

TDR FORZA FLOW®

IPS PE PRESSURE PIPE



TDR Forza Flow® pressure pipe is a leading solution for water service, agricultural systems, landscape irrigation, and potable water distribution. Manufactured from high-density polyethylene (HDPE), it combines lightweight handling, exceptional chemical resistance, and long-term durability – making it the ideal choice for demanding infrastructure and water conveyance applications.

SCOPE

TDR Forza Flow® IPS potable water tubing is built for strength and resilience; it withstands vibrations, UV exposure, surface loads, and pressure surges making it ideal for seismic and exterior installations. No matter the application, TDR Forza Flow® delivers superior flexibility, hydraulic performance, and durability that sets it apart from the competing products.

APPLICATIONS

Designed for use in residential and commercial drinking water services, including municipal service connections, well and pump systems, irrigation, and agricultural applications including farm and ranch water supply.

BENEFITS

Designed for potable water distribution, our IPS tubing provides excellent installation flexibility along with strong UV, impact, and chemical resistance in a lightweight, durable product. Butt fusion joining minimizes internal diameter restrictions while enabling a chemical- and fitting-free installation.

TDR Forza Flow® pipe is designed to perform up to 140°F (60°C) for pressure service, with the ability to withstand intermittent exposures up to 180°F (82°C) for gravity-flow or short-term applications. Pressure ratings decrease at temperatures above 80°F (27°C), and continuous gravity-flow service above 180°F (80°C) is not recommended.

MATERIALS

TDR Forza Flow® HDPE Pipe is manufactured using high-density polyethylene (HDPE) 4710 resin. This high performance bimodal resin is NSF 61 certified for use in potable water systems.

STANDARDS

TDR Forza Flow® IPS pipes comply with ASTM D3035 and AWWA C901.

JOINING SYSTEMS

Forza Flow® IPS pipes can be joined using butt fusion, electrofusion couplings, or mechanical compression fittings, depending on installation conditions and requirements. A broad existing range of outer diameter IPS couplings or fittings—such as elbows, tees, reducers, couplings, and adapters—enables direction changes, branching, and diameter transitions while maintaining system integrity and hydraulic performance.

PRESENTATION IPS

TDR Forza Flow® is supplied in 100, 200, 300, and 500 ft coils with the following specifications:

ND	OD	Min. Wall Thickness		
		RD 7	RD 9	RD 11
		333 psi* (2.3 MPa)	250 psi* (1.7 MPa)	200 psi* (1.4 MPa)
3/4"	1.05" (26.70mm)	0.15" (3.81mm)	0.117" (2.97mm)	0.095" (2.41mm)
1"	1.315" (33.40mm)	0.188" (4.78mm)	0.146" (3.71mm)	0.12" (3.05mm)
1 1/4"	1.660" (42.20mm)	0.237" (6.02mm)	0.184" (4.67mm)	0.151" (3.84mm)
1 1/2"	1.9" (48.3mm)	0.271" (6.88mm)	0.211" (5.36mm)	0.173" (4.39mm)
2"	2.375" (60.30mm)	0.339" (8.61mm)	0.264" (6.71mm)	0.216" (5.49mm)
3"	3.5" (88.9mm)	0.5" (12.7mm)	0.389" (9.88mm)	0.318" (8.08mm)

* Water pressure ratings at 73°F (23°C).