

# Flow regulator

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

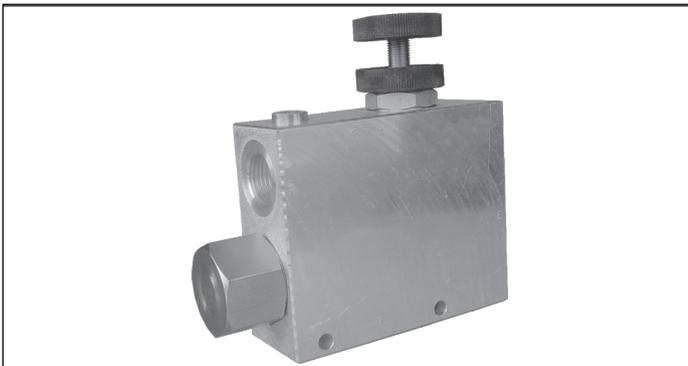
VRFC3-VU

0M.39.03 - X - Y

**RE 18309-43**

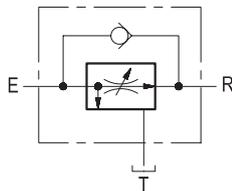
Edition: 03.2016

Replaces: 04.2010



### 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.

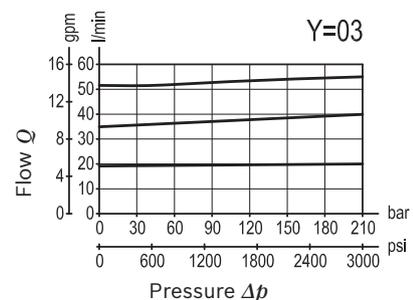
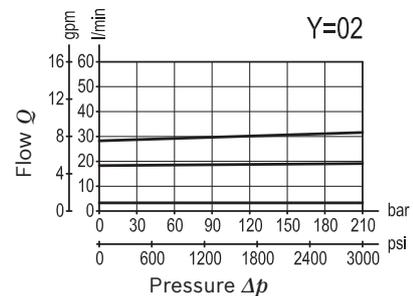


### Technical data

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 <sup>2</sup> /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**

<b>0M.39.03</b>	<b>X</b>	<b>Y</b>
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**Adjustments**

<b>70</b>	Handknob and locknut	
<b>80</b>	Screw and locknut	
<b>40</b>	Graduated handknob	

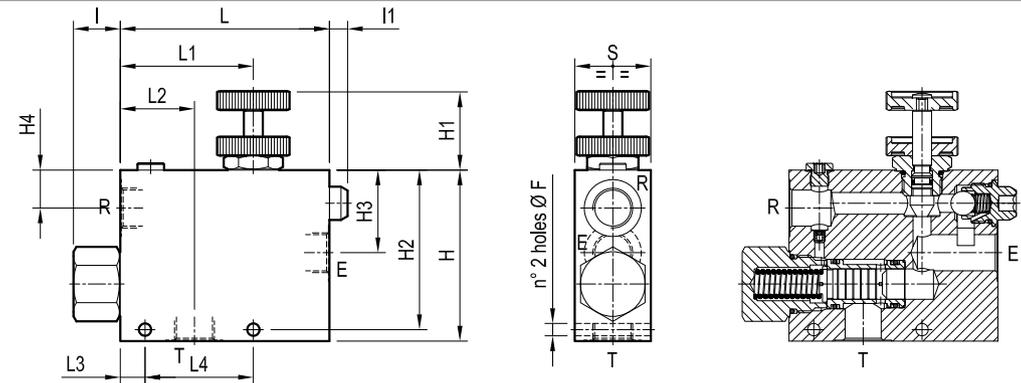
Port sizes	E - R - T
<b>02</b>	G 3/8
<b>03</b>	G 1/2

**Preferred types**

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

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

**Dimensions**



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

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