Rexroth Bosch Group

Single counterbalance

A-VBSO-SE-30-FC2-PI-PL



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 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 back-pressure at V2 is additive to the pressure setting in all functions. For better safety and compact assembly, the C1 and C2 ports are gasket mounted directly on the actuator.

Note: port identified with M are not protected with calibrated orifice but in direct connection with pressure channels.



08.39.60 - X - Y - Z

RE 18307-33 Edition: 03.2016 Replaces: 07.2012

Technical data

Max. operating pressure	410 bar (5945 psi)		
Max. flow	60 l/min. (16 gpm)		
Weight	see "Dimensions"		
Manifold material	Zinc plated steel		
Flange seal kit ¹⁾	E0000000000014 (R930005947)		
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 ² /s (cSt)		
Recommended degree of fluid contamination	Class 19/17/14 according to ISO 4406		
MTTFd	150 years see data sheet 18350-51		
Other technical data	see data sheet 18350-50		
Relief setting: at least 1.3 times the load induced pressure.			
For higher stability at all flows and pressures, the pilot line includes hydraulic damping.			

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

¹⁾ Seals for 10 valves.

Characteristic curve





	SPRINGS		
	Adj. pressure	Pres. increase	Std. setting
	range	bar/turn	Q=5 (l/min)
	bar (psi)	(psi/turn)	bar (psi)
20	60-210	63	200
20	(870-3000)	(914)	(2900)
35	180-350	138	350
35	(2610-5000)	(2001)	(5000)

Pressure setting up to 410 bar: code on request.

Tamper resistant cap code ordering code 11.04.23.002 Mat. no. R930000752

Preferred types

Туре	Material number	Туре	Material number
083960030220000	R930006768	083960030335000	R930006773
083960030235000	R930006444		
083960030320000	R930006772		

Dimensions



Bosch Rexroth Oil Control S.p.A.

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