## Rexroth Bosch Group

# Dual counterbalance, with brake release port

### A-VBSO-DE-VF-30



#### Description

It provides static and dynamic motion control by regulating the flow IN and OUT of the hydraulic motor, through ports C1 and C2. It includes 2 sections, each one composed by a check and a relief valve pilot assisted by pressure in the opposite line: the check allows free flow into the motor, then locks and prevents 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 motion. With motor turning and without pilot pressure, the relief function builds up back-pressure at the motor port in order to stop the motion. Back-pressure at V1 or V2 is additive to the pressure setting in all functions. Through port C3, a shuttle valve directs either V1 or V2 line pressure to the spring actuated brake for brake releasing.



#### **Characteristic curve**



#### RE 18308-53

Edition: 03.2016 Replaces: 04.2010

#### **Technical data**

08.44.10 - X - Y - Z

Max. operating pressure	410 bar (5945 psi)	
Max. flow	60 l/min. (16 gpm)	
Weight	see "Dimensions"	
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 <sup>2</sup> /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.



			SPRINGS	
		Adj. pressure	Pres. increase	Std. setting
		range	bar/turn	Q=5 (l/min)
		bar (psi)	(psi/turn)	bar (psi)
	for	60-210	56	200
20	X=03	(870-3000)	(812)	(2900)
20	for	60-350	70	250
	X=85	(870-5000)	(1015)	(3600)
	for	180-350	138	350
35	X=03	(2610-5000)	(2001)	(5000)
35	for	60-350	70	350
	X=85	(870-5000)	(1015)	(5000)

Pressure setting up to 410 bar: code on request.

Tamper resistant cap ordering code 11.04.23.002 Mat. no. R930000752

#### **Preferred types**

G 1/2

03

Туре	Material number
08441003022000A	R930003382
084410030235000	R930006149
08441085022000A	R930003385
084410030335000	R930003384

G 1/2

G 1/4

Туре	Material number
08441003032000A	R930003383
084410850235000	R930001956
08441085032000A	R930003386
084410850335000	R930003387

#### 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.