

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 Pressure Pipe & Fabricated Fittings	Pressure Class (PC)	4" – 12"	Cast Iron Compatible (CIOD)	PC 165 psi – DR25 PC 235 psi – DR18 PC 305 psi – DR14	12454	Gasket - Unrestrained Joint Gasket - Restrained Joint Butt Fusion
AWWA C905 PVC Pressure Pipe & Fabricated Fittings	Pressure Class (PC)	14"– 48"	Cast Iron or Iron/Steel Pipe Size Compatible (CIOD or IPS)	PR ^A 80 psi – DR51 PR ^A 100 psi – DR41 PR ^A 125 psi – DR32.5 PR ^A 160 psi – DR26 PR ^A 165 psi – DR25 PR ^A 200 psi – DR21 PR ^A 235 psi – DR18 PR ^A 305 psi – DR14	12454	Gasket - Unrestrained Joint Gasket - Restrained Joint Butt Fusion
AWWA C909 PVCO Pressure Pipe	Pressure Class (PC)	4"– 24"	Cast Iron Compatible (CIOD)	PC 165 psi PC 235 psi PC 305 psi	12454 ^B	Gasket - Unrestrained Joint Gasket - Restrained Joint
ASTM F1483 PVC Pressure 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	12454 ^B	Gasket - Unrestrained Joint Gasket - Restrained Joint
ASTM D2241 PVC Pressure Pipe ^C	Pressure Rating (PR)	1/8"– 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 - Unrestrained Joint Gasket - Restrained Joint Solvent Cement Butt Fusion
ASTM D1785 PVC Pressure Pipe	Schedule	1/8"– 24"	Iron/Steel Pipe Size Compatible (IPS)	Schedule 40 ^D Schedule 80 ^D Schedule 120 ^D	12454	Gasket - Unrestrained Joint Solvent Cement Butt Fusion

^A Some dimension ratios are available only in IPS or in CI outside diameters.

^B PVCO cell classification specified is for compound used to produce starting stock.

^C D2241 Annex provides PIP outside diameter regimen.

^D D1785 pressure ratings vary by schedule and by pipe size.

Note: Some diameters and/or wall thicknesses may not be readily available. Check with Uni-Bell member companies regarding specific product availability.