

Single Body Automatic Air Valve AF-101TR & AF101FL

Product Name:	Kinetic Air Release Valve – single body	Application	Water / Low viscosity fluids
Size	Flanged DN50...DN150 / Threaded 1"and 2"	Pressure	PN10 / PN16 / PN25
Standard	EN 1074-4 : 2000	Temperature	< 120° C
Body	Ductile Cast Iron	Floating Ball	Stainless Steel

Sizes: DN25(1"),50(2"),50,65,80,100,125,150

Pressure Grade: PN10 / PN16 / PN25 Stainless

steel Ball / Brass Spindle



Standard : EN1074-4 : 2000

Rated Pressure : PN10, PN16, PN25

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 / 1.6 / 2.5MPa
DN25,50,65,80,100,125,150
Medium: Water & Other low viscosity fluids
Work temperature: $\leq 120^{\circ}\text{C}$
Design Standard : EN1074-4 : 2000
Flange Standard : EN 1092-2
Flanged end: according as EN1092-2, PN10 / PN16 / PN25

Rated pressure: 1.0Mpa / 1.6Mpa / PN25
Seal test: 1.1Mpa / 1.76Mpa
Strength test: 1.5MPa / 2.4 / 3.75Mpa

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

Designed and manufactured in conformity following EN1074-4:2000, EN10204

Description:

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

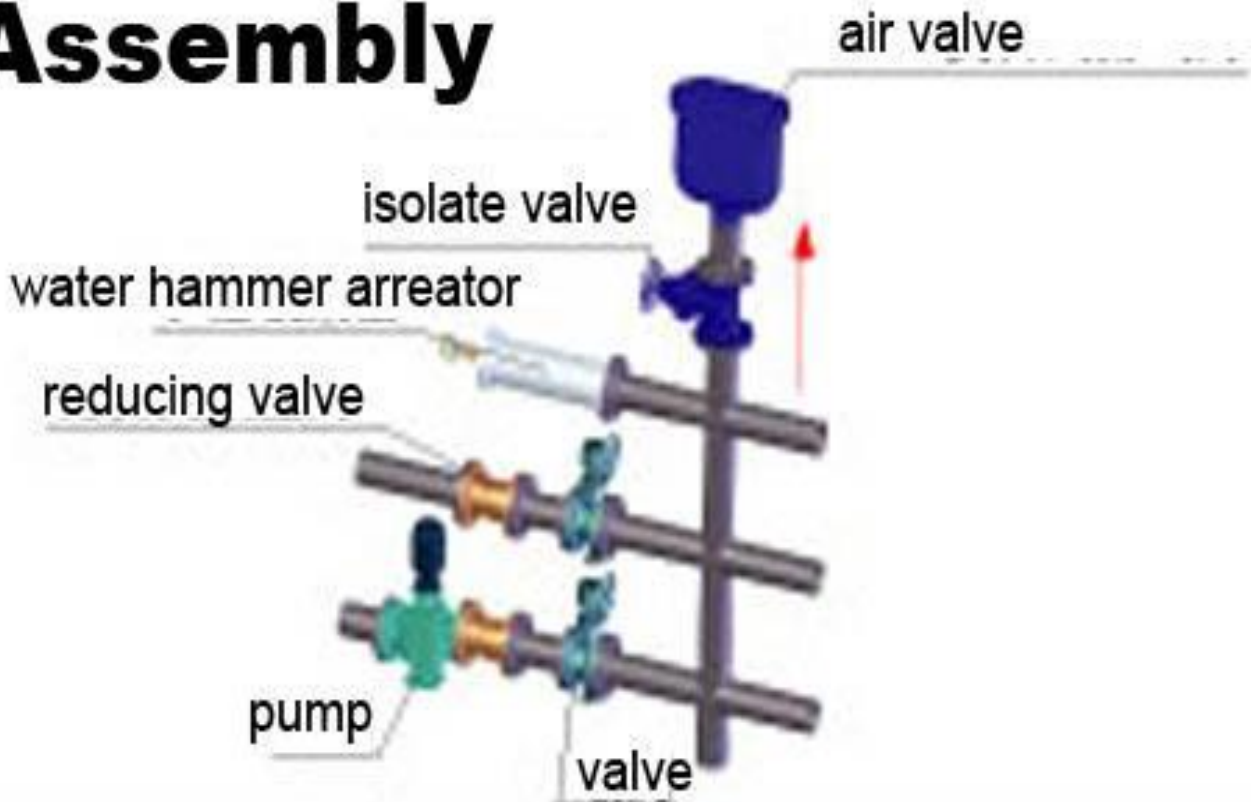
The valves might be of robust construction of double orifices with an integral isolating valve and flanged base for connection to a valve stem that connects the air valve to the main pipeline.

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 Advantages:

- Fusion bonded epoxy coating - 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 bubbles under pressure in laminar flow
- Low Maintenance costs
- Working pressure min 0.2 bar / max 25 bar
- Hydraulic test performed under $1.5 \times \text{PN}$ pressure

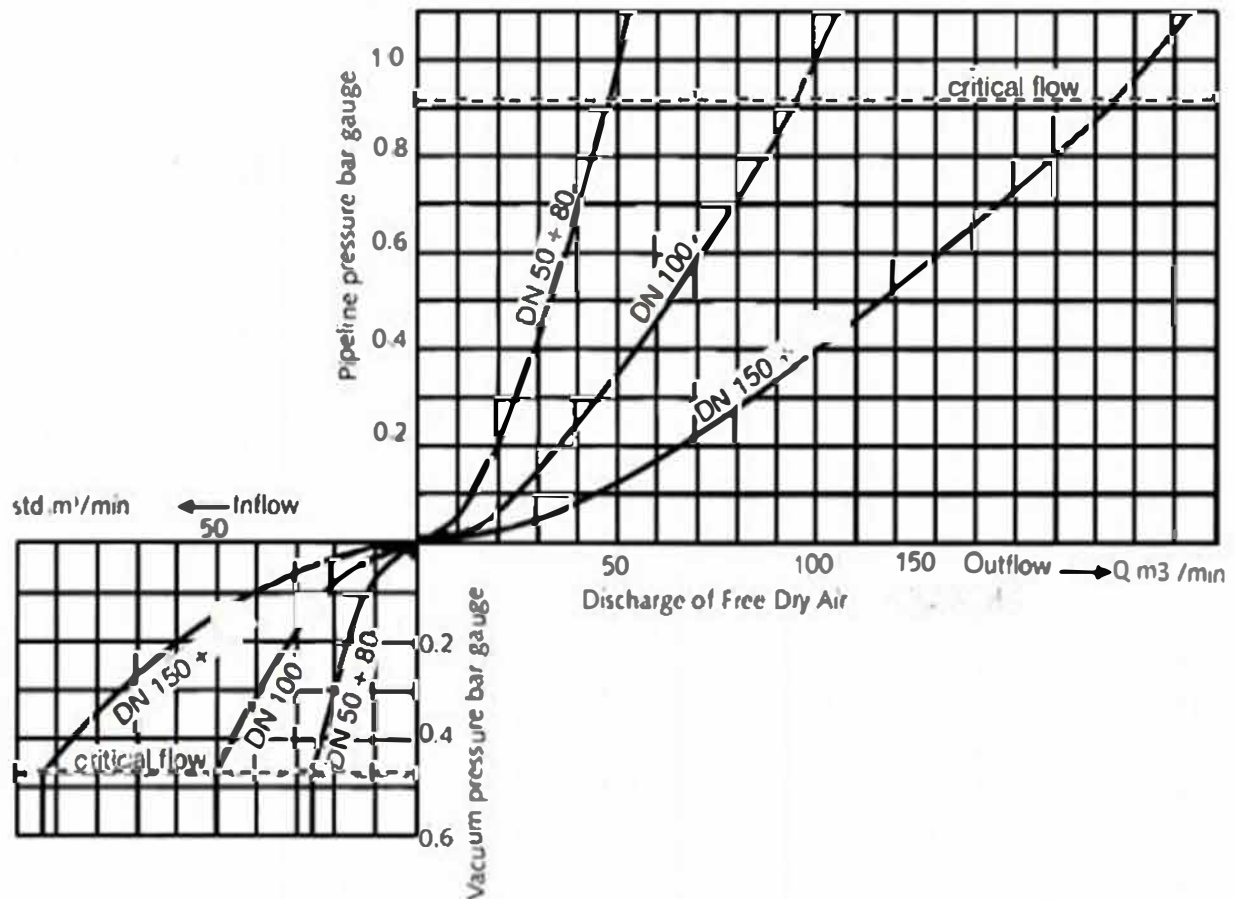
Assembly



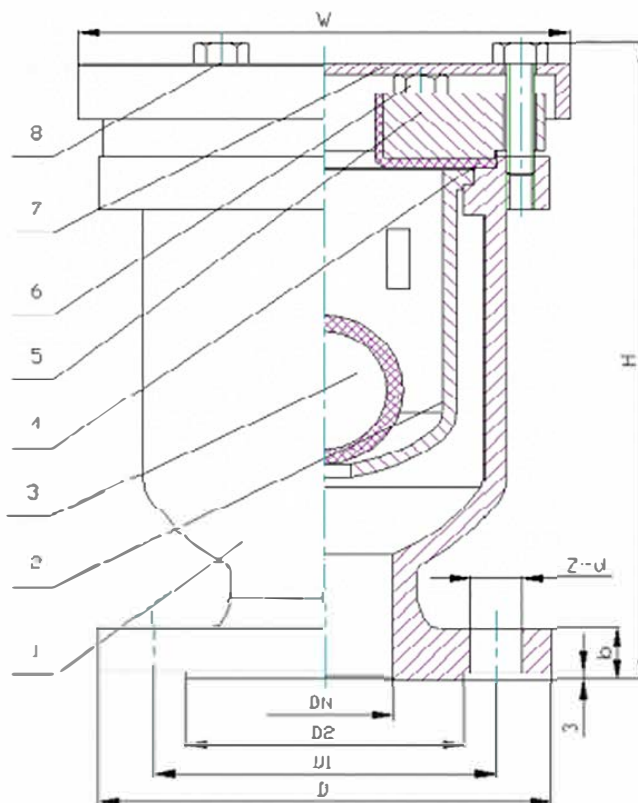
APPLICATIONS

- For water and neutral low viscosity fluids.
- Rated Pressure: PN 10/16/25
- Working Temperature: from -10°C to $+120^{\circ}\text{C}$

Air discharge diagram



DIMENSION CHART



DN	D	D1	D2	b	H	Z~d	W
Ø25	Ø150	Ø110	Ø84	18	120	1" BSP	Ø146
Ø50	Ø165	Ø125	Ø99	20	150	4~Ø19	Ø178
Ø65	Ø185	Ø145	Ø118	20	180	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	BUL	CARBON STEEL	BS1769
7	OUTSIDE COVER	CAST IRON	BS1452.220
8	BOLT	CARBON STEEL	BS1769