

Single counterbalance

RE 18308-45

Edition: 03.2016

08.39.28 - X - Y - Z Replaces: 07.2012

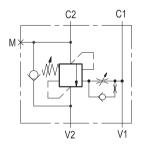
A-VBSO-SE-90-PL



Description

When pressure at V2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from V2 to C2. When load pressure at C2 rises above the pressure setting, the direct operated, differential area, relief function is activated and flow is relieved from C2 to V2. With pilot pressure at V1-C1, the pressure setting is reduced in proportion to the stated ratio of the valve, until opening and allowing flow from C2 to V2. The spring chamber is drained to V2, and any back-pressure at V2 is additive to the pressure setting in all functions.

Note: port identified with M are not protected with calibrated orifice but in direct connection with pressure channels.



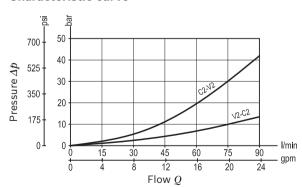
Technical data

Max. operating pressure	410 bar (5945 psi)	
Max. flow	90 l/min. (24 gpm)	
Weight	2.2 kg (4.8 lbs)	
Manifold material	Zinc plated steel	
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 Class 19/17/14 according to contamination ISO 4406		
Other technical data	see data sheet 18350-50	
Relief setting: at least 1.3 times the load induced pressure.		

The pilot line includes adjustable hydraulic damping, for fine tuning of stability and response.

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

Characteristic curve



A-VBSO-SE-90-PL | Single counterbalance

Ordering co	ae	08.39.	28	X	'
Single counte	erbalance				
Pilot ratio					
13 4.2	: 1				
Port sizes	V1 - V2	C1 - C2		М	
03	G 1/2	G 1/2	G	1/4	

		SPRINGS	
	Adj. pressure	Pres. increase	Std. setting
	range	bar/turn	Q=5 (I/min)
	bar (psi)	(psi/turn)	bar (psi)
35	180-350	138	350
33	(2610-5000)	(2001)	(5000)

Pressure setting up to 410 bar: code on request.

Tamper resist	ant cap code	
ordering code	e 11.04.23.002	
Mat. no.	R930000752	

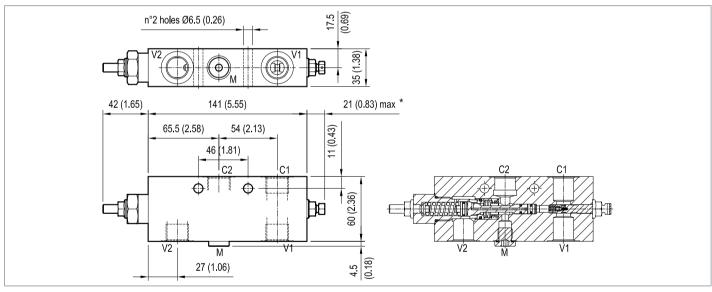
Z

Preferred types

Туре	Material number
083928130335000	R930003871

Туре	Material number

Dimensions



^{*} The adjusting screw can be completely unscrewed. Do not exceed the indicated protrusion range of the adjusted screw.

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.