

A.R.I. K-060

Aquestia
Directing the Flow



Waterworks

Full-bore, Air & Vacuum Air Valve

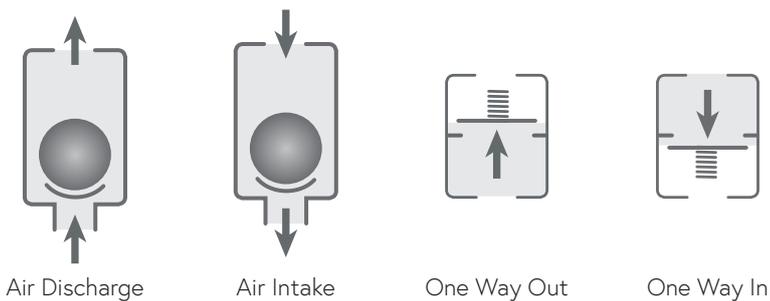
Description

A.R.I. K-060 Series is a full-bore Air & Vacuum Air Valve. 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

- Pump stations: downstream of the pump and the check valve
- Downstream and upstream of shut-off valves
- Downstream of deep-well pumps
- On long constant-sloped pipeline segments
- At peaks along the pipeline and at peaks relative to hydraulic gradient
- At end lines
- Before water meters
- On strainers and filters
- Municipal and industrial water conveyance systems

Operation



Features and Benefits

Flow cross-sections equal to or greater than nominal port area	maximum flow
Reliable operation	reduces water hammer impact
Saves energy and increases system efficiency	high capacity air discharge
Dynamic design	high capacity air discharge, no premature closure
Installation and maintenance	easy to install and simple to maintain
Unique orifice seat / seal design	long-term maintenance-free operation
Screen protected outlet	prevents intrusion of insects and debris
All internal operating parts – stainless steel 316, polymers and rubber materials	non-corrosive and durable
ATEX certified air valves 	certification is conditional on the customer connecting the designated part on the product to a dedicated ground connection point.
NSF/ANSI 61 Certified & Listed	for Drinking Water System Component

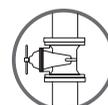
Technical Specifications

Size range	1" - 10" (K-065 UP TO 8")
Sealing pressure range	A.R.I. K-060 0.05 - 16 bar (PN16) A.R.I. K-062 0.2 - 25 bar (PN25) A.R.I. K-065 0.2 - 40 bar (PN40)
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, thread/flange standard and type of liquid

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.



Valve Selection Options

Models	A.R.I K-060 A.R.I K-062 A.R.I K-065
Valve connection	Threaded male BSPT/NPT (1"-2") Flanged ends to meet various requested standards (2"-10")
Standard materials	Cast ductile iron body
Optional add-on components	One-way Out attachment, allows for air discharge only, prevents air intake One-way In attachment, allows air intake only, prevents air discharge
Pressure rating	PN16 A.R.I. K-060 PN25 A.R.I. K-062 PN40 A.R.I. K-065
Additional product configurations	SB Underground Air Valve System



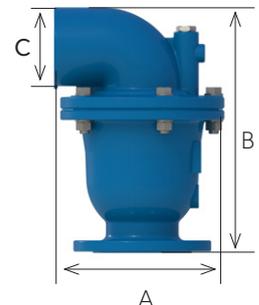
Horizontal Outlet



Screen Cover

Dimensions and Weight

Model	Size	Dimensions (mm)		Connections	Weight (kg)	Orifice Area (mm ²)
		max. A	B			
Horizontal Outlet	1" (25mm) TRH	144	220	1½" Female	4.3	507
	2" (50mm) TRH	190	265	2" Female	10	1960
	2" (50mm) FL	190	252	2" Female	12	1960
	3" (80mm) FL	230	330	3" Female	19	5030
	4" (100mm) FL	272	395	4" Female	30	7850
	6" (150mm) FL	408	720	6" Female	89	17662
Screen Cover	2" (50mm) FL	185	231	-	10	1960
	2" (50mm) FL	185	218	-	10	1960
	3" (80mm) FL	219	286	-	18	5030
	4" (100mm) FL	262	346	-	26	7850
	6" (150mm) FL	375	507	-	74	17662
	8" (200mm) FL	463	641	-	112	31400
	10" (250mm) FL	586	788	-	238	49087



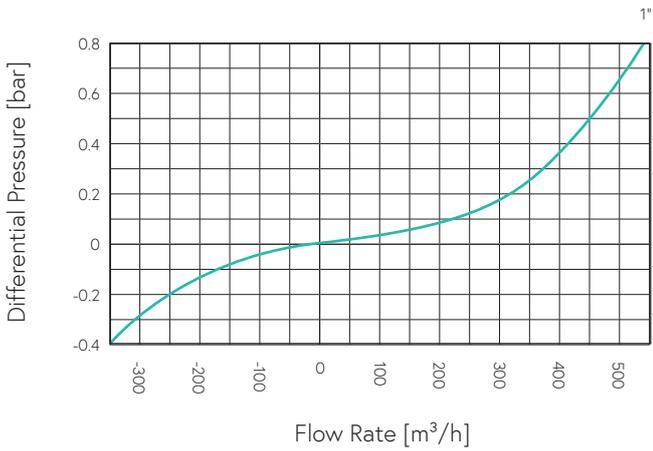
FL - Flanged THR - Threaded FL - Flanged THR - Threaded

NOTE

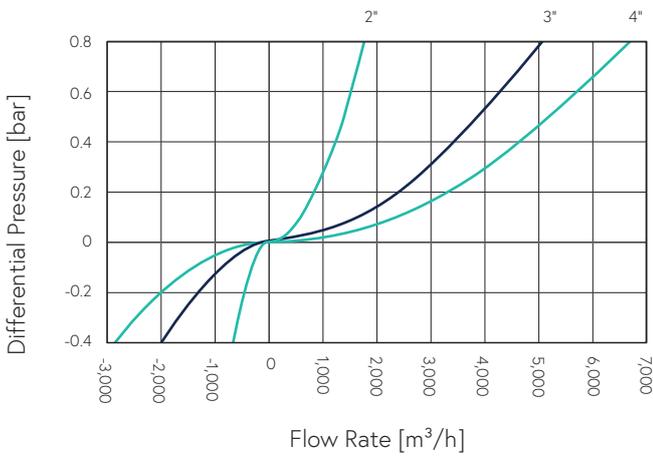
Dimension A in the picture and in the table shows the maximum product width. This width can be reduced by changing the cover direction. All product weights are approximate, due to the differences in flange standards, materials and variable accessories.

Flow Charts

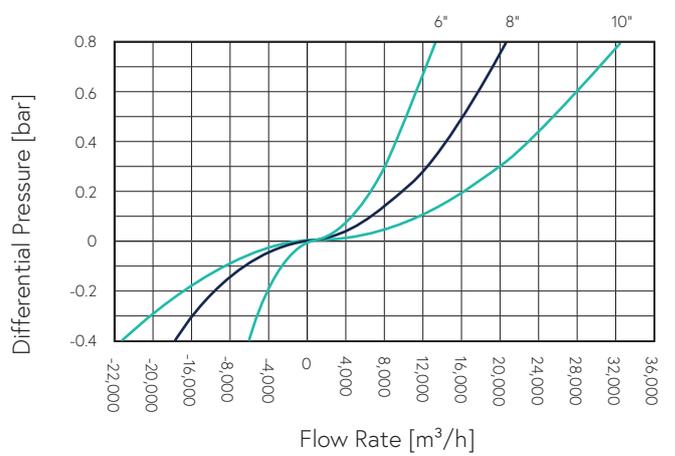
Air & Vacuum Flow Rate



Air & Vacuum Flow Rate



Air & Vacuum Flow Rate



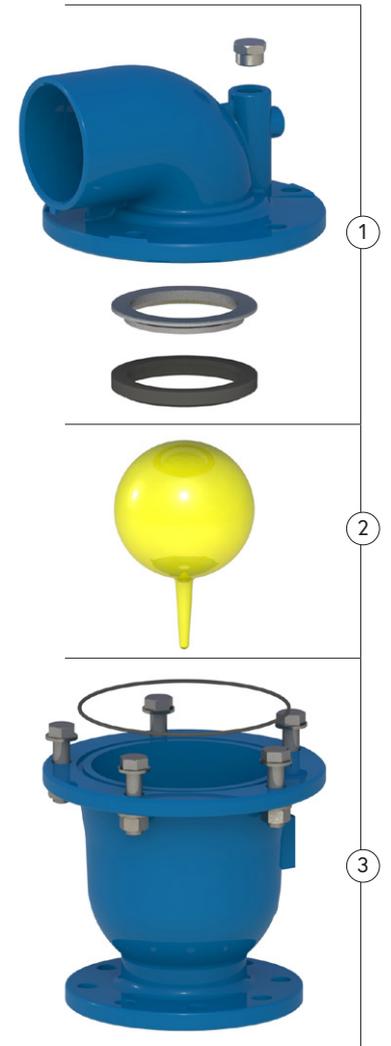
1" Horizontal Outlet Models Parts List and Specifications

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



2"-6" Horizontal Outlet Models Parts List and Specifications

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



2"-10" Screen Cover Models Parts List and Specifications

No.	Part	Material
1	Cover Assembly	
1a	Screen Cover	Polypropylene/Ductile Iron
1b	Screen	Stainless Steel 316
1c	Bolts, Nuts & Washers	Stainless Steel 316
1d	Plug	Stainless Steel 316
1e	Cover	Ductile Iron
1f	Orifice Seat	Stainless Steel 316
1g	Orifice Seal	EPDM
3	Float	Polycarbonate/Stainless Steel 316
3	Body Assembly	
3a	O-Ring	EPDM
3b	Bolts, Nuts & Washers	Steel/Stainless Steel 316
3c	Body	Ductile Iron

