

DuraFlex

Next Generation Composite Spoolable Pipe



Reduce costs and improve reliability

DuraFlex uses the latest technology in materials and manufacturing, delivering a unique, spoolable product to provide superior performance and flexibility for flowline and gathering line applications.

Corrosion Resistance

Eliminate the need for ongoing maintenance programs such as chemical injection, with the corrosion resistant nature of DuraFlex.

Durability

DuraFlex gets its strength and flexibility from three thermally fused layers, forming a solid wall structure:

1. Inner Liner - an extruded, corrosion resistant barrier of pipe-grade thermoplastic.
2. Reinforcement - a fiber-reinforced thermoplastic tape that is helically wound on the inner liner at an engineered angle to provide a matrix of strength and flexibility.
3. External Cover - a pipe-grade thermoplastic jacket that provides protection for the reinforced structure.

Ease of Installation

The lightweight nature of DuraFlex enables easy installation, minimizing the need for heavy equipment and difficult pipe handling.

Flexibility

The flexibility of DuraFlex enables the pipe to be spooled with lengths up to 3,000' for efficient deployment and installation.

Features and Benefits

- Corrosion resistance
- No maintenance
- Improved flow capacity
- Lower installation costs
- Lighter weight
- Easy to install
- Minimal installation time
- Smaller transportation and installation equipment

Product Offering

Size	3", 4", 6" & 8"
Pressure Series	500 & 750 psi
Design Temp	150°F (65.6°C)
Max Temp	Up to 180°F (82.2°C)

DuraFlex is produced in an API Q1 ISO9001 facility that is licensed to produce API 15S pipe. It is then 100% hydrotested at the factory to 1.5x the nominal pressure rating



Installation

Available on 10.5', 12', 14', and 16' reels, the lightweight nature of DuraFlex allows for efficient transport and deployment in field. Spools are easily handled using NOV FGS spool trailers or existing contractor equipment.

Training and certification programs also ensure that DuraFlex is installed properly and reliably to ensure successful commissioning and operation in service.



Connections

Connector designs are tested and qualified along with the pipe providing a complete, reliable pipeline system. Connections are available in a variety of material and end configurations to meet existing system needs for fast and efficient tie-ins.

- Flanged
- Welded
- Threaded or Custom End connections
- Pipe to Pipe connectors

To provide a reliable, leak-tight fit, DuraFlex connectors are installed using an external swage type connection that is simple to use and easy to operate.

Product Properties

Series 500

Nominal Pressure Rating (NPR) 500 psi (3.45 MPa) at 150°F (65.5°C)
350 psi (2.41 MPa) at 180°F (82.2°C)

Product & Size	Pipe Dimensions						Pipe Weight		Reel Capacity		Reel Size	
	Inside Diameter		Outside Diameter		Overall Wall Thickness		lbs/ft	kg/m	ft	m	ft	m
	in	mm	in	mm	in	mm						
DF 3" 500	2.82	72	3.66	93	0.42	11	1.99	2.97	3,000 / 1,700	915 / 518	12 / 10.5	3.66 / 3.20
DF 4" 500	3.57	91	4.58	116	0.51	13	3.09	4.61	2,400	732	12	3.66
DF 6" 500	5.60	142	6.82	173	0.61	15	5.79	8.63	2,100 / 1,050	640 / 320	16 / 14	4.88 / 4.27
DF 8" 500	7.55	192	9.10	231	0.77	19.7	10.44	15.54	750	228	16	4.88

Product Properties

Series 750

Nominal Pressure Rating (NPR) of 750 psi (5.18 MPa) at 150°F (65.5°C)
500psi (3.45 MPa) at 180°F (82.2°C)

Product & Size	Pipe Dimensions						Pipe Weight		Reel Capacity		Reel Size	
	Inside Diameter		Outside Diameter		Overall Wall Thickness		lbs/ft	kg/m	ft	m	ft	m
	in	mm	in	mm	in	mm						
DF 3" 750	2.82	72	3.75	95	0.47	12	2.33	3.47	3,000 / 1,700	915 / 518	12 / 10.5	3.66 / 3.20
DF 4" 750	3.57	91	4.66	118	0.55	14	3.51	5.23	2,400	732	12	3.66
DF 6" 750	5.60	142	7.01	178	0.70	18	7.01	10.59	1,400 / 1,000	427 / 304	16 / 14	4.88 / 4.27