

STANDARD SPECIFICATIONS

SECTION 15162

FLEXIBLE PIPE COUPLINGS AND EXPANSION JOINTS

**PART 1 - GENERAL**

A. Description

This section includes materials and installation of flexible gasketed sleeve-type compression pipe couplings and expansion joints.

B. Related Work Specified Elsewhere

All related work specified elsewhere, or in other codes or standards, will be as last revised, unless a specific date of issuance is called out in opposition to later revision date(s).

Other sections of the technical specifications, not referenced below, shall also apply to the extent required for proper performance of this work.

- 1. Painting and Coating: 09900
- 2. Hydrostatic Testing of Pressure Pipelines: 15042

C. Approved Manufacturers

- 1. Flexible Couplings  
 Dresser Style 153  
 Rockwell Type 431  
 Baker Series 228
- 2. Transition Couplings  
 Dresser Style 62 or 162  
 Rockwell Series 413  
 Baker Series 212 or 240
- 3. Flanged Coupling Adapters  
 Rockwell Type 912  
 Dresser Style 127  
 Baker Series 601 or 604

**PART 2 - MATERIALS**

A. Coupling Sleeve and Flanges

Coupling sleeves and flanges shall be ductile iron.

B. Bolts and Nuts for Flanges

1. Bolts and nuts for buried and submerged flanges, flanges in underground vaults and structures, and flanges located outdoors above ground shall be Type 316 stainless steel conforming to ASTM A 193 (Grade B8M) for bolts and ASTM A 194 (Grade 8M) for nuts.
2. Provide one (1) washer for each nut. Each washer shall be of the same material as the nut.

C. Painting and Coating

All cast components shall be epoxy lined and coated per Section 09900.

**PART 3 - EXECUTION**

A. Installation of Flexible Pipe Couplings

1. Clean oil, scale, rust, and dirt from pipe ends. Clean gaskets in flexible pipe couplings before installing. Install expansion joints per manufacturer's recommendations. Install expansion joints so that 50% of total travel is available for expansion and 50% is available for contraction.
2. Lubricate bolt threads with graphite and oil prior to installation.

B. Field Coating

1. Coat buried flexible pipe couplings, transition couplings, and flanged coupling adapters per Section 09900. Then wrap the couplings with 8-mil polyethylene wrap per AWWA C105.
2. Coat flexible pipe couplings (including joint harness assemblies), transition couplings, and flanged coupling adapters located indoors, in vaults and structures, and above ground with the same coating system as specified for the adjacent pipe. Apply prime coat at factory.

C. Hydrostatic Testing

Hydrostatically test flexible pipe couplings, expansion joints, and expansion compensators in place with the pipe being tested. Test in accordance within Section 15042.

**END OF SECTION**