

PVC

PRESSURE PIPE STANDARDS FOR RECLAIMED WATER

THE MATERIAL OF CHOICE FOR LONG-TERM ASSET MANAGEMENT

Over the past 40 years, PVC Pipe Association members have manufactured the pipe material most frequently used by water and sewer utilities for reclaimed and recycled water. It is available in a wide range of sizes and colored purple (the internationally recognized color for municipal reclaimed water) to minimize the risk of cross connection with potable water and sewer systems.



SUSTAINABLE PIPING FOR THE ENVIRONMENT

PVC pipe is the industry standard: less energy and fewer resources are needed to manufacture and install it. Moreover, it doesn't deteriorate due to corrosion and produces significant savings over the life cycle of a pipe network. One of the world's most durable products with arguably no known end-life, PVC is the most sustainable piping material available.

To find out more about PVC pipe and North American cities that use it, contact us at 972-243-3902 or visit www.uni-bell.org.

Please note: trenchless installation options are also available.



PIPE PRODUCING MEMBERS



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PRESSURE PIPE STANDARDS FOR RECLAIMED WATER

Standard	Performance Designation	Nominal Diameter Range	Outside Diameter (OD)	Pressure Class (PC) Pressure Rating (PR) DR = OD/t = SDR	Joining System
AWWA C900 PVC Water Distribution and Transmission Pipe & Fabricated Fittings	Pressure Class (PC)	4" – 12"	Cast Iron Compatible (CIOD)	PC 165 psi – DR25 PC 235 psi – DR18 PC 305 psi – DR14	Gasket or Butt Fusion
AWWA C905 PVC Water Transmission Pipe & Fabricated Fittings	Pressure Class (PC)	14"– 48"	Cast Iron or Iron/Steel Pipe Size Compatible (CIOD or IPS)	PR* 80 psi – DR51 PR* 100 psi – DR41 PR* 125 psi – DR32.5 PR* 160 psi – DR26 PR* 165 psi – DR25 PR* 200 psi – DR21 PR* 235 psi – DR18 PR* 305 psi – DR14†††	Gasket or Butt Fusion
AWWA C909 PVCO Water Distribution & Transmission Pipe	Pressure Class (PC)	4"– 24"	Cast Iron Compatible (CIOD)	PC 165 psi PC 235 psi PC 305 psi	Gasket
ASTM F1483 PVCO Pressure Rated Pipe	Pressure Rating (PR)	4"– 16"	Cast Iron or Iron/Steel Pipe Size Compatible (CIOD or IPS)	PR 150 PR 160 PR 200 PR 250	Gasket
ASTM D2241 Pressure Rated PVC Pipe†	Pressure Rating (PR)	1/2"– 36"	Iron/Steel Pipe Size Compatible (IPS)	PR 63 psi – SDR64 PR 100 psi – SDR41 PR 125 psi – SDR32.5 PR 160 psi – SDR26 PR 200 psi – SDR21 PR 250 psi – SDR17 PR 315 psi – SDR13.5	Gasket, Solvent Cement or Butt Fusion
ASTM D1785 Schedule Rated PVC Pipe	Schedule (SCH)	1/2"– 24"	Iron/Steel Pipe Size Compatible (IPS)	SCH 40, 80 & 120††	Gasket, Solvent Cement or Butt Fusion

* Certain dimension ratios are available in only IPS or CI outside diameters.

† The annexes offer PIP diameter regimens.

†† Pressure ratings vary individually by pipe size and schedule. See ASTM D1785. ††† DR14 not available above 16".

Note: Some pipe in larger diameters and very high/low wall thicknesses may have to be ordered in advance. Check product availability with PVC Pipe Association member companies.



Published by
THE PVC PIPE ASSOCIATION
(Uni-Bell PVC Pipe Association)

2711 LBJ Freeway, Ste. 1000
Dallas, Texas 75234
Phone: (972) 243-3902

Fax: (972) 243-3902
Email: info@uni-bell.org
www.uni-bell.org