

# DG10 / D40

The combination air valve has the features of both an air release valve and an air and vacuum valve. The air release component is designed to automatically release small pockets of air to the atmosphere as they accumulate at peaks or along a pipeline or piping system when it is full and operating under pressure.



Long-lasting performance



High durability



Easy maintenance

## / Benefits & Features

- **Long-lasting performance** Engineered with durability in mind. Supports long-term performance and reliability.
- **High durability** Offers superior resistance to chemicals and acids, minimizing maintenance and repair costs. Components are crafted from materials designed to withstand high acid concentrations found in mines.
- **Easy maintenance** Designed for effortless installation and upkeep, promoting convenience for users. Ensure long-term reliability with minimal maintenance effort.
- **Automatic air release** The large size of the automatic air release orifice relative to the air valve body: Discharges air at high flow rates. Lessens the danger of its obstruction by debris. Enables the usage of the patented rolling seal mechanism, making it less sensitive to pressure differential than a direct float seal.

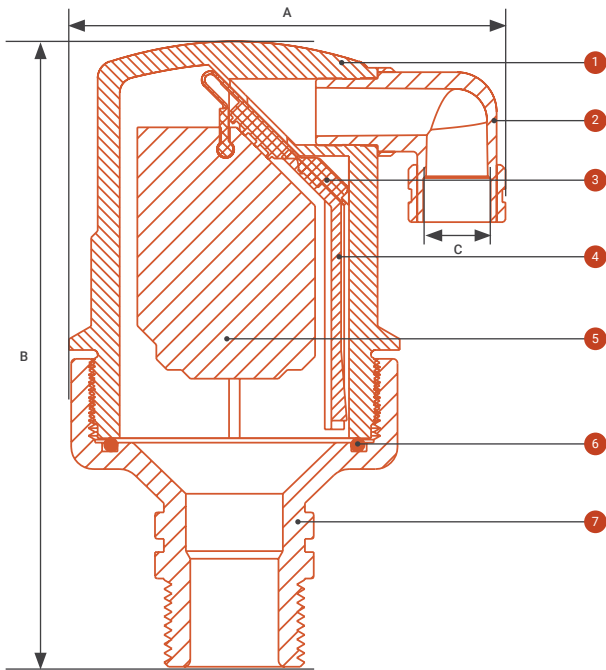
## / Specifications

- Working pressure range DG10: 0.1-10 bar / D40: 0.2-16 bar
- Testing pressure DG10: 16 bar / D40: 25 bar
- Maximum working temperature 60°C
- The body is made of high-strength composite materials and all operating parts are made of specially selected, corrosion-resistant materials.
- Due to its light weight, the valve may be installed on plastic piping systems, as well as other lightweight piping systems.

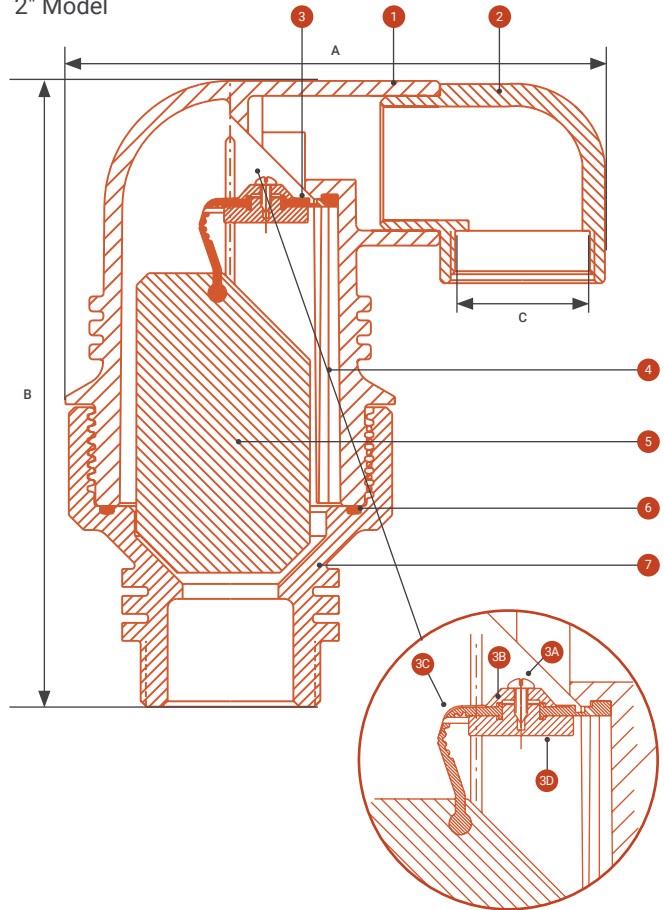
→ Technical dimensions

Nominal Size	Dimensions (mm)		Air release (mm)	Weight (kg)	Orifice area (mm <sup>2</sup> )	
	A	B	C		auto	a/v
1/2", 3/4", 1"	100	143	3/8" BSP female	0.33	7.8	100
2"	183	215	1 1/2" BSP female	1.10	12	804

1/2", 3/4", 1" Model



2" Model

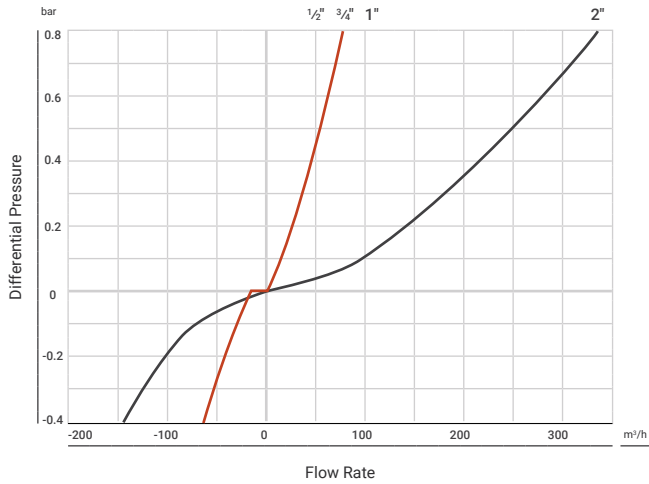


→ Components raw materials

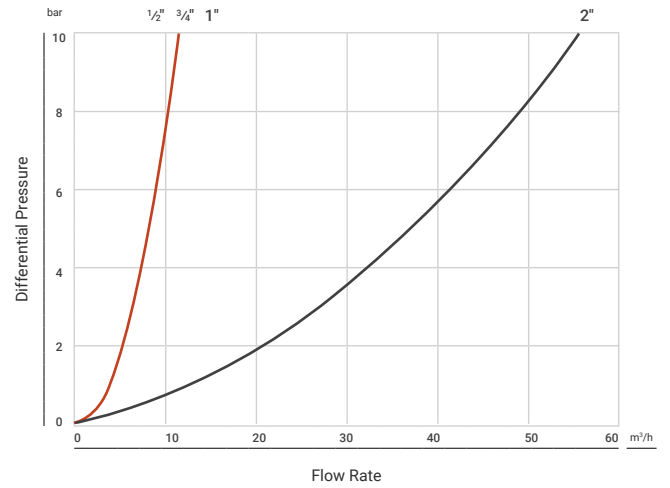
#	Part name	Material
1	Body	Reinforced nylon
2	Discharge outlet	Polypropylene
3	1/2", 3/4", 1" Rolling seal	EPDM
2" rolling seal assembly:		
3a	Screws	Stainless steel 304
3b	Plug cover	Reinforced nylon
3c	Rolling seal	EPDM
3d	Plug	Reinforced nylon
4	Clamping stem	Reinforced nylon
5	Float	Foamed polypropylene
6	O-ring	Buna-n
7	Base	Reinforced nylon / brass / stainless steel 316
8	Optional: ball valves	Brass nickel plated

→ **Head Loss**

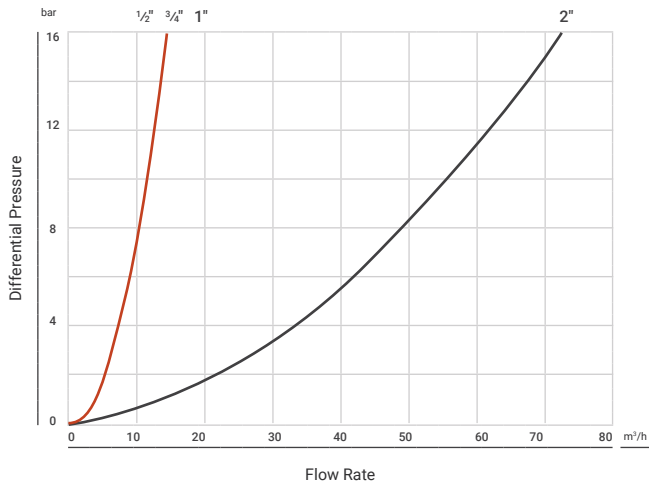
**Air & Vacuum Flow Rate**



**GD10 / PN 10 Automatic Air Release Flow Rate**



**D40 / PN 16 Automatic Air Release Flow Rate**



→ **Catalog numbers**

Model	Diameter	Connection	Max, working pressure (bar)	Catalog number
DG10	3/4"	BSP	10	70500-000520
		NPT	10	70561-001050
	1"	BSP	10	70500-000650
		NPT	10	70561-001200
	2"	NPT	10	70561-001660
		BSP	10	70500-001170
D40	3/4"	BSP	16	70500-000500
		NPT	16	70561-000850
	1"	BSP	16	70500-000600
		NPT	16	70561-001240
	2"	BSP	16	70500-001100
		NPT	16	70561-001400

→ **Catalog numbers examples**

An integrated chemical-resistant air valve, designed to improve hydraulic operation by protecting the pipeline, increasing pipeline efficiency and reducing energy requirements. generally located after the main valve and/or before the irrigation valve.

Description	Catalog number
D40 1" BSPT PP PN10 NTW NYLON BASE, VITON	70500-000640
D40 1" NPT PP PN10 VITON	70561-001220
D40 2" BSPT PP PN10 VITON, MINES	70500-001117
D40 2" BSPT PP PN10 NFR VITON	70500-001115
D40 2" BSPT STST316 PN16 PP, VITON, MINES	70500-002670
D40 2" NPT PP 150PSI NET VITON	70561-001600
D40 2" NPT PP PN10 NFR VITON	70561-001620
D40 2" NPT STST316 PN16 VITON	70561-000812

\*Other configurations are available upon request

06-12244-MIN-PS-0021-EN



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# D40L

Features of both an air release valve and an air & vacuum valve in a single body. This air valve is specifically designed to operate with liquids containing small suspended solids.



Long-lasting performance



High durability



Easy maintenance

## / Benefits & Features

- **Long-lasting performance** Engineered with durability in mind. Supports long-term performance and reliability.
- **High durability** Offers superior resistance to chemicals and acids, minimizing maintenance and repair costs. Components are crafted from materials designed to withstand high acid concentrations found in mines.
- **Easy maintenance** Designed for effortless installation and upkeep, promoting convenience for users. Ensure long-term reliability with minimal maintenance effort.
- **Automatic air release** The large size of the automatic air release orifice relative to the air valve body:  
Discharges air at high flow rates.  
Lessens the danger of its obstruction by debris.  
Enables the usage of the patented rolling seal mechanism, making it less sensitive to pressure differential than a direct float seal.

## / Specifications

- Working pressure range:  
Polypropilene: 10 bar  
Reinforced nylon, PVDF, Duplex, SST; 16 bar
- Testing pressure 1.5 times the maximum working pressure
- Maximum working temperature 60°C
- Maximum intermittent temperature 90°C

→ **Technical dimensions**

PP / Nylon / PVDF

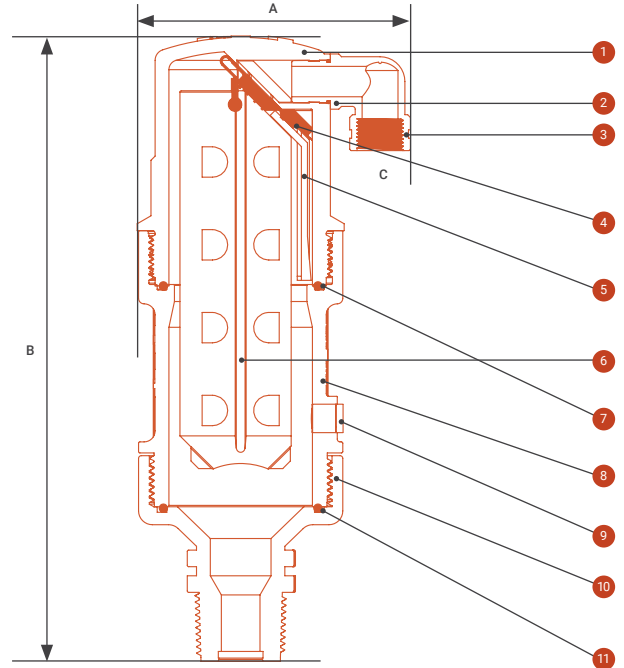
Model 1/2", 3/4", 1"	Dimensions (mm)		Air release	Weight (kg)	Orifice area (mm <sup>2</sup> )	
	A	B	C		auto	a/v
PP / NYLON / PVDF	99	227	3/8" BSP female	0.6	100	7.8
SST / Duplex	94	216	3/8" BSPT female	1.7	100	7.8

→ **Components raw materials**

PP / Nylon / PVDF

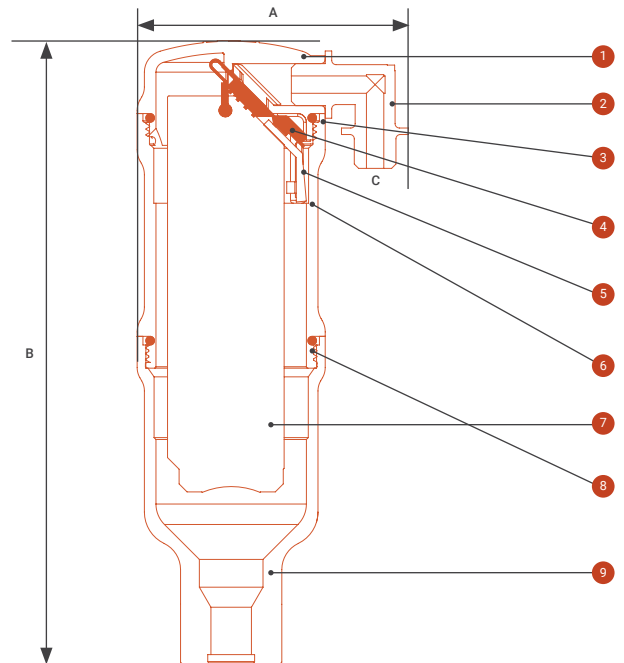
#	Part name	Material
1	Body	Polypropylene / Reinforced nylon / PVDF
2	O-ring	Buna-n / Viton / EPDM
3	Discharge outlet	Polypropylene
4	Rolling seal	EPDM / Viton
5	Clamping stem	Polypropylene
6	Float	Foamed polypropylene
7	O-ring	Buna-n / Viton / EPDM
8	Extension	Polypropylene / Reinforced nylon / PVDF
9	Closed port* (default)	
10	Base	Polypropylene / Reinforced nylon / PVDF
11	O-ring	Buna-n / Viton

\* Optional: Open Port / Schrader Valve / Plug



SST / Duplex

#	Part name	Material
1	Cover	Stainless steel 316 / Duplex
2	Air release outlet	Polypropylene
3	O-ring	Buna-n / Viton / EPDM
4	Rolling seal	EPDM / Viton
5	Clamping stem	Reinforced nylon
6	Extension	Stainless steel 316 / Duplex
7	Float	Foamed polypropylene
8	O-ring	Buna-n / Viton / EPDM
9	Body	Stainless steel 316 / Duplex



→ **Technical dimensions**

2"

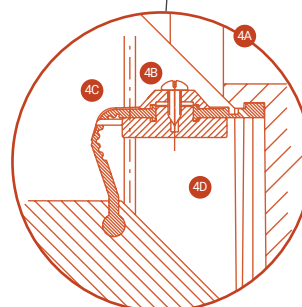
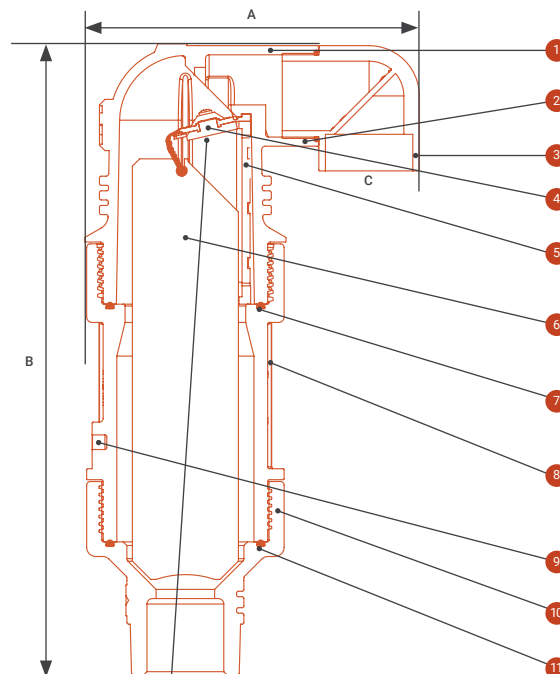
Size	Dimensions (mm)		Air release	Weight (kg)	Orifice area (mm <sup>2</sup> )	
	A	B	C		auto	a/v
2"	99	227	3/8" BSP female	0.6	100	7.8

→ **Components raw materials**

2"

#	Part name	Material
1	Body	Polypropylene / Reinforced nylon / Stainless steel 316 / PVDF
2	O-ring	Buna-n / Viton
3	Discharge outlet	Polypropylene
4	Rolling seal assembly	
4a	Screws	Stainless steel
4b	Plug cover	Reinforced nylon
4c	Rolling seal	EPDM
4d	Plug	Reinforced nylon
5	Clamping stem	Polypropylene
6	Float	Foamed polypropylene
7	O-ring	Buna-n / Viton
8	Extension	Polypropylene / Reinforced nylon / Stainless steel 316 / PVDF
9	Closed port* (default)	
10	Base	Polypropylene / Reinforced nylon / Stainless steel 316 / PVDF
11	O-ring	Buna-n / Viton

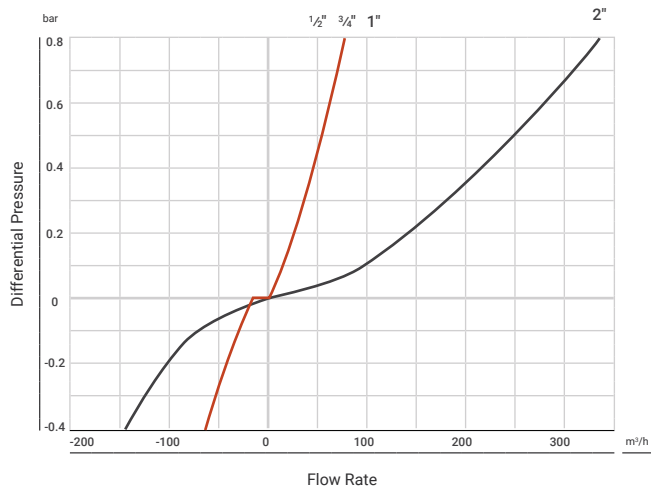
\* Optional: open port / Schrader valve / plug



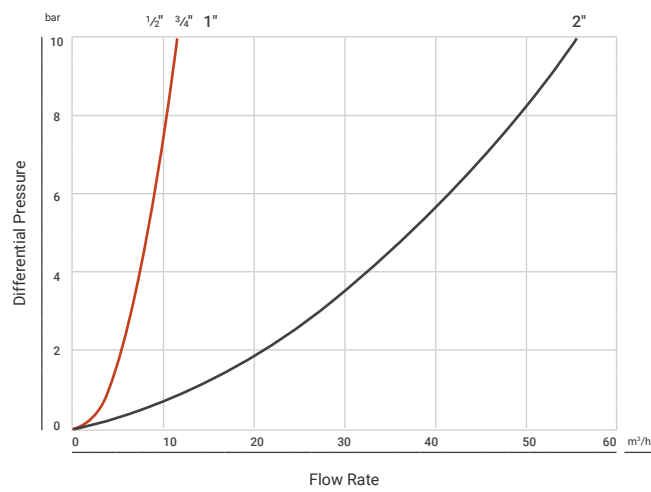


→ **Head loss**

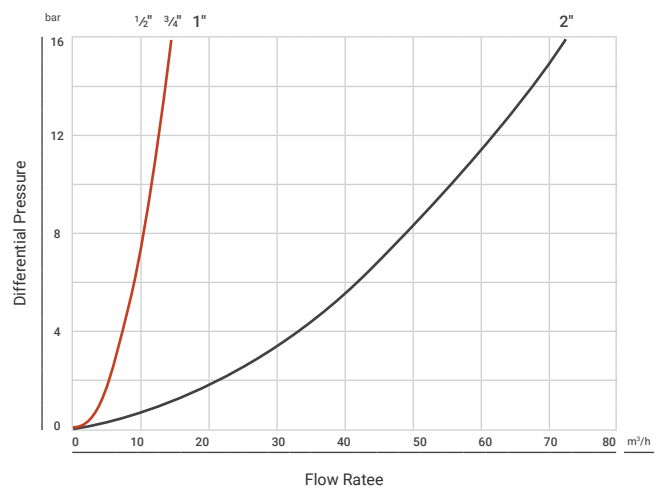
**Air & Vacuum Flow Rate**



**Automatic Air Release Flow Rate**



**Automatic Air Release Flow Rate**



→ **Catalog numbers**

Model	Diameter	Connection	Max. working pressure	Catalog number
D40L	1/2"	NPT	10	70561-000815
	3/4"	NPT	10	70561-000050
	1"	NPT	10	70561-000060
	2"	NPT	10	70561-000100
D40LP	1"	BSP	10	70500-000590

→ **Catalog numbers examples**

An integrated chemical-resistant air valve, designed to improve hydraulic operation by protecting the pipeline, increasing pipeline efficiency and reducing energy requirements .generally located after the main valve and/or before the irrigation valve.

Description	Catalog number
D40L 1/2" NPT PP 150PSI NET VITON	70561-000815
D40L 3/4" NPT PP 150PSI NTW VITON	70561-000050
D40L 1" NPT PP 150PSI NTW VITON	70561-000060
D40L 1" NPT STST316 250PSI VITON	70561-016310
D40L 2" NPT PP PN10 VITON	70561-000100

\*Other configurations are available upon request

06-12244-MIN-PS-0022-EN



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