

Materials Specification – 2 for POLYVINYL CHLORIDE (PVC) PRESSURE PIPE Elastomeric Gasket Joint 4-Inch, 6-Inch, 8-Inch, 12-Inch, 16-Inch and 20-Inch Diameter

1. GENERAL:

PVC pipe shall be manufactured in accordance with AWWA C900, AWWA C905 or AWWA C909, as applicable, with the following additional requirements or exceptions.

2. SIZE OF PIPE:

This Specification shall cover PVC pipe in 4-inch, 6-inch, 8-inch, 12-inch, 16-inch and 20-inch nominal diameters with cast iron equivalent outside diameter.

3. JOINT TYPE:

Pipe joints shall be made using an integral bell with an elastomeric gasket push-on type joint.

4. CLASS AND TYPE:

PVC pipe shall be of the dimension ratio (DR) or pressure class listed below:

C900		C905		C909	
Nominal <u>Pipe Size</u>	Dimension <u>Ratio</u>	Nominal <u>Pipe Size</u>	Dimension <u>Ratio</u>	Nominal <u>Pipe Size</u>	Pressure <u>Class</u>
4-inch	14	16-inch	18	4-inch	305
6-inch	18	20-inch	18	6-inch	235
8-inch	18			8-inch	235
12-inch	18			12-inch	235

5. PIPE LENGTH:

Pipe furnished under this Specification shall have a nominal laying length of 20 feet. Random lengths are NOT acceptable.

6. SPECIAL MATERIAL REQUIREMENTS:

PVC pipe that is to be installed in the City and County of Denver and Total Service Contract Areas shall meet the following additional requirements:

- A. The pipe shall be cooled to a maximum of 100°F before the pipe is moved from the assembly line.
- B. Additives and fillers, including but not limited to stabilizers, antioxidants, lubricants, colorants, etc. shall not exceed 10 parts by weight per 100 parts of PVC resin in the compound provided that the CaCO₃ filler content shall not exceed 5.5 parts by weight per 100 parts of PVC resin.

- C. The quality of the pipe shall be tested in accordance with ASTM F 1057.
- D. Amount of CaCO₃ shall be determined in accordance with ASTM D 2584.
- E. The impact resistance of the pipe shall be tested in accordance with CSA Standard B137.0 as modified by CSA Standard B137.3.

7. FUSED JOINT PVC PIPE:

PVC pipe utilizing fused butt-joints may be allowed if approved by Denver Water.

8. CERTIFICATION:

The manufacturer shall furnish a sworn statement that the inspection and all of the specified tests have been completed and that the results comply with the requirements of these Standards. A copy of the Certification, including compliance with ANSI/NSF 61, shall be sent to Denver Water.

9. ACCEPTABLE MANUFACTURERS:

	<u>C900</u>	<u>C905</u>	<u>C909</u>
CertainTeed Corporation	X		
JM Eagle	X	X	X
IPEX	X	X	
Diamond Plastic Corporation	X		
North American Pipe Corporation	X	X	
Vinyltech Corporation	X	X (16-inch only)	

Materials Specification – 2

Polyvinyl Chloride (PVC) Pressure Pipe

*Elastomeric Gasket Joint 4-Inch, 6-Inch, 8-Inch, 12-Inch,
16-Inch and 20-Inch Diameter*