

Dual counterbalance with regenerative function, pressure sensitive

VBSO-DE-CR-EA-33



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).



RE 18307-93

Edition: 03.2016 Replaces: 11.2015

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





Туре	Material number	Туре	Material number
07062051000000F	R930007146		

Dimensions



Bosch Rexroth Oil Control S.p.A.

Via Leonardo da Vinci 5 P.O. Box no. 5 41015 Nonantola – Modena, Italy Tel. +39 059 887 611 Fax +39 059 547 848 compact-hydraulics-pib@boschrexroth.com www.boschrexroth.com/compacthydraulics © This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth Oil Control S.p.a.. It may not be reproduced or given to third parties without its consent. The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging. Subject to change.