

# Counterbalance, standard poppet type differential area Common cavity, Size 10

VBSN-10A 04.52.31 - X - 85 - Z

**RE 18320-02**Edition: 06.2019
Replaces: 02.2019



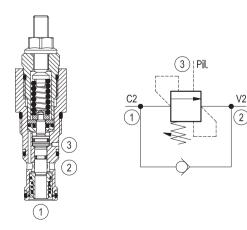
# **Description**

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, 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 spring chamber is drained to 2, and any back-pressure at 2 is additive to the pressure setting in all functions.

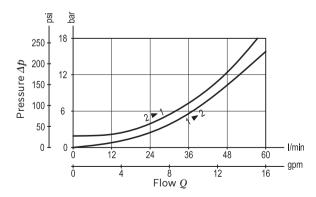
| Technical data                            |  |
|---|--|
| Max. operating pressure                   | 350 bar (5000 psi)   |
| Max. flow                                 | 60 l/min (16 gpm)  |
| Max. internal leakage <sup>1)</sup>       | 15 drops/min.  |
| Fluid temperature range                   | -30 to 100 °C (-22 to 212 °F)  |
| Installation torque                       | 41 - 47 Nm (30 - 35 ft-lbs)  |
| Weight                                    | 0.2 kg (0.44 lbs)  |
| Cavity                                    | CA-10A-3C (see data sheet 18325-70)  |
| Lines bodies and standard assemblies      | Please refer to section "Hydraulic integrated circuit" or consult factory  |
| Seal kit <sup>2)</sup>                    | Code: RG10A9010520100  |
|   | material no: R901111367  |
| 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) / 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.

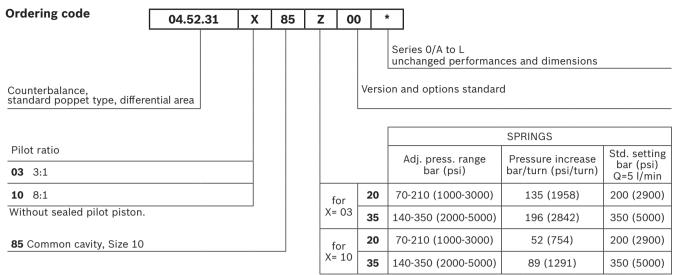
- 1) At 70% of pressure setting
- 2) Only external seals for 10 valves



### **Characteristic curve**







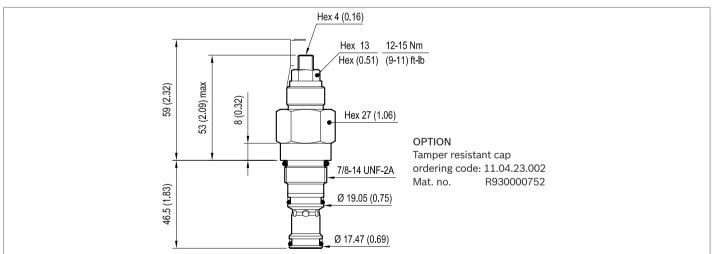
**Note:** Special settings available. Contact factory authorized representative for ordering code.

Preferred types

| Туре            | Material number |
|-----------------|-----------------|
| 04523103852000A | R901096029      |
| 04523103853500A | R901096037      |
| 04523110852000A | R901096038      |
| 04523110853500A | R901096041      |

| Туре | Material number |
|------|-----------------|
|      |                 |
|      |                 |
|      |                 |
|      |                 |

# **Dimensions**



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