A.R.I.

K-060 HF 285 psi

K-062 HF 360 psi

K-064 HF 580 psi

Water Supply

NSF

Air & Vacuum Air Valve for High Flow

Description

The K-060 HF series Air & Vacuum Valves are designed to automatically discharge or admit large volumes of air during the filling or draining of a pipeline or piping system. This valve will open to relieve negative pressures valve at pump shut-off and at water column separation.

Applications

- Municipal and industrial water conveyance systems.
- Water pipelines vulnerable to vandalism and/or water theft.
- Water systems found in remote areas.
- Water systems with high pressure demands (K-062, K-064).

Operation

The air & vacuum valve discharges air at high flow rates during the filling of the system and admits air at high flow rates during drainage, pump shut-off or at water column separation.
High velocity air will not blow the float shut. Liquid entry will cause the sealing of the valve.
At any time during system operation, should internal pressure of the system fall below atmospheric pressure, air will enter the system.
The smooth discharge of air prevents pressure surges and other destructive phenomena.
The intake of air in response to negative pressure protects the system from destructive vacuum conditions and prevents damage caused by water column separation. Air entry is essential to efficiently drain the system.

As the system fills and is pressurized, the air valve functions in the following stages:

1. Air is discharged by the valve.
2. Liquid enters the valve, lifting the float which pushes the sealing mechanism to its sealing position.

When internal pressure falls below atmospheric pressure (negative pressure):

1. The float will drop down, immediately opening the air & vacuum orifice.
2. Air will enter the system.

Main Features

- Working pressure range:
K-060 HF 3 - 285 psi. ,K-062 HF 3 - 360 psi , K-064 HF 3 - 580 psi.
- Testing pressure for the air valve is 1.5 times its working pressure.
- Maximum working temperature: 140° F.
- Maximum intermittent temperature: 194° F.
- All main flow cross-sections are equal or greater than the nominal port area.
- Aerodynamic design enables high flow rates of air both at intake and at discharge.
- Reliable operation reduces water hammer incidents.
- Dynamic design allows for high capacity air discharge while preventing premature closure.
- Special orifice seat design: Stainless Steel and E.P.D.M. rubber, assures long-term maintenance-free operation.
- Screen protected outlet.
- The upper screen is protected with a protective cover.

Valve Selection

- Size Range: 2”-10” for all models in the series.
- These valves are manufactured with flanged ends to meet ASA standard or any requested standard.
- The 2”valve is also available with a threaded NPT connection.
- Valve coating: baked epoxy coating in accordance with the standard DIN 30677-2.
- Other coatings are available upon request.
- Alvailable as a combination air valve: D-060-C HF, D-062 HF, D-065 HF, with the addition of an Automatic Air Release valve.
- The K-060 HF-I series air & vacuum valve can be supplied with an optional In-only check valve attachment, allowing for air intake only; prevents air discharge.

Note

For best suitability, it is recommended to send the fluid chemical properties along with the valve request.

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

K-060 HF

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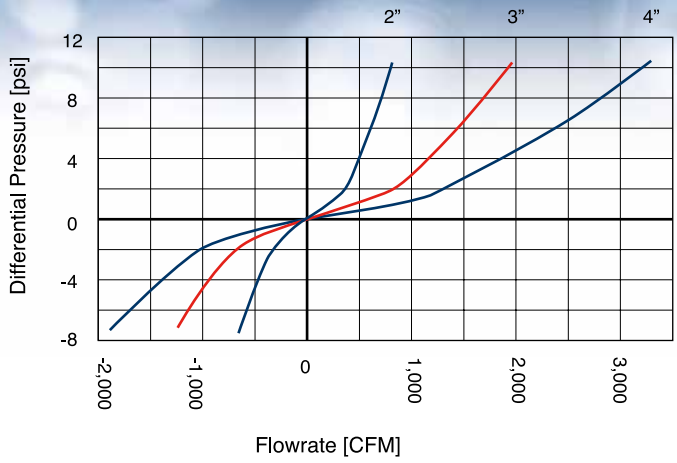
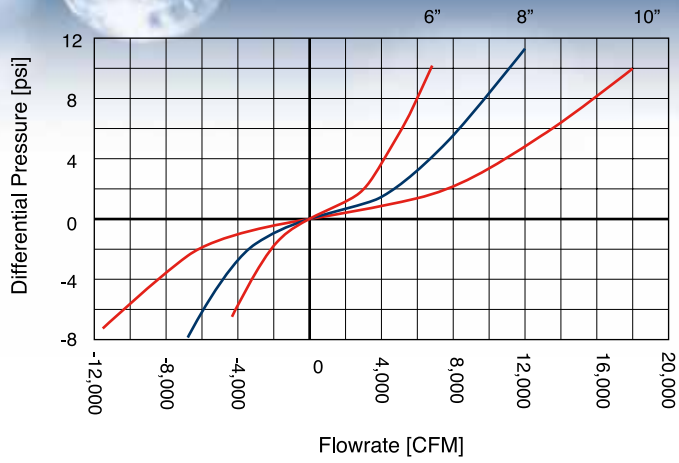
AIR & VACUUM FLOWRATE



AIR & VACUUM FLOWRATE

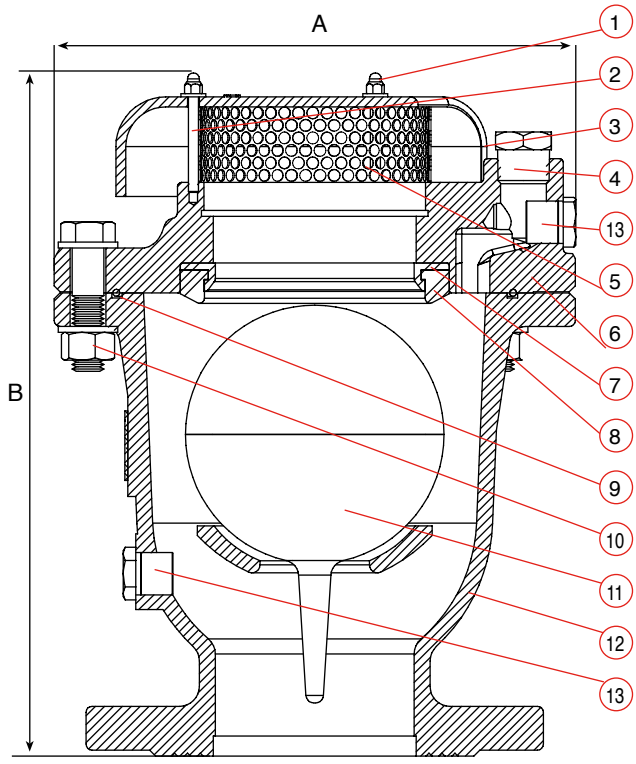


DIMENSIONS AND WEIGHT

Nominal Size	Dimensions Inch A	Dimensions Inch B	Weight Lbs. K-060 HF	Orifice Area Sq.in
2" Threaded	7.6	9.1	22.0	3.038
2” Flanged	7.6	8.6	23.5	3.038
3"	8.9	11.2	39.7	7.796
4"	10.3	13.5	59.5	12.167
6"	15.3	26.7	158.7	27.376
8"	18.3	30.7	264.5	48.670
10"	24.1	35.4	498.2	76.08

PARTS LIST AND SPECIFICATION

No.	Part	Material
1.	Domed Nut & Washer	NSF 61 Certified STST UNS 30400
2.	Bolt	NSF 61 Certified STST UNS 30400
3.	Screen Cover	Cast Iron ASTM A48 CL.35B / Resicoat RT R4
4.	Plug	Stainless Steel SAE 316
5.	Screen	NSF 61 Certified STST UNS 30400
6.	Cover	Ductile Iron ASTM A-536 60-40-18 / Resicoat RT R4
7.	Orifice Seat	Stainless Steel SAE 316 / UNS 31600
8.	Orifice Seal	NSF 61 Certified E.P.D.M
9.	O - Ring	NSF 61 Certified NBR 70
10.	Bolt, Nut & Washer	NSF 61 Certified STST UNS 30400
11.	Float	NSF 61 Certified STST UNS 31600 / NSF 61 Certified Polycarbonate
12.	Body	Ductile Iron ASTM A-536 60-40-18 / Resicoat RT R4
13.	Plug	Stainless Steel SAE 316



A.R.I. USA, Inc. A.R.I. FLOW CONTROL ACCESSORIES Ltd. www.ariusa.com ariusa@ariusa.com Tel: 877-536-6201