

Tideflex® Series 35-1 Flanged Duckbill Check Valve



- Eccentric flat-bottom design
- Integral flange
- Lightweight, all-elastomer design
- Shorter length in sizes 42" and larger

The Tideflex® Series 35-1 Check Valve features a flat-bottom design and an integral elastomer flange, which allows mounting to flanged outfall pipes or directly to headwalls with flush piping.

The flange size drilling conforms to ASME B16.10 Class 150, or can be constructed with DIN 2632 and other standards. The Series 35-1 Check Valve is furnished complete with retaining rings for installation.

The Series 35-1 is often a replacement for flanged flapgates. Hinge pins in flapgates rust and corrode if they are not routinely lubricated, causing the flapper to hang open and allow backflow. Small debris that collects in the seating area of the valve will also keep the flapper open. The Series 35-1 has no moving parts that can corrode, warp or freeze. The 35-1 also seals around entrapped solids and debris.

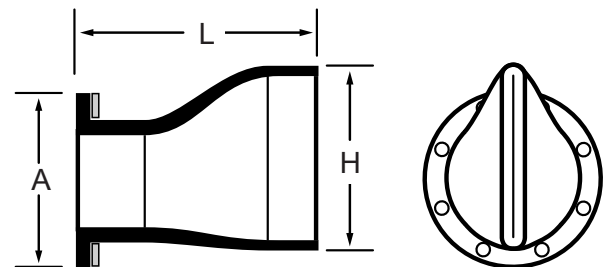
Tideflex® Series 35-1 Valves in sizes 18" and larger are constructed with a curved bill as standard. Contact Red Valve for Series 35-1 backpressure ratings.

Materials of Construction

- **Elastomers:** Natural Rubber (NR), Ethylene Propylene Diene Terpolymer (EPDM), Acrylonitrile-Butadiene (NBR), Fluoroelastomer (FKM), Chloroprene (CR), Chlorosulfonated Polyethylene (CSM), Chloro-Isobutylene Isoprene (CIIR)
*EPDM is NSF/ANSI 61 Certified
- **Retaining Rings:** 316 Stainless Steel, special alloys available

Series 35-1

| ASME FLANGE SIZE | DIMENSIONS in/mm | | |
|------------------------|---------------------|-------------|---------------------|
| | FLANGE O.D. A | LENGTH L | BILL HEIGHT H |
| 4" | 9.00 | 10.00 | 8.00 |
| 100mm | 229 | 254 | 203 |
| 5" | 10.00 | 10.00 | 8.00 |
| 125mm | 254 | 254 | 203 |
| 6" | 11.00 | 16.00 | 12.00 |
| 150mm | 279 | 406 | 305 |
| 8" | 13.50 | 18.00 | 16.00 |
| 200mm | 343 | 457 | 406 |
| 10" | 16.00 | 23.00 | 19.00 |
| 250mm | 406 | 584 | 483 |
| 12" | 19.00 | 28.00 | 23.00 |
| 300mm | 483 | 711 | 584 |
| 14" | 21.00 | 30.00 | 27.00 |
| 350mm | 533 | 762 | 686 |
| 16" | 23.50 | 35.00 | 30.00 |
| 400mm | 597 | 889 | 762 |
| 18" | 25.00 | 40.00 | 34.00 |
| 450mm | 635 | 1016 | 864 |
| 20" | 27.50 | 48.00 | 37.00 |
| 500mm | 699 | 1219 | 946 |
| 24" | 32.00 | 52.00 | 44.00 |
| 600mm | 813 | 1321 | 1118 |
| 30" | 38.75 | 62.00 | 55.00 |
| 750mm | 984 | 1575 | 1397 |
| 32" | 41.75 | 66.00 | 59.00 |
| 800mm | 1060 | 1676 | 1499 |
| 36" | 46.00 | 72.00 | 70.00 |
| 900mm | 1168 | 1829 | 1778 |
| 42" | 53.00 | 69.00 | 73.00 |
| 1050mm | 1346 | 1753 | 1854 |
| 48" | 59.50 | 75.00 | 81.00 |
| 1200mm | 1511 | 1905 | 2057 |
| 54" | 66.25 | 79.00 | 90.00 |
| 1350mm | 1683 | 2007 | 2286 |
| 60" | 73.00 | 82.00 | 94.00 |
| 1500mm | 1854 | 2083 | 2388 |
| 72" | 86.50 | 95.00 | 120.00 |
| 1800mm | 2197 | 2413 | 3048 |



Dimensions are subject to change due to customized construction.