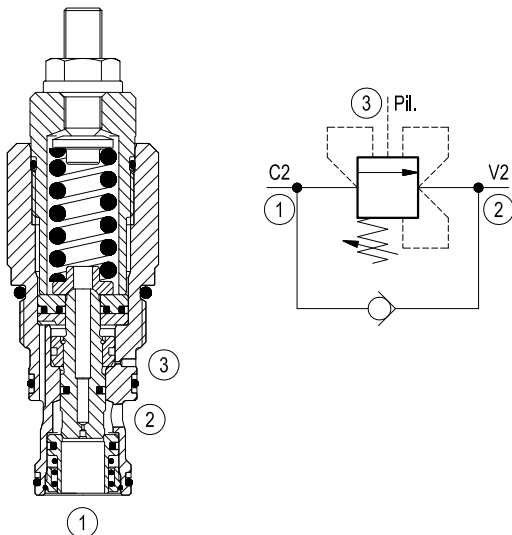


Counterbalance, relief compensated poppet type differential area

Common cavity, Size 16

VBSP-16A

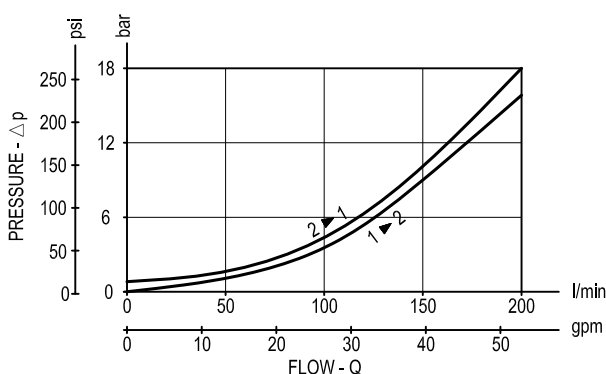
04.54.10 - X - 27 - Z



Description

When pressure at 2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from 2 to 1. When load pressure at 1 rises above the pressure setting, the direct-acting, differential area relief function is activated and flow is relieved from 1 to 2. With pilot pressure at 3, the pressure setting is reduced in proportion to the stated ratio of the valve, until fully open with free-flow from 1 to 2. The spring chamber is drained to 2. The valve applies a balanced piston design allowing relief operation at the valve setting independent of back-pressure at 2. However, the piloted opening of the valve remains subject to additive pressure at port 2.

Performance



Technical data

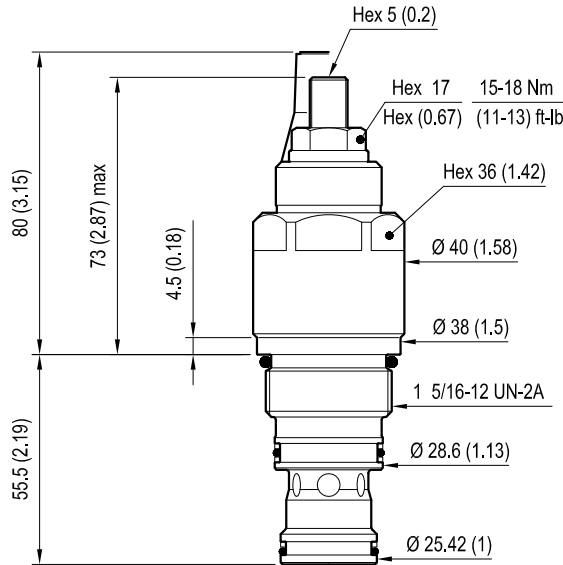
Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	200 (53)
Max. internal leakage (*)	drops/min.	15
Fluid temperature range	°C (°F)	-30 to 100 (-22 to 212)
Installation torque	Nm (ft-lbs)	108-122 (80-90)
Weight	kg (lbs)	0.82 (1.81)
Cavity		CA-16A-3C see data sheet RE 18325-70
Seal kit (**)	code material no.	RG16A9010530100 R930001200
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

Pressure setting: at least 1.3 times the load induced pressure.

(*) At 70% of pressure setting

(**) Only external seals for 10 valves

Dimensions



OPTION
 Tamper resistant cap
 ordering code 11.04.23.004
 Mat. no. R930001411

[mm (Inches)]

Ordering code

04.54.10	X	27	Z	00	*
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Counterbalance, relief compensated poppet type differential area

Pilot ratio
 = 03 4:1

Common cavity, Size 16

Series 0/A to L
 unchanged performances and dimensions

Version and options standard

	SPRINGS		
	Adj. press. range bar (psi)	Pressure increase bar/turn (psi/ turn)	Std. setting bar (psi) Q=5 l/min
= 20	70-210 (1000-3000)	70 (1015)	200 (2900)
= 35	140-350 (2000-5000)	108 (1566)	350 (5000)

Note: Special settings available. Contact factory authorized representative for ordering code

Type	Material number
045410032720000	R901109804
045410032735000	R901109805

Type	Material number