



R-UFP2 300-PSI RESILIENT WEDGE GATE VALVES

Product Specifications

GENERAL CLASSIFICATIONS

- 1.1 Resilient Wedge Gate Valves are approved by Factory Mutual Research Corporation (FM).
- 1.2 Resilient Wedge Gate Valves are listed by Underwriters Laboratories, Inc. (UL). Valves with actuators are not listed.
- 1.3 Resilient Wedge Gate Valves are suitable for potable water applications.
- 1.4 Resilient Wedge Gate Valves are iron body, fully encapsulated resilient wedge type.
- 1.5 Resilient Wedge Gate Valves are manufactured in the U.S.A. at an ISO9001 Certified factory.

SIZES RANGE, WORKING TEMPERATURE, AND WORKING PRESSURE

- 2.1 **Sizes:** 2" to 12".
- 2.2 **Working Temperature:** 33°F minimum to 170°F maximum working temperature.
- 2.3 **Working Pressure:** 300psi for UL and FM.

TYPE OF VALVE

- 3.1 Resilient Wedge Gate Valves are OS&Y stem type.
- 3.2 Resilient Wedge Gate Valves are available to either open left or open right. FM only approves open left.
- 3.3 **Resilient Wedge Gate Valves are offered with the following end connections:**
 - 3.3.1 **Flanged Ends** with flange drilling complying to ASME B16.1 Class 125 (ISO PN10/PN16 drilling optional). Per ANSI/AWWA C111, working pressure above 250psi requires the use of a special gasket rated for the higher pressure.
 - 3.3.2 **Flanged Ends** (3" thru 12") with flange drilling complying to ANSI B16.1 Class 250 (ISO PN25 drilling optional).
 - 3.3.3 **Mechanical Joint Ends** complying with ANSI/AWWA C111/A21.11.
 - 3.3.4 **Slip-on Joint Ends*** (4" thru 12") complete with Mueller Slip-on gasket, complying with ANSI/AWWA C111/A21.11. Fits plain end of classes 150, 200 and 250 cast iron; ductile iron, and classes 150 and 200 cast iron O.D. PVC**.

**Design and dimensions of the joint are manufactured under license of U.S. Pipe and Foundry Company.
**When using DI O.D. PVC pipe, the gaskets supplied by Mueller Co. must be used with this valve connection.*

- 3.3.5 **Radical Compression Joint Ends** (2" thru 8") for I.P. size PVC pipe.

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MATERIAL SPECIFICATIONS

- 4.1 **Gland Flange** – Ductile Iron ASTM A536.
- 4.2 **Handwheel insert** – Brass ASTM B16.
- 4.3 **Stem Pin** – 303 Stainless Steel.
- 4.4 **Disc Nut** – Ductile Iron ASTM A536.
- 4.5 **Encapsulated Disc** – Rubber - EPDM ASTM D2000, Disc - Ductile Iron ASTM A536.
- 4.6 **Guide Cap** – Acetal.
- 4.7 **Collar** – Hot Rolled Steel - ASTM A36.
- 4.8 **Handwheel** – Ductile Iron ASTM A536.
- 4.9 **Stem** – 431 Stainless Steel.
- 4.10 **Bonnet/Yoke** – Ductile Iron ASTM A536.
- 4.11 **Bonnet O-ring** – Rubber - EPDM ASTM D2000.
- 4.12 **Body** – Ductile Iron ASTM A536.
- 4.13 **Gland Nut** – Silicon Bronze ASTM B98.
- 4.14 **Bonnet Bolt** – 316 Stainless Steel ASTM F593.
- 4.15 **Gland Bolt** – 316 Stainless Steel ASTM F593.
- 4.16 **Bonnet Nut** – 316 Stainless Steel ASTM F594.
- 4.17 **O-ring** – Rubber – EPDM ASTM D2000.
- 4.18 **Stem Packing** – Lubricated Flax.
- 4.19 **Coating** – inside and outside of valve fully coated Mueller PRO-GARD® Fusion Bonded Epoxy - coating complies with ANSI/AWWA C550 and valve is certified to ANSI/NSF Standard 61 & 372.

DESIGN FEATURES

- 5.1 **Flow way** – fully unobstructed, oversized flow-way. The sealing mechanism is withdrawn from the flow-way in a full, open position. No pockets in bottom of flow-way to trap sediment or debris. The flow-way will permit passage of full-sized shell cutters.
- 5.2 **Corrosion Resistance** – all inside and outside cast iron surfaces are coated with Mueller PRO-GARD® Epoxy Coating, 10 mils nominal. Mueller PRO-GARD® Epoxy Coating is non-toxic and imparts no taste to water. Valves comply with ANSI/AWWA C550.
- 5.3 **Repacking** – valve can be repacked under pressure in the fully open position.

TEST PRESSURE

- 6.1 The pressure test on each Resilient Wedge Gate Valve meets the requirements of UL 262 and FM 1120/1130.
 - 6.1.1 Each Resilient Wedge Gate Valve is subjected to two pressure tests. The seat test is at the working pressure of UL Listed and FM approved valves. Shell tests are at two times the working pressure.
 - 6.1.2 Pressure tests at the working pressure shall show NO leakage past the seat from either side of the wedge or at the flange joints. Pressure tests at twice the working pressure shall show NO leakage through the metal or flange joints.
 - 6.1.3 Test pressures are as follows: 300psi seat test, 600psi for Shell Test.