

AL Series Air & Vacuum Release Valve for Clean Water Service, Sizes 6"-24", AWWA C512



TABLE OF CONTENTS

Introduction.....	page 2
Installation	page 2
Operation	page 2
Disassembly.....	page 2
Reassembly.....	page 2
Maintenance.....	page 3
Service	page 3



PRODUCT LINE	DATE	REVISION	PAGE
AL Clean Water Air & Vacuum Release Valve	6/28/23	0	1 of 3
SHEET	DOC. NO.		
Installation, Operation & Maintenance Manual	D-AV-AL-6-24-O&M-r0		

AL Series 6-24": Installation, Operation & Maintenance Manual

INTRODUCTION

This manual will provide you with the information to properly install and maintain the 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 a vertical position. Next, lower valve over the mating flange and flange gasket. Standard wrenches and sockets are to be used to tighten all nuts and bolts. Fasteners are to be tightened in a star pattern to ensure balance loading of bolts. If leakage occurs, snug bolts in the are of leaking or replace flange gasket.

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 valve should be performed by a skilled mechanic with 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.

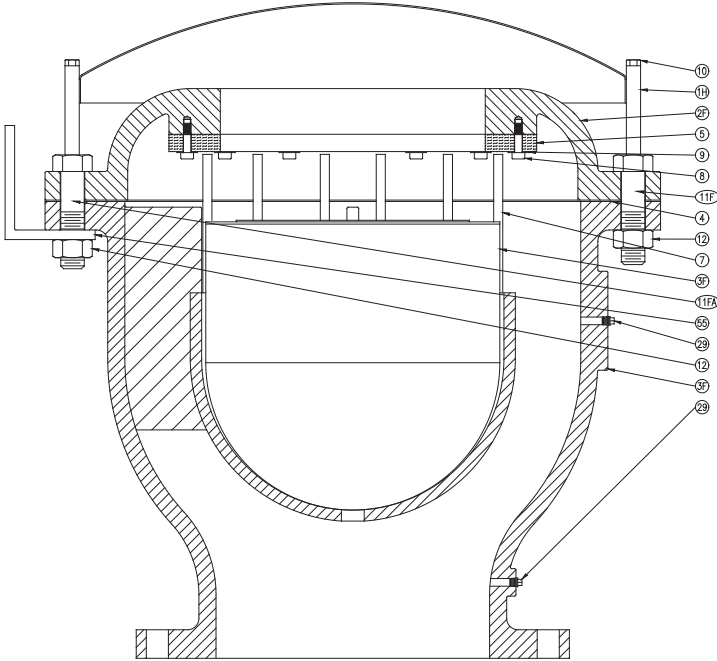
1. Install the float (6) in the valve Body (3F).
2. Install Seat (5) into Flange (2F) using Seat Bolts (8).
3. Apply top flange gasket (4) to the valve body (3F). Be sure to align the gasket so that the center holes are concentric with each other.
4. Gently lower the top flange (2F) onto the valve body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



PRODUCT LINE	DATE	REVISION	PAGE
AL Clean Water Air & Vacuum Release Valve	6/28/23	0	2 of 3
SHEET	DOC. NO.		
Installation, Operation & Maintenance Manual	D-AV-AL-6-24-O&M-r0		

AL Series 6-24": Installation, Operation & Maintenance Manual



AL Series Air & Vacuum Valve Parts List

ITEM	DESCRIPTION	MATERIAL
1H	HOOD ASSEMBLY	Steel
2F	FLANGE	Cast Iron
3F	BODY, CL 125	Cast Iron
4	GASKET	Armstrong
5	SEAT	Buna-N-Rubber
6	FLOAT	Stainless Steel
7	FLOAT ROD GUIDE	Stainless Steel
8	SEAT BOLTS	Stainless Steel
9	WASHER	Stainless Steel
10	BOLT (NOT SHOWN)	Steel
11F	BOLT	Steel
12	NUT	Steel
55	LIFT PLATE	Steel
11FA	BOLT	Steel
2950	PLUG	Brass

MAINTENANCE

Crispin AL Series Air & Vacuum valves require no scheduled lubrication or maintenance. However, it is advised to visually inspect the seating area for visual leaks on an annual basis.

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.



PRODUCT LINE AL Clean Water Air & Vacuum Release Valve	DATE 6/28/23	REVISION 0	PAGE 3 of 3
SHEET Installation, Operation & Maintenance Manual	DOC. NO. D-AV-AL-6-24-O&M-r0		