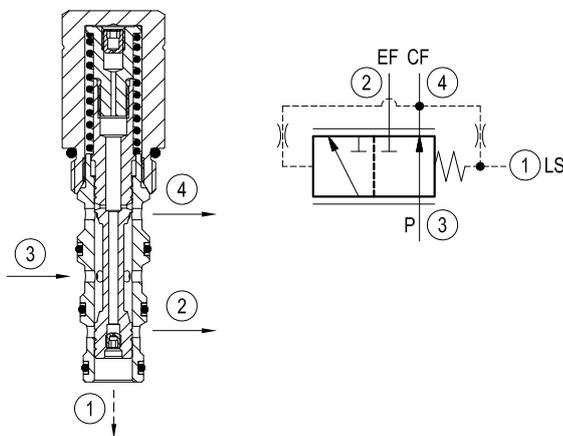


Logic element, pressure compensator with dynamic load sense

Common cavity, Size 10

VRLA-10A-D

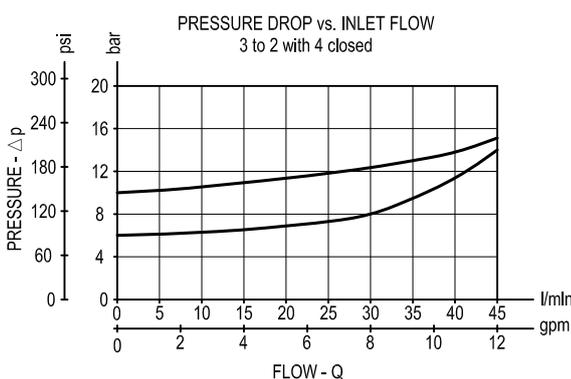
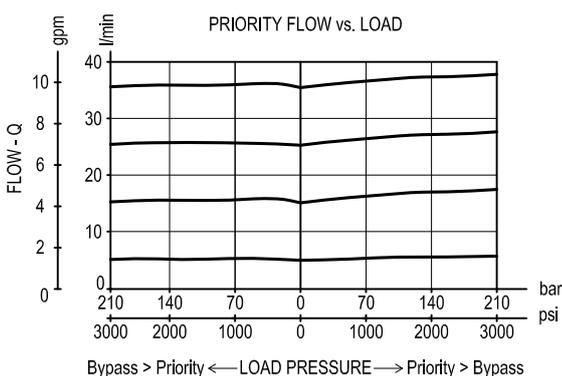
04.84.10 - X - 85 - Z



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. An orifice connects the priority outlet port and the spring chamber, giving a small pressure assist to the spring, enhancing response time to provide priority flow in the event that load sense pressure momentarily drops.

Performance

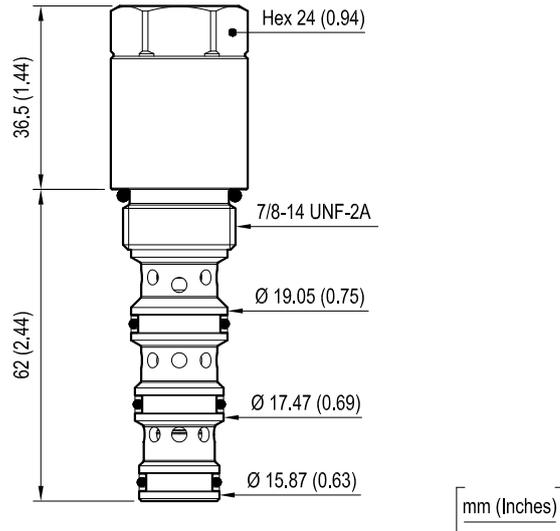


Technical data

Max. operating pressure	bar (psi)	350 (5000)
Max. intel flow	l/min. (gpm)	45 (12)
Max. priority flow	l/min. (gpm)	30 (8) for Z=05 version 40 (11) for Z=10 version
Fluid temperature range	°C (°F)	-30 to 100 (-22 to 212)
Installation torque	Nm (ft-lbs)	41-47 (30-35)
Weight	kg (lbs)	0.22 (0.49)
Cavity		CA-10A-4N see data sheet RE 18325-70
Seal kit (*)	code material no.	RG10A4010530100 R901111373
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE 18350-50

(*) Only external seals for 10 valves

Dimensions



mm (Inches)

Ordering code

04.84.10	X	85	Z	00	*
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Series 0/A to L
unchanged performances and dimensions

Version and options standard

Logic element, pressure compensator with dynamic load sense

LS orifice diameter mm (Inches)

= 05 0.5 (0.02)

= 06 0.6 (0.02)

= 08 0.8 (0.03)

= 09 0.9 (0.04)

Common cavity, Size 10

SPRINGS

Bias spring bar (psi)

= 05	for X=06 and X=09	5.5 (80) ± 20%
= 10	for X=05 and X=08	10 (145) ± 15%

Type	Material number
048410058510000	R930001195
048410068505000	R930001193
048410088510000	R930001196
048410098505000	R930001194

Type	Material number