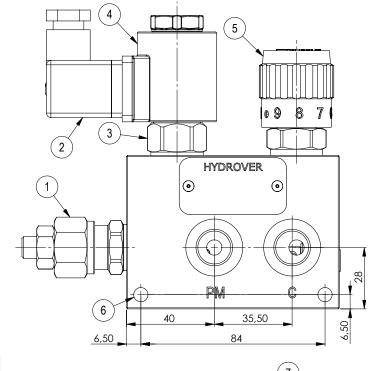
^{*} for complete technical information, click on the blue link or go to the components section at the end of the catalogue

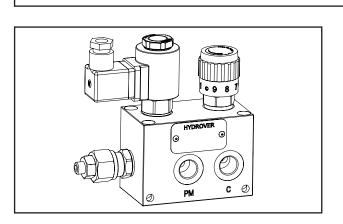
Integrated circuit for single acting cylinder with 2 way compensated flow regulator and relief valve 3/8" G

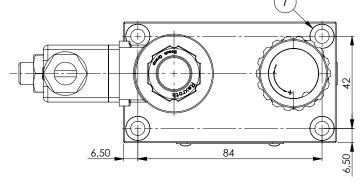
Technical data			
Max. pressure	250 bar		
Max. flow from P to C	30 lpm		
Max. flow from C to T	15 lpm		
Weight	1,6 Kg		
Manifold material	Aluminium		
C / P / PM / T ports	3/8" G		









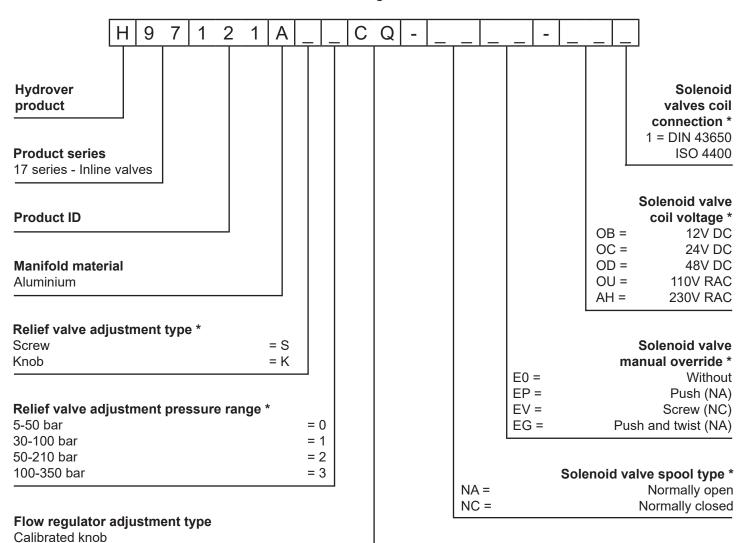


N°	Description	Q.ty
1	Bosch Rexroth relief valve VS-30 * depicted with screw adjustment	1
2	Connector DIN 43650 ISO 4400	1
3	Bosch Rexroth solenoid valve VEI-16-08A-NC OD.15.05.18-Y-000000 (normally closed) o VEI-16-08A-NA OD.15.06.18-Y-000000 (normally open) depicted without manual override *	1
4	Bosch Rexroth coil D36 CLASS H DIN 43650 ISO 4400 *	1
5	2 way compensated flow regulator (available also not compensated)	1
6	Ø 6,5 through hole for mounting	2
7	Ø 6,5 through hole for mounting with counterbore	4

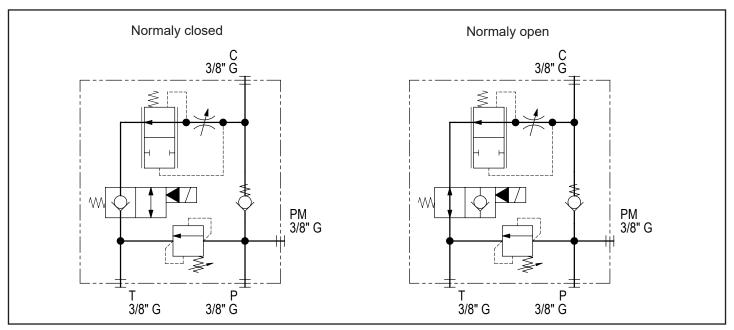


Inline valves 17 SERIES H97121

Ordering code



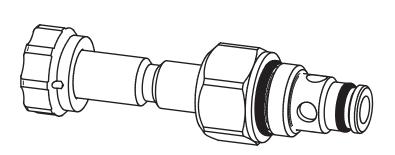
^{*} Omit if not required. For example, to order the product without the solenoid cartridge valves, omit the coil connection, coil voltage, max. flow and manual override options: H97121AS2CQ.
The manifold will still be provided with the corrisponding cavities.

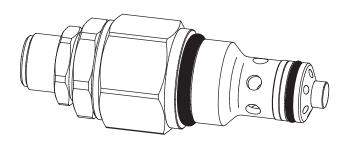


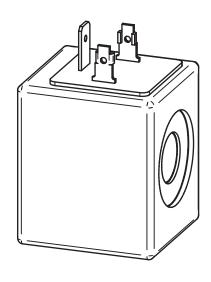


COMPONENTS











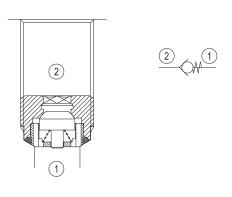


Insert type Check, poppet type

0T.U3.01.00 - Y - Z





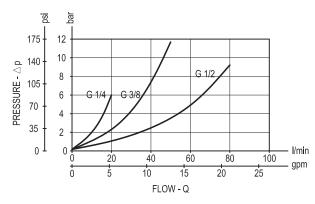


Description

When pressure at 2 rises above the spring bias pressure, the poppet is lifted and flow allowed from 2 to 1. The valve is closed (checked) from 1 to 2. Precision machining and hardening processes allow virtually leak-free performance in the checked condition.

Note: UNF and Metric versions available on request. Consult factory.

Performance



Technical data

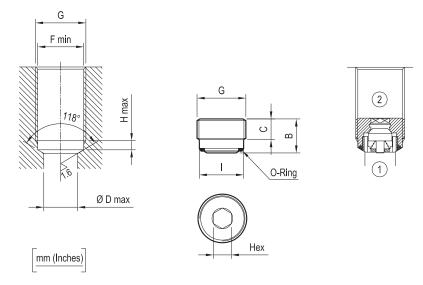
Max. operating pressure	har (nsi)	350 (5000)
Max. flow	I/min. (gpm)	
Max. internal leakage	drops/min.	
Fluid temperature range	°C (°F)	-30 to 100 (-22 to 212)
Installation torque	Nm (ft-lbs)	see "Dimensions" table
Weight	kg (lbs)	see "Dimensions" table
Special cavity		see "Dimensions"
Seal kit (*)	code material no.	see "Dimensions" table
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 5 to 800 mm ² /s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Other Technical Data		See data sheet RE 18350-50

(*) Only external seals for 10 valves



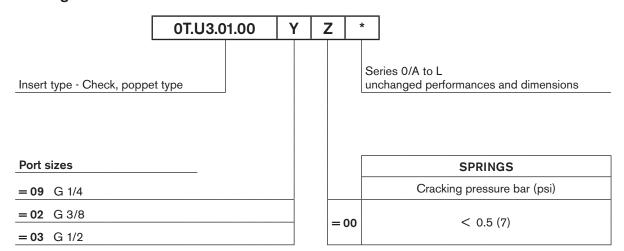


Dimensions



G	В	С	Hex.	D	I	F	O-Ring dimensions	O-Ring codes	Н	Weight kg (lbs)	Inst. torque Nm (ft-lbs)	Flow max. I/min. (gpm)
G 1/4	10 (0.39)	6 (0.24)	6 (0.24)	7 (0.28)	11.5 (0.45)	11.6 (0.46)	Ø 9 x 1 (0.35x0.04)	RG09UB010000100 R931002410	3 (0.12)	0.005 (0.011)	15 (11)	20 (5)
G 3/8	11.5 (0.45)	7 (0.28)	6 (0.24))	9 (0.35)	14.95 (0.59)	15.1 (0.6)	Ø 11x1.5 (0.43x0.06)	RG02UB010000100 R931002408	3 (0.12)	0.015 (0.033)	20 (15)	50 (13)
G 1/2	13.5 (0.53)	8 (0.32)	8 (0.32)	12 (0.47)	18.7 (0.74)	18.8 (0.74)	Ø 14x1.5 (0.55x0.06)	RG03UB020000100 R931002409	3 (0.12)	0.020 (0.044)	20 (15)	80 (21)

Ordering code







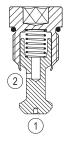
Insert type Check, poppet type

Special cavity, 808

VUM1.060

0T.U6.02.00.99 - Z





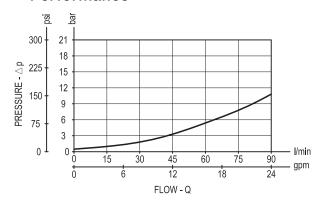


Description

When pressure at 1 rises above the spring bias pressure, the poppet is lifted and flow allowed from 1 to 2. The valve is closed (checked) from 2 to 1. Precision machining and hardening processes allow virtually leak-free performance in the checked condition.

Note: to obtain a good leak proof performance coin the cavity seat using a loose valve poppet (P/N $\,$ 0F.S2.014) as a coining tool. Impact energy: 5 \pm 2 Nm.

Performance



Technical data

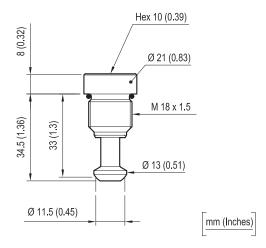
Max. operating press	ure bar (psi)	380 (5500)
Max. flow I/min. (gpm)		90 (24)
Max. internal leakage	drops/min.	5
Fluid temperature rar	nge °C (°F)	-30 to 100 (-22 to 212)
Installation torque	Nm (ft-lbs)	35-40 (26-30)
Weight	kg (lbs)	0.06 (0.13)
Special cavity		808
Seal kit (*)	code material no.	
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 5 to 800 mm²/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Dat	a	See data sheet RE 18350-50
(4) 6 1	1.6.40.1	,

^(*) Only external seals for 10 valves

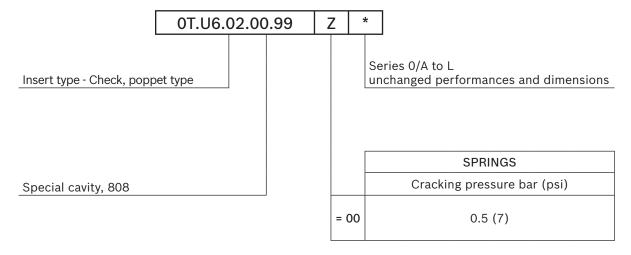




Dimensions



Ordering code





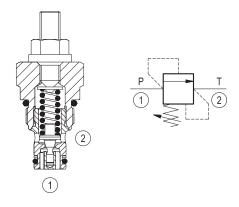


Common cavity, Size 08

VSBN-08A

04.11.49 - X - 56 - Z

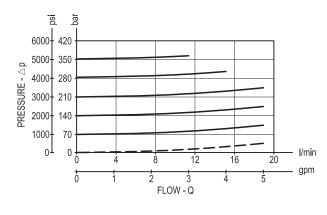




Description

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through port 2 to tank. Pressure at port 2 is additive to the relief setting of the valve. The unique Bosch Rexroth Oil Control poppet design provides enhanced stability at all flows and pressures.

Performance



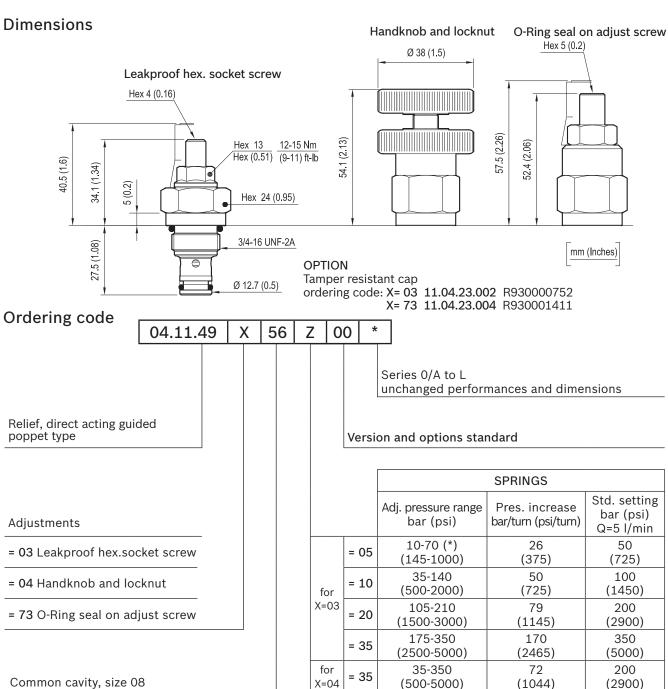
Technical data

Max. operating pressure bar (psi) port 1 (P)	350 (5000)
Max. pressure admitted port 2 (T) bar (psi)	140 (2000)
Max. flow I/min. (gpm)	20 (5.3)
Max. internal leakage (*) drops/min.	15
Fluid temperature range °C (°F)	-30 to 100 (-22 to 212)
Installation torque Nm (ft-lbs)	34-41 (25-30)
Weight (**) kg (lbs)	0.09 (0.2)
Cavity	CA-08A-2N see data sheet RE 18325-70
Seal kit (***) code material no.	RG08A2010520100 R901101437
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Filtration	Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation	No restrictions
Other general technical data	See data sheet RE 18350-50
(+) NA + 000/ C : 1 ++:	

- (*) Max. to 80% of nominal setting
- (**) Standard version X=03 type
- (***) Only external seals for 10 valves







X=04

for

X=73

= 35

Note: Special settings available. Contact factory authorized representative for ordering code

(500-5000)

35-350

(500-5000)

(*) minimum pressure setting intended with Q=5 l/min (1.3 gpm)

(1044)

72

(1044)

(2900)

200

(2900)





Relief, direct acting guided poppet type
Special cavity, 008

VS-30

04.11.18 - X - 99 - Z

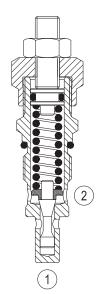
RE 18318-23 Edition: 03.2016

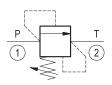
Replaces: 07.2010



Description

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through port 2 to tank. Pressure at port 2 is additive to the relief setting of the valve. The unique Bosch Rexroth Oil Control poppet design provides enhanced stability at all flows and pressures.

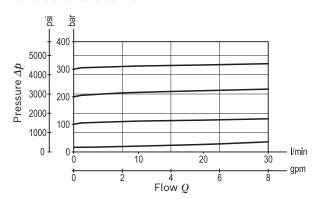




Technical data	
Max. operating pressure port 1 (P)	350 bar (5000 psi)
Max. pressure admitted port 2 (T)	140 bar (2000 psi)
Max. flow	30 l/min (8 gpm)
Max. internal leakage ¹⁾	15 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	45 - 50 Nm (33 - 37 ft-lbs)
Weight ²⁾	0.17 kg (0.38 lbs)
Special cavity	008 (see data sheet 18325-75)
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit ³⁾	Code: RG0008010000100
	material no: R930001692
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Recommended degree of fluid contamination	Nominal value max. 10µm (NAS 8) / ISO 4406 19/17/14
Installation position	No restrictions
Other Technical Data	See data sheet 18350-50

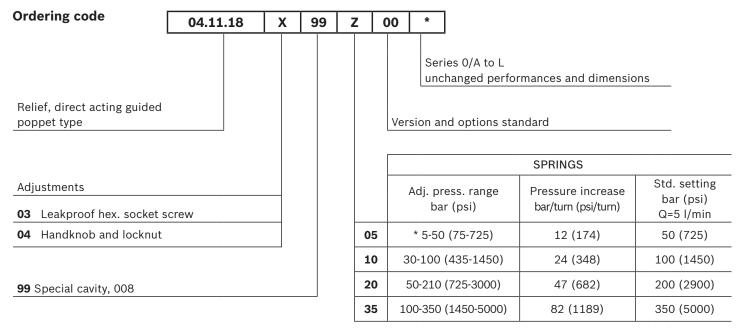
- 1) At 80% of pressure setting
- 2) Standard version 03 type
- 3) Only external seals for 10 valves

Characteristic curve









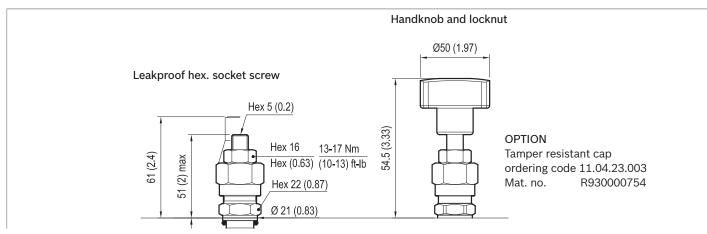
Note: Special settings available. Contact factory authorized representative for ordering code.

Preferred types

Туре	Material number
041118039905000	R901113613
041118039910000	R901113614
041118039920000	R901226876
041118039935000	R901113617

Туре	Material number
041118049905000	R930000148
041118049910000	R930000149
041118049920000	R901127942
041118049935000	R930000151

Dimensions



^{*} minimum pressure setting intended with Q=5 l/min

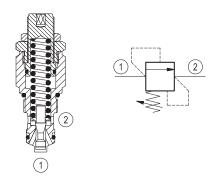




Special cavity, Size 019-E

VMD1.025

0T.M1.02 - X - 99 - Z

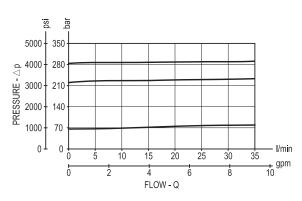


Description

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through port 2 to tank. Pressure at port 2 is additive to the relief setting of the valve. The unique Bosch Rexroth Oil Control poppet design provides enhanced stability at all flows and pressures.

Technical data

Performance

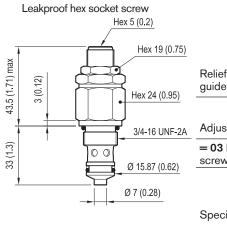


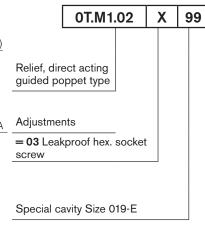
bar (psi)	350 (5000)
l/min (gpm)	35 (9)
Nm (ft-lb)	40-45 (30-33)
	019-E
kg (lbs)	0.13 (0.29)
°C (°F)	between -30 (-22) and +100 (+212)
	I/min (gpm) Nm (ft-lb) kg (lbs)

Ζ

Dimensions

Ordering code





		SPRINGS	
	Adj. press.	Press. increase	Std. setting
	range	bar/turn	press. bar (psi)
	bar (psi)	(psi/turn)	(Q=5 I/min)
= 10	25-120	16.5	100
= 10	(350-1750)	(239)	(1450)
= 20	40-200	26.5	180
= 20	(580-2900)	(384)	(2600)
25	200-350	51	350
= 35	(2900-5000)	(740)	(5000)

mm(Inches)

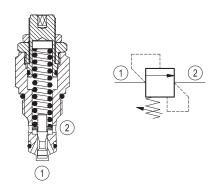




Common cavity, Size 10

VMD1.040

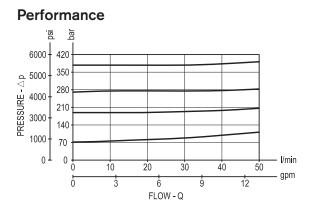
0T.M1.03 - X - 99 - Z



Description

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through port 2 to tank. Pressure at port 2 is additive to the relief setting of the valve. The unique Bosch Rexroth Oil Control poppet design provides enhanced stability at all flows and pressures.

Technical data

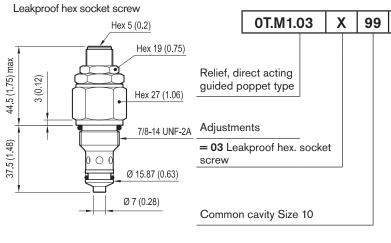


Max pressure	bar (psi)	350 (5000)
Max flow	I/min (gpm)	50 (13)
Installation torque	Nm (ft-lb)	55-65 (41-48)
Cavity		CA-10A-2N
Weight	kg (lbs)	0.17 (0.38)
Fluid temperature range	°C (°F)	between -30 (-22) and +100 (+212)

Ζ

Dimensions

Ordering code



		SPRINGS	
	Adj. press.	Press. increase	Std. setting
	range	bar/turn	press. bar (psi)
	bar (psi)	(psi/turn)	(Q=5 l/min)
= 10	25-120	16.5	100
	(350-1750)	(239)	(1450)
= 20	40-200	26.5	180
	(580-2900)	(384)	(2600)
= 35	200-350	51	350
	(2900-5000)	(740)	(5000)

mm(Inches)

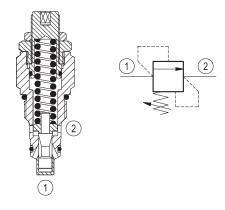




Common cavity, Size 10

VMD1.070

0T.M1.04 - X - 99 - Z



Description

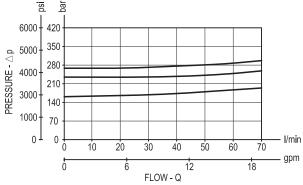
Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through port 2 to tank. Pressure at port 2 is additive to the relief setting of the valve. The unique Bosch Rexroth Oil Control poppet design provides enhanced stability at all flows and pressures.

Technical data

Ζ

psi bar

Performance

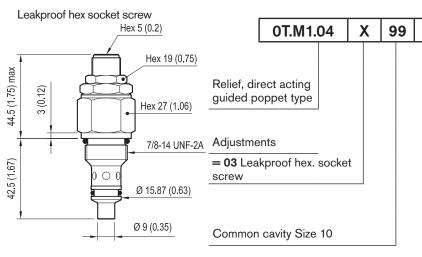


Max pressure	bar (psi)	260 (3800)
Max flow	I/min (gpm)	70 (19)
Installation torque	Nm (ft-lb)	55-65 (41-48)
Cavity		CA-10A-2N
Weight	kg (lbs)	0.18 (0.4)
Fluid temperature range	°C (°F)	between -30 (-22) and +100 (212)

Dimensions

mm (Inches)

Ordering code



		SPRINGS	
	Adj. press.	Press. increase bar/turn	Std. setting press. bar (psi)
= 05	bar (psi)	(psi/turn)	(Q=5 l/min)
	10-60	10	50
= 10	(145-870) 40-110	(145)	(725) 100 (1450)
= 20	(580-1600)	(247)	(1450)
	110-220	31.5	200
	(1600-3200)	(457)	(2900)
= 35	220-260	37	250
	(3200-3800)	(537)	(3600)

Туре	Material number
0TM104039905000	R901099575
0TM104039910000	R901099604
0TM104039920000	R901116269

Туре	Material number
0TM104039935000	R901099642





Relief, direct acting guided poppet type Special cavity, 009

VS-80

04.11.05 - X - 99 - Z

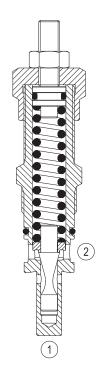
RE 18318-25 Edition: 01.2019

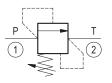
Replaces: 07.2018



Description

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through 2 to tank. Pressure at 2 is additive to the relief setting of the valve. The unique Bosch Rexroth Oil Control poppet design provides enhanced stability at all flows and pressures.

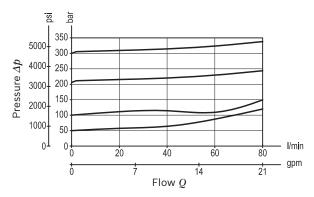




Technical data	
Max. operating pressure port 1 (P)	350 bar (5000 psi)
Max. pressure admitted port 2 (T)	140 bar (2000 psi)
Max. flow	80 l/min (21 gpm)
Max. internal leakage ¹⁾	15 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	83 - 92 Nm (61 - 68 ft-lbs)
Weight	0.35 kg (0.77 lbs)
MTTFD	150 years see RE 18350-51
Special cavity	009 (see data sheet 18325-75)
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit ²⁾	Code: RG0009010000100
	material no: R930001694
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Recommended degree of fluid contamination	Nominal value max. 10µm (NAS 8) / ISO 4406 20/18/15
Installation position	No restrictions
Other Technical Data	See data sheet 18350-50

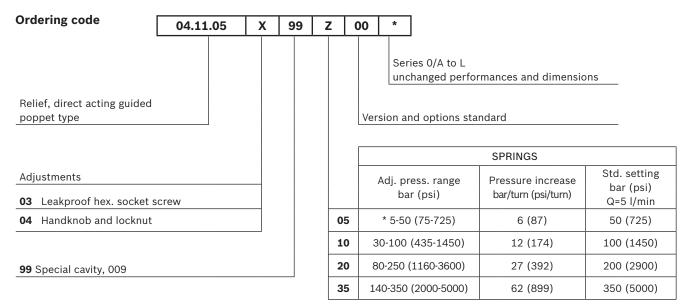
- 1) At 80% of pressure setting
- 2) Only external seals for 10 valves

Characteristic curve









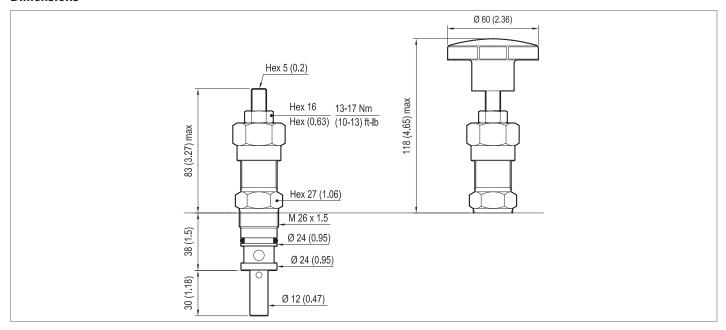
 $\ensuremath{\text{\textbf{Note:}}}$ Special settings available. Contact factory authorized representative for ordering code.

Preferred types

Туре	Material number
041105039905000	R930000117
041105039910000	R930000119
041105039920000	R901113620
041105049910000	R930000121

Туре	Material number
041105049920000	R930000122
041105039935000	R930008396

Dimensions



^{*} minimum pressure setting intended with Q=5 l/min





Relief, pilot operated spool type

Common cavity, Size 10

VSPN-10A

04.12.08 - X - 85 - Z

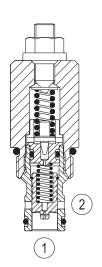
RE 18318-08

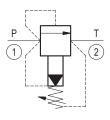
Edition: 03.2016 Replaces: 11.2015



Description

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the conical, pilot-stage poppet from its seat. This action exhausts oil above the mainstage piston (spool type), allowing it to shift and provide relief flow through 2 to tank. Pressure at 2 is additive to the relief setting of the valve.

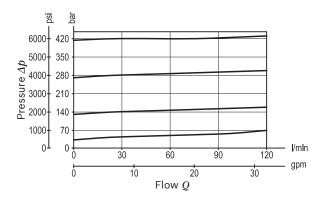




Technical data	
Max. operating pressure port 1 (P)	420 bar (6000 psi)
Max. pressure admitted port 2 (T)	350 bar (5000 psi) for version 03 210 bar (3000 psi) for version 04
Flow range	3 - 120 l/min (1 - 32 gpm)
Max. internal leakage ¹⁾	200 cm ³ /min. (12 cu.in./min.)
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	41 - 47 Nm (30 - 35 ft-lbs)
Weight ²⁾	0.21 kg (0.46 lbs)
Cavity	CA-10A-2N (see data sheet 18325-70)
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
MTTFd	150 years see data sheet 18350-51
Seal kit ³⁾	Code: RG10A2010530100
	material no: R901111366
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Recommended degree of fluid contamination	Nominal value max. 10µm (NAS 8) / ISO 4406 19/17/14
Installation position	No restrictions
Other Technical Data	See data sheet 18350-50

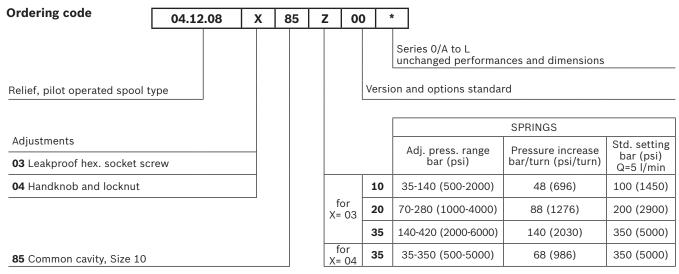
- 1) Measured at 200 bar (2900 psi)
- 2) Standard version X=03 type
- 3) Only external seals for 10 valves

Characteristic curve









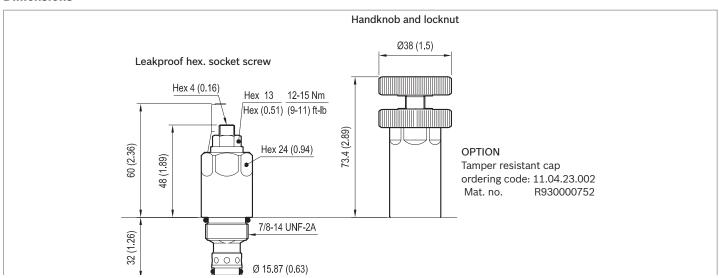
Note: Special settings available. Contact factory authorized representative for ordering code.

Preferred types

Туре	Material number
041208038510000	R901097726
041208038520000	R901097722
041208038535000	R901104103
041208048535000	R901104104

Туре	Material number

Dimensions

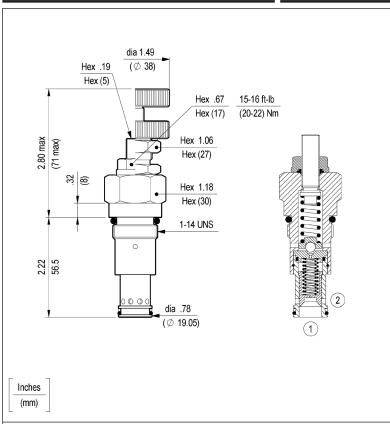


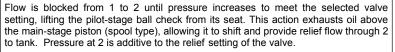


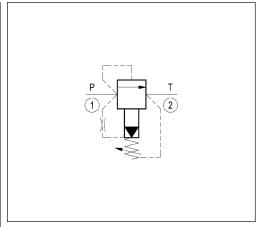


RELIEF, PILOT OPERATED SPOOL TYPE SPECIAL CAVITY

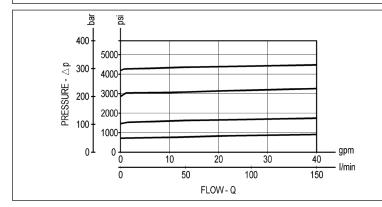
VSP-150 04.12.04 - X - 99 - Z







TECHNICAL DATA		
Max. pressure:	6000 psi	(420 bar)
Max. flow: 40 gpm (150 l/min) Leakage at max relief 0.03 gpm (0.10 l/min) setting ave. : Special cavity: 065 (see page CT.S.002.U)		(150 l/min)
		(0.10 l/min)
		S.002.U)
Installation torque :	89-98 ft-lb	(121-133 Nm)
Weight:	0.617 lbs	(0.280 Kg)
Note: suitable for application where "T" line pressure never exceeds "P" line pressure.		



X	ADJUSTMENTS	
03	Leakproof hex. socket screw	
04	Handknob and locknut	

	SPRINGS				
Z	Adj. press. range psi (bar)	Press. increase psi / turn (bar/turn)	Standard setting psi (bar) (Q=5 l/min)		
05	44-1000 (3-70)	290 (20)	725 (50)		
10	100-1500 (7-105)	377 (26)	1450 (100)		
20	145-3000 (10-210)	508 (35)	2900 (200)		
40	500-6000 (35-420)	1668 (115)	5075 (350)		

OPTIONS		
Ordering code	Description	
11.04.23.004	Tamper resistant cap	
Special settings available. Contact factory authorized		





Pressure relief pilot operated poppet type and anti-cavitation valve Special cavity, FC

VMR2-22-FC VMR2.240.NG

RE 18318-37

Edition: 06.2017 Replaces: 11.2016



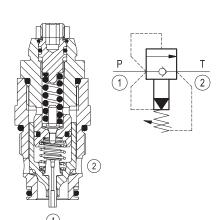
Description

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the conical, pilot-stage poppet from its seat. This action exhausts oil above the main-stage poppet (low-leakage, seat type), allowing it to shift and provide relief flow through 2 to tank. Pressure at 2 is additive to the relief setting of the valve.

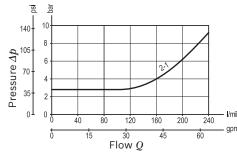
The anti-cavitation function makes up for lacking oil volumes caused, for example, by leakage when pressure valves respond or in the case of leading loads. If the pressure at main port 1 is lower than the one at main port 2, the spool will be lifted out of its seat. Hydraulic fluid flows from main port 2 to main port 1.

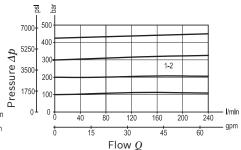
Technical data	
Max. operating pressure port 1 (P)	420 bar (6000 psi)
Max. pressure admitted port 2 (T)	50 bar (725 psi)
Max. flow	240 l/min (63 gpm)
Max. internal leakage ¹⁾	45 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F) (Buna N) -20 to 120 °C (-4 to 248 °F) (Viton)
Installation torque ²⁾	100 Nm (74 ft-lbs)
Weight	0.24 kg (0.53 lbs)
MTTFd	150 years see RE 18350-51
Special cavity	FC (see data sheet 18325-75)
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit (Viton)	Code: RG22R2040520100
	material no: R930052887
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 380 mm ² /s (cSt)
Recommended degree of fluid contamination	Nominal value max. 10µm (NAS 9) / ISO 4406 20/18/15
Installation position	No restrictions
Other Technical Data	See data sheet 18350-50
Without surface protection	In case of need of surface protection, please consult factory.

- 1) At 80% of pressure setting.
- 2) Torque value valid for installation in cast iron and steel manifolds. In case of different body materials, please consult factory.



Characteristic curve



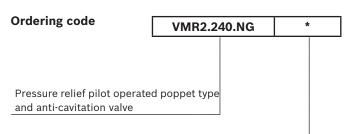






2 VMR2-22-FC | Pressure relief pilot operated poppet type, and anti-cavitation valve

Dimensions [mm (inches)]



	SPRINGS Adj. press. range bar (psi) Pressure increase bar/turn (psi/turn)		O-RING
			Material
000	100-420 (1450-6090)	300 (4350)	Buna N (NBR)
010	100-420 (1450-6090)	300 (4350)	Viton (FKM)

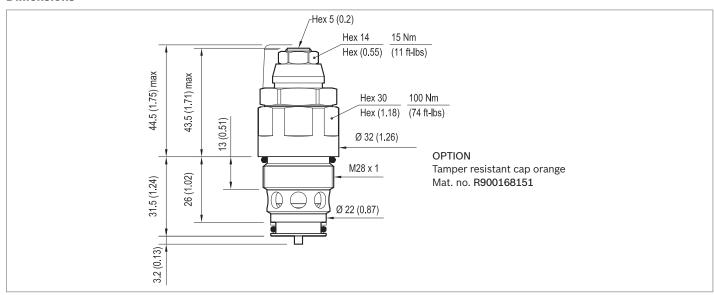
^{*} Valves are delivered set at pressure setting <25 bar and with adjustment device not tighten. Fine setting to be done by customer. For case of request of factory set valve, please consult factory.

Preferred types

Туре	Material number	Туре
VMR2.240.NG.000	R930057206	
VMR2.240.NG.010	R930052892	

Туре	Material number

Dimensions







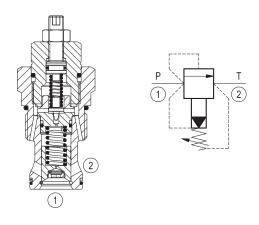
Relief, pilot operated spool type

Common cavity, Size 16

VSPN-16A

04.12.11 - X - 27 - Z

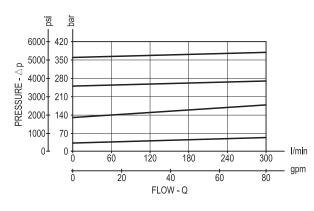




Description

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the conical, pilot-stage poppet from its seat. This action exhausts oil above the main-stage piston (spool type), allowing it to shift and provide relief flow through 2 to tank. Pressure at 2 is additive to the relief setting of the valve. Pilot operation is protected from contamination by a filter screen at the bottom of the main piston.

Performance



Technical data

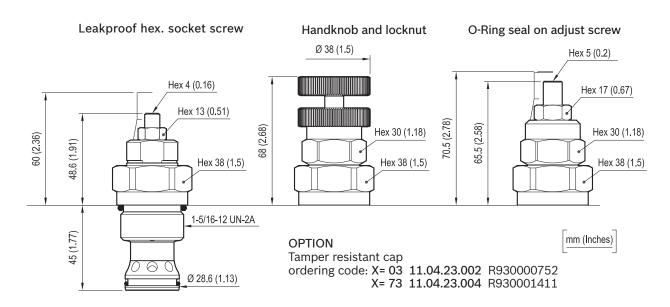
Max. operating pressure bar (psi) port 1 (P)	420 (6000)
Max. pressure admitted port 2 (T) bar (psi)	140 (2000)
Flow range I/min. (gpm)	8-300 (2-79)
Max. internal leakage (*) cm³/min. (cu.in./min.)	350 (21)
Fluid temperature range °C (°F)	-30 to 100 (-22 to 212)
Installation torque Nm (ft-lbs)	108-122 (80-90)
Weight (**) kg (lbs)	0.45 (0.99)
Cavity	CA-16A-2N see data sheet RE 18325-70
Seal kit (***) code material no.	RG16A2010520100 R901111386
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Filtration	Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation	No restrictions
Other general technical data	See data sheet RE 18350-50
(4)	`

- (*) Measured at 200 bar (2900 psi)
- (**) Standard version X=03 type
- (***) Only external seals for 10 valves

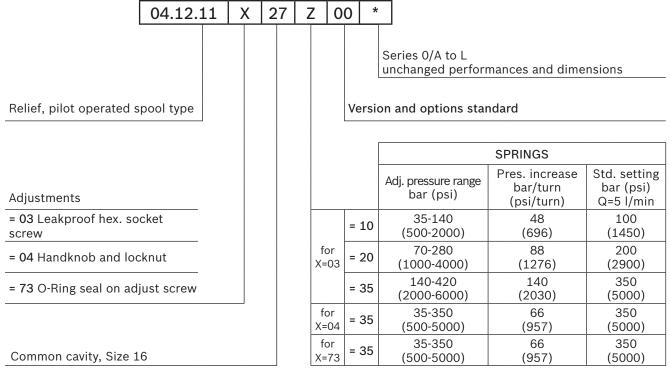




Dimensions



Ordering code



Note: Special settings available. Contact factory authorized representative for ordering code





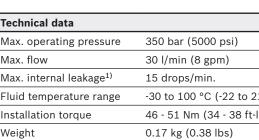
Relief, direct acting poppet type pressure compensated Special cavity, 008

VS-30-CC

04.11.27 - X - 99 - Z

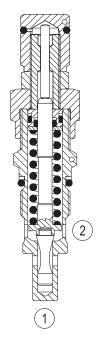
RE 18318-26 Edition: 03.2016

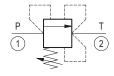
Replaces: 07.2012



Description

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through 2 to tank. The valve applies a balanced piston design allowing consistent relief operation at the valve setting independent of back-pressure at 2. The unique Bosch Rexroth Oil Control poppet design provides enhanced stability at all flows and pressures.

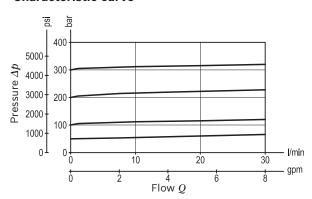




Technical data	
Max. operating pressure	350 bar (5000 psi)
Max. flow	30 l/min (8 gpm)
Max. internal leakage ¹⁾	15 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	46 - 51 Nm (34 - 38 ft-lbs)
Weight	0.17 kg (0.38 lbs)
Special cavity	008 (see data sheet 18325-75)
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit ²⁾	Code: RG0008010520100
	material no: R930001693
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm²/s (cSt)
Recommended degree of fluid contamination	Nominal value max. 10µm (NAS 8) / ISO 4406 19/17/14
Installation position	No restrictions
Other Technical Data	See data sheet 18350-50

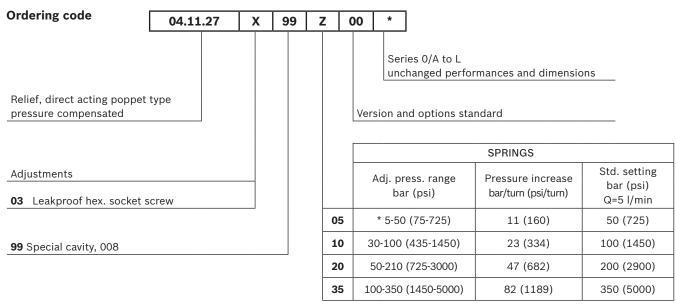
- 1) At 80% of pressure setting
- 2) Only external seals for 10 valves

Characteristic curve









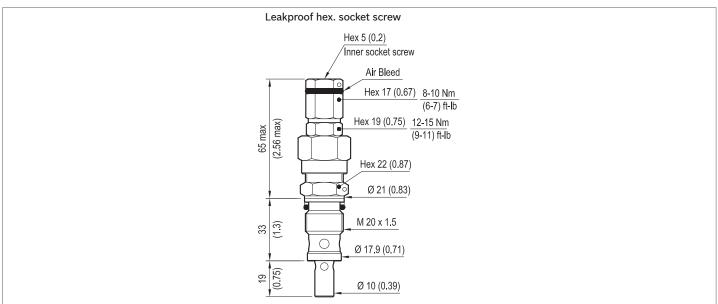
Note: Special settings available. Contact factory authorized representative for ordering code.

Preferred types

Туре	Material number
04112703990500D	R930006231
04112703991000D	R930006233
04112703992000D	R930006234
04112703993500D	R930006239

Туре	Material number

Dimensions



^{*} minimum pressure setting intended with Q=5 I/min





Priority unloading pilot operated

Common cavity, Size 08

VMSN-08A

RE 18318-16

Edition: 03.2016 Replaces: 12.2011



Description

Flow is blocked from 2 to 3 until pressure increases to meet the selected valve setting, lifting the small, pilot-stage poppet from its seat. This action exhausts oil above the main-stage piston (spool type), allowing it to shift fully and unload flow from 2 through 3 with minimal pressure drop. Similarly, when remote pilot pressure at 1 exceeds the pressure setting, a secondary piston lifts the pilot-stage poppet from its seat, again exhausting fluid from 2 through 3.

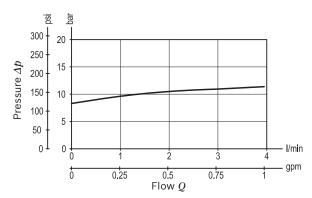
3	X 1 2
(1)	

Technical data	
Max. operating pressure port 1-2	350 bar (5000 psi)
Max. pressure admitted port 3	50 bar (750 psi)
Max. flow	3 l/min (1 gpm)
Max. internal leakage ¹⁾	15 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	34 - 41 Nm (25 - 30 ft-lbs)
Weight	0.14 kg (0.31 lbs)
Cavity	CA-08A-3N (see data sheet 18325-70)
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit ²⁾	Code: RG08A3010520100
	material no: R930000861
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Recommended degree of fluid contamination	Nominal value max. 10µm (NAS 8) / ISO 4406 19/17/14
Installation position	No restrictions
Other Technical Data	See data sheet 18350-50
1) At 90% of proceure setting	_

- 1) At 80% of pressure setting
- 2) Only external seals for 10 valves

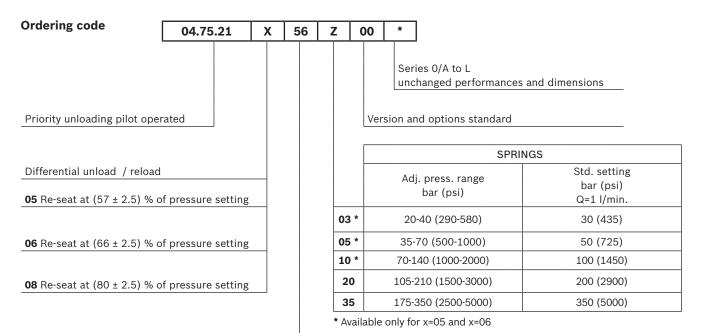
04.75.21 - X - 56 - Z

Characteristic curve









ordering code.

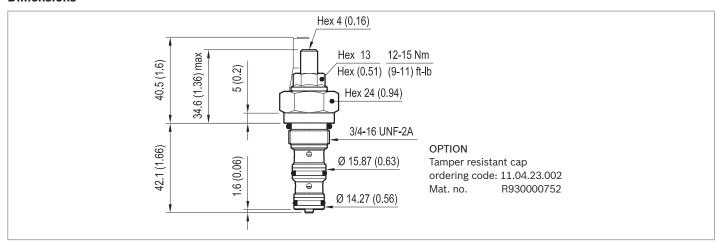
56 Common cavity, Size 08

Туре	Material number
047521055603000	R930006649
047521055605000	R930006650
047521055610000	R930006651
047521055620000	R930006647
047521055635000	R930006648
047521065603000	R901109763
047521065605000	R901109764

Туре	Material number
047521065610000	R901109765
047521065620000	R901109766
047521065635000	R901109767
047521085620000	R930055341
047521085635000	R930055303

Note: Special settings available. Contact factory authorized representative for

Dimensions



Preferred types





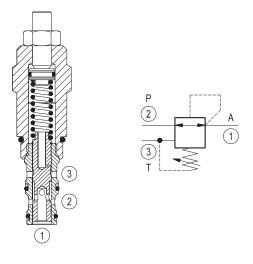
Pressure reducing and relieving, direct acting spool type

Common cavity, Size 10

VRPR-10A

04.95.04 - X - 85 - Z

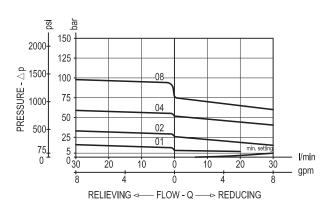




Description

Initially, flow passes freely from 2 to 1. When the pressure at 1 exceeds the pressure setting, the valve acts to restrict input flow at 2. This increases the pressure drop through the valve and maintains consistent pressure at 1. The spring chamber is drained at 3 to prevent a build-up of back-pressure against the spool. Additionally, if pressure at 1 rises above the pressure setting, flow is relieved to 3 until the setting is re-attained.

Performance



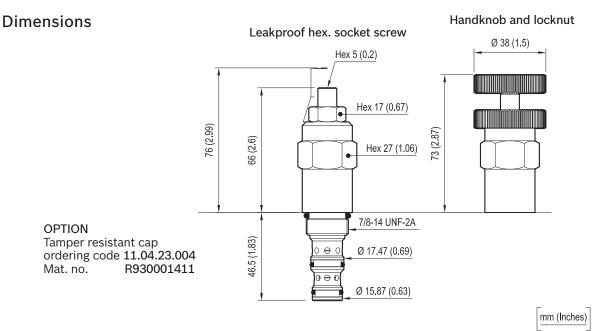
Technical data

Max. operating pressure port 2 (P) bar (psi)	350 (5000) 210 (3000) for version Z=01		
Max. pressure admitted port 1 (A) bar (psi)	105 (1500)		
Max. flow I/min. (gpm)	30 (8)		
Max. internal leakage (*) cm³/min. (cu.in./min.)	50 (3)		
Fluid temperature range °C (°F)	-30 to 100 (-22 to 212)		
Installation torque Nm (ft-lbs)	41-47 (30-35)		
Weight (**) kg (lbs)	0.26 (0.57)		
Cavity	CA-10A-3N see data sheet RE 18325-70		
Seal kit (***) code material no.			
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm²/s (cSt)		
Filtration	Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14		
Installation	No restrictions		
Other general technical data	See data sheet RE 18350-50		

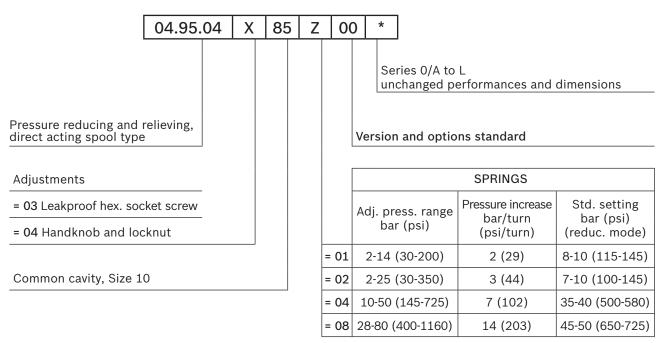
- (*) 1 3 to 80% of pressure setting
- (**) Standard version X=03 type
- (***) Only external seals for 10 valves







Ordering code



Note: Special settings available. Contact factory authorized representative for ordering code





Pressure reducing and relieving, pilot operated spool type Common cavity, Size 10

VRPX-10A

04.93.07 - X - 85 - Z

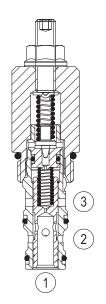
Edition: 03.2016 Replaces: 07.2012

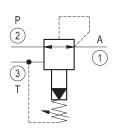
RE 18318-56



Description

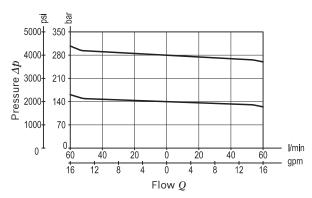
Initially, flow passes freely from 2 to 1. When the pressure at 1 exceeds the pressure setting, the conical poppet in the upper, pilot stage is lifted from its seat. This allows the main-stage piston to shift, restricting input flow at 2. This increases the pressure drop through the valve and maintains consistent pressure at 1. The spring chamber is drained at 3 to prevent a build-up of back-pressure against the spool. Additionally, if pressure at 1 rises above the pressure setting, flow is relieved to 3 until the setting is re-attained.





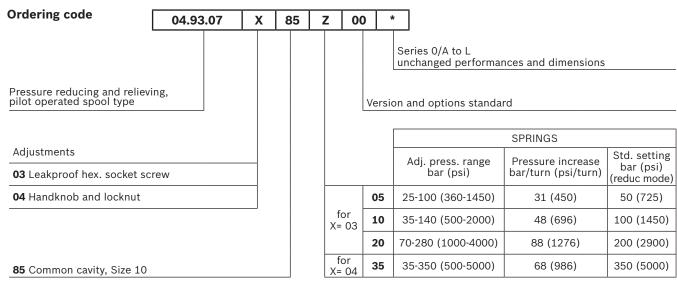
Technical data	
Max. operating pressure port 2 (P)	350 bar (5000 psi)
Max. pressure admitted port 1 (A)	280 bar (4000 psi)
Max. flow	60 l/min (16 gpm)
Standard internal pilot orifice diameter	0.6 mm
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	41 - 47 Nm (30 - 35 ft-lbs)
Weight ¹⁾	0.2 kg (0.44 lbs)
Cavity	CA-10A-3N (see data sheet 18325-70)
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit ²⁾	Code: RG10A3010520100
	material no: R901111369
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Recommended degree of fluid contamination	Nominal value max. 10µm (NAS 8) / ISO 4406 19/17/14
Installation position	No restrictions
Other Technical Data	See data sheet 18350-50

- 1) Standard version X=03 type
- 2) Only external seals for 10 valves







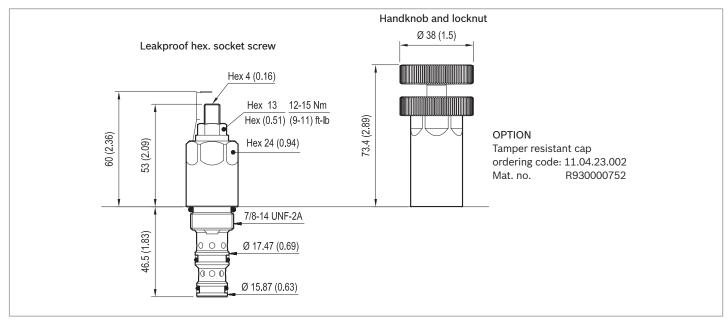


Note: Special settings available. Contact factory authorized representative for ordering code.

Preferred types

Туре	Material number
049307038505000	R930006982
049307038510000	R901104118
049307038520000	R901106468
049307048535000	R930005596

Туре	Material number
	







Counterbalance, standard guided poppet type

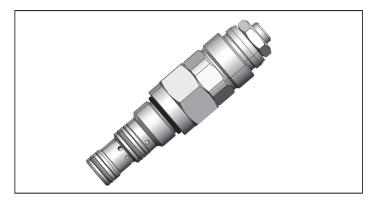
Common cavity, Size 08

VBSN-08AA

04.52.20 - X - 56 - Z

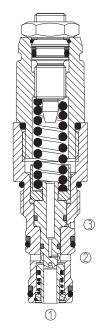
RE 18320-01

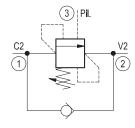
Edition: 07.2021 Replaces: 01.2021



Description

When pressure at 2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from 2 to 1. When load pressure at 1 rises above the pressure setting, the direct-acting, relief function is activated and flow is relieved from 1 to 2. With pilot pressure at 3, the pressure setting is reduced in proportion to the stated ratio of the valve, until fully open with free-flow from 1 to 2. The spring chamber is drained to 2, and any back-pressure at 2 is additive to the pressure setting in all functions. Valve design prevents spring going solid and complete unscrewing during adjusting.

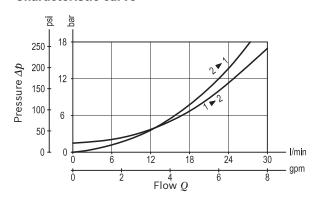




Technical data	
Max. operating pressure	350 bar (5000 psi)
Max. flow	30 l/min (8 gpm)
Max. internal leakage ¹⁾	5 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	34 - 41 Nm (25 - 30 ft-lbs)
Weight	0.18 kg (0.4 lbs)
MTTFD	150 years see RE 18350-51
Cavity	CA-08A-3C (see data sheet 18325-70)
Adjustment	according to ISO 4413 with sealed adjustment screw to prevent oil leakage during adjustment
Salt spray test	500h according to DIN EN ISO 9227:2017-07
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit ²⁾	Code: RG08A9010520100
	material no: R901101592
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Recommended degree of fluid contamination	Nominal value max. 10µm (NAS 8) / ISO 4406 19/17/14
Installation position	No restrictions
Other Technical Data	See data sheet 18350-50
	8.: 11 1 1: 1 1

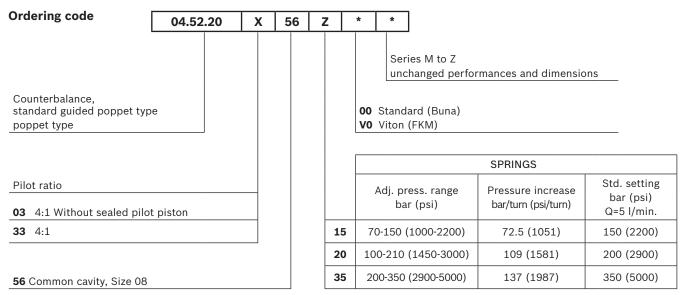
Pressure setting: at least 1.3 times the load induced pressure and maximum 1.5 times catalogue max nominal setting.

- 1) At 70% of pressure setting
- 2) Only external seals for 10 valves







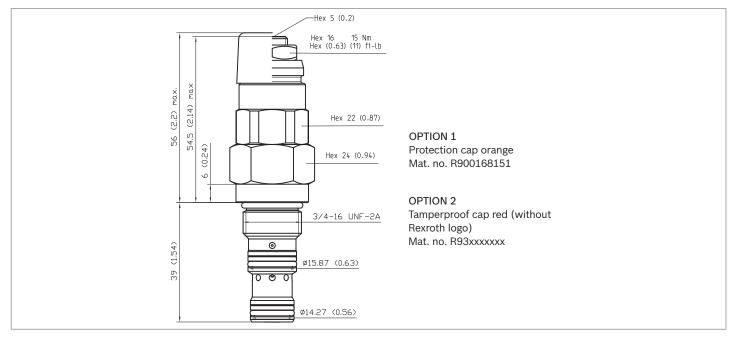


Note: Special settings available with optional tamperproof cap. Contact factory authorized representative for ordering code.

Preferred types

Туре	Material number
04522033563500M	R930081365
04522003561500M	R930081219
04522003562000M	R930081221
04522003563500M	R930081224

Туре	Material number
04522033562000M	R930081227



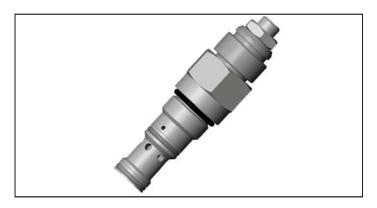




Counterbalance, standard poppet type differential area Common cavity, Size 10

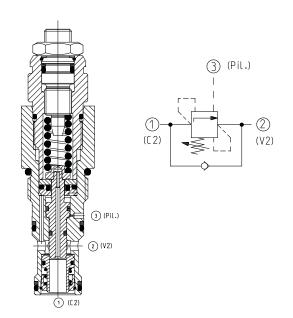
VBSN-10A

RE 18320-02 Edition: 01.2021 04.52.31 - X - 85 - Z Replaces: 06.2019



Description

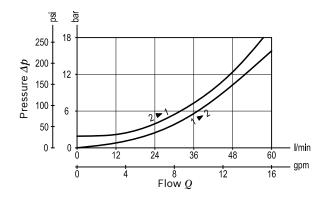
When pressure at 2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from 2 to 1. When load pressure at 1 rises above the pressure setting, the direct-acting, differential area relief function is activated and flow is relieved from 1 to 2. With pilot pressure at 3, the pressure setting is reduced in proportion to the stated ratio of the valve, until fully open with free-flow from 1 to 2. The spring chamber is drained to 2, and any back-pressure at 2 is additive to the pressure setting in all functions. Valve design prevents spring going solid and complete unscrewing during adjusting.



Technical data	
Max. operating pressure	350 bar (5000 psi)
Max. flow	60 l/min (16 gpm)
Max. internal leakage ¹⁾	15 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	41 - 47 Nm (30 - 35 ft-lbs)
Weight	0.2 kg (0.44 lbs)
MTTFD	150 years see RE 18350-51
Cavity	CA-10A-3C (see data sheet 18325-70)
Adjustment	according to ISO 4413 with sealed adjustment screw to prevent oil leakage during adjustment
Salt spray test	500h according to DIN EN ISO 9227:2017-07
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit ²⁾	Code: RG10A9010520100
	material no: R901111367
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Recommended degree of fluid contamination	Nominal value max. 10µm (NAS 8) / ISO 4406 19/17/14
Installation position	No restrictions
Other Technical Data	See data sheet 18350-50

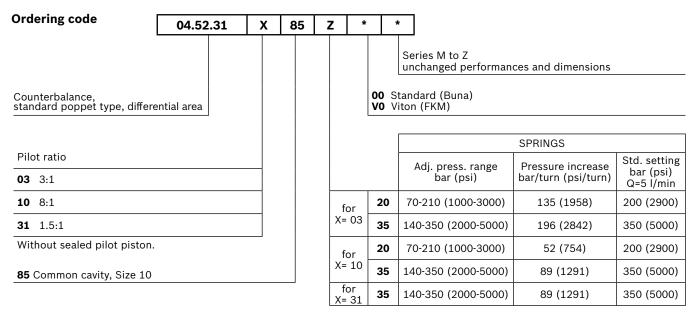
Pressure setting: at least 1.3 times the load induced pressure and maximum 1.5 times catalogue max nominal setting.

- 1) At 70% of pressure setting
- 2) Only external seals for 10 valves







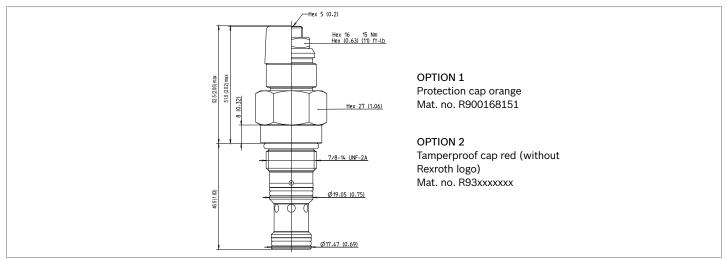


Note: Special settings available with optional tamperproof cap. Contact factory authorized representative for ordering code.

Preferred types

Туре	Material number
04523131853500M	R930080592
04523103852000M	R930081264
04523103853500M	R930081266
04523110852000M	R930081267

Туре	Material number
04523110853500M	R930081268



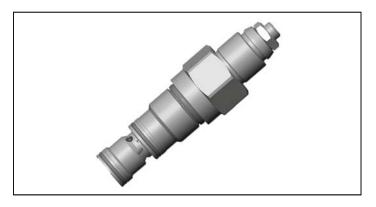




Counterbalance, standard poppet type differential area Common cavity, Size 12

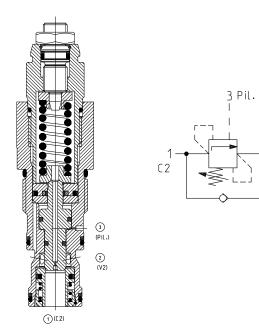
VBSN-12A 04.52.28 - X - 57 - Z

RE 18320-03Edition: 01.2021
Replaces: 06.2019



Description

When pressure at 2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from 2 to 1. When load pressure at 1 rises above the pressure setting, the direct-acting, differential area relief function is activated and flow is relieved from 1 to 2. With pilot pressure at 3, the pressure setting is reduced in proportion to the stated ratio of the valve, until fully open with free-flow from 1 to 2. The spring chamber is drained to 2, and any back-pressure at 2 is additive to the pressure setting in all functions. Valve design prevents spring going solid and complete unscrewing during adjusting.

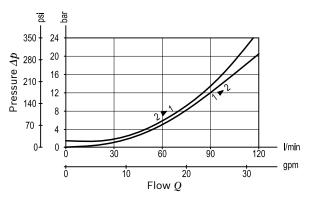


Technical data	
Max. operating pressure	350 bar (5000 psi)
Max. flow	120 l/min (32 gpm)
Max. internal leakage ¹⁾	15 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	81 - 95 Nm (60 - 70 ft-lbs)
Weight	0.39 kg (0.86 lbs)
MTTFD	150 years see RE 18350-51
Cavity	CA-12A-3C (see data sheet 18325-70)
Adjustment	according to ISO 4413 with sealed adjustment screw to prevent oil leakage during adjustment
Salt spray test	500h according to DIN EN ISO 9227:2017-07
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit ²⁾	Code: RG12A9010520100
	material no: R901111379
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Recommended degree of fluid contamination	Nominal value max. 10µm (NAS 8) / ISO 4406 19/17/14
Installation position	No restrictions
Other Technical Data	See data sheet 18350-50

Pressure setting: at least 1.3 times the load induced pressure and maximum 1.5 times catalogue max nominal setting.

- 1) At 70% of pressure setting
- 2) Only external seals for 10 valves

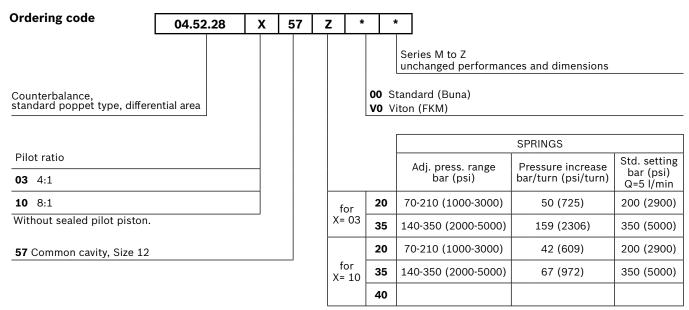
Characteristic curve



٧2





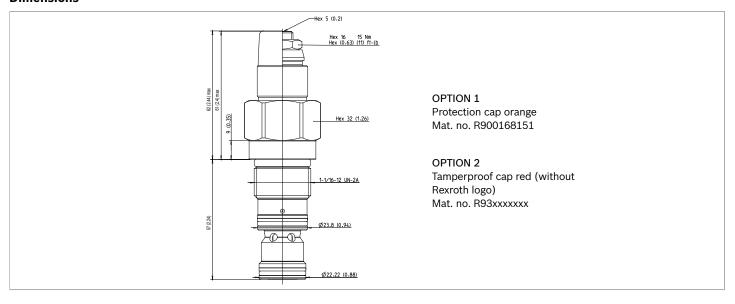


Note: Special settings available with optional tamperproof cap. Contact factory authorized representative for ordering code.

Preferred types

Туре	Material number
04522803572000M	R930081269
04522803573500M	R930081270
04522810572000M	R930081273
04522810573500M	R930081274

Material number	
R930081275	

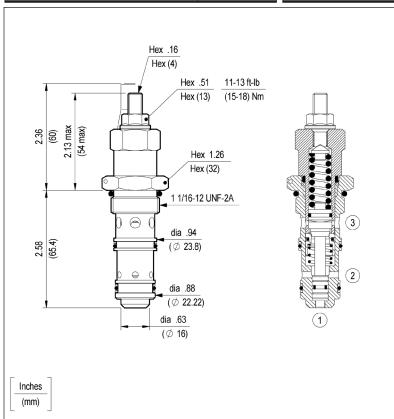




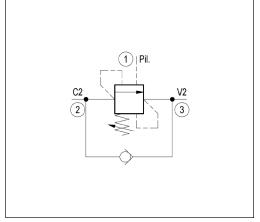


COUNTERBALANCE, STANDARD POPPET TYPE DIFFERENTIAL AREA SPECIAL CAVITY

VBSO-SEC-30 04.52.04 - X - 99 - Z



When pressure at 3 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from 3 to 2. When load pressure at 2 rises above the pressure setting, the direct-acting, differential area relief function is activated and flow is relieved from 2 to 3. With pilot pressure at 1, the pressure setting is reduced in proportion to the stated ratio of the valve, until fully open with free-flow from 2 to 3. The spring chamber is drained to 3, and any back-pressure at 3 is additive to the pressure setting in all functions.



TECHNICAL DATA				
Max. pressure:	5000 psi	(350 bar)		
Max. flow:	16 gpm	(60 l/min)		
Special cavity: 063	(see page CT	T.S.002.U)		
Installation torque :	86-95 ft-lb	(116-128 Nm)		
Weight:	0.551 lbs	(0.250 Kg)		
Pressure setting: at least 1.3 times the load induced pressure				

PRESSURE - △ p 20 - 10 - 10 - 110 - 12 - 14 - 14 - 15 - 16 - 17 - 18 - 18 - 18 - 19 - 10 -	350 280 210 140 70			\$2 *	1 (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		
10	0	4	8	-	12	16	_ gpm _ I/min
	0	12	24 FLOV	36 V - Q	48	60	

X	PILOT RATIO
03	4.2 : 1

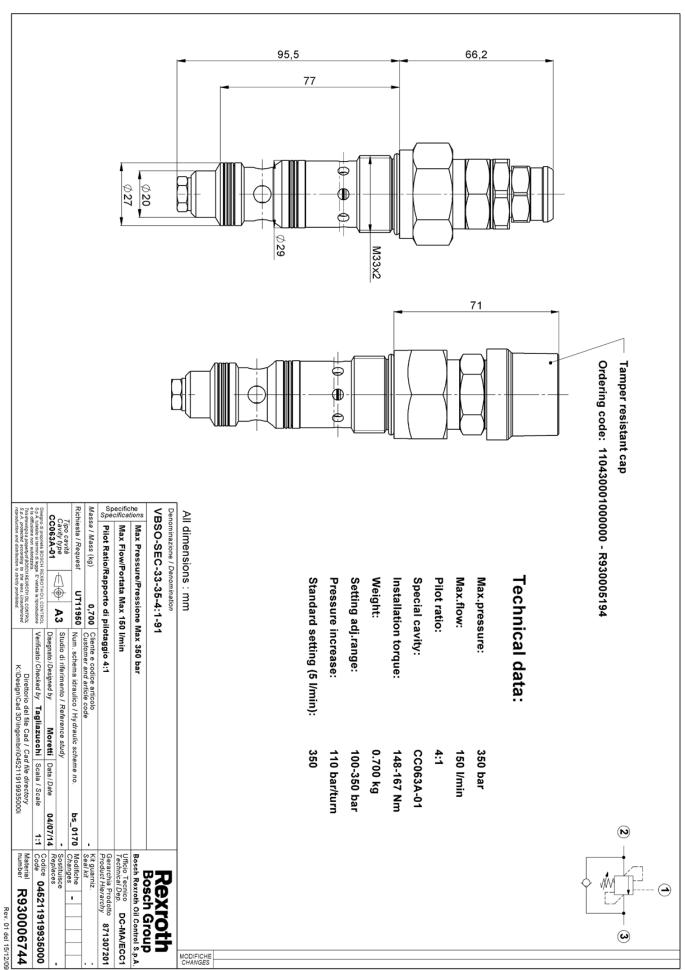
_	SPRINGS			
Z	Adj. press. range psi (bar)	Press. increase psi / turn (bar/turn)	Standard setting psi (bar) (Q=5 l/min)	
20	870-3000 (60-210)	812 (56)	2900 (200)	
35	1450-5000 (100-350)	2001 (138)	5000 (350)	

OPTIONS		
Ordering code	Description	
11.04.23.002	Sealing cap	
Special settings available. Contact factory authorized		

Special settings available. Contact factory authorized representative for ordering code.











Flow control, cartridge restrictor Common cavity, Size 08

ST-C-06

OD.21.01 - X - 56

RE 18321-26Edition: 03.2016
Replaces: 11.2015

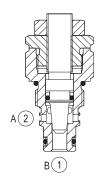


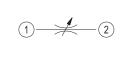
Description

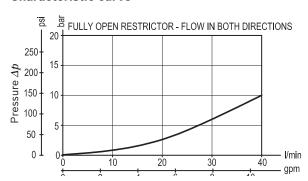
Increasing the orifice value from fully closed to fully open, flow is permitted and regulated bi-directional from 1 to 2 and from 2 to 1. With valve fully closed no leakage permitted between ports 1 and 2.

350 bar (5000 psi)
40 l/min. (11 gpm)
-30 to 100 °C (-22 to 212 °F)
39 - 51 Nm (29 - 38 ft-lbs)
0.09 kg (0.2 lbs)
CA-08A-2N (see data sheet 18325-70)
Please refer to section "Hydraulic integrated circuit" or consult factory
Code: RG08A2010530100
material no: R901101544
Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Nominal value max. 10µm (NAS 8) / ISO 4406 19/17/14
No restrictions
See data sheet 18350-50

¹⁾ Only external seals for 10 valves

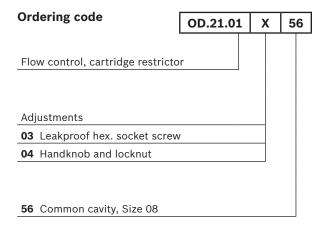








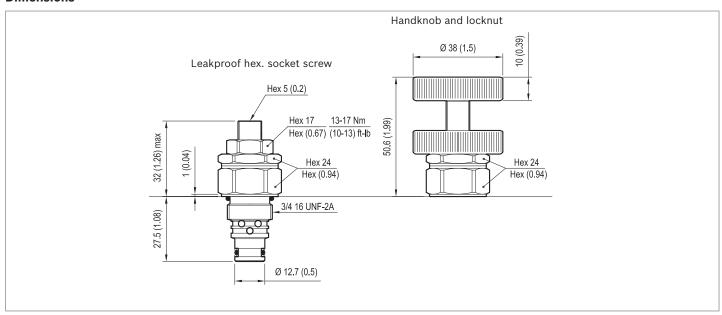




Preferred types

Туре	Material number
OD21010356	R901109366
OD21010456	R901109367

Туре	Material number

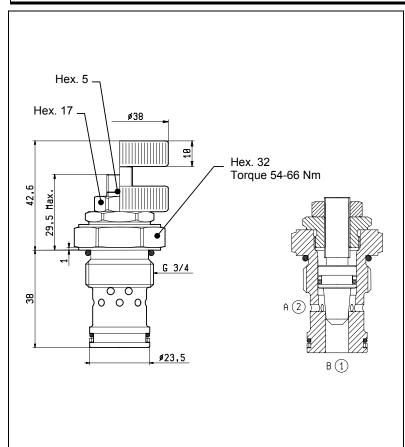


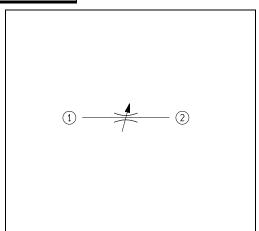




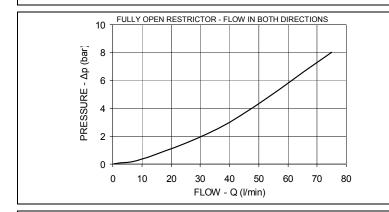
FLOW CONTROL VALVES CARTRIDGE RESTRICTORS

ST-C-09 OD.21.01 - X - 04





TECHNICAL	DA	TA		
Maximum Operating Pressure	350)		bar
Rated Flow	70		I	/min
Cavity - Tooling (017-E)		page	7.01	.100
Weight	0.18	30		kg
Fluids - Temperatures		page	7.01	.040
Testing Conditions - Seals		page	7.01	.040
Internal Leakage		page	7.01	.040
Filtration : 25 μm nominal of better	or	page	7.01	.050
Adjustment Torque at 10 bar		1		Nm
Adjustment Torque at 350 bar		10		Nm
Mounting Position		un	restri	cted



X	ORDERING OPTIONS	
03	Socket Screw	
04	Handknob and Locknut	





Flow control, cartridge restrictor Common cavity, Size 10

ST-C-10

OD.21.01 - X - 36

RE 18321-27Edition: 03.2016
Replaces: 02.2011

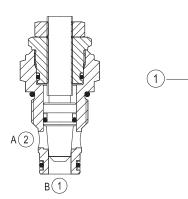


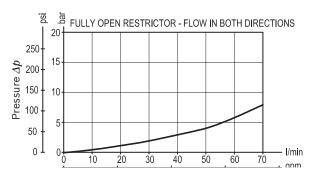
Description

Increasing the orifice value from fully closed to fully open, flow is permitted and regulated bi-directional from 1 to 2 and from 2 to 1. With valve fully closed no leakage permitted between ports 1 and 2.

Technical data	
Max. operating pressure	350 bar (5000 psi)
Rated flow	70 l/min. (19 gpm)
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	44 - 56 Nm (33 - 41 ft-lbs)
Weight	0.18 kg (0.4 lbs)
Cavity	CA-10A-2N (see data sheet 18325-70)
Lines bodies and standard	Please refer to section "Hydraulic
assemblies	integrated circuit" or consult factory
Seal kit ¹⁾	Code: RG10A2010530100
	material no: R901111366
Fluids	Mineral-based or synthetics with
	lubricating properties
	at viscosities of 10 to 500 mm ² /s (cSt)
Recommended degree of	Nominal value max. 10µm (NAS 8) /
fluid contamination	ISO 4406 19/17/14
Installation	No restrictions
Other Technical Data	See data sheet 18350-50

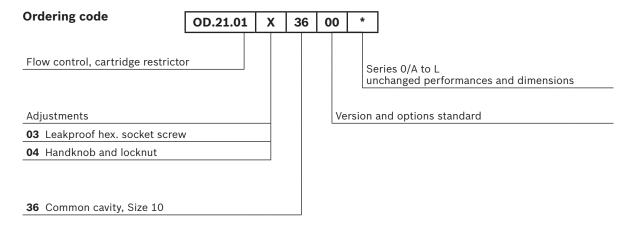
 $[\]scriptstyle{ exttt{1)}}$ Only external seals for 10 valves







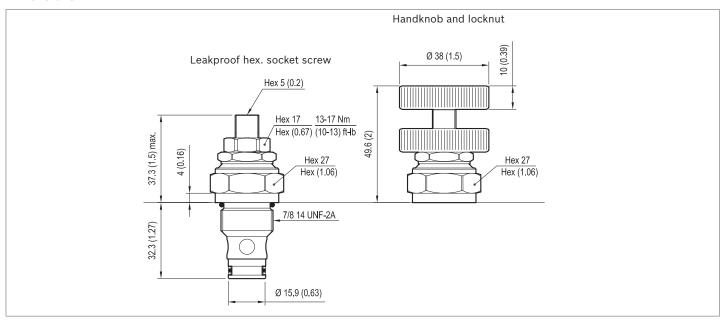




Preferred types

Туре	Material number
OD210103360000	R901109830
OD210104360000	R901109831

Туре	Material number







Insert type Flow control, restrictor with reverse flow check

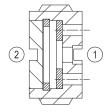


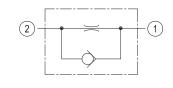
GSU1



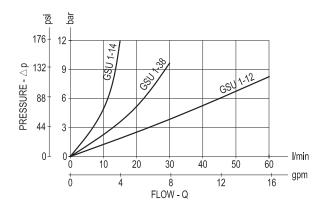
The "B-A" flow is restricted by a calibrated orifice while flow "A-B" is always allowed through the incorporated check valve. Pressure compensation is not provided and flow depends from pressure drop and viscosity.

The GSU1 cartridge is available in different orifice sizes.





Performance



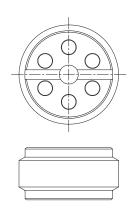
Technical data

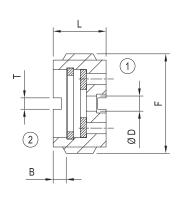
Max. operating pressure	bar (psi)	300 (4300)
Max. flow	l/min. (gpm)	see "Regulated flow range" table
Fluid temperature range	°C (°F)	-30 to 100 (-22 to 212)
Weight	kg (lbs)	see "Dimensions" table
Special cavity		see "Dimensions"
Lines bodies and stand assemblies	dard	Please refer to section "Hydraulic integrated circuit" or consult factory
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Recommended degree of contamination	fluid	Nominal value max. 10μm (NAS 8) ISO 4406 20/18/15
Installation		No restrictions
Other Technical Data		See data sheet RE 18350-50





Dimensions

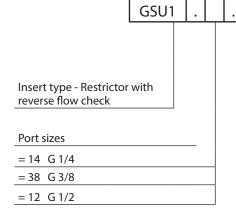




F	L	В	Т	Weight kg (lbs)	Flow max. I/min. (gpm)
G 1/4	7 (0.28)	1.1 (0.04)	2 (0.08)	0.005 (0.011)	15 (4)
G 3/8	8.5 (0.33)	1.5 (0.06)	1.5 (0.06)	0.009 (0.02)	30 (8)
G 1/2	11 (0.43)	2 (0.08)	1.5 (0.06)	0.018 (0.04)	70 (18)

Note: available also as "Sleeve valve for line mounting" See data sheet RE 18316-02

Ordering code



	Standard hole diameter ØD						
		mm (inches)					
	for	for	for				
	port = 14	port = 38	port = 12				
= 000	wihout hole	wihout hole	wihout hole				
= 030	0.3 (0.012)	-	-				
= 040	0.4 (0.016)	-	-				
= 050	0.5 (0.02)	0.5 (0.02)	-				
= 060	0.6 (0.024)	0.6 (0.024)	-				
= 065	0.65 (0.026)	-	-				
= 075	0.75 (0.03)	0.75 (0.03)	-				
= 080	0.8 (0.031)	0.8 (0.031)	-				
= 100	1 (0.039)	1 (0.039)	1 (0.039)				
= 110	1.1 (0.043)	-	-				
= 120	1.2 (0.047)	-	-				
= 125	1.25 (0.049)	1.25 (0.049)	-				
= 130	-	-	1.3 (0.051)				
= 150	1.5 (0.059)	1.5 (0.059)	1.5 (0.059)				
= 160	1.6 (0.063)	1.6 (0.063)	-				
= 170	1.7 (0.067)	-	-				
= 190	-	-	1.9 (0.075)				
= 200	2 (0.079)	2 (0.079)	2 (0.079)				
= 220	-	2.2 (0.087)	-				
= 250	2.5 (0.098)	2.5 (0.098)	2.5 (0.098)				
= 300	-	-	3 (0.12)				





Needle restrictor, free reverse flow Common cavity, Size 08

STVU-08A

RE 18321-10 Edition: 03.2016

Replaces: 11.2009



Description

With flow from 2 to 1, the valve provides a fully adjustable orifice restriction. Free flow is permitted from 1 to 2, regardless of valve adjustment, by when pressure overcomes the spring bias of the valve's check function.

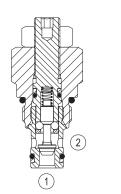
	9			

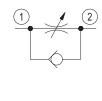
Technical data	
Max. operating pressure	350 bar (5000 psi)
Max. flow	40 l/min. (11 gpm)
Max. internal leakage ¹⁾	15 drops/min. closed
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	34 - 41 Nm (25 - 30 ft-lbs)
Weight	0.16 kg (0.35 lbs)
Cavity	CA-08A-2N (see data sheet 18325-70)
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit ²⁾	Code: RG08A2010520100
	material no: R901101437
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 5 to 800 mm ² /s (cSt)
Recommended degree of fluid contamination	Nominal value max. 10µm (NAS 8) / ISO 4406 19/17/14
Installation	No restrictions
Other Technical Data	See data sheet 18350-50

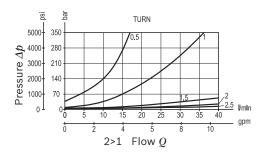
1) Measured at 200 bar (2900 psi)

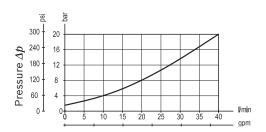
04.01.03 - X - 56.00

2) Only external seals for 10 valves







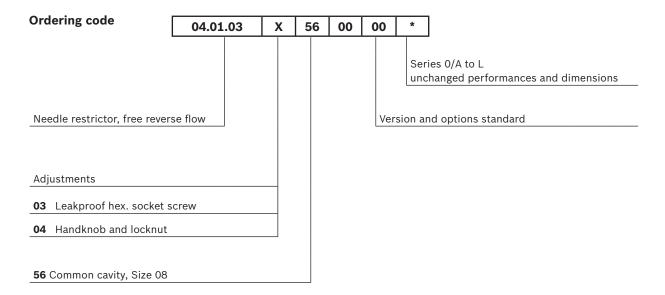






2 **STVU-08A** | Needle restrictor, free reverse flow

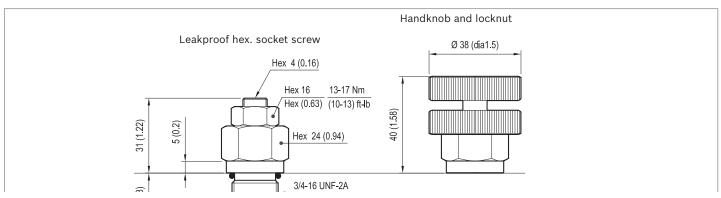
Dimensions [mm (inches)]



Preferred types

Туре	Material number
040103035600000	R930000002
040103045600000	R930000003

Туре	Material number
-	



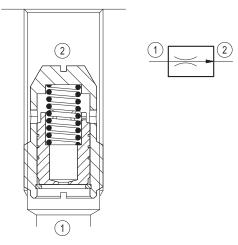




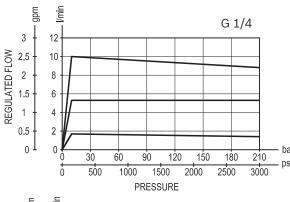
Insert type Flow control, 2-way pressure compensated fixed setting

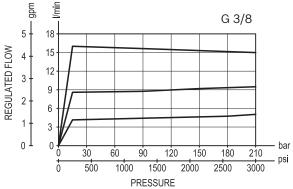
SFC1 0T.F1.01.00 - Y - Z





Performance



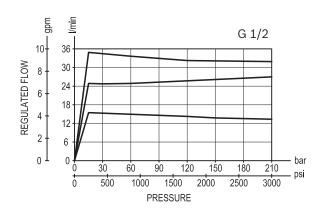


Description

A constant flow rate, regardless of system pressures, is established from 1 to 2 while a minimum pressure differential of 145 psi exists between the two ports. The valve cannot be adjusted for variable flow output. Flow from 2 to 1 is limited by the diameter of the selected control orifice and is not pressure compensated.

Technical data

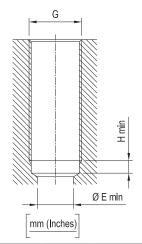
Max. operating pressure	bar (psi)	210 (3000)
Max. flow I/n	nin. (gpm)	see "Regulated flow range" table
Fluid temperature range	°C (°F)	-30 to 100 (-22 to 212)
Weight	kg (lbs)	see "Dimensions" table
Special cavity		see "Dimensions"
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE 18350-50
		·

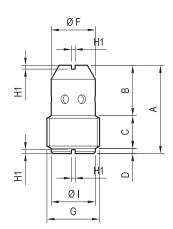


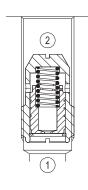




Dimensions







G	А	В	С	D	E	F	I	Н	H1	Weight kg (lbs)	Flow max. I/min. (gpm)
G 1/4	25.5 (1)	13.5 (0.53)	8.5 (0.34)	3 (0.12)	8 (0.32)	10 (0.39)	11 (0.43)	5 (0.2)	1.5 (0.6)	0.011 (0.024)	10 (3)
G 3/8	28 (1.1)	15 (0.59)	10.5 (0.41)	2 (0.08)	11 (0.43)	14 (0.55)	14.5 (0.57)	5 (0.2)	1.5 (0.6)	0.024 (0.053)	16 (4)
G 1/2	35 (1.38)	19.5 (0.77)	13 (0.52)	2 (0.08)	14 (0.55)	17.5 (0.69)	17.5 (0.69)	5 (0.2)	1.5 (0.6)	0.048 (0.106)	40 (11)

Ordering code

Note: available also as "Sleeve valve for line mounting"

See data sheets RE 18316-12 and RE 18316-13

0T.F1.01.00 Y Z *

Series 0/A to L

unchanged performances and dimensions

Insert type - Flow control, 2-way pressure compensated fixed setting

Port	sizes	
= 09	G 1/4	
= 02	G 3/8	
= 03	G 1/2	

		Regulated flow range I/min. (gpm)								
	= 01	= 02	= 03	= 04	= 05	= 06	= 07	= 08	= 09	= 10
for Y=09			3 (0.8) ± 20%							10 (2.6) ± 15%
1	4 (1.1) ± 15%								-	-
1	12 (3.2) ± 15%	1	1		1	1		-	-	-





Flow control, 2-way pressure compensated, fully adjustable Common cavity, Size 10

VRFB-10A 04.02.02 - X - 85 - Z RE 18321-16

Edition: 03.2016 Replaces: 09.2009

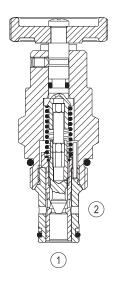


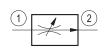
constant flow rate, regardless of system pressures, is tablished from 1 to 2 while a minimum pressure ferential of 14 bar (200 psi) exists between the two rts. Output flow can be varied from closed to the minal maximum rating for the valve. Flow from 2 to 1 is nited by the diameter of the selected control orifice and is t pressure compensated.

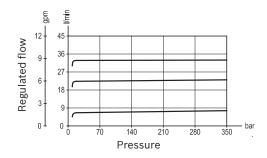
14 - 350 bar (200 - 5000 psi)
see "Regulated flow range" table
-30 to 100 °C (-22 to 212 °F)
41 - 47 Nm (30 - 35 ft-lbs)
0.27 kg (0.59 lbs)
CA-10A-2N (see data sheet 18325-70)
Please refer to section "Hydraulic integrated circuit" or consult factory
Code: RG10A2010520100
material no: R901111363
Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Nominal value max. 10µm (NAS 8) / ISO 4406 19/17/14
No restrictions
See data sheet 18350-50

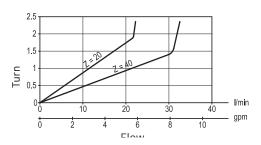
- 1) Standard version X=04 type
- 2) Only external seals for 10 valves









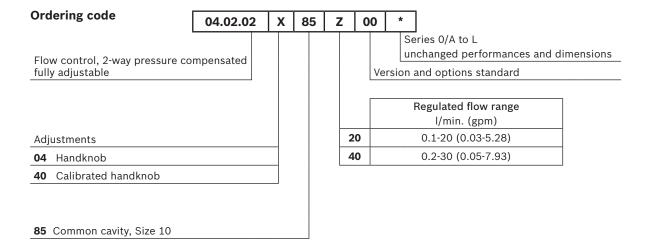






2 **VRFB-10A** | Flow control, 2-way pressure compensated

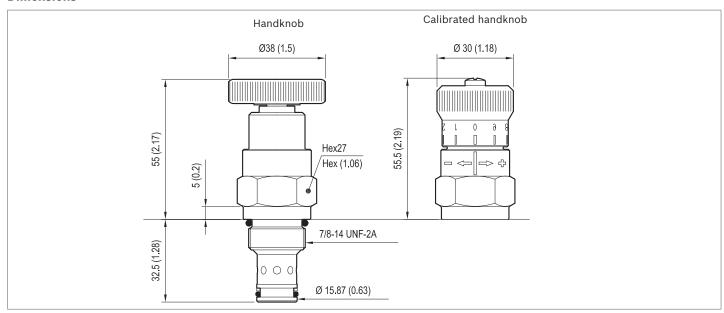
Dimensions [mm (inches)]



Preferred types

Туре	Material number
04020204852000A	R930055368
04020204854000A	R930055371

Туре	Material number
04020240852000A	R930055372
04020240854000A	R930055373







Flow control, 3-way pressure compensated, combination type fully adjustable Common cavity, Size 10

VRFD-10A 04.04.02 - X - 85 - Z

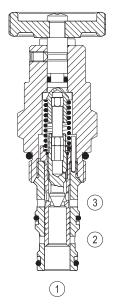
RE 18321-20 Edition: 03.2016

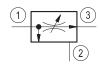
Replaces: 09.2009



Description

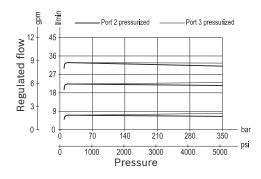
A constant flow rate, regardless of system pressures, is established from 1 to 3 while a minimum pressure differential of 14 bar (200 psi) exists between the two ports. Input flow supplied to 1 in excess of the regulated output at 3 is by-passed to 2. Output flow can be varied from closed to the nominal maximum rating for the valve. Flow from 3 to 1 is limited by the diameter of the selected control orifice and is not pressure compensated. Flow from 2 to 1 is not permitted.

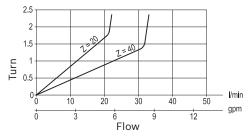




Technical data	
Pressure min max.	14 - 350 bar (200 - 5000 psi)
Max. inlet flow	60 l/min. (16 gpm)
Flow range	see "Regulated flow range" table
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	41 - 47 Nm (30 - 35 ft-lbs)
Weight ¹⁾	0.26 kg (0.57 lbs)
Cavity	CA-10A-3N (see data sheet 18325-70)
Lines bodies and standard	Please refer to section "Hydraulic
assemblies	integrated circuit" or consult factory
Seal kit ²⁾	Code: RG10A3010520100
	material no: R901111369
Fluids	Mineral-based or synthetics with
	lubricating properties
	at viscosities of 10 to 500 mm ² /s (cSt)
Recommended degree of	Nominal value max. 10µm (NAS 8) /
fluid contamination	ISO 4406 19/17/14
Installation	No restrictions
Other Technical Data	See data sheet 18350-50

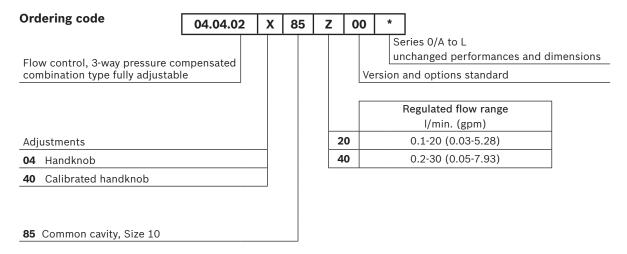
- 1) Standard version X=04 type
- 2) Only external seals for 10 valves







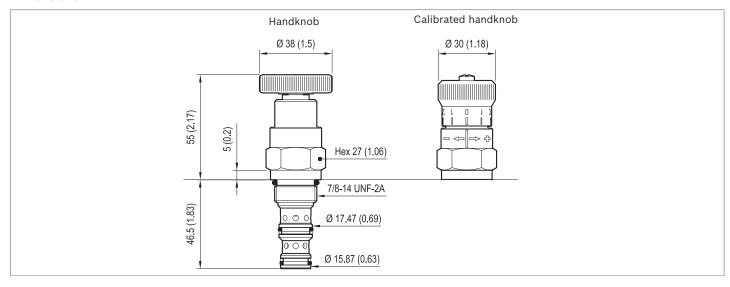




Preferred types

Туре	Material number
04040204852000A	R930055365
04040204854000A	R930055362
04040240852000A	R930055366
04040240854000A	R930055363

Туре	Material number







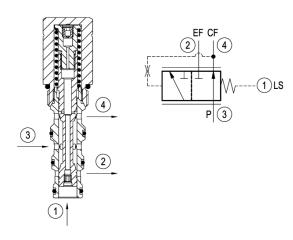
Logic element, pressure compensator with static load sense

Common cavity, Size 10

VRLA-10A-S

04.84.09.00 - 85 - Z

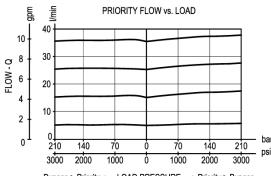




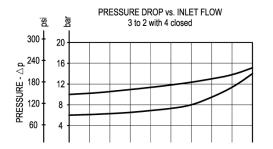
Description

The valve delivers priority flow, from 0 to max. available, on demand to port 4, while compensating for load changes downstream. In neutral, all input flow at 3 is given to the priority port 4. Pressure at 4 is applied to the spool against a spring force so that increasing pressure causes increasing by-pass of input flow to port 2. Load sense pressure at port 1, obtained between the downstream control and the load, assists the spring, and moves the spool back toward supplying priority flow. Comparison between priority outlet and LS pressure seeks a constant differential pressure over the control valve. As load and flow control change, the priority flow is increased or decreased to satisfy the demand establishing that differential.

Performance



 ${\tt Bypass > Priority} \longleftarrow {\tt LOAD\ PRESSURE} \longrightarrow {\tt Priority > Bypass}$



Technical data

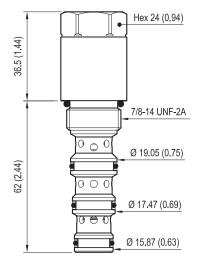
Max. operating press	sure bar (psi)	350 (5000)
Max. intel flow	I/min. (gpm)	45 (12)
Max. priority flow	l/min. (gpm)	30 (8) for Z=05 version 40 (11) for Z=10 version
Fluid temperature range °C (°F)		-30 to 100 (-22 to 212)
Installation torque	Nm (ft-lbs)	41-47 (30-35)
Weight	kg (lbs)	0.22 (0.49)
Cavity		CA-10A-4N see data sheet RE 18325-70
Seal kit (*)	code material no.	RG10A4010530100 R901111373
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Da	ta	See data sheet RE 18350-50

(*) Only external seals for 10 valves



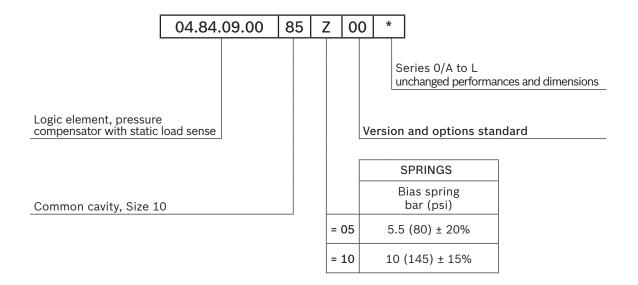


Dimensions



mm (Inches)

Ordering code







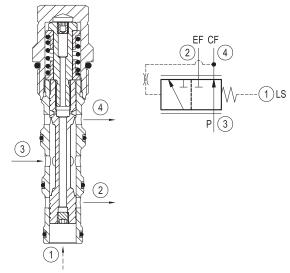
Logic element, pressure compensator with static load sense

Common cavity, Size 12

VRLA-12A-S

04.84.09.00 - 57 - Z

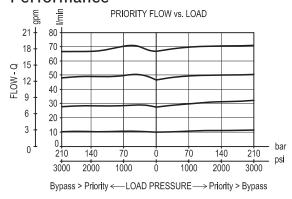


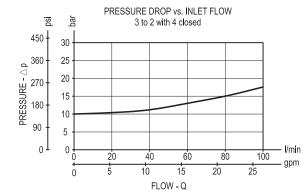


Description

The valve delivers priority flow, from 0 to max. available, on demand to port 4, while compensating for load changes downstream. In neutral, all input flow at 3 is given to the priority port 4. Pressure at 4 is applied to the spool against a spring force so that increasing pressure causes increasing by-pass of input flow to port 2. Load sense pressure at port 1, obtained between the downstream control and the load, assists the spring, and moves the spool back toward supplying priority flow. Comparison between priority outlet and LS pressure seeks a constant differential pressure over the control valve. As load and flow control change, the priority flow is increased or decreased to satisfy the demand establishing that differential.

Performance





Technical data

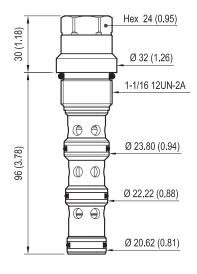
Max. operating press	sure bar (psi)	350 (5000)
Max. intel flow	l/min. (gpm)	100 (26)
Max. priority flow	l/min. (gpm)	80 (21)
Fluid temperature ra	nge °C (°F)	-30 to 100 (-22 to 212)
Installation torque	Nm (ft-lbs)	81-95 (60-70)
Weight	kg (lbs)	0.32 (0.71)
Cavity		CA-12A-4N
Cavity		see data sheet RE 18325-70
Seal kit (*)	code material no.	
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm²/s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Dat	ta	See data sheet RE 18350-50

(*) Only external seals for 10 valves



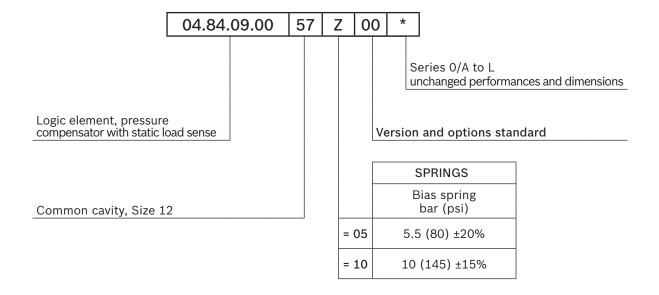


Dimensions



mm (Inches)

Ordering code







Solenoid operated valves pilot operated poppet type 2-way normally closed Common cavity, Size 08

VEI-16-08A-NC

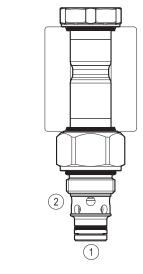
OD.15 - X - 18 - Y - Z

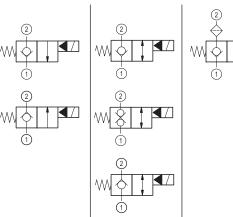
RE 18323-25

Edition: 04.2017 Replaces: 03.2017



PATENT PENDING





Technical data

New VEI-16 family incorporates a new solenoid concept providing excellent performance and enables cartridges to work in severe environment. Cartridges also incorporates advanced design of hydraulic parts providing excellent hydraulic performance.

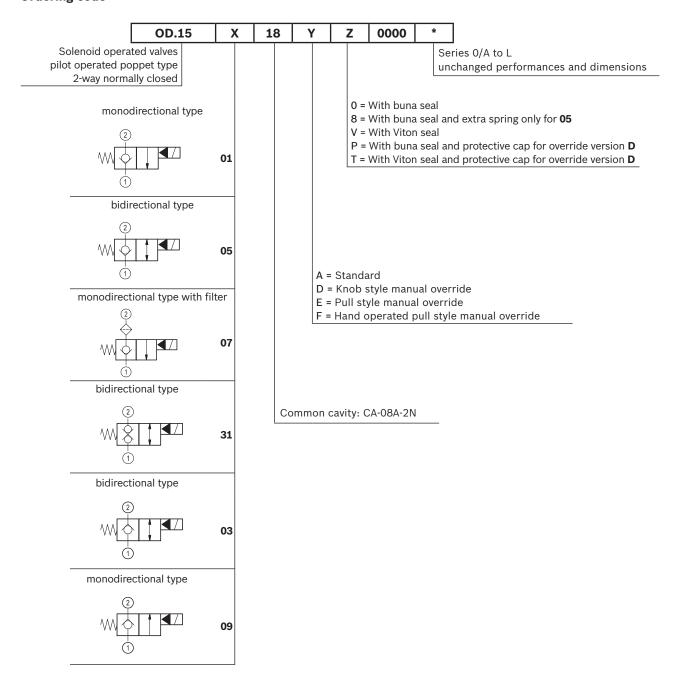
Technical data

General		
Weight		0.15 kg (0.33 lbs)
Installation orientation		Unrestricted
Ambient temperature ra	nge	-30 to 90 °C (-22 to 194 °F)
Hydraulic		
Max. operating pressure		350 bar (5000 psi)
Flow range		0.5 - 40 l/min (0.1 - 11 gpm)
Fatigue cycle life		2 million cycles at 350 bar 150000 cycles at 420 bar
Max. internal leakage:		5 drops/min. for X= 01,05,07 20 drops/min. for X= 31,03,09
Switching time		Opening ≤ 50 ms
		Closing ≤ 100 ms
Fluid temperature range		-20 to 80 °C (-4 to 176 °F)
Fluids: Mineral-based or viscosities of 20 to 380	•	th lubricating properties at
Installation torque		39 - 51 Nm (29 - 38 ft-lbs)
Recommended degree of fluid contamination		Nominal value max. 10 μm (NAS 8) ISO 4406 19/17/14
MTTFd		150 years see RE 18350-51
Cavity		CA-08A-2N see 18325-70
Seal kit for X=01,05,07	code material no.	RG08A2010520100 R901101437
Seal kit for X=31,03,09	code material no.	RG08A2010530100 R901101544
Seal kit coil	code material no.	RG01Z0010000100 R930058940
Other technical data		See data sheet 18350-50
Electrical		
Type of voltage		DC voltage
Coil type		D36
Supply voltage		See data sheet 18325-90
Voltage tolerance agains temperature	t ambient	See characteristic curve
Power consumption		20 W
Type of protection		See data sheet 18325-90
Note: Coils must be orde	ered separatel	y





Ordering code



Preferred types

Туре	Material number
OD150118A000000	R930058697
OD150118D000000	R930059941
OD150518A000000	R930058427
OD150518D000000	R930058344
OD150518DP00000	R930059757
OD150718A000000	R930058338
OD150718D000000	R930058336
OD150718DP00000	R930058529
OD150118E000000	R930060958
OD150518E000000	R930060966

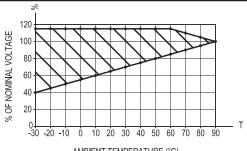
Туре	Material number	
OD150718E000000	R930060973	
OD153118A000000	R930058334	
OD153118D000000	R930058898	
OD153118E000000	R930065030	
OD150518A800000	R930063229	
OD150318A000000	R930062828	
OD150918A000000	R930064361	
OD153118DP00000	R930066685	
OD150518D800000	R930063959	





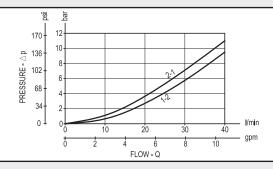
Characteristic curves

All Versions - Admissible supply voltage Vs. Ambient temperature at 100% duty cycle

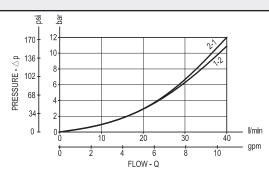


AMBIENT TEMPERATURE (°C)

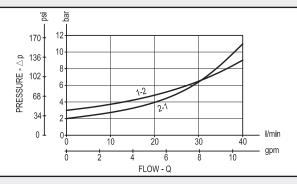
Versions 01, 05, 07



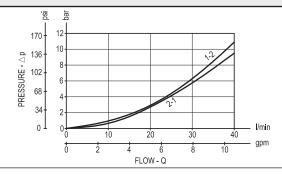
Version 31



Version 05 with extra spring



Versions 03, 09

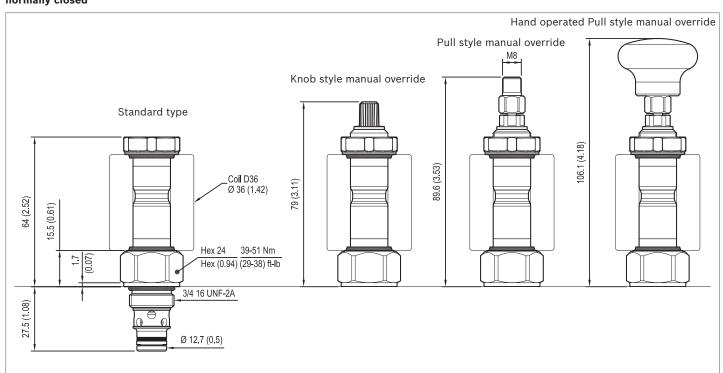


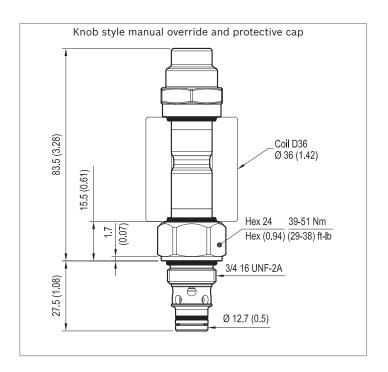




Dimensions

Solenoid operated valves, poppet 2-way normally closed









Solenoid operated valves pilot operated poppet type 2-way normally open Common cavity, Size 08 RE 18323-05

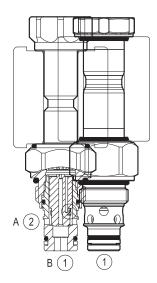
VEI-8I-06-NA

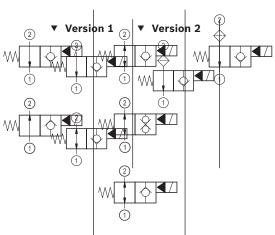
OD.15 - X - 18 - Y - S0

Edition: 01.2016 Replaces: 10.2013



PATENT PENDING





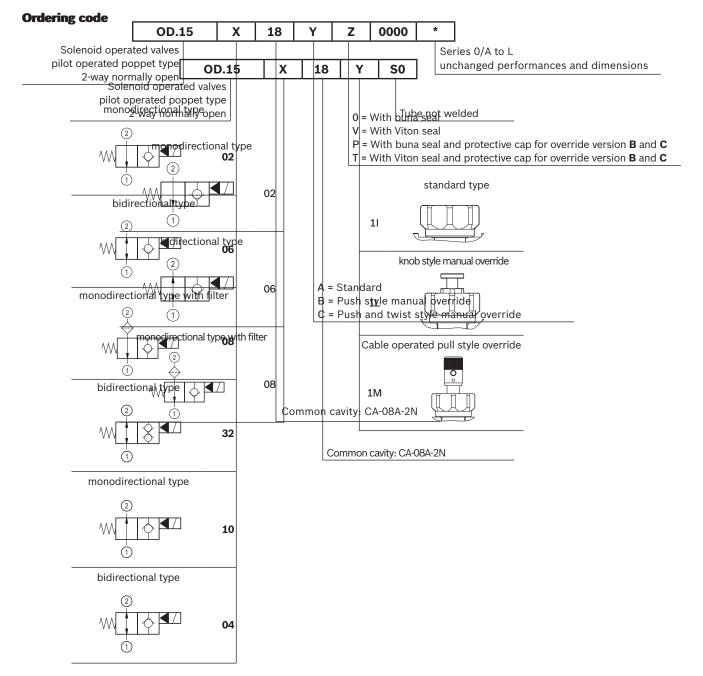
Technical data

Newh Wich I data mily incorporates a new solenoid concept excellent performance and enables cartridge advanced design of hydraulic parts providing exagilent hydraulic performance. Installation orientation Technical data Ambient temperature range Optional -30 to 60 °C (-22 to 140 °F) Hydraulic Weight Max operating pressure 9355 kg/95336/Bsi) Max. proof pressure on 426854; (6000 psi) Ambient temperature range -305to301/61678.to-18466 Hydraulic Fatigue cycle life 1 million cycles at 350 bar

Fatigue cycle life		1 million cycles at 350 par		
Max: Atteratine aregeure		350 dar _p (5000, psi)		
Flow tange		0.50-40.6 min ((4.10-116 gpm))		
Fatigue Gycle difeased or	trandilion rycles at 350 bar			
viscosities of 20 to 380	150000 cycles at 420 bar			
Maxailaternal leakage:		53grogs/min(2gr-X3892,166)08		
		20 drops/min. for X= 32,10,04 Nominal value max. 10 µm		
Switshingtion		<u> </u>		
MTTFd		Opening < 30 ms 150 years see RE 18350-51		
Eluid temperature range		-20, to 80.2 n see 18325-75		
Eluids Mineral based or synthetics with Jubricating properties at				
viscosities of 20 to 380 mm ² /s (cSt)		"Hydaulic integrated circuit"		
Installation torque		387-c514-s\m f28tor3/8 ft-lbs)		
Beapmmended degree	code	NRCG08Ab0al052048010 µm		
of fluid contamination	material no.	(N9618)) (S4374406 19/17/14		
MeTaTFkot coil	code	150 1/2 HIPNER 70 1 08350-51		
Cavity	material no.	CRP04A92N95√ee 18325-70		
Separitechnical, de tos	code	Rices Azto 1street 1168 50-50		
Seperitechnical, de tos	code	RECONATION 150 - 1		
Seberiteshnicol, do, to 8 Electrical	code material no.	Recesal 2019 (1983 50-50		
Statekiteshnicol, de 108 Electrical Spatkiteshnicol, de 108 Electrical	code material no.	R008AR010BE0110850-50 R008AR010530100 R901101544 8325-90 RG01700100001000 F901701544 8325-90		
Starkiteshnicol, de 108 Electrical Spatkiteshnikag2, 10,04 Coil type	code material no.	R00864010191140350-50 R0086401050530100 R901101544 S8-356 See 18325-90 R9010010000100 R930058940 ± 10%		
Starkitehnicol, de tos Electrical Spektif for Kag2, 10,04 Coil type Seal kit coil Supply voltage Nominal voltage Other technical data	code material no.	R008AR01018E0110850-50 R008AR010530100 R901101544 88-356 see 18325-90 R60170010000100 R930058940		
Stankit 46 haicol, de tos Electrical Spektif foot Kage, 10,04 Coil type Seal kit coil Supply voltage Nominal voltage Other technical data Power consumption Electrical	code material no.	RG08A2019E2010850-50 RG0170152418325-90 RG0170010000100 R93058940 ± 10% See data sheet 18350-50 20 W		
Starkitehnicol, de tos Electrical Spektof footkage, 10,04 Coil type Seal kit coil Supply voltage Nominal voltage Other technical data Power consumption Electrical Duty cycle coil	code material no.	R00804010E2010850-50 R00804010530100 R901101544 S8-356 See 18325-90 R901001000100 See data sneet 18325-90 110% See data sheet 18350-50 20 W See characteristic curves %		
Stankit 46 h x i cot de jos Electrical Spackit foot Kag2,10,04 Coil type Seal kit coil age Nominal voltage Other technical data Power consumption Electrical Duty cycle coil Type of voltage	code material no.	RG08A2015B20146850-50 RG01701524218325-90 RG0170010000100 See data sneet 18325-90 ± 10% See data sheet 18350-50 20 W See characteristic curves % DC voltage		
Stankit 46 haicol, de tos Electrical Spektif foot Kage, 10,04 Coil type Seal kit coil Supply voltage Nominal voltage Other technical data Power consumption Electrical Duty cycle coil Type of voltage Type of protection	code material no.	R008040101920140350-50 R00804010530100 R901101544 S8-356 See 18325-90 R90070010000100 See data sneet 18325-90 110% See data sheet 18350-50 20 W See characteristic curves %		
Stankit 46 h x i cot de jos Electrical Spokit foot kage ,10,04 Coil type Seal kit coil age Nominal voltage Other technical data Power consumption Electrical Duty cycle coil Type of voltage Type of protection Coil type Note: Coils must be orde	code material no. code material no.	R308A2019B20146850-50 R30110154218325-90 R30170010000100 See data sneet 18325-90 ± 10% See data sheet 18350-50 20 W See characteristic curves % DC voltage See data sheet 18325-90 D36		
Starkitehnicol,detos Electrical Spakion for Karga,10,04 Coil type Seal kit coil Supply voltage Nominal voltage Other technical data Power consumption Electrical Duty cycle coil Type of voltage Type of protection Coil type	code material no. code material no.	R00804010E2010850-50 R00804010530100 R901101544 S8-356 See 18325-90 R90058940 ± 10% See data sheet 18350-50 20 W See characteristic curves % DC voltage See data sheet 18325-90 D36		
Stankit 46 h x i cot de jos Electrical Spokit foot kage ,10,04 Coil type Seal kit coil age Nominal voltage Other technical data Power consumption Electrical Duty cycle coil Type of voltage Type of protection Coil type Note: Coils must be orde	code material no. code material no.	R308A2019B20146850-50 R30110154218325-90 R30170010000100 See data sneet 18325-90 ± 10% See data sheet 18350-50 20 W See characteristic curves % DC voltage See data sheet 18325-90 D36		
Starkitehnicol, de tos Electrical Spekite for Karge, 10,04 Coil type Seal kit coil Supply voltage Nominal voltage Other technical data Power consumption Electrical Duty cycle coil Type of voltage Type of protection Coil type Note: Coils must be orded Supply voltage	code material no. code material no.	R008040101920100350-50 R0080401019201000 R901101544 S8-356 See 18325-90 R90170010000100 L10% See data Sheet 18325-90 20 W See characteristic curves % DC voltage See data sheet 18325-90 D36 y See data sheet 18325-90		
Starkitehnicol, de tos Electrical Spektif for Kag2, 10,04 Coil type Seal kit coil Supply voltage Nominal voltage Other technical data Power consumption Electrical Duty cycle coil Type of voltage Type of protection Coil type Note: Coils must be orde Supply voltage Voltage tolerance agains	code material no. code material no.	R008040101920100350-50 R0080401019201000 R901101544 S8-356 See 18325-90 R90170010000100 L10% See data Sheet 18325-90 20 W See characteristic curves % DC voltage See data sheet 18325-90 D36 y See data sheet 18325-90		
Starkit 46 haicol, de tos Electrical Spack to final Kage, 10,04 Coil type Seal kit coil Supply voltage Nominal voltage Other technical data Power consumption Electrical Duty cycle coil Type of voltage Type of protection Coil type Note: Coils must be ord Supply voltage Voltage tolerance agains temperature	code material no. code material no.	RG08A2019E2010850-50 RG0170152418325-90 RG0170010000100 See data sheet 18325-90 R930058940 ± 10% See characteristic curves % DC voltage See data sheet 18325-90 D36 y See data sheet 18325-90 See characteristic curves % See characteristic curves % See characteristic curves % See data sheet 18325-90 D36 y See data sheet 18325-90 See characteristic curve		
Stankit 46 h x i cot , de jos Electrical Spektif foot Kag2, 10,04 Coil type Seal kit coil ge Nominal voltage Other technical data Power consumption Electrical Duty cycle coil Type of voltage Type of protection Coil type Note: Coils must be orde Supply voltage Voltage tolerance agains temperature Power consumption	code material no. code material no. ered separatel t ambient	RSCONDIGED 108350-50 See data sheet 18350-50 See data sheet 18325-90 See data sheet 18325-90 See characteristic curve 20 W See data sheet 18325-90 See characteristic curve		







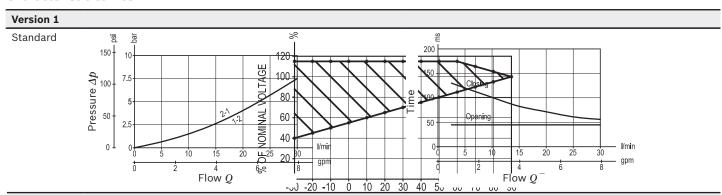
Preferred types

Туре	Material number
OD150218A000000	R930059442
Туре	Material number
OD150218BF00000	R99000103
OD150218¢b80000	R990080594
OD150218CM50000	R994084596
OD150618Ab90000	R994094436
OD150618Bb80000	R9900943 8
OD150618¢V60000	R994084135
OD150818A000000	R930058337
OD150818B000000	R930058340
OD150818C000000	R930060583

Туре	Material number
OD153218A000000	R930064101
Туре	Material number
OD159218¢\\$00000	R9900850 0 0
OD150418Ab80000	R994085348
OD1504188V50000	R99008142
OD150418C000000	R930066185
OD150618CP00000	R930060905
OD153218CP00000	R930065328
OD151018B000000	R930066186
OD151018C000000	R930066187
OD150618AV00000	R930060900



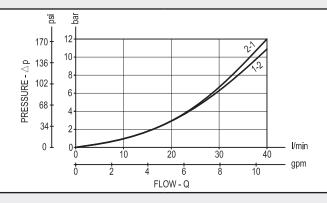




Version 2 Standard 02, 06, 08 bs bar Pressure Δp 150 12 10 100 10 ď 136 8 PRESSURE -102 6 ₀ I I/min l/min 30 4 20 30 gpm gpm ţ Flow Q 34 - 8 Flow Q 40 30 gpm

0

Version 32

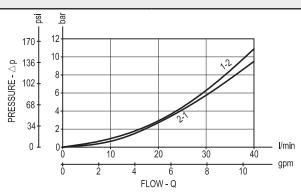


FLOW - Q

8

10

Version 04, 10



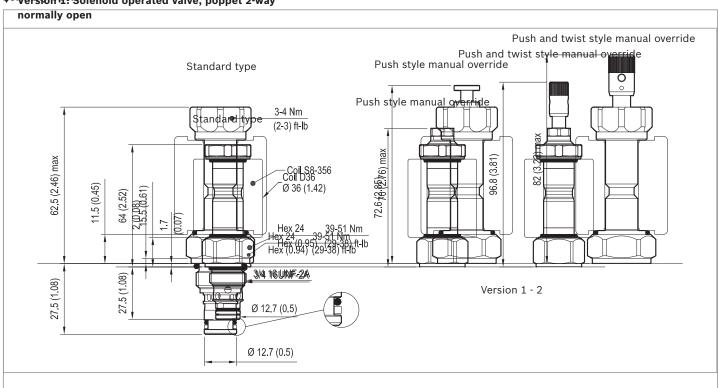




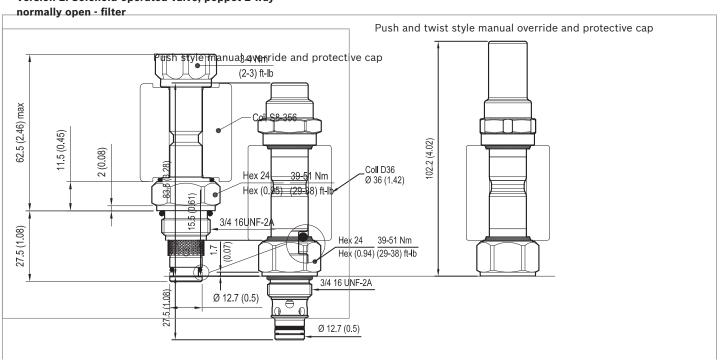
Dimensions

Solenoid operated valves, poppet 2-way

powers one Solenoid operated valve, poppet 2-way



▼ Version 2: Solenoid operated valve, poppet 2-way







Solenoid operated valves pilot operated poppet type 2-way normally closed Special cavity, 017-E

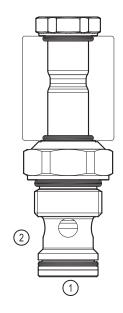
VEI-16-NC

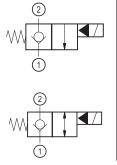
RE 18323-34

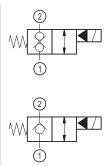
Edition: 10.2017 Replaces: 09.2017

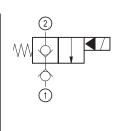


PATENT PENDING









Technical data

OD.15 - X - 17 - Y - Z

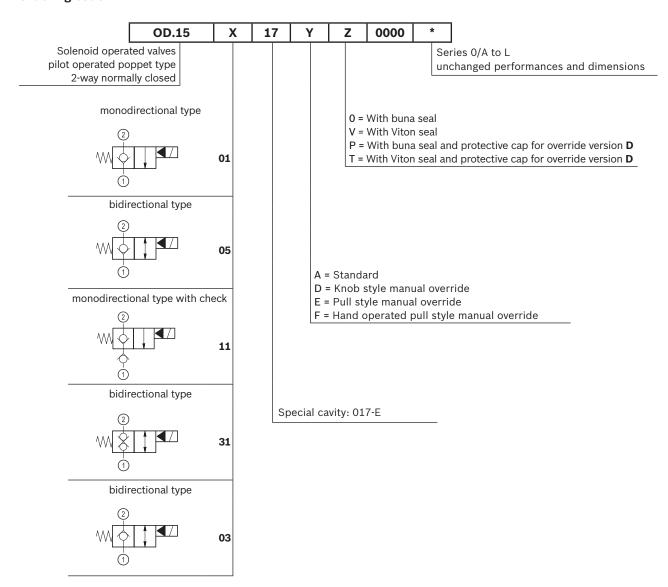
New VEI-16 family incorporates a new solenoid concept providing excellent performance and enables cartridges to work in severe environment. Cartridges also incorporates advanced design of hydraulic parts providing excellent hydraulic performance.

General			
Weight		0.25 kg (0.55 lbs)	
Installation orientation		Unrestricted	
Ambient temperature range		-30 to 90 °C (-22 to 194 °F)	
Hydraulic	'		
Max. operating pressure		350 bar (5000 psi)	
Flow range		2 - 70 l/min (0.53 - 18 gpm)	
Fatigue cycle life		2 million cycles at 350 bar	
Max. internal leakage:		20 drops/min.	
Installation torque		54 - 66 Nm (40 - 49 ft-lbs)	
Switching time		Opening ≤ 50 ms	
		Closing ≤ 100 ms	
Fluid temperature range		-20 to 80 °C (-4 to 176 °F)	
Fluids: Mineral-based or synthetics wit viscosities of 20 to 380 mm ² /s (cSt)		th lubricating properties at	
Recommended degree of fluid contamination		Nominal value max. 10 μm (NAS 8) ISO 4406 19/17/14	
MTTFD		150 years see RE 18350-51	
Special cavity		017-E see 18325-75	
Seal kit for X= 01,05,11	code material no.	RG17E201052010 R934003562	
Seal kit for X= 03,31	code material no.	RG17E201053010 R934003563	
Seal kit coil	code material no.	RG01Z0010000100 R930058940	
Other technical data		See data sheet 18350-50	
Electrical	·		
Type of voltage		DC voltage	
Coil type		D36	
Supply voltage		See data sheet 18325-90	
Voltage tolerance against ambient temperature		See characteristic curve	
Power consumption		20 W	
Type of protection		See data sheet 18325-90	
Note: Coils must be orde	ered separatel	у	





Ordering code



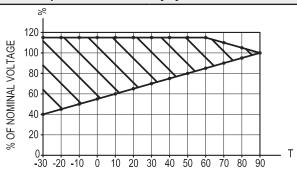
Туре	Material number	
OD150117A000000	R930062337	
OD150117D000000	R930065472	
OD150517A000000	R930062338	
OD150517D000000	R930064099	
OD151117A000000	R930064362	
OD150517DP00000	R930066439	
OD153117A000000	R930065028	
OD153117D000000	R930067162	

Туре	Material number
OD150317A000000	R930066965
OD150317D000000	R930066967



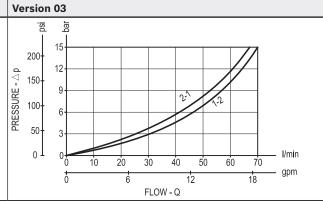


All Versions - Admissible supply voltage Vs. Ambient temperature at 100% duty cycle

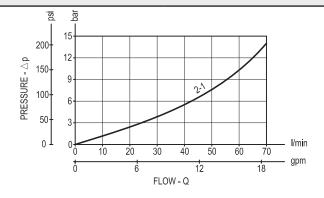


AMBIENT TEMPERATURE (°C)

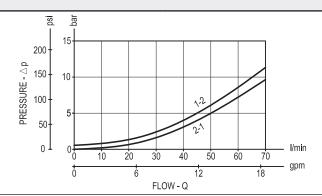
Versions 01, 05 bar Sd 15 200 12 PRESSURE - △p 150-9. 100-50 0 1 l/min 10 20 30 40 50 60 70 gpm t 12 18 FLOW - Q



Version 11



Version 31

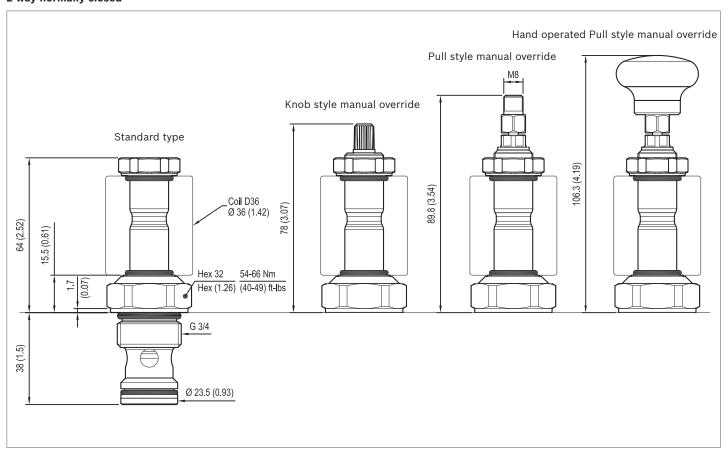






Dimensions

Solenoid operated valves pilot operated poppet type 2-way normally closed







Solenoid operated valves pilot operated poppet type 2-way normally open Special cavity, 017-E

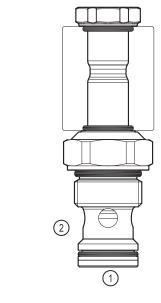
VEI-16-NA OD.15 - X - 17 - Y - Z - 00

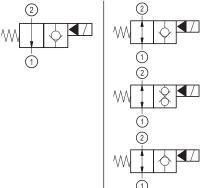
RE 18323-35

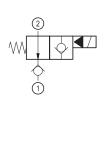
Edition: 12.2017 Replaces: 11.2017



PATENT PENDING







Technical data

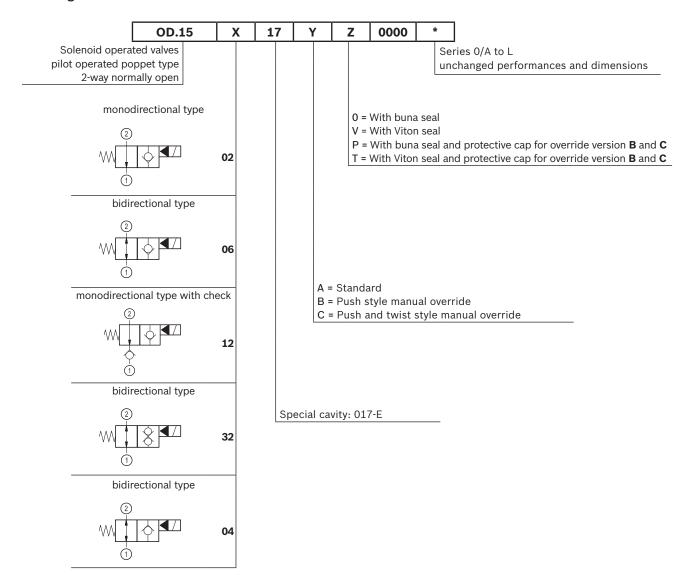
New VEI-16 family incorporates a new solenoid concept providing excellent performance and enables cartridges to work in severe environment. Cartridges also incorporates advanced design of hydraulic parts providing excellent hydraulic performance.

General			
Weight		0.25 kg (0.55 lbs)	
Installation orientation		Unrestricted	
Ambient temperature range		-30 to 90 °C (-22 to 194 °F)	
Hydraulic		· · · · · · · · · · · · · · · · · · ·	
Max. operating pressure		350 bar (5000 psi)	
Flow range		2 - 70 l/min (0.53 - 18 gpm)	
Fatigue cycle life		2 million cycles at 350 bar	
Max. internal leakage:		20 drops/min.	
Installation torque		54 - 66 Nm (40 - 49 ft-lbs)	
Switching time		Opening ≤ 50 ms	
		Closing ≤ 100 ms	
Fluid temperature range		-20 to 80 °C (-4 to 176 °F)	
Fluids: Mineral-based or synthetics with lubricating properties at			
viscosities of 20 to 380 r	nm²/s (cSt)		
Recommended degree		Nominal value max. 10 µm	
of fluid contamination		(NAS 8) ISO 4406 19/17/14	
MTTFd		150 years see RE 18350-51	
Special cavity		017-E see 18325-75	
Seal kit for X= 02,06,12	code	RG17E201052010	
Seal kit for X= 04,32	code	R934003562 RG17E201053010	
	material no.	R934003563	
Seal kit coil and standard	code	RG02Z0010000100	
cap		R930067869	
Seal kit coil and protective		RG03Z0010000100	
cap only for Y=B,C	material no.	R930067870	
Other technical data		See data sheet 18350-50	
Electrical			
Type of voltage		DC voltage	
Coil type	Coil type		
Supply voltage	Supply voltage		
Voltage tolerance against ambient		See characteristic curve	
temperature		20 W	
Power consumption	Power consumption		
Type of protection		See data sheet 18325-90	
Note: Coils must be ordered separately			





Ordering code



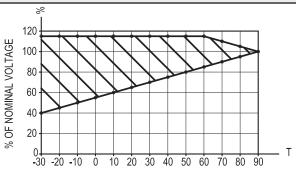
Туре	Material number
OD150217A000000	R930063870
OD150217C000000	R930065471
OD150617A000000	R930064265
OD150617B000000	R930064334
OD150617C000000	R930063423
OD151217A000000	R930063907
OD153217A000000	R930064102
OD153217B000000	R930067161

Туре	Material number
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OD153217C000000	R930067160
OD153217CP00000	R930067157
OD150417A000000	R930066966



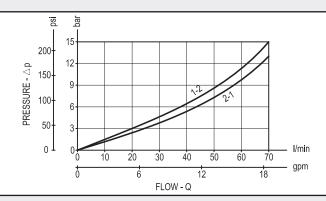


All Versions - Admissible supply voltage Vs. Ambient temperature at 100% duty cycle

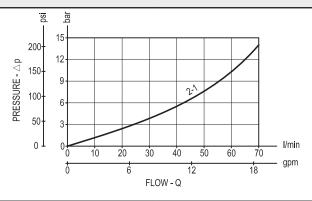


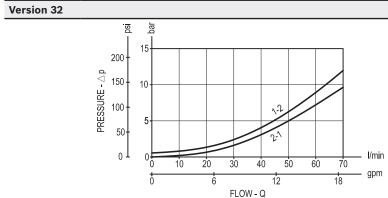
AMBIENT TEMPERATURE (°C)

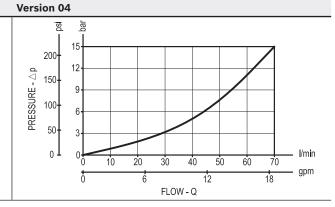
Versions 02, 06



Version 12





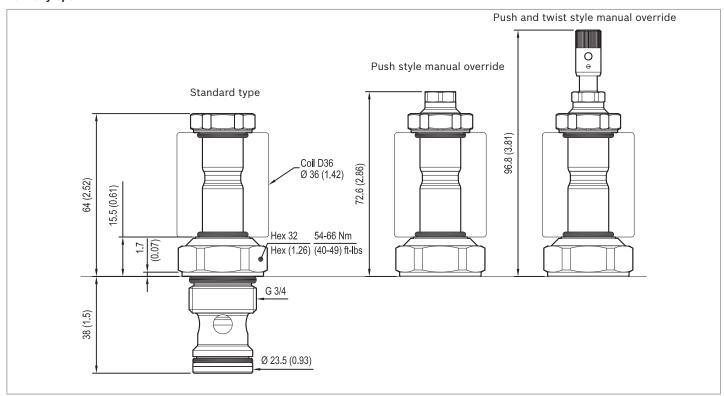


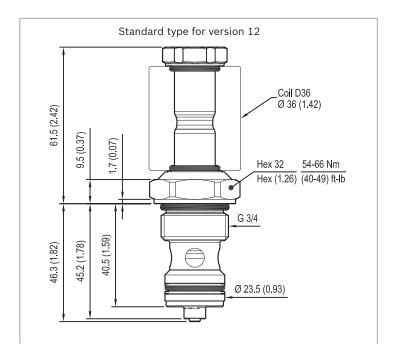




Dimensions

Solenoid operated valves, poppet 2-way normally open









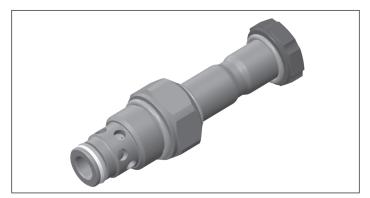
Solenoid operated valves pilot operated poppet type 2-way normally closed Common cavity, Size 10

VEI-16-10A-NC

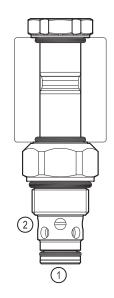
OD.15 - X - 36 - Y - Z

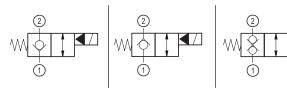
RE 18323-32

Edition: 11.2017 Replaces: 10.2017



PATENT PENDING





Technical data

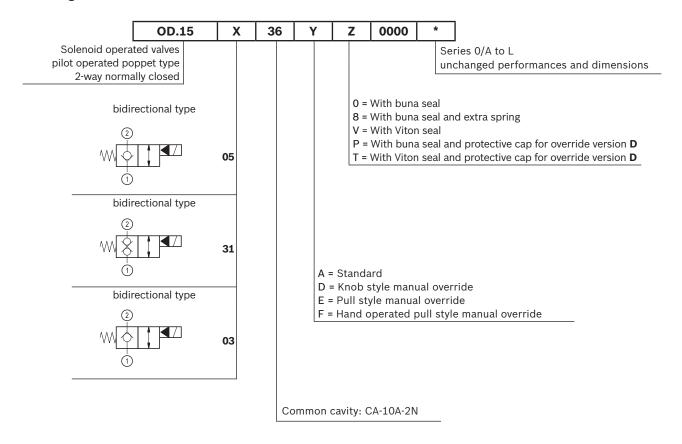
New VEI-16 family incorporates a new solenoid concept providing excellent performance and enables cartridges to work in severe environment. Cartridges also incorporates advanced design of hydraulic parts providing excellent hydraulic performance.

General		
Weight	0.25 kg (0.55 lbs)	
Installation orientation	Unrestricted	
Ambient temperature range	-30 to 90 °C (-22 to 194 °F)	
Hydraulic		
Max. operating pressure	350 bar (5000 psi)	
Flow range	2 - 70 l/min (0.53 - 18 gpm)	
Fatigue cycle life	2 million cycles at 350 bar	
Max. internal leakage:	20 drops/min.	
Switching time	Opening ≤ 50 ms	
	Closing ≤ 100 ms	
Fluid temperature range	-20 to 80 °C (-4 to 176 °F)	
Fluids: Mineral-based or synthetics v viscosities of 20 to 380 mm ² /s (cSt)	vith lubricating properties at	
Installation torque	44 - 56 Nm (33 - 41 ft-lbs)	
Recommended degree of fluid contamination	Nominal value max. 10 μm (NAS 8) ISO 4406 19/17/14	
MTTFd	150 years see RE 18350-51	
Cavity	CA-10A-2N see 18325-70	
Seal kit for X=05 code	RG10A2010520100	
Seal kit for X=03, 31 code	RG10A2010530100	
	. R901111366	
Seal kit coil and standard code	RG02Z0010000100	
cap material no Seal kit coil and protective code	R930067869 RG03Z0010000100	
	. R930067870	
Other technical data	See data sheet 18350-50	
Electrical		
Type of voltage	DC voltage	
Coil type	D36	
Supply voltage	See data sheet 18325-90	
Voltage tolerance against ambient temperature	See characteristic curve	
Power consumption	20 W	
Type of protection	See data sheet 18325-90	
Note: Coils must be ordered separate	ely	





Ordering code



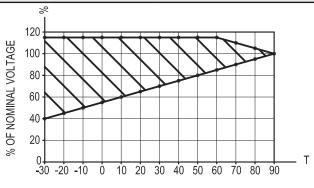
Туре	Material number
OD150536A000000	R930063002
OD150536D000000	R930062969
OD150536E000000	R930062947
OD150536F000000	R930062967
OD150536DP00000	R930062946
OD153136A000000	R930065511
OD153136D000000	R930066658
OD150336A000000	R930065691

Туре	Material number	
-		



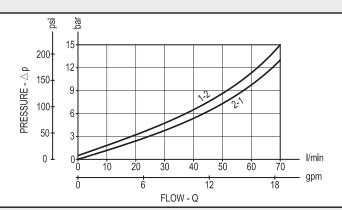


All Versions - Admissible supply voltage Vs. Ambient temperature at 100% duty cycle

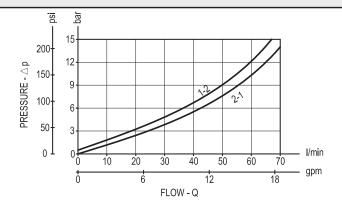


AMBIENT TEMPERATURE (°C)

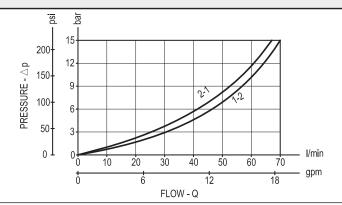
Version 05



Version 31



Version 03

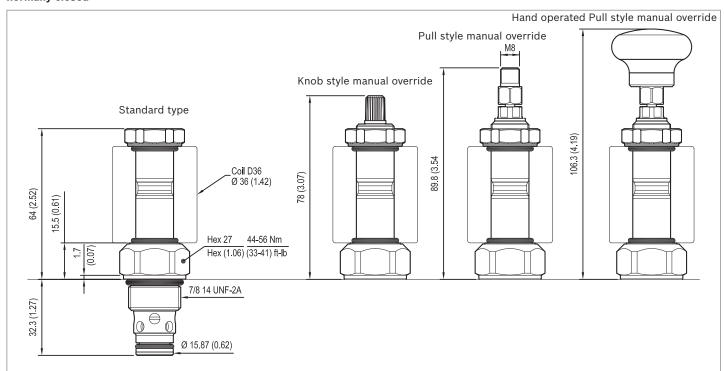


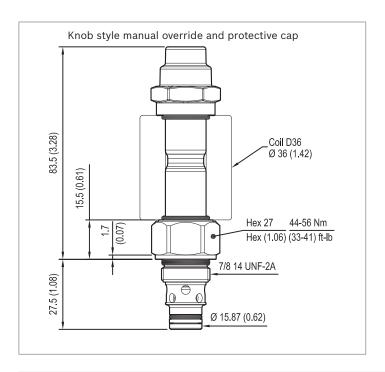




Dimensions

Solenoid operated valves, poppet 2-way normally closed









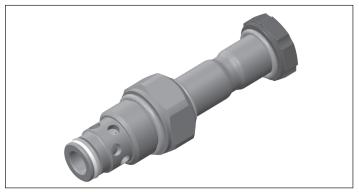
Solenoid operated valves pilot operated poppet type 2-way normally open Common cavity, Size 10

VEI-16-10A-NA

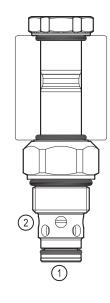
OD.15 - X - 36 - Y - Z - 00

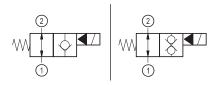
RE 18323-33 Edition: 09.2017

Replaces: 04.2017



PATENT PENDING





Technical data

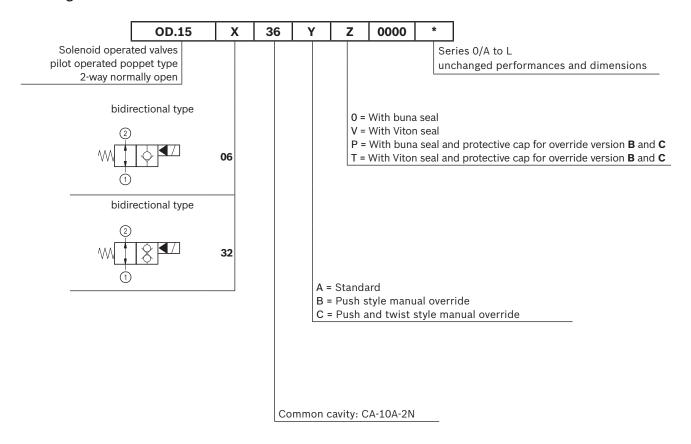
New VEI-16 family incorporates a new solenoid concept providing excellent performance and enables cartridges to work in severe environment. Cartridges also incorporates advanced design of hydraulic parts providing excellent hydraulic performance.

General			
Weight		0.16 kg (0.35 lbs)	
Installation orientation		Unrestricted	
Ambient temperature ra	nge	-30 to 90 °C (-22 to 194 °F)	
Hydraulic			
Max. operating pressure		350 bar (5000 psi)	
Flow range		2 - 70 l/min (0.53 - 18 gpm)	
Fatigue cycle life		2 million cycles at 350 bar	
Max. internal leakage:		20 drops/min.	
Switching time		Opening ≤ 50 ms	
		Closing ≤ 100 ms	
Fluid temperature range		-20 to 80 °C (-4 to 176 °F)	
Fluids: Mineral-based or synthetics wir viscosities of 20 to 380 mm ² /s (cSt)		th lubricating properties at	
Installation torque		44 - 56 Nm (33 - 41 ft-lbs)	
Recommended degree of fluid contamination		Nominal value max. 10 μm (NAS 8) ISO 4406 19/17/14	
MTTFd		150 years see RE 18350-51	
Cavity		CA-10A-2N see 18325-70	
Seal kit for X=06	code	RG10A2010520100	
	material no.	R901111363	
Seal kit for X=32	code	RG10A2010530100	
	material no.	R901111366	
Seal kit coil	code material no.	RG01Z0010000100	
		R930058940	
Other technical data		See data sheet 18350-50	
Electrical		DO II	
Type of voltage		DC voltage	
Coil type		D36	
Supply voltage		See data sheet 18325-90	
Voltage tolerance against ambient temperature		See characteristic curve	
Power consumption		20 W	
Type of protection		See data sheet 18325-90	
Note: Coils must be ordered separatel		у	
		·	





Ordering code

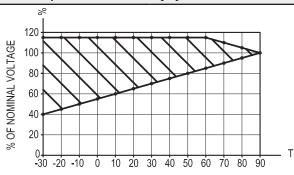


уре	Material number	Туре	Material number
OD150636A000000	R930061730		
OD150636B000000	R930062932		
OD150636C000000	R930062933		
OD150636BP00000	R930062936		
OD150636CP00000	R930062937		



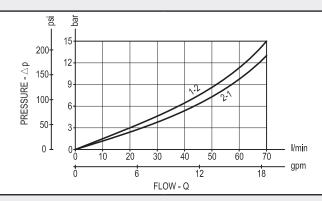


All Versions - Admissible supply voltage Vs. Ambient temperature at 100% duty cycle

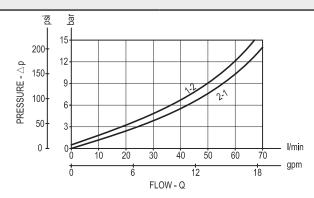


AMBIENT TEMPERATURE (°C)

Version 06



Version 32



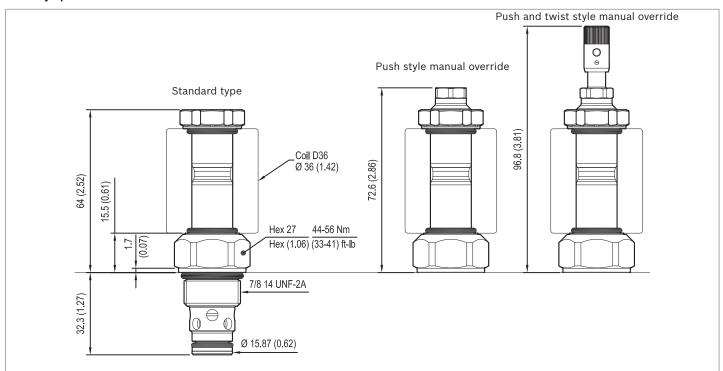


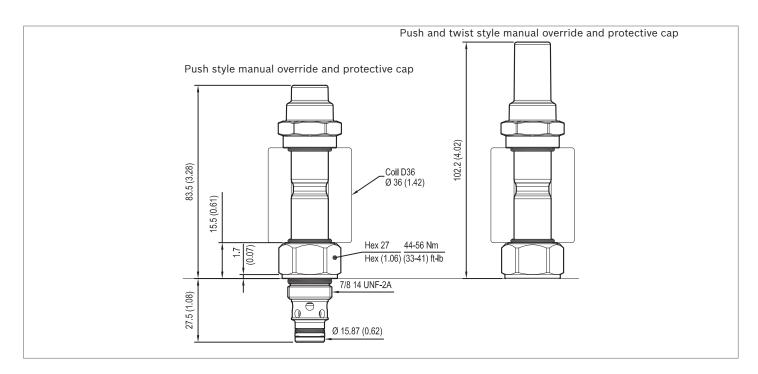


May 2025 edition

Dimensions

Solenoid operated valves, poppet 2-way normally open









Solenoid operated valves pilot operated poppet type 2-way normally closed Special cavity, 021-E

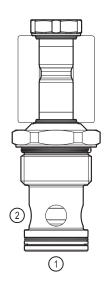
RE 18323-37

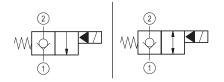
Edition: 12.2017

VEI-16-021-NC



PATENT PENDING





Technical data

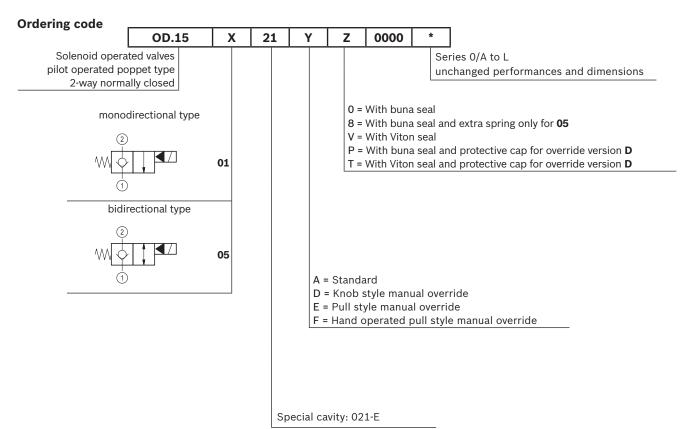
OD.15-X-21-Y-Z

New VEI-16 family incorporates a new solenoid concept providing excellent performance and enables cartridges to work in severe environment. Cartridges also incorporates advanced design of hydraulic parts providing excellent hydraulic performance.

General			
Weight		0.35 kg (0.77 lbs)	
Installation orientation		Unrestricted	
Ambient temperature range		-30 to 90 °C (-22 to 194 °F)	
Hydraulic			
Max. operating pressure		350 bar (5000 psi)	
Flow range		5 - 150 l/min (1 - 40 gpm)	
Fatigue cycle life		1 million cycles at 350 bar	
Max. internal leakage:		20 drops/min. for X= 01,05	
Switching time		Closing ≤ 100 ms	
		Opening ≤ 50 ms	
Fluid temperature range		-20 to 80 °C (-4 to 176 °F)	
Fluids: Mineral-based or viscosities of 20 to 380 n	-	th lubricating properties at	
Installation torque		130 - 150 Nm (96 - 111 ft-lbs)	
Recommended degree of fluid contamination		Nominal value max. 10 μm (NAS 8) ISO 4406 19/17/14	
MTTFd		150 years see RE 18350-51	
Special cavity		021-E see 18325-75	
Seal kit for X=01,05	code	RG21E201052010	
Seal kit coil and standard	material no. code	R934003566 RG02Z0010000100	
cap	material no.		
Seal kit coil and protective cap only for Y=D		RG03Z0010000100	
Other technical data	material no.	R930067870 See data sheet 18350-50	
Electrical			
Type of voltage		DC voltage	
Coil type		D36	
Supply voltage		See data sheet 18325-90	
Voltage tolerance against ambient temperature		See characteristic curve	
Power consumption		20 W	
Type of protection		See data sheet 18325-90	
Note: Coils must be ordered separately			





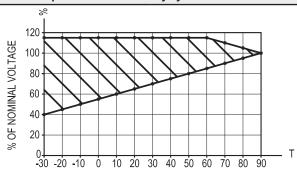


Туре	Material number	Туре	Material numb
OD150121A000000	R930064100		,
OD150521A000000	R930064472		
OD150521A800000	R930065846		
OD150521D000000	R930066968		



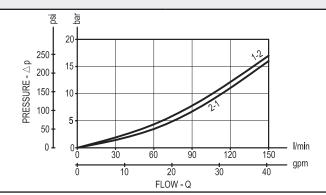


All Versions - Admissible supply voltage Vs. Ambient temperature at 100% duty cycle



AMBIENT TEMPERATURE (°C)

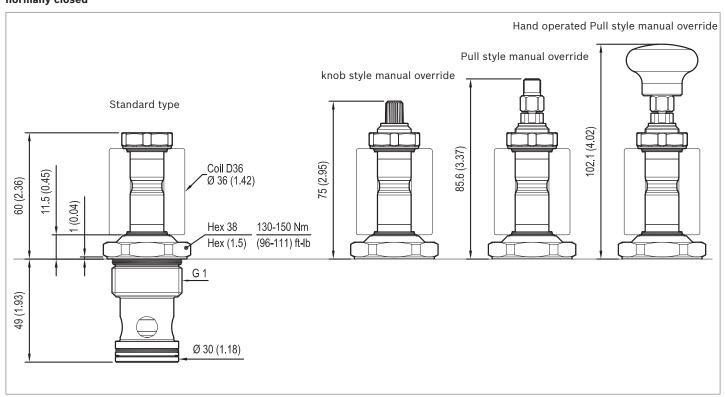
Versions 01, 05

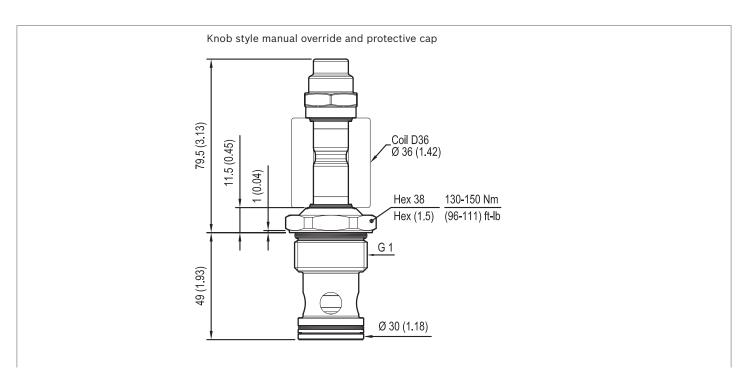






DimensionsSolenoid operated valves, poppet 2-way normally closed







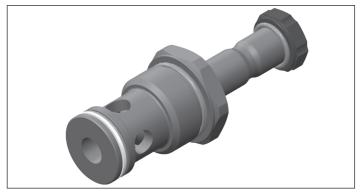


Solenoid operated valves pilot operated poppet type 2-way normally open Special cavity, 021-E

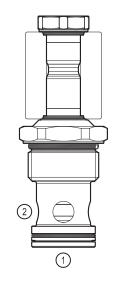
RE 18323-38

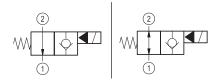
Edition: 12.2017

VEI-16-021-NA OD.15 - X - 21 - Y - Z- 00



PATENT PENDING





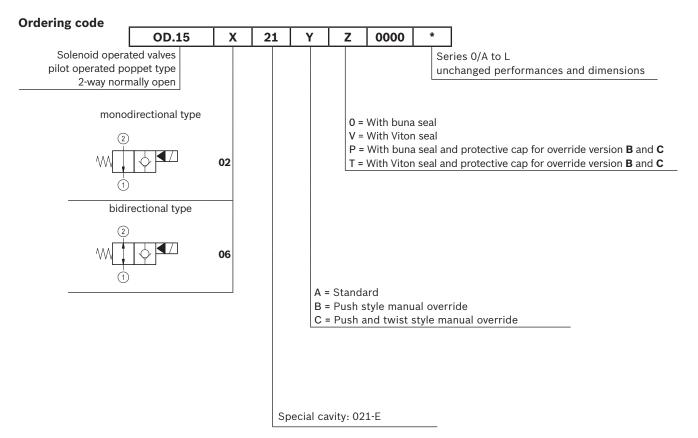
Technical data

New VEI-16 family incorporates a new solenoid concept providing excellent performance and enables cartridges to work in severe environment. Cartridges also incorporates advanced design of hydraulic parts providing excellent hydraulic performance.

General		
Weight		0.35 kg (0.77 lbs)
Installation orientation		Unrestricted
Ambient temperature rar	nge	-30 to 90 °C (-22 to 194 °F)
Hydraulic		
Max. operating pressure		350 bar (5000 psi)
Flow range		5 - 150 l/min (1 - 40 gpm)
Fatigue cycle life		1 million cycles at 350 bar
Max. internal leakage:		20 drops/min. for X= 02,06
Switching time		Closing ≤ 100 ms
		Opening ≤ 50 ms
Fluid temperature range		-20 to 80 °C (-4 to 176 °F)
Fluids: Mineral-based or viscosities of 20 to 380 r	•	th lubricating properties at
Installation torque		130 - 150 Nm (96 - 111 ft-lbs)
Recommended degree of fluid contamination		Nominal value max. 10 μm (NAS 8) ISO 4406 19/17/14
MTTFd		150 years see RE 18350-51
Special cavity		021-E see 18325-75
Seal kit for X=02,06	code	RG21E201052010
Seal kit coil and standard	material no.	R934003566 RG02Z0010000100
cap	material no.	R930067869
Seal kit coil and protective	code	RG03Z0010000100
cap only for Y=B,C	material no.	R930067870
Other technical data		See data sheet 18350-50
Electrical		
Type of voltage		DC voltage
Coil type		D36
Supply voltage		See data sheet 18325-90
Voltage tolerance against temperature	t ambient	See characteristic curve
Power consumption		20 W
Type of protection		See data sheet 18325-90
Note: Coils must be orde	red separatel	у





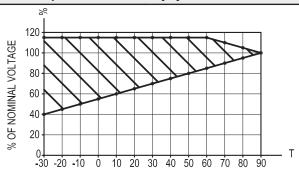


Туре	Material number
OD150221A000000	R930063874
OD150621A000000	R930066964
OD150621C000000	R930066969
-	



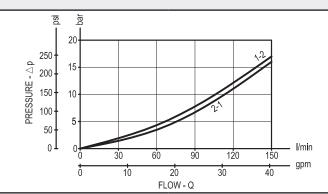


All Versions - Admissible supply voltage Vs. Ambient temperature at 100% duty cycle



AMBIENT TEMPERATURE (°C)

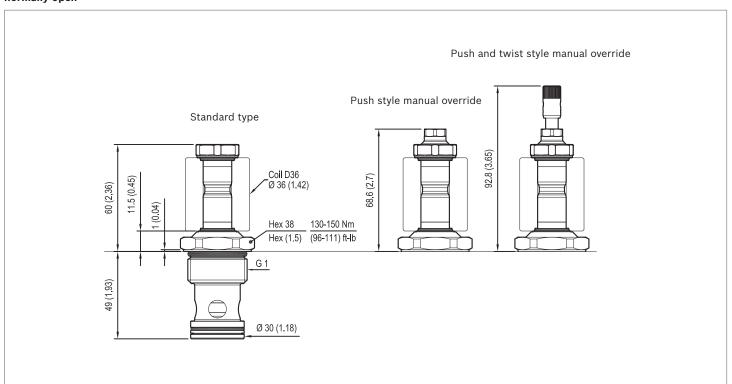
Versions 02, 06

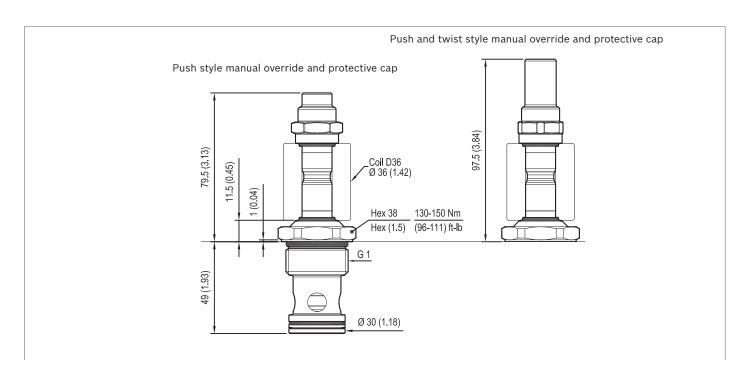






DimensionsSolenoid operated valves, poppet 2-way normally open









Solenoid operated valves pilot operated poppet type 2-way normally open Common cavity, Size 12

VEI-16-NA

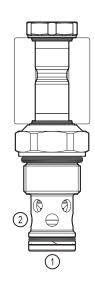
OD.15-X-89-Y-Z-00

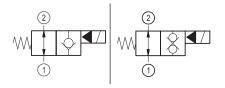
RE 18323-40 Edition: 06.2018

Replaces: 05.2018



PATENT PENDING





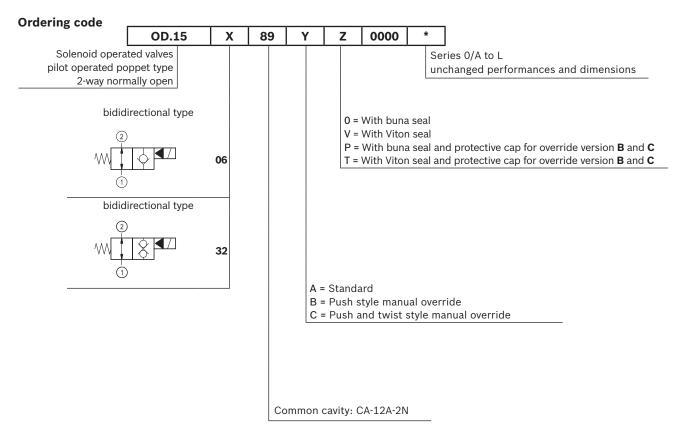
Technical data

New VEI-16 family incorporates a new solenoid concept providing excellent performance and enables cartridges to work in severe environment. Cartridges also incorporates advanced design of hydraulic parts providing excellent hydraulic performance.

General		
Weight		0.25 kg (0.55 lbs)
Installation orientation		Unrestricted
Ambient temperature rar	nge	-30 to 90 °C (-22 to 194 °F)
Hydraulic		
Max. operating pressure		350 bar (5000 psi)
Flow range		5 - 150 l/min (1 - 40 gpm)
Max. internal leakage:		20 drops/min. for X= 02,06
Switching time		Closing ≤ 100 ms
		Opening ≤ 50 ms
Fluid temperature range		-20 to 80 °C (-4 to 176 °F)
Fluids: Mineral-based or viscosities of 20 to 380 n	•	th lubricating properties at
Installation torque		54 - 66 Nm (40 - 49 ft-lbs)
Recommended degree of fluid contamination		Nominal value max. 10 μm (NAS 8) ISO 4406 19/17/14
MTTFd		150 years see RE 18350-51
Common cavity		CA-12A-2N see 18325-70
Seal kit for X=06	code	RG12A2010520100
0 11:16 7/ 00	material no.	
Seal kit for X=32	code	RG12A2010530100 R930003374
Seal kit coil and standard	material no.	RG02Z0010000100
cap	material no.	R930067869
Seal kit coil and protective		RG03Z0010000100
cap only for Y=B	material no.	R930067870
Seal kit coil and protective	code	RG04Z0010000100
cap only for Y=C	material no.	R930069171
Other technical data		See data sheet 18350-50
Electrical		
Type of voltage		DC voltage
Coil type		D36
Supply voltage		See data sheet 18325-90
Voltage tolerance against temperature	ambient	See characteristic curve
Power consumption		20 W
Type of protection		See data sheet 18325-90
Note: Coils must be orde	red separatel	V





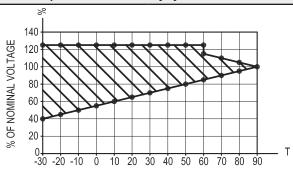


Туре	Material number	Туре	Material number
OD150689A000000	R930063151		
OD150689B000000	R930068531		
OD150689C000000	R930069635		
OD153289A000000	R930066971		
OD153289C000000	R930069395		



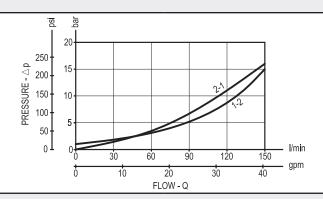


All Versions - Admissible supply voltage Vs. Ambient temperature at 100% duty cycle

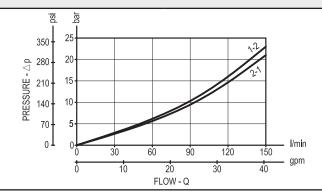


AMBIENT TEMPERATURE (°C)

Versions 06



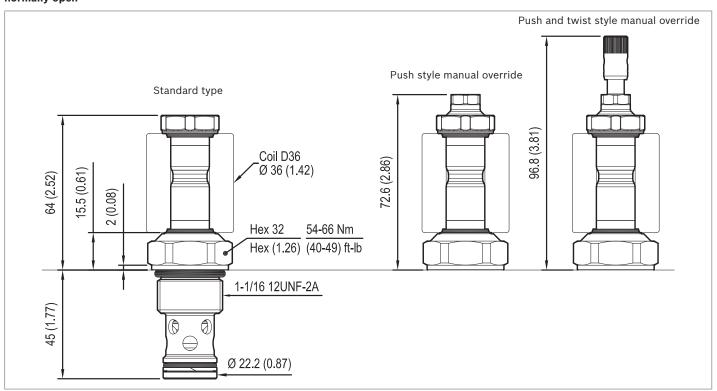
Versions 32

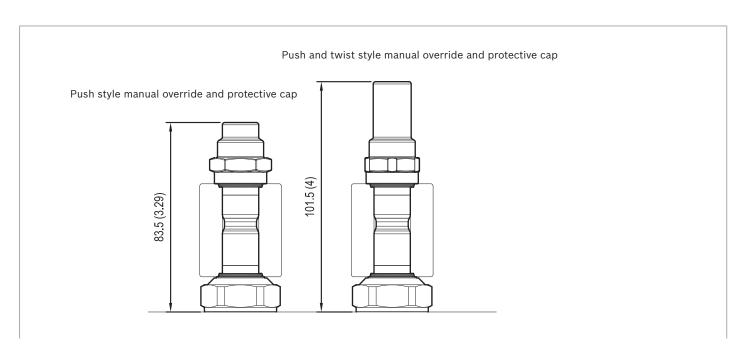






DimensionsSolenoid operated valves, poppet 2-way normally open









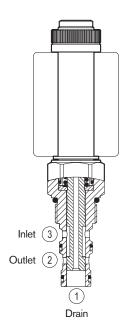
Proportional valves not compensated flow regulator

Common cavity, Size 10

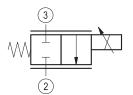
VEP-5A-2Q-09

OD.92 - X - 77 - Y - Z

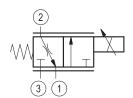








Version 05



Version 03: port 1 not used.

General

Weight	kg (lbs)	0.32 (0.71)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	210 (3000)
Flow range	l/min.(gpm)	see flow diagram
Max. internal leakage (*) cm ³ /min.	(cu.in./min.)	100 (6)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	44-56 (33-41)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-10A-3N see RE 18325-70
Line bodies		See data sheet RE 18325-85
Seal kit	code material no.	RG10A3010520100 R901111369
Seal kit coil	code material no.	RG19A1PNBR7000 R934003569
Other technical data		See data sheet RE 18325-90

^(*) Measure at 210 bar (3000 psi). Oil at 46 cSt.

Electrical

Type of voltage	DC voltage
Coil type	S5
Supply voltage	12 DC
Nominal voltage	± 10%
Power consumption W	23
Duty cycle %	100
Type of protection	See data sheet RE 18325-90

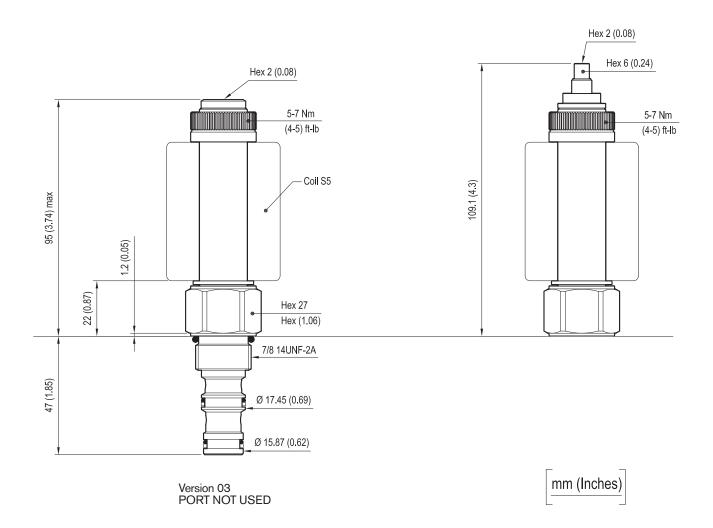
Note: Coils must be ordered sepately.





Dimensions

Proportional valves not compensated flow regulator

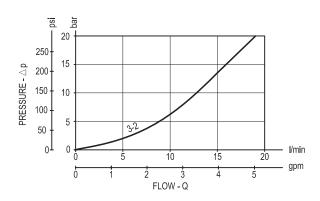


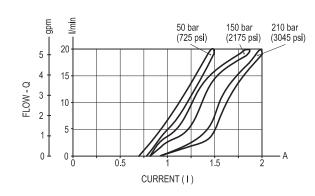




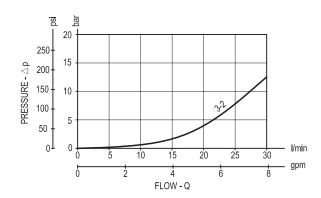
Performance graphs

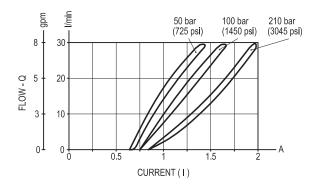
Z= 01



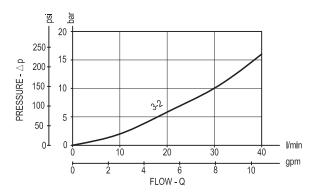


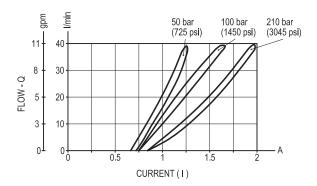
Z = 02





Z= 03





PMW Frequency: 120-150 Hz

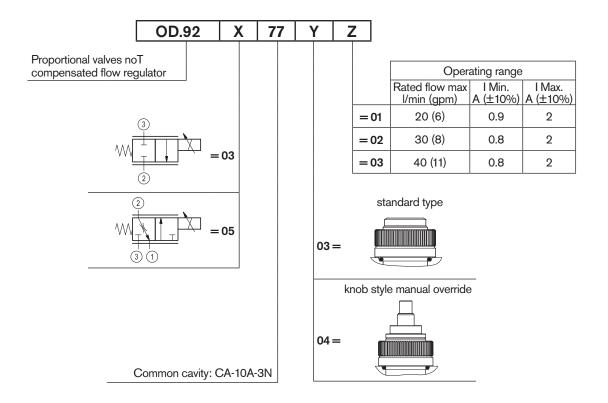
Hysteresis: <5%

Note: It is recommended to use coil 12 DC.





Ordering code







Proportional valves poppet type not compensated flow regulator Common cavity, Size 12

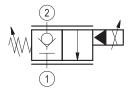
VEPN-12A

RE 18323-69

Edition: 01.2016 Replaces: 05.2015



Version 06



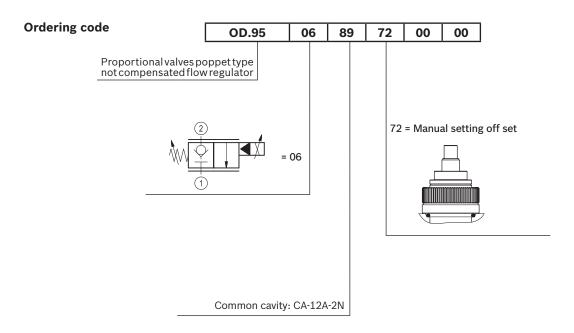
Technical data

OD.95.06.89.72.00

General		
Weight		0.29 kg (0.64 lbs)
Installation orientation		Optional
Ambient temperature ra	nge	-30 to 90 °C (-22 to 194 °F)
Hydraulic		
Max. operating pressure		210 bar (3000 psi)
Flow range		5 - 60 l/min. (1 - 16 gpm)
Max. internal leakage		10 cm ³ /min. (0.6 cu.in/min.)
Fluid temperature range		-20 to 80 °C (-4 to 176 °F)
Fluids: Mineral-based or viscosities of 15 to 380 i	•	n lubricating properties at
Installation torque		51 - 55 Nm (38 - 41 ft-lbs)
Recommended degree of contamination	f fluid	Nominal value max. 10 μm (NAS 8) ISO 4406 19/17/14
Cavity		CA-12A-2N see 18325-70
Lines bodies and standa	rd assemblies	Please refer to section "Hydaulic integrated circuit" or consult factory
Seal kit	code	RG12A2010520100
	material no.	R901111377
Seal kit coil	code material no.	RG16A1PMVQ0010 R934003962
Other technical data		See data sheet 18350-50
Electrical		
Type of voltage		12 DC voltage
Coil type		R7
Supply voltage		12 DC
Nominal voltage		± 10%
Power consumption		18 W
Duty cycle coil		100
Type of protection		See data sheet 18325-90
Note: Coils must be orde	ered separately	





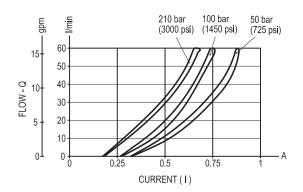


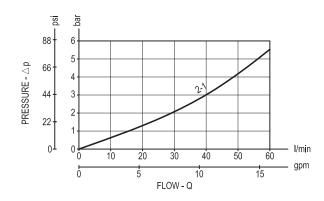
Туре	Material number
OD950689720000	R934001162





Characteristic curves





	I	P bar (psi)	Coils	
I min:	I min: 0.2 210 (3000)		12 DC	
I max:	0.65	210 (3000)	12 DC	
PMW Frequency: 120-150 Hz				
Hysteresis: < 5%				

Note: It is recommended to use coil 12 DC.



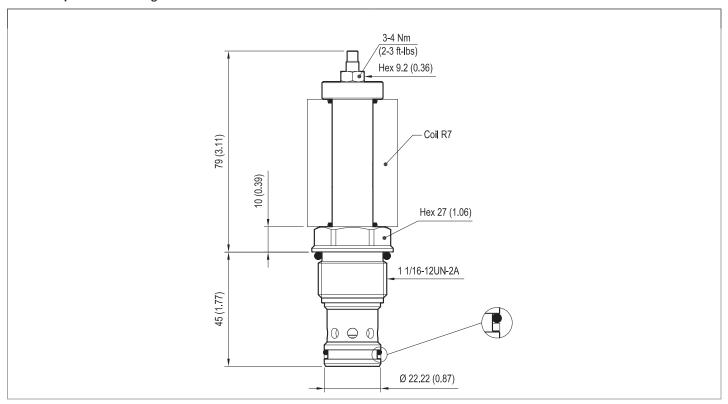


4 **VEPN-12A** | Proportional valves poppet type not compensated flow regulator

Dimensions [mm (inches)]

Dimensions

▼ Proportional valves poppet type not compensated flow regulator







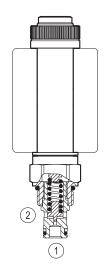
Proportional valves direct acting relief

Common cavity, Size 08

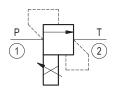
VEP-5B-2S-D

OD.94.01.18 - Y - Z









General

Weight	kg (lbs)	0.23 (0.51)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

rryaraano		
Max. operating pressure	bar (psi)	350 (5000)
Flow range	l/min.(gpm)	See flow diagram
Max. internal leakage (*) cm ³ /min.	(cu.in./min.)	5 (0.3)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	39-51 (29-38)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-70
Line bodies		See data sheet RE 18325-85
Seal kit	code material no.	RG08A2010520100 R901101437
Seal kit coil		RG19A1PNBR7000 R934003569
Other technical data		See data sheet RE 18325-90

(*) at 20% of pressure setting. Oil at 46 cSt

Electrical

DC voltage
S5
12 DC
± 10%
23
100
See data sheet RE 18325-90

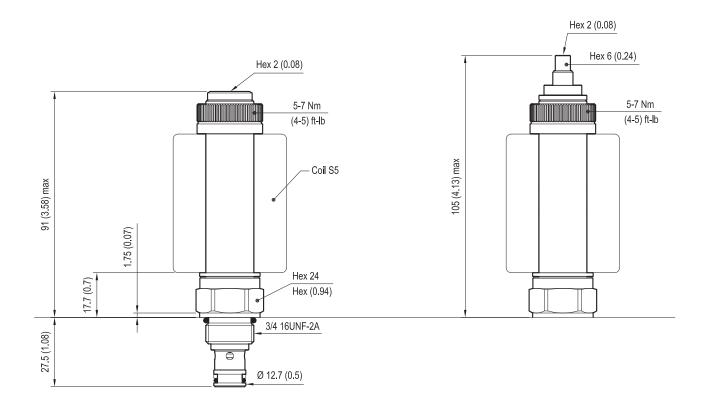
Note: Coils must be ordered separately.





Dimensions

Proportional valves direct acting relief

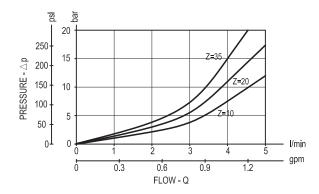


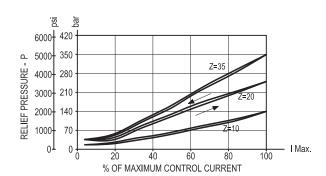
mm (Inches)





Performance graphs





		I	P bar (psi)	Coils	
Z=10	I min:	0.2 A	15 (218)	12 DC	
Z=10	I max:	1.5 A	140 (2030)	12 DC	
Z=20	I min:	0.15 A	30 (435)	12 DC	
Z=20	I max:	1.7 A	250 (3625)	12 DC	
Z=30	I min:	0.2 A	30 (435)	12 DC	
Z=30	I max:	1.7 A	350 (5075)	12 DC	
PMW Frequency: 120-150 Hz					
Hysteresis: <5%					

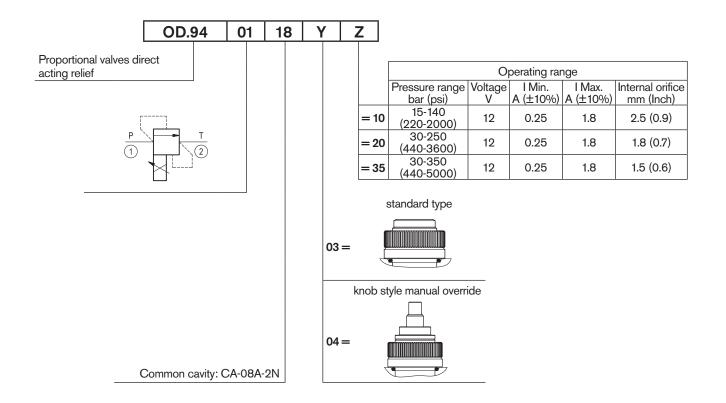
Note (1): It is recommended to use coil 12 DC.

Note (2): It is recommended to bleed air carefully before operation.





Ordering code







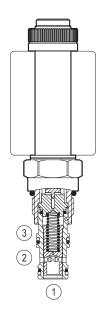
Proportional valves pilot operated pressure reducing

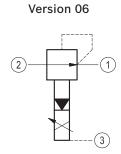
Common cavity, Size 10

VEP-5A-2R-06-P

OD.91.06.77 - Y - 00







General

Weight	kg (lbs)	0.3 (0.66)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Hydraulic		
Max. operating pressure	bar (psi)	250 (3600)
Flow range	l/min.(gpm)	2-60 (0.5-16)
Max. internal cm ³ /min.	(cu.in./min.)	50 (3)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	44-56 (33-41)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-10A-3N see RE 18325-70
Seal kit		RG10A3010520100 R901111369
Seal kit coil		RG19A1PNBR7010 R934003964
Other technical data		See data sheet RE 18325-90

Electrical

Type of voltage		12 DC voltage
Coil type		S5
Supply voltage		See data sheet RE 18325-90
Nominal voltage		± 10%
Power consumption	W	23
Duty cycle	%	100
Type of protection		See data sheet RE 18325-90

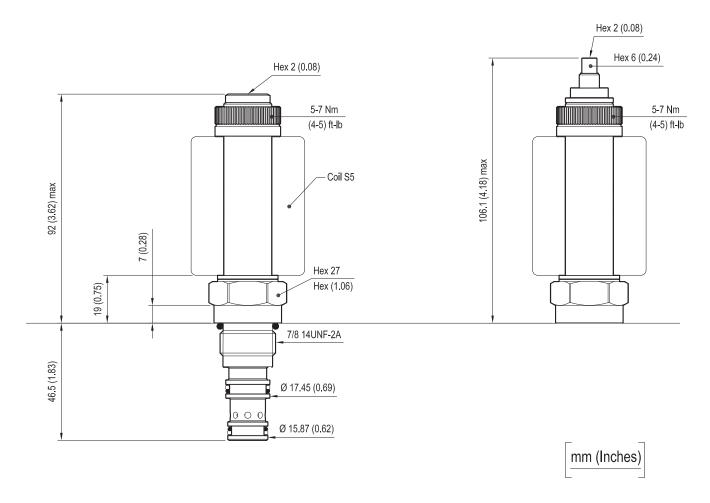
Note: Coils must be ordered separately.





Dimensions

Proportional valves pilot operated pressure reducing

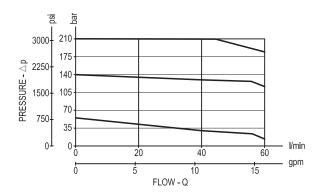


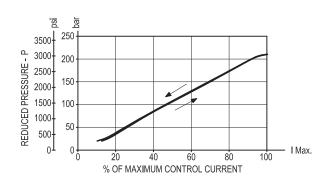
Allowed back pressure at port 3 (Y): 5 bar (73 psi) max





Performance graphs





	I	P bar (psi)	Coils	
I min: 0.1 A 15 (218)		15 (218)	12 DC	
I max:	1.3 A	210 (3045)	12 DC	
PMW Frequency: 120-150 Hz				
Hysteresis: < 5%				

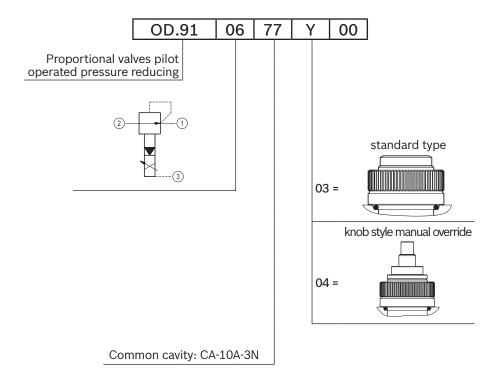
Note (1): It is recommended to use coil 12 DC.

Note (2): It is recommended to bleed air carefully before operation.





Ordering code







COIL D36 - CLASS H - 20 W

OD.02.36 - X - Y - Z

TECHNICAL DATA

Weight: 0.18 kg (0.40 lbs)

Power: 20 W

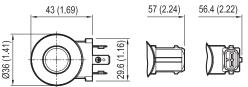
Heat insulation Class H: 180°C (356°F)

Ambient temperature range: -30/+90°C (-22/+194°F)

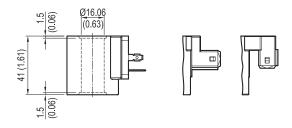
Further performance limits in terms of temperature and voltage fluctuations: please refer to data sheet of the solenoid valve where

D36 coil is mounted.



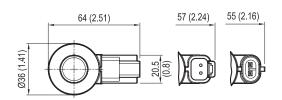


Х	Υ	Connections	Circuit	Voltage
01	30	DIN 43650 - ISO 4400	Standard	DC
07	30	AMP JUNIOR H	Standard	DC
07	3P	AMP JUNIOR V	Standard	DC
14	30	DIN 43650 - ISO 4400	Bidirectional Diode	DC
15	30	AMP JUNIOR H	Bidirectional Diode	DC
15	3P	AMP JUNIOR V	Bidirectional Diode	DC

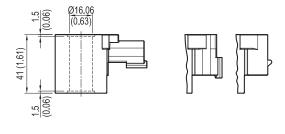


mm / Inches

DEUTSCH DT04-2P-L	DEUTSCH DT04-2P-V	AMP SUPERSEAL-V
IP69K	IP69K	IP69K



Х	Υ	Connections	Circuit	Voltage
20	30	DEUTSCH DT04-2P-L	Standard	DC
20	3P	DEUTSCH DT04-2P-V	Standard	DC
30	3P	AMP SUPERSEAL-V	Standard	DC
22	30	DEUTSCH DT04-2P-L	Bidirectional Diode	DC
22	3P	DEUTSCH DT04-2P-V	Bidirectional Diode	DC
32	3P	AMP SUPERSEAL-V	Bidirectional Diode	DC

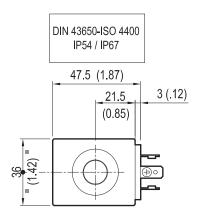


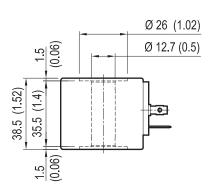




COIL S8-356 - G2 - CLASS H - 19.5 W

OD.02.28 - X - Y - Z





[mm / Inches]

TECHNICAL DATA

Weight DC: 0.20 kg (0.44 lbs) Weight RAC: 0.19 kg (0.42 lbs)

Heat insulation Class H: 180°C (356°F)

Ambient temperature range: -30/+60°C (-22/+140°F) Inlet voltage fluctuations must not exceed ±10%

Χ	Υ	Connections	Circuit	Voltage	
01	30	DIN 43650 - ISO 4400	Standard	DC - RAC	

	Voltage V Resistance Ohm (±7%) Power W Current A		ΔT °C (°F)			
Z	Nominal	Ta = 20-25°C (68-77°F)	Cold coil	Cold coil	Hot coil	1 hour energized at Ta=20-25°C (68-77°F) Nominal voltage
GV	230 DC	2697.73	19.5	* 0.075	* 0.058	95-100
GA	230 RAC	2179.39	19.5	* 0.087	* 0.064	(205-215)

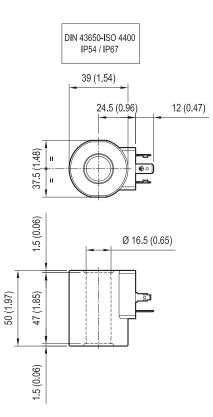
^{*} Note: current valves with Ta= 60 °C (140 °F)





COIL R7 - CLASS H - 18 W

OD.02.21 - X - Y - Z - 00



mm / Inches

TECHNICAL DATA

Weight: 0.31 kg (0.71 lbs) Heat insulation Class H: 180°C (356°F)

Ambient temperature range: -30/+80°C (-22/+284°F)
Inlet voltage fluctuations must not exceed ±15% of nominal voltage to obtain correct operation and long life coils.

Χ	Y Connections		Circuit	Voltage
01	30	DIN 43650 - ISO 4400	Standard	DC

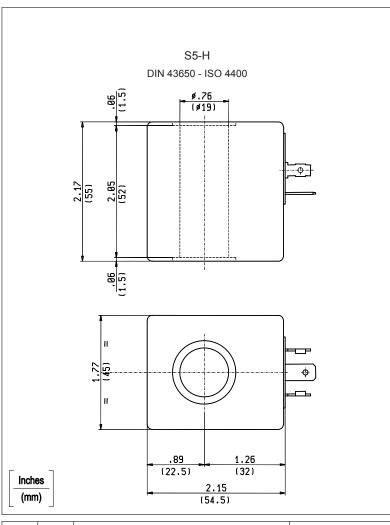
	Voltage V	Resistance Ohm (±7%)	Power W	Current A		ΔT °C (°F)
Z	Nominal	Ta = 20-25°C (68-77°F)	Cold coil	Cold coil	Hot coil	1 hour energized at Ta=20-25°C (68-77°F) Nominal voltage
ОВ	12 DC	7.9	18	1.5	1.1	90-105
						(194-221)





SOLENOID OPERATED VALVES CONTINUOUS DUTY COILS - ED 100%

S5 SERIES OD.02.09.01.30 - Z - 01



TECHNICAL DATA						
General coil information	pag	page 7.01.010				
Weight	0.728 lbs	(0.330 kg)				
Encapsulating material		IXEF				
HEAT INSULATION CLASS H	356 °F	(180 °C)				
Ambient temperature range	-86 +140 °F	(-30 +60 °C)				

Available on request : Different Voltages - Working Duty ED 50%

Inlet voltage fluctuations must not exceed \pm 10% of nominal voltage to obtain correct operation and long life of coils.

Z	Voltage V	Resistance Ω (±7%) Ta = 68-77 °F (20-25 °C)	Power W	Current A		ΔT °F (°C)
	Nominal		Cold Coil	Cold Coil	Hot Coil	1 hour energized at Ta = 68-77 °F (20-25 °C) Nominal Voltage
ОВ	12 DC	6.2	23	1.92	1.41	198-205 (92-96)
OC	24 DC	24.9	23	0.96	0.71	190-203 (92-90)

The present catalogue cancels and supersedes all the previous issues.

Hydrover reserves the right to stop production or to change specifications and dimensions of any valve without prior notice and without incurring in any obbligation.

All the information given by Hydrover, its staff and commercial partners are addressed to users having technical knowledge. The users have to check the suitability of chosen items with their application needs and security.

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Bosch Rexroth Oil Control official dealer



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