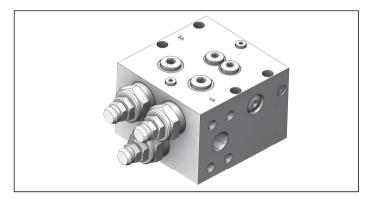


Single counterbalance with regenerative function, pressure controlled

A-VBSO-CR-EA-42

07.06.70.30

RE 18307-96Edition: 06.2020 Replaces: 03.2016



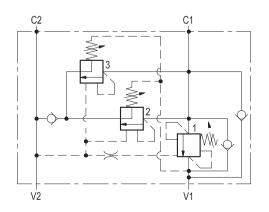
Description

It provides high speed cylinder extension at low pressure operation; the extension speed increment given by the regenerative function disappears when line pressure in V2 increases above the pressure threshold needed to pilot open valve (1) which diverts to tank the flow from the annular chamber. Two pilot assisted by-pass counterbalance "fully vented type" valves (2 and 3) provide the regenerative function by feeding into the full bore (C2) the flow coming out from the annular side (C1). The by-pass valves (2 and 3) are piloted by V2 pressure and are internally vented into V1 which acts as "Tank" line during cylinder extension. For better safety and compact assembly, the C1 and C2 ports are gasket mounted directly on the actuator.

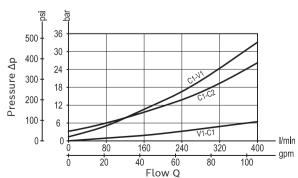
Technical data

Max. operating pressure	410 bar (5945 psi)
Max. flow	400 l/min. (106 gpm)
Weight	18.9 kg (41.7 lbs)
Manifold material	Zinc plated cast iron
Flange seal kit ¹⁾	E00000000000050 (R930052830)
Fluid	Mineral oil (HL, HLP) according DIN 51524
Fluid temperature range	-20 °C to 120 (-4 to 248 °F)
Viscosity range	5 to 800 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

Ordering code			07.06.70.30		
Single counterbalance with regenerative function, pressure controlled					
Pilot ratio			-		
Valve 1	6:1				
Valve 2	6:1				
Valve 3	6:1				
	l	ı			
Port sizes	V1 - V2		C1 - C2		
	1-1/4 SAE 6000		Ø 28 (1.1))	

	SPRINGS			
	Adj. pressure	Pres. increase		Std. setting
	range	bar/turn		Q=5 (l/min.)
	bar (psi)	(psi/turn)		bar (psi)
Value 1	30-80	17	80	Pilot opening with
Valve 1	(450-1160)	(247)	(1160)	100 bar (1450 psi) rod side
Valve 2	120-360	60		250
valve 2	(1750-5200)	(870)		(3600)
Value 2	120-360	60		250
Valve 3	(1750-5200)	(870)		(3600)

Pressure setting up to 410 bar: code on request.

Tamper resistant cap ordering code 11.04.30.001 Mat. no. R930005194

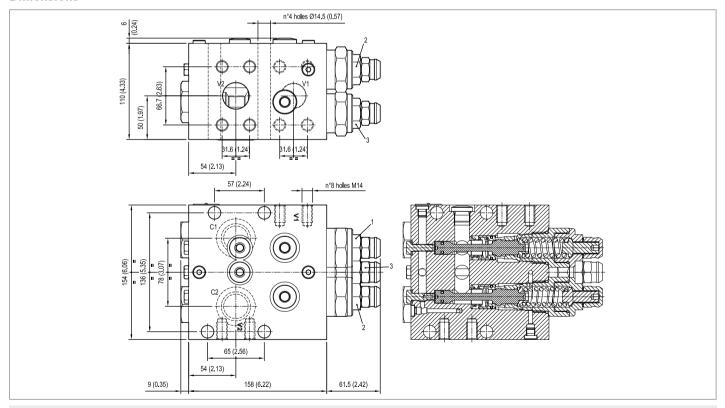


Preferred types

Туре	Material number
070670300000V0C	R930065638

Туре	Material number

Dimensions



Bosch Rexroth Oil Control S.p.A.

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