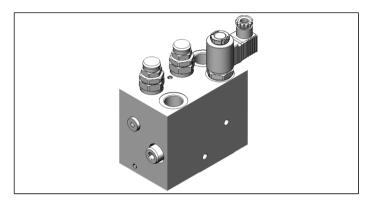


Dual counterbalance, with regenerative function solenoid controlled

VBSO-DE-CR-EE-33

05.44.81 - X - Y - Z

RE 18307-94Edition: 03.2018
Replaces: 03.2016



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 can feed into the full bore (C2) the flow coming out from the annular side (C1) in order to increase the extension speed. A normally open solenoid cartridge controls the by-pass flow from valve (1) and diverts it either to V1 (for low speed extension) or to C2 (high speed extension with regenerative mode).

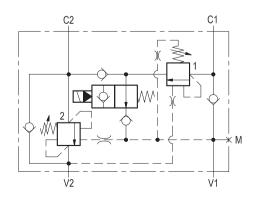
Technical data

Operating pressure	up to 210 bar (3000 psi)
Max. flow	100 l/min. (26 gpm)
Weight	5.2 kg (11.7 lbs)
Manifold material	Anodized aluminium

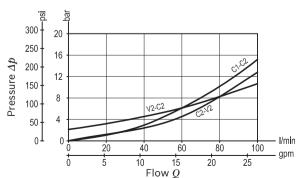
Note: aluminium bodies are often strong enough for operating pressures exceeding 210 bar (3000 psi), depending from the fatigue life expected in the specific application. If in doubt, consult our Service Network.

Fluid	Mineral oil (HL, HLP) according to DIN 51524	
Fluid temperature range	-20 °C to 80 (-4 to 176 °F)	
Viscosity range	20 to 380 mm ² /s (cSt)	
Recommended degree of fluid contamination	Class 19/17/14 according to ISO 4406	
Nominal voltage	24 V DC	
Power	20 W	
For other details see data sheet 18325-90		
Other technical data	see data sheet 18350-50	
Relief setting: at least 1.3 times the highest expected load.		

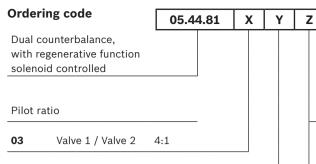
Note: for applications outside these parameters, please consult us.



Characteristic curve



2



	ı	ı	ı
Port sizes	V1 - V2	C1 - C2	М
04	G 3/4	G 3/4	G 1/4

			SPRINGS	
		Adj. pressure	Pres. increase	Std. setting
		range	bar/turn	Q=5 (I/min)
		bar (psi)	(psi/turn)	bar (psi)
	Valve 1	150-350	110	350
35		(2175-5000)	(1595)	(5000)
	Valve 2	150-350	110	350
		(2175-5000)	(1595)	(5000)

Tamper resistant cap ordering code 11.04.30.001 R930005194 Mat. no.

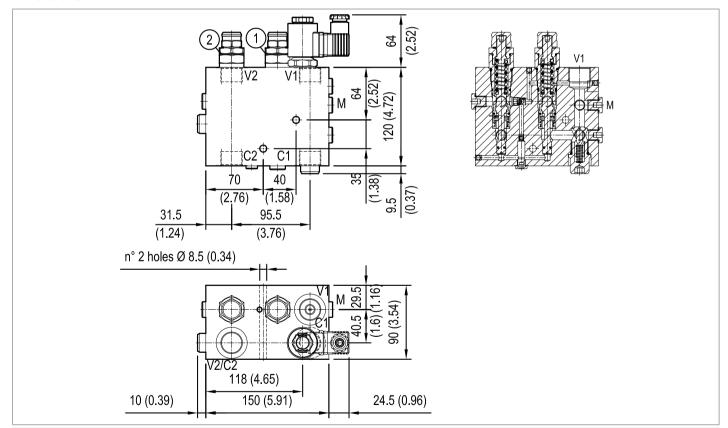


Preferred types

Туре	Material number
05448103043500F	R930068158

Туре	Material number
	·

Dimensions



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