

# FLEXSTRONG™

## High Pressure Spoolable Pipe

Flexstrong™ is a spoolable, non-corrosive, fully bonded Thermoplastic Composite Pipe (TCP), suitable for use across a range of applications in the Oil & Gas and Water industries, with key features such as:

- High pressure capacity
- Corrosion free
- Length up to 1,100 m (3,610 ft)
- Fully bonded wall
- Rapid installation
- Flexible
- Exceptional durability
- Lightweight transportability

Flexstrong™ offers a solution for a broad range of applications including environmentally sensitive areas and replacement to failed steel pipelines. Flexstrong™ is commonly used in oilfield applications like:

- Produced fluids
- Brine
- Water injection
- Natural gas



## Description

Flexstrong™ consists of three basic layers including a thermoplastic (HDPE) liner, helically wrapped HDPE continuous fiber high-strength reinforced thermoplastic composite (GF-RTP) tape reinforcement, and an external thermoplastic jacket.



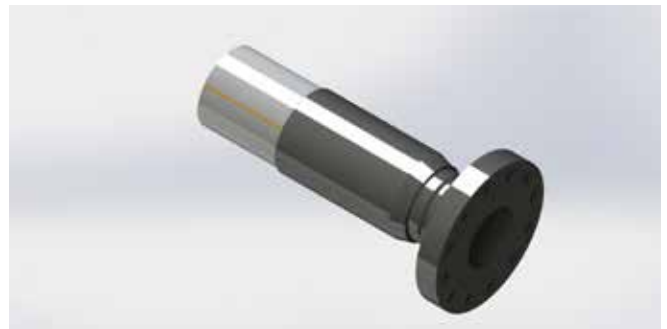
Flexstrong™ is manufactured in accordance with API 15S, API Q1, and ISO 9001:2015 with a design life of 20 years and standard pressure rating up to 1,500 psi (103 bar). Flexstrong™ offers a 3:1 burst safety factor at operating temperatures up to 150 °F (65 °C). Higher pressure ratings and temperatures are available as custom design products.



## Joint Connection and Installation



Pipe-to-Pipe Coupling



Flanged-End Connection

Pipe fittings are available in 316 stainless steel, galvanized steel, and carbon steel. Fittings can be supplied in 300, 600, 900 ANSI classes. Fittings are the single (external) swage type, or the dual swage (internal & external) process. Field technicians available upon request in accordance with current rate sheet.

**Note:** above steel fitting figures are for illustration purposes only.



## Flexstrong™ - Standard Product Line

Pressure rating (psi)		1'000			1'500		
Nominal size	in	3"	4"	6"	3"	4"	6"
Pipe inner diameter	in	2.60	3.66	5.67	2.60	3.66	5.67
	mm	66.0	93.0	144.0	66.0	93.0	144.0
Pipe outside diameter	in	3.74	4.88	7.14	3.79	4.98	7.29
	mm	95.0	124.0	181.4	96.2	126.4	185.2
Pipe liner		HDPE					
Pipe tape reinforced		GF-RTP					
Pipe outer jacket		HDPE w/UV					
Weight – empty in air	lb/ft	2.62	3.76	6.99	2.82	4.30	8.13
	kg/m	3.9	5.6	10.4	4.2	6.4	12.1

## Shipping Reels

Pressure rating (psi)		1'000				1'500			
Nominal size	in	3"	4"	6"		3"	4"	6"	
Length / reel*	ft	3,610	1,800	820	1,970	3,610	1,800	820	1,970
	m	1,100	550	250	600	1,100	550	250	600
Reel outside diameter	ft	12.0	12.0	14.0	17.0	12.0	12.0	14.0	17.0
	m	3.6	3.6	4.3	5.2	3.6	3.6	4.3	5.2
Reel width	ft	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	m	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Reel core diameter	in	100.0	100.0	135.0	135.0	100.0	100.0	135.0	135.0
	m	2.4	2.4	3.4	3.4	2.4	2.4	3.4	3.4
Reel Weight - Empty*	lb	2,900	2,900	3,100	4,000	2,900	2,900	3,110	4,000
	kg	1,320	1,320	1,410	1,820	1,320	1,320	1,410	1,820
Reel Weight - Full*	lb	12,350	9,700	8,820	17,770	13,100	10,670	9,790	20,020
	kg	5,600	4,400	4,000	8,060	5,940	4,840	4,440	9,080

\*Lengths and weights are approximate and may change depending on actual conditions.





FPI-FXSFLR-V10231



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