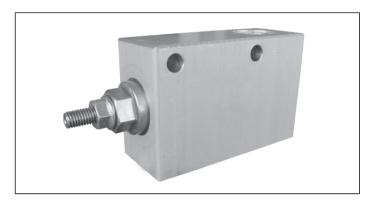


Pressure reducing and relieving, direct acting spool type

RE 18309-72

Edition: 03.2016 Replaces: 04.2010

05.90.27 - X - Y - Z VRP-R



Description

Initially, flow passes freely from P to REG. When the pressure at REG exceeds the pressure setting, the valve acts to restrict input flow at P. This increases the pressure drop through the valve and maintains consistent pressure at REG. The spring chamber is drained to prevent a build-up of back-pressure against the spool. Additionally, if pressure at REG rises above the pressure setting, flow is relieved to R (Tank) until the setting is re-attained.

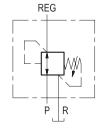
Technical data

Max. operating pressure	210 bar (3000 psi)	
Max. flow	20 l/min. (5 gpm)	
Max. leakage: 10 cc/min. (0.6 in ³ /min.) at 90% of pressure setting		
Weight	0.85 kg (1.87 lbs)	
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.

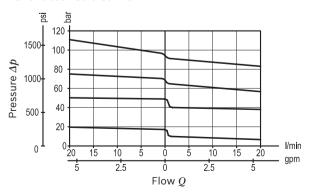
Fluid	Mineral oil (HL, HLP) according DIN 51524
Fluid temperature range	-30 °C to 100 (-22 to 212 °F)
Viscosity range	5 to 800 mm ² /s (cSt)
Recommended degree of fluid contamination	Class 19/17/14 according to ISO 4406
Other technical data	see data sheet 18350-50

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



P = Inlet REG = A (Reduced pressure) R = T (Tank)

Characteristic curve



SPRINGS		
Adj. pressure	Pres. increase	Std. setting
range	bar/turn	Q=5 (I/min)
bar (psi)	(psi/turn)	bar (psi)
2-21	3	10
(30-305)	(44)	(145)
3-42	5	20
(44-610)	(73)	(290)
7-63	8	30
(102-914)	(116)	(435)
11-105	13	50
(160-1525)	(189)	(725)
	range bar (psi) 2-21 (30-305) 3-42 (44-610) 7-63 (102-914) 11-105	Adj. pressure range bar/turn (psi) (psi/turn) 2-21 3 (30-305) (44) 3-42 5 (44-610) (73) 7-63 8 (102-914) (116) 11-105 13

Tamper resistant cap ordering code 11.04.23.002 Mat. no. R930000752

Z

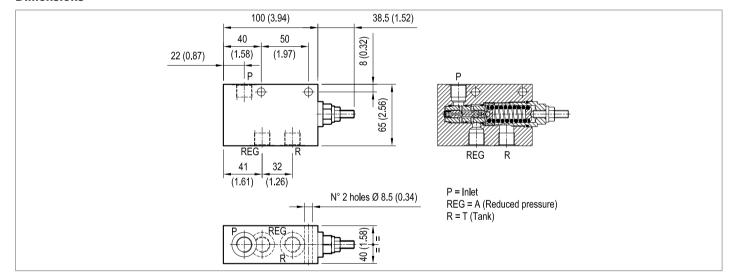
Preferred types

2

Туре	Material number
05902703020200B	R930002585
05902703020400B	R930002587
05902703020600B	R930002588
05902703021000B	R930002589

Туре	Material number

Dimensions



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