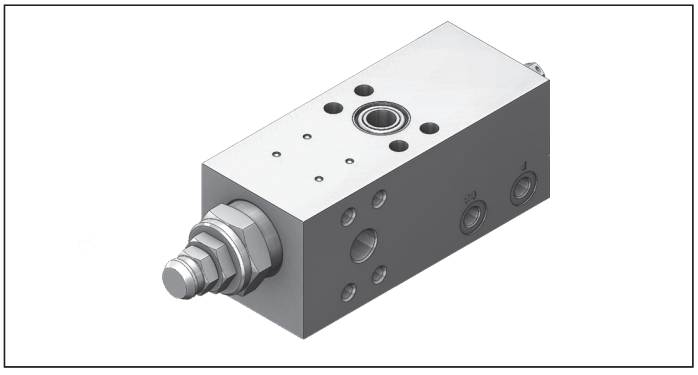
Single counterbalance with brake release port for winches flangeable

A-VBSO-SE-FA-42

08.45.38 - X - Y - Z

RE 18308-42
Edition: 03.2016
Replaces: 12.2015



Description

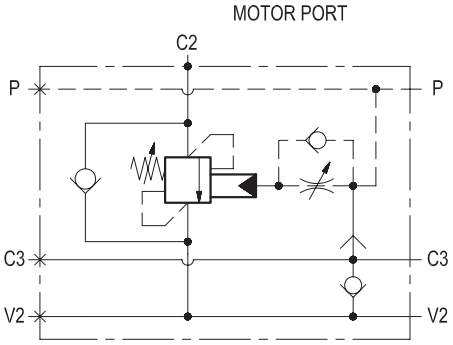
When pressure at V2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from V2 to C2. When load pressure at C2 rises above the pressure setting, the direct operated, differential area, relief function is activated and flow is relieved from C2 to V2. With pilot pressure at P, the pressure setting is reduced in proportion to the stated ratio of the valve, until opening and allowing flow from C2 to V2. The spring chamber is drained to V2, and any back-pressure at V2 is additive to the pressure setting in all functions. Through port C3, an incorporated shuttle valve directs either P or V2 line pressure to the spring actuated brake for brake opening.

Technical data

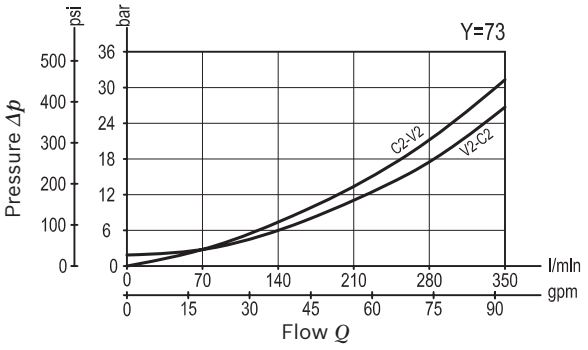
Max. operating pressure	410 bar (5945 psi)
Max. flow	350 l/min. (93 gpm)
The high pilot ratio (13:1) has been developed for energy saving; for higher stability at all flows and pressures, the pilot line includes hydraulic damping.	
The C2 port is designed with “SAE flange” pattern in order to be gasket mounted directly to the motor.	
Relief setting: at least 1.3 times the highest expected load. In addition, both the relief setting and the pilot ratio must be determined also in order to achieve building-up of pilot pressure in V1 high enough to release the brake prior to any valve opening from C2 to V2.	
Weight	see “Dimensions”
Manifold material	Zinc plated steel
Flange seal kit [1]	E00000000000002 (R930004532)
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 10 valves



Characteristic curve



Ordering code

08.45.38	X	Y	Z

Single counterbalance,
with brake release port for winches
flangeable

Pilot ratio

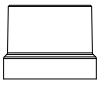
13 13:1

Port sizes	V2 - C2	C3 - P	
72	3/4 SAE6000	G 1/4	
73	1 SAE6000	G 1/4	
64	1-1/4 SAE6000	G 1/4	

	SPRINGS		
	Adj. pressure range bar (psi)	Pres. increase bar/turn (psi/turn)	Std. setting Q=5 (l/min) bar (psi)
35	250-500 (3625-7250)	102 (1479)	500 (7250)

Pressure setting up to 410 bar: code on request.

Tamper resistant cap
ordering code 11.04.30.001
Mat. no. R930005194

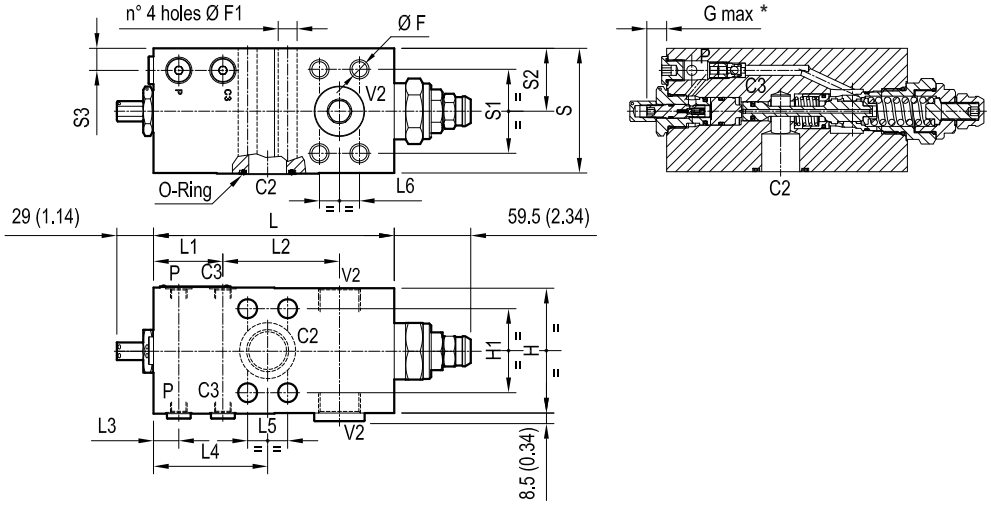


Preferred types

Type	Material number
08453813723500E	R930050895
08453813733500G	R930050897

Type	Material number
08453813643500E	R930051159

Dimensions



17.5 (0.69)	48 (1.89)	66.7 (2.63)	98 (3.86)	31.8 (1.25)	31.8 (1.25)	90.5 (3.56)	20 (0.79)	92.5 (3.64)	55 (2.17)	191 (7.52)	66.7 (2.63)	98 (3.86)	15 (0.59)	M14	19 (0.75)	36.09x3.53 (1.42x0.14)	64	13.3 (29.3)
16 (0.63)	40 (1.58)	57.2 (2.25)	79 (3.11)	27.8 (1.1)	27.8 (1.1)	91 (3.58)	20 (0.79)	85 (3.35)	59 (2.32)	191 (7.52)	57.2 (2.25)	79 (3.11)	12.5 (0.49)	M12	21 (0.83)	32.92x3.53 (1.3x0.14)	73	8.7 (19.2)
16 (0.63)	39.5 (1.56)	50.8 (2)	79 (3.11)	23.8 (0.94)	23.8 (0.94)	91 (3.58)	20 (0.79)	85 (3.35)	59 (2.32)	191 (7.52)	50.8 (2)	79 (3.11)	10.5 (0.41)	M10	19 (0.75)	23.39x3.53 (0.92x0.14)	72	8.8 (19.4)
S3	S2	S1	S	L6	L5	L4	L3	L2	L1	L	H1	H	F1	F	G	O-Ring	Y	Weight kg (lbs)

* The adjusting screw can be completely unscrewed. Do not exceed the indicated protrusion range of the adjusted screw.

Bosch Rexroth Oil Control S.p.A.
Via Leonardo da Vinci 5
P.O. Box no. 5
41015 Nonantola – Modena, Italy
Tel. +39 059 887 611
Fax +39 059 547 848
compact-hydraulics-pib@boschrexroth.com
www.boschrexroth.com/compacthydraulics