

Counterbalance, relief compensated poppet type differential area, counterclockwise adjustment Sun cavity interchange, T-17A

VBSP-16U-RS

04.54.17 - X - 47 - Z

RE 18320-22

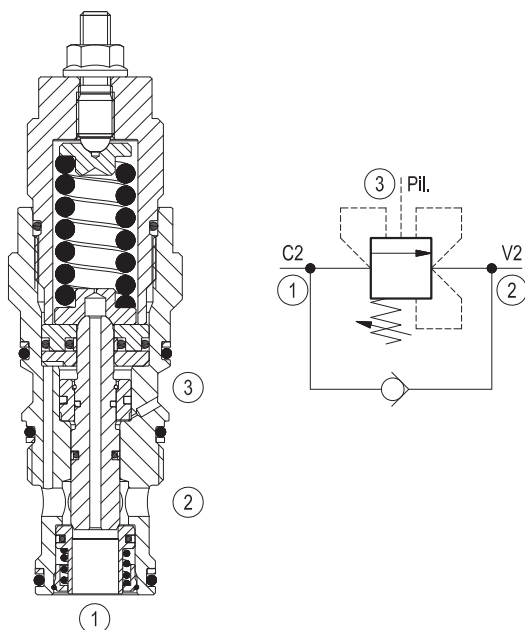
Edition: 02.2019

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 (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.



Technical data

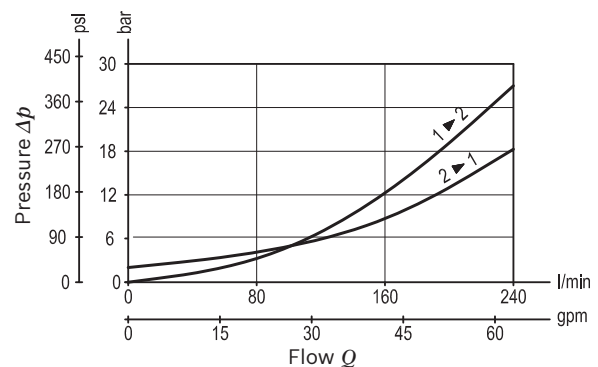
Max. operating pressure	420 bar (6000 psi)
Max. flow	240 l/min (63 gpm)
Max. internal leakage ¹⁾	15 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	200 - 215 Nm (147 - 159 ft-lbs)
Weight	0.8 kg (1.76 lbs)
Cavity	SUN T-17A
Lines bodies and standard assemblies	Please 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 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



Ordering code

04.54.17	X	47	Z	00	*
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Counterbalance, relief compensated,
poppet type differential area,
counterclockwise adjustment

Series O/A to L
unchanged performances and dimensions

Version and options standard

Pilot ratio
03 4:1 Without sealed pilot piston

47 SUN cavity interchange, T-17A

	SPRINGS		
	Adj. press. range bar (psi)	Pressure increase bar/turn (psi/turn)	Std. setting bar (psi) cracking pressure
20	70-280 (1000-4000)	80 (1160)	200 (2900)
40	200-420 (2900-6000)	118 (1711)	350 (5000)

Note: Special settings available. Contact factory authorized
representative for ordering code.

Preferred types

Type	Material number
045417034720000	R930000059
045417034740000	R930000060

Type	Material number

Dimensions

