

# Tideflex® Series TF-1 Duckbill Check Valve



- Ideal for manhole installations
- Lightweight, all-elastomer design
- Seals around entrapped solids
- Cost-effective, virtually maintenance-free design

The Tideflex® Series TF-1 Duckbill Check Valve design provides excellent backflow prevention. The TF-1 offers very low head loss and a low cracking pressure to eliminate standing water. The valve's all-elastomer fabrication means it will not warp or freeze and is not affected by rust, corrosion or lack of lubrication. It requires virtually no maintenance or repairs and provides a long operational lifespan.

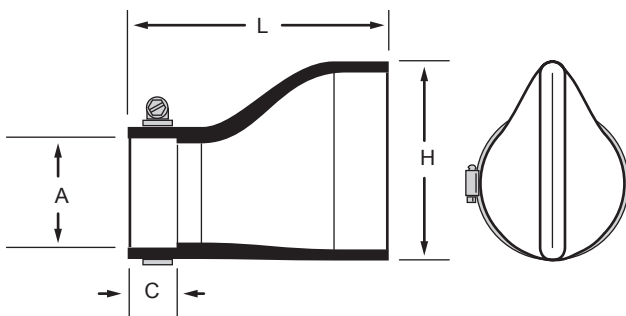
## Materials of Construction

- **Elastomers:** Natural Rubber (NR), Ethylene Propylene Diene Terpolymer (EPDM), Acrylonitrile-Butadiene (NBR), Fluoroelastomer (FKM), Chloroprene (CR), Chlorosulfonated Polyethylene (CSM), Chloro-Isobutylene-Isoprene (CIIR), NSF/ANSI/CAN 61 and NSF/ANSI/CAN 372 certified EPDM
- **Mounting Clamps:** 316 Stainless Steel, special alloys available

The Series TF-1 Check Valve operates using line pressure and backpressure to open and close without an additional energy source. Sliding, rotating, swinging and plunging parts are completely eliminated.

A flat-bottom and offset bill design simplifies installation. No modifications to the structure are needed. The flat-bottom design is ideal for installation in existing structures such as interceptors, manholes and vaults, where the invert of the pipe is as close to the floor of the vault as possible, to maximize head pressure from gravity.

The Series TF-1 Check Valve is ideal for sewer systems. The valve seals around small debris with less than one psi of backpressure. TF-1 Check Valves 18" and larger are constructed with a curved bill as standard. The curved bill returns to a closed position every time, allowing for a tighter seal in backflow applications. Contact Red Valve for Series TF-1 backpressure ratings.



Series TF-1

PIPE O.D. A	DIMENSIONS in/mm		
	MAXIMUM LENGTH L	BILL HEIGHT H	CUFF LENGTH C
4"	11.00	8.00	1.50
100mm	279	203	38
5"	11.00	8.00	1.50
125mm	279	203	38
6"	16.00	12.00	2.00
150mm	406	305	51
8"	18.00	16.00	2.00
200mm	457	406	51
10"	23.00	19.00	3.00
250mm	584	483	76
12"	29.00	23.00	4.25
300mm	737	584	108
14"	28.00	27.00	4.00
350mm	711	686	102
16"	36.00	30.00	5.00
400mm	914	762	127
18"	38.00	34.00	6.00
450mm	965	864	152
20"	45.00	37.00	8.50
500mm	1143	940	216
22"	45.00	37.00	8.50
550mm	1143	940	216
24"	49.00	44.00	8.00
600mm	1245	1118	203
26"	49.00	44.00	8.00
650mm	1245	1118	203
28"	49.00	44.00	8.00
700mm	1245	1118	203
30"	57.00	56.00	9.00
750mm	1448	1422	229

PIPE O.D. A	DIMENSIONS in/mm		
	MAXIMUM LENGTH L	BILL HEIGHT H	CUFF LENGTH C
32"	61.00	60.00	10.00
800mm	1549	1524	254
36"	67.00	70.00	11.00
900mm	1702	1778	279
38"	67.00	70.00	11.00
950mm	1702	1778	279
40"	67.00	70.00	11.00
1000mm	1702	1778	279
42"	66.00	74.00	10.00
1050mm	1676	1880	254
44"	66.00	74.00	10.00
1100mm	1676	1880	254
48"	71.00	81.00	10.00
1200mm	1803	2057	254
50"	71.00	81.00	10.00
1250mm	1803	2057	254
54"	77.00	90.00	11.50
1350mm	1956	2286	292
58"	77.00	90.00	11.50
1450mm	1956	2286	292
60"	78.00	94.00	14.00
1500mm	1981	2388	356
68"	78.00	94.00	14.00
1700mm	1981	2388	356
72"	102.00	121.00	16.00
1800mm	2591	3073	406
90"	111.00	145.00	16.00
2300mm	2819	3683	406
100"	114.00	169.00	16.00
2500mm	2896	4293	406