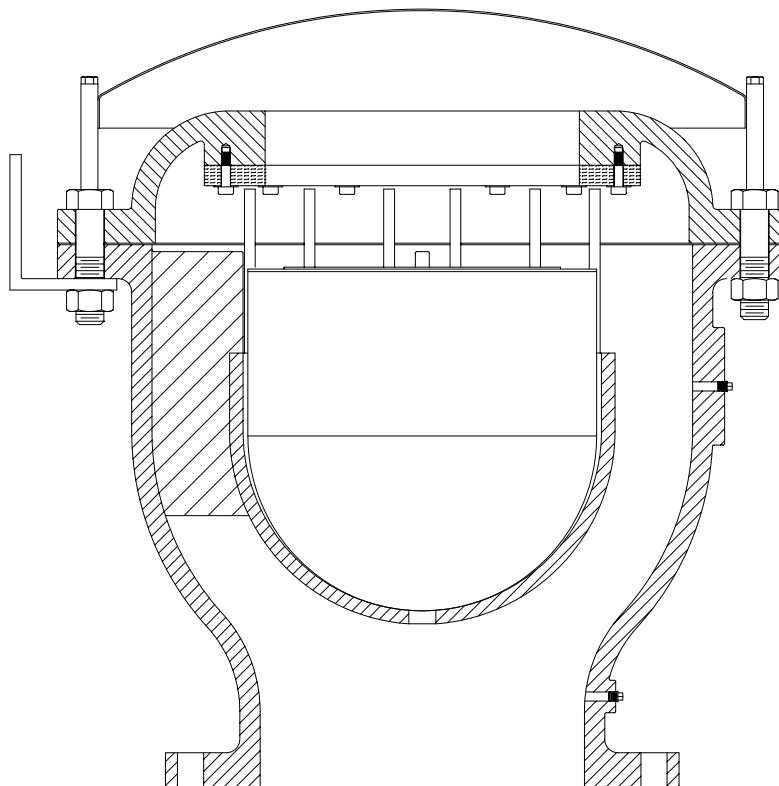




INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS



Clean Water Air & Vacuum Release Valve

Introduction

This manual will provide you with the information to properly install and maintain the Air & Vacuum valve to ensure a long service life. The Air & Vacuum Valve is ruggedly constructed with stainless steel trim to give years of trouble-free operation.

This valve is not intended for fluids containing suspended solids such as wastewater.

Installation

The installation of the valve is important for its proper operation. The valve must be installed in the vertical position. Next, lower valve over the mating nipple or flange. Using Teflon tape, apply tape to the mating pipe nipple. Lightly thread the valve to the pipe nipple until tight. If leakage occurs, check the threaded connection and re-tape if necessary.

Operation

Air & Vacuum valves shall be installed at high points in the line where air accumulates, or as directed by an engineer. The Air & Vacuum Valve will permit discharging the surge of air from an empty line when filling and relieve the vacuum when the line is draining or is under negative pressure.

Disassembly

The valve does not have to be removed from the pipeline for disassembly. All work on the this valve should be performed by a skilled mechanic using the proper tools.

1. Isolate the valve from the pipeline.
2. Remove Hood Assembly (1H) from Flange (2F) by removing the Hood Bolts (10). This gives access to the Flange (2F).
3. Remove Flange Bolts (11F) and Nuts (12). Remove Flange (2F) From Valve Body (3F).
4. Remove float (6) and inspect for dents.
5. Using a putty knife or razorblade, scrape off the flange Gasket (4) from the Valve Body (3F) and clean the body and to flange gasket surfaces with a wire brush.
6. Flip Flange (2F) upside down & remove Seat Bolts (8). Remove Seat (5) from Flange (2F). Inspect Seat for damage or wear. Replace if necessary.

Reassembly

All parts must be cleaned and gasket surfaces should be cleaned with a stiff wire brush in the direction of the serrations or machine marks. Worn parts, gaskets and seals should be replaced during reassembly.

1. Install the float (6) in the valve Body (3F).
2. Install Seat (5) into Flange (2F) using Seat Bolts (8).
3. Apply top flange gasket (4) to the valve body (3F). Be sure to align the gasket so that the center holes are concentric with each other.
4. Gently lower the top flange (2F) onto the valve body (3F). Once aligned, use flange bolts (11F) and nuts (12) and tighten to 30-90 ft-lbs.
5. Install the Hood Assembly (1H) using Bolts (10).
6. Open isolation valve (if applicable).

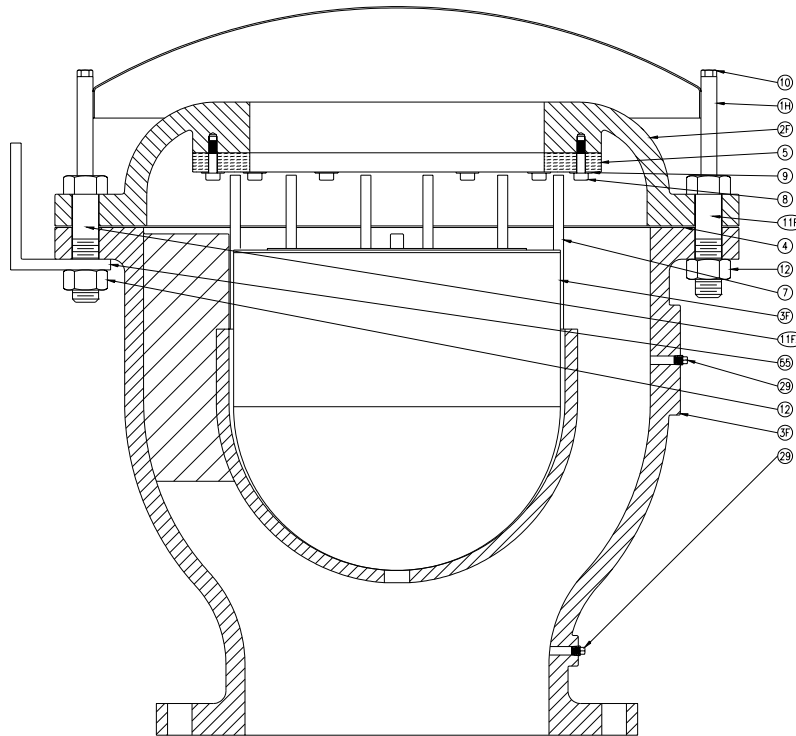
Note: During routine maintenance, it is advised to replace the valve seat (5).

Maintenance

Crispin Air & Vacuum Valves require no scheduled lubrication or maintenance.

Service

Parts and service are available from your local representative or distributor. Make note of the valve size, operating pressure and model number located on the valve tag.



PARTS LIST				
PART NO.	DWG. NO.	DESCRIPTION	MATERIAL	QTY.
1H	120-1	HOOD ASSEMBLY	STEEL	1
2F	120-2	FLANGE	CAST IRON	1
3F	120-3F	BODY, CLASS 125	CAST IRON	1
4	120-4	GASKET	ARMSTRONG	1
5	120-5	SEAT	BUNA-N-RUBBER	1
6	120-6	FLOAT	STAINLESS STEEL	1
7	120-7	FLOAT ROD GUIDE	STAINLESS STEEL	12
8	120-8	SEAT BOLTS	STAINLESS STEEL	10
9	120-9	WASHER	STAINLESS STEEL	10
10	18-9	BOLT (NOT SHOWN)	STEEL	5
11F	120-11F	BOLT	STEEL	16
12	100-12	NUT	STEEL	20
55	120-15	LIFT PLATE	STEEL	2
11FA	808-11H	BOLT	STEEL	4
29	27-29	PLUG	BRASS	2