

# Single counterbalance

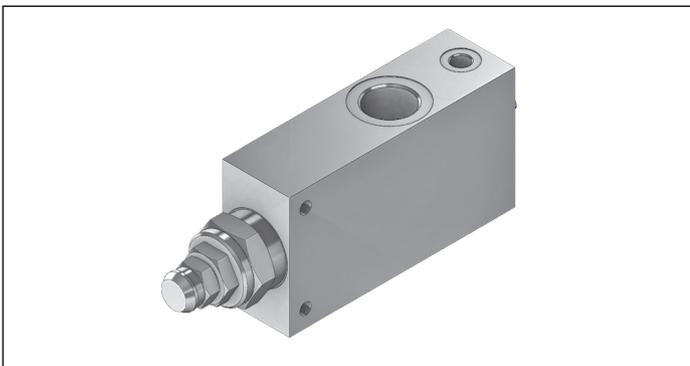
A-VBSO-SE-42

08.39.30 - X - Y - Z

**RE 18308-46**

Edition: 03.2016

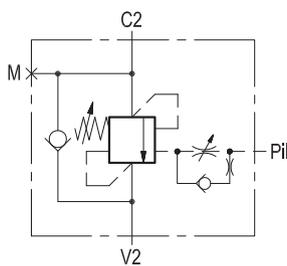
Replaces: 07.2012



## Description

When pressure at V2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from V2 to C2. When load pressure at C2 rises above the pressure setting, the direct operated, differential area, relief function is activated and flow is relieved from C2 to V2. With pilot pressure at Pil, the pressure setting is reduced in proportion to the stated ratio of the valve, until opening and allowing flow from C2 to V2. The spring chamber is drained to V2, and any back-pressure at V2 is additive to the pressure setting in all functions.

Note: port identified with M are not protected with calibrated orifice but in direct connection with pressure channels.

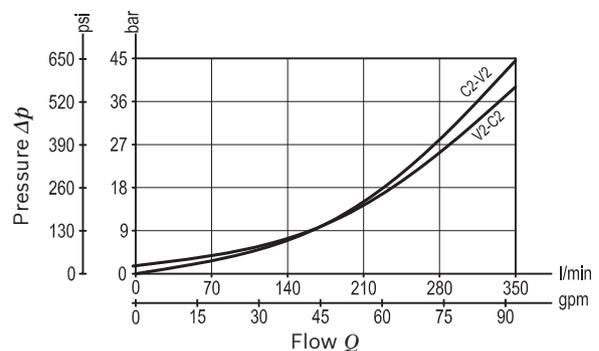


## Technical data

Max. operating pressure	410 bar (5945 psi)
Max. flow	350 l/min. (92 gpm)
Weight	5.8 kg (12.8 lbs)
Manifold material	Zinc plated steel
Fluid	Mineral oil (HL, HLP) according DIN 51524
Fluid temperature range	-30 °C to 100 (-22 to 212 °F)
Viscosity range	5 to 800 mm <sup>2</sup> /s (cSt)
Recommended degree of fluid contamination	Class 19/17/14 according to ISO 4406
Other technical data	see data sheet 18350-50
Relief setting:	at least 1.3 times the load induced pressure.
The pilot line includes adjustable hydraulic damping, for fine tuning of stability and response.	

Note: for applications outside these parameters, please consult us.

## Characteristic curve



**Ordering code**

<b>08.39.30</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
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Single counterbalance
Pilot ratio
<b>13</b> 4 : 1

Port sizes	V2 - C2	Pil	M
<b>05</b>	G 1	G 1/4	G 1/4

SPRINGS		
Adj. pressure range bar (psi)	Pres. increase bar/turn (psi/turn)	Std. setting Q=5 (l/min) bar (psi)
<b>35</b> 120-350 (1740-5000)	73 (1059)	350 (5000)

Pressure setting up to 410 bar: code on request.

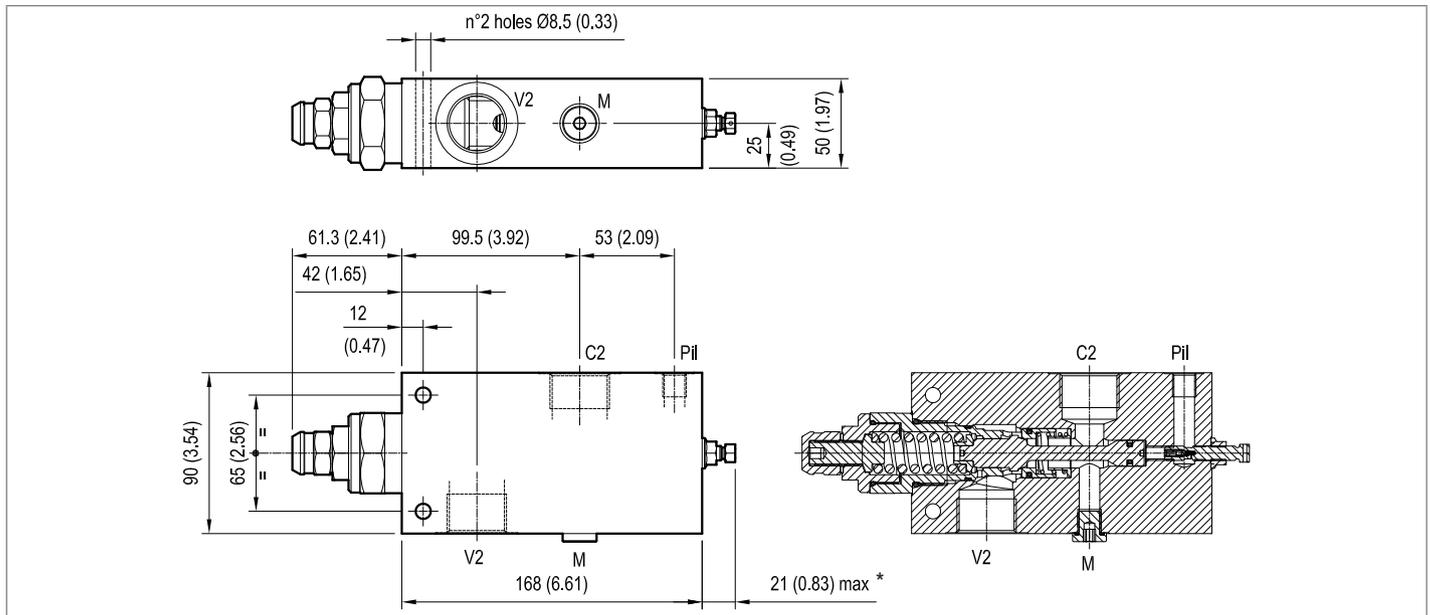
Tamper resistant cap code ordering code 11.04.30.001  
Mat. no. R930005194 

**Preferred types**

Type	Material number
08393013053500B	R930051073

Type	Material number

**Dimensions**



\* The adjusting screw can be completely unscrewed. Do not exceed the indicated protrusion range of the adjusted screw.

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