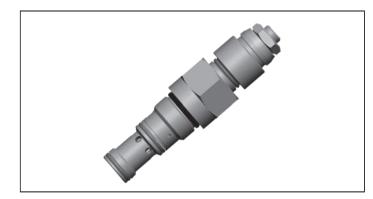


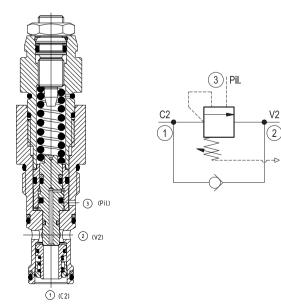
Counterbalance, vented guided poppet type Common cavity, Size 10

VBST-10A



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, 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 vented to atmosphere allowing operation of all functions independent of back-pressure at 2. Valve design prevents spring going solid and complete unscrewing during adjusting.



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RE 18320-12

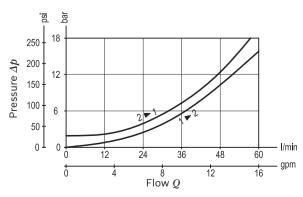
Edition: 07.2023 Replaces: 01.2021

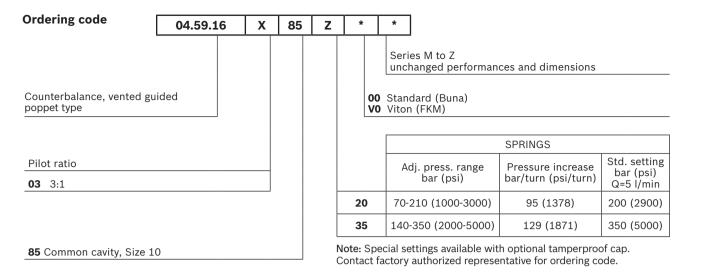
Technical data			
Max. operating pressure	350 bar (5000 psi)		
Max. flow	60 l/min (16 gpm)		
Max. internal leakage ¹⁾	15 drops/min.		
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)		
Installation torque	41 - 47 Nm (30 - 35 ft-lbs)		
Weight	0.21 kg (0.46 lbs)		
MTTFD	150 years see RE 18350-51		
Cavity	CA-10A-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: RG10A9010520100		
	material no: R901111367		
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

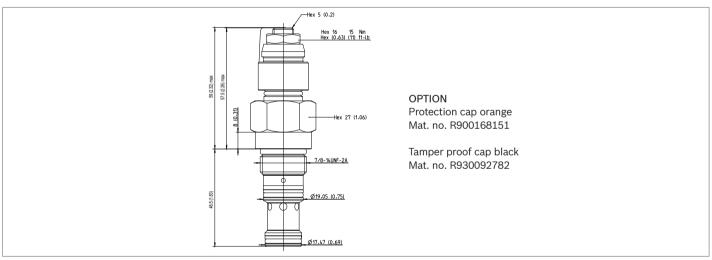




Preferred types

Туре	Material number	Туре	Material number
04591603852000M	R930081330		
04591603853500M	R930081331		

Dimensions



Bosch Rexroth Oil Control S.p.A.

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