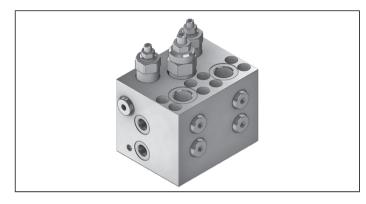


Dual counterbalance with pressure reducer for brake release port

VBSO-DE-VF-30-FM



Description

It provides static and dynamic motion control by regulating flow and pressure IN and OUT of the hydraulic motor at ports C1 and C2. It includes 2 motion control sections (ref. 1-2), each one composed by a check and a relief valve pilot assisted by pressure in the opposite line: the check allows free flow into the motor, then locks and prevents reverse movement. With pilot pressure applied at the line across, the pressure setting of the relief is reduced in proportion to the stated ratio until opening and allowing controlled reverse motion. With motor turning and without pilot pressure, the relief function builds up back-pressure at the motor port in order to stop the motion. Back-pressure at V1 or V2 is additive to the pressure settings in all functions. A shuttle valve directs either V1 or V2 line pressure to reducer cartridge (3) and provides "low/constant" pressure for brake releasing through port C3.

06.02.08.061

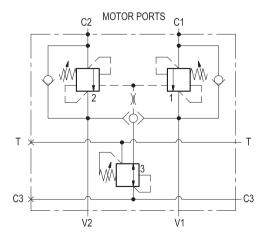
RE 18308-59 Edition: 03.2016 Replaces: 04.2010

Technical data

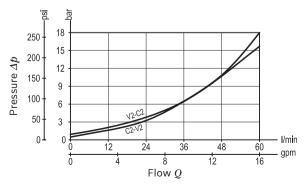
Operating pressure	up to 210 bar (3000 psi)			
Max. flow	60 l/min. (16 gpm)			
Flangeable on REXROTH motors A2FE 28-32 series.				
Relief setting: at least 1.3 times the highest expected load.				
Weight	5.7 kg (12.6 lbs)			
Manifold material	Anodized aluminium			
Note: aluminium bodies are often strong 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⁾	E0000000000020 (R930000144)			
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 contamination	Class 19/17/14 according to ISO 4406			
Other technical data	see data sheet 18350-50			

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

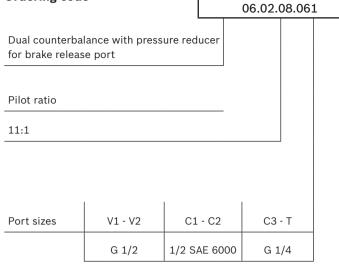
1) Seals for 5 valves



Characteristic curve



Ordering code



-					
	SPRINGS				
-	Adj. pressure	Pres. increase	Std. setting		
	range	bar/turn	Q=5 (I/min.)		
	bar (psi)	(psi/turn)	bar (psi)		
Valve 1	80-350	70	350		
	(1160-5000)	(1015)	(5000)		
Valve 2	80-350	70	350		
	(1160-5000)	(1015)	(5000)		
Valve 3	28-80	14	50		
	(400-1200)	(203)	(725)		
Tamper re	esistant cap				

code 11.04.23.002 Mat.no. R930000752 for Valve 1-2 code 11.04.23.004 Mat.no. R930001411 for Valve 3

Preferred types

Туре	Material number	Туре	Material number
06020806100000C	R930002732		

Dimensions

3 Ø 13.5 (0.53) 1 0 1	
$\begin{array}{c} \hline \\ \hline $	

Bosch Rexroth Oil Control S.p.A.

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