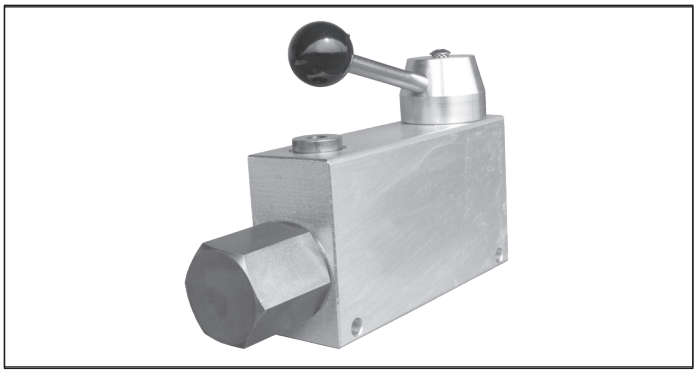
Flow regulator
3 way, combination type
pressure compensated

VRFC3C

0M.42.03.50 - Y

RE 18309-52
Edition: 03.2016
Replaces: 04.2010



Description

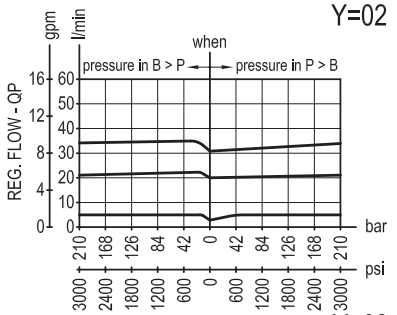
A constant priority flow, regardless of system pressures, is established from E to P, while a minimum pressure differential of appr. 5 bar (70 psi) exists between the two ports. While the regulated priority flow from P is used in the priority circuit, the flow supplied to E in excess of priority is by-passed to port B and can be sent to power other actuators. Priority flow can be varied from zero (Closed) to the nominal maximum rating for the valve (Open). Reverse flow from P to E is limited by the selected opening of the restrictor and is not pressure compensated. Reverse flow from B is not permitted.

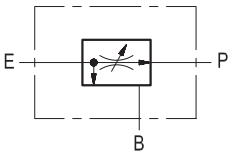
Technical data

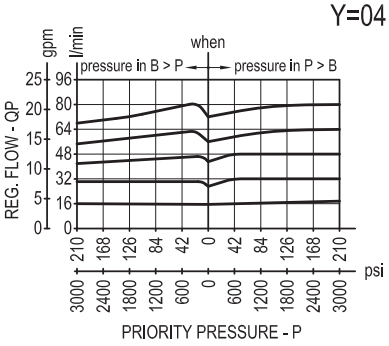
Operating pressure	210 bar (3000 psi)
QE= max. inlet flow “E” port (see “Dimensions”)	
QP= max. regulated flow “P” port (see “Dimensions”)	
Weight	see “Dimensions”
Manifold material	Aluminium
Note: aluminium bodies are often strong enough for operating pressures exceeding 210 bar (3000 psi), depending from the fatigue life expected in the specific application. If in doubt, consult our Service Network.	
Fluid	Mineral oil (HL, HLP) according DIN 51524
Fluid temperature range	-30 °C to 100 (-22 to 212 °F)
Viscosity range	5 to 800 mm^2/s (cSt)
Recommended degree of fluid contamination	Class 19/17/14 according to ISO 4406
Other technical data	see data sheet 18350-50

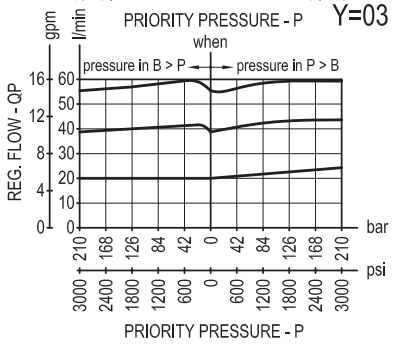
Note: for applications outside these parameters, please consult us.

Characteristic curve









Ordering code

0M.42.03	50	Y

Flow regulator
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Adjustments

Lever with built in friction clutch

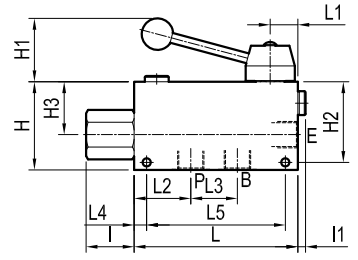
Port sizes	E - B - P
02	G 3/8
03	G 1/2
04	G 3/4

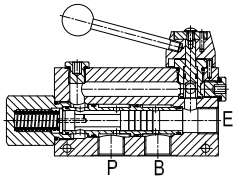
Preferred types

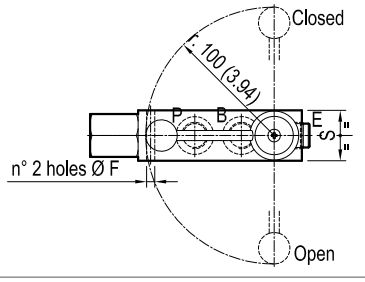
Type	Material number
0M420350020000A	R930000033
0M4203500300000	R930004322
0M4203500400000	R930004323

Type	Material number

Dimensions







50 (1.97)	135 (5.32)	10 (0.39)	44 (1.73)	54 (2.13)	25 (0.98)	155 (6.1)	6 (0.24)	38 (1.5)	55 (2.17)	83 (3.27)	50 (1.97)	90 (3.54)	8.5 (0.34)	90 l/min 24 gpm	150 l/min 40 gpm	G 3/4	2.6 (5.7)
40 (1.58)	110 (4.33)	10 (0.39)	37 (1.46)	45 (1.77)	22 (0.87)	130 (5.12)	6 (0.24)	38 (1.5)	42 (1.65)	64 (2.52)	50 (1.97)	70 (2.76)	6.5 (0.26)	55 l/min 15 gpm	90 l/min 24 gpm	G 1/2	1.4 (3.1)
40 (1.58)	110 (4.33)	10 (0.39)	37 (1.46)	45 (1.77)	22 (0.87)	130 (5.12)	6 (0.24)	38 (1.5)	42 (1.65)	64 (2.52)	50 (1.97)	70 (2.76)	6.5 (0.26)	30 l/min 8 gpm	55 l/min 15 gpm	G 3/8	1.4 (3.1)
S	L5	L4	L3	L2	L1	L	I1	I	H3	H2	H1	H	F	QP	QE	Y	Weight kg (lbs)

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