

MUELLER® IRON BODY BRONZE MOUNTED SWING CHECK VALVES – 14” through 36” sizes

PRODUCT SPECIFICATIONS

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 VALVE

- 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
- [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 A536 Gr. 65-45-12
 - 4.22 End Plate Bolt – Zinc Coated Steel ASTM A307, Grade B

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MAIN OFFICE – Decatur, IL 1-800-423-1323
CANADA – Mueller Canada Inc., Milton Ontario (905) 878-0541
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MUELLER® IRON BODY BRONZE MOUNTED SWING CHECK VALVES – 14” through 36” sizes

PRODUCT SPECIFICATIONS

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

- 4.23 Disc – Cast Iron A126, Class B
- 4.24 Arm – Ductile Iron A536 Br. 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 Arm 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.

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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