

Directional spool type, direct acting,
external pilot port vented
Special cavity, CA-16A-5C

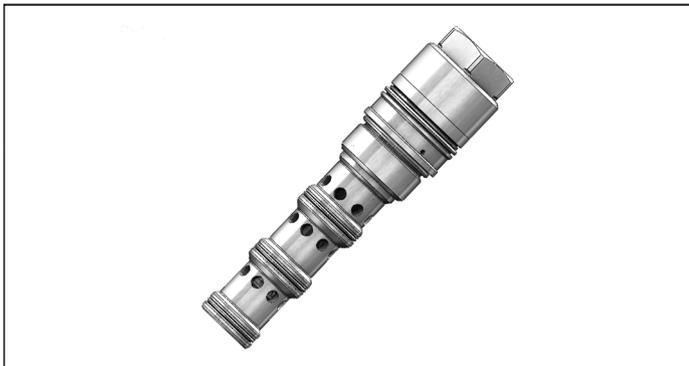
VDSJ-16A-RN

04.77.42 - X - 27 - Z

RE 18320-94

Edition: 06.2019

Replaces: 10.2018

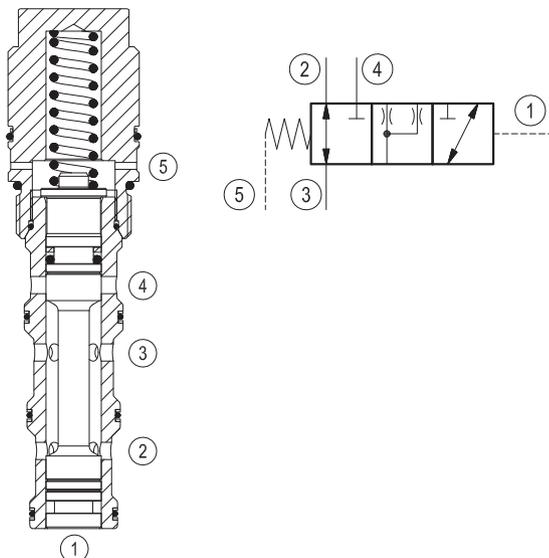


Technical data	
Max. operating pressure	350 bar (5000 psi)
Max. flow	160 l/min. (43 gpm)
Max. internal leakage ¹⁾	80 cm ³ /min. (5 cu.in./min.)
Pilot displacement volume	1.61 cm ³ (0.1 cu.in.)
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	108 - 122 Nm (80 - 90 ft-lbs)
Weight	0.74 kg (1.63 lbs)
MTTFD	150 years see RE 18350-51
Cavity	CA-16A-5C (see data sheet 18325-75)
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit ²⁾	Code: RG16A5010530100 material no: R930006567
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Recommended degree of fluid contamination	Nominal value max. 10µm (NAS 8) / ISO 4406 19/17/14
Installation position	No restrictions
Other Technical Data	See data sheet 18350-50

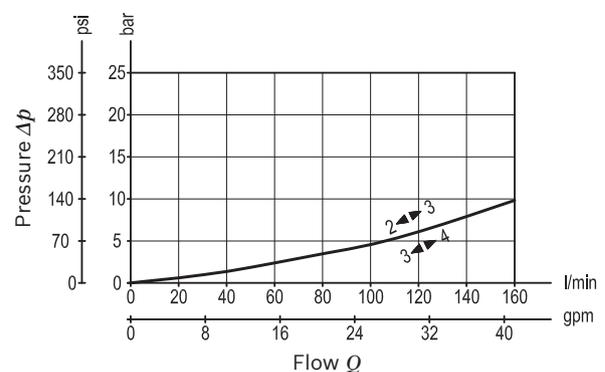
Description

Flow is allowed bi-directionally between 2 and 3, and blocked at 4 until pressure at 1 rises to overcome the spring bias against the spool. When this bias pressure is surpassed, the spool shifts, allowing bi-directional flow between 3 and 4 while blocking 2. The port 5 to be connected with the external drain, allowing consistent shifting with only spring bias pressure independent of conditions at 2, 3 and 4.

- 1) Measured at 200 bar (2900 psi)
- 2) Only external seals for 10 valves



Characteristic curve



Ordering code

04.77.42	X	27	Z	00	*
-----------------	----------	-----------	----------	-----------	----------

Directional spool type, direct acting
external pilot port vented

Series 0/A to L
unchanged performances and dimensions

Version and options standard

O-Ring on pilot piston

00 No O-Ring

SPRINGS	
Std. setting bar (psi)	
05	5 (73) ± 20%
11	11 (160) ± 10%

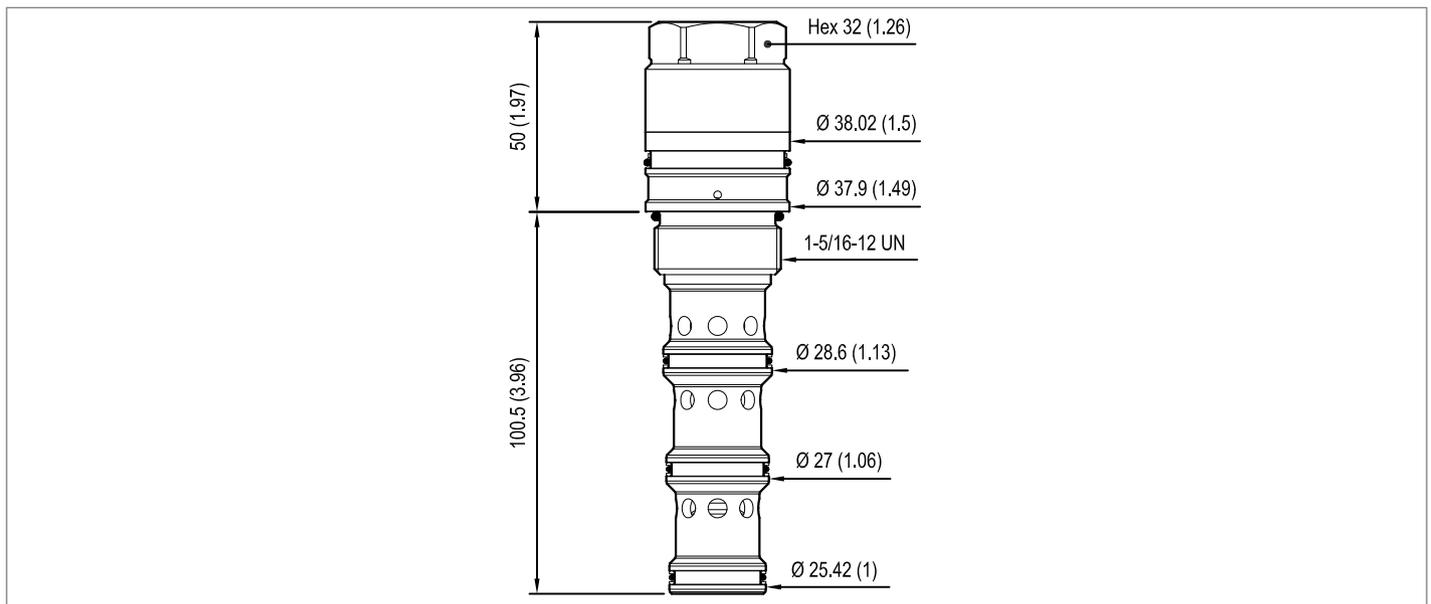
27 Common cavity, Size 16

Preferred types

Type	Material number
047742002705000	R930006568
047742002711000	R930006569

Type	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-cv@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.