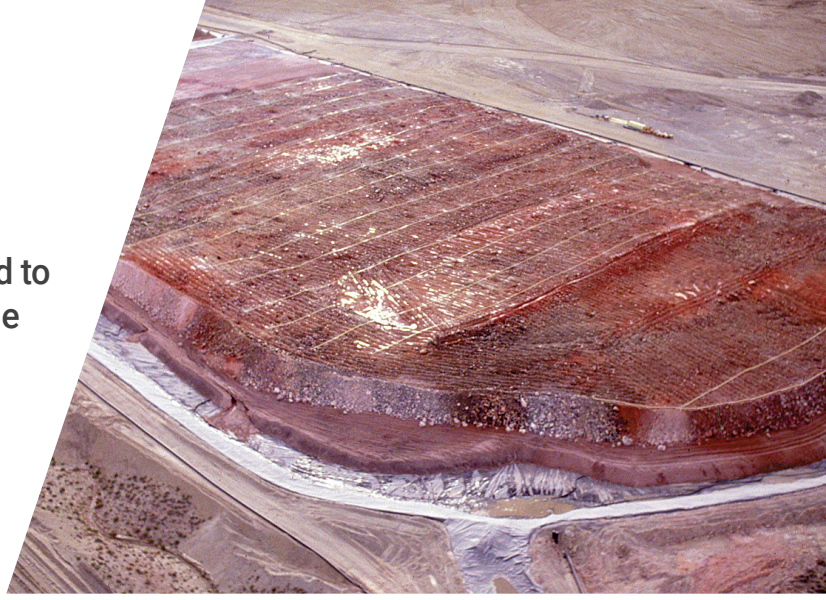
D20

Combination air valve installed on a mining conduction system. The air valve is designed to improve hydraulic operation by protecting the pipeline, increasing pipeline efficiency, and reducing energy requirements.
The unique body shape of the valve enables a continuous air gap that separates the water/solution from the sealing mechanism and helps to avoid deposits or blockage.



Reliability

100%
Superb quality

Superior design

Benefits & Features

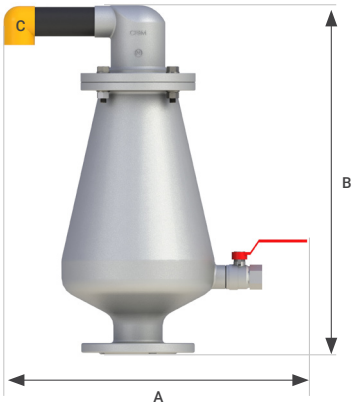
→ Reliability	Minimizes water hammer incidents and allows high-velocity air discharge. Prevents premature system wear for enhanced reliability.
→ Superb quality	Adheres to the highest industry standards, ensuring superior performance and preventing leakage. Guarantees reliability across applications.
→ Superior design	Conical body and funnel-shaped lower body maximum air gap/ minimum body length. A continuous air gap separates the liquid from the sealing mechanism residue matter falls back into the system pipeline.
→ Leak-free	Delivers stable operation with leak-free sealing, even under varying pressure differentials. Promotes clean and efficient functionality over time.

Specifications

- Size range: 2” - 8”.
- Sealing pressure range: 0.05-16 bar.
- Testing pressure: 1.5 times maximum working pressure.
- Maximum working temperature: 60° C.
- Valve coating: Fusion-bonded epoxy coating in compliance with standard DIN 30677-2 (applied on Cast Steel and Cast Ductile Iron valves).
- Valve connection: flanged ends to meet various requested standards, 2”and 3” valve connections: flanged or threaded BSP/NPT.
- Standard materials: Welded/Cast steel body, optional: Stainless Steel.

Technical dimensions

Model	Dimensions (mm)		Air release	Weight (kg)		Orifice area (mm^2)	
	A	B	C	Steel	SST	Auto	a/v
2" THR	550	644	11/2" BSP F	16.5	15.8	12	804
2" FL	550	605	11/2" BSP F	17.5	17.0	12	804
3" THR	550	649	11/2" BSP F	16.9	16.4	12	804
3" FL	550	605	11/2" BSP F	18.5	18.5	12	804
4" FL	550	605	11/2" BSP F	19.5	19.5	12	804
6" FL	550	610	11/2" BSP F	21.0	21.0	12	804
8" FL	550	610	11/2" BSP F	24.0	22.0	12	804



FL - Flanged, THR – Threaded
All product weights and dimensions are approximate, due to the differences in flange standards, materials and variable accessories.

Components raw materials

Part	Material
Body	Reinforced Nylon
Extension	Polypropylene
Shell	Stainless Steel 316 / Super Duplex
Discharge elbow	Polypropylene
Non-slam component (optional)	Reinforced Nylon / Polypropylene / Acetal / Stainless Steel
O-ring	NBR / EPDM / Viton
Cover	Reinforced Nylon / Stainless Steel 316
Rolling seal assembly	Nylon / EPDM / Viton / Stainless Steel
Float connector	Foamed Polypropylene
Clamping stem	Reinforced Nylon
Domed nut	Stainless Steel 316
Stopper	Polypropylene
Spring	Stainless Steel 316 / Hastelloy
Float and rod	Polypropylene / Stainless Steel 316
O-ring	NBR / EPDM / Viton
Body	Stainless Steel 316 / SUPER DUPLEX
Ball Valve	Stainless Steel 316 / Super Duplex

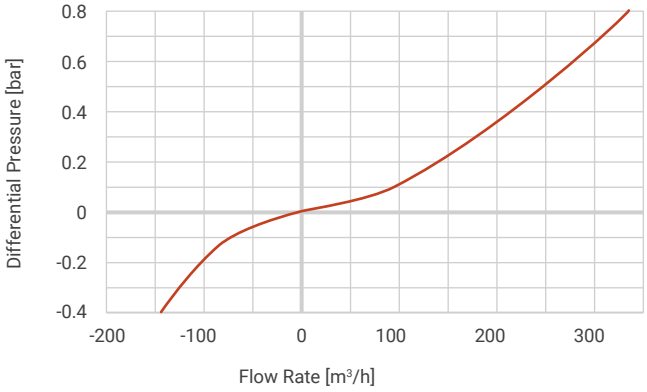
Catalog numbers examples

Description	Catalog number
D20 2" MULTI STAND STST316 PN10 PPV	70520-000002
D20 2" NPT STST316 PN10 STST FLOAT PPV	70561-016030
D20 2" NPT ST37 PN16 250PSI VITON SEAL STST FLOAT FOR NAT	70561-016015
D20 2" NPT STST316 PN10 STST SHELL AND COVER PVDF PART	74480-090100
D20 2" NPT STEEL 250PSI NET VITON SEAL STST FLOAT FOR NATUR	70561-017500
D20 3" MULTI STAND STST316 PN16 VITON STST D40 AND FLOAT	70561-016160
D20 3" MULTI STAND STST316 150PSI USA STST SHELL AND COVER P	70561-000004
D20 4" ASA150 STST316 PN10 PPV STST D40	70561-016220

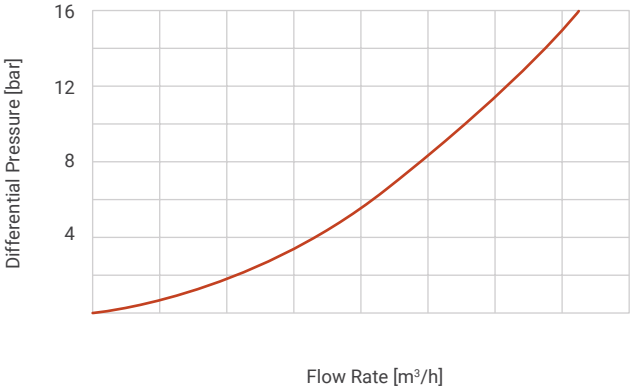
*Other configurations are available upon request

→ Flow charts

Air & Vacuum Flow Rate

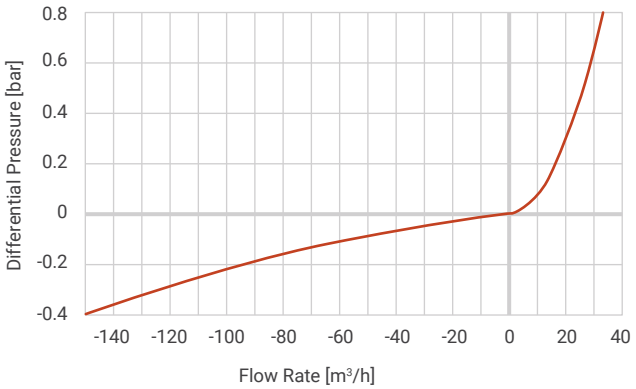


Automatic Air Release Flow Rate

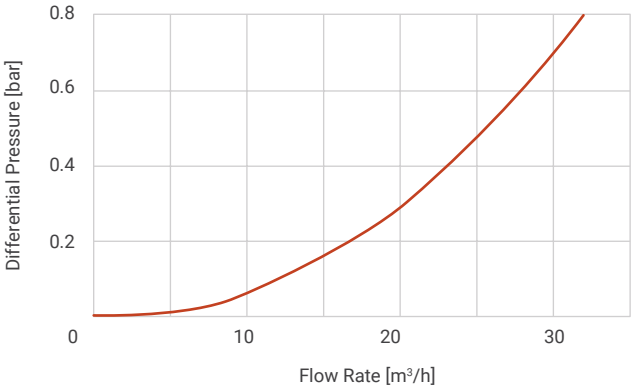


D-20 NS

Air & Vacuum Flow Rate



Air Discharge Flow Rate



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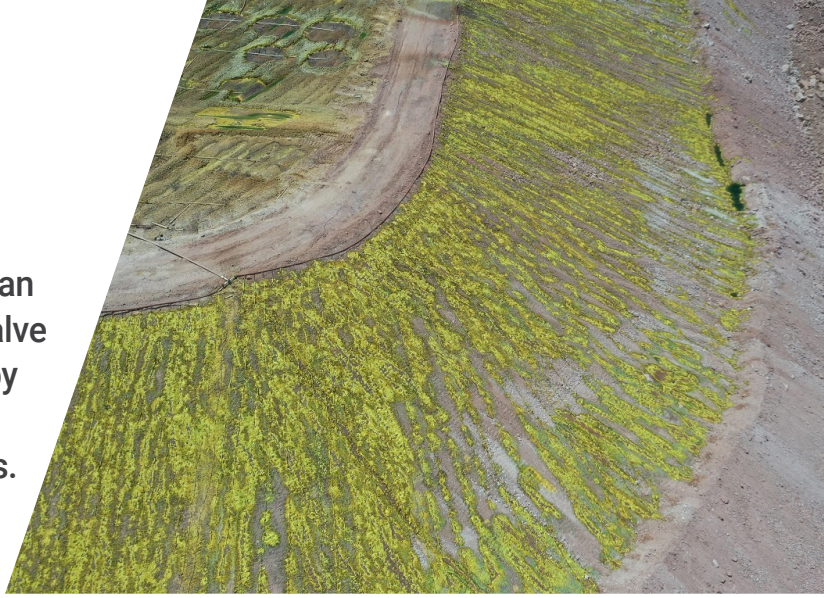
D25

This model is a reduced bore compact combination air valve. Installed on a non-clean water/solution conduction system, the air valve is designed to improve hydraulic operation by protecting the pipeline, increasing pipeline efficiency and reducing energy requirements. A continuous air gap in the valve body separates the water/solution from the sealing mechanism.



Reliability

100%

Superb quality

Superior design

Benefits & Features

→ Reliability	Minimizes water hammer incidents and allows high-velocity air discharge. Prevents premature system wear for enhanced reliability.
→ Superb quality	Adheres to the highest industry standards, ensuring superior performance and preventing leakage. Guarantees reliability across applications.
→ Superior design	Conical body and funnel-shaped lower body maximum air gap/ minimum body length. A continuous air gap separates the liquid from the sealing mechanism residue matter falls back into the system pipeline.
→ Leak-free	Delivers stable operation with leak-free sealing, even under varying pressure differentials. Promotes clean and efficient functionality over time.

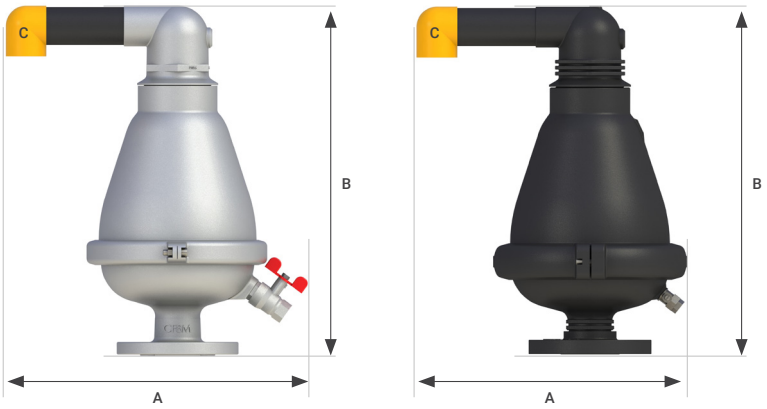
Specifications

- Size range: 2” - 4”.
- Sealing pressure range: 0.05-10 bar.
- Testing pressure: 1.5 times maximum working pressure.
- Maximum working temperature: 60° C.
- Valve coating: Fusion-bonded epoxy coating in compliance with standard DIN 30677-2 (applied on Cast Steel and Cast Ductile Iron valves).
- Valve connection: Threaded male BSPT/NPT; Flanged ends to meet various requested standards.
- Standard materials: Reinforced nylon body, optional: stainless steel.

Technical dimensions

Model	Dimensions (mm)		Air release	Weight (kg)		Orifice area (mm²)	
	A	B	C	Reinforced Nylon	SST	Auto	a/v
2" THR	370	455	11/2" BSP F	16.5	14.4	12	804
2" FL	370	460	11/2" BSP F	17.5	16.2	12	804
3" THR	370	455	11/2" BSP F	16.9	14.7	12	804
3" FL	370	460	11/2" BSP F	18.5	16.5	12	804
4" THR	370	455	11/2" BSP F	19.5	16.6	12	804
4" FL	370	460	11/2" BSP F	21.0	18.4	12	804

FL - Flanged, THR - Threaded
All product weights and dimensions are approximate, due to the differences in flange standards, materials and variable accessories.



Components raw materials

Part	Material
Body	Stainless Steel 316
Extension	Polypropylene
Discharge elbow	Polypropylene
Camlock (optional)	Polypropylene
Non-slam component (optional)	Polypropylene / Stainless Steel
Clamping stem	Reinforced Nylon / Polypropylene
Float	Foamed Polypropylene
Screws	Stainless Steel
Plug cover	Reinforced Nylon / Polypropylene
Rolling seal	EPDM / Viton
Plug	Reinforced Nylon / Polypropylene
O-ring	NBR / EPDM / Viton
Body	Stainless Steel 316
Domed nut	Stainless Steel 316 / Super Duplex
Stopper	Polypropylene
Spring	Stainless Steel 316 / Hastelloy
Float and rod	Polypropylene / Stainless Steel 316 or Titanium
O-ring	NBR / EPDM / Viton
Clamp assembly	Stainless Steel 316
Base (threaded or flange)	Stainless Steel 316
Tap	Stainless Steel 316

→ Components raw materials

Part	Material
Body	Reinforced Nylon
Extension	Polypropylene
Discharge elbow	Polypropylene
Camlock (optional)	Polypropylene
Non-slam component (optional)	Polypropylene / Stainless Steel
Clamping stem	Reinforced Nylon / Polypropylene
Float	Foamed Polypropylene
Screws	Stainless Steel (optional electroless nickel coat)
Plug cover	Reinforced Nylon / Polypropylene
Rolling seal	EPDM
Plug	Reinforced Nylon / Polypropylene
O-ring	NBR / EPDM / Viton
Body	Reinforced Nylon
Domed nut	Stainless Steel 316
Stopper	Polypropylene
Spring	Stainless Steel 316 / Hastelloy
Float and rod	Polypropylene / Stainless Steel 316 or Titanium
O-ring	NBR / EPDM / Viton
Clamp assembly	Reinforced Nylon / Stainless Steel 316
Base	Reinforced Nylon
Tap	Stainless Steel 316
Flange (optional)	Reinforced Nylon

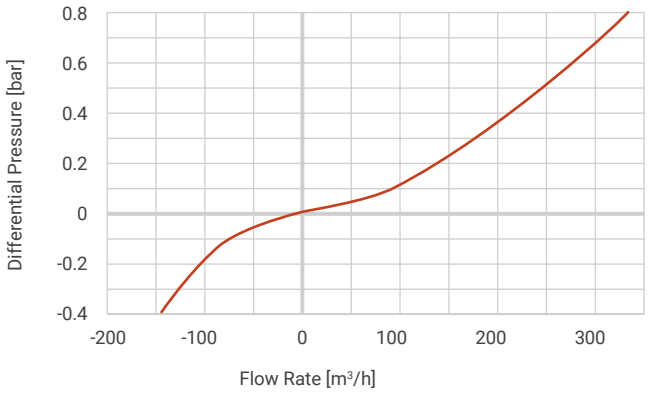
→ Catalog numbers examples

Description	Catalog number
D25 2" NPT NYLON3 150PSI NTW VITON	70561-016001
D25 2" NPT NYLON3 PN10 VITON, MINES	70561-016530
D25 4" MULTI STAND STST316 150PSI VITON,STST D40 DR "1.5	70561-017900

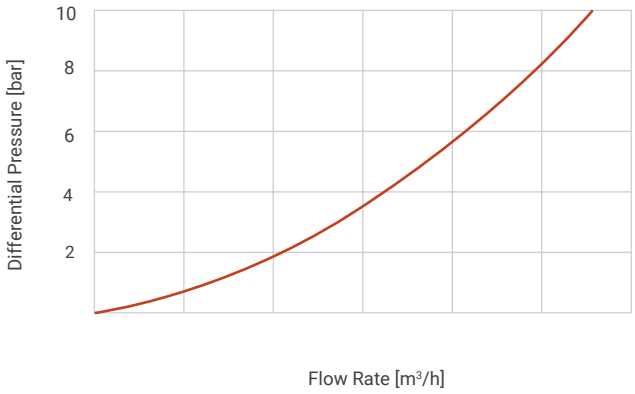
*Other configurations are available upon request

→ Flow charts

Air & Vacuum Flow Rate

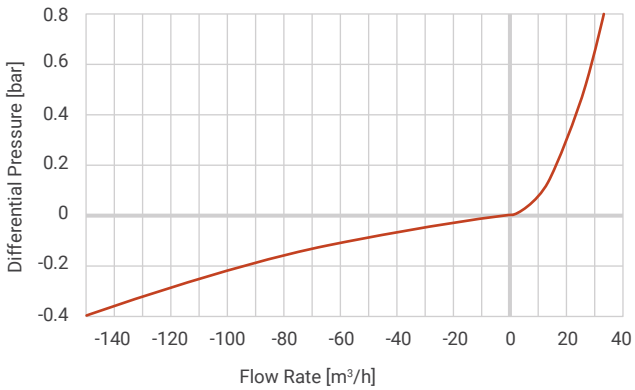


Automatic Air Release Flow Rate

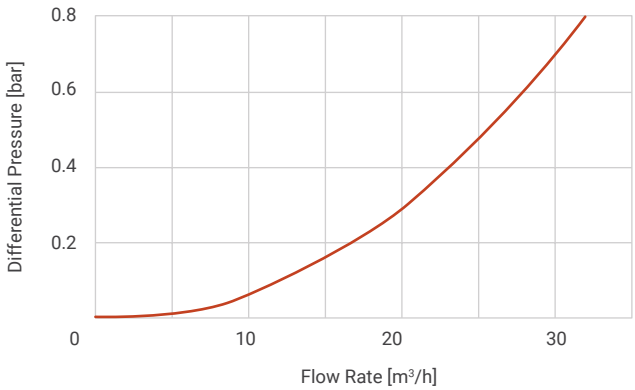


D-25 NS

Air & Vacuum Flow Rate



Air Discharge Flow Rate



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