UKŁADY HYDRAULICZNE

Dual counterbalance

VBSO-DE

05.42.01 - X - Y - Z



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.

Technical data

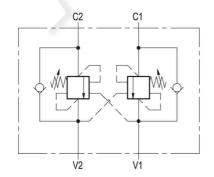
Operating pressure	up to 210 bar (3000 psi)	
Max. flow	see performance graph	
Weight	1.4 kg (3.1 lbs)	
Manifold material Aluminium		

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.

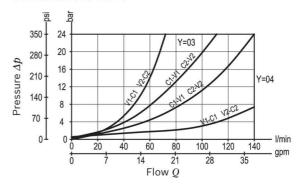
Fluid	Mineral oil (HL, HLP) according DIN 51524
Fluid temperature range	-30 °C to 100 (-22 to 212 °F)
Viscosity range	5 to 800 mm ² /s (cSt)
Recommended degree of fluid contamination	Class 19/17/14 according to ISO 4406

Relief setting: at least 1.3 times the highest expected load.

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



Characteristic curve



Order	ing co	de	05.42.0)1	X	Υ
Dual c	counterb	palance				
Pilot r	atio					
03	8.2 :	1				
10	3.2 :	1				
Port s	izes	V1 - V2	C1 - C2			

G 1/2

G 3/4

		SPRINGS	
	Adj. pressure range	Pres. increase bar/turn	Std. setting Q=5 (I/min)
	bar (psi)	(psi/turn)	bar (psi)
20	60-210	64	200
	(900-3000)	(928)	(2900)
35	120-350	106	350
	(1750-5000)	(1537)	(5000)

Tamper resistant cap code ordering code 11.04.23.003 Mat. no. R930000754

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Preferred types

03

04

Туре	Material number	
054201030320000	R930001758	
05420103033500A	R930001761	
054201030420000	R930001771	
05420103043500A	R930001773	

G 1/2

G 3/4

Туре	Material number	
054201100320000	R930005704	
05420110033500A	R930001776	
054201100420000	R930000981	
05420110043500A	R930001781	

Dimensions

