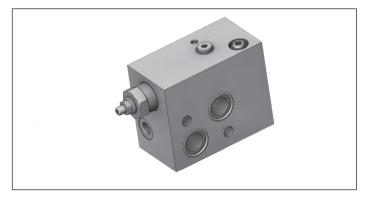


Single counterbalance with brake release port for winches flangeable to motor

VBSO-SF-FA-RD-90

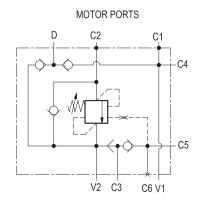
05.35.01 - X - Y - Z

RE 18308-41Edition: 03.2016
Replaces: 04.2010



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 relief function is activated and flow is relieved from C2 to V2. With pilot pressure at C5, 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. Through port C3, an incorporated shuttle valve directs either V1 or V2 line pressure to the spring actuated brake for brake opening. Through port D, a twin check valve system recovers any oil drain from the motor and delivers it to either V1 or V2 line, depending on which one is open to tank.



Technical data

Operating pressure	up to 210 bar (3000 psi)
Max. flow	90 l/min. (24 gpm)

Flangeable on SAUER-DANFOSS orbital motors OMS-OMSW-OMSS series.

Relief setting: at least 1.3 times the highest expected load. In addition, both the relief setting and the pilot ratio must be determined also in order to achieve building-up of pilot pressure in V1 high enough to release the brake prior to any valve opening from C2 to V2.

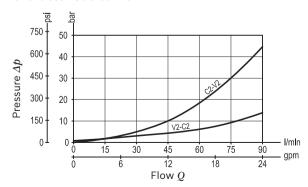
Weight	1.6 kg (3.5 lbs)
Manifold material	Anodized aluminium

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 ¹⁾	E00000000000032 (R930005697)	
Fluid	Mineral oil (HL, HLP) according	
	DIN 51524	
Fluid temperature range	-30 °C to 100 (-22 to 212 °F)	
Viscosity range	10 to 500 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	

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

Characteristic curve



¹⁾ Seals for 10 valves

VBSO-SE-FA-RD-90 | Single counterbalance

Ordering code	05.35.01	Х	Υ	Z
Single counterbalance, with brake release port for wi flangeable to motor	nches			
Pilot ratio				
03 4.2:1				
Port sizes V1-V2 C1-0	C2 C3-C4-	C5-D	C6	

Ø 19 (0.75)

	SPRINGS		
	Adj. pressure	Pres. increase	Std. setting
	range	bar/turn	Q=5 (I/min)
	bar (psi)	(psi/turn)	bar (psi)
35	150-350	120	350
33	(2175-5000)	(1740)	(5000)

Tamper resistant cap ordering code 11.04.23.002 Mat. no. R930000752

Preferred types

G 1/2

03

2

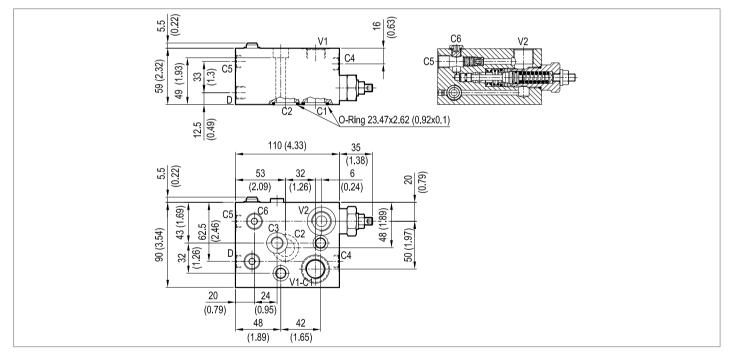
Туре	Material number	Туре
053501030335000	R930001513	

G 1/4

G 1/4

Туре	Material number	

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

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