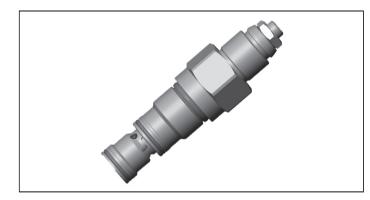


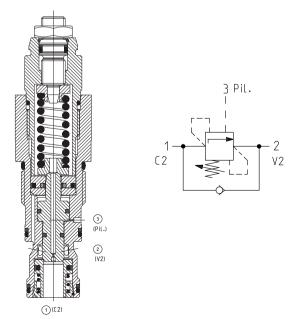
Counterbalance, standard poppet type differential area Common cavity, Size 12

VBSN-12A



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, and any back-pressure at 2 is additive to the pressure setting in all functions. Valve design prevents spring going solid and complete unscrewing during adjusting.



04.52.28 - X - 57 - Z

RE 18320-03

Edition: 02.2023 Replaces: 05.2022

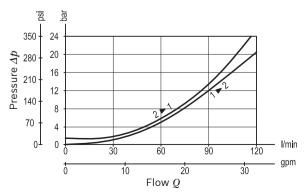
Technical data		
Max. operating pressure	350 bar (5000 psi)	
Max. flow	120 l/min (32 gpm)	
Max. internal leakage ¹⁾	15 drops/min.	
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)	
Installation torque	81 - 95 Nm (60 - 70 ft-lbs)	
Weight	0.39 kg (0.86 lbs)	
MTTFD	150 years see RE 18350-51	
Cavity	CA-12A-3C (see data sheet 18325-70)	
Adjustment	according to ISO 4413 with sealed adjustment screw to prevent oil leakage during adjustment	
Salt spray test	500h according to DIN EN ISO 9227:2017-07	
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory	
Seal kit ²⁾	Code: RG12A9010520100	
	material no: R901111379	
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	

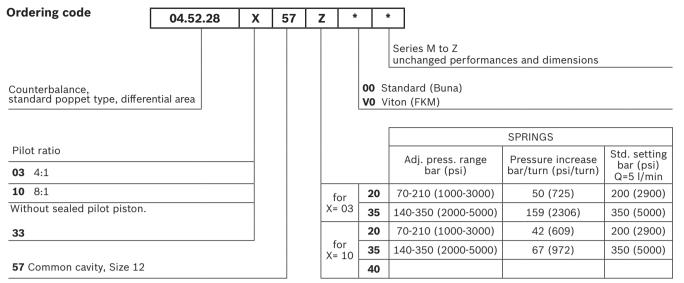
Pressure setting: at least 1.3 times the load induced pressure and maximum 1.5 times catalogue max nominal setting.

1) At 70% of pressure setting

2) Only external seals for 10 valves

Characteristic curve



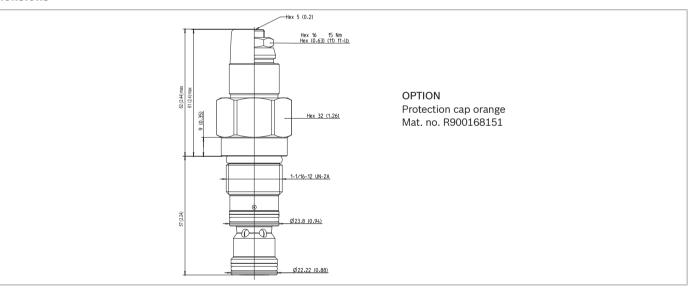


Preferred types

Note: Special settings available with optional tamperpr	roof cap.
Contact factory authorized representative for ordering	code.

Туре	Material number	Туре	Material number
04522803572000M	R930081269	04522810574000M	R930081275
04522803573500M	R930081270		
04522810572000M	R930081273		
04522810573500M	R930081274		

Dimensions



Bosch Rexroth Oil Control S.p.A.

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