

Flow regulator

3 way, pressure compensated with relief

VRFC3-VS

0M.33.03.50 - Y

RE 18309-46

Edition: 03.2016

Replaces: 04.2010



Technical data

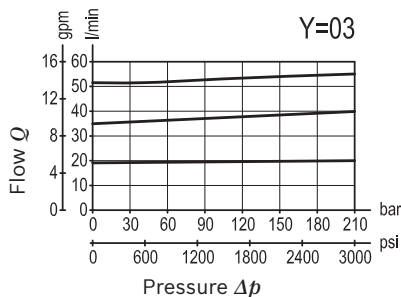
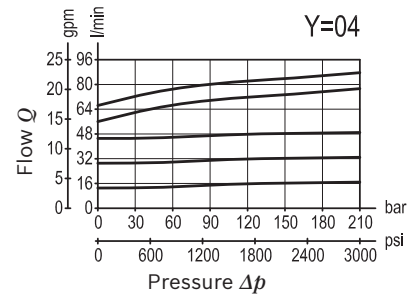
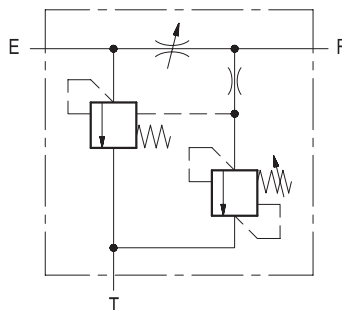
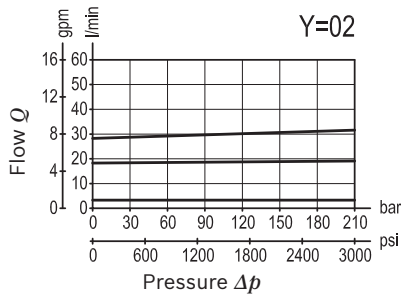
Operating pressure	210 bar (3000 psi)
Adj. relief valve: range	35-210 bar (500-3000 psi)
Standard setting:	210 bar (3000 psi)
QE= max. inlet flow "E" port (see "Dimensions")	
QR= max. regulated flow "R" port (see "Dimensions")	
Weight	see "Dimensions"
Manifold material	Aluminium
Note: aluminium bodies 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.

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.

Characteristic curve



Ordering code

0M.33.03	50	Y
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Flow regulator
3 way, pressure compensated
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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

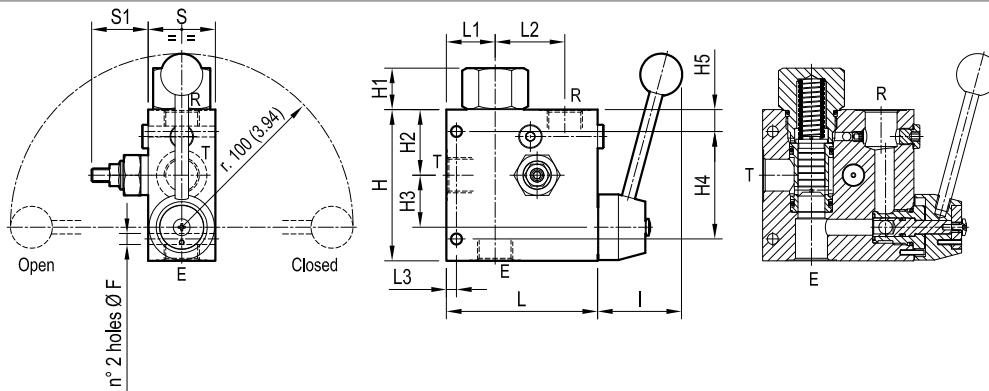


Preferred types

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

Type	Material number

Dimensions



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

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