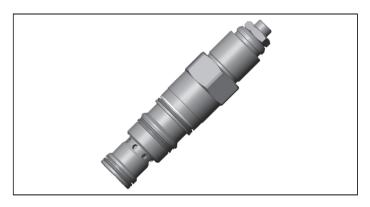


Counterbalance, standard poppet type differential area, counterclockwise adjustment SUN cavity interchange, T-2A

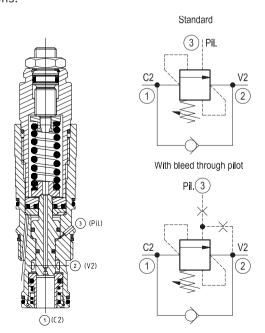
VBSN-12U-RS 04.52.44 - X - 86 - Z

RE 18320-18Edition: 02.2023
Replaces: 05.2022



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.

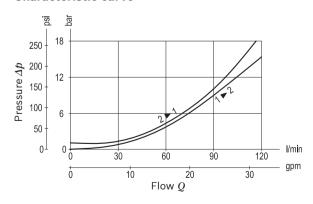


Technical data	
Max. operating pressure	350 bar (5000 psi)
Max. flow	120 l/min (32 gpm)
Max. internal leakage ¹⁾	15 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	60 - 70 Nm (44 - 52 ft-lbs)
Weight	0.37 kg (0.82 lbs)
Cavity	SUN T-2A
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit ²⁾	Code: RG12U9020110100
	material no: R930005599
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.

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

Characteristic curve



2

Ordering code 04.52.44 X 86 Z Series M to Z unchanged performances and dimensions Counterbalance, standard poppet type, differential area, counterclockwise adjustment 00 Standard (Buna) **V0** Viton (FKM) **SPRINGS** Pilot ratio Std. setting Adj. press. range Pressure increase bar (psi) bar (psi) bar/turn (psi/turn) 03 4:1 standard version cracking pressure standard version 70-210 (1000-3000) 40 (580) 200 (2900) **10** 8:1 20 for X= 03 35 **35** 8:1 140-350 (2000-5000) 125 (1813) 350 (5000) 42 2:1 with bleed through pilot 20 70-210 (1000-3000) 53 (769) 200 (2900) for Without sealed pilot piston. X= 10 35 79 (1146) 140-350 (2000-5000) 350 (5000) for 86 SUN cavity interchange, T-2A 35 X= 35 20 70-210 (1000-3000) 40 (580) 200 (2900) for X= 42 35 140-350 (2000-5000) 125 (1813) 350 (5000)

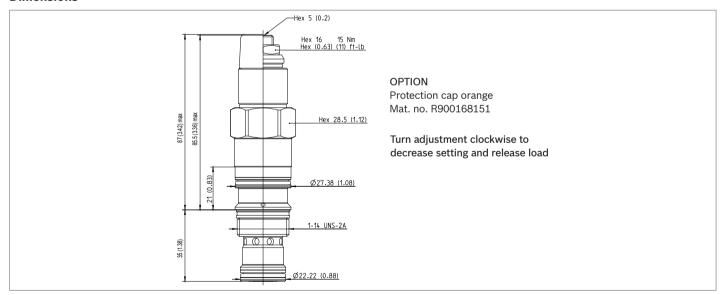
Preferred types

Туре	Material number
04524403862000M	R930081279
04524403863500M	R930081281
04524410862000M	R930081285
04524410863500M	R930081286

Material number
R930081487
R930081372
R930081373

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

Dimensions



Bosch Rexroth Oil Control S.p.A.

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