

Pressure reducing and relieving, direct acting spool type, with free flow check valve

VRP-R-VU



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. A check valve allows quick emptying of REGULATED circuit when inlet pressure drops low.

05.90.19 - X - Y - Z

RE 18309-73

Edition: 03.2016 Replaces: 04.2010

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	1 kg (2.2 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 (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)	
	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

Material number
R930002573
R930002574
R930002575
R930002576

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.