

## STACKABLE VALVES PILOT OPERATED

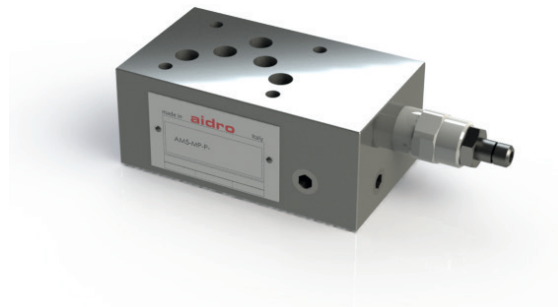
### AM5-MP-\*

100 l/min 32 MPa (320 bar)

#### 1 DESCRIPTION

Stackable pressure relief valve pilot operated. The valve is made with a steel body combined with a pressure relief cartridge valve pilot operated for a stable pressure control.

The body of the valve is phosphate coated. The cartridge valve is zinc coated. The pressure can be set in different pressure ranges.



#### 2 ORDERING CODE

| (1) | (2) | (3) | (4) | (5) | (6) | (7)  |
|-----|-----|-----|-----|-----|-----|------|
| AM5 | -   | MP  | -   | /   | -   | / 10 |

(1) AM5: stackable valve CETOP 05 - Pressure 32 MPa (320 bar)

(2) MP: pressure relief-pilot operated (hydraulically)

(3) Service lines where the controls operates:

P : relief on P and discharge to T

A : relief on A and discharge to T

BA: independent relief on B and on A and discharge to T

AB: relief on A and B with crossed discharge

(4) Pressure adjustment ranges:

6,3 from 10 to 70 bar

12,5 from 10 to 140 bar

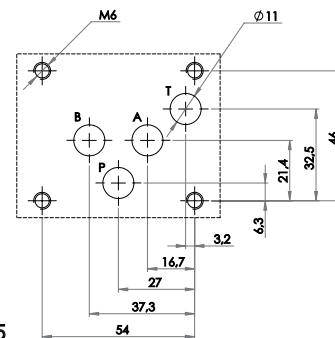
20 from 20 to 210 bar

32 from 20 to 320 bar

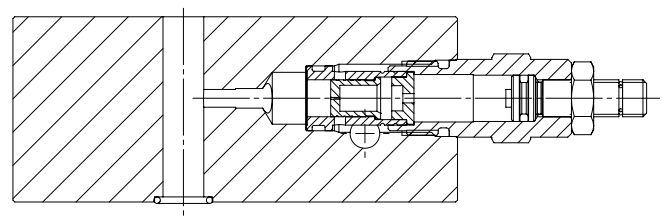
(5) pressure adjustment range for relief on A (only for models AM5-MP-BA or for relief on B for models AM5-MP-AB)

(6) code reserved for special variants (materials, seals, surface treatments, etc.)

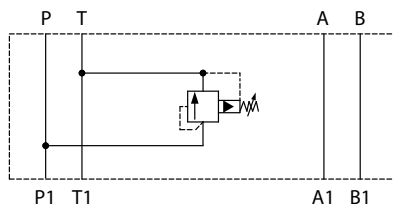
(7) Design number (progressive) of the valves



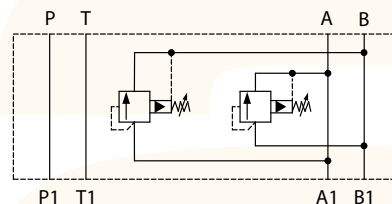
ISO 4401-05



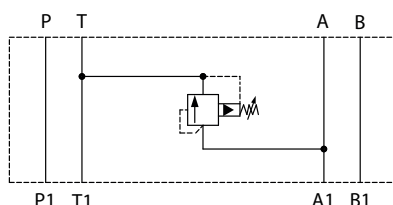
AM5-MP-P



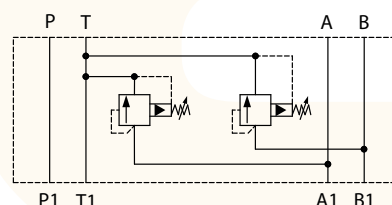
AM5-MP-AB



AM5-MP-A



AM5-MP-BA

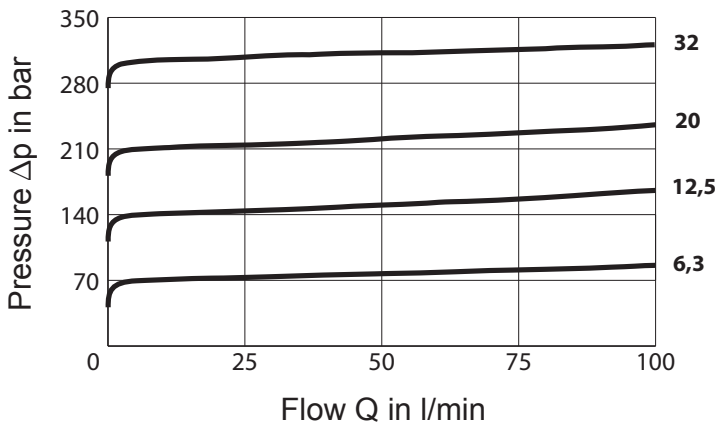


### 3 TECHNICAL DATA

|                             |                  |   |
|-----------------------------|------------------|---|
| Maximum rec. flow rate      | 100 l/min        | Adjustment of the relief pressure:  |
| Maximum nominal pressure    | 32 MPa (320 bar) | Relief pressure is reached when the axial hydraulic forces on piston equal the force of spring; the value of the relief pressure can be therefore changed, within the limits of the chosen adjustment range, by changing the compression of spring. To increase the relief pressure, turn clock wise the adjustment screw ch.5 , after having unlocked its nut ch.17. |
| Pressure relief curves      | see [4]          | The pressure gradient is approx:  |
| Installation and dimensions | see [5]          | 6,3 : 20 bar/turn   |
| mass:                       |                  | 12,5 : 40 bar/turn  |
| AM5-MP-P                    | approx 2,7 Kg    | 20 : 63 bar/turn  |
| AM5-MP-AB                   | approx 3,6 Kg    | 32 : 100 bar/turn   |
|                             |                  | When the required level of pressure is reached, lock the nut.   |

### 4 TYPICAL DIAGRAMS

Typical  $\Delta p$ -Q curves for valves AM5-CP-AB in standard configuration, with mineral oil at 36 cSt and at 50°C.



### 5 HYDRAULIC FLUIDS

Seals and materials used on standard valves AM5-\* are fully compatible with hydraulic fluids of mineral oil base, upgraded with antifoaming and antioxidantizing agents. The hydraulic fluid must be kept clean and filtered to ISO 4406 class 19/17/14, or better, and used in a recommended viscosity range from 10 cSt to 60 cSt

All stackable valves AM5-MP-\* conform with ISO and CETOP specifications for mounting surface dimensions (see also front page) and for valves height (50mm). Leakage between valve and mounting surface is prevented by the positive compression on their seats of 5 seals (OR 2050).

### 6 INSTALLATION DIMENSIONS

