

Tideflex® Series 37 In-Line Flanged Check Valve



- Installs between pipe flanges, eliminating valve body
- Minimal face-to-face dimension, only the thickness of the flange
- Virtually maintenance-free, one-piece elastomer design
- Eliminates chatter, silent, non-slamming
- Closes on entrapped solids

The Tideflex® Series 37 In-Line Flanged Check Valve is a simple, reliable and cost-effective solution to backflow problems. Designed to be installed between two mating flanges, the Series 37 eliminates the need for a valve body. There is only one moving part, making the elastomer check valve virtually maintenance-free. Sliding, rotating, swinging and spring parts are eliminated. There are no seats to corrode or packing to maintain. In addition, the Series 37 is a passive design, requiring no external source of air or electricity to operate, resulting in reduced operating costs.

The Series 37 In-Line Flanged Check Valve can be ordered in a variety of elastomers. Flanges conform to ASME B16.1 Class 125 specifications. Special custom designs or metric flanged models are also available. Specify line pressure and backpressure on order.

The pressure drop (head loss) of the Series 37 is higher than the Series TF-1, TF-2, 35, 35-1, 39 and 39F because the 37 has a reduced discharge cross-sectional area. The 37's bill is shaped like a wedge to allow it to be installed inside of a pipe. The pressure drop (head loss) is increased because the 37 creates greater flow restriction than the Series TF-1, TF-2, 35, 35-1, 39 and 39F.

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
- **Drilled Flanges:** ASME Class 125 Flanges, DIN PN6, PN10, PN16

Series 37

NOMINAL SIZE* Pipe I.D.	DIMENSIONS in/mm			MAX. BACKPRESSURE psi/kPa**
	LENGTH L	BILL HEIGHT H	FLANGE THICKNESS D	
2"	5.00	1.88	0.38	150
50mm	127	48	10	1030
3"	5.50	2.88	0.38	100
80mm	140	73	10	690
4"	7.00	3.88	0.38	75
100mm	178	99	10	520
6"	11.00	5.88	0.38	75
150mm	279	149	10	520
8"	12.50	7.88	0.50	60
200mm	318	200	13	410
10"	15.50	9.88	0.50	45
250mm	394	251	13	320
12"	18.50	11.88	0.50	35
300mm	470	302	13	240
14"	22.00	13.75	0.63	25
350mm	559	349	16	170
16"	23.00	15.75	0.75	20
400mm	584	400	19	140
18"	24.00	17.75	1.00	15
450mm	610	451	25	100
20"	32.00	19.75	1.00	10
500mm	813	502	25	70
24"	37.00	23.75	1.00	10
600mm	940	603	25	70
30"	41.00	29.75	1.50	8
750mm	1041	756	38	55
36"	47.00	35.75	1.50	8
900mm	1194	908	38	55
42"	49.00	41.50	1.75	5
1050mm	1245	1054	44	30
48"	52.00	47.50	1.75	5
1200mm	1321	1207	44	30
54"	57.00	53.50	2.00	5
1350mm	1448	1359	51	30
60"	64.00	59.50	2.00	5
1500mm	1626	1511	51	30
72"	73.00	71.50	2.00	5
1800mm	1854	1816	51	30

* Larger sizes available; consult factory.

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

