

MUELLER® IRON BODY BRONZE MOUNTED SWING CHECK VALVES – 2" through 12" 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 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 for horizontal mounting only.
- 3.3 MUELLER Swing Check Valves are offered with the flange ends; flange dimensions and drilling complying with ANSI B16.1 Class 125 specifications (optional PN10/PN16 drilling available 4"–12").

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

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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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- 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

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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