

Dual counterbalance, with regenerative function

VBSO-DE-CR-78



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 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" (2) 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 (2) is internally vented into V1 which acts as "Tank" line during cylinder extension. The pilot line for the valve (2) has a controlled cross-over drain for hydraulic damping. 05.44.58 - X - Y - Z

RE 18307-90

Edition: 03.2016 Replaces: 09.2014

Technical data

Operating pressure	up to 210 bar (3000 psi)	
Max. flow	40 l/min. (11 gpm)	
Weight	1.33 kg (2.9 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	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





Preferred types

Туре	Material number	Туре	Material number
05445803023500A	R930007287		

Dimensions



Bosch Rexroth Oil Control S.p.A.

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