# Single Orifice Air Release Valve
# AF-101T / AF101F

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|---|---|---|---|
| **Product Name:** | Air Vent Valve – single orifice | **Application** | Water |
| **Size** | Flanged DN40...DN200 / Threaded ½"…2" | **Pressure** | PN10 / PN16 |
| **Standard** | EN 1074-4 : 2000 | **Temperature** | < 120° C |
| **Body** | Ductile Cast Iron/ Stainless Steel | **Floating Ball** | Stainless Steel/ PTFE/ Plastic |

Size: DN20...DN200

Pressure Grade: PN10 / PN16

Type: NBR Floating Ball, Stainless steel / Brass Spindle


Standard : EN1074-4 : 2000

Rated Pressure : PN10, PN16

Material : Ductile Cast Iron EN-GJS_500/7

## Specifications:

| Part Material | | |
|---|---|---|
| No | PART NAME | Material |
| 1 | Body & Bonnet | Ductile Iron |
| 2 | Baffle | Ductile Iron |
| 3 | Float Ball | Stainless Steel 1.43.06 |
| 4 | Seal Ring | EPDM |
| 5 | Air Release Valve | Assembly |

| Technical Specification |
|---|
| Nominal Pressure: 1.0 / 1.6MPa |
| DN20....200 |
| Medium: Water |
| Work temperature: ≤120℃ |
| Design Standard : EN1074-4:2000 |
| Flange Standard : EN 1092-2 |
| Flanged end: according as ISO7005.2/EN1092-2, PN10 / PN16 |

| |
|---|
| rated pressure: 1.0Mpa / 1.6Mpa |
| seal test: 1.1Mpa / 1.76Mpa |
| strength test: 1.5MPa / 2.4Mpa |

| |
|---|
| body/bonnet: ductile iron |
| floating ball: 1.43.06 / PTFE |
| vent: steel, brass |
| seal ring: EPDM |
| bolt/nut: A3 |

Designed and manufactured in conformity following EN1074-4:2004, ISO 9001:2015, EN10 204

## Description:

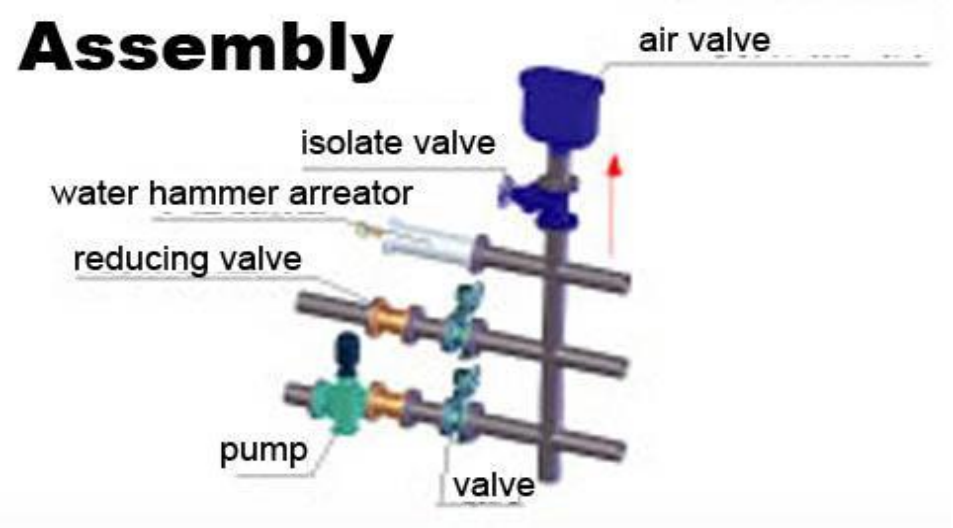
The air release valves will be installed at sections of the pipeline where air pockets would be formed.

The valves shall be of robust construction of double orifices with an integral isolating valve and flanged base for connection to a valve stem that connects the air valve to the main pipeline.

The bore leading to the flange base shall be in accordance to the size of the main pipeline and the expected accumulation of air.

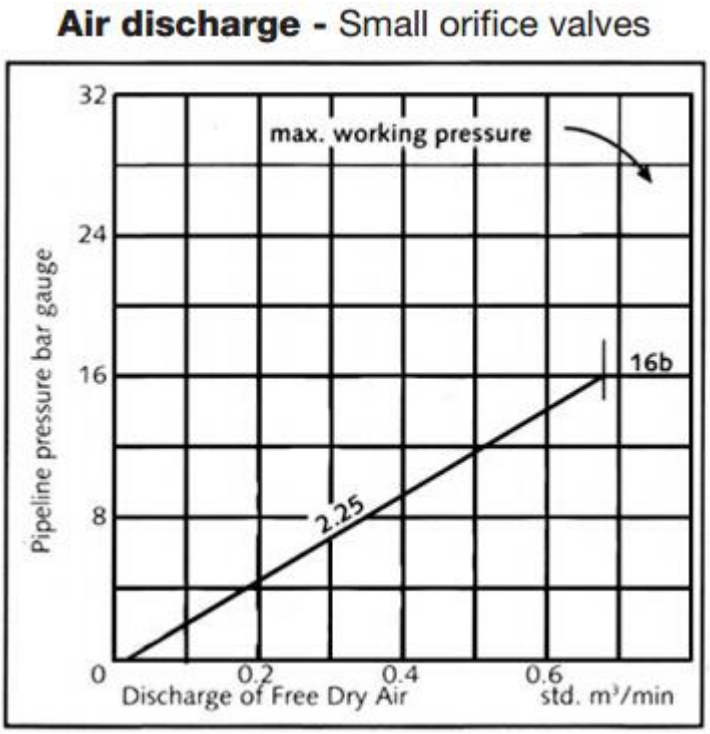
**Competitive Advantage:**

- Coating Powder Epoxy min 250 micrometers
- Three Way Functioning:
- Release of large volumes of air during pipeline fill.
- Allows in flows of large volumes of air when pipe is emptied.
- Release of air under pressure
- Low Maintenance
- Working pressure min.0.1 bar / Max.16 bar
- Hydraulic test performed under 1.5 * PN pressure

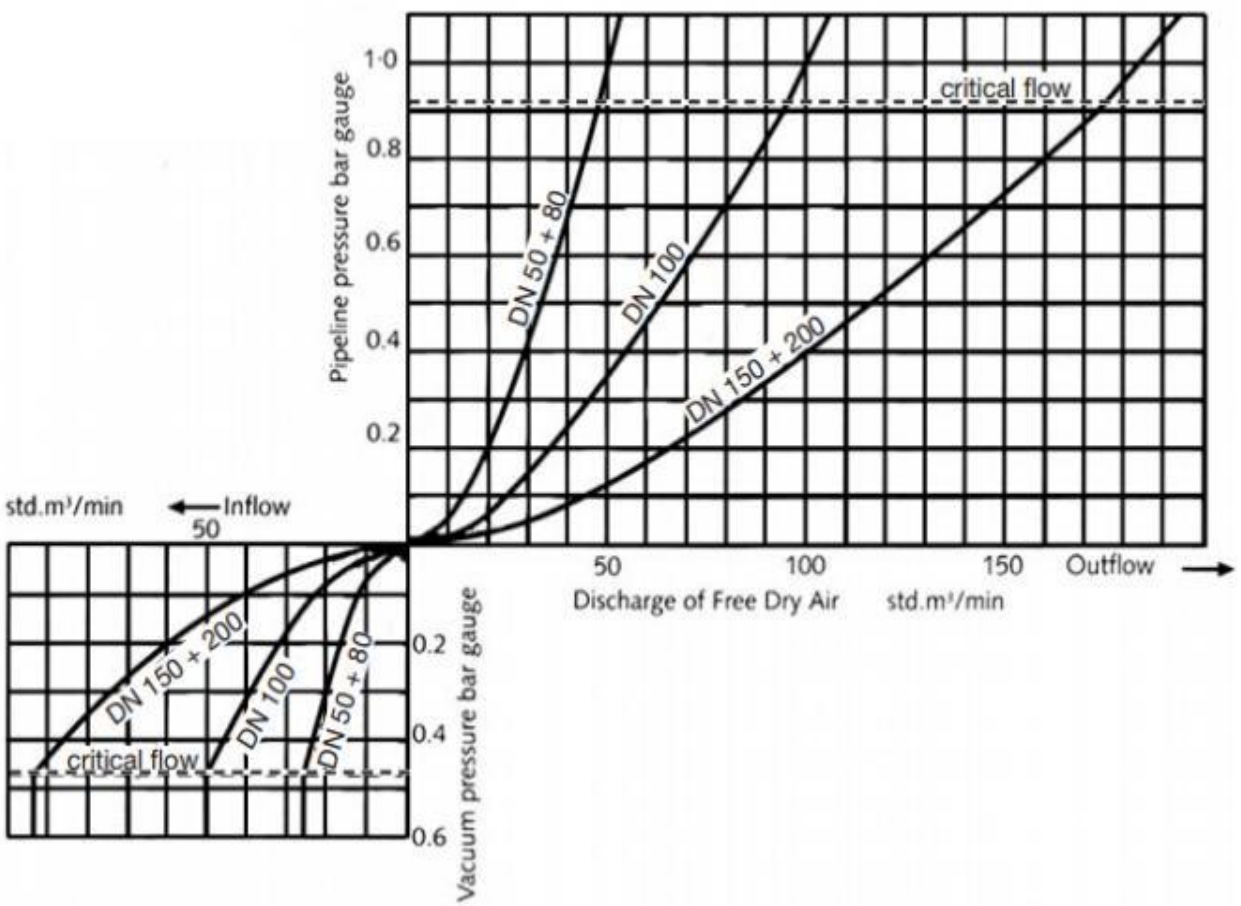


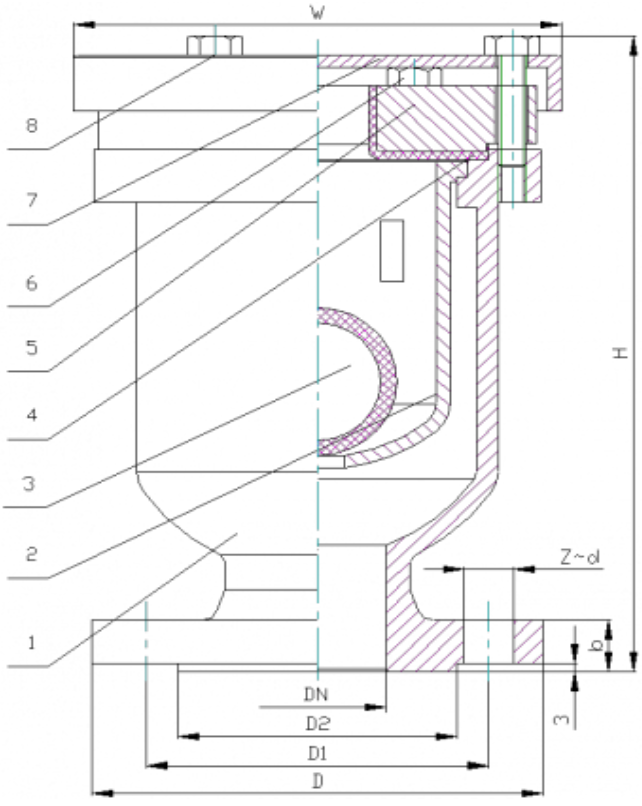

**REMARKS & APPLICATIONS**

- For water and neutral liquids.
- Nominal Pressure: PN 10/16
- Working Temperature: -10˚C to +120˚C



## **Air discharge -** Large orifice valves




PN16

| DN | D | D1 | D2 | b | H | Z~d | W |
|---|---|---|---|---|---|---|---|
| ø40 | ø150 | ø110 | ø84 | 18 | 224 | 4~ø19 | ø166 |
| ø50 | ø165 | ø125 | ø99 | 20 | 236 | 4~ø19 | ø178 |
| ø65 | ø185 | ø145 | ø118 | 20 | 244 | 4~ø19 | ø199 |
| ø80 | ø200 | ø160 | ø132 | 22 | 248 | 8~ø19 | ø202 |
| ø100 | ø220 | ø180 | ø156 | 24 | 284 | 8~ø19 | ø233 |
| ø150 | ø285 | ø240 | ø211 | 26 | 324 | 8~ø23 | ø282 |

| NO. | PART NAME | MATERIAL | STANDARD |
|---|---|---|---|
| 1 | BODY | CAST IRON | BS1452.220 |
| 2 | BUCKET | CAST IRON | BS1452.220 |
| 3 | BALL FLOAT | ABS | |
| 4 | GASKET | NBR | |
| 5 | INSIDE COVER | CAST IRON | BS1452.220 |
| 6 | BOLT | CARBON STEEL | BS1769 |
| 7 | OUTSIDE COVER | CAST IRON | BS1452.220 |
| 8 | BOLT | CARBON STEEL | BS1769 |