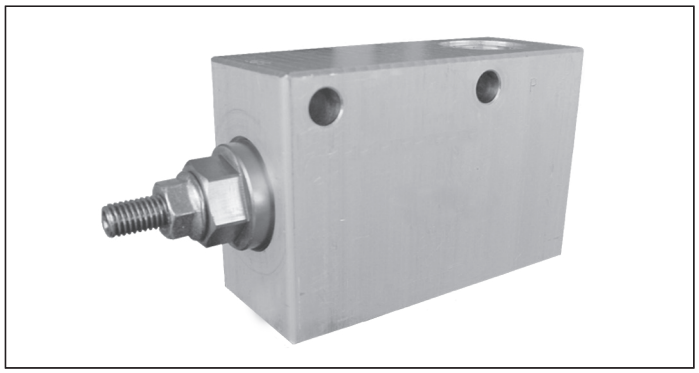
rexroth
A Bosch Company

Pressure reducing and relieving, direct acting spool type

VRP-R

05.90.27 - X - Y - Z

RE 18309-72
Edition: 05.2020
Replaces: 03.2016



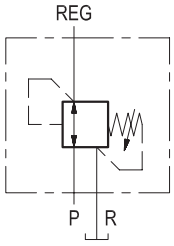
Description

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

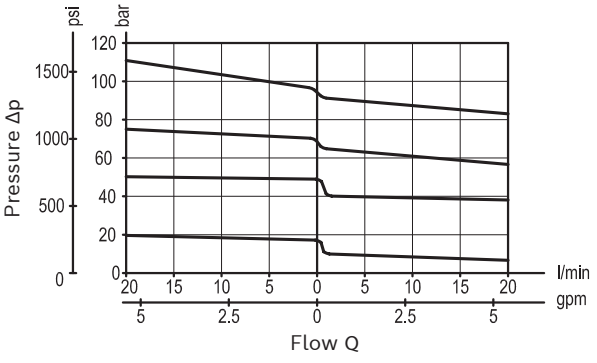
Max. operating pressure	210 bar (3000 psi)
Max. flow	20 l/min. (5 gpm)
Max. leakage: 10 cc/min. (0.6 in^3/min.) at 90% of pressure setting	
Weight	0.85 kg (1.87 lbs)
Manifold material	Aluminium
Note: aluminium bodies are often strong enough for operating pressures exceeding 210 bar (3000 psi), depending 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)
MTTFD	150 years see RE 18350-51
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



Ordering code

05.90.27	X	Y	Z

Pressure reducing and relieving direct acting spool type

Adjustments

03 Leakproof hex. socket screw



Port sizes	P	R	REG
02	G 3/8	G 3/8	G 3/8

	SPRINGS		
	Adj. pressure range bar (psi)	Pres. increase bar/turn (psi/turn)	Std. setting Q=5 (l/min) bar (psi)
02	2-21 (30-305)	3 (44)	10 (145)
04	3-42 (44-610)	5 (73)	20 (290)
06	7-63 (102-914)	8 (116)	30 (435)
10	11-105 (160-1525)	13 (189)	50 (725)

Tamper resistant cap
ordering code 11.04.23.002
Mat. no. R930000752

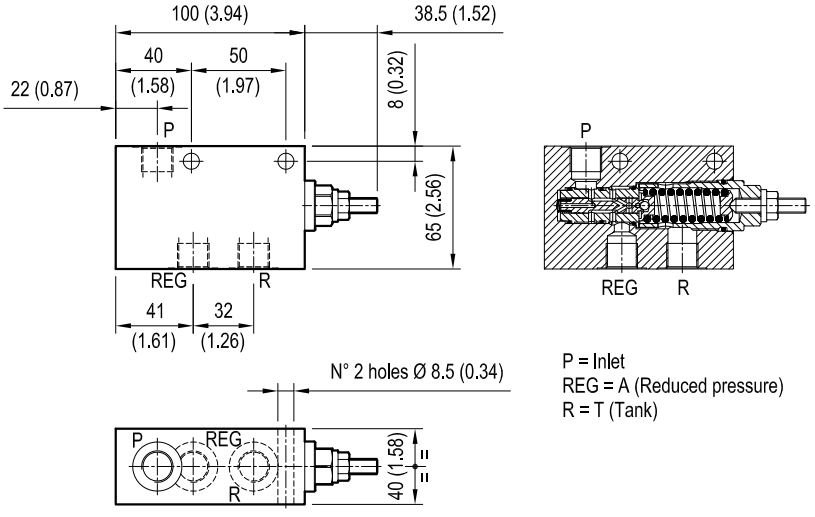


Preferred types

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

Type	Material number

Dimensions



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