

Counterbalance, relief compensated poppet type differential area, counterclockwise adjustment Sun cavity interchange, T-11A

VBSP-08U-RS 04.54.15 - X - 20 - Z

4.54.15 - X - 20 - Z Edition: 07.2019
Replaces: 02.2019



## **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 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 valve applies a balanced piston design allowing relief operation at the valve setting independent of back-pressure at 2. However, the piloted opening of the valve remains subject to additive pressure at port 2.

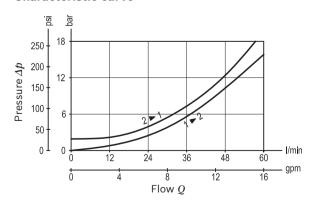
3	3) Pil.
(1)	

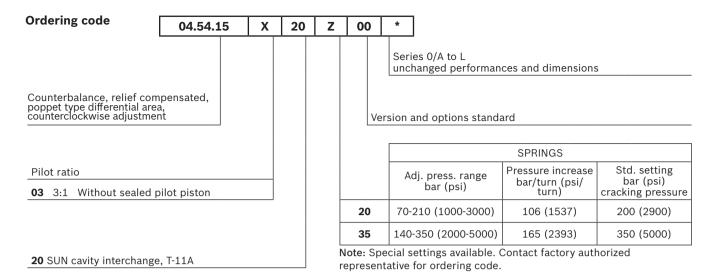
Technical data		
Max. operating pressure	350 bar (5000 psi)	
Max. flow	60 l/min (16 gpm)	
Max. internal leakage <sup>1)</sup>	5 drops/min.	
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)	
Installation torque	40 - 50 Nm (30 - 37 ft-lbs)	
Weight	0.19 kg (0.42 lbs)	
Cavity	SUN T-11A	
Lines bodies 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.

- 1) At 70% of pressure setting
- 2) Only external seals for 10 valves

## **Characteristic curve**



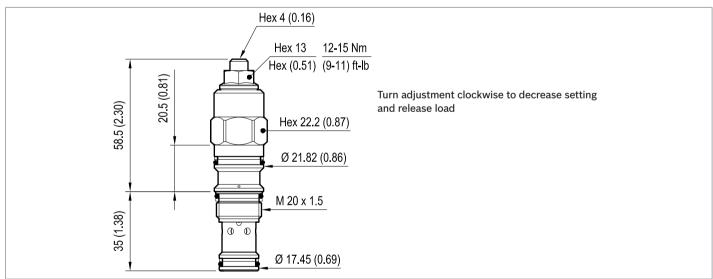


**Preferred types** 

Туре	Material number
045415032020000	R930006122
045415032035000	R930006123

Туре	Material number

## **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.