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

(Continued)
[The following parts are used on 18”–36” valves only]
4.23 Disc – Cast Iron A126, Class B
4.24 Arm – Ductile Iron A536 Gr. 65-45-12
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.