FLEXSTEEL

FLEXSTEEL™ LINE PIPE

FlexSteel line pipe provides a high quality, reliable solution to safely deliver oil, gas, water, and multiphase production. Developed from over 30 years of offshore experience, the pipe is engineered to improve production flow rates, reduce installation costs, and eliminate pipeline corrosion.

THE TOUGHEST, MOST DURABLE LINE PIPE AVAILABLE

What makes FlexSteel pipe so tough? First, it eliminates the potential for pitting associated with conventional steel pipelines. Second, the system's helically wound steel core delivers increased structural integrity to withstand pulsating and cyclic pressures commonly found in water injection and disposal lines.

LOWER INSTALLATION COST COMPARED TO STEEL PIPE

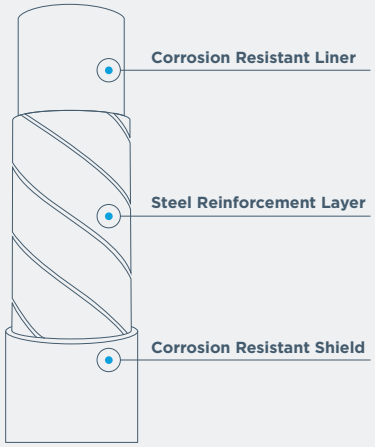
With longer pipe lengths, smaller crews, and streamlined processes to increase installation speed, FlexSteel pipe accelerates time to production and generates significant cost savings, reducing CAPEX by as much as 65% compared to steel pipelines.

PROPRIETARY PIPELINE CONNECTIONS SYSTEMS

Designed in accordance with ASME B16.5 standards, FlexSteel's pipeline connection systems eliminate gaps in the connection and provide a 360-degree leak-tight compression fit for increased safety.

PIPELINE COMPARISON CHART

	FLEXSTEEL PIPELINES	STEEL PIPELINES	SPOOLABLE PIPELINES
PIPE SIZES	2-, 3-, 4-, 6-, 8-inch	2-, 3-, 4-, 6-, 8-inch	2 1/2- to 6 1/2-inches
CONNECTION PROCESS	360-degree leak-tight compression fit	Welded joints	Crimping, hand-tightening, or electrofusion
DERATING	None	Derated with corrosion wall loss	Up to 50%



2-INCH TO 8-INCH DIAMETER

Available in sizes from 2-inch to 8-inch with design pressures up to 3,000 psi.

CORROSION RESISTANT DESIGN

Avoids microbiologically influenced corrosion (MIC).

NO DERATING OVER TIME OR BY APPLICATION

Continues to perform to its original design specifications and will not derate over time or by application.

PRODUCT SHEET
US CUSTOMARY UNITS

FLEXSTEEL

	Nominal Size (in)	PSI	ASME B16.5 Flange Class	Pipe Length (ft)	Pipe Inside Diameter (in)	Pipe Outside Diameter (in)	Storage Bend Radius, SBR (ft)	Operating Bend Radius, OBR (ft)	Weight Empty Air (lb/ft)	OHTC, U (based on ID) BTU/hr-ft²°F	Maximum Installation Tension (lb)
STANDARD REELS	2	1,500	600	6,578	1.94	2.69	1.5	2.1	2.3	6.73	3,800
		2,250	900	4,462	1.94	2.80	1.5	2.2	3.3	6.85	10,500
		3,000	1500	4,298	1.94	2.80	1.6	2.2	3.5	6.85	10,500
	3	750	400	4,560	2.82	3.65	2.0	2.8	3.3	5.76	8,000
		1,500	600	4,003	2.82	3.68	2.0	2.8	3.7	5.78	8,000
		2,250	900	2,871	2.82	3.76	2.5	2.9	5.4	5.83	9,000
		3,000	1500	2,461	2.82	3.83	2.1	2.9	6.2	5.87	14,000
	4	750	300	3,264	3.67	4.58	3.0	3.5	4.6	5.08	8,000
		1,500	600	2,690	3.67	4.65	2.6	3.6	5.7	5.11	15,000
		2,250	900	1,821	3.67	4.76	2.6	3.7	8.4	5.15	20,000
		3,000	1500	1,476	3.67	4.89	2.7	3.8	11.0	5.20	22,000
	6	750	300	1,230	5.60	6.93	3.8	5.3	9.2	3.39	20,000
		1,500	600	1,181	5.60	7.05	3.9	5.4	12.9	3.41	30,000
		2,250	900	837	5.60	7.21	4.0	5.5	18.3	3.44	30,000
		3,000	1500	640	5.60	7.36	4.0	5.7	22.4	3.46	45,000
	8	750	300	607	7.63	9.12	5.0	7.0	14.0	2.96	30,000
		1,500	600	607	7.63	9.29	5.1	7.1	21.2	2.99	40,000
		2,250	900	459	7.63	9.53	5.2	7.3	30.8	3.02	45,000
REEL-LESS PACKAGING COILS	6	750	300	2,543	5.60	6.93	3.8	5.3	9.2	3.39	20,000
		1,500	600	2,608	5.60	6.94	3.8	5.3	12.3	3.69	25,000
	8	750	300	1,260	7.25	8.75	4.8	6.7	14.1	3.01	25,000
		1,500	600	1,260	7.25	8.83	4.9	6.8	19.5	3.19	35,000
		2,250	900	1,237	7.25	8.99	4.9	6.9	25.3	3.21	40,000

Standard Properties for All Pipe Sizes

Absolute Roughness, ε (ft)	5.0E-06
Hazen-Williams Coefficient, C	150
Standard Pipe Max Temperature (°F)	150
High Temp Max Temperature (°F)	185

Capable of temperatures up to 194˚F (90˚C) based on application.

PRODUCT SHEET
METRICS

FLEXSTEEL

	Nominal Size (in)	BAR	ASME B16.5 Flange Class	Pipe Length (m)	Pipe Inside Diameter (mm)	Pipe Outside Diameter (mm)	Storage Bend Radius, SBR (m)	Operating Bend Radius, OBR (m)	Weight Empty Air (kg/m)	OHTC, U (based on ID) W/m²°C)	Maximum Installation Tension (kN)
STANDARD REELS	2	100	600	2,005	49.3	68.3	0.45	0.63	3.4	38.19	16.9
		155	900	1,360	49.3	71.1	0.47	0.66	5.0	38.91	46.7
		200	1500	1,310	49.3	71.1	0.48	0.67	5.2	38.91	46.7
	3	50	400	1,390	71.7	92.7	0.61	0.86	5.0	32.70	35.6
		100	600	1,220	71.7	93.5	0.62	0.86	5.6	32.81	35.6
		155	900	875	71.7	95.5	0.77	0.88	8.0	33.09	40.0
		200	1500	750	71.7	97.4	0.64	0.90	9.2	33.34	62.3
	4	50	300	995	93.2	116.2	0.92	1.07	6.9	28.86	35.6
		100	600	820	93.2	118.1	0.78	1.09	8.5	29.02	66.7
		155	900	555	93.2	120.9	0.80	1.12	12.5	29.26	89.0
		200	1500	450	93.2	124.2	0.82	1.15	16.3	29.53	97.9
	6	50	300	375	142.3	176.1	1.16	1.62	13.7	19.26	89.0
		100	600	360	142.3	179.1	1.18	1.65	19.3	19.37	133.4
		155	900	255	142.3	183.2	1.21	1.69	27.2	19.52	133.4
		200	1500	195	142.3	186.8	1.23	1.72	33.4	19.64	200.2
	8	50	300	185	193.7	231.6	1.53	2.14	20.9	16.83	133.4
		100	600	185	193.7	236.1	1.56	2.18	31.5	16.96	177.9
		155	900	140	193.7	241.9	1.59	2.23	45.8	17.13	200.2
REEL-LESS PACKAGING COILS	6	50	300	775	142.2	176.0	1.16	1.62	13.7	19.24	89.0
		100	600	795	142.2	176.3	1.16	1.62	18.3	20.94	111.2
	8	50	300	384	184.2	222.3	1.46	2.04	21.0	17.08	111.2
		100	600	384	184.2	224.3	1.49	2.07	29.0	18.10	155.7
		155	900	377	184.2	228.3	1.49	2.10	37.7	18.22	177.9

Standard Properties for All Pipe Sizes

Absolute Roughness, ε (m)	1.5E-06
Hazen-Williams Coefficient, C	150
Standard Pipe Max Temperature (°C)	65
High Temp Max Temperature (°C)	85

Capable of temperatures up to 194˚F (90˚C) based on application.