

Directional spool type, direct acting,
external pilot external vent
Common cavity, Size 16

VDSC-16A

04.77.20 - X - 27 - Z

RE 18320-78

Edition: 03.2016

Replaces: 01.2010



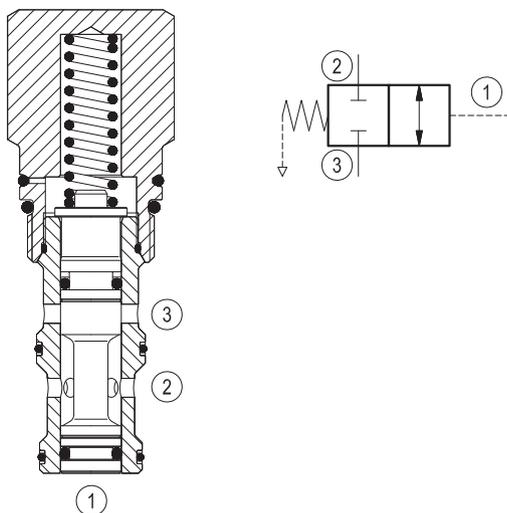
Technical data

Max. operating pressure	350 bar (5000 psi)
Max. flow	160 l/min. (43 gpm)
Max. internal leakage ¹⁾	200 cm ³ /min. (12 cu.in./min.)
Pilot displacement volume	1.61 cm ³ (0.10 cu.in.)
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	108 - 122 Nm (80 - 90 ft-lbs)
Weight	0.67 kg (1.48 lbs)
Cavity	CA-16A-3N (see data sheet 18325-70)
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit ²⁾	Code: RG16A3010530100 material no: R930001178
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

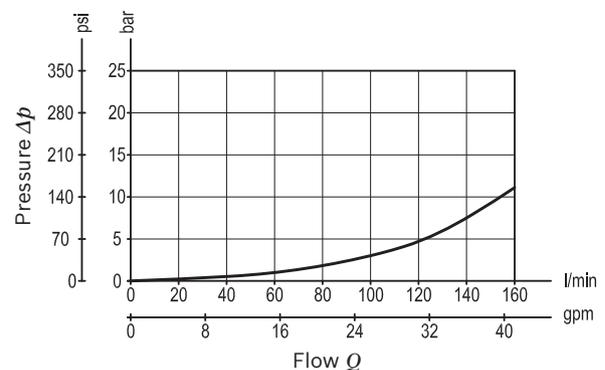
Description

Flow is blocked bi-directionally at 2 and 3 until pressure at 1 rises to overcome the spring bias against the spool. When this bias pressure is surpassed, the spool shifts, allowing flow from 2 to 3, or 3 to 2. The spring chamber is sealed and vented to atmosphere, allowing consistent shifting with only spring bias pressure independent of conditions at 2 or 3.

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



Characteristic curve



Ordering code

04.77.20	X	27	Z	00	*
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Directional spool type, direct acting
external pilot external vent

Series 0/A to L
unchanged performances and dimensions

Version and options standard

O-Ring on pilot piston

00 No O-Ring

10 With O-Ring

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

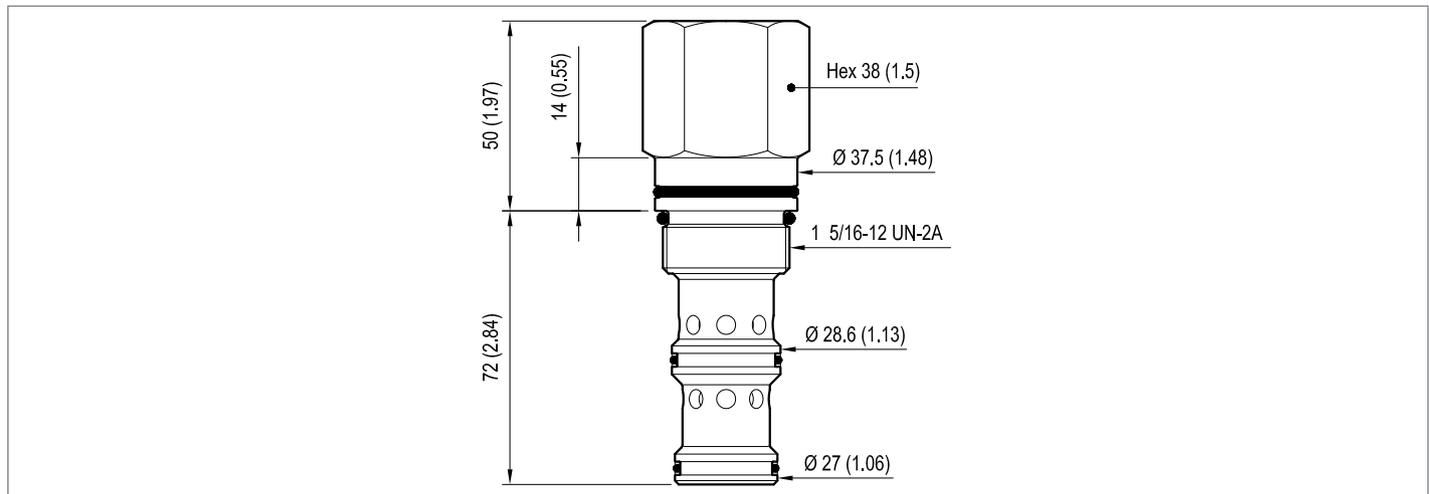
27 Common cavity, Size 16

Preferred types

Type	Material number
04772000270500A	R930000927
04772000271100A	R930000928
047720102705000	R930000956
047720102711000	R930000957

Type	Material number

Dimensions



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