

Single counterbalance with regenerative function, pressure controlled

A-VBSO-CR-EA-42



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. The pilot assisted by-pass counterbalance "fully vented type" valve (2) provides the regenerative function by feeding into the full bore (C2) the flow coming out from the annular side (C1). The by-pass valve (2) is piloted by V2 pressure and is 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. 07.06.73.99

RE 18307-95

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Technical data

Max. operating pressure	410 bar (5945 psi)	
Max. flow	220 l/min. (58 gpm)	
Weight	14.5 kg (32 lbs)	
Manifold material	Zinc plated steel	
Flange seal kit ¹⁾	E0000000000045 (R930040885)	
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 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.

¹⁾ Seals for 10 valves



Characteristic curve





Preferred types

Туре	Material number	Туре	Material number
070673990000V0B	R930065636		

Dimensions



Bosch Rexroth Oil Control S.p.A.

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