

The Drive & Control Company



Single counterbalance, relief compensated

A-VBSO-SE-CC-30

08.43.96 - X - Y - Z

RE 18307-47

Edition: 03.2016 Replaces: 04.2010



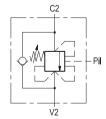
Description

When pressure at V2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from V2 to C2. When load pressure at C2 rises above the setting, the direct-acting relief function is activated and flow is relieved from C2 to V2. With pilot pressure at Pil, the pressure setting is reduced in proportion to the stated ratio, until opening and allowing flow from C2 to V2. The spring chamber is drained to V2. The valve applies a balanced piston allowing relief at the valve setting independent of back-pressure at V2. However, the piloted opening of the valve remains subject to additive pressure at port V2.

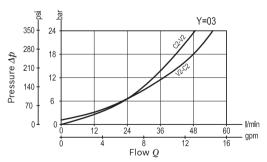
Technical data

410 bar (5945 psi)		
60 l/min. (16 gpm)		
see "Dimensions"		
Zinc plated steel		
Mineral oil (HL, HLP) according DIN 51524		
-30 °C to 100 (-22 to 212 °F)		
5 to 800 mm ² /s (cSt)		
Class 19/17/14 according to ISO 4406		
150 years see data sheet 18350-51		
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



 $\label{eq:RE18307-47/03.2016} \textbf{RE}~18307\text{-}47/03.2016, \textbf{Bosch Rexroth Oil Control S.p.A.}$



2 A-VBSO-SE-CC-30 | Single counterbalance

Dimensions [mm (inches)]

Ordering code	08.43.96	X	Y	Z			
Single counterbalance, relief compensated						SPRINGS	
					Adj. pressure	Pres. increase	Std. setting
Pilot ratio					range	bar/turn	Q=5 (I/min)
				bar (psi)	(psi/turn)	bar (psi)	
	60-210	75	200				
03 4.2 : 1		20 (870-3000)	(870-3000)	(1088)	(2900)		
			35	100-350	165	350	
				35	(1450-5000)	(2393)	(5000)
	Pressure setting up			ure setting up to 11	0 har code on reque	oct.	

Pressure setting up to 410 bar: code on request.

Port sizes	V2	C2	Pil
02	G 3/8	G 3/8	G 3/8
03	G 1/2	G 1/2	G 1/4

Tamper resistar	nt cap code	
ordering code 1	11.04.23.003	
Mat. no. F	R930000754	

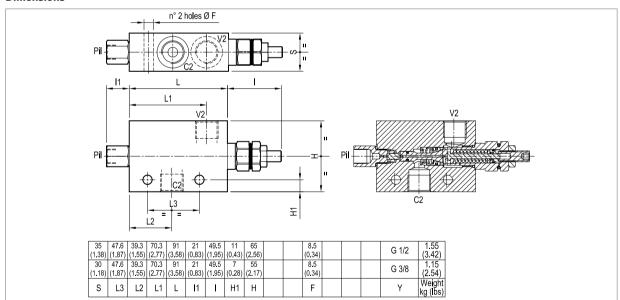
Preferred types

Ordering code

Туре	Material number
08439603022000A	R930007270
08439603023500A	R930007271
08439603032000A	R930007272
08439603033500A	R930007273

Туре	Material number

Dimensions



Bosch Rexroth Oil Control S.p.A.

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Bosch Rexroth Oil Control S.p.A., RE 18307-47/03.2016