

Waterflex® WF-3—Full Face Style Check Valve

Features & Benefits

- High Backpressure Rating
- Seals Drop-Tight Eliminating Backflow
- No Springs or Packing Seals
- Light Weight
- Non-slamming
- Low Profile, Short Face to Face

Materials of Construction

- Disc: Carbon Steel, Stainless Steel, PVC (low pressure only)
- Waterflex® Membrane: PGR, Neoprene, Buna-N, Hypalon® and EPDM
- Available as NSF 61 certified with stainless steel disc and EPDM membrane



Patent No. 76412514

Nominal Pipe Size	ANSI Flange Size	Outside Diameter	Back Pressure ANSI Rating psi
4"	4"	9"	150
6"	6"	11"	150
8"	8"	13.5"	125
10"	10"	16"	100
12"	12"	19"	75
14"	14"	21"	75
16"	16"	23.5"	75
18"	18"	25"	75
20"	20"	27.5"	75
24"	24"	32"	50
30"	30"	38.75"	50
36"	36"	46"	50
42"	42"	53"	50
48"	48"	59.50"	50

Consult factory for higher larger sizes and working pressure.

The wafer-style Series WF-3 is an entirely new check valve design specifically engineered for water applications. The all-new WF-3 provides very low headloss characteristics, with high backpressure ratings comparable to other valve styles such as lever and weight or spring-loaded disks.

The WF-3 operates solely on line pressure and back pressure to open and close...no outside energy source is required. As line pressure builds, the 100% elastomeric disc 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 the disk against the plate to prevent backflow. The WF-3 features a full-face flange and ANSI bolt drilling to mate between two pipe flanges.

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 is not performed. The WF-3 has no moving parts that require maintenance or repairs, so operational costs are low and service life is long. The WF-3 also eliminates the need for machined metal parts, further keeping costs down.

Headloss vs. Pipe Velocity

