

PVC PRESSURE PIPE STANDARDS

Standard	Performance Designation	Nominal Diameter Range	Outside Diameter (OD)	Pressure Class (PC) Pressure Rating (PR) DR = OD/t = SDR	Minimum Cell Classification	Joining System
AWWA C900 PVC Water Distribution and Transmission Pipe & Fabricated Fittings	Pressure Class (PC)	4" - 12"	Cast Iron Compatible (CIOD)	PC 165 psi - DR 25 PC 235 psi - DR 18 PC 305 psi - DR 14	12454	Gasket or Thermal Fusion
AWWA C905 PVC Water Transmission & 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 - DR 18 PR* 305 psi - DR 14 †††	12454	Gasket or Thermal 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	12454**	Gasket
ASTM F1483 PVCO Pressure Rated Pipe	Pressure Rating (PR)	4" - 16"	Iron/Steel Pipe Size or Cast Iron (IPS or CIOD)	PR 150 PR 160 PR 200 PR 250	12454**	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	12454	Gasket or Solvent Cement
ASTM D1785 Schedule Rated PVC Pipe	Schedule (SCH)	1/2" - 24"	Iron/Steel Pipe Size Compatible (IPS)	SCH 40, 80 & 120††	12454	Gasket or Solvent Cement

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

** Cell classification specified is for the compound used to make starting stock.

† The annexes offer PIP and CTS diameter regimens.

†† Pressure ratings vary individually by pipe size and schedule. See ASTM D1785. ††† DR 14 not available above 14".

Note: Some diameters and/or wall thicknesses may not be readily available due to low market demand. This may occur in the upper end of a diameter range or an extreme (high/low) wall thickness. Check with Uni-Bell member companies regarding specific product availability.

The PVC Pipe Association

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