

# Counterbalance, standard poppet type differential area, counterclockwise adjustment SUN cavity interchange, T-11A

VBSN-08U-RS 04.52.43 - X - 20 - Z

**RE 18320-17**Edition: 05.2020
Replaces: 11.2019



# 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 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.

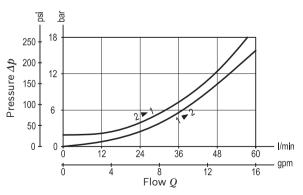
|   | Standard                 |
|---|--------------------------|
|   | 3 Pil. V2                |
| 3 | With bleed through pilot |
|   | Pil. 3                   |
| 2 | ×                        |
| 1 | C2 V2 (2)                |
|   |                          |

| 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<br>lubricating properties<br>at viscosities of 10 to 500 mm <sup>2</sup> /s (cSt) |
| Recommended degree of fluid contamination | Nominal value max. 10µm (NAS 8) /<br>ISO 4406 19/17/14   |
| Installation position                     | No restrictions  |
| Other Technical Data                      | See data sheet 18350-50  |

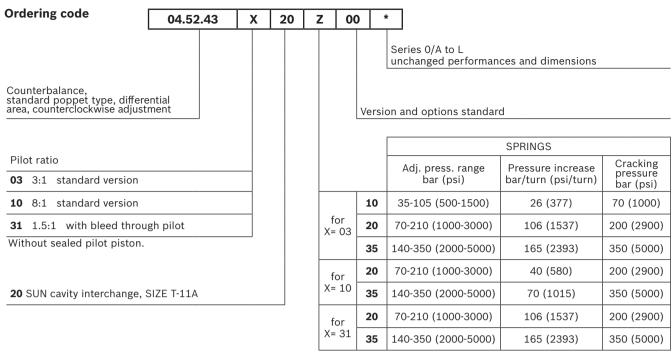
Pressure setting: at least 1.3 times the load induced pressure.

- 1) At 70% of pressure setting; 15 drops/min. with x=10
- 2) Only external seals for 10 valves

# **Characteristic curve**







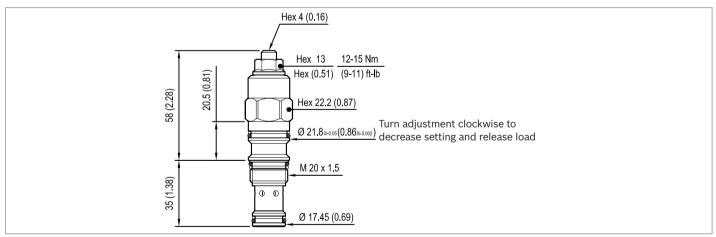
**Note:** Special settings available. Contact factory authorized representative for ordering code.

#### **Preferred types**

| Туре            | Material number |
|-----------------|-----------------|
| 045243032010000 | R930006109      |
| 045243032020000 | R930006110      |
| 045243032035000 | R930006111      |
| 045243102020000 | R930006112      |

| Туре            | Material number |
|-----------------|-----------------|
| 045243102035000 | R930006113      |
| 045243312020000 | R930006114      |
| 045243312035000 | R930006115      |
|                 |                 |

### **Dimensions**



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