

Tideflex® Waterflex WF-2 Check Valve



- High backpressure rating
- Drop-tight seal eliminates backflow
- No springs or packing seals
- Lightweight
- Non-slamming
- Low profile, short face-to-face
- No bolt drilling, insert between two mating flanges

Patent No. 76412514

Materials of Construction

- **Waterflex Membrane:** 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
- **Disc:** Carbon steel, 304 Stainless Steel, 316 Stainless Steel, PVC (low pressure only)

The Tideflex® Waterflex WF-2 is a wafer-style check valve designed specifically for water applications. The WF-2 provides very low head loss characteristics, with high backpressure ratings compared to other valve styles such as lever and weight or spring-loaded discs.

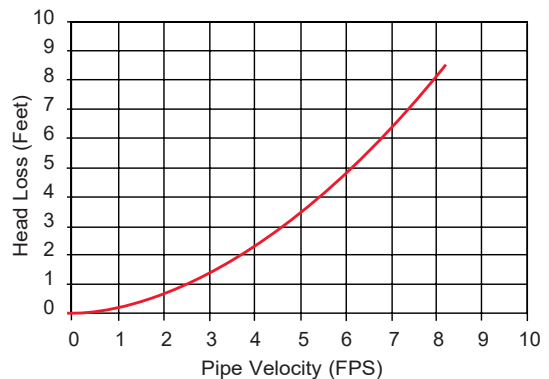
The WF-2 operates solely on line pressure and backpressure to open and close without an additional energy source. As line pressure builds, the 100% elastomer Waterflex Membrane is folded away from the perforated disc, allowing water to pass. The memory of the elastomer membrane will cause it to return flat and backpressure will seal the membrane against the disc to prevent backflow. The WF-2 is designed to be inserted between two mating flanges. Its face-to-face dimension is the smallest available for any check valve.

The Waterflex WF-2 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 WF-2 has no moving parts and requires virtually no maintenance or repairs. Operational costs are low and service life is long.

Waterflex WF-2

NOMINAL PIPE SIZE*	OUTSIDE DIAMETER in/mm	MAX. BACKPRESSURE** psi/kPa
4" 100mm	6.19 157	150 1030
6" 150mm	8.50 216	150 1030
8" 200mm	10.63 270	125 860
10" 250mm	12.75 324	100 690
12" 300mm	15.00 381	75 520
16" 400mm	18.50 470	75 520
24" 600mm	27.25 692	50 350
30" 750mm	34.50 876	50 350
36" 900mm	41.00 1041	50 350
42" 1050mm	47.75 1213	50 350
48" 1200mm	54.25 1378	50 350

Head Loss Versus Pipe Velocity



* For sizes 54" and up, consult factory.
 **Consult factory for higher backpressure.