

Automatic Air Release Valves for High-Pressure Systems



S-015 PN 40 S-016 PN 64 S-100 PN 100

Application

Water Supply

Description

The S-015, S-016 & S-100 are automatic air release valves installed on pressurized liquid transmission systems to release accumulated air, improving pipeline hydraulic efficiency by reducing head losses and improving flow.



Operation



Automatic
Air Release

Installation

- On high-pressure pumps
- On high-pressure delivery pipelines

Features and Benefits

All operating parts - corrosion-resistant materials	●	durable over time for work under harsh conditions
Rolling seal mechanism	●	leak-free sealing over wide range of pressure differentials
One-size orifice	●	covers a wide pressure range (up to 100 bar)
Lightweight, small dimensions	●	easily installed, even in compact locations

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Technical Specifications



Size range: 3/4"- 1"



Sealing pressure range: S-015: 0.2 - 40 bar (PN 40) S-016: 0.2 - 64 bar (PN 64) S-100: 0.2 - 100 bar (PN 100)
Testing pressure: 1.5 times maximum working pressure



Maximum working temperature: 60° C.
Maximum intermittent temperature: 90° C.

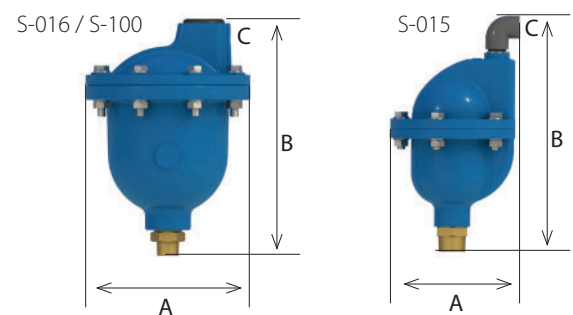


Valve coating: Fusion bonded epoxy coating in compliance with standard DIN 30677-2

Upon ordering, please specify: model, size, working pressure, thread/flange standard and type of liquid

Valve Selection Options

- Valve connection: Threaded BSP/NPT or Flanged ends to meet various requested standard



Dimensions and Weight

Model	Dimensions (mm)		Connections	Weight (kg)	Orifice Area (mm ²)
	max. A	B			
S-015	158	292	1/2" BSP Female	5.4	15
S-016 / S-100	197	295	1/2" BSP Female	13	15

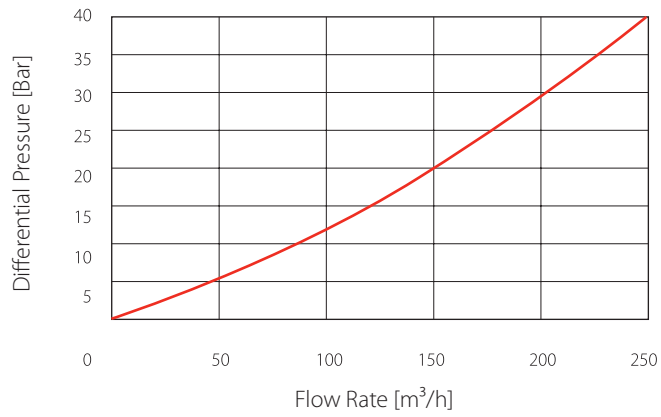
NOTE

All product weights and dimensions are approximate, due to the differences in flange standards, materials and variable accessories.

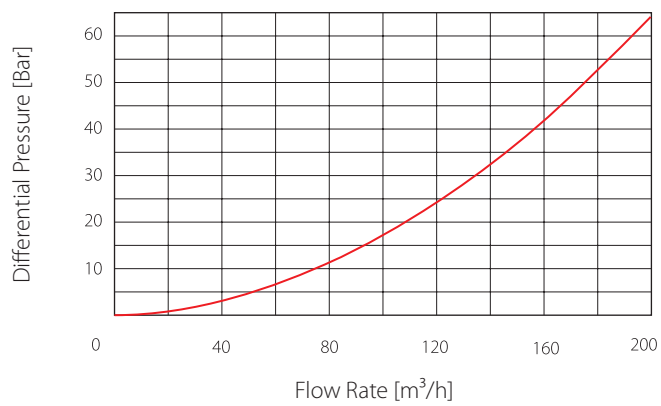
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Flow Charts

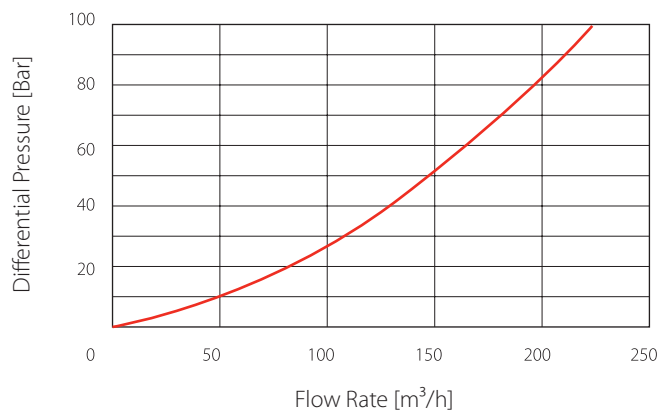
S-015 Automatic Air Release Flow Rate



S-016 Automatic Air Release Flow Rate



S-100 Automatic Air Release Flow Rate



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S-015 PN 40

Parts List and Specification

	Part	Material
1	Cover Assembly	
1a	Air Release Elbow	PVC
1b	Circlip	Stainless Steel 304
1c	Cover	Ductile Iron
2	Sealing Assembly	
2a	O-Ring	NBR / EPDM
2b	Orifice Seat	Reinforced Nylon
2c	Rolling Seal	EPDM
2d	Lever	Reinforced Nylon
2e	Roll Pin	Stainless Steel 304
3	Float Assembly	
3a	Roll Pin	Stainless Steel 304
3b	Float	Polypropylene/Stainless Steel 316
4	Body Assembly	
4a	O-Ring	NBR / EPDM
4b	Bolts Nuts & Washers	Steel / Stainless Steel 316
4c	Body	Ductile Iron
4d	Adaptor	Brass

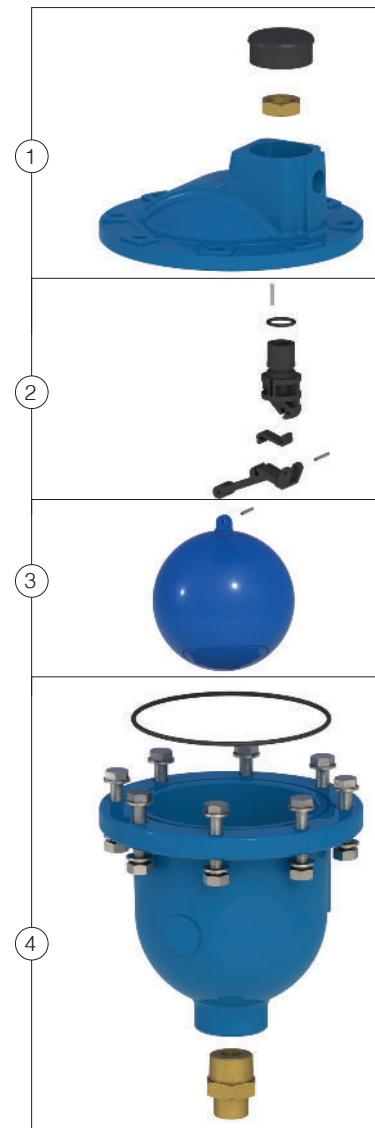


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S-016 PN 64 S-100 PN 100

Parts List and Specification

	Part	Material
1	Cover Assembly	
1a	Orifice Cover	Polypropylene
1b	Nut	Brass
1c	Cover	Cast Steel
2	Sealing Assembly	
2a	Stopper Pin	Stainless Steel 304
2b	O-Ring	NBR / EPDM
2c	Orifice Seat	Reinforced Nylon
2d	Rolling Seal	EPDM
2e	Lever	Reinforced Nylon
2f	Roll Pin	Stainless Steel 304
3	Float Assembly	
3a	Roll Pin	Stainless Steel 304
3b	Float	Polypropylene/Stainless Steel 316
4	Body Assembly	
4a	O-Ring	NBR / EPDM
4b	Bolts Nuts & Washers	Steel / Stainless Steel 316
4c	Body	Cast Steel
4d	Adaptor	Brass



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A.R.I. FLOW CONTROL ACCESSORIES Ltd.

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