

Counterbalance, standard poppet type differential area, for motor applications Sun cavity interchange, T-17A

VBSN-16U-RF



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. Any back-pressure at 2 is additive to the pressure setting in all functions. The special design of the poppet allows low delta P during relief function and makes the valve especially suitable for hydraulic motors control. Valve especially designed for motor applications, where it is requested a low delta P during relief function.

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RE 18320-31 Edition: 03.2016 Replaces: 07.2015

Technical data		
Max. operating pressure	420 bar (6000 psi)	
Max. flow	240 l/min (63 gpm)	
Max. internal leakage ¹⁾	5 cm³/min. (0.31 cu.in./min.)	
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)	
Installation torque	200 - 215 Nm (147 - 159 ft-lbs)	
Weight	0.85 kg (1.87 lbs)	
Cavity	SUN T-17A	
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory	
Seal kit ²⁾	Code: RG16U9020110100	
	material no: R930000995	
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
04524710473500A	R930056511		

Dimensions



Bosch Rexroth Oil Control S.p.A.

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