## 도두무



## PRESSURE RELIEF VALVES

AM3-MO-*
$60 \mathrm{l} / \mathrm{min}$ - 32 MPa (320 bar)

## 1 DESCRIPTION

Stackable pressure relief valve direct operated. The valve is made with a steel body combined with a pressure relief cartridge valve with an anti vibration system.
The body of the valve is phosphate coated. The cartridge valve is zinc coated. The pressure can be set in different pressure ranges.


## ORDERING CODE

| $(1)$ |  | $(2)$ |  | $(3)$ |  | $(4)$ |  | $(5)$ |  | $(6)$ |  | $(7)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AM3 | - | MO | - |  | $/$ |  | $/$ |  | - |  | $/$ | 10 |

(1) AM3: stackable valve CETOP 03 - Pressure 32 MPa ( 320 bar)
(2) MO: pressure relief, direct acting
(3) Service lines where the controls operate:
$P$ : relief on $P$ and discharge to $T$
A: relief on $A$ and discharge to $T$
$B$ : relief on $B$ and discharge to $T$
$B A$ : indipendent relief on $B$ and on $A$ and discharge to $T$
(4) Pressure adjustment ranges:

10: from $2,5 \mathrm{MPa}$ to $12,5 \mathrm{MPa}$ (from 25 to 125 bar )
20: from 4 MPa to 25 MPa (from 40 to 250 bar)
32: from 10 MPa to 32 MPa (from 100 to 320 bar)
(5) Pressure adjustment range for relief on $A$ (only for models AM3-MO-BA) see 4
(6) Code reserved for more options and variants

M : hand knob
V: viton seals
(7) Design number (progressive) of the valves


AM3-MO-B

AM3-MO-A
hydraulics

## TECHNICAL DATA

Maximum nominal flow
Maximum rec. flow rate on free lines
On protected lines
Maximum nominal pressure
Pressure relief curves
Installation and dimensions
Masses
АМЗ-MO-P or B
AM3-MO-BA
$1 \mathrm{dm}^{3} / \mathrm{s}(60 \mathrm{l} / \mathrm{min})$
$0,5 \mathrm{dm}^{3} / \mathrm{s}$
approx $32 / / \mathrm{min}$
32 MPa ( 320 bar )
see 4
see 5
approx 1,7 kg
approx $2,3 \mathrm{~kg}$

## TYPICAL DIAGRAMS

Typical $\Delta \mathrm{p}$-Q curves for valves AM3-MO-* in standard configuration, with mineral oil at 36 CSt and at $50^{\circ} \mathrm{C}$


## HYDRAULIC FLUIDS

Seals and materials used on standard valves AM3 - * are fully coMPatible with hydraulic fluids of mineral oil base, upgraded with antifoaming and antioxidizing 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 AM3-* conform with ISO and CETOP specifications for mounting surface dimensions. Valves height 40 mm . Leakage between valve and mounting surface is prevented by the positive compression on their seats of 4 seals of OR type. All valves have on their "mounting" surface a $\varnothing 4 \mathrm{~mm}$ cylindrical hole and have on their "seals" surface a $\varnothing 3 \mathrm{~mm}$ locating pin, to conform with the norms. In case of necessity, the pin can be easily removed.

Adjustment of the relief pressure:
Relief pressure is reached when the axial hydraulic forces on piston 3 equal the force of spring 5 ; the value of the relief pressure can be therefore changed, within the limits of the chosen adjustment range, by changing the compression of spring 5 . To increase the relief pressure, turn clock wise the adjustment screw 4 , after having unlocked ist nut 6. For each pressure adjustment range, the pressure gradient is approx:

10: $1,6 \mathrm{MPa} / \mathrm{mm}$ (24 bar/turn)
20: 3,2 MPa/mm (48 bar/turn)
32: $5 \mathrm{MPa} / \mathrm{mm}$ ( 75 bar/turn)
When the required level of pressure is reached, lock the nut 6 .

## INSTALLATION DIMENSIONS (mm)



AM3-MO-BA


