

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

## VBSZ-20A



## Description

When pressure at 2 rises above the check spring bias pressure, the seat is pushed away from the piston and flow is allowed from 2 to 1. Reverse flow is locked, unless the pilot pressure at 3 rises above the piston spring bias pressure (adjustable). Any back-pressure at 2 is additive to the pressure setting. Valve design prevents spring going solid and complete unscrewing during adjusting.



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### RE 18319-99

Edition: 07.2023 Replaces: 01.2021

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	Code: RG20A9010530100		
	material no: R901111397		
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

## Characteristic curve





#### **Preferred types**

Туре	Material number	Туре	Material number
04524127582000M	R930081387		

#### Dimensions



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

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