

ADS POLYFLEX® RECLAIMED IPS & CTS PRESSURE PIPE SPECIFICATION

Scope

This specification describes ADS Reclaimed Water Service Pipe (IPS) SDR 7 and Reclaimed Water Service Tubing (CTS) SDR 9 for use in reclaimed water service applications.

Pipe Requirements

ADS reclaimed water service pipe shall meet the requirements of ASTM D2239 (IPS), ASTM D2737 (CTS) and AWWA C901. Pipe dimensions shall meet ID controlled Iron Pipe Size (IPS) and Copper Tubing Sizes (CTS) standards. ADS reclaimed water service pipe shall be lavender in color.

Material Properties

Pipe material shall be high-density polyethylene conforming to the minimum requirements of cell classification 445574C CC3 or 445574E CC3 as defined and described in ASTM D3350. 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 this application.

Pipe Properties

Reclaimed Water Service Pipe (IPS)

	½" (13 mm)	¾" (19 mm)	1" (25 mm)	1 ¼" (32 mm)	1 ½" (38 mm)	2" (50 mm)
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 +0.020 (3.8 +0.51)	0.197 +0.020 (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)

Reclaimed Water Service Tubing (CTS)

	¾" (19 mm)	1" (25 mm)	1 ¼" (32 mm)	1 ½" (38 mm)	2" (50 mm)
Outside Diameter in (mm)	0.875 ±0.004 (22.2 ±0.10)	1.125 ±0.005 (28.6 ±0.13)	1.375 ±0.005 (34.9 ±0.13)	1.625 ±0.006 (41.3 ±0.15)	2.125 ±0.006 (54.0 ±0.51)
Wall Thickness in (mm)	0.097 +0.01 (2.5 +0.25)	0.125 +0.012 (3.2 +0.30)	0.153 +0.015 (3.9 +0.38)	0.181 +0.018 (4.6 +0.46)	0.236 +0.024 (6.0 +0.61)
Pressure Rating @ 73°F psi (kPa)	250 (1724)	250 (1724)	250 (1724)	250 (1724)	250 (1724)
Weight gm/ft (gm/m)	46 ±2 (151 ±7)	78 ±3 (256 ±10)	125 ±4 (410 ±13)	162 ±4 (531 ±13)	275 ±5 (902 ±16)

Build America, Buy America (BABA)

ADS PolyFlex Reclaim Pipe, manufactured in accordance with ASTM D2239 and ASTM D2737, complies with the requirements in the Build America, Buy America (BABA) Act.