

Pressure reducing and relieving, pilot operated spool type Common cavity, Size 10

VRPX-10A

04.93.07 - X - 85 - Z

RE 18318-56

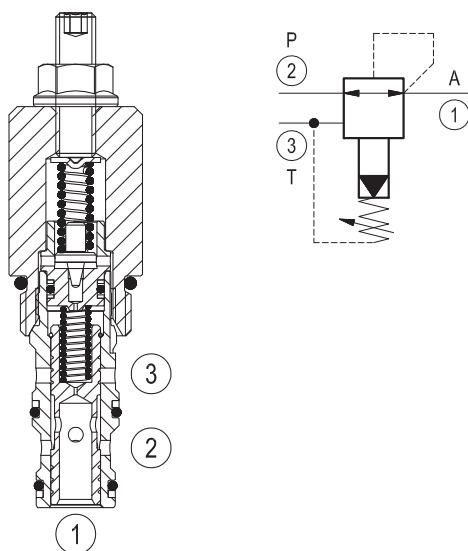
Edition: 03.2016

Replaces: 07.2012



Description

Initially, flow passes freely from 2 to 1. When the pressure at 1 exceeds the pressure setting, the conical poppet in the upper, pilot stage is lifted from its seat. This allows the main-stage piston to shift, restricting input flow at 2. This increases the pressure drop through the valve and maintains consistent pressure at 1. The spring chamber is drained at 3 to prevent a build-up of back-pressure against the spool. Additionally, if pressure at 1 rises above the pressure setting, flow is relieved to 3 until the setting is re-attained.



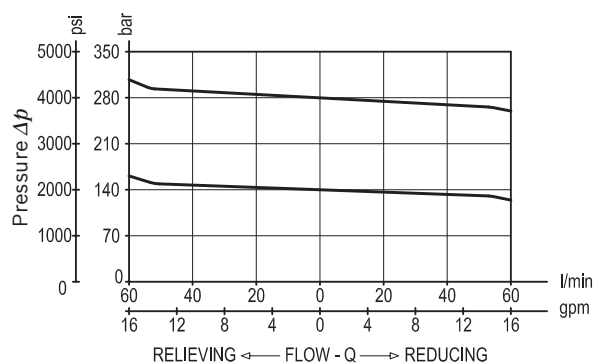
Technical data

Max. operating pressure port 2 (P)	350 bar (5000 psi)
Max. pressure admitted port 1 (A)	280 bar (4000 psi)
Max. flow	60 l/min (16 gpm)
Standard internal pilot orifice diameter	0.6 mm
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	41 - 47 Nm (30 - 35 ft-lbs)
Weight ¹⁾	0.2 kg (0.44 lbs)
Cavity	CA-10A-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: RG10A3010520100 material no: R901111369
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

1) Standard version X=03 type

2) Only external seals for 10 valves

Characteristic curve



Ordering code

04.93.07

X

85

Z

00

*

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) (reduc mode)
for X= 03	05 25-100 (360-1450)	31 (450)	50 (725)
	10 35-140 (500-2000)	48 (696)	100 (1450)
	20 70-280 (1000-4000)	88 (1276)	200 (2900)
for X= 04	35 35-350 (500-5000)	68 (986)	350 (5000)

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Adjustments

03 Leakproof hex. socket screw

04 Handknob and locknut

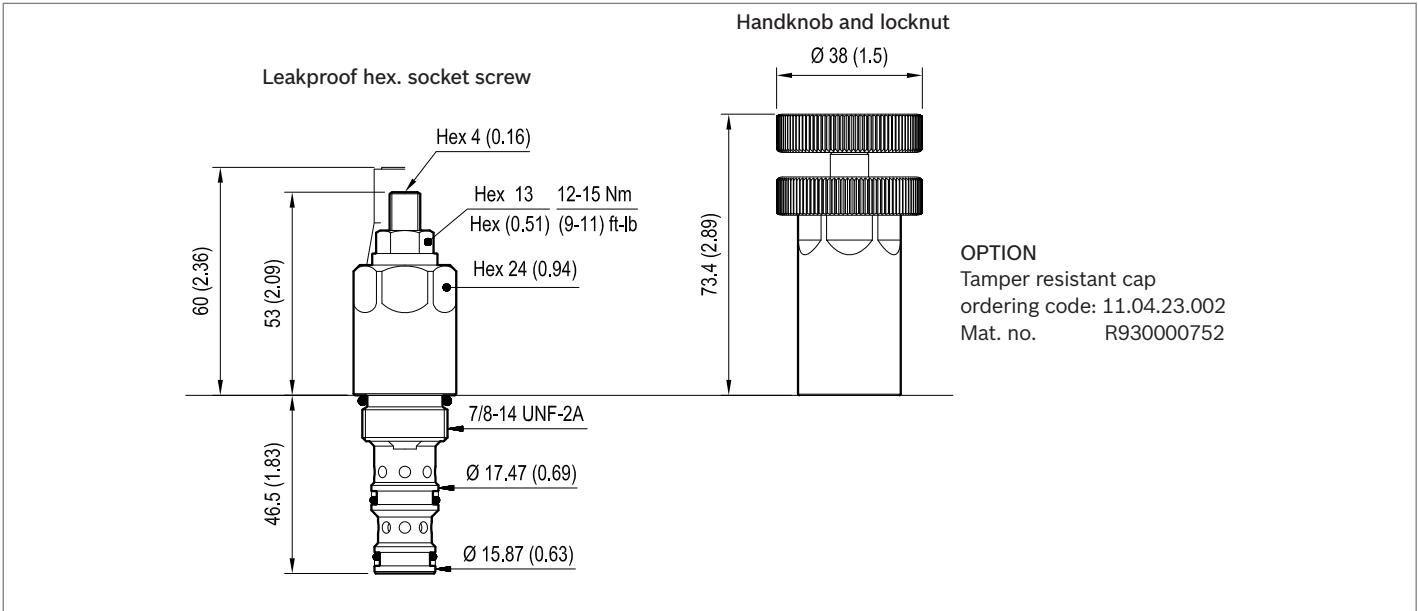
85 Common cavity, Size 10

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

Preferred types

Type	Material number	Type	Material number
049307038505000	R930006982		
049307038510000	R901104118		
049307038520000	R901106468		
049307048535000	R930005596		

Dimensions



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