

# Tideflex<sup>®</sup> Series 35 Flanged Duckbill Check Valve



- 100% elastomer construction
- Will not rust or corrode
- Will not warp or freeze open or shut
- Custom-built to customer specifications
- Low cracking pressure, low head loss
- Eliminates backflow

The Tideflex<sup>®</sup> Series 35 Flanged Check Valve is manufactured identically to the Series TF-2 Check Valve, with the addition of an integral elastomer flange. The standard flange size drilling conforms to ASME 16.5 and 16.47 Class 150 standards. All other domestic and international standards, as well as customer specified flange dimensions, are available. The Series 35 is furnished with 3/8" thick steel back-up rings for installation.

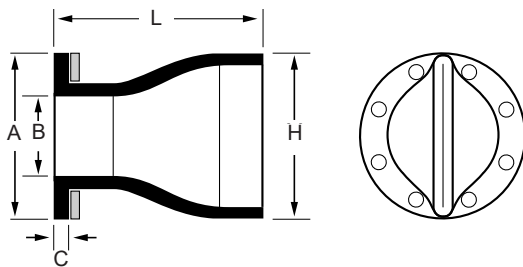
In some applications, a slip-over pipe check valve is not feasible because of an existing flange in the piping system or an existing flange cemented in the outfall piping system vault. In these cases, the Series 35 Check Valve is the solution.

The Series 35 is simple in design with only one part, the all-elastomer duckbill check valve. There are no seats or interference fits to corrode or freeze valve operation, making the Series 35 virtually maintenance free. The Series 35 seals completely around solids, making it ideal for fly ash, raw sewage, sludge, lime, mining slurries and many other abrasive and corrosive slurries.

Contact Red Valve for Series 35 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

ASME FLANGE SIZE	DIMENSIONS in/mm				
	FLANGE O.D. A	INSIDE DIAMETER B	FLANGE THICKNESS C	MAXIMUM LENGTH L	MAXIMUM HEIGHT H
0.5" 15mm	3.50 89	0.50 13	0.50 13	2.50 64	1.25 32
0.75" 20mm	3.88 99	0.75 19	0.50 13	3.00 76	1.50 38
1" 25mm	4.25 108	1.00 25	0.50 13	3.00 76	1.50 38
1.25" 32mm	4.63 118	1.25 32	0.50 13	5.75 146	2.75 70
1.5" 40mm	5.00 127	1.50 38	0.50 13	5.75 146	3.63 92
2" 50mm	6.00 152	2.00 51	0.50 13	5.75 146	3.63 92
2.5" 65mm	7.00 178	2.50 64	0.50 13	7.50 191	4.63 118
3" 80mm	7.50 191	3.00 76	0.75 19	9.00 229	5.38 137
4" 100mm	9.00 229	4.00 102	0.75 19	12.00 305	7.00 178
5" 125mm	10.00 254	5.00 127	0.75 19	15.25 387	8.88 226
6" 150mm	11.00 279	6.00 152	1.00 25	15.63 397	10.38 264
8" 200mm	13.50 343	8.00 203	1.00 25	16.50 419	13.00 330
10" 250mm	16.00 406	10.00 254	1.00 25	21.50 546	16.88 429
12" 300mm	19.00 483	12.00 305	1.00 25	26.50 673	20.13 511

ASME FLANGE SIZE	DIMENSIONS in/mm				
	FLANGE O.D. A	INSIDE DIAMETER B	FLANGE THICKNESS C	MAXIMUM LENGTH L	MAXIMUM HEIGHT H
14" 350mm	21.00 533	14.00 356	1.00 25	25.38 645	21.50 546
16" 400mm	23.50 597	15.25 387	1.00 25	27.50 699	22.25 565
18" 450mm	25.00 635	17.50 445	1.50 38	30.00 762	26.75 679
20" 500mm	27.50 699	19.25 489	1.50 38	32.38 822	32.50 826
22" 550mm	29.50 749	21.25 540	1.50 38	35.50 902	32.50 826
24" 600mm	32.00 813	24.00 610	1.50 38	40.50 1029	37.00 940
30" 750mm	38.75 984	29.50 749	1.50 38	43.00 1092	49.50 1257
32" 800mm	41.75 1060	32.00 813	1.50 38	51.38 1305	46.00 1168
36" 900mm	46.00 1168	35.25 895	1.50 38	54.00 1372	58.00 1473
42" 1050mm	53.00 1346	42.00 1067	2.00 51	60.25 1530	72.50 1842
48" 1200mm	59.50 1511	48.00 1219	2.00 51	59.00 1499	77.50 1969
60" 1500mm	73.00 1854	60.00 1524	2.00 51	72.00 1829	96.75 2457
72" 1800mm	86.50 2197	72.00 1829	2.00 51	95.00 2413	102.00 2591
84" 2100mm	99.75 2534	84.00 2134	2.00 51	92.00 2337	110.50 2807