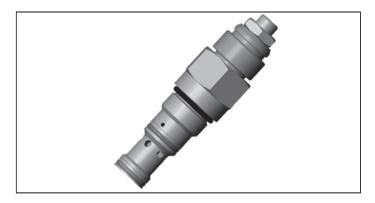


Counterbalance, standard poppet type differential area Common cavity, Size 10

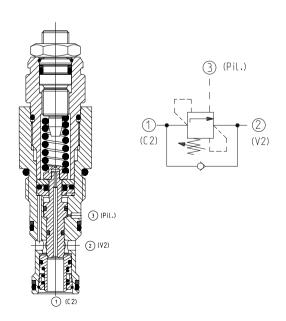
VBSN-10A 04.52.31 - X - 85 - Z

RE 18320-02Edition: 07.2023
Replaces: 05.2022



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.

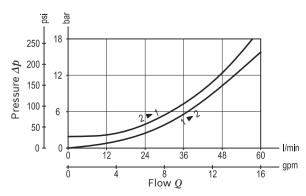


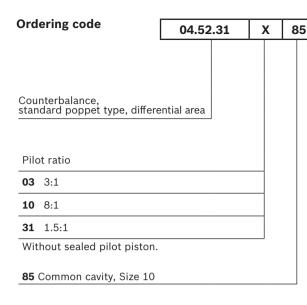
Technical data	
Max. operating pressure	350 bar (5000 psi)
Max. flow	60 l/min (16 gpm)
Max. internal leakage ¹⁾	15 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	41 - 47 Nm (30 - 35 ft-lbs)
Weight	0.2 kg (0.44 lbs)
MTTFD	150 years see RE 18350-51
Cavity	CA-10A-3C (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 mm ² /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
Dragging potting at least 1.1	times the lead induced pressure and

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





Z Series M to Z unchanged performances and dimensions 00 Standard (Buna) V0 Viton (FKM) **SPRINGS** Std. setting Adj. press. range Pressure increase bar (psi) bar/turn (psi/turn) bar (psi) Q=5 I/min 20 70-210 (1000-3000) 135 (1958) 200 (2900) for X= 03 35 140-350 (2000-5000) 196 (2842) 350 (5000) 20 70-210 (1000-3000) 52 (754) 200 (2900) for X= 10 35 140-350 (2000-5000) 89 (1291) 350 (5000) for 140-350 (2000-5000) 89 (1291) 350 (5000) 35 X = 31

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

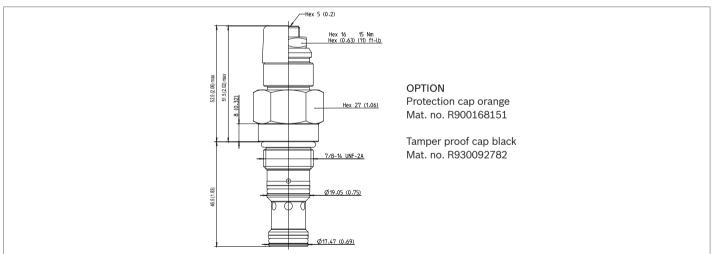
Preferred types

2

Туре	Material number
04523131853500M	R930080592
04523103852000M	R930081264
04523103853500M	R930081266
04523110852000M	R930081267

Туре	Material number	
04523110853500M	R930081268	

Dimensions



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