A.R.I. K-016/K-100

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Waterworks

High Pressure Air & Vacuum Valve

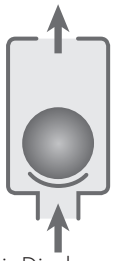
Description

The K-016/K-100 are reduced bore Air & Vacuum air valves installed on liquid transmission systems to increase efficiency and reduce energy requirements by improving the hydraulic operation of the system.

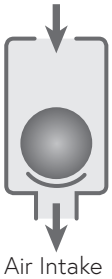
Installation

- Municipal and industrial water conveyance systems
- Water conveyance systems requiring high pressure valves

Operation



Air Discharge



Air Intake

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Features and Benefits

Dynamic design	High capacity air discharge, no premature closure
Unique design	Easy to install and simple to maintain, long-term maintenance-free operation
Accessible discharge outlet	Compatible for connections
All internal parts - stainless steel 316, polymer, rubber materials	Non-corrosive and durable

Technical Specifications

Size range	1" - 8"
Sealing pressure range	K-016: 0.2 - 64 bar (PN 64) K-100: 0.2 - 100 bar (PN 100)
Temperature	Maximum working temperature: 60° C. Maximum intermittent temperature: 90° C. Testing pressure: 1.5 times maximum working pressure
Valve coating	Fusion bonded epoxy coating in compliance with standard DIN 30677-2
Upon ordering, please specify: model, size, working pressure, Flange standard and type of liquid	

Valve Selection Options

Valve connection	Flanged ends to meet various requested standard

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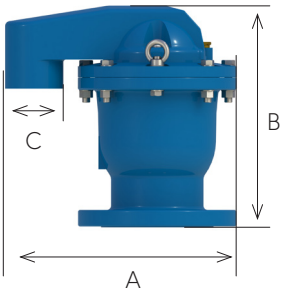
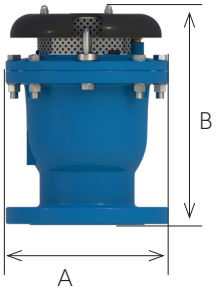
Dimensions and Weight

Model	Dimensions (mm)		Connection	Weight (kg)	Orifice Area (mm2)
	A	B	C		A / V
Elbow cover models					
1" (25 mm) FL	165	260	1.5" BSP/NPSM Female	6.8	794
2" (50 mm) FL	210	276	1.5" BSP/NPSM Female	24	794
3" (80 mm) FL	235	289	2" BSP/NPSM Female	31	1809
4" (100 mm) FL	270	358	3" BSP/NPSM Female	50	3318
6" (150 mm) FL	556	536	108	115.8	17662
8" (200 mm) FL	556	536	108	120	17662
Screen cover models					
6" (150 mm) FL	556	536	-	115.8	17662
8" (200 mm) FL	556	536	-	120	17662





FL - Flanged

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

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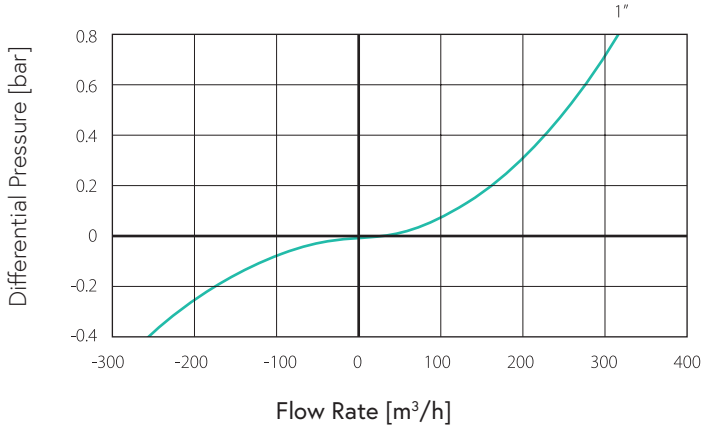
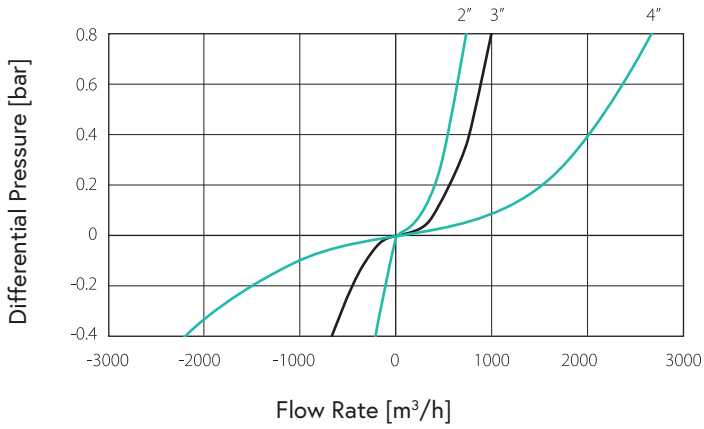
Flow Charts

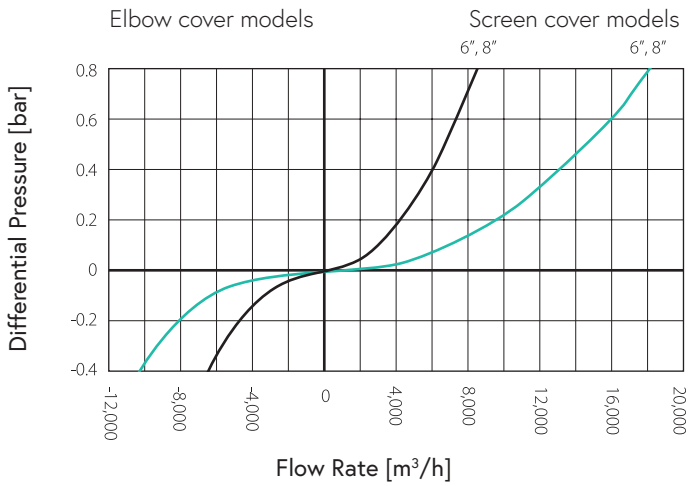
Air & Vacuum Flow Rate



Air & Vacuum Flow Rate



Air & Vacuum Flow Rate



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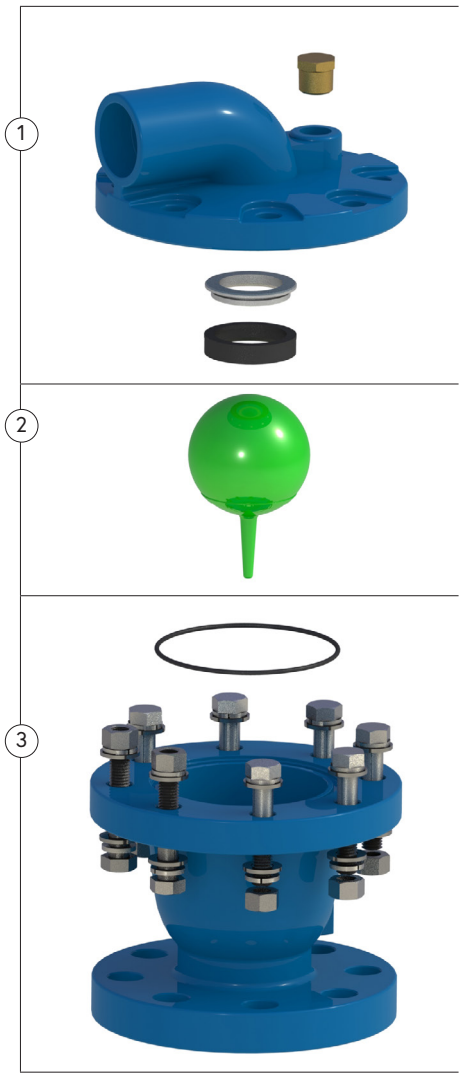
Parts List and Specifications 1"-4" Elbow Cover Models

No.	Part	Material
1	Cover Assembly	
1a	Plug	Brass
1b	Discharge Elbow	Cast Steel
1c	Orifice Seat	Stainless Steel 316
1d	Orifice Seal	EPDM
2	Float Assembly	
2a	Float	Polycarbonate/Stainless Steel 316
3	Body Assembly	
3a	O-Ring	EPDM
3b	Bolts Nuts & Washers	Steel/Stainless Steel 316
3c	Body	Cast Steel



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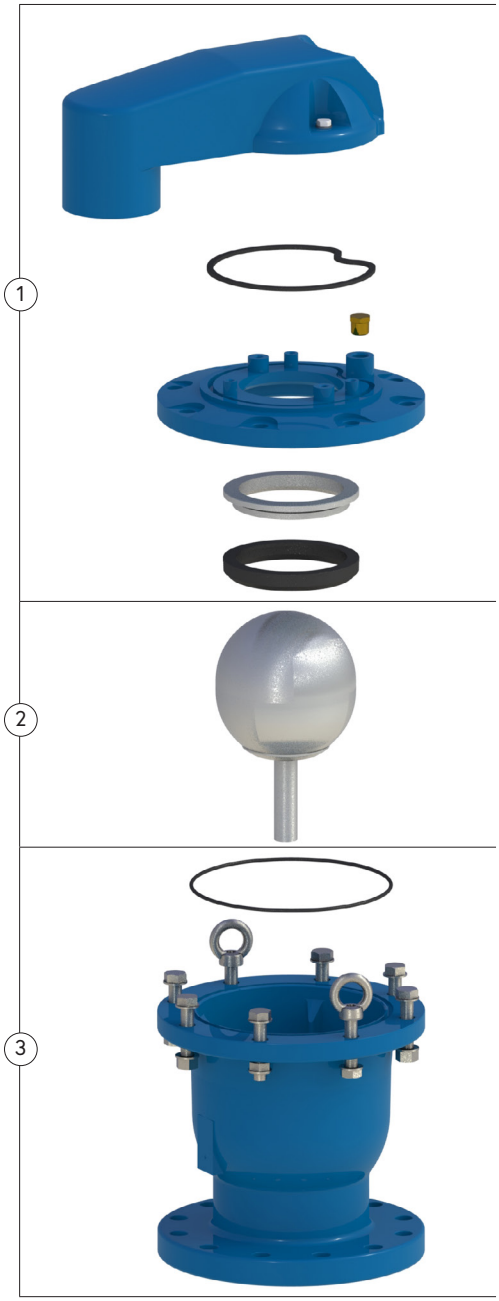
Parts List and Specifications 6"-8"Elbow Cover Models

No.	Part	Material
1	Cover Assembly	
1a	Discharge Elbow	Ductile Iron
1b	O-Ring	EPDM
1c	Plug	Brass
1d	Cover	Cast Steel
1e	Orifice Seat	Stainless Steel 316
1f	Orifice Seal	EPDM
2	Float Assembly	
2a	Float	Duplex
3	Body Assembly	
3a	O-Ring	EPDM
3b	Bolts, Nuts & Washers	Steel/Stainless Steel 316
3c	Body	Cast Steel



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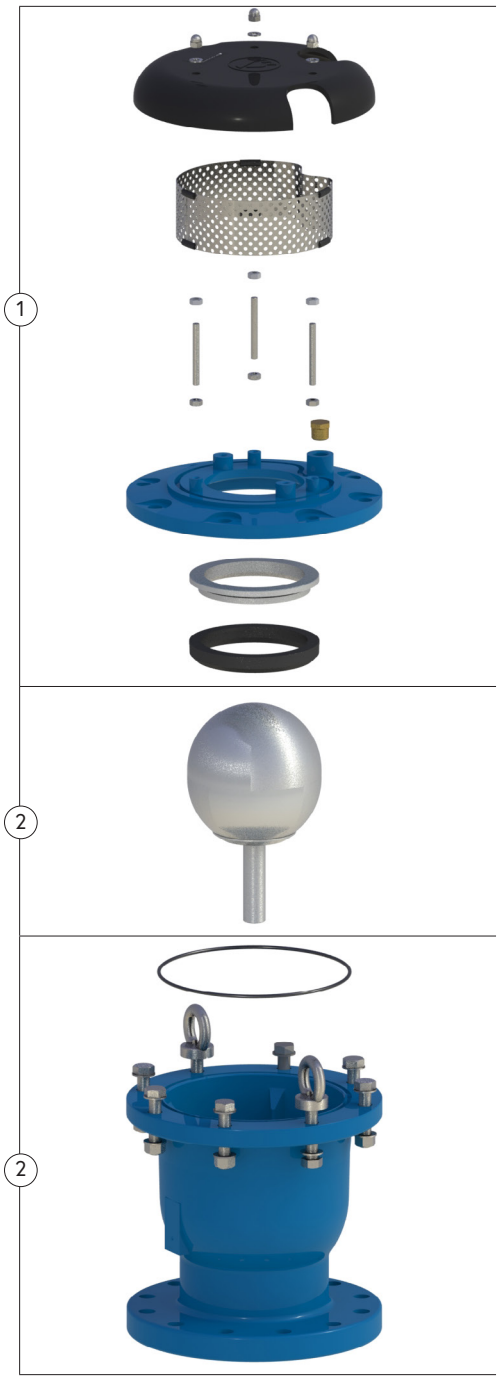
Parts List and Specifications 6"-8" Screen Cover Models

No.	Part	Material
1	Cover Assembly	
1a	Screen Cover	Polyethylene
1b	Screen	Stainless Steel 316
1c	Bolts Nuts & Washers	Steel/Stainless Steel 316
1d	Plug	Brass
1e	Cover	Cast Steel
1f	Orifice Seat	Stainless Steel 316
1g	Orifice Seal	EPDM
2	Float Assembly	
2a	Float	Duplex
3	Body Assembly	
3a	O-Ring	EPDM
3b	Bolts Nuts & Washers	Steel/Stainless Steel 316
3c	Body	Cast Steel



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