

Relief, pilot operated spool type

Common cavity, Size 16

VSPN-16A



Description

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the conical, pilot-stage poppet from its seat. This action exhausts oil above the mainstage piston (spool type), allowing it to shift and provide relief flow through 2 to tank. Pressure at 2 is additive to the relief setting of the valve. Pilot operation is protected from contamination by a filter screen at the bottom of the main piston.

04.12.11 - X - 27 - Z

RE 18318-10 Edition: 03.2016 Replaces: 05.2010

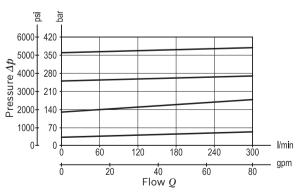
Technical data	
Max. operating pressure port 1 (P)	420 bar (6000 psi)
Max. pressure admitted port 2 (T)	140 bar (2000 psi)
Flow range	8 - 300 l/min (2 - 79 gpm)
Max. internal leakage ¹⁾	350 cm ³ /min. (21 cu.in./min.)
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	108 - 122 Nm (80 - 90 ft-lbs)
Weight ²⁾	0.45 kg (0.99 lbs)
Cavity	CA-16A-2N (see data sheet 18325-70)
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit ³⁾	Code: RG16A2010520100
	material no: R901111386
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 19/17/14
Installation position	No restrictions
Other Technical Data	See data sheet 18350-50

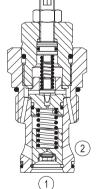
1) Measured at 200 bar (2900 psi)

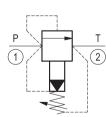
2) Standard version X=03 type

3) Only external seals for 10 valves

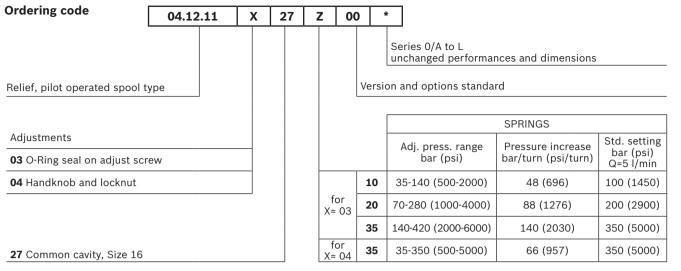
Characteristic curve









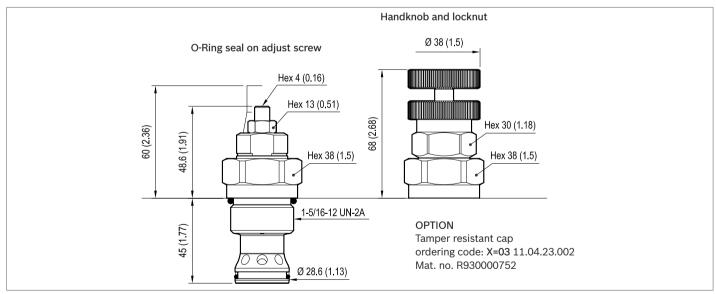


Note: Special settings available. Contact factory authorized representative for ordering code.

Preferred types

Туре	Material number	Туре	Material number
041211032710000	R930001025		
041211032720000	R930001026		
041211032735000	R930001027		
041211042735000	R930001024		

Dimensions



Bosch Rexroth Oil Control S.p.A.

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