

Dual counterbalance

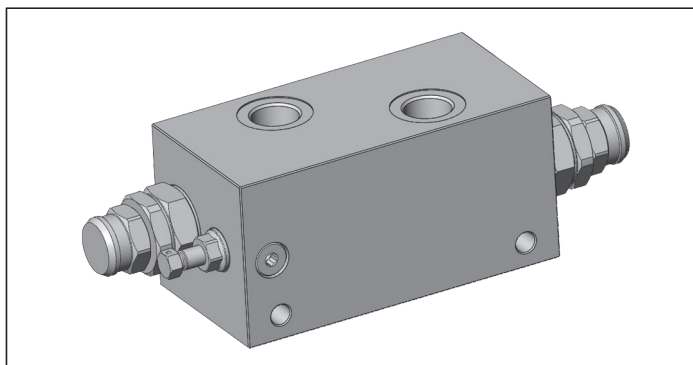
VBSO-DE-33

05.44.32.13 - Y - Z

RE 18308-65

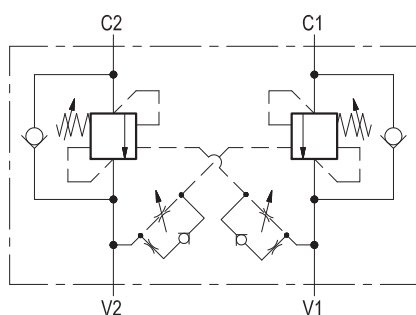
Edition: 03.2016

Replaces: 04.2010



Description

It provides static and dynamic control of load by regulating the flow IN and OUT of the actuator, through ports C1 and C2. This valve module includes 2 sections, each one composed by a check and a relief valve pilot assisted by pressure in the opposite line: the check section allows free flow into the actuator, then holds the load against reverse movement; with pilot pressure applied at the line across, the pressure setting of the relief is reduced in proportion to the stated ratio until opening and allowing controlled reverse flow. Back-pressure at V1 or V2 is additive to the pressure setting in all functions.

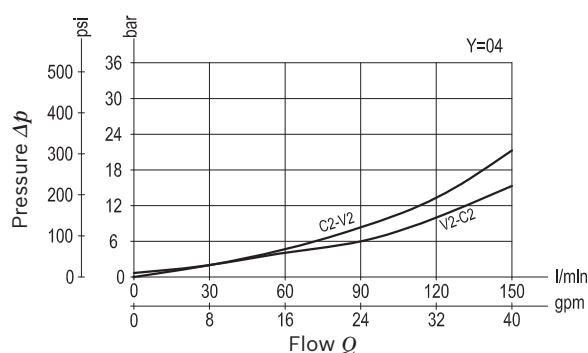


Technical data

Operating pressure	up to 210 bar (3000 psi)
Max. flow	150 l/min. (40 gpm)
Weight	see "Dimensions"
Manifold material	Anodized aluminium
Note: aluminium bodies are often strong enough for operating pressures exceeding 210 bar (3000 psi), depending from the fatigue life expected in the specific application. If in doubt, consult our Service Network.	
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
Other technical data	see data sheet 18350-50
Relief setting: at least 1.3 times the highest expected load.	

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

Characteristic curve



Ordering code

05.44.32	13	Y	Z
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Dual counterbalance

Pilot ratio

13	4 : 1
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Port sizes

V1 - V2	C1 - C2	
G 1/2	G 1/2	
G 3/4	G 3/4	

SPRINGS

Adj. pressure range bar (psi)	Pres. increase bar/turn (psi/turn)	Std. setting Q=5 (l/min) bar (psi)
35 150-350 (2175-5000)	110 (1595)	350 (5000)

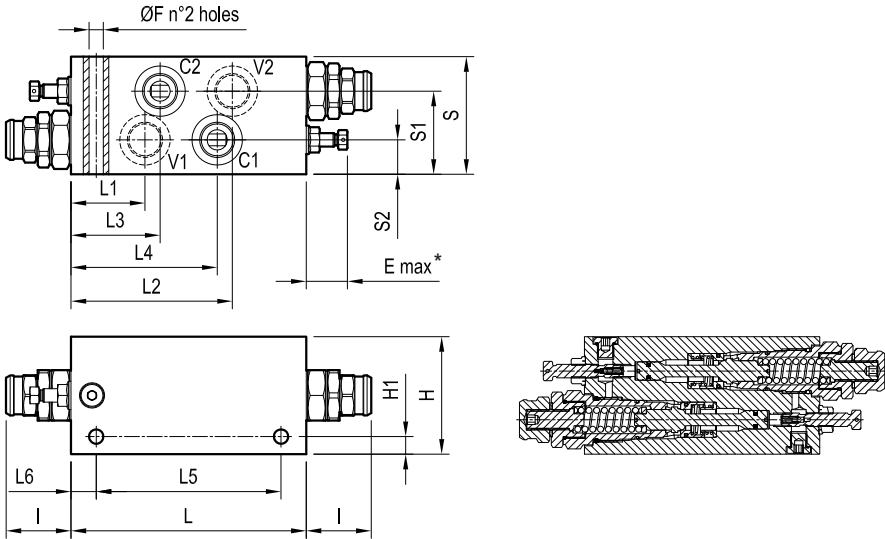
Tamper resistant cap code
ordering code 11.04.30.001
Mat. no. R930005194



Preferred types

Type	Material number	Type	Material number
05443213033500A	R930007243		
05443213043500A	R930007246		

Dimensions



20.5 (0.81)	49.5 (1.95)	70 (2.76)	15 (0.59)	110 (4.33)	87 (3.43)	53 (2.09)	96 (3.78)	44 (1.73)	140 (5.51)	38.7 (1.52)	10.5 (0.41)	70 (2.76)	8.5 (0.34)	25 (0.98)	G 3/4	2.3 (5.1)
20.5 (0.81)	49.5 (1.95)	70 (2.76)	15 (0.59)	110 (4.33)	87 (3.43)	53 (2.09)	96 (3.78)	44 (1.73)	140 (5.51)	38.7 (1.52)	10.5 (0.41)	70 (2.76)	8.5 (0.34)	25 (0.98)	G 1/2	2.32 (5.11)
S2	S1	S	L6	L5	L4	L3	L2	L1	L	I	H1	H	F	E	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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Bosch Rexroth Oil Control S.p.A., RE 18308-65/03.2016