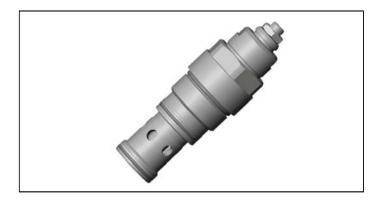


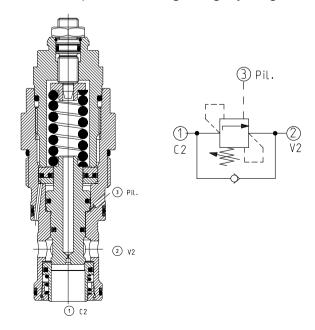
# Counterbalance, standard poppet type differential area Common cavity, Size 20

## VBSN-20A



### 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.



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#### RE 18320-05

Edition: 01.2021 Replaces: 06.2020

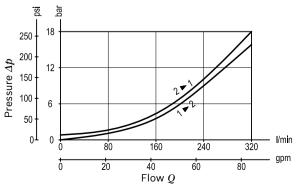
Technical data	
Max. operating pressure	350 bar (5000 psi)
Max. flow	320 l/min (85 gpm)
Max. internal leakage <sup>1)</sup>	15 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	128 - 149 Nm (95 - 110 ft-lbs)
Weight	1.12 kg (2.5 lbs)
MTTFD	150 years see RE 18350-51
Cavity	CA-20A-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 <sup>2)</sup>	Code: RG20A9010530100
	material no: R90111397
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

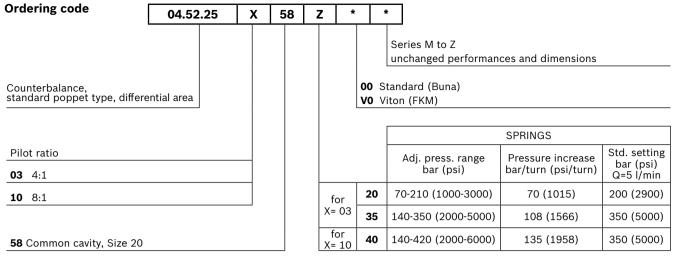
Pressure setting: at least 1.3 times the load induced pressure and maximum 1.5 times catalogue max nominal setting.

1) At 70% of pressure setting

2) Only external seals for 10 valves

#### **Characteristic curve**





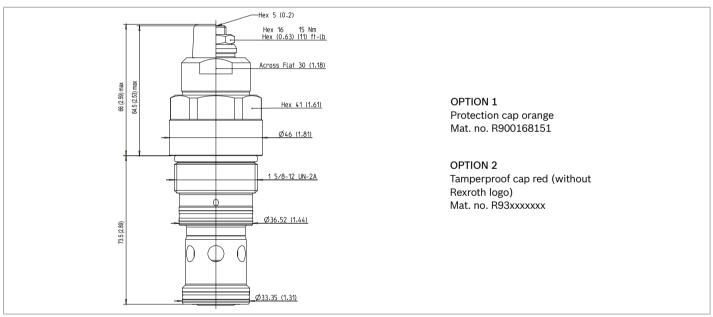
**Note:** Special settings available with optional tamperproof cap. Contact factory authorized representative for ordering code.

#### **Preferred types**

Туре	Material number	1
04522503582000M	R930081294	
04522503583500M	R930081295	
04522510584000M	R930081296	

Туре	Material number

#### Dimensions



#### Bosch Rexroth Oil Control S.p.A.

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