

Tideflex® Series 33 and Series 39 In-Line Check Valve



- All-elastomer check sleeve, virtually maintenance-free design
- No hinges or seals to bind
- Resists abrasion and prevents backflow
- Mounting in any orientation
- Closes on entrapped solids

The Tideflex® Series 33 and 39 In-Line Check Valves are designed to handle abrasive materials, sewage, sludge and other difficult slurries. The valves are silent and non-slamming when they operate.

At the heart of the Series 33 and 39 are fabric-reinforced elastomer check sleeves that provide through-flow at minimum pressure drop across the valve at all times. The Series 33 and 39 In-Line Check Valves come with a clean-out port and two flush ports. They also have a cast iron body, which is available with special coatings.

The valve's face-to-face dimensions meet ASME B16.10 specifications. Specify line pressure and backpressure on order.

Materials of Construction

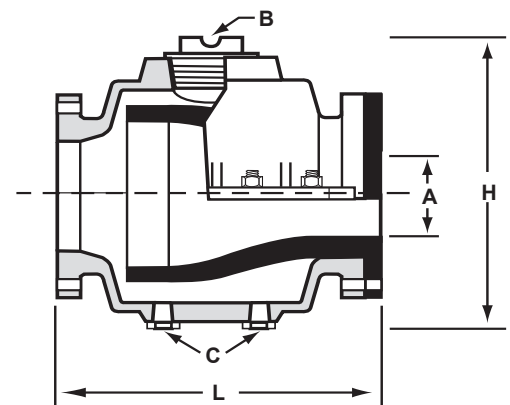
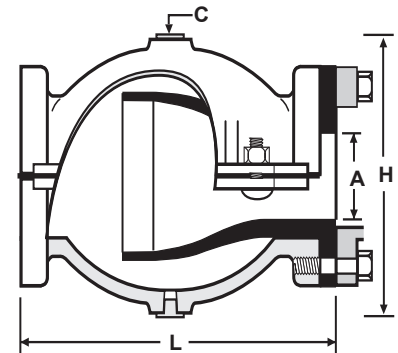
- **Body:** Cast iron ASTM A126
- **Sleeves:** Natural Rubber (NR), Ethylene Propylene Diene Terpolymer (EPDM)*, Acrylonitrile-Butadiene (NBR), Fluoroelastomer (FKM), Chloroprene (CR), Chlorosulfonated Polyethylene (CSM), Chloro-Isobutylene-Isoprene (CIIR), NSF/ANSI/CAN 61 and NSF/ANSI/CAN 372 certified EPDM
- **Drilled and tapped flanges:** ASME 125/150
- Epoxy coating or rubber-lined body available

Series 33

| VALVE SIZE A | DIMENSIONS in/mm | | | MAXIMUM BACKPRESSURE psi/kPa |
|-----------------|---------------------|---------------------|-----------------------|---------------------------------|
| | MAXIMUM LENGTH L | MAXIMUM HEIGHT H | FLUSH CONNECTION C | |
| 1" 25mm | 4.50 114 | 4.25 108 | 0.50 13 | 150 1030 |
| 1.5" 40mm | 6.50 165 | 5.00 127 | 0.50 13 | 150 1030 |
| 2" 50mm | 8.50 216 | 6.50 165 | 0.50 13 | 150 1030 |
| 2.5" 65mm | 9.50 241 | 7.00 178 | 0.50 13 | 150 1030 |
| 3" 80mm | 11.25 286 | 8.00 203 | 0.50 13 | 100 690 |

Series 39

| VALVE SIZE A | DIMENSIONS in/mm | | | | MAXIMUM BACKPRESSURE psi/kPa* |
|-----------------|---------------------|---------------------|------------------------------|------------------------|----------------------------------|
| | MAXIMUM LENGTH L | MAXIMUM HEIGHT H | CLEAN OUT PLUG DIAMETER B | FLUSH CONNECTIONS C | |
| 4" 100mm | 11.50 292 | 10.75 273 | 2.00 51 | 1.00 -1.00 25 - 25 | 75 520 |
| 6" 150mm | 14.00 356 | 14.00 356 | 4.00 102 | 1.00 -1.00 25 - 25 | 75 520 |
| 8" 200mm | 19.50 419 | 17.25 438 | 4.00 102 | 2.00 -1.00 51 - 25 | 60 410 |
| 10" 250mm | 24.50 622 | 22.75 578 | 4.00 102 | 2.00 -1.00 51 - 25 | 45 310 |
| 12" 300mm | 27.50 699 | 24.75 629 | 4.00 102 | 2.00 -1.00 51 - 25 | 35 240 |
| 14" 350mm | 31.00 787 | 27.75 705 | 4.00 102 | 2.00 -1.00 51 - 25 | 25 170 |
| 16" 400mm | 34.00 864 | 31.25 794 | 4.00 102 | 2.00 -1.00 51 - 25 | 20 140 |
| 18" 450mm | 38.50 978 | 35.00 889 | 6.00 Flanged 152 Flanged | 2.00 -1.00 51 - 25 | 15 100 |
| 20" 500mm | 40.00 1016 | 42.75 1086 | 6.00 Flanged 152 Flanged | 2.00 -1.00 51 - 25 | 10 70 |
| 24" 600mm | 51.00 1295 | 45.50 1156 | 6.00 Flanged 152 Flanged | 2.00 -1.00 51 - 25 | 10 70 |



* For higher backpressure, see Saddle Support Cut Sheet RV09.01-13.