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SPECIFICATIONS - DETAILED PROVISIONS
Section 15104 - Ball Valves

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**SECTION 15104
BALL VALVES**

PART 1 -GENERAL

1.01 SUMMARY

A. Section Includes. (Metal body ball valves) (and) (plastic body ball valves)

1.02 REFERENCES

A. American Water Works Association (AWWA):

1. C-507 Ball Valves, Shaft or Trunnion Mounted, 6-Inch Through 48-Inch.

1.03 SUBMITTALS

A. Product Data

B. Metal Body Ball Valves: Affidavit of compliance with AWWA C-507.

PART 2 -PRODUCTS

2.01 METAL BODY BALL VALVES

A. Manufacturers: One of the following or equal.

1. Lunkenheimer Company
2. MARPAC, Inc

B. General

1. Type: Non-lubricated, and capable of sealing in either flow direction
2. Conform to AWWA C-507
3. Stem Packing: Manually adjustable while valve is under pressure
4. Temperature Limits: Suitable for operation between minus 20 and 350 degrees Fahrenheit.

C. Materials

1. Valves in copper lines: Bronze body with solder ends.
2. Valves in steel and ductile iron piping: Ductile iron or cast steel bodies, and ends as follows:
 - a) Threaded for sizes 3-inches and smaller
 - b) Flanged for sizes larger than 3-inch
3. Ball: Type 304 or Type 316 stainless steel.
4. Seats: TFE.
5. Stem seals: TFE or Viton.

2.02 PLASTIC BODY BALL VALVES

A. Manufacturers: One of the following or equal:

1. Asahi America
2. Chemtrol Division, NIBCO Inc.

B. General:

1. Type: Non-lubricated and capable of sealing in either flow direction.
2. End connections: True union.
3. Operator handle: Lever

C. Materials:

1. Body: Polyvinyl chloride (PVC)
2. Ball: Polyvinyl chloride (PVC)
3. Seats: TFE (Teflon)
4. O-rings: [FPM (Viton)] (EPDM).

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Follow manufacturer's published instructions.

END OF SECTION 16104