Unidirectional blocking valves are safety devices which can block the cylinder rod when, accidentally, the pressure fails. Bidirectional blocking valves are used to block the cylinder rod when the bistable $5 / 2$ valve that controls it has deenergized pilots. In this case the $5 / 3$ function is obtained.

Max. working pressure: 10 bar
Ambient and fluid temperature: $-20 \div+180^{\circ} \mathrm{C}$
Fluid temperature: $50^{\circ} \mathrm{C}$ max.

Body: die-cast zamak
Oil proof seals
Fluid: filtered air with or without lubrication


Functioning: the valve allows the air flow from 2 to 1 (or from 1 to 2) only when it receives the control signal.
Use: when mounted
Use: when mounted on the cylinder openings it allows the 3 position operation (closed centres) although a $5 / 2$ valve controls the cylinder. This is reached by connecting to the $5 / 2$ valve and controlling the two valves at the same time through an OR. The OR inputs must be connected to the control
impulses of the $5 / 2$ valve.

| Type | Symbol | Function | Ports | Capacity NI/min | $\varnothing$ mm | Pressure bar | $\begin{gathered} \text { Mass } \\ \mathrm{kg} \end{gathered}$ | Part number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | unidirectional | G $1 / 8$ | 620 | 6,5 | $1,5 \div 10$ | 0,110 | AM-5500 |
|  |  |  | G $1 / 4$ | 620 | 6,5 |  | 0,110 | AM-5501 |
|  |  |  | G $1 / 4$ | 2100 | 9,5 |  | 0,110 | AM-5502 |
|  |  |  | G 3/8 | 2100 | 9,5 |  | 0,150 | AM-5503 |
|  |  |  | G 1/2 | 3500 | 15 |  | 0,360 | AM-5504 |
|  |  |  | G $1 / 8$ | 620 | 6,5 |  | 0,110 | AM-5510 |
| 5 | 2 |  | G 1/4 | 620 | 6,5 |  | 0,110 | AM-5511 |
| $\rightarrow-$ | $\rightarrow-\Delta \sim{ }_{-}^{+} M$ | bidirectional | G 1/4 | 2100 | 9,5 | $1,5 \div 10$ | 0,110 | AM-5512 |
|  |  |  | G 3/8 | 2100 | 9,5 |  | 0,150 | AM-5513 |
|  |  |  | G 1/2 | 3500 | 15 |  | 0,360 | AM-5514 |

## Overall dimensions

Blocking valves with G 1/8-G1/4 ports
Blocking valves with G $1 / 4-\mathrm{G} 1 / 8-\mathrm{G} 1 / 2$ ports



| A | B | C | D | E | F | G | H | I | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 46 | 58 | 24 | 31 | 29 | 20 | 18,5 | G $1 / 8$ <br> G $1 / 4$ | 31 | 4,25 |
| 50 | 65 | 28 | 35 | 38 | 21 | 24,5 | G $1 / 4$ <br> G 3/8 | 37 | 5,25 |
| 67 | 81 | 40 | 46 | 48 | 27 | 28,5 | G $1 / 2$ | 42 | 6,25 |

