



K-060 HF 285 PSI

K-062 HF 360 PSI

K-064 HF 580 PSI



Air & Vacuum Air Valve for High Flow

Description

The K-060 HF series Air & Vacuum Valve discharges air during the filling or charging of the system and admits air into the system during system drainage, valve or pump shut-off or 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 HF, K-064 HF).

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 the drainage, pump shut-off or at water column separation.

High velocity air cannot blow the float shut. Water 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 re-enter the system.

The smooth release of air reduces 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 re-entry is essential to efficiently drain the system.

As the system starts to fill, the valve functions according to the following stages:

1. Entrapped air is released by the valve.
2. The liquid enters the valve, lifting the float and sealing the valve.

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

1. The float will immediately drop away from the orifice.
2. Air will reenter the system.

Main Features

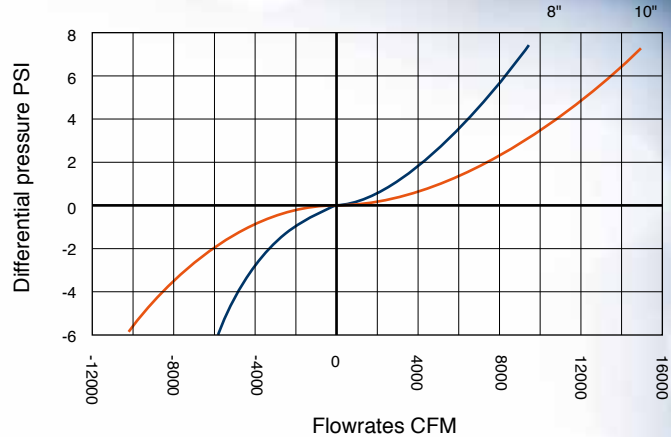
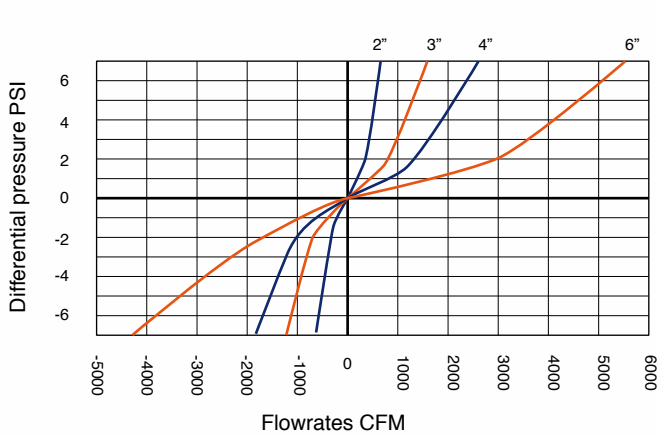
- Working pressure range:
 - K-060 HF 3 - 285 psi.
 - K-062 HF 3 - 360 psi
 - K-064 HF 3 - 580 psi
- Testing pressure for the air valve is 1.5 times its working pressure.
- Maximum working temperature: 140° F.
- Maximum intermittent temperature: 194° F.
- All main flow cross-sections are equal or greater 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 velocity 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.
- FBE coating, both interior & exterior, according to the international standard DIN 30677-2.

Valve Selection

- Size Range: 2" - 10" for all models in the series.
- These valves are manufactured with flanged ends to meet ASA standard (K-060 HF ASA 150, K-062 HF ASA 300 K-064 HF ASA 600) or any requested standard.
- The 2" valve is also available with a threaded male NPT connection.
- Valve coating: FBE coating according to the international standard DIN 30677-2.
- Other coatings are available upon request.
- The K-060HF series air & vacuum air valve is also available as a combination air valve for Models D-060-C HF, D-062 HF, D-065 HF, with the addition of an Automatic Air Release valve.
- 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.

AIR AND VACUUM FLOW RATE



DIMENSIONS AND WEIGHT

Nominal Size	Dimensions inch		Weight Lbs. (250 PSI)	Orifice Area Sq.in
	A	B		
2" Threaded	7.3	9.1	20.7	3.038
2" Flanged	7.3	8.6	22.7	3.038
3"	8.6	11.2	39.2	7.796
4"	10.6	13.5	58.2	12.167
6"	14.8	21.8	169.3	27.376
8"	18.3	25.3	256.1	48.670
10"	23.0	36.6	580.0	76.08

PARTS LIST AND SPECIFICATION

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

