

SECTION 15078
POLYVINYL CHLORIDE (PVC) PIPING

PART 1 – GENERAL

1.01 SUMMARY

A. Section Includes:

1. Detailed requirements for various PVC piping products.

1.02 SUBMITTALS

A. Shop Drawings:

1. Submit layout for PVC piping systems.

B. Product Data:

1. Submit product data for pipe, fittings, flanges, gaskets, and bolting.
2. Submit proposed gasket material for each service. Submit document confirming gasket material selection is appropriate for fluid carried in system.

PART 2 – PRODUCTS

2.01 PVC MATERIAL

- A. Type 1, Grade 1 conforming to ASTM D1784.

2.02 PIPE

- A. Schedule 80 PVC conforming to ASTM D1785.

2.03 FITTINGS

A. Schedule 80 PVC

1. ASTM D2464 for threaded joint type.
2. ASTM D2467 for socket joint type.

B. Manufacturers

1. Spears
2. George Fischer

2.04 JOINTS

- A. Provide socket type at all locations except unions, valves, and equipment with threaded or flanged end connections.

2.05 FLANGES

- A. PVC, 1-piece socket type, flat faced, conforming to ANSI B16.5 150-lb bolt-hole drilling pattern.

2.06 GASKETS

- A. Full-face, 1/8-in. thick flat type.
- B. When mating flange has raised face, use flat ring gasket and provide filler gasket between outside diameter of raised face and flange outside diameter to protect flange from bolting moment.
- C. Material compatible with fluid carried in system.

2.07 BOLTING

- A. Type 316 Stainless Steel, ASTM A193, Grade B8M hex head bolts and ASTM A194, Grade 8M hex head nuts.
- B. Bolts shall conform to ANSI B.1.20.1.
- C. Provide washers same material as bolts.

2.08 SOLVENT CEMENT

- A. Join socket connections with PVC solvent cement conforming to ASTM D2564.
- B. As recommended by pipe and fitting manufacturer to assure compatibility.

2.09 THREAD LUBRICANT

- A. Teflon tape.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. Install products as shown on Drawings, and as specified in applicable piping system Specification section(s).
- B. Install products in accordance with manufacturer's written instructions.

END OF SECTION