

# TRIPLE FUNCTION AIR VALVE

## with isolating valve

### DN 50 - 200 PN25

06.301



#### Product description

- Triple function air valve with isolating valve for drinking water, prepared for water supply in firefighting and irrigation systems
- Service temperature from 0°C (excluding frost) to 70°C

#### Standards

- Designed according to EN 1074-4
- Flange drilling to EN 1092-2 PN25

#### Tests

All valves are individually hydrostatically tested according to EN 1074-4:

- Seal 1.1 x PN (in bar); Body: 1.5 x PN (in bar)

#### Corrosion protection

- Epoxy powder coating RAL 5005
- Applied internal and external with a minimum coating thickness of 250 µm
- Potable water approved epoxy coating fusion bonded according EN 14901-1 and GSK (RAL-GZ662) guidelines

#### Approvals

- Certificação de potabilidade ACS certificate 25 ACC NY 075

#### Features

- Triple function air valve, designed for the expulsion of the exhaust of large air volume allowing air ingress if pressure loss occurs
- For use in clean water suitable in pipelines up to DN 1200
- With isolating valve for maintenance
- Minimum pressure: 0.3 bar
- The device evacuates great air amounts during the filling of the main
- Allows the inlet of great air amounts (in order to avoid a vacuum effect) during the emptying of the main during normal working conditions
- It must be installed in a vertical position and according to the following parameters:
  - at the highest point;
  - when accentuating the slope in the flow direction;
  - downstream of control valves fitted on descending pipeline;
  - at regular intervals along ascending/descending pipeline, at least every 500 meters;
- On request possibility of float coating, sealing in NBR and stem in stainless steel AISI 316L.



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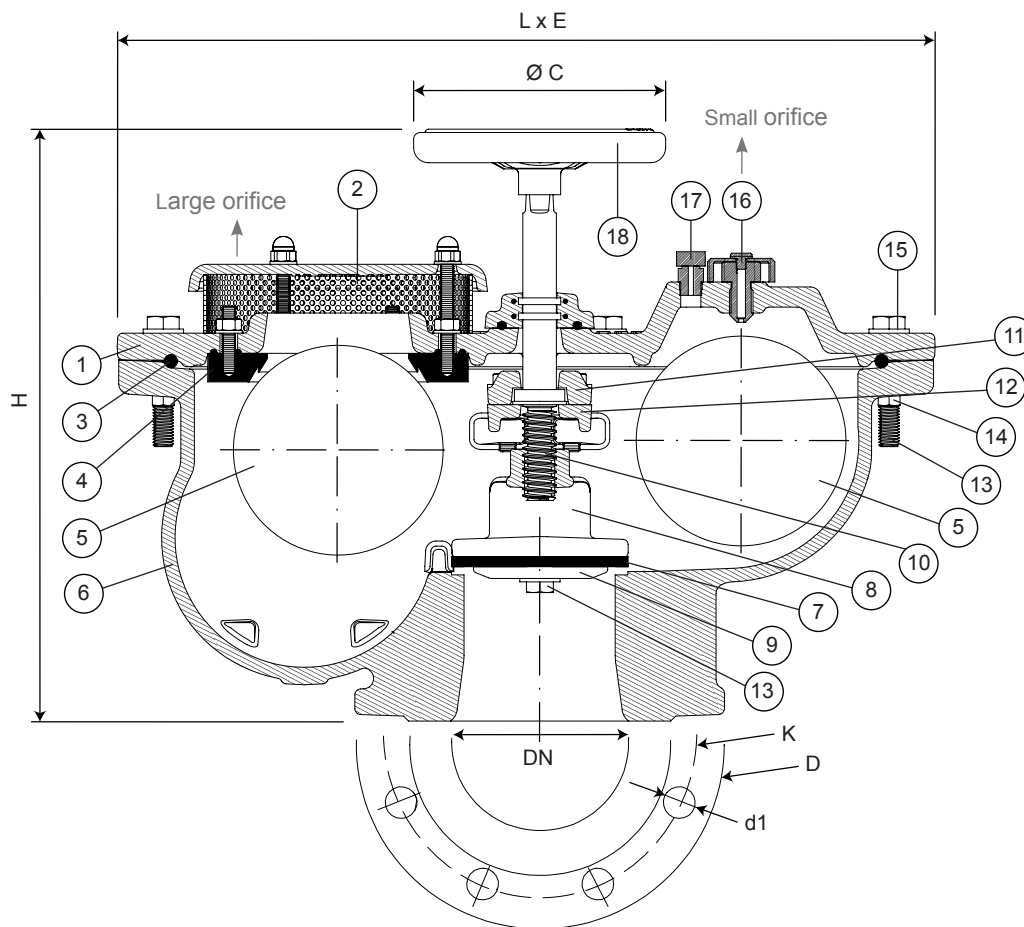
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**Component list**

| pos. | components                                  | material                  | standard   |
|------|---|---------------------------|------------|
| 1    | Bonnet                                      | Ductile iron EN-GJS-500-7 | EN 1563    |
| 2    | Air outlet                                  | Stainless steel AISI 304  | EN 10088-1 |
| 3    | O-ring                                      | Elastomer EPDM            | EN 681-1   |
| 4    | Air outlet sealing ring                     | Ductile iron EN-GJS-500-7 | EN 1563    |
|      | Air outlet sealing ring covering            | Elastomer EPDM            | EN 681-1   |
| 5    | Flutuator                                   | Steel docol 1000DP        | -          |
|      | Flutuator covering                          | Elastomer EPDM            | EN 681-1   |
| 6    | Body  | Ductile iron EN-GJS-500-7 | EN 1563    |
| 7    | Obturator sealing                           | Elastomer EPDM            | EN 681-1   |
| 8    | Obturator                                   | Ductile iron EN-GJS-500-7 | EN 1563    |
| 9a   | Obturator sealing fixing washer (DN50-DN65) | Brass CuZn39Pb3           | EN 12164   |

| pos. | components                                   | material                  | standard           |
|------|--|---------------------------|--------------------|
| 9b   | Obturator sealing fixing washer (DN80-DN200) | Ductile iron EN-GJS-500-7 | EN 1563            |
| 10   | Stem   | Stainless steel AISI 420  | EN 10088-1         |
| 11   | Stem support                                 | Ductile iron EN-GJS-500-7 | EN 1563            |
| 12   | Stem guide                                   | Ductile iron EN-GJS-500-7 | EN 1563            |
| 13   | Bolts  | Stainless steel A2        | EN 10088-1         |
| 14   | Nuts   | Stainless steel A4        | EN 10088-1         |
| 15   | Washers                                      | Stainless steel A2        | EN 10088-1         |
| 16   | Nozzle                                       | Brass CuZn39Pb3           | EN 12164           |
| 17   | Control purger                               | Brass CuZn39Pb3           | EN 12164           |
| 18   | Handwheel                                    | Printed stell ST W24      | EN 10111 and 10130 |

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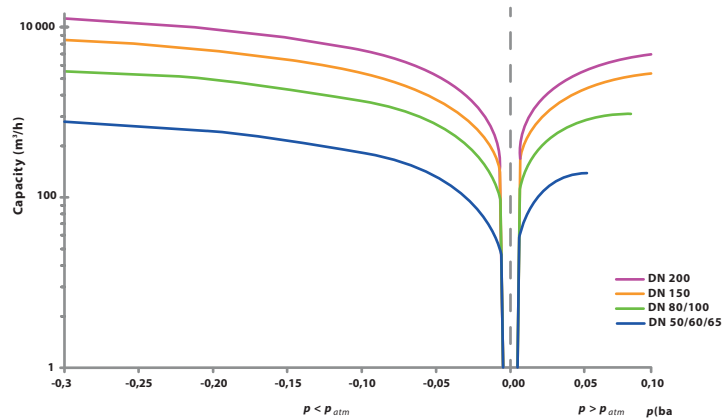
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## Reference and dimensions

| DN  | PN | code     | D   | L   | E   | H   | Ø C | K   | n° x Ø d1 | Kg      |
|-----|----|----------|-----|-----|-----|-----|-----|-----|-----------|---------|
|     |    |          |     | mm  | mm  | mm  | mm  | mm  | mm        | approx. |
| 50  | 25 | 19908065 | 165 | 390 | 200 | 290 | 150 | 125 | 4 x 19    | 30      |
| 60  | 25 | 19908070 | 175 | 390 | 200 | 290 | 150 | 135 | 8 x 19    | 31      |
| 65  | 25 | 19908080 | 185 | 390 | 200 | 290 | 150 | 145 | 8 x 19    | 31      |
| 80  | 25 | 19908090 | 200 | 485 | 245 | 360 | 200 | 160 | 8 x 19    | 50      |
| 100 | 25 | 19908095 | 220 | 485 | 245 | 360 | 200 | 190 | 8 x 23    | 51      |
| 150 | 25 | 19908100 | 285 | 680 | 360 | 500 | 200 | 250 | 8 x 28    | 132     |
| 200 | 25 | 19908105 | 340 | 680 | 360 | 500 | 200 | 310 | 12 x 28   | 146     |



| DN  | Main pipe diameter (DN) | Orifice size         |                         |
|-----|-------------------------|----------------------|-------------------------|
|     |                         | Main air outlet      | Automatic vacuum outlet |
| 50  | 65 to 350               | 1600 mm <sup>2</sup> | 12 mm <sup>2</sup>      |
| 60  |                         |                      |                         |
| 65  |                         |                      |                         |
| 80  | 400 to 600              | 2300 mm <sup>2</sup> |                         |
| 100 |                         |                      |                         |
| 150 | 700 to 900              | 5600 mm <sup>2</sup> |                         |
| 200 | 1000 to 1200            |                      |                         |



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