

Logic element, pressure compensator  
with static load sense  
Common cavity, Size 16

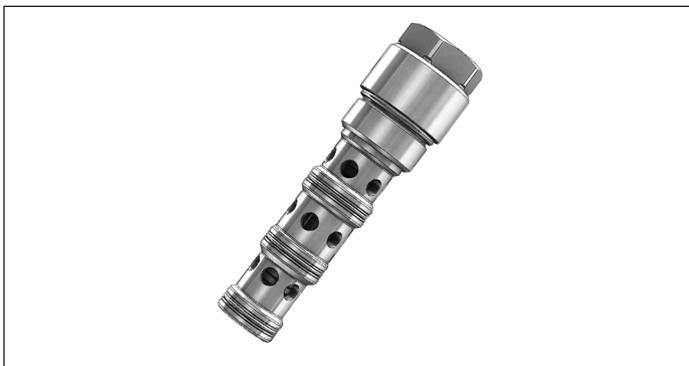
VRLA-16A-S

04.84.09.00.27 - Z

**RE 18321-88**

Edition: 03.2016

Replaces: 01.2010



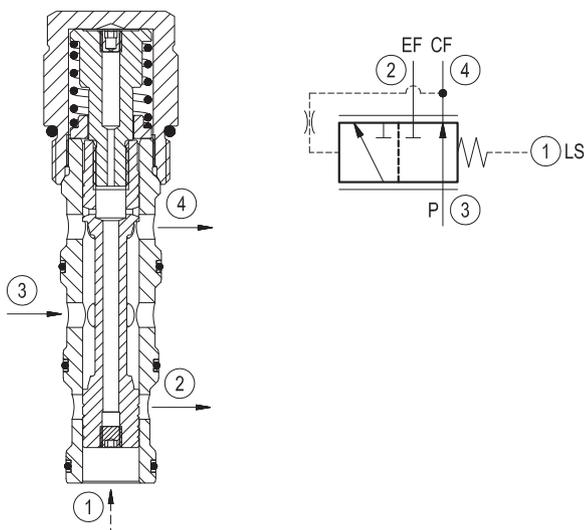
**Technical data**

Max. operating pressure	350 bar (5000 psi)
Max. inlet flow	160 l/min. (42 gpm)
Max. priority flow	140 l/min. (37 gpm)
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	108- 122 Nm (80 - 90 ft-lbs)
Weight	0.5 kg (1.1 lbs)
Cavity	CA-16A-4N (see data sheet 18325-70)
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit <sup>1)</sup>	Code: RG16A4010530100 material no: R930000973
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	No restrictions
Other Technical Data	See data sheet 18350-50

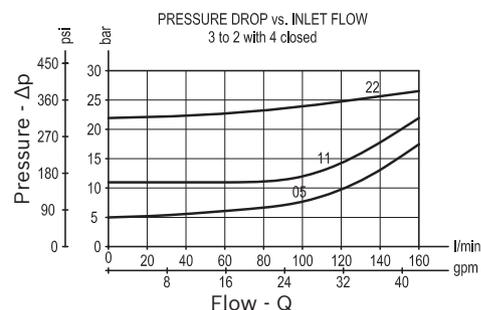
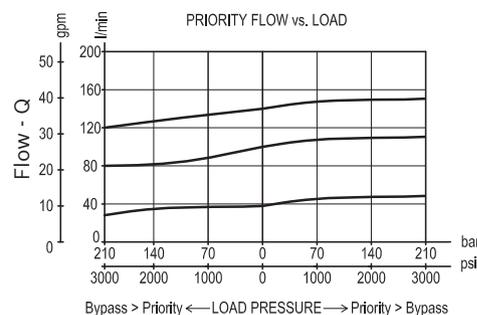
1) Only external seals for 10 valves

**Description**

The valve delivers priority flow, from 0 to max. available, on demand to port 4, while compensating for load changes downstream. In neutral, all input flow at 3 is given to the priority port 4. Pressure at 4 is applied to the spool against a spring force so that increasing pressure causes increasing by-pass of input flow to port 2. Load sense pressure at port 1, obtained between the downstream control and the load, assists the spring, and moves the spool back toward supplying priority flow. Comparison between priority outlet and LS pressure seeks a constant differential pressure over the control valve. As load and flow control change, the priority flow is increased or decreased to satisfy the demand establishing that differential.



**Characteristic curve**



**Ordering code**

<b>04.84.09.00</b>	<b>27</b>	<b>Z</b>	<b>00</b>	<b>*</b>
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Logic element, pressure compensator with static load sense

Series 0/A to L  
unchanged performances and dimensions

Version and options standard

**27** Common cavity, Size 16

SPRINGS	
	Bias spring bar (psi)
<b>05</b>	5.5 (80) ± 20%
<b>11</b>	11 (160) ± 15%
<b>22</b>	22 (320) ± 15%

**Preferred types**

Type	Material number
048409002705000	R930001078
048409002711000	R930001079
048409002722000	R930001080

Type	Material number

**Dimensions**

