

Applications

- Pipeline Rehabilitation
- Production Lines
- Injection Lines
- Transfer Lines
- Disposal Lines
- Oil, Gas, Saltwater
- CO₂ and Sour Services

Product Description

- **Sizes** - 2 through 6 inches
- **Pressure** - Up to 3,500 psi (24,1 MPa)
- **E** = High density polyethylene (HDPE) to 140°F (60°C)
- **X** = High temperature polyethylene to 180°F (82°C)
- **XT** = High temperature polyethylene to 203°F (95°C)
- **Resin System** - Anhydride Cured Epoxy
- **Reinforcement** - Premium Fiberglass (E-Glass)
- **Joining Systems** - Compression Slip Connectors
- **Joint Length** - Up to 9,000 ft (2743 m)
- **Absolute Roughness** - 0.00006 in (0.0015 mm)

High Pressure Design

(> 750 psi per API 15HR & 15S)

- **Design Life** - 20 years at full rating
- **Hoop Stress** - 95% Lower Confidence Limit (LCL) of Long Term Hydrostatic Strength according to ASTM D2992-B
- All products are factory hydro tested to 1.5 times the Nominal Pressure Rating (NPR)⁽¹⁾
- Recommended field test pressure is 1.1 to 1.25 times the maximum operating pressure of the system, with a maximum of 1.25 times the Nominal Pressure Rating (NPR) of the LinePipe⁽¹⁾

Benefits

- Corrosion Control
- Reduced Paraffin & Scale Build-Up
- Reduced Installation Costs
- Reduced Maintenance Cost
- Improved Flow Efficiency

Joining System

- **Weld Prep** - Suitable for welding to existing steel lines
- **Welded on Flange** - 300, 600 or 1500 Series ANSI Flanges. Other standard flange drillings available for special order
- **Threaded** - NPT or 8 Round EUE pin or box or API Line Pipe Thread
- **Custom end-preps** are available on request

Fiberspar Connectors are available in:

- Carbon Steel with Electroless Nickel Coated (ENC) wetted parts per ASTM B733
- Coated Carbon Steel with 316L Stainless Steel wetted surface (Pipe to Pipe only)
- 316L Stainless Steel
- Other Corrosion Resistant Alloys (CRA) available upon request

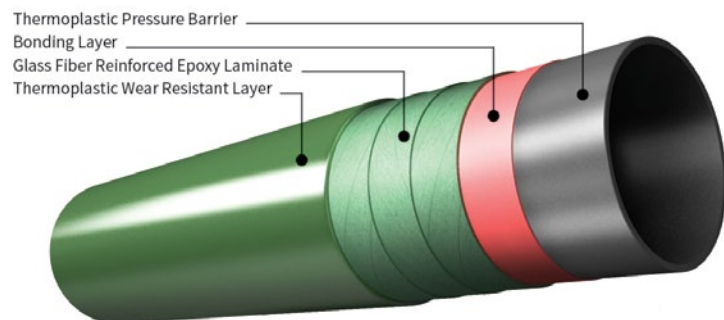
View of Joint Illustrations



Service-End Connector



Pipe-to-Pipe Connector



E Series

Series 750

750 psi (5.2 MPa) API 15S Nominal Pressure Rating (NPR)^(a)

Product & Size	Pipe Dimensions										Minimum Bending Radius		Short-Term Tensile Rating		Reel Capacity	
	Inside Diameter		Outside Diameter		Reinforced Wall Thickness		Min. Reinforced Wall Thickness		Pipe Weight							
	in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m	in	cm	lbf	kgf	ft	m
FS LP 2" 750 (E)	2.00	51	2.50	63	0.079	2.0	0.071	1.8	0.97	1.44	62	157	3480	1570	9000 ^(A)	2743
FS LP 2 ½" 750 (E)	2.51	64	3.05	77	0.082	2.1	0.074	1.9	1.30	1.93	76	193	4480	2030	6000 ^(A)	1829
FS LP 3" 750 (E)	2.96	75	3.53	90	0.089	2.3	0.080	2.0	1.63	2.43	88	224	5720	2590	6000 ^(B)	1829
FS LP 3 ½" 750 (E)	3.48	88	4.11	104	0.106	2.7	0.096	2.4	2.12	3.16	103	262	7960	3610	4500 ^(B)	1372
FS LP 4" 750 (E)	3.99	101	4.68	119	0.122	3.1	0.109	2.8	2.72	4.05	117	297	10440	4730	4500 ^(C)	1372
FS LP 5" 750 (E)	4.75	121	5.57	141	0.150	3.8	0.135	3.4	3.86	5.74	139	353	15360	6960	2100 ^(C)	640
FS LP 5 ½" 750 (E)	5.20	132	6.16	157	0.157	4.0	0.141	3.6	4.84	7.20	154	391	17840	8090	1200 ^(C)	366
FS LP 6" 750 (E)	5.60	142	6.64	169	0.163	4.1	0.147	3.7	5.56	8.27	166	422	20040	9080	600 ^(C)	183

Series 1500

1500 psi (10.3 MPa) API 15S Nominal Pressure Rating (NPR)^(a)

Product & Size	Pipe Dimensions										Minimum Bending Radius		Short-Term Tensile Rating		Reel Capacity	
	Inside Diameter		Outside Diameter		Reinforced Wall Thickness		Min. Reinforced Wall Thickness		Pipe Weight							
	in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m	in	cm	lbf	kgf	ft	m
FS LP 2" 1,500 (E)	1.89	48	2.43	62	0.094	2.4	0.085	2.1	1.04	1.55	61	155	4000	1810	9000 ^(A)	2743
FS LP 2 ½" 1,500 (E)	2.37	60	2.99	76	0.113	2.9	0.102	2.6	1.50	2.24	75	191	5960	2700	6000 ^(A)	1829
FS LP 3" 1,500 (E)	2.82	72	3.52	90	0.134	3.4	0.121	3.1	2.06	3.07	88	224	8440	3820	4500 ^(A)	1372
FS LP 3 ½" 1,500 (E)	3.33	84	4.13	105	0.161	4.1	0.145	3.7	2.82	4.19	103	262	11920	5400	4500 ^(B)	1372
FS LP 4" 1,500 (E)	3.75	95	4.63	118	0.178	4.5	0.160	4.1	3.46	5.15	116	295	14880	6740	4500 ^(C)	1372
FS LP 5" 1,500 (E)	4.52	115	5.57	141	0.218	5.5	0.196	5.0	5.02	7.47	139	353	22040	9990	2100 ^(C)	640
FS LP 5 ½" 1,500 (E)	5.00	127	6.15	156	0.248	6.3	0.223	5.7	6.15	9.16	154	391	27720	12570	1200 ^(C)	366
FS LP 6" 1,500 (E)	5.60	142	6.80	173	0.244	6.2	0.220	5.6	7.02	10.45	170	432	30400	13780	600 ^(C)	183

Series 1500C

1500 psi (10.3 MPa) API 15S Nominal Pressure Rating (NPR)^(a)

Product & Size	Pipe Dimensions										Minimum Bending Radius		Short-Term Tensile Rating		Reel Capacity	
	Inside Diameter		Outside Diameter		Reinforced Wall Thickness		Min. Reinforced Wall Thickness		Pipe Weight							
	in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m	in	cm	lbf	kgf	ft	m
FS LPC 2" 1,500 (E)	1.89	48	2.46	63	0.111	2.8	0.100	2.5	1.15	1.71	62	157	4760	2150	9000 ^(A)	2743
FS LPC 2 ½" 1,500 (E)	2.37	60	3.04	77	0.140	3.5	0.126	3.2	1.72	2.55	76	193	7480	3390	9000 ^(B)	2743
FS LPC 3" 1,500 (E)	2.82	72	3.59	91	0.168	4.3	0.151	3.8	2.38	3.54	90	229	10680	4840	4500 ^(A)	1372
FS LPC 3 ½" 1,500 (E)	3.33	84	4.20	107	0.196	5.0	0.176	4.5	3.20	4.77	105	267	14680	6650	4500 ^(B)	1372
FS LPC 4" 1,500 (E)	3.75	95	4.71	120	0.220	5.6	0.198	5.0	3.98	5.93	118	300	18600	8430	3600 ^(C)	1097
FS LPC 5" 1,500 (E)	4.52	115	5.66	144	0.267	6.8	0.240	6.1	5.76	8.56	142	361	27240	12350	2100 ^(C)	640

E Series Continued

Series 2250

2250 psi (15.5 MPa) API 15S Nominal Pressure Rating (NPR)⁽²⁾

Product & Size	Pipe Dimensions										Minimum Bending Radius	Short-Term Tensile Rating		Reel Capacity			
	Inside Diameter		Outside Diameter		Reinforced Wall Thickness		Min. Reinforced Wall Thickness		Pipe Weight			in	cm	lbf	kgf	ft	m
	in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m							
FS LPC 2" 2,250 (E)	1.89	48	2.59	66	0.139	3.5	0.125	3.2	1.47	2.19	65	165	6240	2830	6000 ^(A)	1829	
FS LPC 3" 2,250 (E)	2.82	72	3.79	96	0.205	5.2	0.185	4.7	3.08	4.58	95	241	13680	6200	4500 ^(B)	1372	
FS LPC 4" 2,250 (E)	3.75	95	4.89	124	0.265	6.7	0.239	6.1	4.87	7.25	122	311	23040	10450	3000 ^(C)	914	
FS LP 4" 2,250 (E)	3.57	91	4.72	120	0.273	6.9	0.246	6.2	4.76	7.08	118	300	22800	10340	3000 ^(C)	914	

Series 2500

2500 psi (17.2 MPa) API 15S Nominal Pressure Rating (NPR)⁽²⁾

Product & Size	Pipe Dimensions										Minimum Bending Radius	Short-Term Tensile Rating		Reel Capacity			
	Inside Diameter		Outside Diameter		Reinforced Wall Thickness		Min. Reinforced Wall Thickness		Pipe Weight			in	cm	lbf	kgf	ft	m
	in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m							
FS LP 2" 2,500 (E)	1.89	48	2.68	68	0.181	4.6	0.163	4.1	1.76	2.62	67	170	8240	3730	6000 ^(A)	1829	
FS LP 2 ½" 2,500 (E)	2.37	60	3.31	84	0.223	5.7	0.200	5.1	2.65	3.94	83	211	12720	5760	4500 ^(A)	1372	
FS LP 3" 2,500 (E)	2.82	72	3.91	99	0.263	6.7	0.237	6.0	3.67	5.46	98	249	17880	8110	4500 ^(B)	1372	

Series 3500W⁽¹⁾

3500 psi (24.1 MPa) API 15S Nominal Pressure Rating (NPR)⁽²⁾

Product & Size	Pipe Dimensions										Minimum Bending Radius	Short-Term Tensile Rating		Reel Capacity			
	Inside Diameter		Outside Diameter		Reinforced Wall Thickness		Min. Reinforced Wall Thickness		Pipe Weight			in	cm	lbf	kgf	ft	m
	in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m							
FS LP 2" 3,500 (E)	1.89	48	2.68	68	0.181	4.6	0.163	4.1	1.76	2.62	67	170	8240	3730	6000 ^(A)	1829	
FS LP 2 ½" 3,500 (E)	2.37	60	3.31	84	0.223	5.7	0.200	5.1	2.65	3.94	83	211	12720	5760	4500 ^(A)	1372	
FS LP 3" 3,500 (E)	2.82	72	3.91	99	0.263	6.7	0.237	6.0	3.67	5.46	98	249	17880	8110	4500 ^(B)	1372	

X Series

Series 750

750 psi (5.2 MPa) API 15S Nominal Pressure Rating (NPR)⁽²⁾

Product & Size	Pipe Dimensions										Minimum Bending Radius	Short-Term Tensile Rating		Reel Capacity			
	Inside Diameter		Outside Diameter		Reinforced Wall Thickness		Min. Reinforced Wall Thickness		Pipe Weight			in	cm	lbf	kgf	ft	m
	in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m							
FS LP 2" 750 (X)	2.00	51	2.50	63	0.079	2.0	0.071	1.8	0.97	1.44	62	157	3480	1570	9000 ^(A)	2743	
FS LP 2 ½" 750 (X)	2.51	64	3.05	77	0.082	2.1	0.074	1.9	1.30	1.93	76	193	4480	2030	6000 ^(A)	1829	
FS LP 3" 750 (X)	2.96	75	3.53	90	0.089	2.3	0.080	2.0	1.63	2.43	88	224	5720	2590	6000 ^(B)	1829	
FS LP 3 ½" 750 (X)	3.48	88	4.11	104	0.106	2.7	0.096	2.4	2.12	3.16	103	262	7960	3610	4500 ^(B)	1372	
FS LP 4" 750 (X)	3.99	101	4.68	119	0.122	3.1	0.109	2.8	2.72	4.05	117	297	10440	4730	4500 ^(C)	1372	
FS LP 5" 750 (X)	4.75	121	5.57	141	0.150	3.8	0.135	3.4	3.86	5.74	139	353	15360	6960	2100 ^(C)	640	
FS LP 5 ½" 750 (X)	5.20	132	6.16	157	0.157	4.0	0.141	3.6	4.84	7.20	154	391	17840	8090	1200 ^(C)	366	
FS LP 6" 750 (X)	5.60	142	6.64	169	0.163	4.1	0.147	3.7	5.56	8.27	166	422	20040	9080	600 ^(C)	183	

Series 1500

1500 psi (10.3 MPa) API 15S Nominal Pressure Rating (NPR)⁽²⁾

Product & Size	Pipe Dimensions										Minimum Bending Radius	Short-Term Tensile Rating		Reel Capacity			
	Inside Diameter		Outside Diameter		Reinforced Wall Thickness		Min. Reinforced Wall Thickness		Pipe Weight			in	cm	lbf	kgf	ft	m
	in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m							
FS LP 2" 1,500 (X)	1.89	48	2.43	62	0.094	2.4	0.085	2.1	1.04	1.55	61	155	4000	1810	9000 ^(A)	2743	
FS LP 2 ½" 1,500 (X)	2.37	60	2.99	76	0.113	2.9	0.102	2.6	1.50	2.24	75	191	5960	2700	6000 ^(A)	1829	
FS LP 3" 1,500 (X)	2.82	72	3.52	90	0.134	3.4	0.121	3.1	2.06	3.07	88	224	8440	3820	4500 ^(A)	1372	
FS LP 3 ½" 1,500 (X)	3.33	84	4.13	105	0.161	4.1	0.145	3.7	2.82	4.19	103	262	11920	5400	4500 ^(B)	1372	
FS LP 4" 1,500 (X)	3.75	95	4.63	118	0.178	4.5	0.160	4.1	3.46	5.15	116	295	14880	6740	4500 ^(C)	1372	
FS LP 5" 1,500 (X)	4.52	115	5.57	141	0.218	5.5	0.196	5.0	5.02	7.47	139	353	22040	9990	2100 ^(C)	640	
FS LP 5 ½" 1,500 (X)	5.00	127	6.15	156	0.248	6.3	0.223	5.7	6.15	9.16	154	391	27720	12570	1200 ^(C)	366	
FS LP 6" 1,500 (X)	5.60	142	6.83	173	0.262	6.7	0.236	6.0	7.34	10.92	171	434	32720	14840	600 ^(C)	183	

Series 1500C

1500 psi (10.3 MPa) API 15S Nominal Pressure Rating (NPR)⁽²⁾

Product & Size	Pipe Dimensions										Minimum Bending Radius	Short-Term Tensile Rating		Reel Capacity			
	Inside Diameter		Outside Diameter		Reinforced Wall Thickness		Min. Reinforced Wall Thickness		Pipe Weight			in	cm	lbf	kgf	ft	m
	in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m							
FS LPC 2" 1,500 (X)	1.89	48	2.46	63	0.111	2.8	0.100	2.5	1.15	1.71	62	157	4760	2150	9000 ^(A)	2743	
FS LPC 2 ½" 1,500 (X)	2.37	60	3.04	77	0.140	3.5	0.126	3.2	1.72	2.55	76	193	7480	3390	9000 ^(B)	2743	
FS LPC 3" 1,500 (X)	2.82	72	3.59	91	0.168	4.3	0.151	3.8	2.38	3.54	90	229	10680	4840	4500 ^(A)	1372	
FS LPC 3 ½" 1,500 (X)	3.33	84	4.20	107	0.196	5.0	0.176	4.5	3.20	4.77	105	267	14680	6650	4500 ^(B)	1372	
FS LPC 4" 1,500 (X)	3.75	95	4.71	120	0.220	5.6	0.198	5.0	3.98	5.93	118	300	18600	8430	3600 ^(C)	1097	
FS LPC 5" 1,500 (X)	4.52	115	5.66	144	0.267	6.8	0.240	6.1	5.76	8.56	142	361	27240	12350	2100 ^(C)	640	

X Series Continued

Series 2250

2250 psi (15.5 MPa) API 15S Nominal Pressure Rating (NPR)⁽²⁾

Product & Size	Pipe Dimensions										Minimum Bending Radius	Short-Term Tensile Rating		Reel Capacity		
	Inside Diameter		Outside Diameter		Reinforced Wall Thickness		Min. Reinforced Wall Thickness		Pipe Weight							
	in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m						
FS LPC 2" 2,250 (E)	1.89	48	2.59	66	0.139	3.5	0.125	3.2	1.47	2.19	65	165	6240	2830	6000 ^(A)	1829
FS LPC 3" 2,250 (E)	2.82	72	3.79	96	0.205	5.2	0.185	4.7	3.08	4.58	95	241	13680	6200	4500 ^(B)	1372
FS LPC 4" 2,250 (E)	3.75	95	4.89	124	0.265	6.7	0.239	6.1	4.87	7.25	122	311	23040	10450	3000 ^(C)	914
FS LP 4" 2,250 (E)	3.57	91	4.72	120	0.273	6.9	0.246	6.2	4.76	7.08	118	300	22800	10340	3000 ^(C)	914

Series 2500

2500 psi (17.2 MPa) API 15S Nominal Pressure Rating (NPR)⁽²⁾

Product & Size	Pipe Dimensions										Minimum Bending Radius	Short-Term Tensile Rating		Reel Capacity		
	Inside Diameter		Outside Diameter		Reinforced Wall Thickness		Min. Reinforced Wall Thickness		Pipe Weight							
	in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m						
FS LP 2" 2,500 (X)	1.89	48	2.68	68	0.181	4.6	0.163	4.1	1.76	2.62	67	170	8240	3730	6000 ^(A)	1829
FS LP 2 ½" 2,500 (X)	2.37	60	3.31	84	0.223	5.7	0.200	5.1	2.65	3.94	83	211	12720	5760	4500 ^(A)	1372
FS LP 3" 2,500 (X)	2.82	72	3.91	99	0.263	6.7	0.237	6.0	3.67	5.46	98	249	17880	8110	4500 ^(B)	1372

Series 3500W⁽¹⁾

3300 psi (22.8 MPa) API 15S Nominal Pressure Rating (NPR)⁽²⁾

Product & Size	Pipe Dimensions										Minimum Bending Radius	Short-Term Tensile Rating		Reel Capacity		
	Inside Diameter		Outside Diameter		Reinforced Wall Thickness		Min. Reinforced Wall Thickness		Pipe Weight							
	in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m						
FS LP 2" 3,500 (X)	1.89	48	2.68	68	0.181	4.6	0.163	4.1	1.76	2.62	67	170	8240	3730	6000 ^(A)	1829
FS LP 2 ½" 3,500 (X)	2.37	60	3.31	84	0.223	5.7	0.200	5.1	2.65	3.94	83	211	12720	5760	4500 ^(A)	1372
FS LP 3" 3,500 (X)	2.82	72	3.91	99	0.263	6.7	0.237	6.0	3.67	5.46	98	249	17880	8110	4500 ^(B)	1372

XT Series⁽³⁾

Series 750

730 psi (5.0 MPa) API 15S Nominal Pressure Rating (NPR)⁽²⁾

Product & Size	Pipe Dimensions										Minimum Bending Radius	Short-Term Tensile Rating		Reel Capacity			
	Inside Diameter		Outside Diameter		Reinforced Wall Thickness		Min. Reinforced Wall Thickness		Pipe Weight			in	cm	lbf	kgf	ft	m
	in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m							
FS LP 2" 750 (XT)	2.00	51	2.50	63	0.079	2.0	0.071	1.8	0.98	1.45	62	157	3480	1570	9000 ^(A)	2743	
FS LP 2 ½" 750 (XT)	2.51	64	3.05	77	0.082	2.1	0.074	1.9	1.30	1.94	76	193	4480	2030	6000 ^(A)	1829	
FS LP 3" 750 (XT)	2.96	75	3.53	90	0.089	2.3	0.080	2.0	1.64	2.44	88	224	5720	2590	6000 ^(B)	1829	
FS LP 3 ½" 750 (XT)	3.48	88	4.11	104	0.106	2.7	0.096	2.4	2.14	3.18	103	262	7960	3610	4500 ^(B)	1372	
FS LP 4" 750 (XT)	3.99	101	4.68	119	0.122	3.1	0.109	2.8	2.74	4.08	117	297	10440	4730	4500 ^(C)	1372	
FS LP 5" 750 (XT)	4.75	121	5.57	141	0.150	3.8	0.135	3.4	3.89	5.79	139	353	15360	6960	2100 ^(C)	640	
FS LP 5 ½" 750 (XT)	5.20	132	6.16	157	0.157	4.0	0.141	3.6	4.87	7.25	154	391	17840	8090	1200 ^(C)	366	
FS LP 6" 750 (XT)	5.60	142	6.64	169	0.163	4.1	0.147	3.7	5.59	8.32	166	422	20040	9080	600 ^(C)	183	

Series 1500

1420 psi (9.8 MPa) API 15S Nominal Pressure Rating (NPR)⁽²⁾

Product & Size	Pipe Dimensions										Minimum Bending Radius	Short-Term Tensile Rating		Reel Capacity			
	Inside Diameter		Outside Diameter		Reinforced Wall Thickness		Min. Reinforced Wall Thickness		Pipe Weight			in	cm	lbf	kgf	ft	m
	in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m							
FS LP 2" 1,500 (XT)	1.89	48	2.43	62	0.094	2.4	0.085	2.1	1.05	1.56	61	155	4000	1810	9000 ^(A)	2743	
FS LP 2 ½" 1,500 (XT)	2.37	60	2.99	76	0.113	2.9	0.102	2.6	1.51	2.25	75	191	5960	2700	6000 ^(A)	1829	
FS LP 3" 1,500 (XT)	2.82	72	3.52	90	0.134	3.4	0.121	3.1	2.08	3.09	88	224	8440	3820	4500 ^(A)	1372	
FS LP 3 ½" 1,500 (XT)	3.33	84	4.13	105	0.161	4.1	0.145	3.7	2.84	4.22	103	262	11920	5400	4500 ^(B)	1372	
FS LP 4" 1,500 (XT)	3.75	95	4.63	118	0.178	4.5	0.160	4.1	3.49	5.19	116	295	14880	6740	4500 ^(C)	1372	
FS LP 5" 1,500 (XT)	4.52	115	5.57	141	0.218	5.5	0.196	5.0	5.02	7.47	139	353	22040	9990	2100 ^(C)	640	
FS LP 5 ½" 1,500 (XT)	5.00	127	6.15	156	0.248	6.3	0.223	5.7	6.20	9.23	154	391	27720	12570	1200 ^(C)	366	
FS LP 6" 1,500 (XT)	5.60	142	6.83	173	0.262	6.7	0.236	6.0	7.41	11.03	171	434	32720	14840	600 ^(C)	183	

Series 1500C

1420 psi (9.8 MPa) API 15S Nominal Pressure Rating (NPR)⁽²⁾

Product & Size	Pipe Dimensions										Minimum Bending Radius	Short-Term Tensile Rating		Reel Capacity			
	Inside Diameter		Outside Diameter		Reinforced Wall Thickness		Min. Reinforced Wall Thickness		Pipe Weight			in	cm	lbf	kgf	ft	m
	in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m							
FS LPC 2" 1,500 (XT)	1.89	48	2.46	63	0.111	2.8	0.100	2.5	1.16	1.73	62	157	4760	2150	9000 ^(A)	2743	
FS LPC 2 ½" 1,500 (XT)	2.37	60	3.04	77	0.140	3.5	0.126	3.2	1.73	2.57	76	193	7480	3390	9000 ^(B)	2743	
FS LPC 3" 1,500 (XT)	2.82	72	3.59	91	0.168	4.3	0.151	3.8	2.40	3.57	90	229	10680	4840	4500 ^(A)	1372	
FS LPC 3 ½" 1,500 (XT)	3.33	84	4.20	107	0.196	5.0	0.176	4.5	3.23	4.81	105	267	14680	6650	4500 ^(B)	1372	
FS LPC 4" 1,500 (XT)	3.75	95	4.71	120	0.220	5.6	0.198	5.0	4.02	5.98	118	300	18600	8430	3600 ^(C)	1097	
FS LPC 5" 1,500 (XT)	4.52	115	5.66	144	0.267	6.8	0.240	6.1	5.80	8.64	142	361	27240	12350	2100 ^(C)	640	

XT Series⁽³⁾ Continued

Series 2250

2125 psi (14.6 MPa) API 15S Nominal Pressure Rating (NPR)⁽²⁾

Product & Size	Pipe Dimensions										Minimum Bending Radius	Short-Term Tensile Rating		Reel Capacity		
	Inside Diameter		Outside Diameter		Reinforced Wall Thickness		Min. Reinforced Wall Thickness		Pipe Weight							
	in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m						in
FS LPC 2" 2,250 (E)	1.89	48	2.59	66	0.139	3.5	0.125	3.2	1.47	2.19	65	165	6240	2830	6000 ^(A)	1829
FS LPC 3" 2,250 (E)	2.82	72	3.79	96	0.205	5.2	0.185	4.7	3.08	4.58	95	241	13680	6200	4500 ^(B)	1372
FS LPC 4" 2,250 (E)	3.75	95	4.89	124	0.265	6.7	0.239	6.1	4.87	7.25	122	311	23040	10450	3000 ^(C)	914
FS LP 4" 2,250 (E)	3.57	91	4.72	120	0.273	6.9	0.246	6.2	4.76	7.08	118	300	22800	10340	3000 ^(C)	914

Series 2500

2370 psi (16.3 MPa) API 15S Nominal Pressure Rating (NPR)⁽²⁾

Product & Size	Pipe Dimensions										Minimum Bending Radius	Short-Term Tensile Rating		Reel Capacity		
	Inside Diameter		Outside Diameter		Reinforced Wall Thickness		Min. Reinforced Wall Thickness		Pipe Weight							
	in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m						in
FS LP 2" 2,500 (XT)	1.89	48	2.68	68	0.181	4.6	0.163	4.1	1.78	2.64	67	170	8240	3730	6000 ^(A)	1829
FS LP 2 1/2" 2,500 (XT)	2.37	60	3.31	84	0.223	5.7	0.200	5.1	2.67	3.98	83	211	12720	5760	4500 ^(A)	1372
FS LP 3" 2,500 (XT)	2.82	72	3.91	99	0.263	6.7	0.237	6.0	3.70	5.51	98	249	17880	8110	4500 ^(B)	1372

Series 3500W⁽¹⁾

3150 psi (21.7 MPa) API 15S Nominal Pressure Rating (NPR)⁽²⁾

Product & Size	Pipe Dimensions										Minimum Bending Radius	Short-Term Tensile Rating		Reel Capacity		
	Inside Diameter		Outside Diameter		Reinforced Wall Thickness		Min. Reinforced Wall Thickness		Pipe Weight							
	in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m						in
FS LP 2" 3,500 (XT)	1.89	48	2.68	68	0.181	4.6	0.163	4.1	1.78	2.64	67	170	8240	3730	6000 ^(A)	1829
FS LP 2 1/2" 3,500 (XT)	2.37	60	3.31	84	0.223	5.7	0.200	5.1	2.67	3.98	83	211	12720	5760	4500 ^(A)	1372
FS LP 3" 3,500 (XT)	2.82	72	3.91	99	0.263	6.7	0.237	6.0	3.70	5.51	98	249	17880	8110	4500 ^(B)	1372

⁽¹⁾ The Series 3500W products are currently for water service only. For other applications, consult NOV Fiber Glass Systems Engineering. These are factory hydro tested to 3,750psi and are limited to a field hydro test pressure of 1.0x Nominal Pressure Rating (NPR).

⁽²⁾ The API 15S Nominal Pressure Rating includes a manufacturer's recommended Fluid Service Factor (F_{fluid}). For other Service Factors, consult NOV Fiber Glass Systems Engineering.

⁽³⁾ Currently XT series is qualified for water service. For other applications, consult NOV Fiber Glass Systems Engineering.

E = High density polyethylene (HDPE) rated from -29°F to 140°F (-34°C to 60°C)

X = High temperature polyethylene (HTP) rated from -29°F to 180°F (-34°C to 82°C)

XT = High temperature polyethylene (HTP) rated from -29°F to 203°F (-34°C to 95°C)

Reel Size:

(A) = 12 feet

(B) = 14 feet

(C) = 16 feet

National Oilwell Varco has produced this brochure for general information only, and it is not intended for design purposes. Although every effort has been made to maintain the accuracy and reliability of its contents, National Oilwell Varco in no way assumes responsibility for liability for any loss, damage or injury resulting from the use of information and data herein nor is any warranty expressed or implied. Always cross-reference the bulletin date with the most current version listed at the web site noted in this literature.

© 2016 National Oilwell Varco All Rights Reserved
OG6000ENG October 2016

Fiber Glass Systems

17115 San Pedro Avenue, Ste 200
San Antonio, Texas 78232 USA
Phone: 210 477 7500
Fax: 210 477 7560



15HR-0037
API Q1 and ISO 9001 Registered