



MAINTENANCE INSTRUCTION MANUAL

**SWING CHECK VALVE
WITH LEVER & WEIGHT**

MODEL LVLWCV

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SWING CHECK VALVE WITH LEVER & WEIGHT INSTALLATION INSTRUCTIONS

MODEL LVLWCV

DESCRIPTION

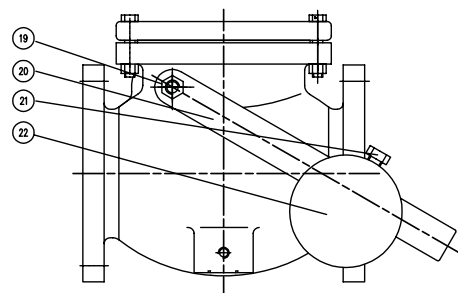
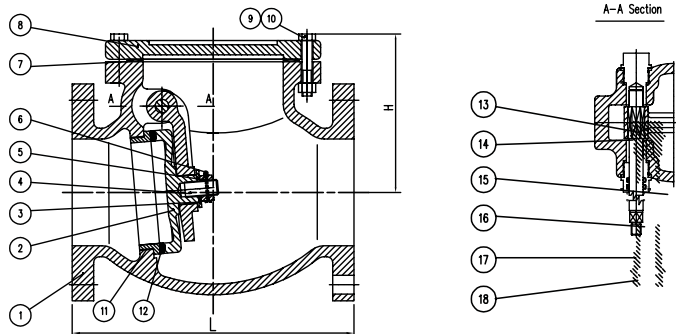
Swing Check Valves are used to prevent the back-flow of water within a piping system. They come with and without an outside Lever and Weight which conforms to AWWA C508. In order for a check valve to properly function there should be a differential pressure of at least ½ psi, this will prevent water hammer and chatter.



FEATURES

- Resilient Seated (EPDM rubber face on the ductile iron disc)
- Bronze Seat Ring
- “Full Waterway” design per AWWA C508 Standard
- Fusion Bonded Epoxy Powder Coated-certified to NSF/ANSI-61 for use in drinking water systems
- Fusion Bonded Epoxy Coated Interior and Exterior per AWWA C550 Standard
- Rated at 200 psi (working pressure)
- Flanged Ends to ANSI B16.1, Class 125
- 33.8° - 125.6° Temperature Range
- May be installed vertically or horizontally for vertical installations, flow must be in upward direction

TECHNICAL DATA



NO.	DESCRIPTION	MATERIAL
1	Body	Cast Iron, A126 Class B
2	Body Trim	Bronze, B62 C83600
3	Disc Trim	Rubber, EPDM
4	Disc	Cast Iron, A126 Class B
5	Hanger	Ductile Iron, A536, 65- 42-12
6	Bonnet	Cast Iron, A126 Class B
7	Disc Spacer	Carbon Steel
8	Hanger Bolt	Stainless Steel, SS304
9	Hanger Nut	Stainless Steel, SS304
10	Cotter Pin	Stainless Steel, SS304
11	Plug	Brass
12	Spacer	PTFE
13	Bushing	Brass
14	Bushing	Brass
15	O-Ring	Rubber, EPDM
16	Stem	Stainless Steel, SS304
17	Stem Nut	Carbon Steel
18	Bolt	Carbon Steel
19	Gasket	Graphite
20	Lever	Carbon Steel
21	Bolt	Carbon Steel
22	Weight	ASTM A126 Class B

DIMENSIONS									
SIZE	2"	2.5"	3"	4"	5"	6"	8"	10"	12"
L	8	8.5	9.5	11.5	13	14	19.5	24.5	27.52
H	4.8	5.3	5.55	6.6	7.17	8.46	10.5	12	13.5

INSTALLATION

Upon receipt of the valves, inspect them for conformance to what was ordered, and any damage that may have occurred during shipment. Carefully inspect the valve disc and seating area for any damage and be careful not to have them come into contact with any tools during the installation process. This installation must be performed by experienced contractors, and in accordance with any local requirements as well as AWWA specifications including AWWA M-11, which requires proper support of the valve and associated piping.

Step 1. Swing Check Valves must be installed with the hinge pin above the centerline of the pipe and can be installed vertically or horizontally. If installed vertically the flow must be up; the valve must be installed with the arrow pointing in the direction of flow. The end of the lever and weight, that is affixed to the hinge pin must be higher than the opposite end.

Step 2. Lift Swing Check Valves with a sling around the body, being careful not to damage the lever and weight mechanism. Allow enough room around the valve (top and sides) to be able to remove the inspection cover and to allow for the lever and weight to operate freely. Enough room around the valve is also required for the removal of the pivot pin.

NOTE: The lever and weight mechanism can be a safety hazard and should be installed away from personnel and/or guards should be installed.

Step 3. Before placing valve into position verify that the valve flanges and mating flanges conform to each other and that the flanges are free of any debris and/or dirt and have no damage to their faces. Check around the outside and inside the valve for any packaging material that needs to be removed or any other foreign material. Check to make sure that the disc and lever arm mechanism operate properly and have full motion.

Step 4. Place the valve into position, making sure the direction of flow is correct and be careful not to damage any of the flange faces. Once the valve is placed into its proper position carefully install the gaskets and bolting. Do not use impact guns to tighten the bolts; standard wrenches and/or sockets should be used. Tighten bolts evenly in a cross pattern to insure equal loading on the bolts.

OPERATION

After installation, the swing check valve will work as the flow requires. The disc will open and allow flow, when the upstream pressure is greater, and close off flow, when the downstream pressure equals or becomes greater than the upstream pressure. The outside lever should never be used to manually operate the valve, and should be kept free of any encumbrances.

MAINTENANCE

Maintenance is as follows;

Inspect sealing surfaces at regular intervals to check for any leakage. Check hinge pins, hinges, plugs and fasteners for wear and/or leakage, and replace or lubricate as required.