

# VINYLTECH PURPLE PIPE

## TECHNICAL DATA SUBMITTAL



PURPLE PIPE

### SCOPE

These specifications designate the dimensional requirements for manufacturing and installing Vinyltech's Vinylguard Purple PVC Pipe for reclaimed water.

**AWWA C900-07** - Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 in. Through 12 in. (100mm Through 300mm), for Water Transmission and Distribution

**AWWA C905-97** - Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 14" Through 48" (350mm Through 1,200mm) for Water Distribution

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

**ASTM D 1784** - Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds

**ASTM D 3139** - Standard Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals

**ASTM F 477** - Standard Specification for Elastomeric Seals (Gaskets ) for Joining Plastic Pipe

**ASTM D 2122** - Standard Method of Determining Dimensions of Thermoplastic Pipe and Fittings

**ASTM D 2837** - 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 D 1784, *Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds*.

### PIPE

Vinyltech pipe shall be manufactured in accordance with the dimensional standards of AWWA C905 or AWWA C900.

### GASKET JOINT

The gasket shall be reinforced with a steel band and meet the requirements of ASTM F 477. Vinyltech pipe shall have an integral bell end with a locked-in factory installed gasket and shall meet the joint requirements of ASTM D 3139.

### MARKING

Vinylguard is marked with two print lines on opposite sides of the pipe. Both sides read "CAUTION RECLAIMED WATER - DO NOT DRINK" in intervals not to exceed 5 feet. Additional marking information is also applied. The UL, FM, and NSF designations do not apply and are not printed on reclaimed water pipes.

### QUALITY CONTROL

Our full time quality assurance staff continually administers a rigid program of Vinyltech's standard tests to maintain the production of the best pipe products available.

### INSTALLATION

Recommended installation procedure of Vinyltech Corporation and the Uni-Bell PVC Pipe Association are outlined in AWWA C605, *Underground Installation of Polyvinyl Chloride (PVC) Pressure Pipe and Fittings for Water*. The *Uni-Bell Handbook of PVC Pipe* is also an invaluable resource guide for design and installation.

### ASSEMBLING THE PIPE

Assembly of Vinyltech purple PVC reclaimed water 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.**

- 1) Remove any mud, sand, or other foreign matter from the belled and spigot ends of the pipe. Carefully clean the gasket area.
- 2) 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**.
- 3) Brace the bell to avoid disturbing the already installed joints. Align the pipe, insert the spigot into the bell and push.
- 4) **Do not insert past the entry mark line.**



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C900 DR 18 PRESSURE CLASS 235						
NOMINAL SIZE (IN)	(mm)	OUTER DIAMETER (IN)	MINIMUM WALL	LIFTS PER TRUCK	FEET PER LIFT	APPROXIMATE WEIGHT (LB/100')
4	(100)	4.80	0.267	16	1020	251.6
6	(150)	6.90	0.383	16	440	521.2
8	(200)	9.05	0.503	20	200	903.0
10	(250)	11.10	0.617	12	240	1364.4
12	(500)	13.20	0.733	28	60-80	1935.8
C900 DR 14 PRESSURE CLASS 305						
NOMINAL SIZE (IN)	(mm)	OUTER DIAMETER (IN)	MINIMUM WALL	LIFTS PER TRUCK	FEET PER LIFT	APPROXIMATE WEIGHT (LB/100')
4	(100)	4.80	0.343	16	1020	317.5
6	(150)	6.90	0.493	16	440	658.7
8	(200)	9.05	0.646	20	200	1139.7
10	(250)	11.10	0.793	12	240	1722.3
12	(500)	13.20	0.943	28	60-80	2445.5
C905 DR 25 PRESSURE RATED 165						
NOMINAL SIZE (IN)	(mm)	OUTER DIAMETER (IN)	MINIMUM WALL	LIFTS PER TRUCK	FEET PER LIFT	APPROXIMATE WEIGHT (LB/100')
*14	(100)	15.30	0.612	120	1440	1935.0
16	(150)	17.40	0.696	40/60	1000	2575.0
18	(200)	19.50	0.780	40/60	1000	3165.0
*20	(250)	21.60	0.864	80	640	3900.0
*24	(300)	25.80	1.032	60	360	5600.0
C905 DR 18 PRESSURE RATED 235						
NOMINAL SIZE (IN)	(mm)	OUTER DIAMETER (IN)	MINIMUM WALL	LIFTS PER TRUCK	FEET PER LIFT	APPROXIMATE WEIGHT (LB/100')
*14	(100)	15.30	0.850	120	1440	2650.0
16	(150)	17.40	0.967	40/60	1000	3475.0
18	(200)	19.50	1.083	40/60	1000	4340.0
*20	(250)	21.60	1.200	80	640	5350.0
*24	(300)	25.80	1.433	60	360	7650.0

\*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.

- 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”**