

MUELLER® IRON BODY BRONZE MOUNTED SWING CHECK VALVES 2" THROUGH 12" SIZES



1. GENERAL CLASSIFICATION

- 1.1 Mueller Swing Check Valves comply with all applicable parts of ANSI/AWWA C508.
- 1.2 Mueller Swing Check Valves are suitable for non-shock cold water service.
- 1.3 Mueller Swing Check Valves are iron body, bronze mounted.

2. SIZE RANGE AND WORKING PRESSURE

- 2.1 2" through 12".
- 2.2 200 psi working pressure.

3. TYPE OF VALVE

- 3.1 Mueller Swing Check Valves are offered with three designs of disc closure mechanisms:
 - 3.1.1 **Gravity Operated Check Valve** needs no outside or auxiliary forces to close valve except disc weight.
 - 3.1.2 **Lever and Weight Operated Check Valve** has adjustable position weight and lever arm attached to disc assembly for variable closure force.
 - 3.1.3 **Lever and Spring Operated Check Valve** has adjustable tension spring and lever arm attached to disc assembly for variable closure force.
- 3.2 Mueller Swing Check Valves are swing type for vertical or horizontal mounting. Vertical installation may require use of Check Valve with counter balance. Gravity operated valves are for horizontal mounting only.
- 3.3 Mueller Swing Check Valves are offered with flange ends; flange dimensions and drilling comply with ANSI B16.1 Class 125 specifications (optional PN10/PN16 drilling available 4"–12").

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4. MATERIAL SPECIFICATIONS

- 4.1 **Body** – Cast Iron ASTM A126 CL.B
- 4.2 **Cover** – Cast Iron ASTM A126 CL.B
- 4.3 **Gasket** – Rubber ASTM D2000, BK 807
- 4.4 **Cover Bolt** – Zinc Coated Steel A307, Grade B
- 4.5 **Hinge Plug** – Brass ANSI B21
- 4.6 **Test plug** – Malleable Iron A47
- 4.7 **Washer** – Brass ANSI B21
- 4.8 **Spacer** – Brass ANSI B21
- 4.9 **Disc Nut** – Brass ANSI B21
- 4.10 **Disc Stud** – Brass ANSI B21
- 4.11 **Pin** – Stainless Steel ASTM A276, Type 304
- 4.12 **Hinge Pin** – Stainless Steel ASTM A276, Type 304
- 4.13 **Body Seat Ring** – Bronze ANSI B62
- 4.14 **Arm** – Ductile Iron A536 Gr. 65-45-12
- 4.15 **Disc** – Cast Iron ASTM A126 CL.B
- 4.16 **Rubber Faced Disc Parts**
 - 4.16.1 **Disc Seat Bolt** -- Stainless Steel ASTM A276, Type 304
 - 4.16.2 **Disc Seat Ring** -- Rubber ASTM D2000, BK 807
 - 4.16.3 **Seat Holder** -- 2"-6" Cast Iron ASTM A126 CL.B; 8"-12" Cast Iron ASTM A536 Gr. 65-45-12
- 4.17 **Bronze Faced Disc Parts**
 - 4.17.1 **Disc Seat Ring** -- Bronze ANSI B62 [Following parts used on lever type valves only]
- 4.18 **Retaining Plug** -- Brass ANSI B21
- 4.19 **O-ring C** – Rubber ASTM D2000, BK 707
- 4.20 **O-ring B** – Rubber ASTM D2000, BK 707
- 4.21 **Snap Ring** – Stainless Steel
- *4.22 **Weight Bolt and Nut** – Zinc Coated Steel A307 Grade B
- 4.23 **Key** – Stainless Steel ASTM A276 Type 304
- 4.24 **Arm** – Ductile Iron A536 Gr. 65-45-12
- 4.25 **Bolt and Nut** – Zinc Coated Steel A307 Grade B
- 4.26 **Seat Nut** – Brass ANSI B21
- 4.27 **Weight** – Cast Iron ASTM A126 CL.B
- *4.28 **Stud Nut and Nut** – Zinc Coated Steel A307 Grade B
- *4.29 **Arm B** – Zinc Coated Steel A36
- *4.30 **Spring** – Zinc Coated Steel A307 Grade B
- *4.31 **Bolt** – Zinc Coated Steel A307 Grade B

**As applicable*

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5. DESIGN FEATURES

- 5.1 Iron Body with thread attached bronze seat ring.
- 5.2 Clear full opening waterway when disc is in fully open position.
- 5.3 Operating parts accessible through top opening.
- 5.4 Brass bearings support stainless steel hinge pin and pressure sealed with O-rings.
- 5.5 Heavy ductile iron clapper arm.
- 5.6 Weights or spring lever may be used on either side for these types of check valves.
- 5.7 Heavy bronze disc stud is used on all types.
- 5.8 Iron discs for metal seated valves have bronze disc rings threaded into place.
- 5.9 Epoxy coated interior and exterior for corrosion resistance.

6. TEST PRESSURE

- 6.1 The pressure test on each Mueller Swing Check Valve with Rubber Seat, in sizes 2" through 12", exceeds the requirements of ANSI/AWWA C508 for Check Valves in that no leakage is permitted past the seat at twice the rated 200 psi working pressure. *(ANSI/AWWA C508 permits allowable leakage for Check Valves with Metal Seats.)*



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