

# Dual counterbalance

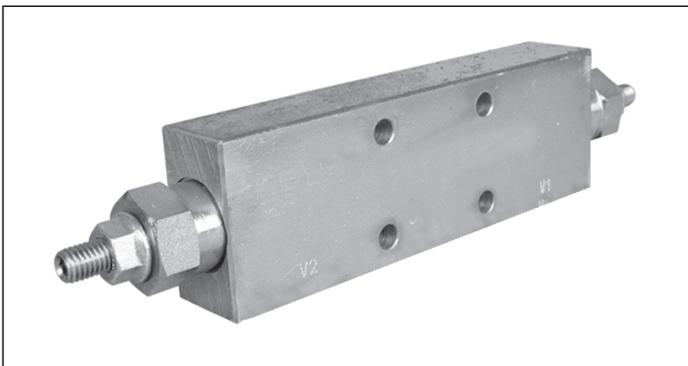
A-VBSO-DE-78-FC2

08.46.36 - X - Y - Z

**RE 18307-56**

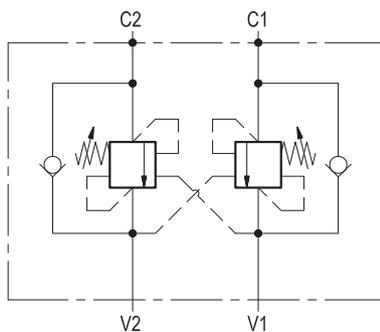
Edition: 03.2016

Replaces: 04.2014



## 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 C1 and C2 ports are gasket mounted directly on the actuator.



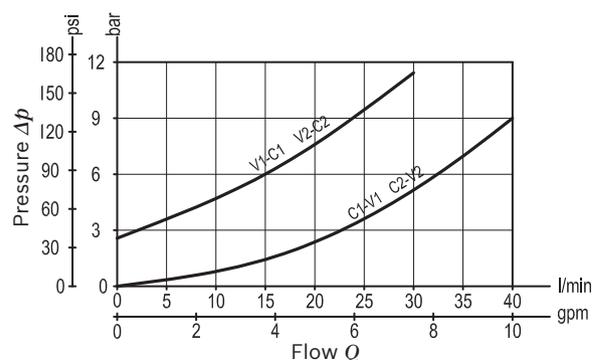
## Technical data

|   |   |
|---|---|
| Max. operating pressure                   | 350 bar (5000 psi)                            |
| Max. flow                                 | 40 l/min. (11 gpm)                            |
| Weight                                    | 1.2 kg (2.7 lbs)                              |
| Manifold material                         | Zinc plated steel                             |
| Flange seal kit <sup>1)</sup>             | E00000000000031 (R930005645)                  |
| 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 <sup>2</sup> /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.

<sup>1)</sup> Seals for 10 valves.

## Characteristic curve



**Ordering code**

|                 |          |          |          |
|-----------------|----------|----------|----------|
| <b>08.46.36</b> | <b>X</b> | <b>Y</b> | <b>Z</b> |
|-----------------|----------|----------|----------|

Dual counterbalance

Pilot ratio

**03** 4.1 : 1

|            |         |            |  |
|------------|---------|------------|--|
| Port sizes | V1 - V2 | C1 - C2    |  |
| <b>09</b>  | G 1/4   | Ø 6 (0.24) |  |

| SPRINGS                       |                                    |                                    |
|-------------------------------|------------------------------------|------------------------------------|
| Adj. pressure range bar (psi) | Pres. increase bar/turn (psi/turn) | Std. setting Q=5 (l/min) bar (psi) |
| <b>35</b> 200-350 (2900-5000) | 175 (2538)                         | 350 (5000)                         |

Tamper resistant cap code ordering code 11.04.23.002  
Mat. no. R930000752 

**Preferred types**

| Type            | Material number |
|-----------------|-----------------|
| 084636030935000 | R930003638      |

| Type | Material number |
|------|-----------------|
|      |                 |

**Dimensions**

