

# MUELLER® IRON BODY BRONZE MOUNTED SWING CHECK VALVES 14" THROUGH 36" 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 14" through 36" – 150 psi working pressure.

## 3. TYPE OF VALUE

- 3.1 Mueller Swing Check Valves are offered with two designs of disc closure mechanisms:
  - 3.1.1 Lever and Weight Operated Check Valves have adjustable position weight and lever arm attached to disc assembly for variable closure force.
  - 3.1.2 Lever and Spring Operated Check Valves have 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 and horizontal mounting. Vertical installation may require use of Check Valve with counter balance.
- 3.3 Mueller Swing Check Valves are offered with the flange ends; flange dimensions and drilling complying with ANSI B16. Class 125 specifications (optional PN10/PN16 drilling available).

## 4. MATERIAL SPECIFICATIONS

- 4.1 **Body** – Cast Iron ASTM A126 CL.B
- 4.2 **Cover** – Cast Iron ASTM A126 CL.B
- 4.3 **Cover Gasket** – Rubber ASTM D2000 AA 7008
- 4.4 **Cover Bolts and Nuts** – Zinc Coated Steel A307, Grade B
- 4.5 **Test Plug** – Malleable Iron A47
- 4.6 **O-ring** – Rubber ASTM D2000
- 4.7 **Key** – Stainless Steel ASTM A276, Type 304
- 4.8 **Body Seat Ring** – Bronze ANSI B62
- \*4.9 **Weight** – Cast Iron ASTM A126 CL.B
- \*4.10 **Weight Bolt** – Zinc Coated Steel ASTM A307, Grade B
- 4.11 **Rubber-faced Disc**
  - 4.11.1 **Seat Holder Bolt** – Stainless Steel ASTM A276, Type 304
  - 4.11.2 **Seat Holder** – Ductile Iron ASTM A536 Gr. 65-45-12
  - 4.11.3 **Disc Seat Ring** – Rubber ASTM D2000 AA 7008
- 4.12 **Bronzed-faced Disc**
  - 4.12.1 **Disc Seat Ring** – ANSI B62

*\*As applicable*

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*[The following parts are used on 14"–16" valves only]*

- 4.13 **Disc** – Ductile Iron ASTM A536 Gr. 65-45-12
- 4.14 **Arm** – Zinc Coated Steel A307, Grade B
- 4.15 **Hinge Pin** – Stainless Steel ASTM A276, Type 304
- 4.16 **O-ring** – Rubber ASTM D2000
- 4.17 **Snap Ring** – Stainless Steel
- 4.18 **Bushing A** – Bronze ANSI B62
- 4.19 **Bushing B** – Bronze ANSI B62
- 4.20 **End Plate A** – Bronze ANSI B62
- 4.21 **End Plate B** – Ductile Iron ASTM A536 Gr. 65-45-12
- 4.22 **End Plate Bolt** – Zinc Coated Steel ASTM A307, Grade B

*[The following parts are used on 18"–36" valves only]*

- 4.23 **Disc** – Cast Iron ASTM A126, Class B
- 4.24 **Arm** – Ductile Iron ASTM A536 Gr. 65-45-12
- 4.25 **Gasket** – Rubber ASTM D2000
- 4.26 **Disc Bolt** – Stainless Steel ASTM A276, Type 304
- 4.27 **Retaining Plug** – Bronze B21
- 4.28 **Clapper Arm Shaft** – Stainless Steel ASTM A276, Type 304
- 4.29 **Seat Nut** – Bronze B21
- 4.30 **Clapper Arm** – Ductile Iron ASTM A536 Gr. 65-45-12
- \*4.31 **Spring** – Plated Steel
- \*4.32 **Bolt** – Zinc Coated Steel ASTM A307, Grade B
- \*4.33 **Straight Bolt** – Stainless Steel A276, Type 304
- \*4.34 **Bracket** – Cold Rolled Steel A1008
- \*4.35 **Nut** – Zinc Coated Steel ASTM A307, Grade B

*\*As applicable*

## 5. DESIGN FEATURES

- 5.1 Iron body with thread attached bronze seat ring.
- 5.2 Clear full opening waterway when disc is in fully opened position.
- 5.3 Operating parts accessible through top opening.
- 5.4 Brass bearings support hinge pin and pressure sealed with O-rings.
- 5.5 Stainless steel hinge pins.
- 5.6 Ductile iron disc (14"–16") or ductile iron clapper arm and cast iron disc with stainless steel disc bolt (18"–36").
- 5.7 Weight or spring lever may be used on either side for these types of check valves.
- 5.8 Weight or spring operated type Check Valves have clapper arm keyed to hinge pin with stainless steel keys.
- 5.9 Iron discs for metal seated valves have bronze disc rings threaded into place.

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## 6. TEST PRESSURE

- 6.1 The pressure test on each Mueller Swing Check Valve with Rubber Seat, 14" through 36" sizes, exceeds the requirements of ANSI/AWWA C508 for Check Valves in that no leakage is permitted past the seat at twice the rated 150 psi working pressure. (*ANSI/AWWA C508 permits allowable leakage for Check Valves with Metal Seats.*)



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