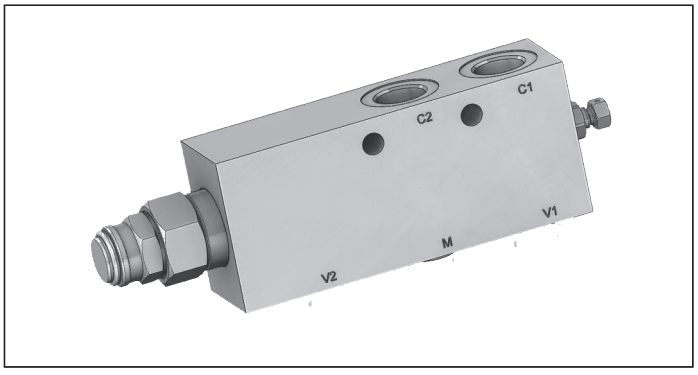
Single counterbalance, vented

A-VBSO-SE-CCAP-33-PL

08.45.86 - X - Y - Z

RE 18307-52
Edition: 03.2016
Replaces: 03.2014



Technical data

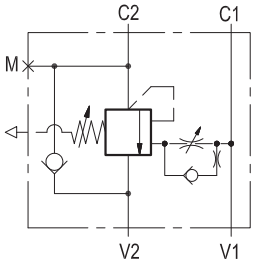
Max. operating pressure	410 bar (5945 psi)
Max. flow	150 l/min. (40 gpm)
Weight	see “Dimensions”
Manifold material	Zinc plated steel
Fluid	Mineral oil (HL, HLP) according DIN 51524
Fluid temperature range	-30 °C to 100 (-22 to 212 °F)
Viscosity range	5 to 800 mm^2/s (cSt)
Recommended degree of fluid contamination	Class 19/17/14 according to ISO 4406
MTTFd	150 years see 18350-51
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.

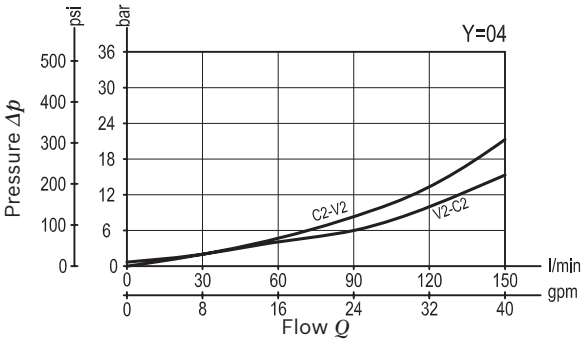
Description

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-acting, differential area, relief function is activated and flow is relieved from C2 to V2. With pilot pressure at V1–C1 , 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 vented to atmosphere allowing operation of all functions independent of back-pressure at V2.

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



Characteristic curve



Ordering code

08.45.86	X	Y	Z

Single counterbalance, vented

Pilot ratio

13	4:1
15	8:1

Port sizes	V1 - V2	C1 - C2	M
03	G 1/2	G 1/2	G 1/4
04	G 3/4	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)
35	for X=13	150-350 (2200-5000)	110 (1595)	350 (5000)
	for X=15	150-350 (2200-5000)	84 (1218)	350 (5000)

Pressure setting up to 410 bar: code on request.

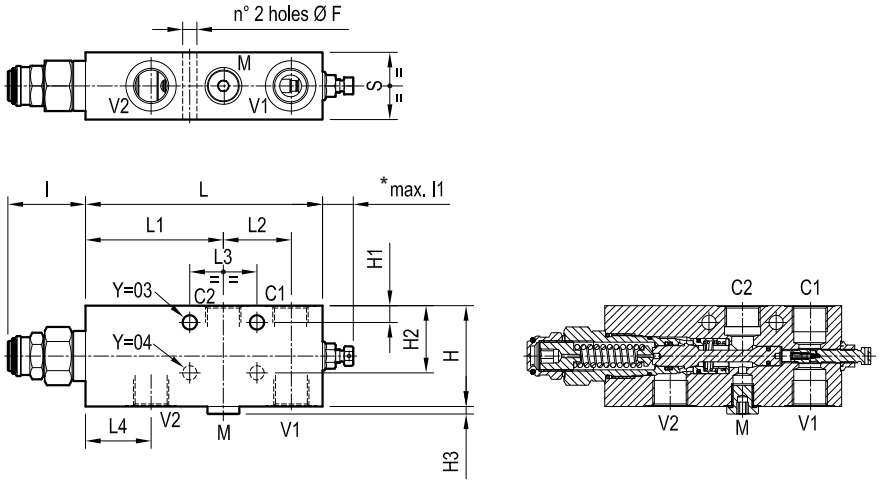
Tamper resistant cap code
ordering code 11.04.30.001
Mat. no. R930005194

Preferred types

Type	Material number
08458613033500E	R930007660
08458613043500D	R930050617

Type	Material number
08458615033500D	R930007661
08458615043500D	R930050618

Dimensions



40 (1.58)	39 (1.54)	40 (1.58)	43 (1.69)	82 (3.23)	147 (5.79)	16 (0.63)	46.5 (1.83)	4.5 (0.18)	60 (2.36)	- -	80 (3.15)	10.5 (0.41)		G 3/4	3.1 (6.8)
40 (1.58)	39 (1.54)	40 (1.58)	40 (1.58)	82 (3.23)	141 (5.55)	16.5 (0.65)	46.5 (1.83)	4.5 (0.18)	- -	10 (0.39)	60 (2.36)	8.5 (0.34)		G 1/2	2.4 (5.3)
S	L4	L3	L2	L1	L	I1	I	H3	H2	H1	H	F		Y	Weight kg (lbs)

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

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