
MATERIAL SPECIFICATION
MS-OR-303 VALVES AND METERS

303.1 SCOPE

This specification governs the quality of valves and meters for use in water distribution systems.

303.2 MATERIALS

The material used in manufacturing valves and meters shall conform to the following requirements:

- a. Gate Valves: AWWA Standard C500 or Federal Specification WW-V-58.
- b. Butterfly Valves: AWWA Standard C504 for Rubber-Seated Butterfly Valves.
- c. Air-Release Valves, Air-Vacuum Relief Valves, Combination Air and Vacuum Relief Valves, Pressure Reducing Valves, and Pressure Relief Valves:

<u>Material</u>	<u>Specification</u>
Cast Iron	ASTM A-48, Class 30, or ASTM A-126, Class B
Bronze	ASTM-B-61, or ASTM B-62, Grade I
Brass	Federal Specification QQ-B-626
Stainless Steel	ASTM A-167, A-276, A-582 Type 302, 303, 304 or 304L
Cast Aluminum	ASTM B-179, C-355 or C-356

- d. Meters: AWWA Standard C-704.

303.3 FITTINGS

ASTM F 405	3-6 inch diameter pipe and fittings
ASTM F 667	8-, 10-, 12-, 15-, 18-, and 24-inch diameter pipe and fittings
ASTM F 894	18- to 120-inch diameter pipe and fittings

AASHTO M 252	3- to 10-inch diameter pipe and fittings
AASHTO M 294	12- to 36-inch diameter pipe and fittings

303.4 PIPE

Corrugated polyethylene pipe shall conform to the requirements of ASTM F 405, ASTM F 667, ASTM F 894, AASHTO M 252, or AASHTO M 294 for the appropriate pipe sizes and fittings.