

# Single counterbalance

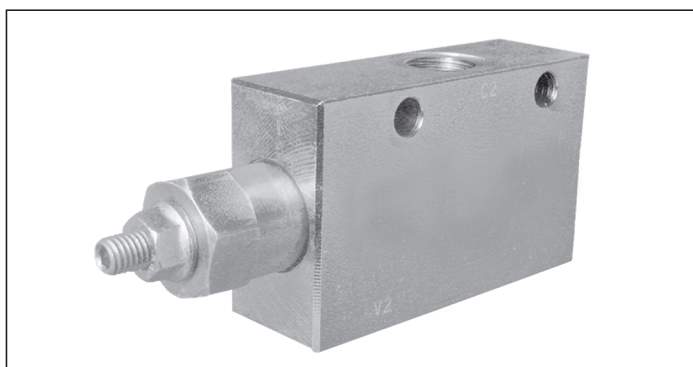
A-VBSO-SE-30

08.41.01 - X - Y - Z

**RE 18307-37**

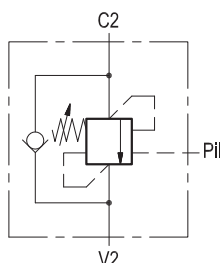
Edition: 03.2016

Replaces: 07.2010



## 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.

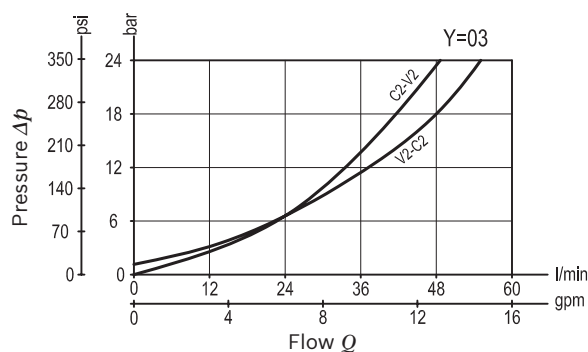


## Technical data

Max. operating pressure	410 bar (5945 psi)
Max. flow	60 l/min. (16 gpm)
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	5 to 800 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
Relief setting:	at least 1.3 times the load induced pressure.

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

## Characteristic curve



08.41.01	X	Y	Z
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Pilot ratio

**03**      4.2 : 1

Port sizes	V2	C2	Pil
<b>09</b>	G 1/4	G 1/4	G 1/4
<b>02</b>	G 3/8	G 3/8	G 3/8
<b>03</b>	G 1/2	G 1/2	G 1/4

	SPRINGS		
	Adj. pressure range bar (psi)	Pres. increase bar/turn (psi/turn)	Std. setting Q=5 (l/min) bar (psi)
<b>20</b>	60-210 (870-3000)	63 (914)	200 (2900)
<b>35</b>	180-350 (2610-5000)	138 (2001)	350 (5000)

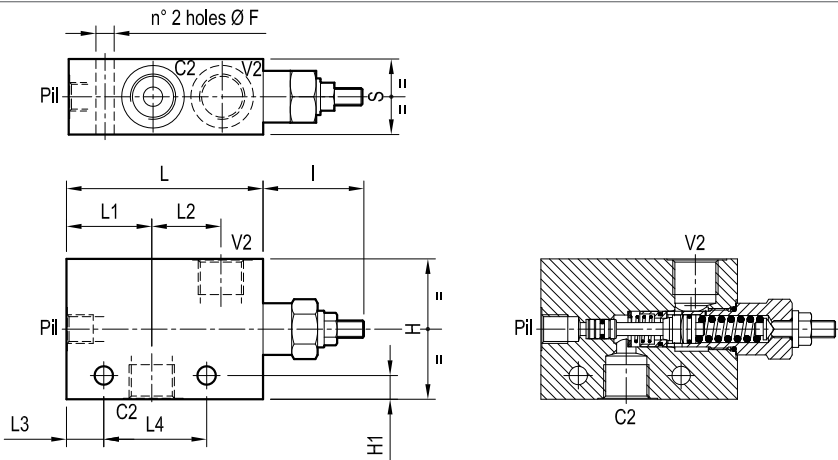
Pressure setting up to 410 bar: code on request.

Tamper resistant cap code  
ordering code 11.04.23.002  
Mat. no. R930000752



Type	Material number
08410103022000B	R930003264
08410103023500B	R987234306
08410103032000A	R930003270

Type	Material number
08410103033500B	R930003271
084101030920000	R930003272
08410103093500B	R930003273



35 (1.38)	47.6 (1.87)	17.8 (0.7)	31 (1.22)	39.3 (1.55)	91 (3.58)	47 (1.85)	11 (0.43)	65 (2.56)	8.5 (0.34)							G 1/2	1.5 (3.29)
30 (1.18)	47.6 (1.87)	17.8 (0.7)	31 (1.22)	39.3 (1.55)	91 (3.58)	47 (1.85)	7 (0.28)	55 (2.17)	8.5 (0.34)							G 3/8	1.1 (2.38)
30 (1.18)	47.6 (1.87)	17.8 (0.7)	31 (1.22)	39.3 (1.55)	91 (3.58)	47 (1.85)	7 (0.28)	55 (2.17)	8.5 (0.34)							G 1/4	1.1 (2.38)
S	L4	L3	L2	L1	L	I	H1	H	F							Y	Weight kg (lbs)