

Counterbalance, 4 port vented  
poppet type external drain, counterclockwise adjustment  
Sun cavity interchange, T-23A

VBSY-16U-RS

04.59.34 - X - 47 - Z

**RE 18320-28**

Edition: 03.2016

Replaces: 01.2010



**Technical data**

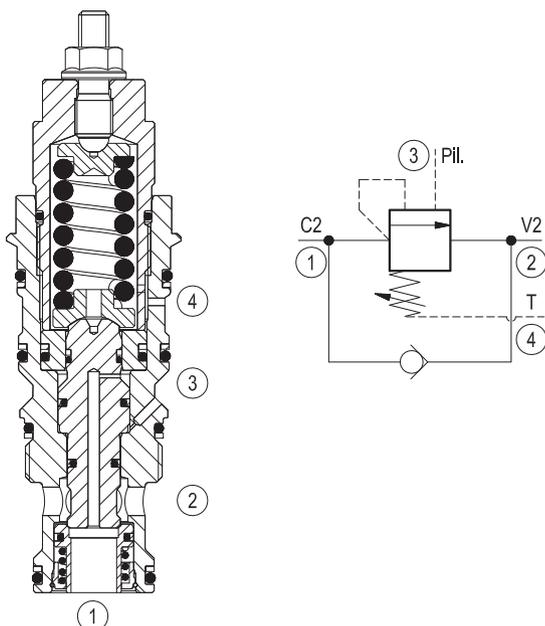
|   |  |
|---|--|
| Max. operating pressure                   | 350 bar (5000 psi)   |
| Max. flow                                 | 240 l/min (63 gpm)   |
| Max. internal leakage <sup>1)</sup>       | 15 drops/min.  |
| Fluid temperature range                   | -30 to 100 °C (-22 to 212 °F)  |
| Installation torque                       | 200 - 215 Nm (148 - 159 ft-lbs)  |
| Weight                                    | 0.8 kg (1.76 lbs)  |
| Cavity                                    | SUN T-23A  |
| Lines bodies and standard assemblies      | Please refer to section "Hydraulic integrated circuit" or consult factory                                    |
| Seal kit <sup>2)</sup>                    | Code: RG16U4020110100<br>material no: R930000994   |
| Fluids                                    | Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm <sup>2</sup> /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.

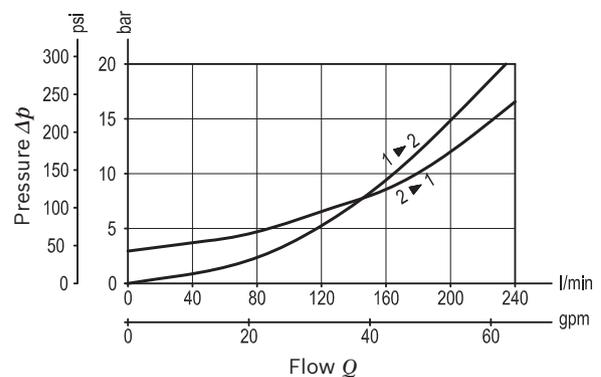
- 1) At 70% of pressure setting
- 2) Only external seals for 10 valves

**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.



**Characteristic curve**



**Ordering code**

|          |   |    |   |    |   |
|----------|---|----|---|----|---|
| 04.59.34 | X | 47 | Z | 00 | * |
|----------|---|----|---|----|---|

Counterbalance, 4 port vented  
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Pilot ratio  
**03** 3:1

**47** SUN cavity interchange, T-23A

Series O/A to L  
unchanged performances and dimensions

Version and options standard

|           | SPRINGS                        |  |  |
|-----------|--------------------------------|--|--|
|           | Adj. press. range<br>bar (psi) | Pressure increase<br>bar/turn (psi/turn) | Std. setting<br>bar (psi)<br>cracking pressure |
| <b>20</b> | 70-250 (1000-3600)             | 70 (1015)                                | 200 (2900)                                     |
| <b>40</b> | 200-350 (2900-5000)            | 105 (1523)                               | 350 (5000)                                     |

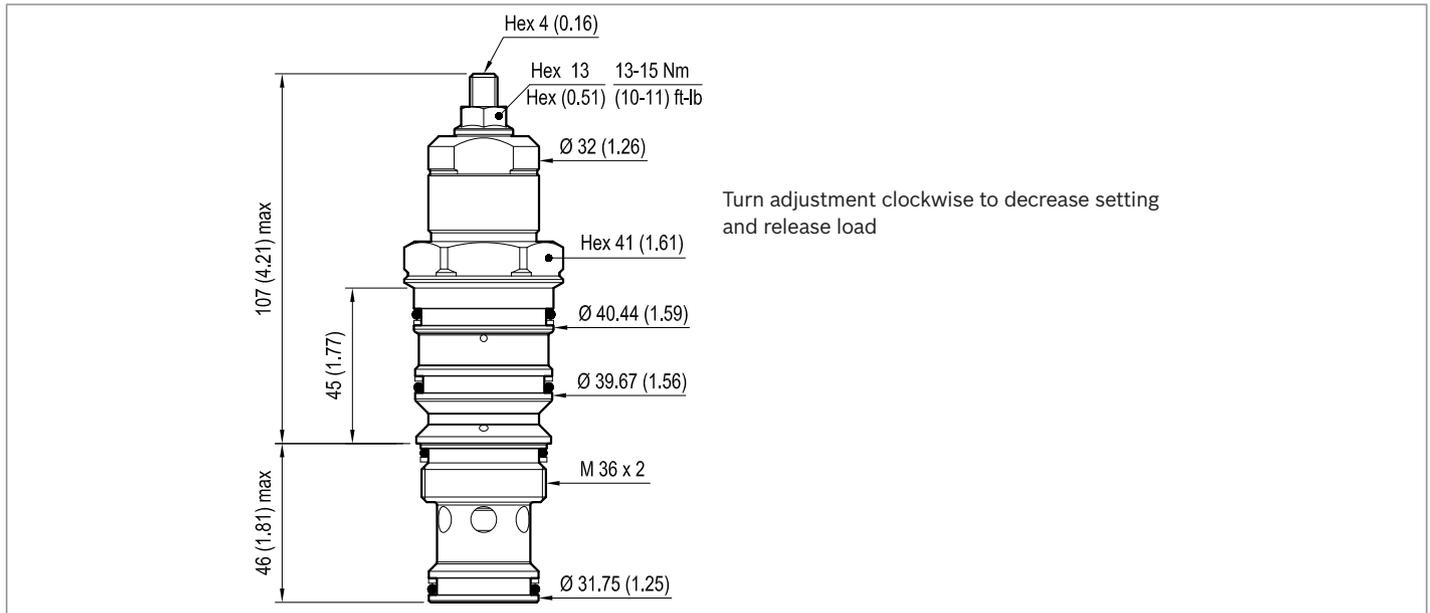
Note: Special settings available. Contact factory authorized representative for ordering code.

**Preferred types**

| Type            | Material number |
|-----------------|-----------------|
| 045934034720000 | R930000067      |
| 045934034740000 | R930000069      |

| Type | Material number |
|------|-----------------|
|      |                 |
|      |                 |

**Dimensions**



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