

Single Orifice Air Release Valve AF-101T / AF101F

Product Name:	Air Vent Valve – single orifice	Application	Water
Size	Flanged DN40...DN250 / 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...DN250

Pressure Grade: PN10 / PN16

Type: EPDM coated 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....250
Medium: Water
Work temperature: $\leq 120^{\circ}\text{C}$
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.

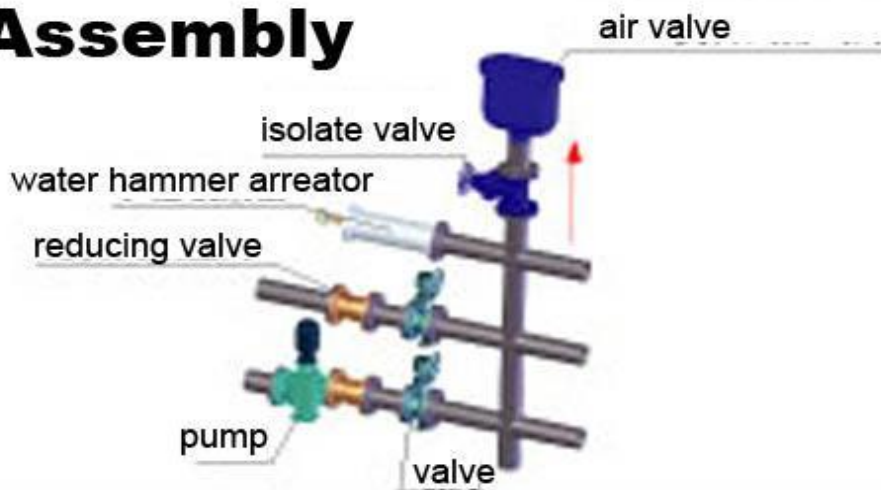
The valves shall be of robust construction of double orifices with an integral isolating valve and flanged base for connection to a valve stem that connects the air valve to the main pipeline.

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

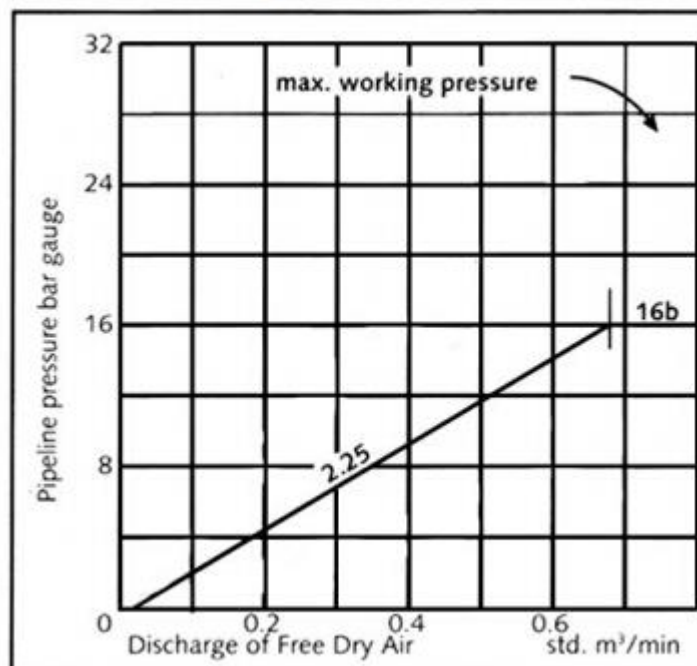
Assembly



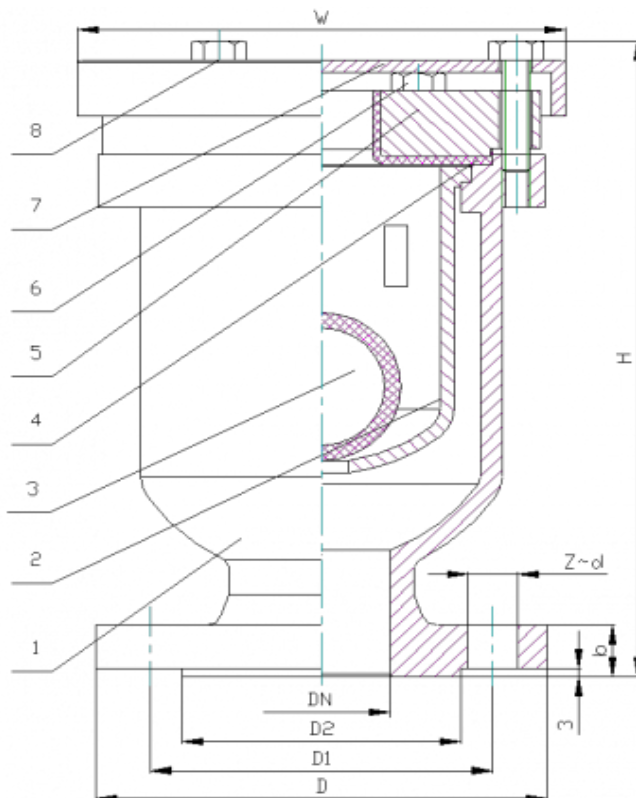
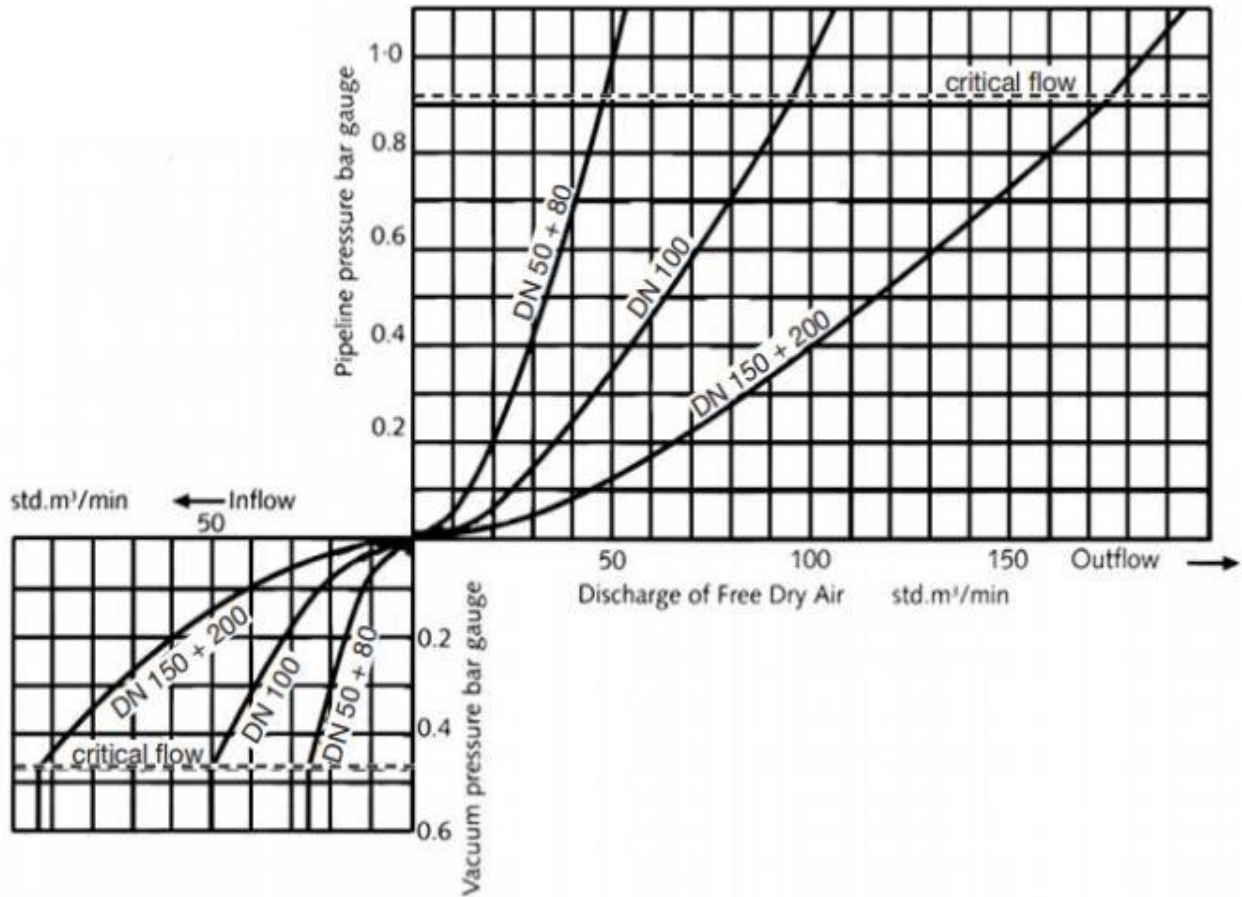
REMARKS & APPLICATIONS

- For water and neutral liquids.
- Nominal Pressure: PN 10/16
- Working Temperature: -10°C to $+120^{\circ}\text{C}$

Air discharge - Small orifice valves



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