

Flow regulator

3 way, pressure compensated with relief and solenoid by-pass

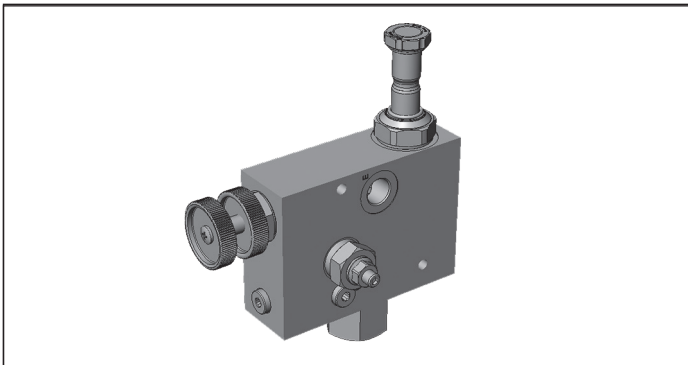
VRFC3-VS-BPE

0M.38.03 - X - Y

RE 18309-48

Edition: 03.2018

Replaces: 03.2016



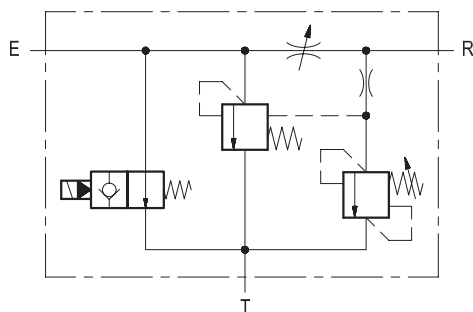
Technical data

Operating pressure	210 bar (3000 psi)
Adj. relief valve: range	105-210 bar (1523-3000 psi)
Standard setting:	210 bar (3000 psi)
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 to DIN 51524
Fluid temperature range	-20 °C to 80 (-4 to 176 °F)
Viscosity range	20 to 380 mm ² /s (cSt)
Recommended degree of fluid contamination	Class 19/17/14 according to ISO 4406
The coil must be ordered separately	
Other technical data	see data sheet 18350-50

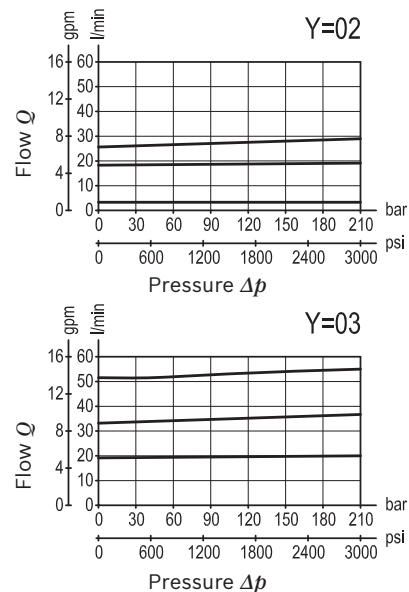
Note: for applications outside these parameters, please consult us.

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 by-passed to T. Regulated flow can be varied from closed to the nominal maximum rating of the valve and its pressure is controlled by a relief cartridge which will dump the output flow if the maximum pressure is reached. A normally open solenoid cartridge by-passes all Inlet flow to tank when de-energized. Reverse flow from R to E is limited by the selected opening of the restrictor and is not pressure compensated. Flow from T to R is not permitted.



Characteristic curve



Ordering code

0M.38.03	X	Y
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Flow regulator
3 way, pressure compensated
with relief and solenoid by-pass

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

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



Preferred types

Type	Material number
0M380370020000C	R930067639
0M380370030000D	R930066911
0M380380020000A	R930006764
0M380380030000C	R930069293

Type	Material number
0M380340020000A	R930069294
0M380340030000C	R930066853

Dimensions

Coil not included

40	68	15	39	70	73	90	65	20.5	59	39	40	123	6.5	55 l/min	90 l/min	G 1/2	1,55
(1.58)	(2.68)	(0.59)	(1.54)	(2.76)	(2.87)	(3.54)	(2.56)	(0.81)	(2.32)	(1.54)	(1.58)	(4.84)	0.26	15 gpm	24 gpm		(3.42)
40	68	15	39	70	73	90	65	19.5	59	39	40	123	6.5	30 l/min	55 l/min	G 3/8	1,55
(1.58)	(2.68)	(0.59)	(1.54)	(2.76)	(2.87)	(3.54)	(2.56)	(0.77)	(2.32)	(1.54)	(1.58)	(4.84)	0.26	8 gpm	15 gpm		(3.42)
S	L5	L4	L3	L2	L1	L	H5	H4	H3	H2	H1	H	F	QR	QE	Y	Weight
																	kg (lbs)

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