

## ADS POTABLE WATER SERVICE PIPE (IPS) PIPE SPECIFICATIONS

### Scope

This specification describes ADS Potable Water Service Pipe (IPS) pipe SIDR 19, SIDR 15, SIDR 11.5, SIDR 9, and SIDR 7 for use in potable water service applications.

### Pipe Requirements

ADS potable water service pipe shall meet the requirements of ASTM D2239, AWWA C901 and NSF/ANSI Standards 14 and 61. Pipe dimensions shall meet ID controlled Iron Pipe Size (IPS) standards.

### Material Properties

Pipe material shall be high-density polyethylene conforming to the minimum requirements of cell classification 445574C or 445574E as defined and described in ASTM D3350, except that carbon black content should not exceed 3.0%. The resin shall have a material designation code of PE4710 by the Plastic Pipe Institute.

### Disinfection/Maintenance

The active chlorine content of disinfecting solutions shall not exceed 12%. All disinfecting solution must be flushed from all lines within the system. Industry accepted procedures, like ANSI/AWWA C651 *Disinfecting Water Mains*, should be followed for both new and repaired potable water lines.

### Installation

Installation is similar to other flexible pipe products. Methods including direct bury, plowing or pulling are applicable per local, state or federal guidelines for the application.

### Pipe Properties

		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
SIDR 19	Inside Diameter in (mm)	0.622 ±0.01 (15.8 ±0.25)	0.824 ±0.015 (20.9 ±0.38)	1.049 ±0.02 (26.6 ±0.51)	1.380 ±0.02 (35.1 ±0.51)	1.610 ±0.02 (40.9 ±0.51)	2.067 ±0.02 (52.5 ±0.51)
	Wall Thickness in (mm)	0.060 +0.02 (1.5 +0.51)	0.060 +0.02 (1.5 +0.51)	0.060 +0.02 (1.5 +0.51)	0.073 +0.02 (1.9 +0.51)	0.085 +0.02 (2.2 +0.51)	0.109 +0.020 (2.8 +0.51)
	Pressure Rating @ 73°F psi (kPa)	100 (689)	100 (689)	100 (689)	100 (689)	100 (689)	100 (689)
	Weight gm/ft (gm/m)	28 ±2 (92 ±7)	38 ±2 (125 ±7)	47 ±2 (154 ±7)	80 ±3 (262 ±10)	96 ±3 (315 ±10)	190 ±5 (623 ±16)
SIDR 15	Inside Diameter in (mm)	0.622 ±0.01 (15.8 ±0.25)	0.824 ±0.015 (20.9 ±0.38)	1.049 ±0.02 (26.6 ±0.51)	1.380 ±0.02 (35.1 ±0.51)	1.610 ±0.02 (40.9 ±0.51)	2.067 ±0.02 (52.5 ±0.51)
	Wall Thickness in (mm)	0.060 +0.02 (1.5 +0.51)	0.060 +0.02 (1.5 +0.51)	0.070 +0.02 (1.8 +0.51)	0.092 +0.02 (2.3 +0.51)	0.107 +0.02 (2.7 +0.51)	0.138 +0.020 (3.5 +0.51)
	Pressure Rating @ 73°F psi (kPa)	125 (862)	125 (862)	125 (862)	125 (862)	125 (862)	125 (862)
	Weight gm/ft (gm/m)	30 ±2 (98 ±7)	39 ±2 (128 ±7)	56 ±2 (184 ±7)	97 ±3 (318 ±10)	129 ±3 (423 ±10)	200 ±5 (656 ±16)
SIDR 11.5	Inside Diameter in (mm)	0.622 ±0.01 (15.8 ±0.25)	0.824 ±0.015 (20.9 ±0.381)	1.049 ±0.02 (26.6 ±0.51)	1.380 ±0.02 (35.1 ±0.51)	1.610 ±0.02 (40.9 ±0.51)	2.067 ±0.02 (52.5 ±0.51)
	Wall Thickness in (mm)	0.060 +0.02 (1.5 +0.51)	0.072 +0.02 (1.8 +0.51)	0.091 +0.02 (2.3 +0.51)	0.120 +0.02 (3.0 +0.51)	0.140 +0.02 (3.6 +0.51)	0.180 +0.020 (4.6 +0.51)
	Pressure Rating @ 73°F psi (kPa)	160 (1103)	160 (1103)	160 (1103)	160 (1103)	160 (1103)	160 (1103)
	Weight gm/ft (gm/m)	30 ±2 (98 ±7)	50 ±2 (164 ±7)	72 ±2 (236 ±7)	125 ±3 (410 ±10)	146 ±3 (479 ±10)	248 ±5 (814 ±16)

Pipe Properties (continued)

SIDR 9	Inside Diameter in (mm)	0.622 ±0.01 (15.8 ±0.25)	0.824 ±0.015 (20.9 ±0.38)	1.049 ±0.02 (26.6 ±0.51)	1.380 ±0.02 (35.1 ±0.51)	1.610 ±0.02 (40.9 ±0.51)	2.067 ±0.02 (52.5 ±0.51)
	Wall Thickness in (mm)	0.069 +0.02 (1.8 +0.51)	0.092 +0.02 (2.3 +0.51)	0.117 +0.02 (3.0 +0.51)	0.153 +0.02 (3.9 +0.51)	0.179 +0.02 (4.5 +0.51)	0.230 +0.028 (5.8 +0.71)
	Pressure Rating @ 73°F psi (kPa)	200 (1379)	200 (1379)	200 (1379)	200 (1379)	200 (1379)	200 (1379)
	Weight gm/ft (gm/m)	32 ±2 (105 ±7)	53 ±2 (174 ±7)	88 ±3 (289 ±10)	155 ±3 (509 ±10)	185 ±5 (607 ±16)	330 ±5 (1083 ±16)
SIDR 7	Inside Diameter in (mm)	0.622 ±0.01 (15.8 ±0.25)	0.824 ±0.015 (20.9 ±0.38)	1.049 ±0.02 (26.6 ±0.51)	1.380 ±0.02 (35.1 ±0.51)	1.610 ±0.02 (40.9 ±0.51)	2.067 ±0.02 (52.5 ±0.51)
	Wall Thickness in (mm)	0.089 +0.02 (2.3 +0.51)	0.118 +0.02 (3.0 +0.51)	0.150 +0.02 (3.8 +0.51)	0.197 +0.02 (5.0 +0.51)	0.230 +0.03 (5.8 +0.71)	0.295 +0.035 (7.5 +0.89)
	Pressure Rating @ 73°F psi (kPa)	250 (1724)	250 (1724)	250 (1724)	250 (1724)	250 (1724)	250 (1724)
	Weight gm/ft (gm/m)	38 ±2 (125 ±7)	71 ±2 (233 ±7)	116 ±3 (381 ±10)	210 ±5 (689 ±16)	227 ±5 (745 ±16)	440 ±8 (1443 ±26)

\* Additional SDRs may be available. Contact an ADS Representative for regional availability.