

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

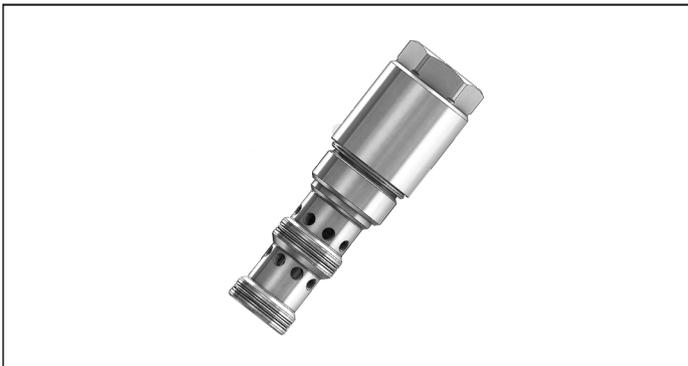
VDSA-16A

04.77.32 - X - 27 - Z

RE 18320-92

Edition: 03.2016

Replaces: 01.2010



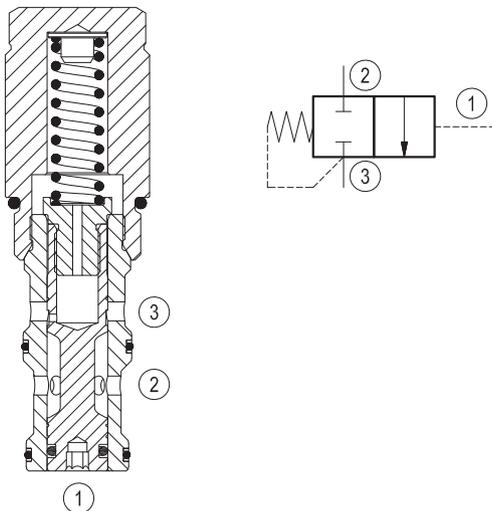
Technical data

Max. operating pressure	350 bar (5000 psi)
Max. flow	160 l/min. (43 gpm)
Max. internal leakage ¹⁾	170 cm ³ /min. (10 cu.in./min.)
Pilot displacement volume	1.2 cm ³ (0.05 cu.in.)
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	108 - 122 Nm (80 - 90 ft-lbs)
Weight	0.6 kg (1.32 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

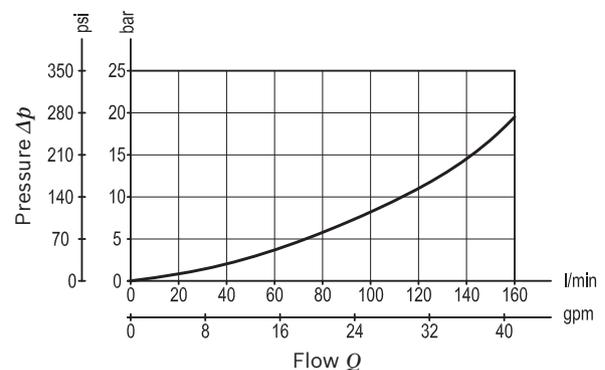
Description

Flow is blocked from 2 to 3 until the pressure at 1 rises to the selected spring setting. Upon reaching this pressure, the spool shifts upward, allowing flow from 2 to 3 until pressure at 1 drops below the set point. The spring chamber is drained to 3, thus any pressure at 3 is additive to the spring setting.

- 1) Measured at 210 bar (3000 psi)
- 2) Only external seals for 10 valves



Characteristic curve



Ordering code

04.77.32	X	27	Z	00	*
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Directional spool type, direct acting
external pilot internal drain

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	5.5 (80) ± 20%
11	11 (160) ± 10%

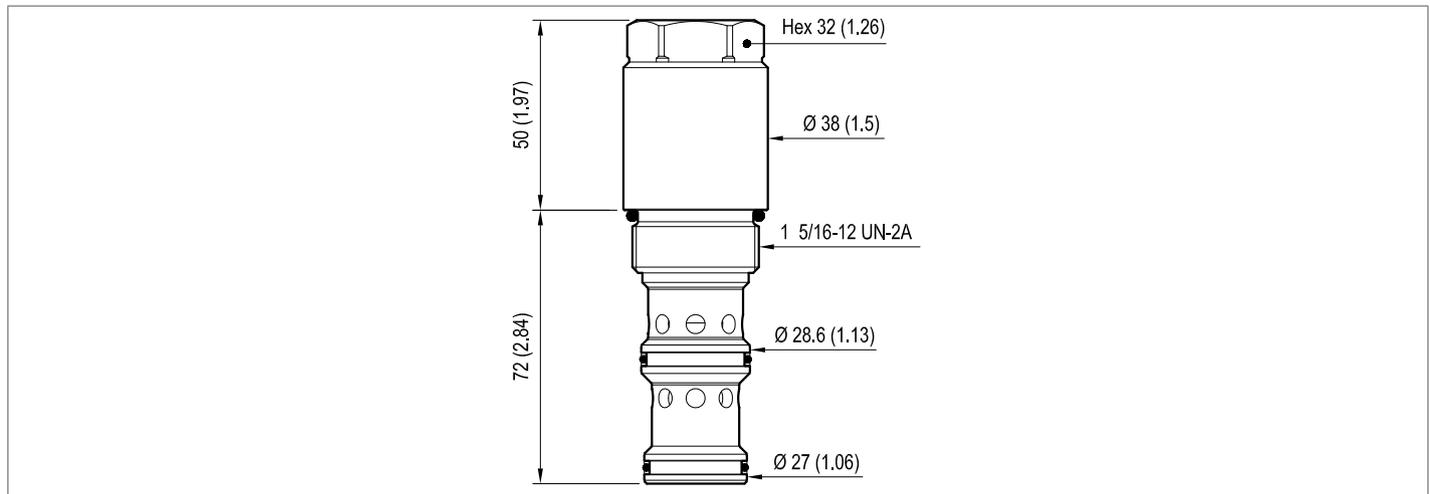
27 Common cavity, Size 16

Preferred types

Type	Material number
047732002705000	R930001157
047732002711000	R930001159
047732102705000	R930001162
047732102711000	R930001163

Type	Material number

Dimensions



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