

PART 1 GENERAL

1.1 REFERENCES

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM A53/A53M-10, Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless.
 - .2 ASTM A105/A105M-10, Specification for Carbon Steel Forgings, for Piping Applications.

1.2 PRODUCT DATA

- .1 Submit product data in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit manufacturer's catalog data, descriptive literature, and assembly drawings. Show manufacturer's model or figure number for each type of coupling or joint for each type of pipe material for which couplings are used.
- .3 Indicate for item(s) as applicable:
 - .1 Manufacturer, model number, materials of construction by specification reference, line contents, pressure and temperature rating.
 - .2 Movement handled; axial, lateral, angular and the amounts of each.
 - .3 Nominal size and dimensions including details of construction and assembly.
- .4 Submit manufacturer's recommended torques to which the coupling bolts shall be tightened.

1.3 CLOSEOUT SUBMITTALS

- .1 Submit maintenance data in accordance with Section 01 78 00 - Closeout Submittals.

1.4 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 – Construction/Demolition Waste Management and Disposal.

PART 2 PRODUCTS

2.1 FLEXIBLE PIPE COUPLING

- .1 Coupling System Design And Component Unit Responsibility
 - .1 Gaskets, bolts, nuts, glands, end rings, and hardware for pipe couplings of all types shall be furnished by the manufacturer of the pipe coupling and shall be designed as an integral system by the pipe coupling manufacturer.
 - .2 Gaskets shall be designed for the coupling and appropriately sized to provide a watertight seal at the design pressure and temperature.

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- .3 Gaskets, bolts, nuts, glands, end rings, and hardware for pipe couplings shall be shipped with the pipe coupling and shall be clearly labeled indicating the origin of the material, including place and date of manufacture.
 - .4 Manufacturer's printed installation instructions shall be packaged with each pipe coupling.
 - .2 Flexible Pipe Couplings For Plain End Ductile Iron Pipe, PVC Pressure Pipe, Or PVC Distribution Pipe
 - .1 Couplings shall be PVC or ductile iron, Dresser Style 153, Smith-Blair Type 441, Baker Series 228, or approved equal.
 - .3 Minimum length to be in accordance with manufacturer's recommendations.
 - .4 Inner hose: PVC corrugated.
 - .5 Diameter and type of end connection: as indicated.
 - .6 Operating conditions:
 - .1 Working pressure: 1034 kPa.
 - .2 Working temperature: 60 oC.
 - .3 To match system requirements.

PART 3 EXECUTION

3.1 INSTALLATION

- .1 Clean oil, grease, scale, and dirt from pipe ends. Repair any damage or holidays in the shop applied coating before installing couplings or adapters. Clean gaskets in flexible pipe couplings, transition couplings, and flanged coupling adapters before installing.
- .2 Clean sleeve bolts and nuts by wire brushing before installing in end rings. Lubricate threads of bolts and nuts with oil or graphite prior to installation. Tighten nuts uniformly and in a progressive diametrically opposite sequence, and torque with a calibrated torque wrench.
- .3 Pressure Testing: Test couplings and adapters at the same time that the connecting pipelines are pressure tested. See Specification Section 33 31 13 for pressure testing requirements. Repair leaks in piping and retest.
- .4 If couplings or adapters leak under pressure testing, loosen or remove the nuts and sleeve bolts, reset or replace the gaskets, reinstall or retighten the bolts and nuts, and retest the coupling or adapter. Couplings and adapters shall be watertight.

3.2 CLEANING

- .1 In accordance with Section 01 74 11 – Cleaning.

END OF SECTION