

Flow regulator

3 way, pressure compensated with check valve for free reverse flow

VRFC3-VU

0M.39.03 - X - Y

RE 18309-43

Edition: 03.2016

Replaces: 04.2010



Technical data

Operating pressure	up to 210 bar (3000 psi)
Max. flow (see "Performance graph")	
QE= max. inlet flow "E" port (see "Dimensions")	
QR= max. regulated flow "R" port (see "Dimensions")	
Flow range adjustment	0 - 3 turns
Weight	see "Dimensions"
Manifold material	Aluminium

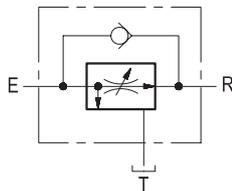
Note: aluminium bodies are often strong enough for operating pressures exceeding 210 bar (3000 psi), depending from the fatigue life expected in the specific application. If in doubt, consult our Service Network.

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

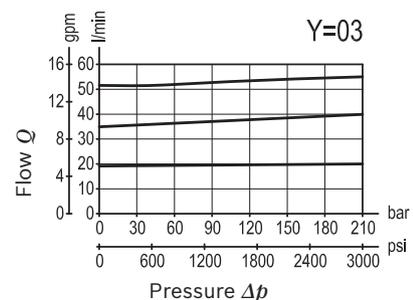
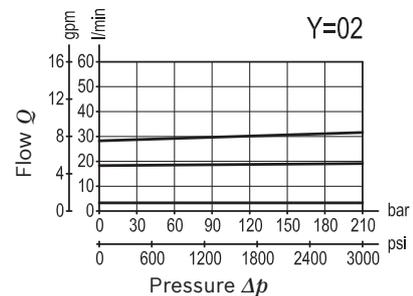
Note: for applications outside these parameters, please consult us.

Description

A constant flow rate, regardless of system pressures, 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 by-passed to T. Output flow can be varied from closed to the nominal maximum rating for the valve. Reverse flow from R to E is limited by the selected opening of the restrictor and is not pressure compensated. Flow from T to E or from T to R is not possible. Increasing or decreasing inlet flow may cause slight increase or decrease of Regulated flow.



Characteristic curve



Ordering code

0M.39.03	X	Y
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Adjustments

70	Handknob and locknut	
80	Screw and locknut	
40	Graduated handknob	

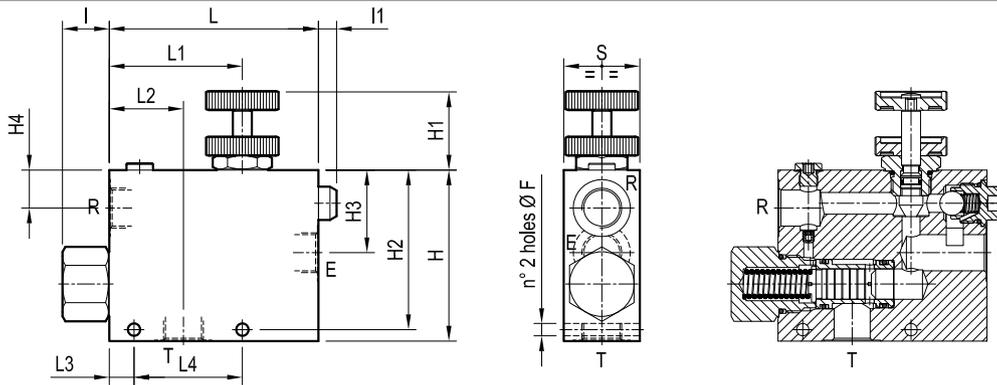
Port sizes	E - R - T
02	G 3/8
03	G 1/2

Preferred types

Type	Material number
0M390370020000A	R930004298
0M390370030000A	R930004299
0M3903800200000	R930004301

Type	Material number
0M390380030000A	R930004302
0M390340020000A	R930004293
0M3903400300000	R930004295

Dimensions



40 (1.58)	57 (2.24)	13 (0.51)	39 (1.54)	70 (2.76)	110 (4.33)	10 (0.39)	25 (0.98)	17.5 (0.69)	43.5 (1.71)	84 (3.31)	40 (1.58)	90 (3.54)	6.5 (0.26)	55 l/min 15 gpm	90 l/min 24 gpm	G 1/2	1.15 (2.54)
40 (1.58)	57 (2.24)	13 (0.51)	39 (1.54)	70 (2.76)	110 (4.33)	10 (0.39)	25 (0.98)	17.5 (0.69)	42 (1.65)	84 (3.31)	40 (1.58)	90 (3.54)	6.5 (0.26)	30 l/min 8 gpm	55 l/min 15 gpm	G 3/8	1.15 (2.54)
S	L4	L3	L2	L1	L	I1	I	H4	H3	H2	H1	H	F	QR	QE	Y	Weight kg (lbs)