Tideflex® Check Valve



The Waterflex[®] Check Valve: For

High backpressure rating

- Seals drop-tight, eliminating backflow
- No springs, packing or seals
- Lightweight
- Non-slamming
- Low profile, short face-to-face
- Easy to install



Headloss vs. Pipe Velocity WF-2 and WF-3 Styles

Principle of Operation



Forward hydraulic pressure folds the elastomer disk away from the perforated plate, allowing flow.



Reverse pressure seals the elastomer disk against the plate, preventing backflow.

The Waterflex[®] Check Valve is an entirely new valve design from Tideflex[®] Technologies, specifically engineered for potable water applications. The allnew Waterflex[®] provides low headloss characteristics and features high backpressure ratings comparable to other valve styles, such as lever-and-weight or spring-loaded disks.

The Waterflex[®] operates solely on line pressure and backpressure to open and close...no outside energy source is required. As line pressure builds, the 100 percent elastomeric disk is folded away from the perforated plate, allowing water to pass. The "memory" of the rubber will cause the disk to return flat, and backpressure will seal it against the plate to prevent backflow.

The elastomer Waterflex[®] is more cost-effective than other valve styles. Moving parts, such as hinges and springs, can seize if routine maintenance and lubrication are not performed. The Waterflex[®] has no moving parts that require maintenance or repairs, so operational costs are low service life is long.

Reliable Backflow Prevention



Materials of Construction

Body: Carbon steel, stainless steel, ductile iron

Plate: Carbon steel, stainless steel

Elastomer Disk: Hypalon[®], EPDM or NSF-61-approved SBR

WF-1 Check Valve

The Series WF-1 Valve consists of a full-flanged cast iron or fabricated steel body and an integral wafer-style plate that is oversized to significantly reduce headloss. The valve can be installed either within the pipeline or at the end.



Nominal Pipe Size	Length L*	Width W	Pressure Rating psi
4″	17.5″	11″	150
6″	22"	16″	150
8″	25"	19"	150
10"	38″	23.5"	150
12″	42"	25"	150
16″	54″	32″	150
24″	65″	46″	150
30"	72″	59.5"	150
36″	84″	66.25"	150

* Length dimension varies with ductile iron body. Custom lengths available.



Materials of Construction

Plate: Carbon steel, stainless steel, PVC (low pressure only)

Elastomer Disk: Hypalon[®], EPDM or NSF-61-approved SBR

WF-2 and WF-3 Wafer Valve

The standard Waterflex[®], the Series WF-2, consists of a perforated plate that can be installed between two mating flanges. For higher pressure applications and for applications that require installation at the end of a pipeline, the Series WF-3 features an ANSI flanged plate. Both are lightweight and easy to install.

ANSI Flange Size	Plate Thickness	WF-2 Wafer O.D.	WF-3 Flanged O.D.	Pressure Rating psi
4″	0.25″	6.19"	9″	150
6″	0.25"	8.50"	11″	150
8"	0.38"	10.63"	13.5"	150
10"	0.38"	12.75"	16″	150
12"	0.50"	15″	19"	150
16"	0.75"	18.5"	23.5"	150
24"	1.00"	27.25"	32″	150
30"	1.00"	34.5"	38.75"	150
36″	1.00"	41″	46"	150
42"	1.25"	47.75"	53"	150
48"	1.25"	54.25"	59.50"	150

For sizes 54" and larger, contact factory.



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