

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

**Aquestia**  
Directing the Flow



Waterworks

## High Pressure, Air & Vacuum Valve

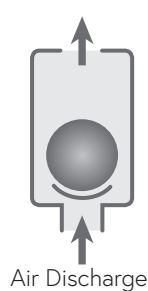
### Description

A.R.I. K-016, K100 are high pressure Air & Vacuum Air Valves. Valve operation includes venting air from a filling pipeline and also vacuum breaking (air intake) of a draining pipeline, to optimize pipeline hydraulic efficiency and flow.

### Installation

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

### Operation



## 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) Testing pressure: 1.5 times maximum working pressure
Temperature	Maximum working temperature: 60° C. Maximum intermittent temperature: 90° C.
Valve coating	Fusion bonded epoxy coating in compliance with standard DIN 30677-2

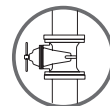
Upon ordering, please specify: model, size, working pressure, Flange standard and type of liquid

## Valve Selection Options

Valve connection	Flanged ends to meet various requested standard
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The valve installed under the air valve must be fully open to prevent damage or malfunction and ensure performance within the specifications of the air valve.

For complete installation instructions, please refer to the IOM document.



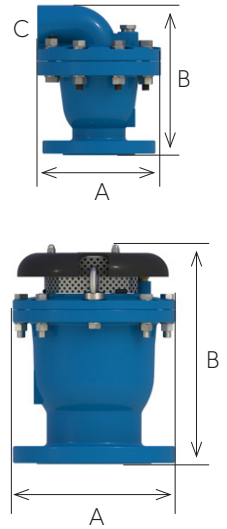
## Dimensions and Weight

Model	Dimensions (mm)		Connections	Weight (kg)	Orifice Area (mm <sup>2</sup> )
	A	B			
<b>Elbow cover models</b>					
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
<b>Screen cover models</b>					
6" (150 mm) FL	556	536	-	115.8	17662
8" (200 mm) FL	556	536	-	120	17662

FL - Flanged

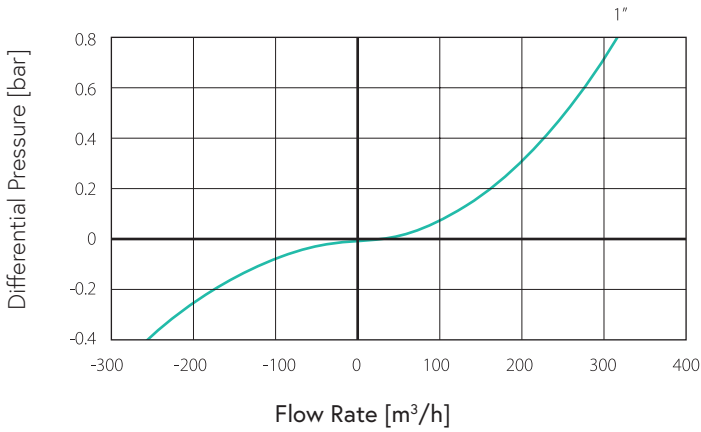
### NOTE

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

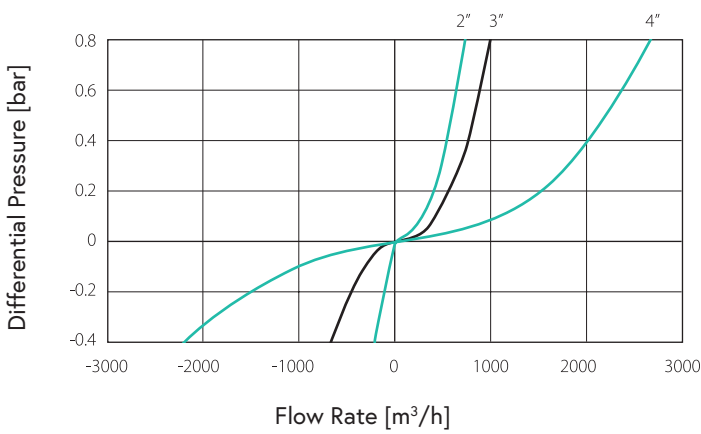


## Flow Charts

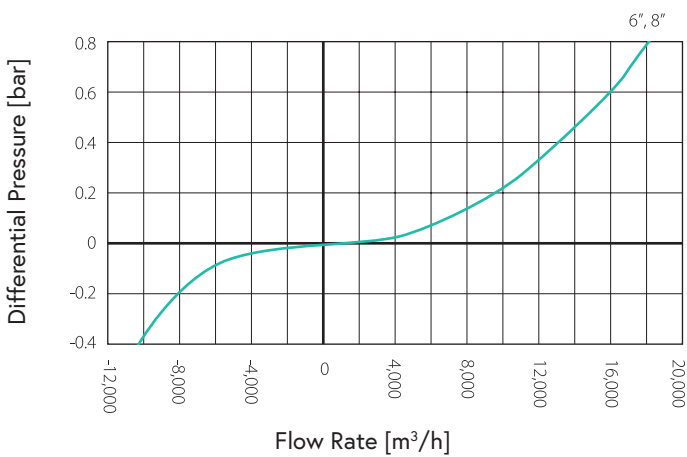
Air & Vacuum Flow Rate



Air & Vacuum Flow Rate

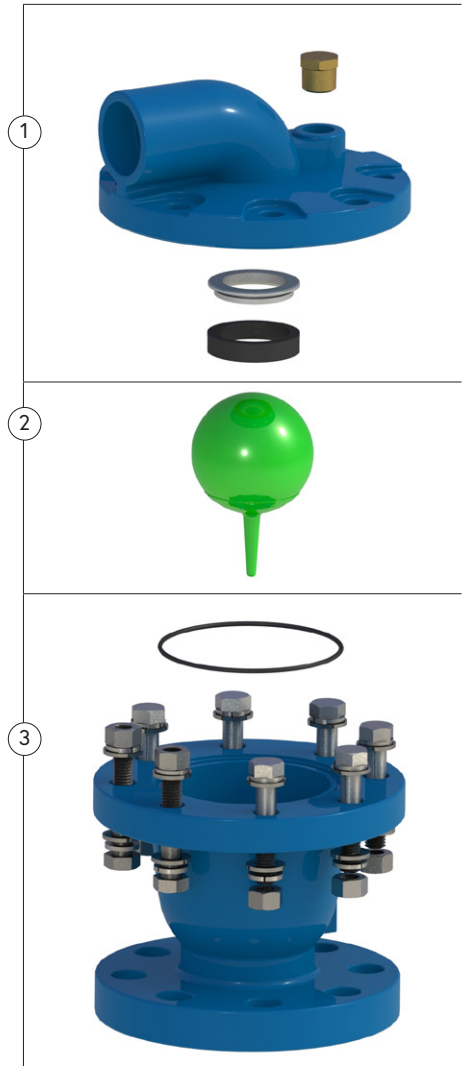


Air & Vacuum Flow Rate



## 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



## 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

