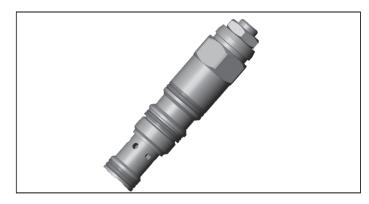


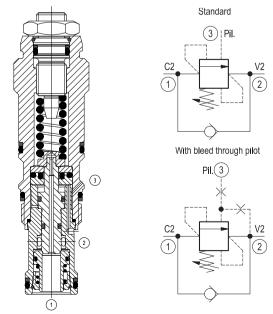
# Counterbalance, standard poppet type differential area, counterclockwise adjustment SUN cavity interchange, T-11A

## VBSN-08U-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.



04.52.43 - X - 20 - Z

RE 18320-17

Edition: 02.2023 Replaces: 05.2022

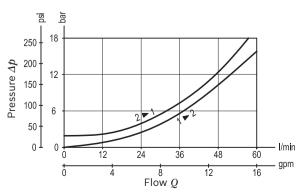
Technical data		
Max. operating pressure	350 bar (5000 psi)	
Max. flow	60 l/min (16 gpm)	
Max. internal leakage <sup>1)</sup>	5 drops/min.	
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)	
Installation torque	40 - 50 Nm (30 - 37 ft-lbs)	
Weight	0.19 kg (0.42 lbs)	
MTTFD	150 years see RE 18350-51	
Cavity	SUN T-11A	
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: RG08U9020110100	
	material no: R901193388	
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	

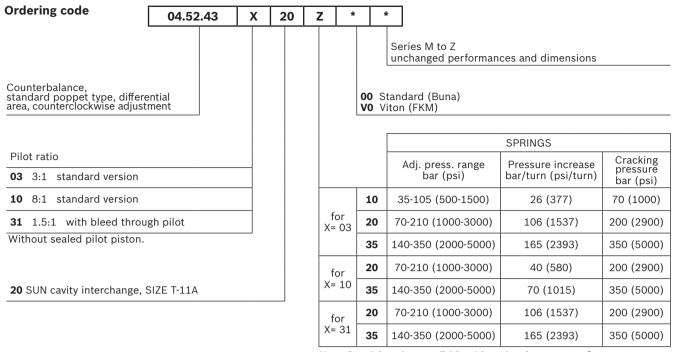
Pressure setting: at least 1.3 times the load induced pressure and maximum 1.5 times catalogue max nominal setting.

1) At 70% of pressure setting; 15 drops/min. with x=10

2) Only external seals for 10 valves

#### **Characteristic curve**



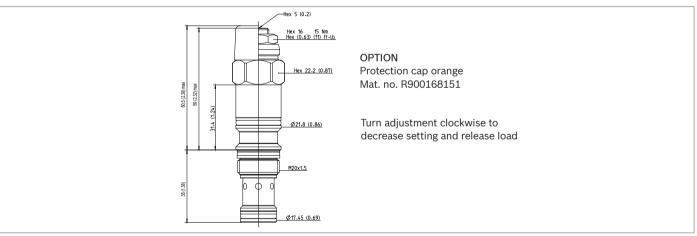


Note: Special settings available with optional tamperproof cap. Contact factory authorized representative for ordering code.

#### **Preferred types**

Туре	Material number	Туре	Material number
04524303201000M	R930081232	04524310203500M	R930081249
04524303202000M	R930081234	04524331202000M	R930081367
04524303203500M	R930081237	04524331203500M	R930081369
04524310202000M	R930081247		

#### Dimensions



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

Via Leonardo da Vinci 5 P.O. Box no. 5 41015 Nonantola – Modena, Italy Tel. +39 059 887 611 Fax +39 059 547 848 compact-hydraulics-cv@boschrexroth.com www.boschrexroth.com/compacthydraulics © This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth Oil Control S.p.a.. It may not be reproduced or given to third parties without its consent. The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging. Subject to change.