

# Pressure reducing and relieving, direct acting spool type

# 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.

05.90.27 - X - Y - Z

**RE 18309-72** Edition: 05.2020 Replaces: 03.2016

# Technical data

Max. operating pressure	210 bar (3000 psi)			
Max. flow	20 l/min. (5 gpm)			
Max. leakage: 10 cc/min. (0.6 in <sup>3</sup> /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 mm²/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**





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	SPRINGS		
ľ	Adj. pressure	Pres. increase	Std. setting
	range	bar/turn	Q=5 (l/min)
	bar (psi)	(psi/turn)	bar (psi)
<b>02</b> 2-21	3	10	
02	(30-305)	(44)	(145)
3-4	3-42	5	20
04	(44-610)	(73)	(290)
00	7-63	8	30
06	(102-914)	(116)	(435)
10	11-105	13	50
	(160-1525)	(189)	(725)

Tamper resistant cap

ordering code 11.04.23.002

Mat. no. R930000752

#### **Preferred types**

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

#### Dimensions



#### Bosch Rexroth Oil Control S.p.A.

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