ÖZKAN

No. 9842

Air Release Valves

DN 25 — 300, PN 10 | PN 40

*Please ask for different material, diameter and pressure class requests.

Air Release Valves

DN 25 — 300, PN 10 | PN 40

It is a very important mechanical equipment that plays a role in ensuring that the air in the pipeline is expelled during the filling of the pipeline, allowing fluid transfer with high efficiency, in the event that the fluid in the line is discharged, air is taken in to prevent the line from falling to negative pressure, and regular air discharge during operating conditions. The effect of air discharge and intake on the safe and efficient operation of pipelines and the system is quite high.

- Design Optimized Dynamic Air Release Valves
- Non-Slam Dynamic Air Release Valves
- Double Chamber Air Release Valves

No. 9842

Why Design Optimized Non-Slam Dynamic Air Release Valves?

DN 50 — 300, PN 10 | PN 16

Some of the advantages offered by design optimized non-slam air release valves can be listed as follows;

- Prepared for digital Air release valve.
- Less space for service.
- Reduced CO2 emission.
- Easy logistic and installation advantages.
- High air discharge and air intake capacity.
- Maintenance free design.

Recommended points for air release valve placement;

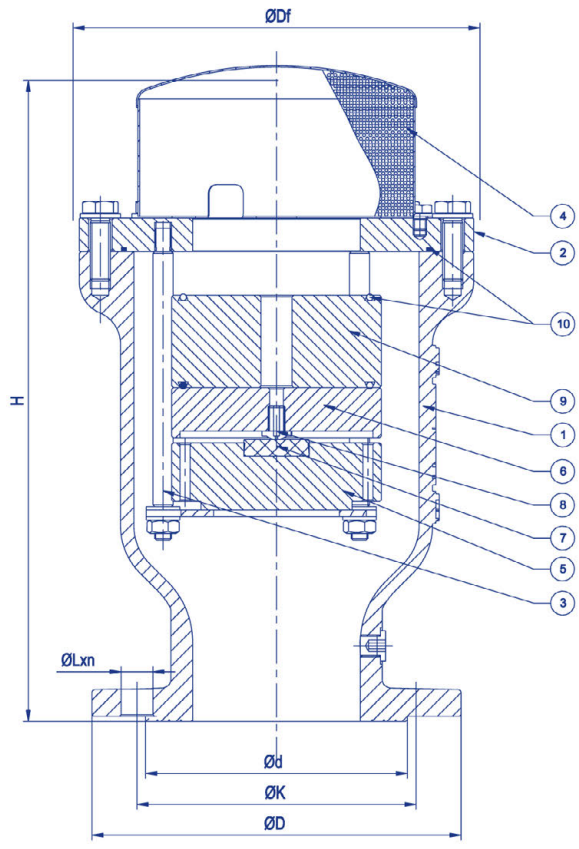
- Pump outlets.
- Peak points of the pipeline.
- Points where the slope of the pipeline changes.
- Every 500 meters in straight pipelines.

Recommended air release valve dimensions according to pipe diameters;

Pipe Diameter mm	80-250	300-400	450-600	700-900	1000-1200	1400-1600	1800-2000
Air Release Valve DN	50	80	100	150	200	250	300

Recommended diameters are for general information. You can contact us for detailed calculation and selection, given the operating conditions and line drawing.

Material Features



Part No	Part Name	Material
1	Body	Ductile Iron EN-GJS-400-15
2	Cover	Steel S235JR
3	Float Guide	Stainless Steel X5CrNi18-10
4	Top Cover	Stainless Steel X5CrNi18-10
5	Float	HDPE
6	Float	HDPE
7	Small Orifice Seal	EPDM
8	Small Orifice	Stainless Steel X5CrNi18-10
9	Float	HDPE
10	0-Ring	EPDM

*Please contact us for other material requests.

No. 9842

Why Non-Slam Dynamic Air Release Valves?

DN 25 — 300, PN 25 | PN 40

Some of the advantages offered by non-slam air release valves can be listed as follows;

- Automatically operated single chamber air release valve.
- Small volume, low weight compact design.
- Large orifice allows the discharge and removal of large air mass during filling and draining of the pipeline.
- Small orifice discharges small volumes of air when the pipeline is operating under pressure.
- Pulse-free closing with two-stage closing design.
- High discharge capacity.
- High corrosion resistance due to stainless steel internal components.

Recommended points for air release valve placement;

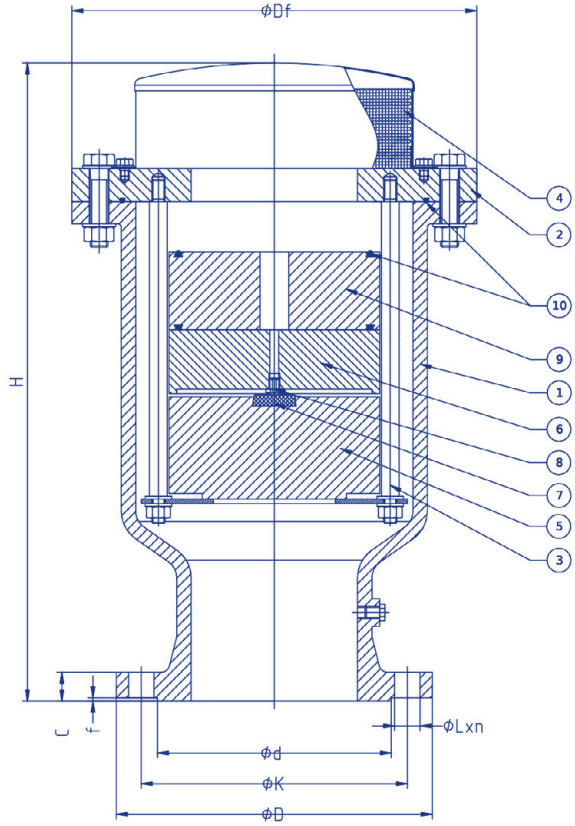
- Pump outlets.
- Peak points of the pipeline.
- Points where the slope of the pipeline changes.
- Every 500 meters in straight pipelines.

Recommended air release valve dimensions according to pipe diameters;

Pipe Diameter mm	80-250	300-400	450-600	700-900	1000-1200	1400-1600	1800-2000
Air Release Valve DN	50	80	150	150	200	250	300

Recommended diameters are for general information. You can contact us for detailed calculation and selection, given the operating conditions and line drawing.

Material Features



Part No	Part Name	Material
1	Body	Ductile Iron EN-GJS-400-15
2	Cover	Steel S235JR
3	Float Guide	Stainless Steel X5CrNi18-10
4	Top Cover	Stainless Steel X5CrNi18-10
5	Float	HDPE
6	Float	HDPE
7	Small Orifice Seal	EPDM
8	Small Orifice	Stainless Steel X5CrNi18-10
9	Float	HDPE
10	0-Ring	EPDM

*Please contact us for other material requests.

Design Optimized Non-Slam Dynamic Air Release Valves

PN-10

Technical Details

DN	PN	ØD	ØK	Ød	C	f	ØLxn	Df	H	Weight
50	10	165	125	99	19	3	19x4	185	318	15
65	10	185	145	99	19	3	19x4	200	360	19
80	10	200	160	132	19	3	19x8	215	370	21
100	10	220	180	156	19	3	19x8	235	385	24
150	10	285	240	211	19	3	23x8	345	542	57
200	10	340	295	266	20	3	23x8	410	630	84
250	10	405	350	319	22	3	23x12	520	715	134
300	10	460	410	370	24,5	4	28x12	650	925	203

*Please contact us for other diameters and pressure values.

PN-16

Technical Details

DN	PN	ØD	ØK	Ød	C	f	ØLxn	Df	H	Weight
50	16	165	125	99	19	3	19x4	185	318	15
65	16	185	145	99	19	3	19x4	200	360	19
80	16	200	160	132	19	3	19x8	215	370	21
100	16	220	180	156	19	3	19x8	235	385	24
150	16	285	240	211	19	3	23x8	345	542	57
200	16	340	295	266	20	3	23x12	410	630	84
250	16	405	355	319	22	3	28x12	520	715	134
300	16	460	410	370	24.5	4	28x12	610	810	203

*Please contact us for other diameters and pressure values.

Non-Slam Dynamic Air Release Valves

PN-25

Technical Details

DN	PN	ØD	ØK	Ød	C	f	ØLxn	Df	H	Weight
50	25	165	125	99	19	3	19x4	200	355	20
65	25	185	145	99	19	3	19x4	225	404	20
80	25	200	160	132	19	3	19x8	240	416	30
100	25	235	190	156	19	3	23x8	255	420	37
150	25	300	250	211	20	3	28x8	365	580	85
200	25	360	310	274	22	3	28x12	410	678	104
250	25	425	370	330	24.5	3	31x12	540	820	208
300	25	485	430	389	27.5	4	31x16	650	925	340

*Please contact us for other diameters and pressure values.

PN-40

Technical Details

DN	PN	ØD	ØK	Ød	C	f	ØLxn	Df	H	Weight
50	40	165	125	99	19	3	19x4	200	355	20
65	40	185	145	99	19	3	19x4	225	404	20
80	40	200	160	132	19	3	19x8	240	416	30
100	40	235	190	156	19	3	23x8	255	420	37
150	40	300	250	211	26	3	28x8	365	590	95
200	40	375	320	284	30	3	31x12	425	695	130
250	40	450	385	345	34.5	3	34x12	540	830	215
300	40	515	450	409	39.5	4	34x16	670	935	350

*Please contact us for other diameters and pressure values.

No. 9844

Why Double Chamber Air Release Valves?

DN 50 — 300, PN 10 | PN 40

Some of the advantages of double chamber air release valves can be listed as follows;

- Double chamber air release valves with cylindrical float.
- The large orifice allows the evacuation and removal of large air mass during filling and draining of the pipeline.
- The small orifice discharges small volumes of air when the pipeline is operating under pressure.
- Solid HDPE float design eliminates problems such as deformation and jamming seen in sphere designs.
- Built-in isolation valve for air release valve maintenance, without isolation valve on request.

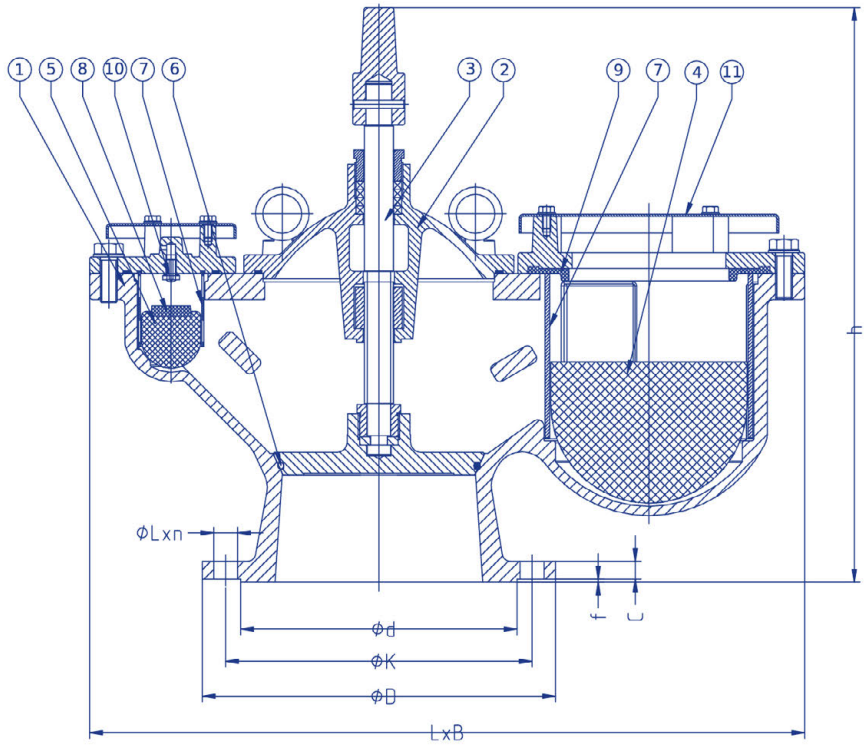
PN-16

Technical Details

DN	PN	LxB	H	Weight
50	16	310x165	355	13,5
65	16	330x185	365	16
80	16	385x200	380	21
100	16	448x220	400	32
125	16	498x250	420	48
150	16	620x285	530	67
200	16	690x340	555	88
250	16	860x405	700	182
300	16	1045x465	720	338

*Please contact us for other diameters and pressure values.

Material Features



Part No	Part Name	Material
1	Body	Ductile Iron EN-GJS-400-15
2	Covers	Ductile Iron EN-GJS-400-15
3	Shaft	Stainless Steel X20Cr13
4	Float	HDPE
5	Float	HDPE
6	Sealing Ring	EPDM
7	Float Cage	Polyethylene
8	Small Orifice Seal	EPDM
9	Float Seal	EPDM
10	Small Orifice	PRFE
11	Protective Cover	Steel S235JR

*Please contact us for other material requests.