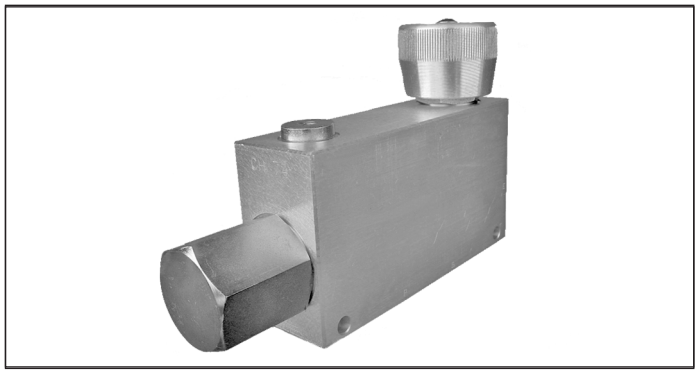
rexroth
A Bosch Company

Flow regulator
3 way, combination type
pressure compensated

VRFC3C

0M.42.03 - X - Y

RE 18309-50
Edition: 03.2016
Replaces: 04.2010



Description

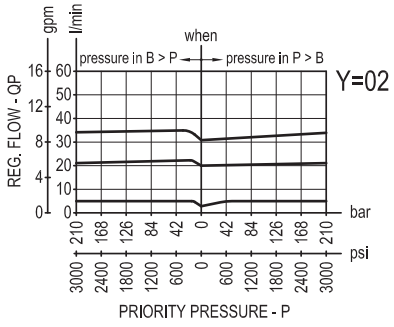
A constant priority flow, regardless of system pressures, is established from E to P, while a minimum pressure differential of appr. 5 bar (70 psi) exists between the two ports. While the regulated priority flow from P is used in the priority circuit, the flow supplied to E in excess of priority is by-passed to B port and can be sent to power other actuators. Priority flow can be varied from closed to the nominal maximum rating of the valve. 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.

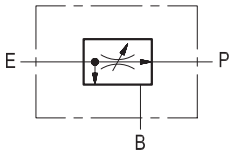
Technical data

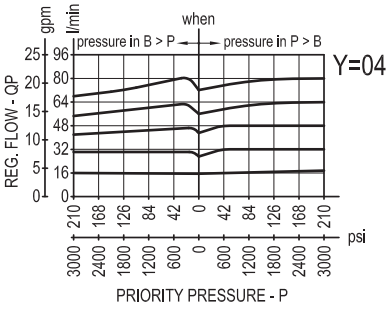
Operating pressure	up to 210 bar (3000 psi)
QE= max. inlet flow “E” port (see “Dimensions”)	
QP= max. priority flow “P” port (see “Dimensions”	
Flow range adjustment	0 - 3 turns
Weight	see “Dimensions”
Manifold material	Aluminium
Note: aluminium bodies are often strong enough for operating pressures 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

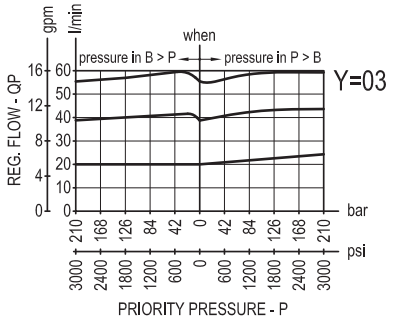
Note: for applications outside these parameters, please consult us.

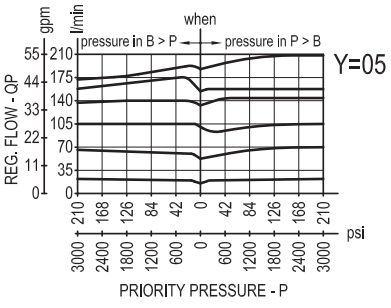
Characteristic curve











Ordering code

0M.42.03	X	Y

Flow regulator
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Adjustments		
70	Handknob and locknut	
80	Screw and locknut	
40	Graduated handknob	

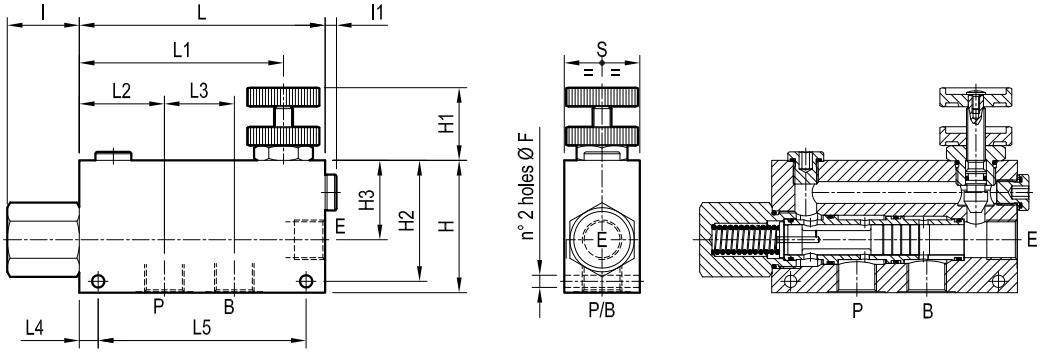
Port sizes	E - B - P
02	G 3/8
03	G 1/2
04	G 3/4
05	G 1

Preferred types

Type	Material number
0M4203700200000	R930004324
0M4203700300000	R930004325
0M4203700400000	R930004328
0M4203700500000	R930004329
0M4203800200000	R930004332
0M4203800300000	R930004333

Type	Material number
0M4203800400000	R930004334
0M4203800500000	R930004336
0M4203400200000	R930004317
0M4203400300000	R930004318
0M4203400400000	R930004319
0M4203400500000	R930004320

Dimensions



S	L5	L4	L3	L2	L1	L	I1	I	H3	H2	H1	H	F	QP	QE	Y	Weight kg (lbs)
70 (2.76)	130 (5.12)	10 (0.39)	56.5 (2.22)	48 (1.89)	122.5 (4.82)	150 (5.91)	6 (0.24)	54 (2.13)	65 (2.56)	120 (4.72)	40 (1.58)	130 (5.12)	8.5 (0.34)	190 l/min 50 gpm	380 l/min 100 gpm	G 1	4.4 (9.7)
50 (1.97)	135 (5.32)	10 (0.39)	44 (1.73)	54 (2.13)	130 (5.12)	155 (6.1)	6 (0.24)	35 (1.38)	55 (2.17)	83 (3.27)	40 (1.58)	90 (3.54)	8.5 (0.34)	90 l/min 24 gpm	150 l/min 40 gpm	G 3/4	2.5 (5.5)
40 (1.58)	110 (4.33)	10 (0.39)	37 (1.46)	45 (1.77)	108 (4.25)	130 (5.12)	6 (0.24)	38 (1.5)	42 (1.65)	64 (2.52)	40 (1.58)	70 (2.76)	6.5 (0.26)	55 l/min 15 gpm	90 l/min 24 gpm	G 1/2	1.3 (2.87)
40 (1.58)	110 (4.33)	10 (0.39)	37 (1.46)	45 (1.77)	108 (4.25)	130 (5.12)	6 (0.24)	38 (1.5)	42 (1.65)	64 (2.52)	40 (1.58)	70 (2.76)	6.5 (0.26)	30 l/min 8 gpm	55 l/min 15 gpm	G 3/8	1.3 (2.87)

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