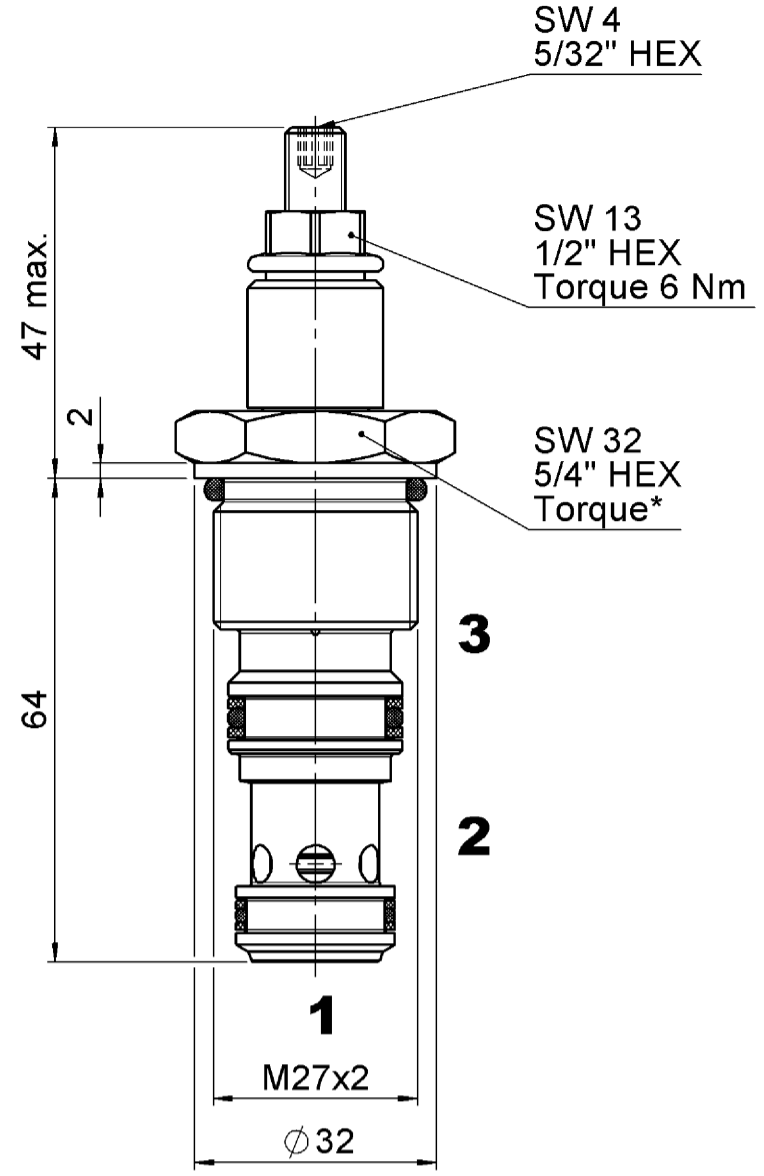
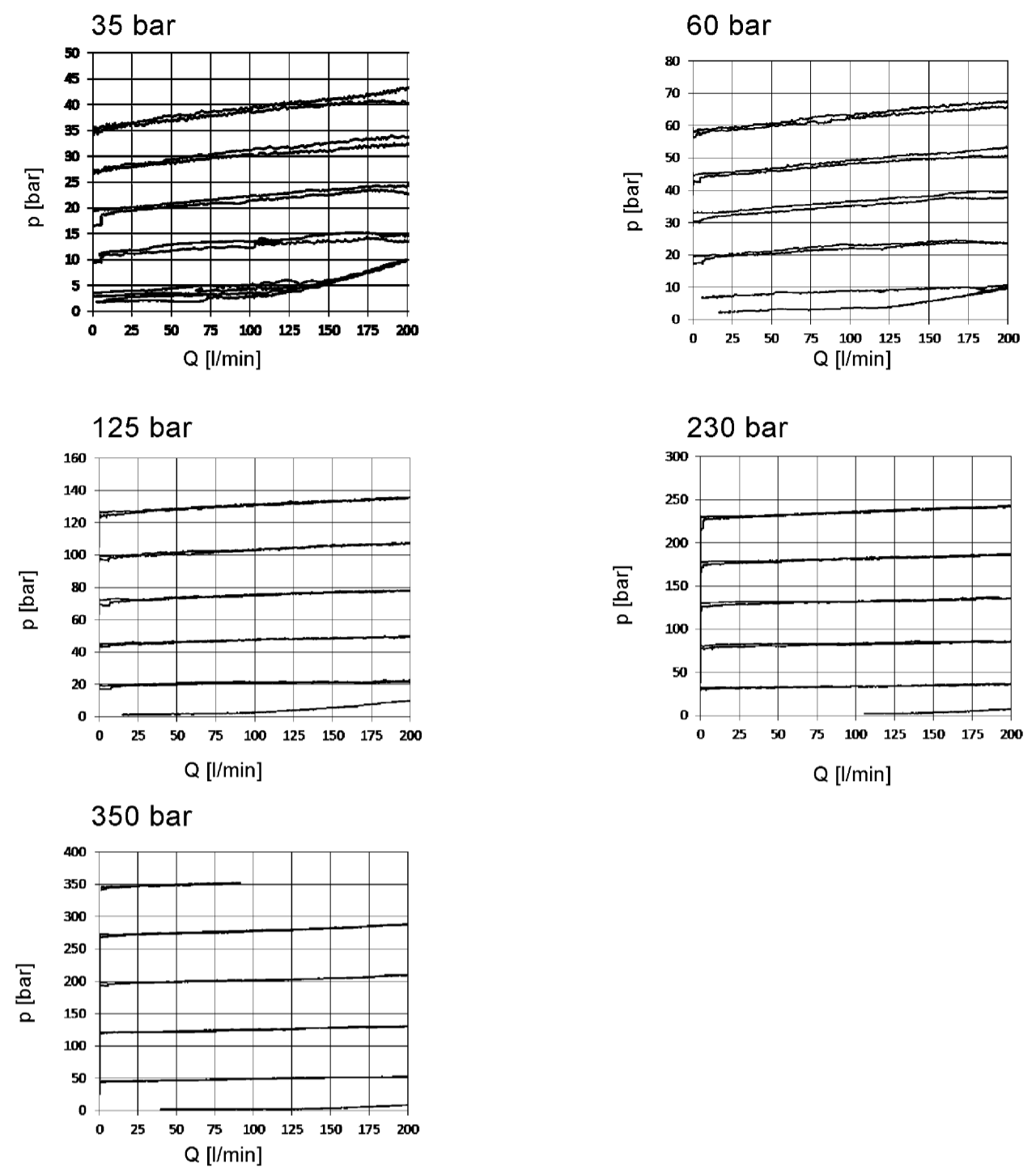


DIMENSIONS



PERFORMANCE

pressure relief function; measured at 46°C and 32 cSt

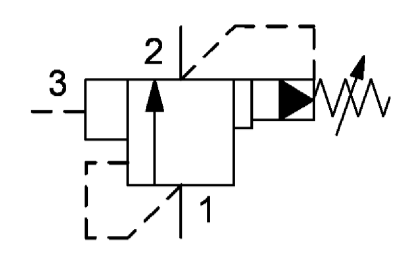


TECHNICAL DATA

**Pressure unloading valve/ Accumulator loading valve*
pilot operated, relief function,
various differential pressures (switching hysteresis)**

*see page 2 for use in accumulator charging circuits

SYMBOL



General

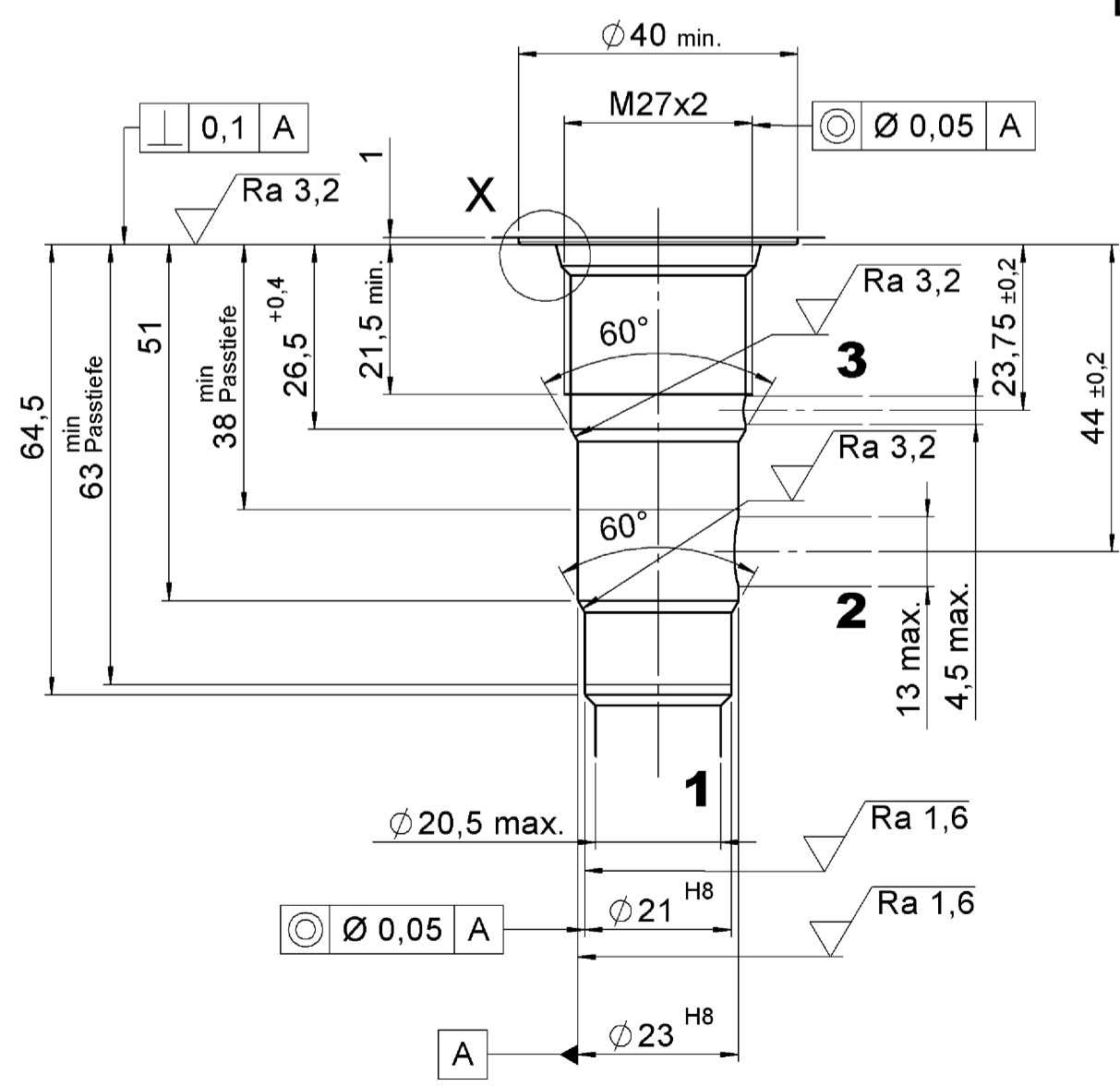
Weights: Valve complete 260 g
Mounting Position: no orientation restrictions
Material: Valve Body: steel
 Spool: hardened steel
 Seals: NBR, FKM (optional)

Hydraulic (pressure unloading)

Operating Pressure: max. 350 bar
Nominal Flow: max. 200 l/min (not for accumulator charging function*)
Switching Pressure Difference (Switching Hysteresis) version dependent
 10 % ±3%
 20 % ±3%
 30 % ±3%
Internal Leakage: at 350 bar and 32 cSt oil viscosity:
 port 1 to 2: 30 cm³/min max. (preliminary)
 port 3 to 2: 30 cm³/min max. (preliminary)
Media operating temperature range: NBR: -30°C to +100°C (visc. limits must be considered)
 FKM: -20°C to +120°C (visc. limits must be considered)
Ambient temperature range: NBR: -30°C to +100°C
 FKM: -20°C to +120°C

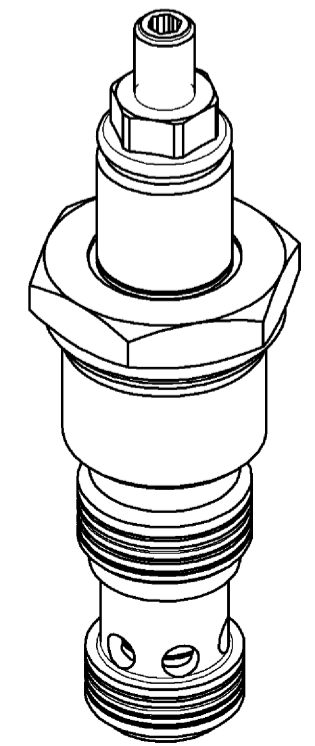
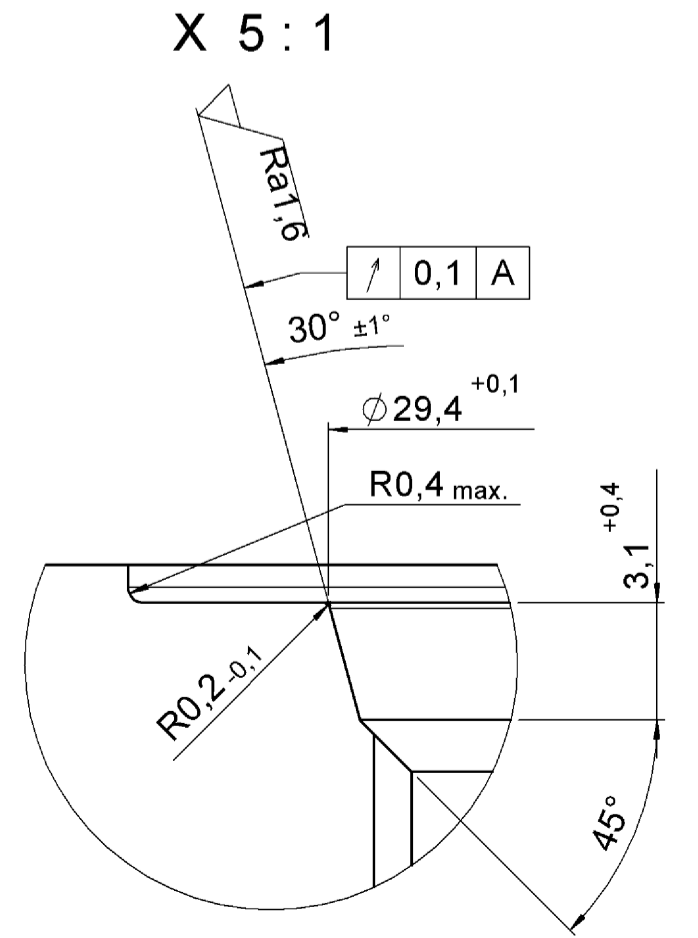
Fluids: Hydraulic fluids according to DIN 51524 parts 1 to 3
Viscosity: 10mm²/s to 420mm²/s
Filtration: Class 19/17/14 according to ISO 4406 or cleaner
General Information: Pressure at port 2 influences the switching pressure

CAVITY 12121



TYPE CODE

DLM12121P-01-C-...-...C...
 pre setted pressure
 pressure range
 hysteresis
 seals



*Torque:

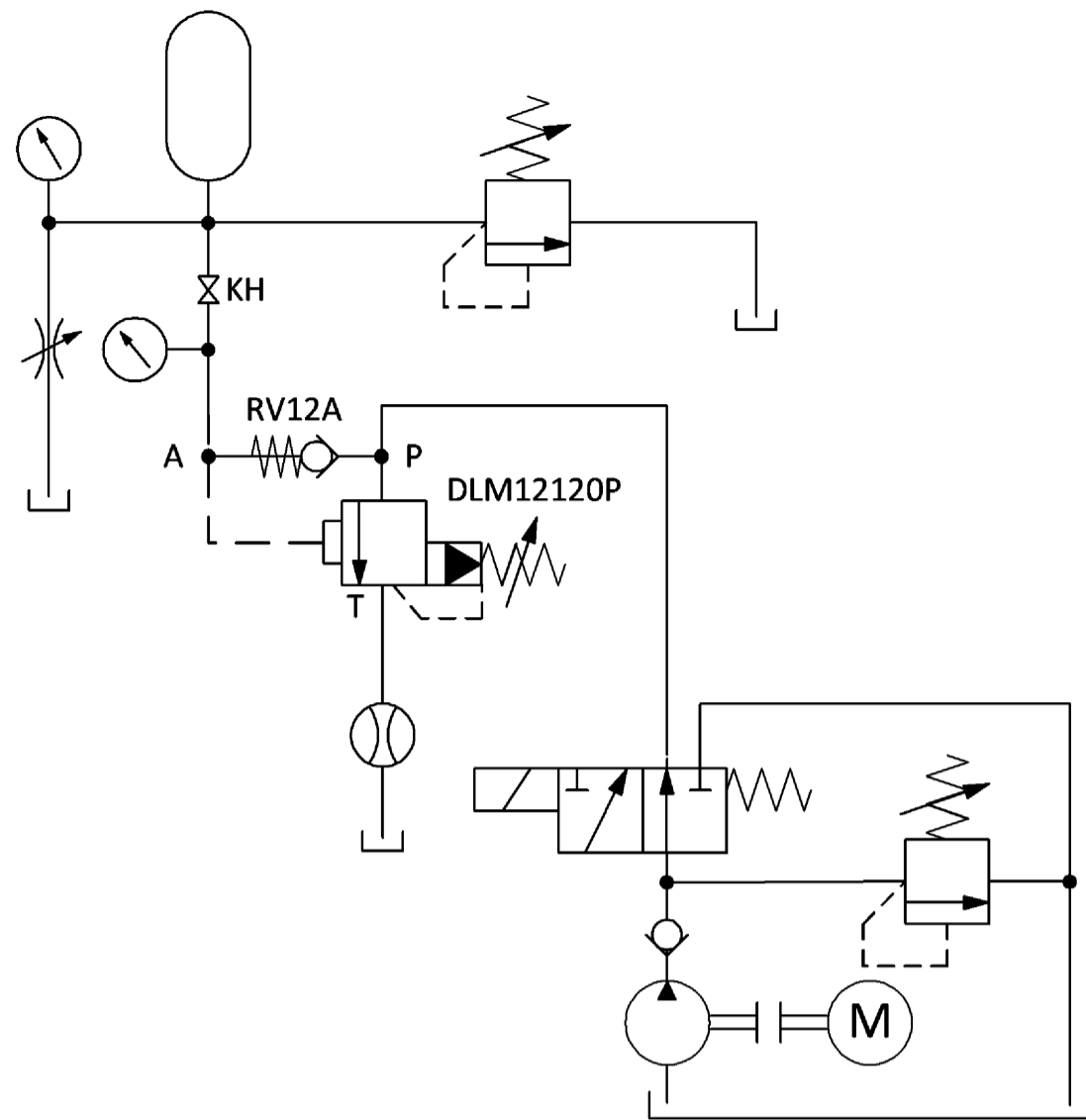
Steel manifold (ultimate tensile strength > 360 N/mm): 105 Nm
 Aluminium manifold (ultimate tensile strength > 330 N/mm): 70 Nm
 (tool acc. to DIN EN ISO 6789, tool type II class A or B)
 For further informations see brochure No. 53.000
 "Conditions and instruction for valves"

Herewith we confirm to meet the basic and well-tried safety principles to ISO 13849-2:2013 chart C.1 and C.2.
 The user is obliged to fulfil the requirements of the basic and well-tried safety principles for the installation and operation of the hydraulic components.

All details in this specification are subject to technical modification!

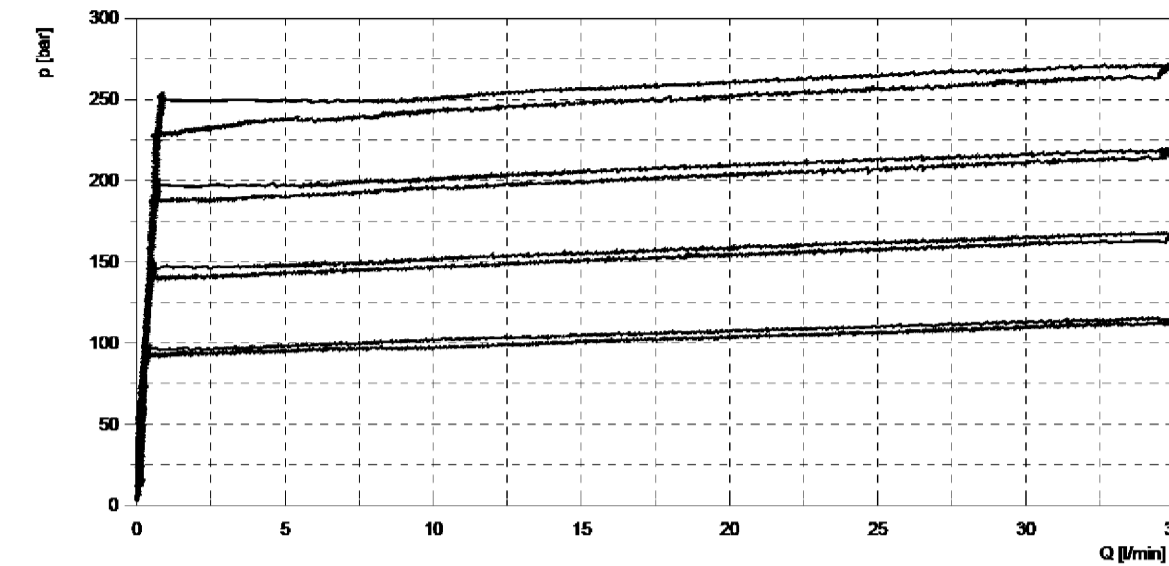
HYDAC ADA Version	Werkstückkanten Corners ISO13715	Oberflächenbeschaffenheit Surface quality	ISO 1302	Allgemeintoleranzen / General tolerances ISO 2768 - m SIZE ISO 14405(E)
				Form u. Lagetoleranz / Toleranzklasse Geometrical tolerances / Tolerance class
				Längenmaße / linear dimensions (mm)
				über/over bis/to
				0,5 3 6 30 120 400 1000 2000 ±0,1 ±0,1 ±0,2 ±0,3 ±0,5 ±0,8 ±1,2
		CH-00318	1:1	Werkstoff / Material Masse / Mass 0,000 KG
Anz. No. Vers.	gepr.am Chkd. on geänd. am Modif. on	gepr. von Chkd. by geänd. von Modif. by	Ä.M.Nr. Notice of change No	Teil / Part 000 Datum / Date Name / Name
				gez./Drawn gepr./Chkd.
				29.08.2016 29.08.16 HESSM2 BILLM2
Blatt von Sheet of 1/2	Benennung / Description MBL DLM12121P-01-C-...-...C...			Zeichn.-Nr. Draw.-No 04071743
Format/Size A2				alte Mat Nr. / Old Mat No.
SW-Vers. 2014				alte Dok Nr. / Old Doc No.
				Ers. für / Exchange for
				Ers. durch / Replaced by

APPLICATION EXAMPLE

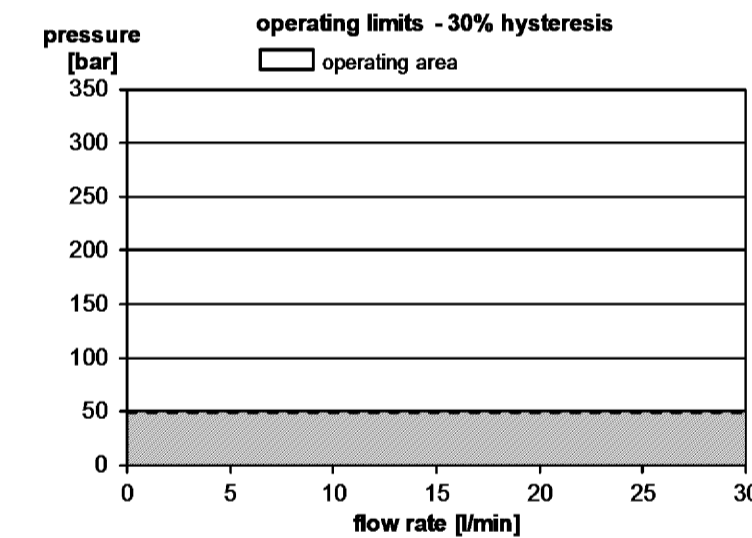
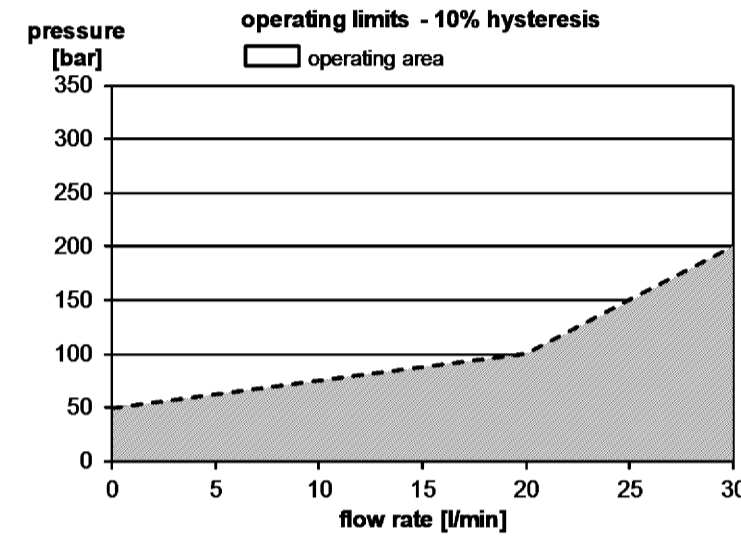
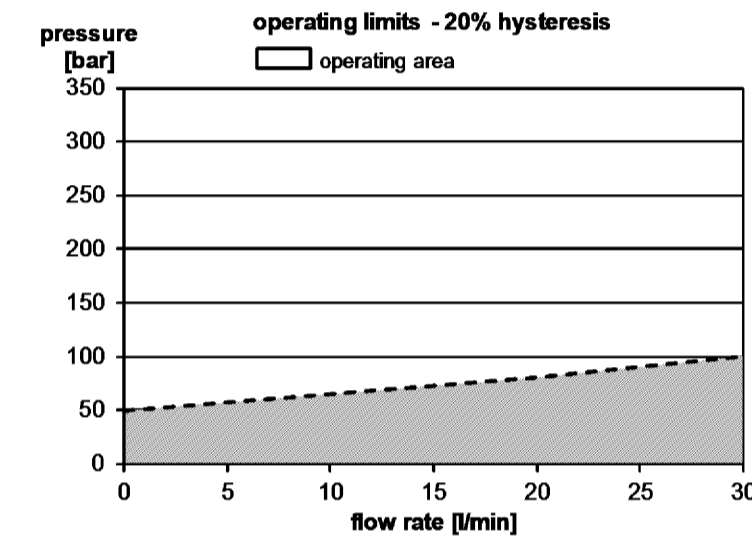


PERFORMANCE

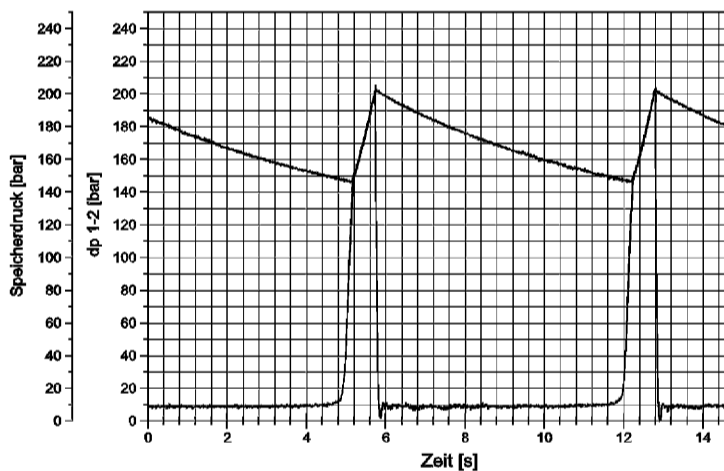
pressure relief function



Operating Limits



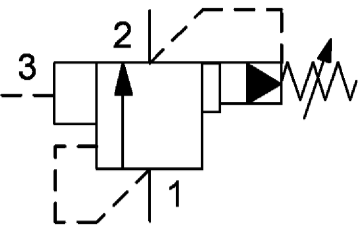
*Exemplaric characteristic curve (accumulator charging circuit)



TECHNICAL DATA

Pressure unloading valve/ Accumulator loading valve pilot operated, relief function, various differential pressures (switching hysteresis)

SYMBOL



General

Weights: Valve complete 260 g
 Mounting Position: no orientation restrictions
 Material: Valve Body: steel
 Spool: hardened steel
 Seals: NBR, FKM (optional)

Hydraulic (accumulator loading)

Operating Pressure: max. 350 bar
 Nominal Flow: max. 30 l/min (for accumulator charging function)
 Switching Pressure Difference (Hysteresis): version dependent
 10 % ±3%
 20 % ±3%
 30 % ±3%
 Internal Leakage: at 350 bar and 32 cSt oil viscosity:
 port 1 to 2: 30 cm³/min max. (preliminary)
 port 3 to 2: 30 cm³/min max. (preliminary)
 Media operating temperature range: NBR: -30°C to +100°C (visc. limits must be considered)
 FK M: -20°C to +120°C (visc. limits must be considered)
 Ambient temperature range: NBR: -30°C to +100°C
 FK M: -20°C to +120°C

Fluids: Hydraulic fluids according to DIN 51524 parts 1 to 3
 Viscosity: 10mm²/s to 420mm²/s
 Filtration: Class 19/17/14 according to ISO 4406 or cleaner
 Operation Frequency < 1 Hz

General Information:



Pressure at port 2 influences the switching pressure. The ratio between the pump flow, the withdrawal rate and the accumulator size influences the pressure loading function. For too short loading or unloading cycles of the accumulator the valve can oscillate or rattle. (Consider operating limits) The minimum cycletime for pressure loading and unloading time is required >1s.

*The exemplaric characteristic curve and the operating limits are measured with the following conditions:

accumulator volume: 2.8 l
 preload pressure: 50 bar
 check valve: RV12A-01-C-N-05 (The pressure drop at the check influences the switching pressure)
 pump flow: 30 l/min

All details in this specification are subject to technical modification!

HYDAC ADA Version	Werkstückkanten Corners ISO13715		Allgemeintoleranzen / General tolerances ISO 2768 - m	SIZE ISO 14405(E)
		Oberflächenbeschaffenheit Surface quality	ISO 1302	Form u. Lagetoleranz / Toleranzklasse Geometrical tolerances / Tolerance class (H)
				Längenmaße / linear dimensions (mm)
				über/over bis/to 0.5 3 6 30 120 400 1000 ±0.1 ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2
		CH-00318	1:1	Werkstoff / Material Masse / Mass 0,000 KG
		Auftr.-Entw.-Projekt-Nr. Ord.-Devel.-Project-No	Maßstab Fertigmaße / Finished size	
Anz. No. Vers.	gepr.am Chkd. on geänd. am Modif. on	gepr. von Chkd. by geänd. von Modif. by	Ä.M.Nr. Notice of change No	Teil / Part 000 Datum / Date Name / Name
				gez./Drawn 29.08.2016 HESSM2
				gepr./Chkd. 29.08.16 BILLM2
Blatt von Sheet of 2 / 2	Benennung / Description			Zeichn.-Nr Draw.-No 04071743
Format/Size A2	MBL DLM12121P-01-C-...C...			alte Mat Nr. / Old Mat No.
SW-Vers. 2014				alte Dok Nr. / Old Doc No.
				Ers. für / Exchange for
				Ers. durch / Replaced by