

Dual counterbalance, with regenerative function

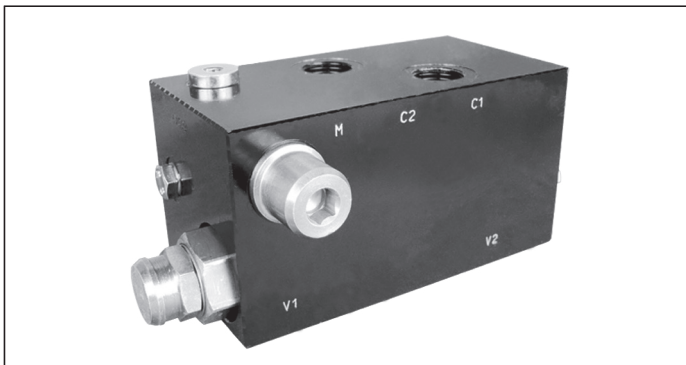
VBSO-DE-CR-33

05.44.13 - X - Y - Z

RE 18307-92

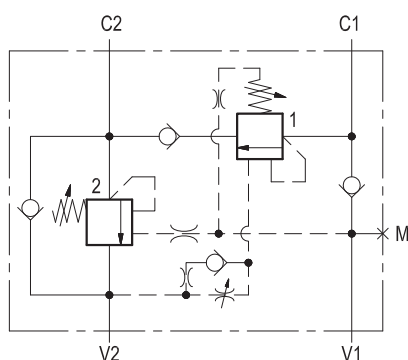
Edition: 03.2016

Replaces: 11.2015



Description

It provides static and dynamic control of load by regulating the flow IN and OUT of the cylinder, through ports C2 and C1. This valve module includes a pilot assisted counterbalance (2) on the line C2-V2 for control of the full bore side of the cylinder, a check valve between V1 and C1 which allows flow into the annular side and locks in reverse direction, a pilot assisted by-pass counterbalance “fully vented type” (1) which feeds into the full bore (C2) the flow coming out from the annular side (C1) in order to increase the extension speed. The valve (1) is internally vented into V1 which acts as “Tank” line during cylinder extension. The pilot line for the valve (1) has a one way adjustable cross-over drain for hydraulic damping.

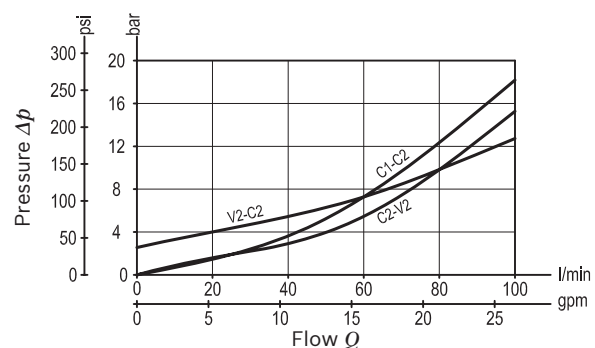


Technical data

Operating pressure	up to 210 bar (3000 psi)
Max. flow	100 l/min. (26 gpm)
Weight	2.6 kg (5.7 lbs)
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	10 to 500 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

05.44.13	X	Y	Z
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Pilot ratio

03 4:1

Port sizes	V1 - V2	C1 - C2	M
03	G 1/2	G 1/2	G 1/4

35

SPRINGS			
	Adj. pressure range bar (psi)	Pres. increase bar/turn (psi/turn)	Std. setting Q=5 (l/min) bar (psi)
Valve 1	150-350 (2175-5000)	110 (1595)	350 (5000)
Valve 2	150-350 (2175-5000)	110 (1595)	350 (5000)

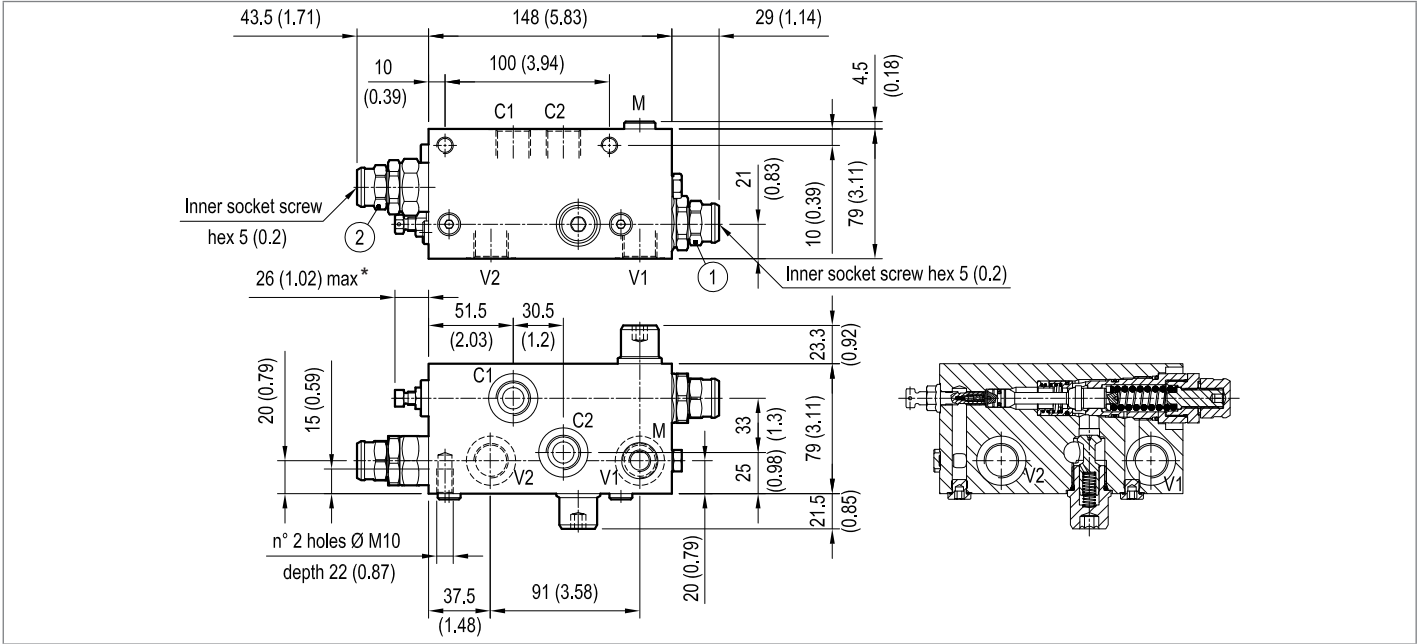
Tamper resistant cap
ordering code 11.04.30.001
Mat. no. R930005194



Type	Material number
05441303033500F	R930007159

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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