△ **A.R.I.** K-060





Full-bore, Air & Vacuum Air Valve Series



A.R.I. K-060 is a full-bore Air & Vacuum Air Valve Series. 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
- Desalination plants along the process water lines and RO membranes
- Mining sites along the process water lines

Operation





Air Discharge

Air Intake





Features and Benefits

Flow cross-sections	Equal to or greater than nominal port area		
Simple product design	Easy to install and maintain, reduces downtime		
	High-capacity air discharge, no premature closure		
Aerodynamic design	Reduces water hammer impact		
	Saves energy and increases system efficiency		
Unique orifice seat / seal design	Long-term maintenance-free operation		
Screen protected outlet	Prevents intrusion of insects and debris		
Construction materials	Non-corrosive and durable		
Ex ATEX certified air valves	ATEX certified air valves are optional by customer request. Certification is conditional upon the customer connecting the designated part on the product to a dedicated ground connection point		
NSF/ANSI/CAN 61 certified & listed	For drinking water system component		
NSF/ANSI 372 certified & listed	Conforms with lead content requirements for "lead-free" plumbing		

Technical Specifications

Size range	1"- 10" (K-065 UP TO 8")	
Working pressure range	A.R.I. K-060	
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 (applied on Cast Steel and Cast Ductile Iron valves)	
Upon ordering, please specify: model, size, working pressure, thread/flange standard and type of liquid		

The isolation 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")	
Construction 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	





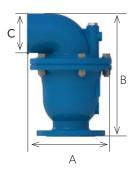
Dimensions and Weight

Horizontal Outlet

Screen Cover

Model	Size	Dimensions (mm)		Connections	Weight (kg)	Orifice Area (mm²)
		max. A	В	С		A/V
7	1" (25mm) TRH	144	220	1½" Female	4.3	507
utle	2" (50mm) TRH	190	265	2" Female	10	1960
	2" (50mm) FL	190	252	2" Female	12	1960
ont	3" (80mm) FL	230	330	3" Female	19	5030
Horizontal Outlet	4" (100mm) FL	272	395	4" Female	30	7850
	6" (150mm) FL	408	720	6" Female	89	17662

	2" (50mm) FL	185	231	-	10	1960
_	2" (50mm) FL	185	218	-	10	1960
over	3" (80mm) FL	219	286	=	18	5030
) ue	4" (100mm) FL	262	346	=	26	7850
Screen	6" (150mm) FL	375	507	=	74	17662
S	8" (200mm) FL	463	641	-	112	31400
	10" (250mm) FL	586	788	-	238	49087



FL - Flanged THR - Threaded

NOTE

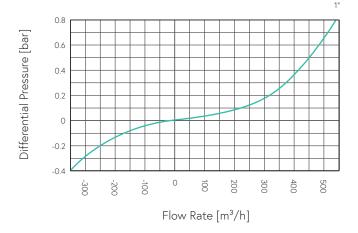
Dimension A in the picture and in the table shows the maximum product width. This width can be reduced by changing the cover direction. All product weights are approximate, due to the differences in flange standards, materials and variable accessories.

△ **A.R.I.** K-060

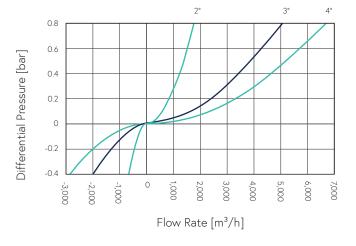


> Flow Charts

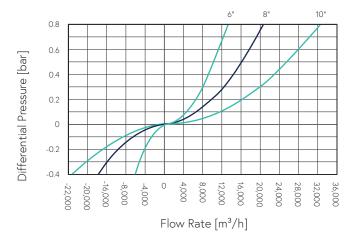
Air & Vacuum Flow Rate



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
3с	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	Polypropylen / 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
2	Float	Polycarbonate / Stainless Steel 316
3	Body Assembly	
За	O-ring	EPDM
3b	Bolts, Nuts & Washers	Steel/Stainless Steel 316
3с	Body	Ductile Iron

