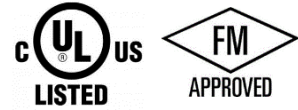


Resilient Seated Swing Check Valve



General

AFCO Resilient Swing Check Valve is a compact, swing type valve that allow fluids to flow through in one direction.

The valves are designed to active without external assistance and also designed with a removable cover for easy maintenance.

The valves conform to AWWA C508, Clear Waterway. All components are corrosion resistant or protected by fusion bonded epoxy coating for ultimate corrosion resistance.

Valves are available in Flange-Flange end connection. Flange drilling is ANSI B16.1 Class 150 or PN16 EN1092-2. Other Flange end connection or Groove end connection are available upon request.

Technical Data

Approval

UL Listed

FM Approved

Maximum Working pressure

300 PSI (20.87 bar)

Operating temperature

14°F (-10°C) to 230°F (110°C), for optimal performance: refer to figure 1

Nominal Sizes

2" (DN50), 2 1/2" (DN65), 3" (DN80), 4" (DN100), 5" (DN125), 6" (DN150), 8" (DN200), 10" (DN250) and 12" (DN300)

Connections

Flanged Ends

ANSI B16.1 Class 150

EN1092-2 PN16

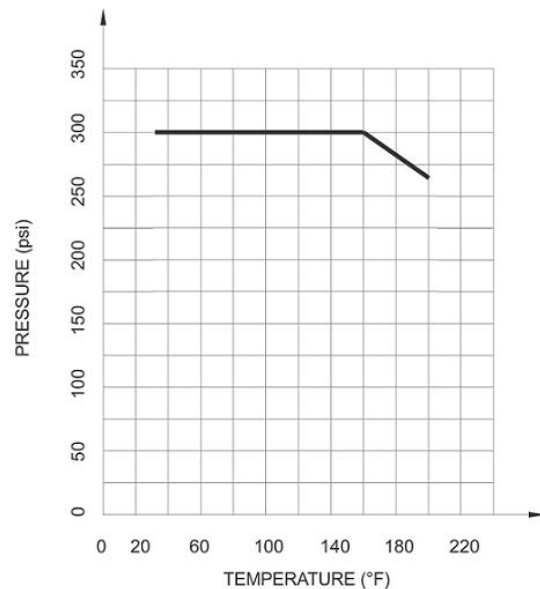
Finish

Fusion bond epoxy coated

Pressure-Temperature Performance

See figure 1

Figure 1 Operating pressure-temperature chart



Components

See material list and figure 2

Figure 2 Swing check valve components

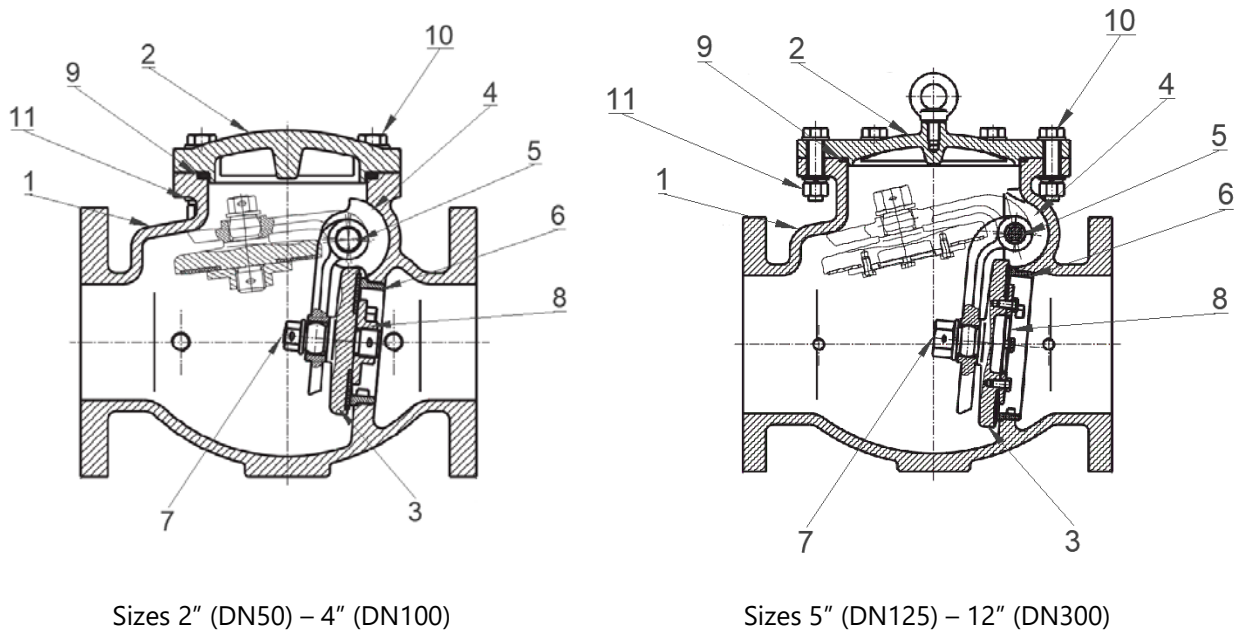
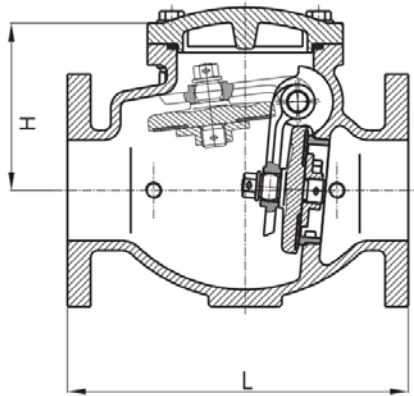


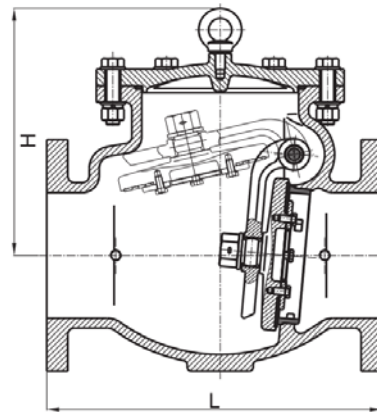
Table 1 Material list

No	Description	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Cover	Ductile Iron	ASTM A536 65-45-12
3	Disc	Ductile Iron	ASTM A536 65-45-12
4	Hinge	Ductile Iron	ASTM A536 65-45-12
5	Hinge Pin	Stainless Steel	AISI 304
6	Seat	Bronze	ASTM B62
7	Stud	Stainless Steel	AISI 304
8	Disc Retainer Washer	Bronze	ASTM B62
9	Gasket	EPDM	Commercial
10	Bolt	Carbon Steel	ASTM A536 65-45-12
11	Nut	Carbon Steel	ASTM A536 65-45-12

Figure 3 Swing check valve dimensions



Sizes 2" (DN50) – 4" (DN100)



Sizes 5" (DN125) – 12" (DN300)

Table 2 Dimensions

SIZE	Unit	2"	2 ½"	3	4	5	6	8	10	12
		50	65	80	100	125	150	200	250	300
L	inch	8.00	10.00	11.00	13.00	14.00	16.00	19.50	22.00	26.00
	mm	203	254	279	330	356	406	495	559	660
H	inch	4.80	5.23	5.37	6.40	11.65	11.75	14.06	16.14	18.31
	mm	122	133	136.5	162.5	296	298.5	357	410	463

Table 3 Part Number and ordering information

Nominal Sizes	Part Number	
	Flange-Flange ANSI Class 150	Flange-Flange EN1092-2 PN16
2" (DN50)	CV01-300FF50	CV01-16FF50
2 ½" (DN65)	CV01-300FF65	CV01-16FF65
3" (DN80)	CV01-300FF80	CV01-16FF80
4" (DN100)	CV01-300FF100	CV01-16FF100
5" (DN125)	CV01-300FF125	CV01-16FF125
6" (DN150)	CV01-300FF150	CV01-16FF150
8" (DN200)	CV01-300FF200	CV01-16FF200
10" (DN250)	CV01-300FF250	CV01-16FF250
12" (DN300)	CV01-300FF300	CV01-16FF300

Installation

1. The valves should be considered to be located in order to allow access for operation, adjustment and maintenance.
2. Ensure the operating pressure of the valve accordance to the system pressure.
3. Valves shall be installed on adequate support and all joining pipe work shall be supported to avoid the imposition of pipeline strains on the valve, which would decrease its performance or damage the valve. Heavy valves may need independent support or anchorage.
4. Handling valves carefully, ensure the environment temperatures is in operating temperature of the valves.
5. Visual inspection of the valves should be perform through the end ports to avoid any dirt.
6. Examine both flanges (valve and pipe) for correct gasket material, operating pressure/temperature, contact face and surface finish.
7. Valves may be installed in horizontal pipe work or in vertical pipe work if the flow is in an upwards direction.
8. Fix all potential cause of leakage, prior to final installation of the valve.

Maintenance

1. Valve should be at zero pressure and ambient temperature while performing any maintenance.
2. In the event of gland leakage, each gland nut should be tightened diametrically and evenly until the leakage stops. Replace the gland if it is required.

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