

# Dual counterbalance, vented

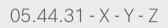
# VBSO-DE-CCAP-33-FC2



### 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. The relief spring chambers are vented to air: relief and piloted opening are independent of backpressure at V1 or V2.

For better safety and compact assembly, the C1 and C2 ports are gasket mounted directly on the actuator.



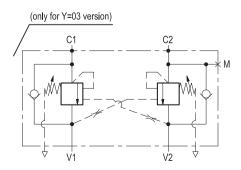
## **RE 18307-71** Edition: 11.2021 Replaces: 03.2016

#### **Technical data**

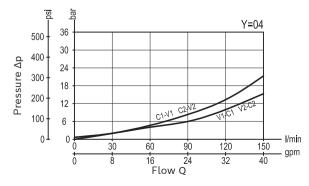
Operating pressure	up to 210 bar (3000 psi)		
Max. flow	150 l/min. (40 gpm)		
Weight	2.2 kg (4.8 lbs)		
Manifold material	Anodized aluminium		
Note: aluminium bodies are often strong enough for operating pressures exceeding 210 bar (3000 psi), depending from the fatigue life expected in the specific application. If in doubt, consult our Service Network.			
Flange seal kit <sup>1)</sup>	E0000000000012 (R930005945)		
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.			

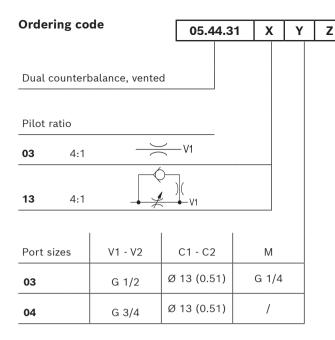
Note: for applications outside these parameters, please consult us.

<sup>1)</sup> Seals for 05 valves.



#### **Characteristic curve**





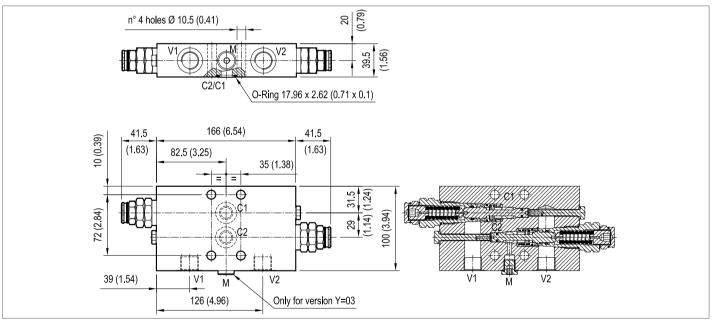
	SPRINGS		
	Adj. pressure	Pres. increase	Std. setting
	range	bar/turn	Q=5 (l/min.)
	bar (psi)	(psi/turn)	bar (psi)
35	150-350	110	350
	(2175-5000)	(1595)	(5000)

Tamper resistant cap codeordering code 11.04.45.001Mat. no.R930006433

#### Preferred types

Туре	Material number	Туре	Material number
05443103033500F	R930058463	05443113033500F	R930058466
05443103043500E	R930058481	05443113043500E	R930058482

#### 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.