

Flow regulator 3 way, pressure compensated with relief

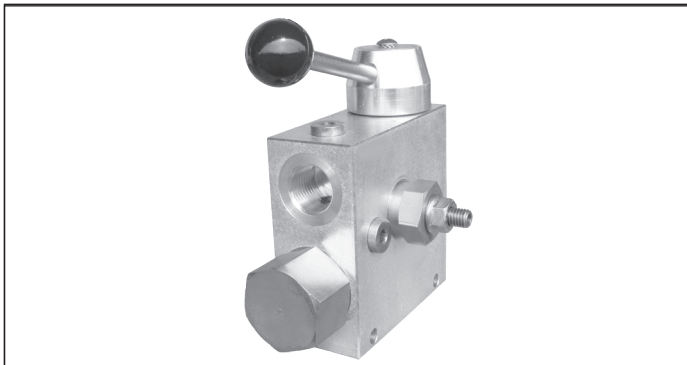
VRFC3-VS

0M.33.03.50 - Y

RE 18309-46

Edition: 03.2016

Replaces: 04.2010



Description

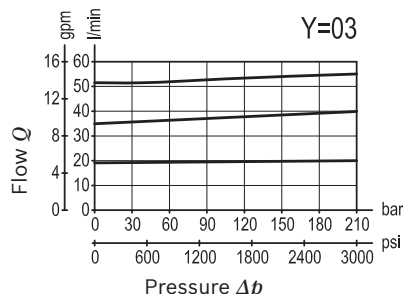
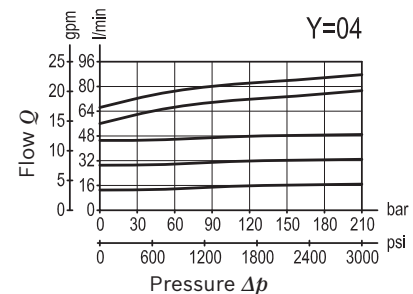
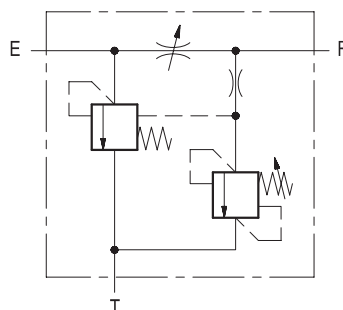
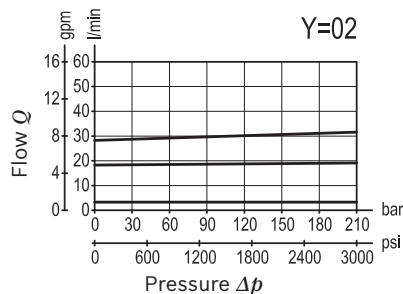
A constant pressure compensated flow rate is established from E to R, while a minimum pressure differential of appr. 5 bar (70 psi) exists between the two ports. Input flow supplied to E in excess of the regulated output at R is bypassed to T. Output flow can be varied from zero (Closed) to the nominal maximum rating for the valve (Open). The valve module includes a small pilot relief cartridge which senses the pressure of the Regulated flow and diverts it to tank if the maximum allowed pressure is reached. Reverse flow from R to E is limited by the selected opening of the lever controlled restrictor and is not pressure compensated. Flow from T to E or from T to R is not permitted.

Technical data

Operating pressure	210 bar (3000 psi)
Adj. relief valve: range	35-210 bar (500-3000 psi)
Standard setting:	210 bar (3000 psi)
QE= max. inlet flow "E" port (see "Dimensions")	
QR= max. regulated flow "R" 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	10 to 500 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



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Flow regulator
3 way, pressure compensated
with relief

Adjustments

Lever with built in friction clutch

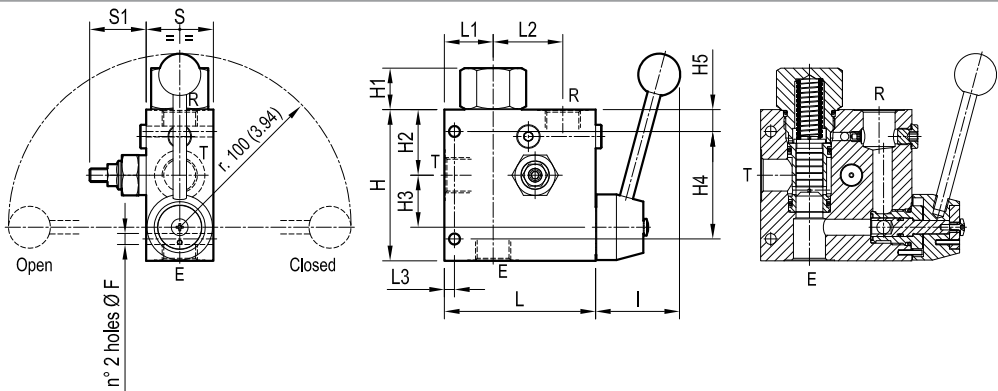
Port sizes	E - R - T
02	G 3/8
03	G 1/2
04	G 3/4

Tamper resistant cap code
ordering code 11.04.23.002
Mat. no. R930000752



Type	Material number
0M330350020000A	R930004256
0M330350030000A	R930004257
0M330350040000A	R930004258

Type	Material number



34	50	7	50	35	108	50	10	88	35	44	25	108	8.5	90 U/min	150 U/min	G 3/4	2.2 (4.9)
(1.34)	(1.97)	(0.28)	(1.97)	(1.38)	(4.25)	(1.97)	(0.39)	(3.47)	(1.38)	(1.73)	(0.98)	(4.25)	(0.34)	24 gpm	40 gpm		
(3.4)	40	6	42.5	30	90	50	13	64	31	39	25	90	6.5	55 U/min	90 U/min		
(1.34)	(1.58)	(0.24)	(1.67)	(1.18)	(3.54)	(1.97)	(0.51)	(2.52)	(1.22)	(1.54)	(0.98)	(3.54)	(0.26)	15 gpm	24 gpm	G 1/2	1.17 (2.58)
(3.4)	40	6	42.5	30	90	50	13	64	31	39	25	90	6.5	30 U/min	55 U/min		
(1.34)	(1.58)	(0.24)	(1.67)	(1.18)	(3.54)	(1.97)	(0.51)	(2.52)	(1.22)	(1.54)	(0.98)	(3.54)	(0.26)	8 gpm	15 gpm		
S1	S	L3	L2	L1	L	I	H5	H4	H3	H2	H1	H	F	QR	QE	Y	Weight (lbs)

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