A-200 Air Release Valve (ARV) SBM-PTV

A-200 ARV has a small venting orifice and are used wherever air is entrained in water underpressure. Their function is to release small pockets of air which gather at the high points of a system after it is filled under pressure. A-200 Air Vent is commonly installed in the peak of the pipeline, and used for exhausting the compressed air in pipeline system, generally there will be about 2% of dissolved air in water and it will release as bubbles and thru the air release valve nozzle. It can prevent the existence of bubble gap for flow.

As the system fills and is pressurized, the automatic air release valve functions according to the following stages:

1. Entrapped air, which accumulates at peaks and along the system, rises to the top of the air valve, which in turn displaces the liquid in the air valve body.
2. The floating ball drops, unsealing the rolling seal. The automatic air release orifice opens and the accumulated air is released.
3. Liquid enters the valve and the float rises, pushing the rolling seal back to its sealing position.

Installation:

ARV Clean Water Air Release Valves should always be installed in a vertical position at high points of a pipeline. An isolation valve between this unit and the transmission (pipeline) system is recommended. *Before installation, remove foreign material* such as weld spatter, oil, grease, and dirt from the pipeline.

*Prepare pipe ends and install valve*s in accordance with the pipe manufacture's instructions forthe joint used. Do not deflect the pipe-valve joint. Minimize bending stresses in the valve end connection with pipe loading. Tighten the flange bolts or
studs in a crisscross pattern and minimum of four stages.

Maintenance:

Air Release Valves are automatic in operation and require very little or no maintenance. It is recommended that they be checked visually semi-annually for leakage. A malfunction of the valve will be evident by leakage of the media through the small orifice. Should a malfunction occur, the following steps should be taken to repair the valve.

Features:

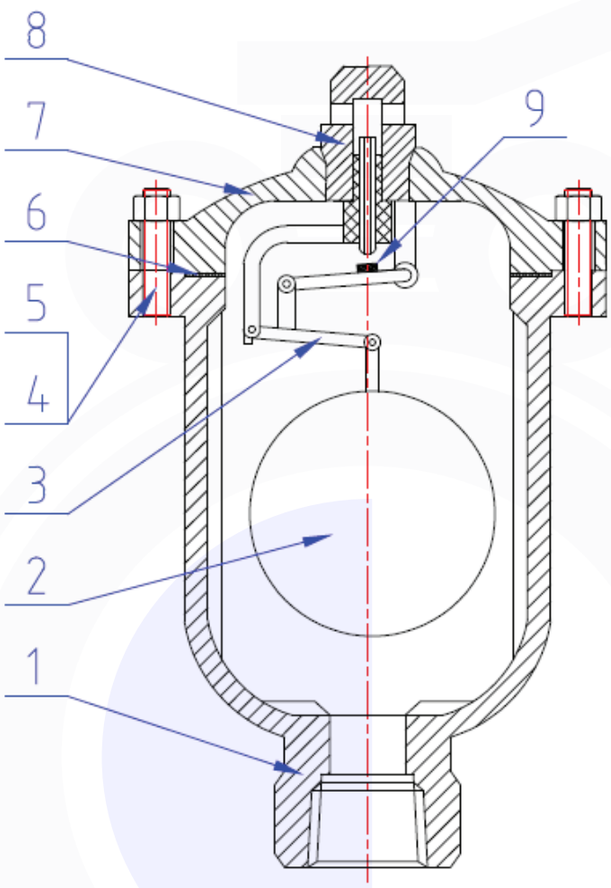
A) **Micro scale** air release.
B) **Reduces** pressure drop.
C) **Trim(Float, Stem, Hinge) is non-corrosive** stainless steel A276 SS316
D) **Unique** seal mechanism.
E) **Convenient** maintenance.
F) **Simple and reliable** structure.
G) **Self-cleaning.**
H) **Epoxy coating.**

Performance Standards

1.Design & Manufacture standard as to: ASME B31.3
ASME B16.34
2.Height dimension (H) standard as to:
MFR-STD
3.Threaded Standard as to: NPT : ASME
B1.20.1
4.Testing And Inspection as to: API 598
5.Pressure-temperature conforms as to: ASME
B16.34
6. Anti Corrosion as per NACE MR-0175(2002) requirement

Technical Data

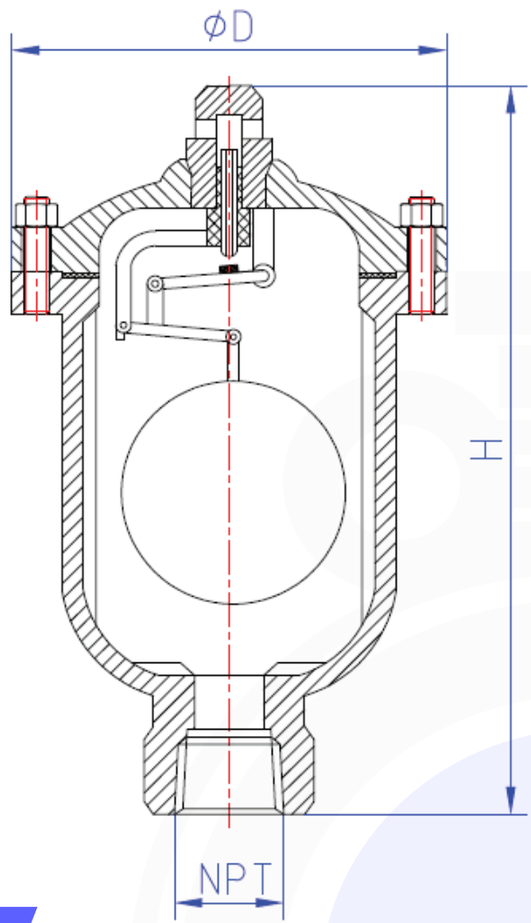
1. Size range : NPS 1/2"~2"
2. Pressure ratings: 300PSI
3. Working temperature: -29°C ~ +120°C
4. Suitable Medium: Oil pipelines,waterlines, clean water, irrigation,and, Non-corrosiveness chemical pipelines.
5. Body Material: Ductile Iron GGG40
6. Trim Material: A276 SS316
7. Seat: EPDM



Part List:

A-200 ARV

No.	Part Name	Material	Standard
1.	Body	Ductile Iron GGG40	DIN 1693-1 : 1973-10
2.	Floating Ball	SS316	ASTM A276
3.	Hinge	SS316	ASTM A276
4.	Bolt	B7(Galvanized)	ASTM A193
5.	Nut	2H(Galvanized)	ASTM A194
6.	Gasket	PTFE	MFR-STD
7.	Cover	Ductile Iron GGG40	DIN 1693-1 : 1973-10
8.	Vent Nipple	F316	ASTM A182
9.	Seat	EPDM	MFR-STD

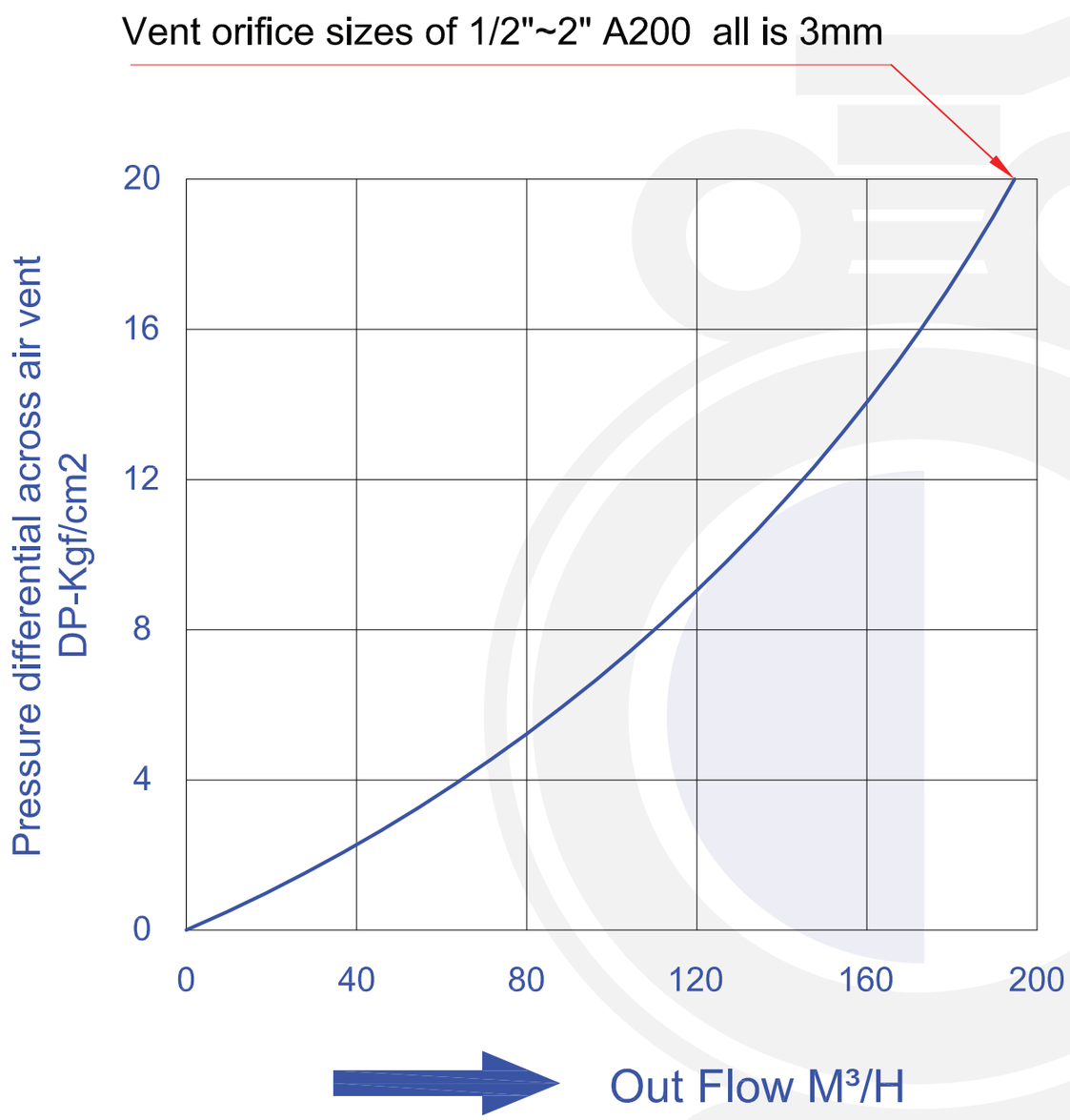


Main Dimensions:

A-200 ARV

NPS	NPT	H	Φ	Weight(Kg)
1/2"	1/2"	213	Φ135	5
3/4"	3/4"	213	Φ135	5
1"	1"	213	Φ135	5
1 1/4"	1 1/4"	213	Φ135	5
1 1/2"	1 1/2"	220	Φ148	6
2"	2"	220	Φ148	8

A-200 Air Vent discharge capacity by size



Air Release During Working Conditions

ORDERING CODE:

Example: A200-211-150

Model: A200 ARV Ductil Iron GGG40 + Blue Epoxy

SS316 Interior and Floating

EPDM Seat

Hilo NPT

Medida 1 1/2”

Available Interior and Floating ball Material Code:

SS304 CF8 Stainless Steel: 1

SS316 CF8M Stainless Steel: 2

SS316L CF3M Stainless Steel: 3

Available Seat Material Code:

EPDM: 1

NBR Buna: 2

Available Connection

Thread NPT: 1

Tread BSP: 2

Available Size Code:

1/2”: 50

3/4”: 75

1”: 100

1 1⁄2”: 150

2”: 200