

Dual cross over relief, pilot operated with anti-cavitation check valves

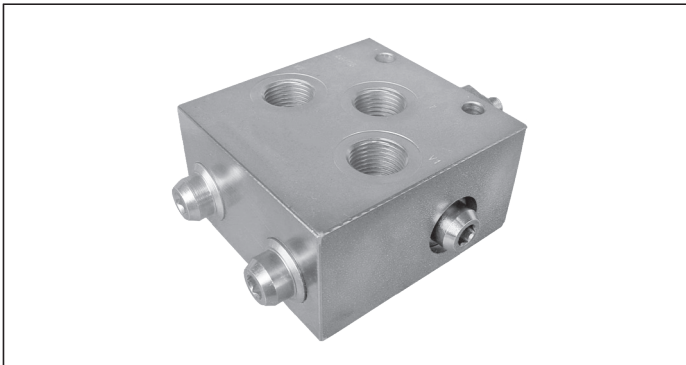
A-VAA-CC-150

08.81.11 - X - Y - Z

RE 18308-24

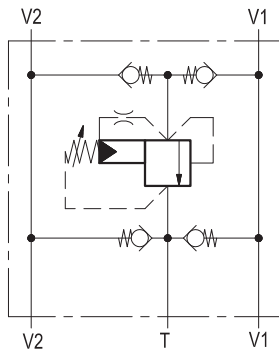
Edition: 03.2016

Replaces: 04.2010



Description

It relieves the inlet pressure from either one of the supply lines and it protects motors or hydraulic actuators from shocks or pressure surges induced by changes in direction or by sudden stops. The relief is of the cross over type, and exhausted oil is transferred through the check valve to the low pressure line (from V1 into V2, or vice-versa) to prevent cavitation. An extra tank port (T), with 2 additional checks, allows to make up for any drain or exhausted flow and ensures that the motor is always full.

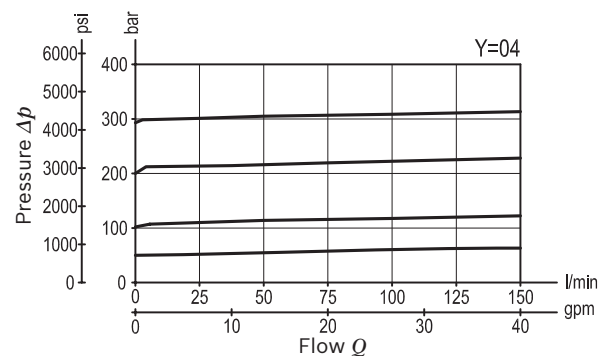


Technical data

| | |
|---|---|
| Max. operating pressure | 350 bar (5000 psi) |
| Max. flow | 150 l/min. (40 gpm) |
| Leakage at max. relief setting | 0.10 l/min. (0.03 gpm) |
| Weight | see "Dimensions" |
| Manifold material | Zinc plated steel |
| The pilot operated relief cartridge provides very "flat" curves up to the max flow. | |
| For best protection, the valve should be fitted as close to the actuator as possible. | |
| 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.

Characteristic curve



Ordering code

| | | | |
|-----------------|----------|----------|----------|
| 08.81.11 | X | Y | Z |
|-----------------|----------|----------|----------|

Dual cross over relief, pilot operated with anti-cavitation check valves

Adjustments

03 Leakproof hex. socket screw



| SPRINGS | | |
|-------------------------------|------------------------------------|------------------------------------|
| Adj. pressure range bar (psi) | Pres. increase bar/turn (psi/turn) | Std. setting Q=5 (l/min) bar (psi) |
| 40 35-420 (500-6000) | 115 (1668) | 350 (5000) |

Tamper resistant cap ordering code 11.04.23.004
Mat. no . R930001411



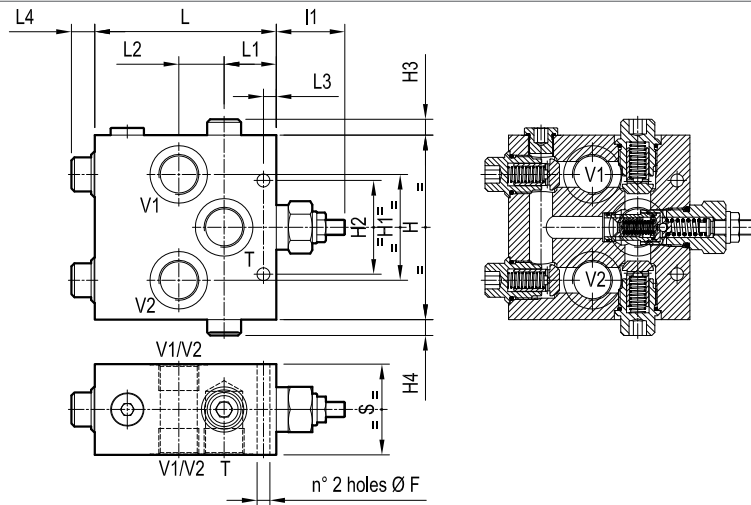
| Port sizes | P | T | |
|------------|-------|-------|--|
| 03 | G 1/2 | G 1/2 | |
| 04 | G 3/4 | G 3/4 | |
| 05 | G 1 | G 1 | |

Preferred types

| Type | Material number |
|-----------------|-----------------|
| 088111030340000 | R930004103 |
| 088111030440000 | R930004104 |

| Type | Material number |
|-----------------|-----------------|
| 088111030540000 | R930004106 |

Dimensions



| | | | | | | | | | | | | | | | | |
|----------------|----------------|---------------|----------------|----------------|---------------|----------------|----------------|----------------|--------------|--------------|---------------|---------------|--|--|-------|--------------------|
| 59.5 (2.34) | 15.5 (0.61) | 7 (0.28) | 40 (1.57) | 34 (1.34) | 134 (5.28) | 45.5 (1.79) | 9 (0.35) | 9 (0.35) | 72 (2.83) | 80 (3.15) | 146 (5.75) | 8.5 (0.33) | | | G 1 | 7.7 (17) |
| 60 (2.36) | 15.5 (0.61) | 8.5 (0.33) | 30 (1.18) | 34.5 (1.36) | 120 (4.72) | 45.5 (1.79) | 10.5 (0.41) | 10.5 (0.41) | 62 (2.44) | 70 (2.76) | 122 (4.8) | 8.5 (0.33) | | | G 3/4 | 6.1 (13.4) |
| 50 (1.97) | 15.5 (0.61) | 8 (0.31) | 23.5 (0.93) | 33 (1.3) | 95 (3.74) | 45.5 (1.79) | 10.5 (0.41) | 10.5 (0.41) | 50 (1.97) | 52 (2.05) | 90 (3.54) | 8.5 (0.33) | | | G 1/2 | 3 (6.6) |
| S | L4 | L3 | L2 | L1 | L | I1 | H4 | H3 | H2 | H1 | H | F | | | Y | Weight kg (lbs) |

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