

Dual counterbalance with pressure reducer for brake release port

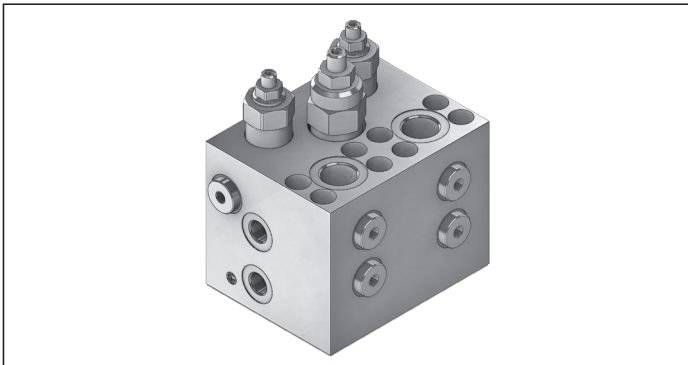
VBSO-DE-VF-30-FM

06.02.08.061

RE 18308-59

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Technical data

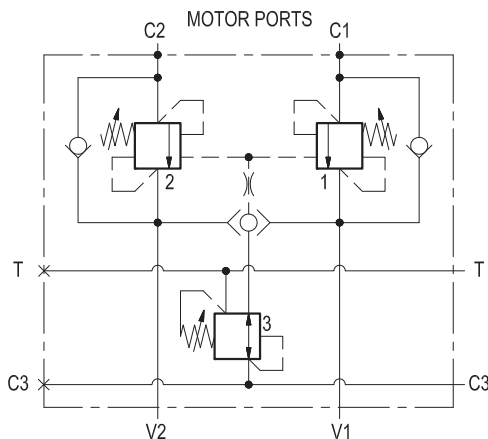
Operating pressure	up to 210 bar (3000 psi)
Max. flow	60 l/min. (16 gpm)
Flangeable on REXROTH motors A2FE 28-32 series.	
Relief setting: at least 1.3 times the highest expected load.	
Weight	5.7 kg (12.6 lbs)
Manifold material	Anodized aluminium
Note: aluminium bodies are often strong enough for operating 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.

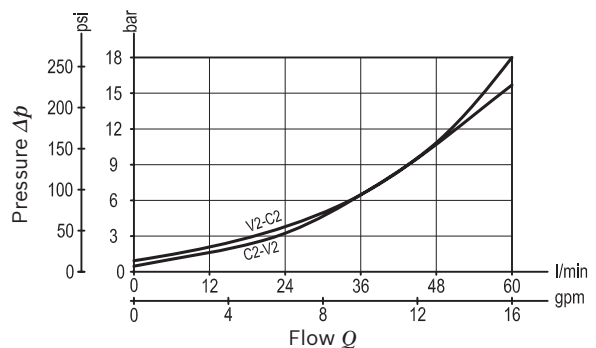
¹⁾ Seals for 5 valves

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.



Characteristic curve



Ordering code

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for brake release port

Pilot ratio

11:1

Port sizes	V1 - V2	C1 - C2	C3 - T
	G 1/2	1/2 SAE 6000	G 1/4

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

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

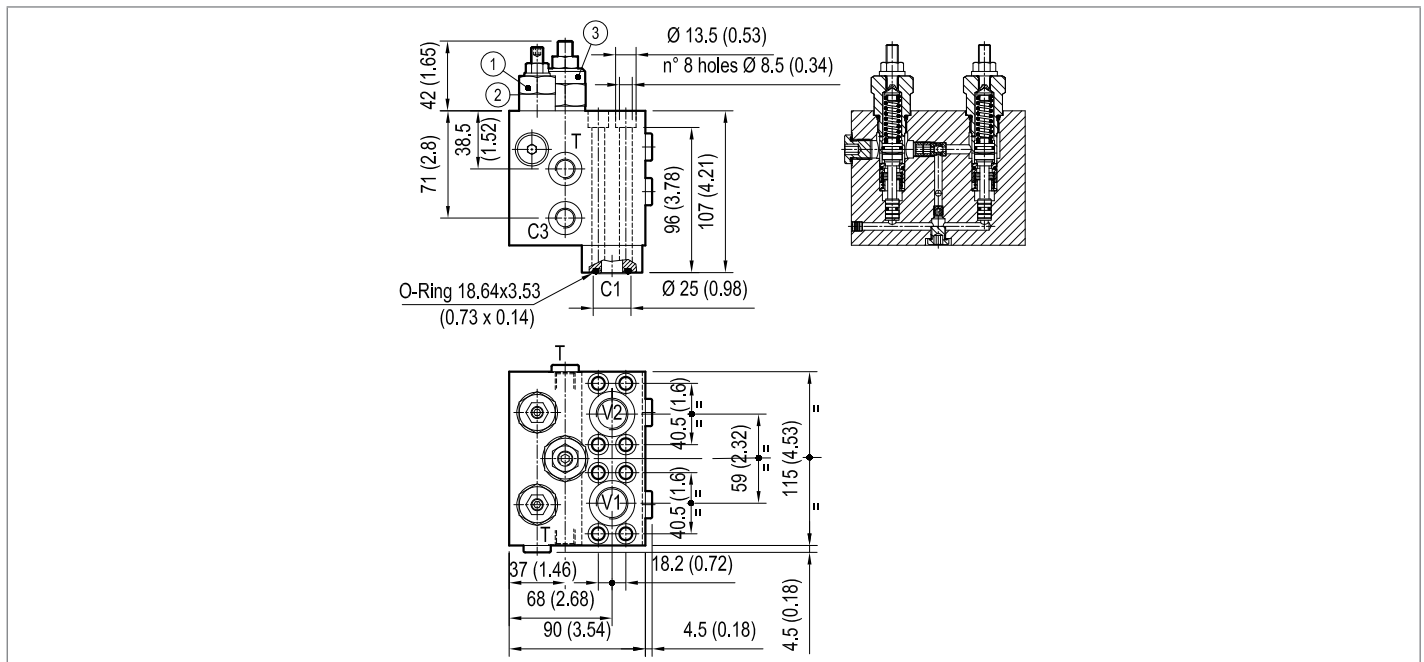


Preferred types

Type	Material number
06020806100000C	R930002732

Type	Material number

Dimensions



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