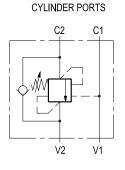


#### RE 18307-43/04.10 1/2 Replaces: RE 00171/02.07

# Single counterbalance

## **VBSO-SE**



# Description

05.41.01 - X - Y - Z

When pressure at V2 rises above the spring bias pressure, the check valve poppet is pushed away from the seat 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.

## **Technical data**

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

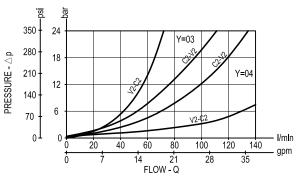
#### General

Other technical data

Manifold material (Aluminium)		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 see "Dimensions"		
Fluid temperature range	°C (°F)	between -30 (-22) and +100 (212)

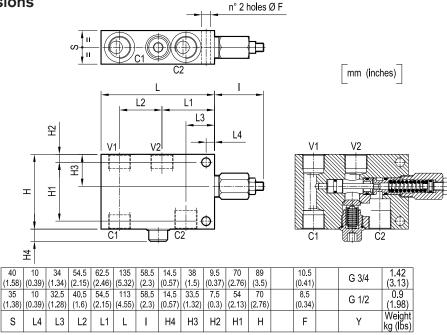
see data sheet RE 18350-50

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



Performance

### Dimensions



Ζ

## Ordering code

		<mark>05.4</mark>	1.01	X	Y
Single counte	erbalance				
Pilot ratio			-		
<b>= 03</b> 8.2:	1				
<b>= 10</b> 3.2:	1				
Port sizes	V1-V2		C1-	C2	

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

	Adj. pressure range bar (psi)	Pres. increase bar/turn (psi/turn)	Std. setting Q <del>=</del> 5 (I/min.) bar (psi)	
= 20	60-210 (870-3000)	64 (928)	200 (2900)	
<mark>= 35</mark>	<mark>(100-350) (1450-5000)</mark>	106 (1537)	350 (5000)	

SPRINGS

Туре	Material number
054101030320000	R930001654
05410103033500A	R930001655
054101030420000	R930001658
05410103043500A	R930001659
054101100320000	R930000088
05410110033500A	R930001662
054101100420000	R930001663
05410110043500A	R930001664

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.