CAST IRON

KINETIC AIR RELEASE VALVE

INTRODUCTION

The inclusion of air in water can have a very considerable negative effect on the functioning of a pipeline system, such as

- Reduction of flow
- pressure fluctuations
- water hammer
- dry running of pumps

Leader Kinetic Air Release Valve typically designed to mount at the high points in a piping system to automatically remove pockets of air as they accumulate. The valve can also be used to slowly release air in tanks and pump casings.

PRINCIPAL FEATURES

- Designed as per IS:14845.
- Combination of a small and a large orifice air valve.
- Wooden Ebonite Coated Balls for better sealing.
- Guides for small orifice float large orifice float for smooth movement without wobble during operation.
- Used to release entrapped air in any piping system.
- Maintains system flow efficiency.
- Temper Proof design, eliminates wastage of water and increase the performance of kinetic Air valve.
- Easy maintenance & longer life.
- Flanges as per IS:1538 (FF).
- An isolating valve must be provided below the air release valve to isolate it while doing the maintenance in the air release valve.
- Widely accepted by Municipal Corporations, Irrigation Authorities, Water Supply Authorities, National Thermal Power Corporation, Nuclear Power Corporation and Industrial users.

END CONNECTION

Flanges as per IS:1538 (FF).
Flange drilling as per other standards also available upon request.

UTILISATION & SERVICE

"LEADER" Cast Iron Kinetic Air Release Valve are suitable for above-ground installations.
Best suited for potable water, treated fresh water, neutral liquids & some gases.

WORKING PRESSURE

Maximum Working Pressure: 16 Bar.
See Pressure / Temperature Diagram.

TEMPERATURE LIMITS

Maximum Working temperature: 120ºC.
See Pressure / Temperature Diagram.

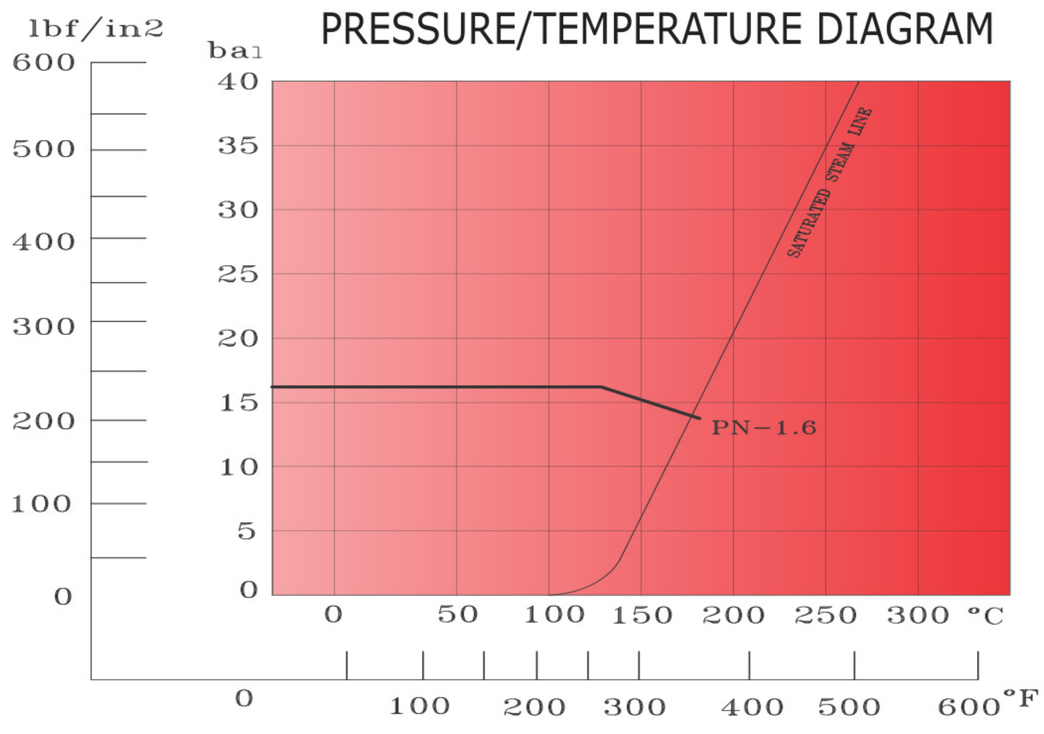
- **Item Code:** CI0094
- **Pressure Rating:** PN-1.6
- **Testing Standard:** IS 14845
- **Size Range:** 50mm to 200mm
- **Product Standard:** IS 14845

SUITABLE FOR

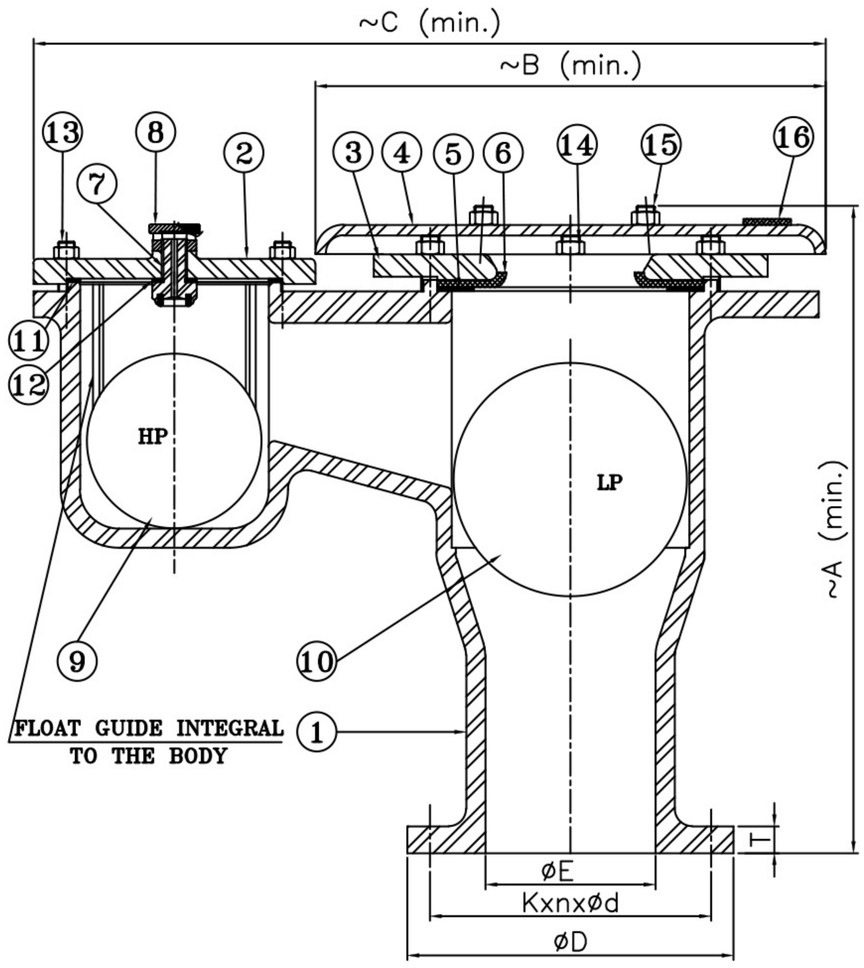
Water	Oil	Air	Gases
✓			

TEST PRESSURE (Hydrostatic)

Rating	PN-1.6
Body (Hyd.)	24 Bar
Seat (Hyd.)	17.6 Bar



Note : The above data is subject to change without notice due to our continuing product improvement program.



DIMENSIONAL DATA

SIZE (mm)	50	80	100	150	200
~A	280	305	360	487	700
~C	211	236	280	450	506
~B	352	373	424	674	739
ØE	50	80	100	150	200
ØD	165	200	220	285	340
T	16	21	22	23	24.5
K	125	160	180	240	295
n	4	4	8	8	8
Ød	19	19	19	23	23

MATERIAL SPECIFICATION

P.No.	NAME OF PART	MATERIAL	SPECIFICATION
1	BODY	CAST IRON	IS 210 Gr. FG260
2	H.P. COVER	CAST IRON	IS 210 Gr. FG260
3	LOW PR. COVER	CAST IRON	IS 210 Gr. FG260
4	COWL	CARBON STEEL	IS 2062
5	JOINT SUPPORTING RING	CARBON STEEL	IS 2062
6	L.P. SEAT RING	NATURAL RUBBER SHORE HARDNESS 70±5°	
7	H.P. ORIFICE	STAINLESS STEEL	ASTM A182 Gr. F6a
8	H.P. ORIFICE PLUG	STAINLESS STEEL	ASTM A182 Gr. F6a
9	BALL FOR H.P. CHAMBER	EBONETE COATED WOODEN BALL SHORE HARDNESS 80±5°	
10	BALL FOR L.P. CHAMBER	EBONETE COATED WOODEN BALL SHORE HARDNESS 100±5°	
11	GASKET	E.P.D.M.	
12	GASKET	E.P.D.M.	
13	STUDS & NUTS FOR H.P. COVER	H.T. STEEL & ALLOW STEEL	ASTM A 193 Gr. B7 & ASTM A194 Gr.2H
14	STUDS & NUTS FOR L.P. COVER	H.T. STEEL & ALLOW STEEL	ASTM A 193 Gr. B7 & ASTM A194 Gr.2H
15	STUDS & NUTS FOR COWL	H.T. STEEL & ALLOW STEEL	ASTM A 193 Gr. B7 & ASTM A194 Gr.2H
16	NAME PLATE	STAINLESS STEEL	TYPE 316

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