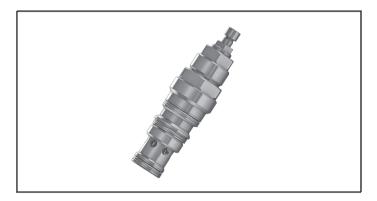


Counterbalance, relief compensated poppet type differential area, for motor applications Sun cavity interchange, T-17A

VBSP-16U-RF 04.54.19 - X - 47 - 7

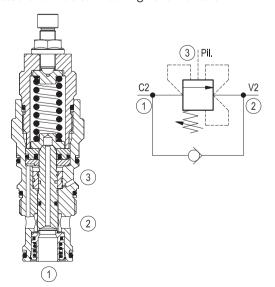
RE 18320-32Edition: 02.2019
Replaces: 03.2016



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. 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. 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.

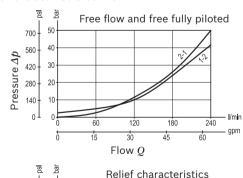


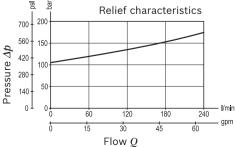
Technical data	
Max. operating pressure	350 bar (5000 psi)
Max. flow	240 l/min (63 gpm)
Max. internal leakage ¹⁾	15 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	200 - 215 Nm (147 - 159 ft-lbs)
Weight	0.8 kg (1.76 lbs)
Cavity	SUN T-17A
Line bodies and standard assemblies	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 mm ² /s (cSt)
Recommended deegre 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

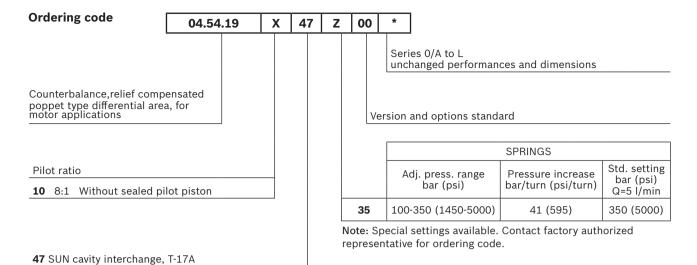
Pressure setting: at least 1.3 times the load induced pressure.

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

Characteristic curve





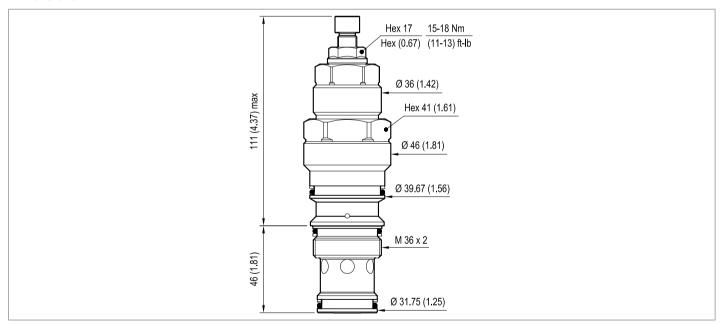


Preferred types

Туре	Material number
04541910473500A	R930056510

Туре	Material number
	_

Dimensions



Bosch Rexroth Oil Control S.p.A.

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