

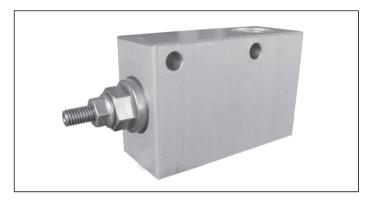
# Pressure reducing and relieving, direct acting spool type

RE 18309-72

Edition: 05.2020

Replaces: 03.2016

## 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

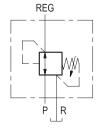
05.90.27 - X - Y - Z

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.

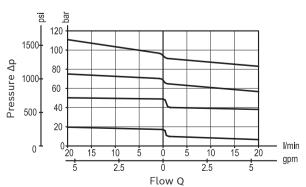
Fluid	Mineral oil (HL, HLP) according DIN 51524
Fluid temperature range	-30 °C to 100 (-22 to 212 °F)
Viscosity range	5 to 800 mm <sup>2</sup> /s (cSt)
MTTFD	150 years see RE 18350-51
Recommended degree of fluid contamination	Class 19/17/14 according to ISO 4406
Other technical data	see data sheet 18350-50

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

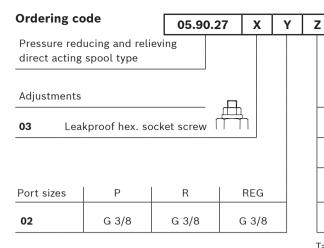


P = Inlet REG = A (Reduced pressure) R = T (Tank)

#### Characteristic curve



# VRP-R | Pressure reducing and relieving



	SPRINGS		
	Adj. pressure	Pres. increase	Std. setting
	range	bar/turn	Q=5 (l/min)
	bar (psi)	(psi/turn)	bar (psi)
02	2-21	3	10
	(30-305)	(44)	(145)
04	3-42	5	20
	(44-610)	(73)	(290)
06	7-63	8	30
	(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

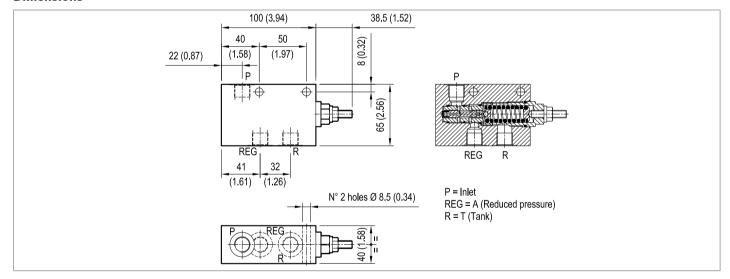
## **Preferred types**

2

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

Туре	Material number

#### **Dimensions**



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

Via Leonardo da Vinci 5 P.O. Box no. 5 41015 Nonantola – Modena, Italy Tel. +39 059 887 611 Fax +39 059 547 848 compact-hydraulics-pib@boschrexroth.com www.boschrexroth.com/compacthydraulics ® This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth Oil Control S.p.a.. It may not be reproduced or given to third parties without its consent. The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging. Subject to change.