

# Single counterbalance with brake release port for winches

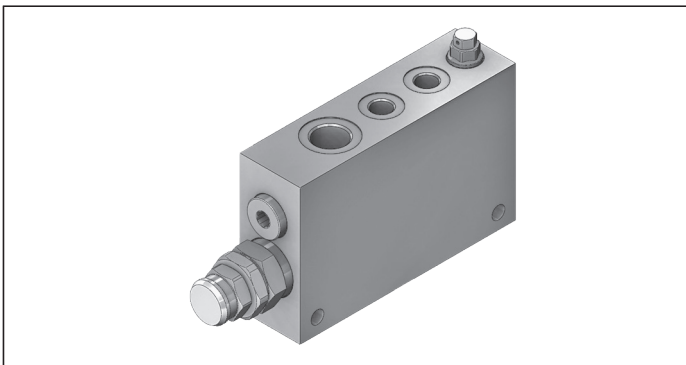
A-VBSO-SE-LA-33

08.37.69 - X - Y - Z

**RE 18308-35**

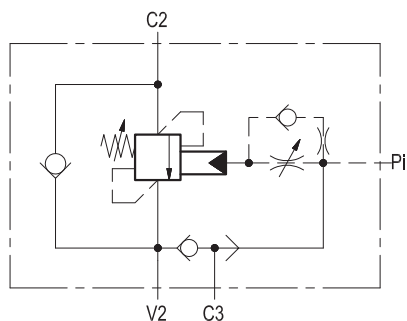
Edition: 03.2016

Replaces: 11.2015



## 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. Through port C3, an incorporated shuttle valve directs either Pil or V2 line pressure to the spring actuated brake for brake opening.

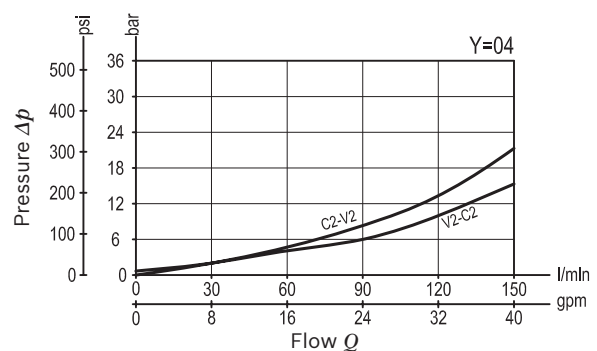


## Technical data

Max. operating pressure	410 bar (5945 psi)
Max. flow	150 l/min. (40 gpm)
The high pilot ratio (13:1) has been developed for energy saving; for higher stability at all flows and pressures, the pilot line includes hydraulic damping.	
Relief setting: at least 1.3 times the highest expected load. In addition, both the relief setting and the pilot ratio must be determined also in order to achieve building-up of pilot pressure in Pil high enough to release the brake prior to any valve opening from C2 to V2.	
Weight	see "Dimensions"
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	10 to 500 mm <sup>2</sup> /s (cSt)
Recommended degree of fluid contamination	Class 19/17/14 according to ISO 4406
MTTFd	150 years see data sheet 18350-51
Other technical data	see data sheet 18350-50

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

## Characteristic curve



**Ordering code**

<b>08.37.69</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
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Pilot ratio

**13** 13:1

Port sizes	V1 - V2	C3 - Pil	
<b>03</b>	G 1/2	G 1/4	
<b>04</b>	G 3/4	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> 300-500 (4350-7250)	200 (2900)	500 (7250)

Pressure setting up to 410 bar: code on request.

Tamper resistant cap ordering code 11.04.30.001  
Mat. no. R930005194

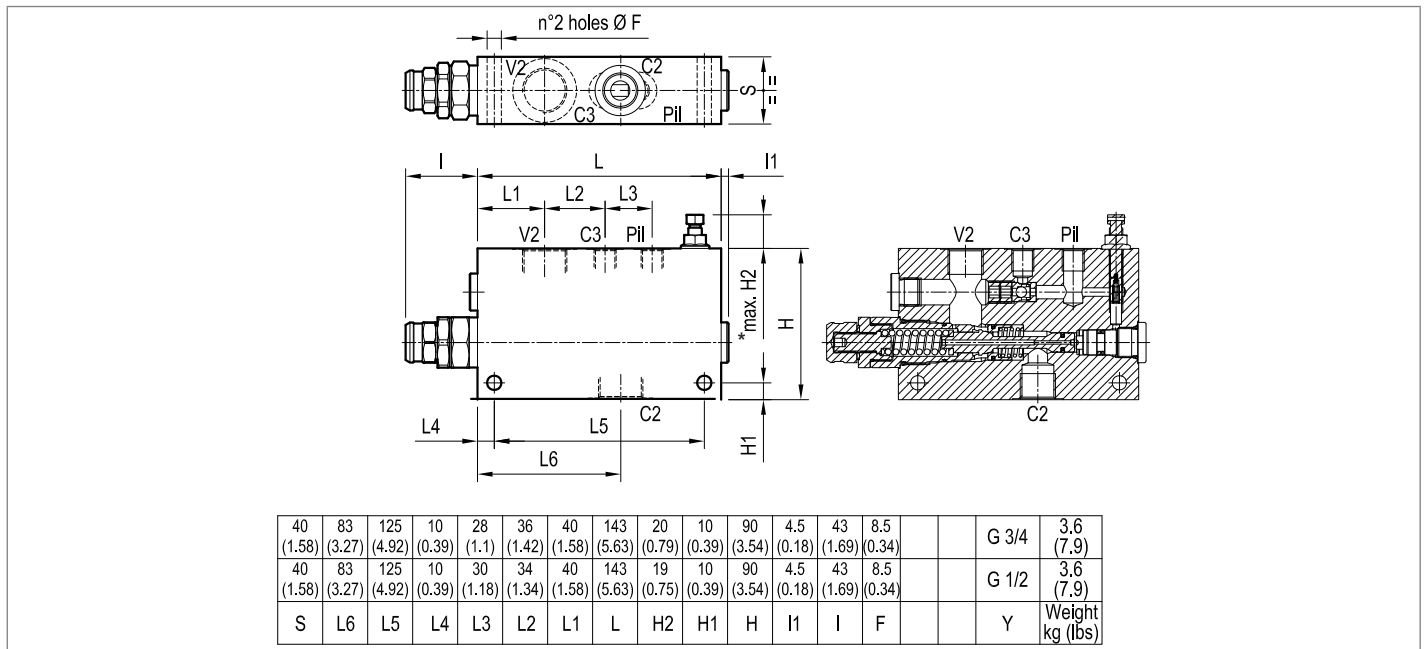


**Preferred types**

Type	Material number
08376913033500A	R930007138
08376913043500A	R930007152

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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