

Counterbalance, relief compensated poppet type differential area Common cavity, Size 16

VBSP-16A



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. 04.54.10 - X - 27 - Z

RE 18320-09

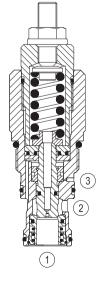
Edition: 02.2019 Replaces: 03.2016

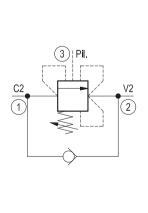
Technical data		
Max. operating pressure	350 bar (5000 psi)	
Max. flow	200 l/min (53 gpm)	
Max. internal leakage ¹⁾	15 drops/min.	
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)	
Installation torque	108 - 122 Nm (80 - 90 ft-lbs)	
Weight	0.82 kg (1.81 lbs)	
Cavity	CA-16A-3C (see data sheet 18325-70)	
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory	
Seal kit ²⁾	Code: RG16A9010530100	
	material no: R930001200	
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.

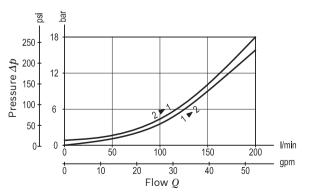
1) At 70% of pressure setting

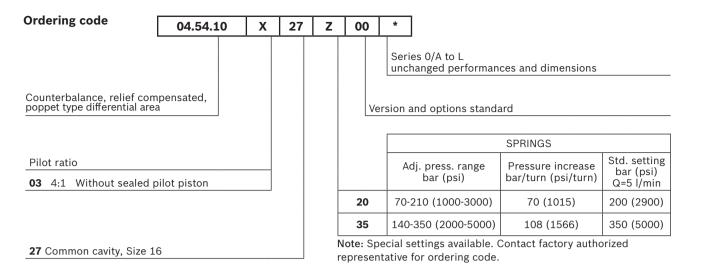
2) Only external seals for 10 valves





Characteristic curve

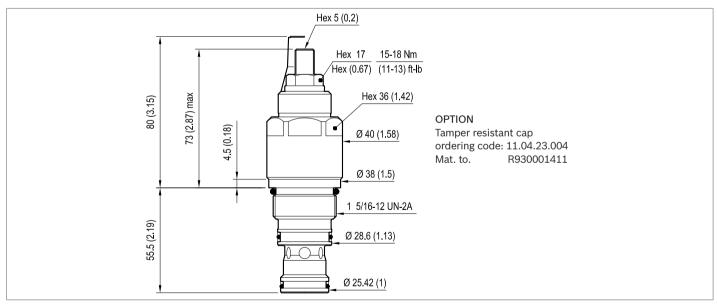




Preferred types

Туре	Material number	Туре	Material number
045410032720000	R901109804		
045410032735000	R901109805		

Dimensions



Bosch Rexroth Oil Control S.p.A.

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