# Cast Steel Swing Check Valve Features V V®

Check Valves permit flow in one direction only and close automatically when flow reverses. They are entirely automatic in action, depending upon pressure and velocity of flow within the line to perform their functions of opening and closing.

The disc and any associated moving parts may be in a constant state of movement if the velocity pressure is not sufficient to hold the disc in a wide open and stable position. Premature wear and noisy operation or vibration can be avoided by selecting the size of the check valve on the basis of flow conditions rather than selecting the check valve according to the size of the pipeline.

Sizing check valves on this basis may often result in the use of valves that are smaller than the pipe in which they are used, necessitating the use of reducers for installation. The pressure drop will be no greater than that of a larger valve that is partially open. Valve life will be greatly extended, and the added bonus, of course, is the lower cost of the smaller valves.

**Swing Check Valves with** straight through body design and wide hinge support provide turbulence-free flow and accurate seating. There is no tendency for seating surfaces to gall or score because the disc meets the flat seat squarely without rubbing.

When faster reaction to flow reversal is necessary, certain valves can be equipped with an outside lever and weight. This will assist the disc to close more rapidly and reduce the possibility of surge and shock.

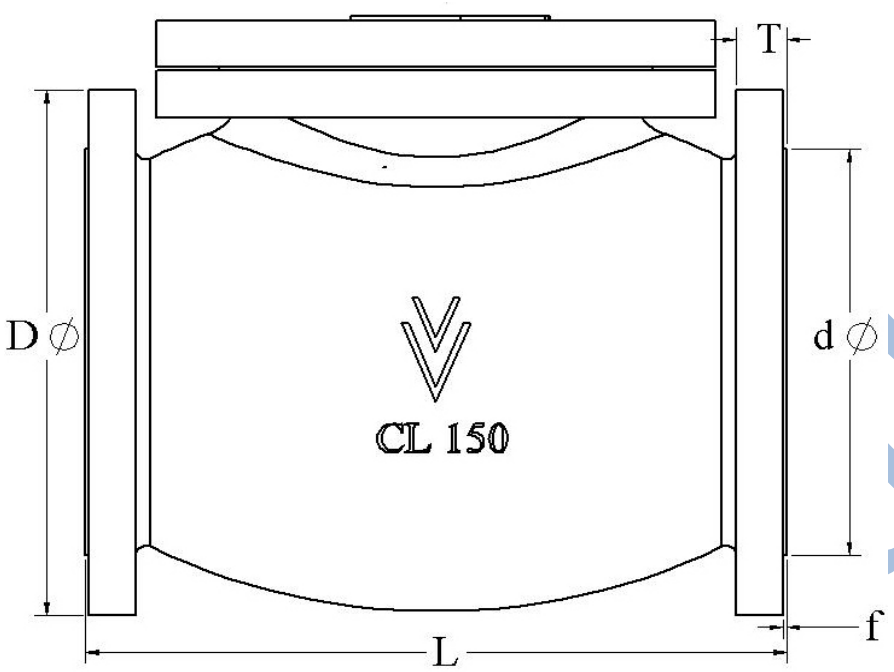
Flanged Swing Check Valves conform to ANSI B 16.5 CL-150 in sizes 1 ½" through 8".

**Swing Check Valve May be Installed** in horizontal or vertical pipelines. In vertical lines, or any angle from horizontal, they can be used for upward flow only.

**Figure No. 5051**

V V®

# Flanged Ends • BS 1868 • A-216 Gr. WCB




Body Test Pressure : 425 psig Hyd.
Seat Test Pressure : 300 psig Hyd.

**Features**

- Design prohibits galling or scoring of seating because the disc meets the flat seat securely on closing with no rubbing action
- M.S Hinges
- Replacable M.S Hinge Pins
- Large Bolted on cover
- Flanges as per ANSI B 16.5 CL-150
- Bolted Bonnet
- Size Range : 1 ½”- 8”
- Packing Graphite Asbestos
- Gaskets Compressed Asbestos Fiber

## Dimensions

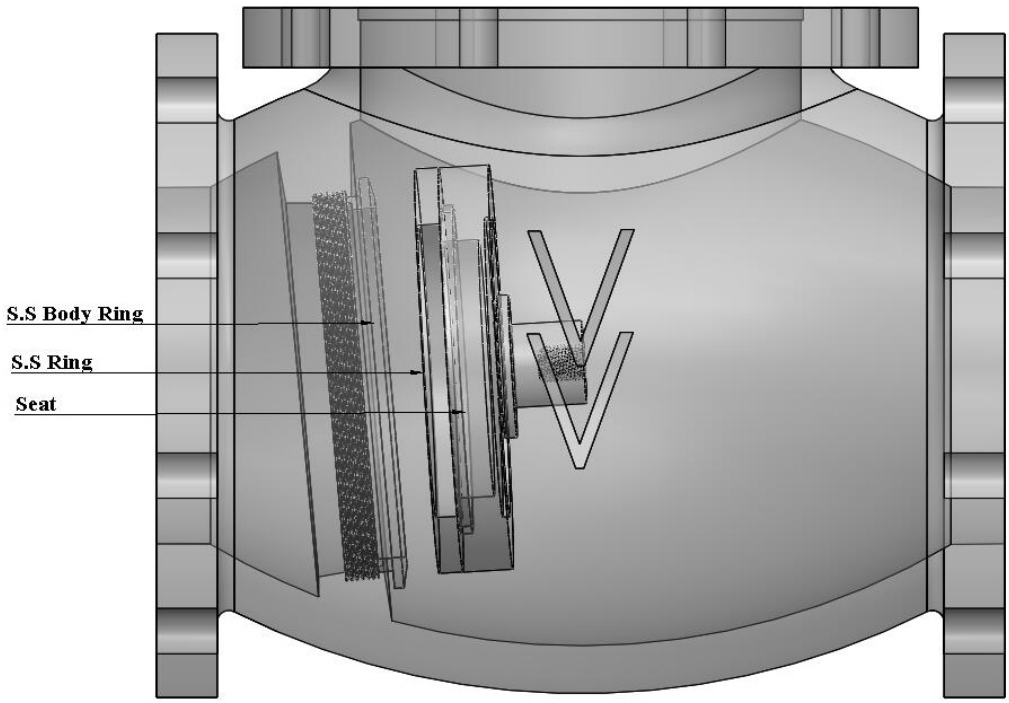
| Nominal Size | | Flange TO Flange L | | D Ø( Dia.) | | Raised Face Dia. d Ø | | H Appx. | T (Thickness) | |
|---|---|---|---|---|---|---|---|---|---|---|
| **inch.** | **mm** | **inch.** | **mm** | **inch.** | **mm** | **inch.** | **mm** | **mm** | **inch** | **mm** |
| 1 | 25 | 5 ¼ | 135 | 4 ¼ | 110 | 2 7/8 | 73 | 90 | 7/16 | 13 |
| 1 ¼ | 32 | 6 3/8 | 162 | 4 5/8 | 122 | 3 5/8 | 92 | 100 | ½ | 17 |
| 1 ½ | 40 | 6 ½ | 165 | 5 | 127 | 4 1/8 | 105 | 100 | 9/16 | 14.3 |
| 2 | 50 | 8 | 203 | 6 | 152 | 5 | 127 | 105 | 5/8 | 15.9 |
| 2 ½ | 65 | 8 ½ | 216 | 7 | 178 | 6 3/16 | 158 | 115 | 11/16 | 17.5 |
| 3 | 80 | 9 ½ | 241 | 7 ½ | 190 | 7 5/16 | 186 | 130 | ¾ | 19.0 |
| 4 | 100 | 11 ½ | 292 | 9 | 229 | 8 ½ | 215 | 150 | 15/16 | 23.8 |
| 5 | 125 | 13 | 330 | 10 | 254 | 2 7/8 | 73 | 185 | 15/16 | 23.8 |
| 6 | 150 | 14 | 356 | 11 | 279 | 3 5/8 | 92 | 195 | 1 | 25.4 |

1. 1/16 inch Raised Face is regularly furnished on CL 150 unless otherwise specified.
2. The height of raised face is included in minimum flange thickness for CL 150.

**Figure No. 5051**

V V®

# Class 150 • Bolted Cover • Flanged Ends





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