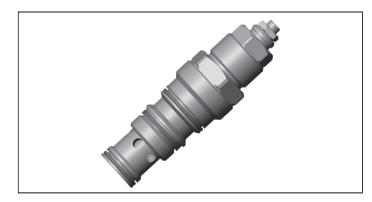


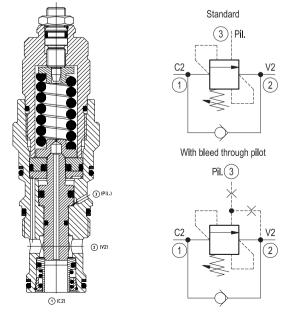
# Counterbalance, standard poppet type differential area, counterclockwise adjustment SUN cavity interchange, T-17A

## VBSN-16U-RS



### 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 (turn counterclockwise to increase setting - turn clockwise to decrease setting), the directacting, 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. Valve design prevents spring going solid and complete unscrewing during adjusting.



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RE 18320-19

Edition: 05.2022 Replaces: 06.2019

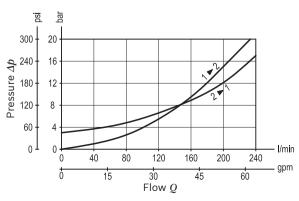
Technical data		
Max. operating pressure	420 bar (6000 psi)	
Max. flow	240 l/min (63 gpm)	
Max. internal leakage <sup>1)</sup>	15 drops/min.	
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)	
Installation torque	200 - 215 Nm (148 - 159 ft-lbs)	
Weight	0.8 kg (1.76 lbs)	
MTTFD	150 years see RE 18350-51	
Cavity	SUN T-17A	
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: RG16U9020110100	
	material no: R930000995	
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm <sup>2</sup> /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	

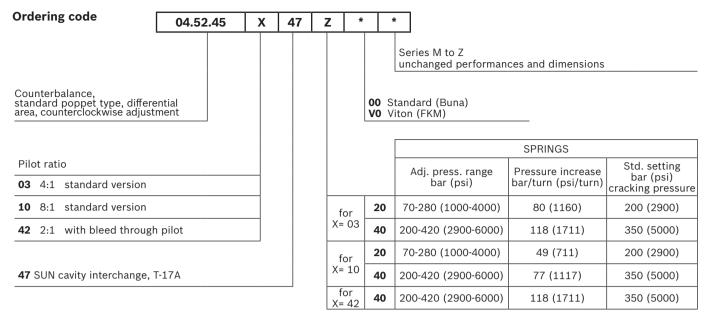
Pressure setting: at least 1.3 times the load induced pressure and maximum 1.5 times catalogue max nominal setting.

1) At 70% of pressure setting

2) Only external seals for 10 valves

#### **Characteristic curve**



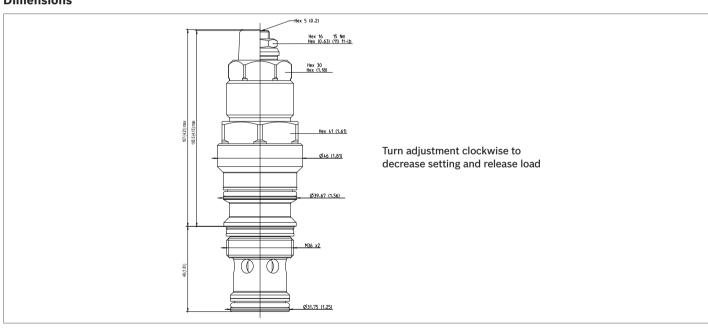


Note: Special settings available with optional tamperproof cap. Contact factory authorized representative for ordering code.

#### **Preferred types**

Туре	Material number	Туре	Material number
04524503472000M	R930081290	04524510474000M	R930081293
04524503474000M	R930081291	04524542474000M	R930081374
04524510472000M	R930081292		

#### Dimensions



Bosch Rexroth Oil Control S.p.A.

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