

Dual counterbalance

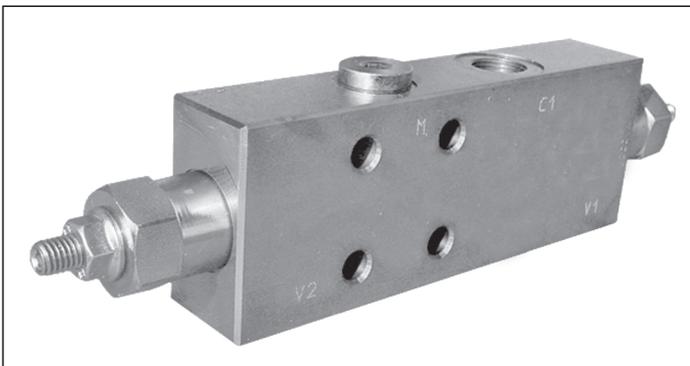
A-VBSO-DE-30-FC1

08.44.30 - X - Y - Z

RE 18307-60

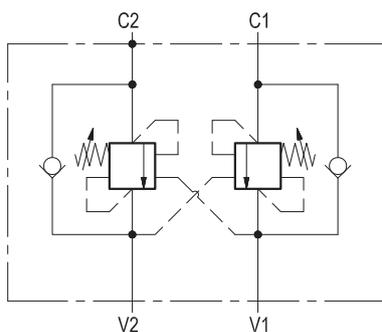
Edition: 02.2022

Replaces: 05.2017



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. For better safety and compact assembly, the C2 port is gasket mounted directly on the actuator.



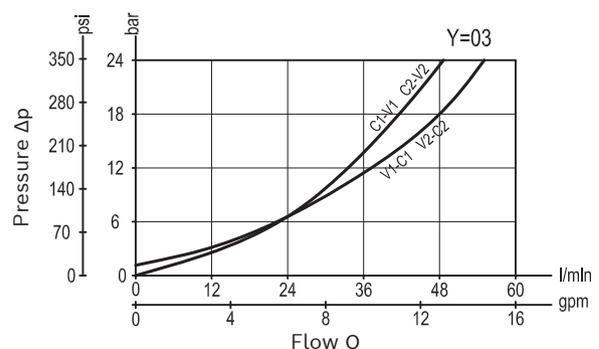
Technical data

| | |
|---|---|
| Max. operating pressure | 410 bar (5945 psi) |
| Max. flow | 60 l/min. (16 gpm) |
| Weight | see "Dimensions" |
| Manifold material | Zinc plated steel |
| Flange seal kit ¹⁾ | E00000000000056 (R930060579) |
| 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 |
| MTTFd | 150 years see data sheet 18350-51 |
| 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.

¹⁾ Seals for 10 valves.

Characteristic curve



Ordering code

| | | | |
|-----------------|----------|----------|----------|
| 08.44.30 | X | Y | Z |
|-----------------|----------|----------|----------|

| | |
|---------------------|---------|
| Dual counterbalance | |
| Pilot ratio | |
| 03 | 4.2 : 1 |

| Port sizes | V1 - V2 - C1 | C2 | M |
|------------|--------------|------------|-------|
| 02 | G 3/8 | ∅ 9 (0.35) | G 1/4 |
| 03 | G 1/2 | ∅ 9 (0.35) | G 1/4 |

| | SPRINGS | | |
|-----------|-------------------------------|------------------------------------|------------------------------------|
| | Adj. pressure range bar (psi) | Pres. increase bar/turn (psi/turn) | Std. setting Q=5 (l/min) bar (psi) |
| 20 | 60-210 (870-3000) | 63 (914) | 200 (2900) |
| 35 | 180-350 (2610-5000) | 138 (2001) | 350 (5000) |

Pressure setting up to 410 bar: code on request.

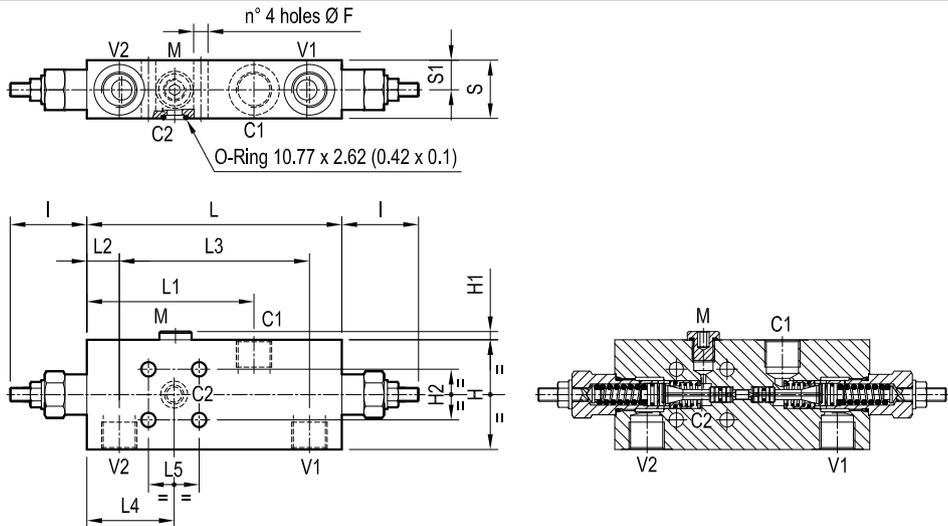
Tamper resistant cap ordering code 11.04.23.002
 Mat. no. R930000752 

Preferred types

| Type | Material number |
|-----------------|-----------------|
| 084430030220000 | R930003428 |
| 08443003023500B | R930003429 |

| Type | Material number |
|-----------------|-----------------|
| 08443003033500A | R930003432 |

Dimensions



n° 4 holes ∅ F

O-Ring 10.77 x 2.62 (0.42 x 0.1)

| | | | | | | | | | | | | | | | | |
|----------------|----------------|--------------|----------------|-----------------|----------------|----------------|---------------|----------------|--------------|------------|--------------|---------------|--|--|-------|--------------------|
| 17.5 (0.69) | 34.5 (1.36) | 30 (1.18) | 51.7 (2.04) | 112.6 (4.43) | 19.2 (0.76) | 99.3 (3.91) | 151 (5.95) | 45.5 (1.79) | 30 (1.18) | 5 (0.2) | 65 (2.56) | 8.5 (0.34) | | | G 1/2 | 2.2 (4.9) |
| 14.8 (0.58) | 29.5 (1.16) | 30 (1.18) | 51.7 (2.04) | 109.6 (4.32) | 20.7 (0.82) | 99.3 (3.91) | 151 (5.95) | 45.5 (1.79) | 30 (1.18) | 5 (0.2) | 55 (2.17) | 8.5 (0.34) | | | G 3/8 | 1.7 (3.8) |
| S1 | S | L5 | L4 | L3 | L2 | L1 | L | I | H2 | H1 | H | F | | | Y | Weight kg (lbs) |