

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

VDSD-16A

04.77.22 - X - 27 - Z

**RE 18320-80**

Edition: 03.2016

Replaces: 01.2010



#### Description

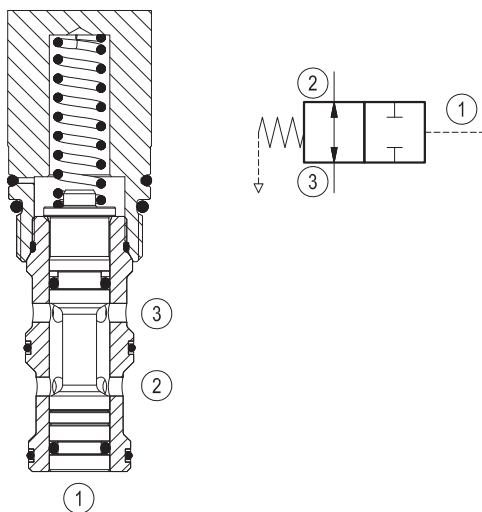
Flow is allowed bi-directionally between 2 and 3 until pressure at 1 rises to overcome the spring bias against the spool. When this bias pressure is surpassed, the spool shifts, blocking flow at both 2 and 3. The spring chamber is sealed and vented to atmosphere, allowing consistent shifting with only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

#### Technical data

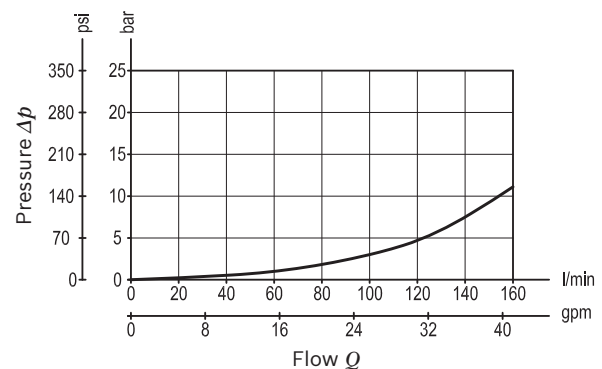
Max. operating pressure	350 bar (5000 psi)
Max. flow	160 l/min. (43 gpm)
Max. internal leakage <sup>1)</sup>	200 cm <sup>3</sup> /min. (12 cu.in./min.)
Pilot displacement volume	1.61 cm <sup>3</sup> (0.1 cu.in.)
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	108 - 122 Nm (80 - 90 ft-lbs)
Weight	0.67 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 <sup>2)</sup>	Code: RG16A3010530100 material no: R930001178
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm <sup>2</sup> /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

1) Measured at 200 bar (2900 psi)

2) Only external seals for 10 valves



#### Characteristic curve



Ordering code

04.77.22	X	27	Z	00	*
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Series 0/A to L  
unchanged performances and dimensions

Version and options standard

Directional spool type, direct acting  
external pilot external vent

O-Ring on pilot piston

00 No O-Ring

10 With O-Ring

27 Common cavity, Size 16

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

Preferred types

Type	Material number
047722002705000	R930000925
047722002711000	R930000926
047722102705000	R930000921
047722102711000	R930000922

Type	Material number

Dimensions

