

Counterbalance, 4 port vented, poppet type external drain, counterclockwise adjustment
Sun cavity interchange, T-24A

VBSY-25U-RS

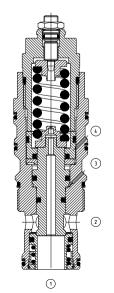
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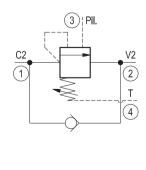
RE 18320-36Edition: 07.2023
Replaces: 01.2021



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, 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 spring chamber is vented to 4, allowing operation of all functions independent of back-pressure at 2. Any back-pressure at 4 is additive to the pressure setting in all functions. Valve design prevents spring going solid and complete unscrewing during adjusting.



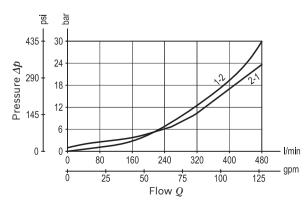


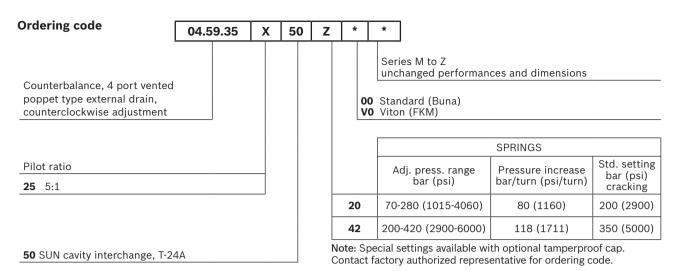
Technical data	
Max. operating pressure	420 bar (6090 psi)
Max. flow	480 l/min (127 gpm)
Max. internal leakage ¹⁾	15 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	475 - 500 Nm (352 - 370 ft-lbs)
Weight	1.7 kg (3.7 lbs)
MTTFD	150 years see RE 18350-51
Cavity	SUN T-24A
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
Seal kit ²⁾	Code: RG25U4020110100
	material no: R930049586
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /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





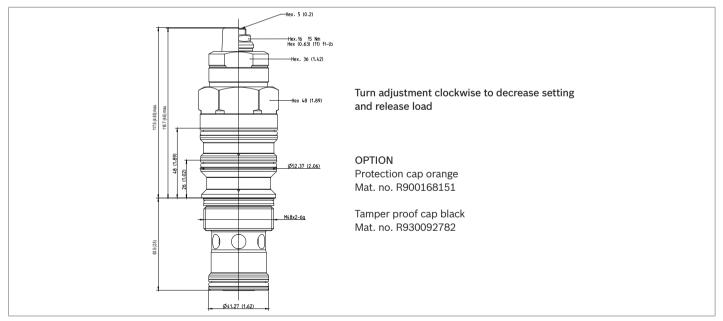
Preferred types

2

Туре	Material number
04593525502000M	R930080001
04593525504200M	R930080639

Туре	Material number
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Dimensions



Bosch Rexroth Oil Control S.p.A.

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