

VINYLTECH AWWA C905-10

TECHNICAL DATA SUBMITTAL



CONFORMANCE

These specifications designate the requirements for manufacturing and installing Vinyltech AWWA C905-10 water transmission pipe.

AWWA C905-10 - Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 14" Through 48" (350mm Through 1,200mm)

AWWA C605 - Underground Installation of Polyvinyl Chloride (PVC) Pressure Pipe and Fittings for Water

ASTM D1784 - Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds

ASTM D3139 - Standard Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals

ASTM F477 - Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe

ASTM D2122 - Standard Method of Determining Dimensions of Thermoplastic Pipe and Fittings

ASTM D2837 - Method for Obtaining Hydrostatic Design Basis for Thermoplastic Pipe Materials

PIPE COMPOUND

The pipe shall be extruded from compounds meeting (PVC1120) the requirements of Cell Classification 12454, as defined in ASTM D1784, Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds. The PVC shall also be listed by the National Sanitation Foundation (NSF) for use in potable water.

PIPE

Vinyltech pipe shall be manufactured in accordance with AWWA C905-10.

GASKET JOINT

The gasket shall be reinforced with a steel band and meet the requirements of ASTM F477. Vinyltech pipe shall have an integral bell end with a locked-in factory installed gasket and shall meet the joint requirements of ASTM D3139.

MARKING

The pipe shall be marked in accordance with AWWA C905-10 as in the following example.

- Manufacturer's name and production codes
- Nominal size, dimension ratio number, and O.D. base (for example, 16" DR 18 CI)
- Materials cell classification (PVC1120)
- AWWA pressure rating (PR 165, or PR 235) and hydrostatic test pressure (T/330, or T/470)
- AWWA designation number (AWWA C905-10)
- Production date code (VAEJ13A 48.34)
- Seal of the testing agency that verified the suitability of the pipe and the material for potable water (NSF/ANSI 61, Annex G)

QUALITY CONTROL

Each length of the pipe including the bell shall be hydrostatically tested in accordance with AWWA C905-10. The pipe shall meet all additional test requirements as described in AWWA C905-10. Our full-time quality assurance staff continually administers a rigid program of tests to maintain the production of the best pipe products available.

INSTALLATION

Recommended installation procedures of Vinyltech Corporation are outlined in AWWA C605, Underground Installation of Polyvinyl Chloride (PVC) Pressure Pipe and Fittings for Water. The AWWA Manual M23, PVC Pipe-Design and Installation, is also an invaluable resource guide for design and installation.

TAPPING

The consistent success of tapping PVC pressure pipe is contingent upon the use of proper procedures and equipment. Tapping should be as recommended in AWWA C605.

ASSEMBLING THE PIPE

Assembly of Vinyltech PVC transmission pipe is easily accomplished. A depth of entry mark is on each spigot end to serve as a visual check for rapid, accurate joint inspection. **Do not over insert.**

- Remove any mud, sand, or other foreign matter from the belled and spigot ends of the pipe. Carefully clean the gasket area.
- With a clean applicator (a brush or hand) lubricate the entire surface of the pipe from the spigot end to the depth of entry mark and the contact surface of the gasket with **Vinyltech Brand Lubricant**.
- Brace the bell to avoid disturbing the already installed joints. Align the pipe, insert the spigot into the bell and push.
- Do not insert past the entry mark line.**



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CERTIFIED TO
NSF/ANSI 61



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C905 DR 25 PRESSURE CLASS 165

NOMINAL SIZE (IN)	(mm)	OUTER DIAMETER (IN)	MINIMUM WALL	FEET PER TRUCK	FEET PER LIFT	APPROXIMATE WEIGHT (LB/100')
14	(350)	15.3	0.612	1440	120	1935
16	(400)	17.4	0.696	1000	40/60	2575
18	(450)	19.5	0.78	1000	40/60	3165
*20	(500)	21.6	0.864	640	80	3900
*24	(600)	25.8	1.032	360	60	5600

C905 DR 21 PRESSURE CLASS 200

NOMINAL SIZE (IN)	(mm)	OUTER DIAMETER (IN)	MINIMUM WALL	FEET PER TRUCK	FEET PER LIFT	APPROXIMATE WEIGHT (LB/100')
14	(350)	15.3	0.729	1440	120	2210
16	(400)	17.4	0.829	1000	40/60	2883
18	(450)	19.5	0.929	1000	40/60	3635
*20	(500)	21.6	1.029	640	80	4468
*24	(600)	25.8	1.229	360	60	6420

C905 DR 18 PRESSURE CLASS 235

NOMINAL SIZE (IN)	(mm)	OUTER DIAMETER (IN)	MINIMUM WALL	FEET PER TRUCK	FEET PER LIFT	APPROXIMATE WEIGHT (LB/100')
14	(350)	15.3	0.85	1440	120	2650
16	(400)	17.4	0.967	1000	40/60	3475
18	(450)	19.5	1.083	1000	40/60	4340
*20	(500)	21.6	1.200	640	80	5350
*24	(600)	25.8	1.433	360	60	7650

C905 DR 14 PRESSURE CLASS 305

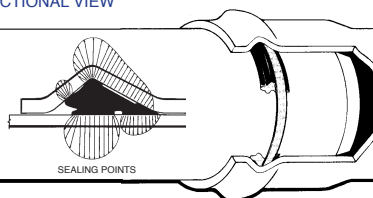
NOMINAL SIZE (IN)	(mm)	OUTER DIAMETER (IN)	MINIMUM WALL	FEET PER TRUCK	FEET PER LIFT	APPROXIMATE WEIGHT (LB/100')
14	(350)	15.3	1.093	1440	120	3300
16	(400)	17.4	1.243	1000	40/60	4450
*18	(450)	19.5	1.393	800	40/60	5341
*20	(500)	21.6	1.543	640	80	6566

*Northern Pipe Products

THE RIEBER SEALING SYSTEM

The Rieber system provides a proven pipe joint with an excellent track record in the field. It is the fastest growing system in the world because of its many advantages.

CROSS SECTIONAL VIEW



- Factory installed, locked-in gasket
- The pipe bell forms over the gasket, making a perfect fit
- Avoids the possibility of installing the wrong gasket
- Reduces installation problems
- The locked-in gasket eliminates gasket roll-out during joining
- The gasket is molded vs. extruded and spliced
- Works equally well under pressure or vacuum
- Three sealing points achieved vs. two
- **LEAK-PROOF JOINTS**
- **“THE WORLDS BEST JOINT”**