

## Material Specification – 36

### FLANGED JOINT ACCESSORIES

**1. GENERAL**

Flanged joint accessories include all-thread studs, nuts, gaskets, insulating sleeves and washers, and steel washers.

**2. ALL-THREAD STUDS AND NUTS**

All-thread studs shall be in accordance with ASTM A 193, Grade B7. Nuts shall be heavy hex in accordance with ASTM A 194, Grade 2H. The studs shall extend through the nuts by 1/4-inch.

**3. GASKETS**

Flange gaskets shall be 1/8-inch thick, unsegmented compressed fiber with a blend of synthetic fibers, fillers, and elastomeric binders suitable for potable water service. Ring gaskets shall be used for non-insulated flange connections. Full-face gaskets shall be used for insulated flange connections.

Approved Manufacturers	Models
Durlon	8600
Garlock	3200
KLINGERSil	C-4324, C-6400
Leader	940

**4. INSULATING SLEEVES AND WASHERS**

Insulating sleeves and washers shall be one-piece when the flange bolt diameter is 1 1/2-inch or smaller and shall be made of acetyl resin or minlon. For flange bolt diameters larger than 1 1/2-inch, insulating sleeves shall be high density polyethylene, minlon, G-10, or acetyl resin and insulating washers shall be acetyl resin, phenolic, or G-10.

**5. STEEL WASHERS**

Steel washers shall be circular, carbon steel in accordance with ASTM F 436.

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