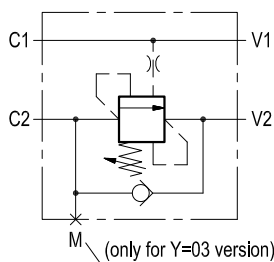


## Single counterbalance

A-VBSO-SE-30-PL

08.45.16 - X - Y - Z



### 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 V1-C1, 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.

### Technical data

#### Hydraulic

|                         |             |            |
|-------------------------|-------------|------------|
| Max. operating pressure | bar (psi)   | 350 (5000) |
| Max. flow               | l/min (gpm) | 60 (16)    |

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

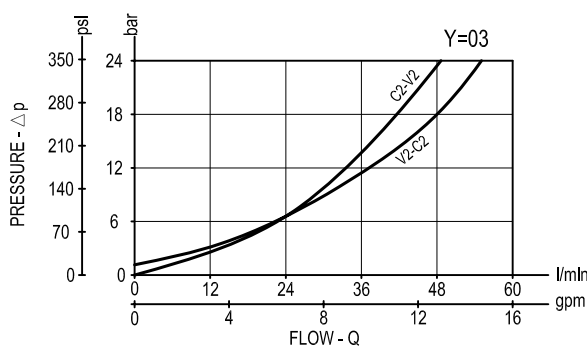
For higher stability at all flows and pressures, the pilot line includes hydraulic damping.

#### General

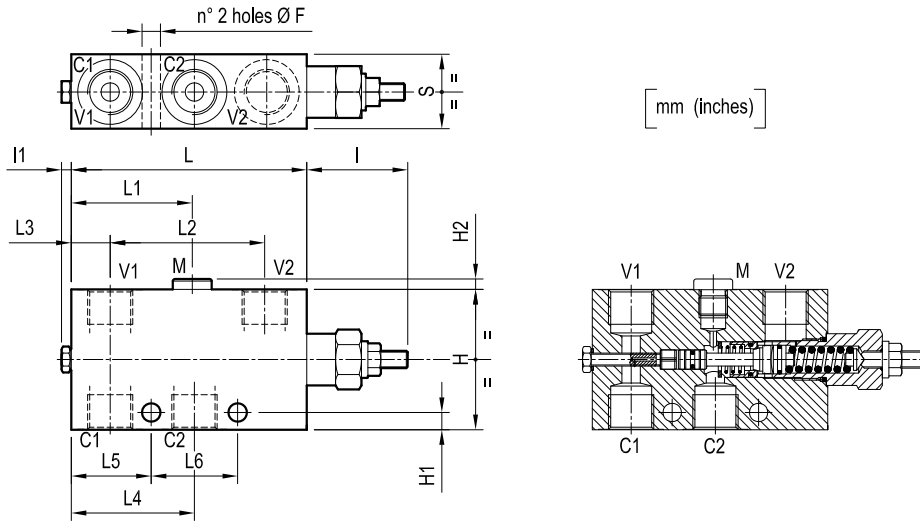
|                         |  |
|-------------------------|--|
| Manifold material       | Steel                                    |
| Weight                  | see "Dimensions"                         |
| Fluid temperature range | °C (°F) between -30 (-22) and +100 (212) |
| Other technical data    | see data sheet RE 18350-50               |

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

### Performance



Dimensions



|              |              |                |                |              |             |                |               |               |              |            |             |              |               |       |                    |
|--------------|--------------|----------------|----------------|--------------|-------------|----------------|---------------|---------------|--------------|------------|-------------|--------------|---------------|-------|--------------------|
| 35<br>(1.38) | 40<br>(1.58) | 37.3<br>(1.47) | 57.3<br>(2.26) | 18<br>(0.71) | 71<br>(2.8) | 55.3<br>(2.18) | 109<br>(4.29) | 4.5<br>(0.18) | 47<br>(1.85) | 5<br>(0.2) | 8<br>(0.32) | 65<br>(2.56) | 8.5<br>(0.34) | G 1/2 | 1.81<br>(3.99)     |
| 30<br>(1.18) | 40<br>(1.58) | 37.3<br>(1.47) | 57.3<br>(2.26) | 18<br>(0.71) | 71<br>(2.8) | -              | 109<br>(4.29) | 4.5<br>(0.18) | 47<br>(1.85) | -          | 8<br>(0.32) | 55<br>(2.17) | 8.5<br>(0.34) | G 3/8 | 1.3<br>(2.87)      |
| S            | L6           | L5             | L4             | L3           | L2          | L1             | L             | I1            | I            | H2         | H1          | H            | F             | Y     | Weight<br>kg (lbs) |

Ordering code

**08.45.16** X Y Z

Single counterbalance

Pilot ratio

= 03 4.2:1

| Port sizes | V1-V2 | C1-C2 | M     |
|------------|-------|-------|-------|
| = 02       | G 3/8 | G 3/8 | /     |
| = 03       | G 1/2 | G 1/2 | G 1/4 |

|      | SPRINGS                          |                                       |   |
|------|----------------------------------|---------------------------------------|---|
|      | Adj. pressure range<br>bar (psi) | Pres. increase<br>bar/turn (psi/turn) | Std. setting<br>Q=5 (l/min.)<br>bar (psi) |
| = 20 | 60-210<br>(870-3000)             | 63<br>(914)                           | 200<br>(2900)                             |
| = 35 | 100-350<br>(1450-5000)           | 138<br>(2001)                         | 350<br>(5000)                             |

Tamper resistant cap  
code 11.04.23.002  
R930000752



| Type            | Material number |
|-----------------|-----------------|
| 08451603022000A | R930003475      |
| 08451603023500B | R930003476      |
| 08451603032000B | R930003480      |
| 08451603033500B | R930003481      |

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