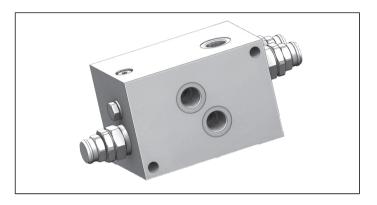


Dual counterbalance with regenerative function, pressure sensitive

VBSO-DE-CR-EA-33

07.06.20.51

RE 18307-93Edition: 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 (1) on the line C2-V2 for control of the full bore side of the cylinder, a one way pilot operated metering valve (2) between V1 and C1 which allows flow into the annular side and locks/controls flow in reverse direction, a pilot assisted by-pass counterbalance "fully vented type" (3) which provides the regenerative function by feeding into the full bore (C2) the flow coming out from the annular side (C1). The extension speed increment given by the regenerative function disappears when line pressure in V2 increases above the pressure threshold needed to pilot open valve (2).

Technical data

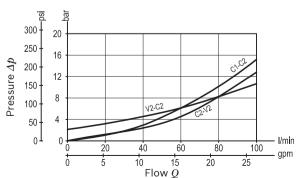
Operating pressure	up to 210 bar (3000 psi)
Max. flow	100 l/min. (26 gpm)
Weight	4.4 kg (9.7 lbs)
Manifold material	Aluminium

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		07.06.20.51		
			07.00	0.20.51
Dual counterbalance with regenerative function, pressure sensitive				
Pilot ratio				
Valve 1	4:1	,		
Valve 2	Equal area			
Valve 3	4:1			
Port sizes	V1 - V2		C1 - C2	
	G 1/2		G 1/2	

	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
vaive 1	(2175-5000)	(1595)	(5000)
Value 2	50-200	52	180
Valve 2	(725-2900)	(754)	(2600)
Valve 3	150-350	110	350
	(2175-5000)	(1595)	(5000)

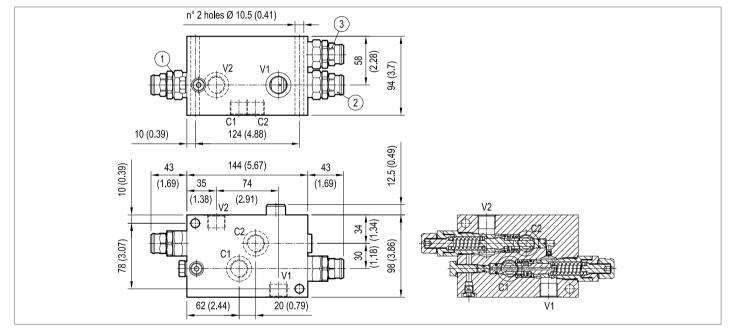
Tamper resistant cap ordering code 11.04.30.001 Mat. no. R930005194

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Туре	Material number
07062051000000F	R930007146

Туре	Material number	

Dimensions



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