

Automatic air valve, 3 functions, ductile iron, DN 50-200, PN 16, flange.



General

- Three functions automatic air valve for sewage.
- The air valve will ensure the proper operation of sewage lines allowing the entrance and the discharge of large volumes of air, both during pipe draining and filling operations, and re-release of air pockets during working conditions.
- During pipe filling it is necessary to discharge as much air as water flows in.
- During pipeline draining or bursting phases it is necessary to bring in as much air as the quantity of out-flowing water to avoid vacuum conditions.
- During operation, an air pocket is accumulated in the upper part of the valve, little by little it is compressed and its pressure arrives to water pressure, its volume increases pushing water downwards. Following Archimede's principle the float, no longer sustained by water thrust, will fall down to free the nozzle hole helping the release of the air pocket, while the upper disk will close the main orifice due to internal pressure.

Options

- AS-design.

Materials

| DN | 50/65 | 80/100R* | 80/100T* | 150 | 200 |
|---|-------|----------|----------|-----|-----|
| Body and cover in ductile iron EN-JS1030 | • | • | • | • | • |
| Obturator in polypropylene | • | • | • | • | • |
| Nozzle and gasket holder in stainless steel EN 1.4401 | • | • | • | • | • |
| Float and rod in stainless steel EN 1.4401 | • | • | • | • | • |
| Nuts and bolts in stainless steel A2 | • | • | • | • | • |
| Sealing seat in stainless steel EN 1.4401 | • | • | • | • | • |
| Gaskets in NBR | • | • | • | • | • |
| Draining valve in galvanized brass or | • | • | • | • | • |
| Drainage valve in stainless steel | • | • | • | • | • |
| Epoxy coated (epoxy powder) | • | • | • | • | • |

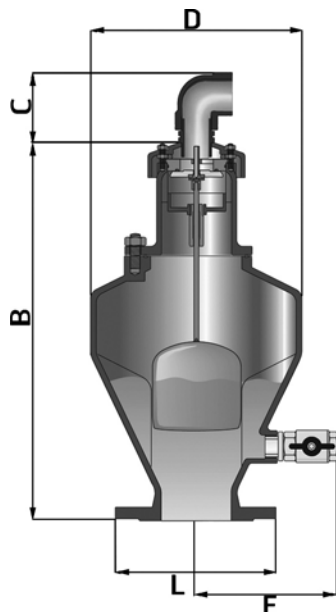
* R = reduced bore and T = full bore
 (• = standard)

Technical Data

| DN | 50/65 | 80/100R | 80/100T | 150 | 200 |
|-----------------------------|-------|---------|---------|-----|-----|
| Pressure rating PN 16 | • | • | • | • | • |
| Temperature max 70°C | • | • | • | • | • |
| Nozzle Ø | 2 | 2,4 | 2,4 | 3 | 3 |
| Min. pressure in pipe (bar) | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 |

(• = standard)

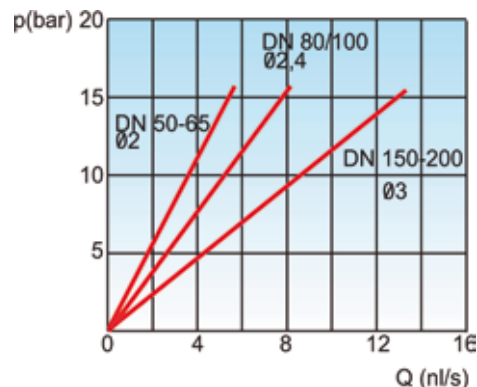
Dimensional Drawing



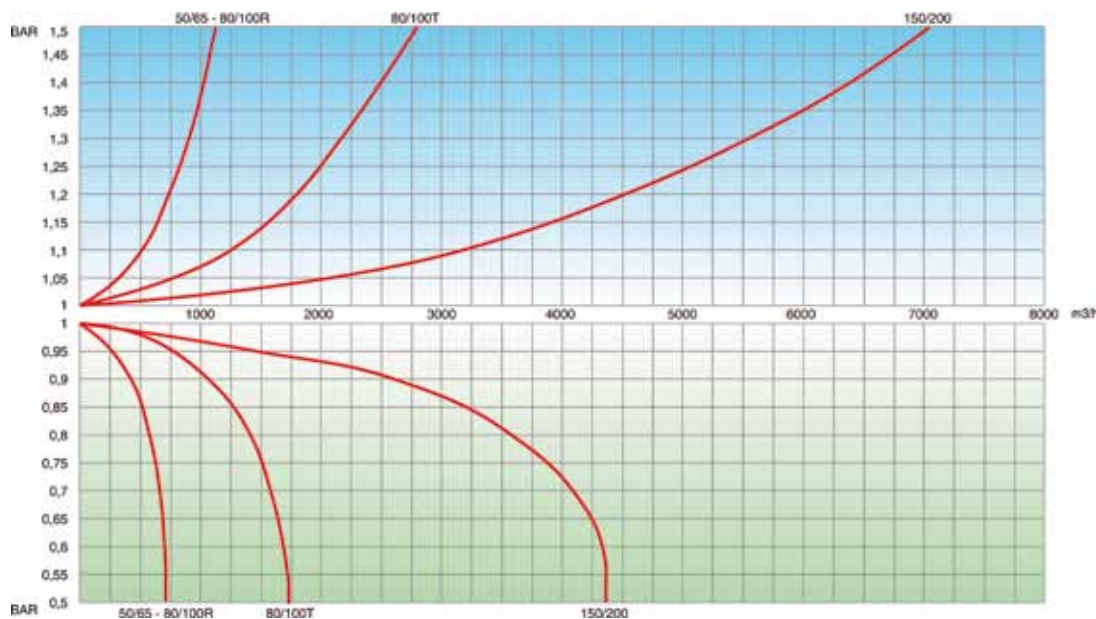
Dimensional Data (mm) and Weight (kg)

| DN | 50/65 | 80/100R | 80/100T | 150 | 200 |
|--------|-------|---------|---------|-----|------|
| L | 185 | 220 | 220 | 285 | 340 |
| B | 550 | 546 | 600 | 850 | 850 |
| C | 90 | 110 | - | - | - |
| D | 300 | 300 | 350 | 488 | 488 |
| E | 202 | 208 | 190 | 243 | 2430 |
| Weight | 29 | 31 | 40 | 78 | 82 |

Air Release During Working Conditions Relative to the Nozzle DN



Air Discharge During Pipe Filling



Air Intake During Pipe Draining and Burst

Markings

The valve is marked with DN, PN, materials and producer.

Mounting

Should be mounted standing

A shut-off valve should be installed before the air valve.

We recommend using steel-reinforced rubber seals to DIN EN 1514-1 Shape IBC. If you use raised face flanges, these seals are mandatory.

Maintenance

Maintenance can be easily performed from the top without removing the air valve from the pipe.

Order Number

| DN | Art. No |
|---------|----------|
| 50/65 | 6128050 |
| 80/100R | 6128080R |
| 80/100T | 6128080T |
| 150 | 6128150 |
| 200 | 6128200 |