rexroth
A Bosch Company

Pressure reducing, pilot operated spool type

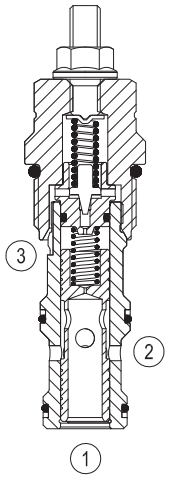
Common cavity, Size 12

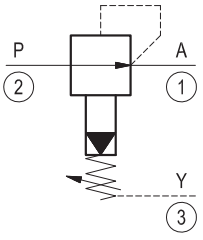
VRPP-12A

04.93.08 - X - 57 - Z

RE 18318-51
Edition: 01.2019
Replaces: 11.2018

Description
Initially, flow passes freely from 2 to 1. When the pressure at 1 exceeds the pressure setting, the valve acts to restrict 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.

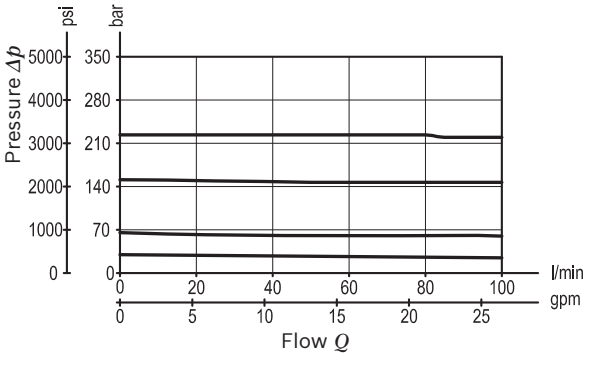




Technical data	
Max. operating pressure port 2 (P)	350 bar (5000 psi)
Max. pressure admitted port 1 (A)	280 bar (4000 psi)
Max. flow	100 l/min (26 gpm)
Standard internal pilot orifice diameter	0.6 mm
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	81 - 95 Nm (60 - 70 ft-lbs)
Weight	0.4 kg (0.88 lbs)
MTTFD	150 years see RE18350-51
Cavity	CA-12A-3N (see data sheet 18325-70)
Lines bodies and standard assemblies	Please refer to section “Hydraulic integrated circuit” or consult factory
Seal kit[1)]	Code: RG12A3010520100
	material no: R930000941
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm²/s (cSt)
Recommended degree of fluid contamination	Nominal value max. 10µm (NAS 8) / ISO 4406 20/18/15
Installation position	No restrictions
Other Technical Data	See data sheet 18350-50

1) Only external seals for 10 valves

Characteristic curve



Ordering code

04.93.08	X	57	Z	00	*

Series 0/A to L
unchanged performances and dimensions

Pressure reducing,
pilot operated spool type

Version and options standard

Adjustments

03 Leakproof hex. socket screw

57 Common cavity, Size 12

	SPRINGS		
	Adj. press. range bar (psi)	Pressure increase bar/turn (psi/turn)	Std. setting bar (psi) (reduc mode)
05	20-60 (290-870)	32 (464)	50 (725)
10	35-140 (508-2000)	48 (696)	100 (1450)
20	70-280 (1000-4000)	88 (1276)	200 (2900)
35	140-350 (2000-5000)	140 (2030)	280 (4000)

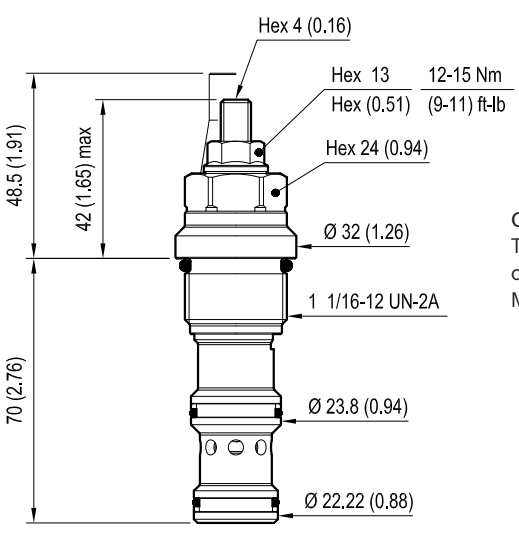
Note: Special settings available. Contact factory authorized representative for ordering code.

Preferred types

Type	Material number
049308035705000	R930069792
049308035710000	R901109737
049308035720000	R901109738

Type	Material number
049308035735000	R901109739

Dimensions



OPTION
Tamper resistant cap
ordering code: 11.04.23.002
Mat. no. R930000752