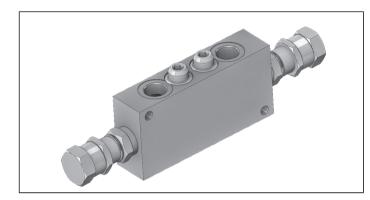


Dual counterbalance relief compensated

VBSO-DE-CC



Description

It provides static and dynamic control of load by regulating the flow IN and OUT of the actuator, through ports C1 and C2. This valve module includes 2 sections, each one composed by a check and a relief valve with balanced piston, pilot assisted by pressure in the opposite line: the check section allows free flow into the actuator, then holds the load against 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 flow. Relief operates at the valve setting independent of back-pressure, but the piloted opening remains subject to additive pressure at V1 or V2.

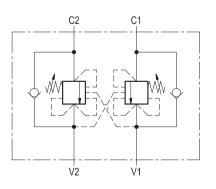
05.42.05 - X - Y - Z

RE 18307-68 Edition: 03.2016 Replaces: 04.2010

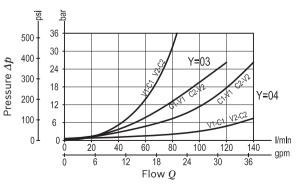
Technical data

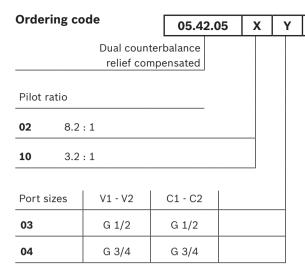
Operating pressure	up to 210 bar (3000 psi)	
Max. flow	see performance graph	
Weight	see "Dimensions"	
Manifold material	Aluminium	
Note: aluminium bodies are often strong enough for operating pressures exceeding 210 bar (3000 psi), depending from the fatigue life expected in the specific application. If in doubt, consult our Service Network.		
Fluid	Mineral oil (HL, HLP) according DIN 51524	
Fluid temperature range	-30 °C to 100 (-22 to 212 °F)	
Viscosity range	5 to 800 mm²/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.



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	54	200
	(900-3000)	(783)	(2900)
35	100-350	95	350
	(1450-5000)	(1378)	(5000)

Tamper resistant cap codeordering code 03.05.01.001Mat. no.R930000470

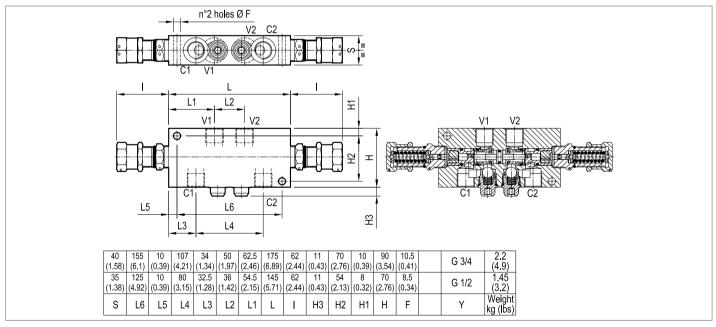
z

Preferred types

Туре	Material number	
054205020320000	R930001786	
05420502033500A	R930001787	
054205020420000	R930001789	
05420502043500B	R930001790	

Туре	Material number
054205100320000	R930001942
05420510033500A	R930001794
054205100420000	R930001943
05420510043500A	R930001799

Dimensions



Bosch Rexroth Oil Control S.p.A.

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