

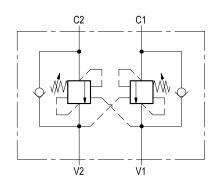
RE 18307-63/04.10

1/2 Replaces: RE 00171/02.07

Dual counterbalance



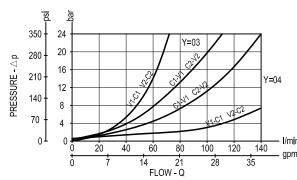
VBSO-DE 05.42.01 - X - Y - Z



Description

It provides static and dynamic control of load by regulating the flow IN and OUT of the actuator, through ports C1 and C2. This valve module includes 2 sections, each one composed by a check and a relief valve pilot assisted by pressure in the opposite line: the check section allows free flow into the actuator, then holds the load against reverse movement; with pilot pressure applied at the line across, the pressure setting of the relief is reduced in proportion to the stated ratio until opening and allowing controlled reverse flow. Back-pressure at V1 or V2 is additive to the pressure setting in all functions.

Performance



Technical data

Hydraulic

Operating pressure	bar (psi)	up to 210 (3000)
Max. flow: see performance graph		

Relief setting: at least 1.3 times the highest expected load.

General

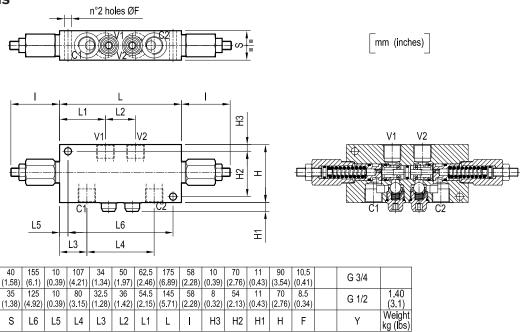
n 	
n Manifold material	Aluminium

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.

Weight	kg (lbs)	1.40 (3.09)
Fluid temperature range	°C (°F)	between -30 (-22) and +100 (212)
Other technical data		see data sheet RE 18350-50

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

Dimensions



Ordering code

Dual counterbalance					
Pilot ra	tio			-	
= 03	8.2:1				
= 10	3.2:1				

05.42.01

X

Υ

Z

Port sizes	V1 - V2	C1 - C2	
= 03	G 1/2	G 1/2	
= 04	G 3/4	G 3/4	

	SPRINGS		
	Adj. pressure	Pres. increase	Std. setting
	range	bar/turn	Q=5 (I/min.)
	bar (psi)	(psi/turn)	bar (psi)
= 20	60-210	64	200
	(900-3000)	(928)	(2900)
= 35	120-350	106	350
	(1750-5000)	(1537)	(5000)

	Туре	Material number
	054201030320000	R930001758
	05420103033500A	R930001761
	054201030420000	R930001771
	05420103043500A	R930001773
	054201100320000	R930005704
	05420110033500A	R930001776
	054201100420000	R930000981
	05420110043500A	R930001781
_	·	

Туре	Material number

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

motion-control-valves@oilcontrol.com www.boschrexroth.com

 $\ensuremath{\mathbb{C}}$ 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.