3. Gaskets: 1/16 inch thick, preformed neoprene.

C. Dielectric Connections:

1. Waterways:

a. Water impervious insulation barrier capable of limiting galvanic current to 1 percent of short circuit current in a corresponding bimetallic joint.

b. Dry insulation barrier able to withstand 600-volt breakdown test.

c. Construct of galvanized steel with threaded end connections to match connecting piping.

d. Suitable for the required operating pressures and temperatures.

2. Flanges:

a. Dielectric flanges with same pressure ratings as standard flanges.

b. Water impervious insulation barrier capable of limiting galvanic current to 1 percent of short circuit current in a corresponding bimetallic joint.

c. Dry insulation barrier able to withstand 600-volt breakdown test.

d. Construct of galvanized steel with threaded end connections to match connecting piping.

e. Suitable for the required operating pressures and temperatures.

2.9 GAS COCKS

A. Full port, brass ball valves with bottom-loaded blowout proof stem, virgin PTFE seats, thrust washer and adjustable stem packing gland, stem packing nut, chrome plated breass ball, brass adapter and steel handle.

B. 1/4" to 3/8": 1/2 psig, ASME B16.33.

C. 1/2" to 2": 1/2 psig, ASME B16.33.

2.10 GLOBE VALVES

A. Up To and Including 2 inches.

1. Class: 150

2. Body: ASTM B-62 bronze.

3. Bonnet: ASTM B-62 bronze.

4. Stem: ASTM B-62 bronze.

5. Packing Nut: ASTM B-584 bronze.

6. Packing: Graphite.

7. Disc: Teflon.

8. Disc Nut: ASTM B-62 bronze.

9. Ends: Threaded.

B. Acceptable Manufacturers:

1. Nibco

2. Stockham

3. Milwaukee

2.11 BALL VALVES

A. 3-inch and smaller: 2-piece, full port:

1. Class: 150 psi saturated steam, 600 psi wog.

2. Body: ASTM B-584 Alloy 844 bronze.

3. Body End Piece: ASTM B-584 Alloy 844 bronze.

4. Ball: ASTM B-584 Alloy 844 bronze with hard chrome plate.

5. Seat Ring: Reinforced TFE.

6. Threaded Packing Gland: ASTM B-16 Alloy 360 brass.

7. Stem: 316 stainless steel.

8. Ends: Soldered or Press Fittings.

B. Acceptable Manufacturers:

1. Nibco.

2. Apollo.

3. Stockham.

2.12 ZERO LEAKAGE TRIPLE OFFSET HIGH-PERFORMANCE BUTTERFLY VALVES

A. 2-1/2 inch and larger: Triple offset rotary valve, carbon steel, bi-directional, double flange body (wafer or lug-style not acceptable), zero leakage.

1. Class: ANSI 300.

2. Body: Carbon steel.

3. Disc: Nickel plated carbon steel.

4. Shaft: ASTM A-564 Type 630 (17-4PH) stainless steel.
5. Seat: Welded Stellite GR.21, integral with valve body.
6. Seat Ring: Dublex, stainless steel, laminated, field replaceable.
7. Locator Bearing: ASTM A-743 Grade CG8M Type 317 stainless steel.
8. Thrust Bearing: Type 317 stainless steel with PTFE woven fabric.
9. Packing: Graphite.
10. Packing Gland: ASTM A-743 Grade CF8M Type 316 stainless steel.
11. Disc Pins: ASTM A-276 Type stainless steel.
12. Operator: Self-locking, manual gear operator.
13. Leakage class. Zero leakage as defined by API 598, 7th edition.

B. Acceptable Manufacturers:

1. Tyco Vanessa Series 30,000.
2. Crane Flowseal MS.
3. Adams Valve MAK.

2.13 CHECK VALVES

A. Wafer Check: 2-1/2 inch and larger:

1. Class: 125
2. Body: ASTM A-126 Class B cast iron.
3. Disc: ASTM B-148 aluminum-bronze.
4. Hinge Pin: ASTM A-276 Type 316 stainless steel.
5. Spring: ASTM A-276 Type 316 stainless steel.
6. Seat: Buna-N.
7. Ends: Lug type for installation between pipe flanges.
8. Acceptable Manufacturers:
   a. Stockham
   b. Nibco
   c. Milwaukee

B. Swing Check: 2-Inch and smaller: