

Dual counterbalance

VBSO-DE-NN



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 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. Back-pressure at V1 or V2 is additive to the pressure setting in all functions.

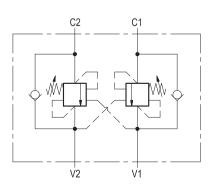
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RE 18307-57 Edition: 03.2016 Replaces: 04.2014

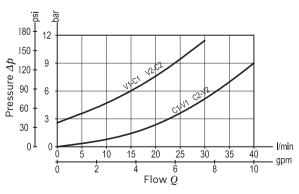
Technical data

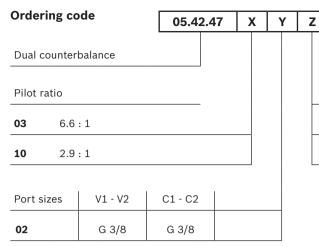
Operating pressure	up to 210 bar (3000 psi)		
Max. flow	40 l/min. (11 gpm)		
Weight	0.8 kg (1.76 lbs)		
Manifold material	Aluminium		
Note: aluminium bodies are often strong enough for operating pressures exceeding 210 bar (3000 psi), depending from the fatigue life expected in the specific application. 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 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.



Characteristic curve



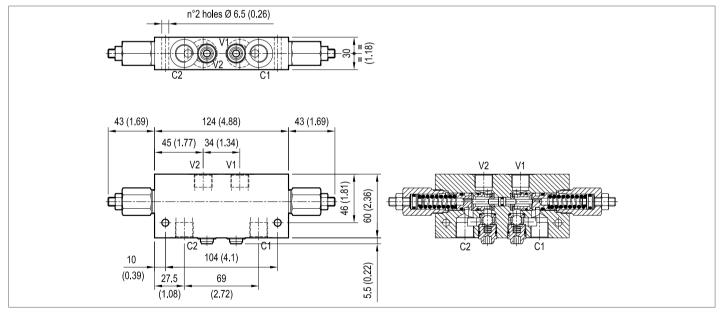


	SPRINGS		
	Adj. pressure	Pres. increase	Std. setting
	range	bar/turn	Q=5 (l/min)
	bar (psi)	(psi/turn)	bar (psi)
20	60-210	54	200
	(900-3000)	(783)	(2900)
35	120-350	118	350
	(1750-5000)	(1711)	(5000)

Preferred types

Туре	Material number	Туре	Material number
054247030220000	R930001858	054247100220000	R930001873
054247030235000	R930001860	054247100235000	R930001875

Dimensions



Bosch Rexroth Oil Control S.p.A.

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