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APPROVED BY/APPROVED ON:

Baker Hughes Proprietary

STATIC 152.4 mm 62.053 MPa 2500 m 6 Inch Gas Injection Flowline Structure Number: WSI 152.2553-RD-4042-6 R1 S.I. Units Pipe Data Sheet, 152.2553-RD-4042-6 R1

Imm	Prepared by: Gustavo Dionisio		Checked by: Victor Carnauba		Approved b		
Flexbadry					Мах	•	
Flexbody Duplex 2205 152.40 8.40 169.20 18.855 Flexbarrier PA 12 Natural 169.20 10.00 189.20 5.742 Flextok Steel 100ksi YS 125ksi UTS 189.20 11.99 213.18 52.109 Flextape Tape PA 11 P20 30mil 213.18 1.52 216.22 1.076 Flextape Polypropylene 230.22 0.30 230.21 0.199 Flextape Polypropylene 230.81 2.03 234.87 1.932 Flextape Polypropylene 234.87 0.30 235.47 0.203 Flextape Polypropylene 234.87 0.30 235.47 0.203 Flextape Polypropylene 249.47 0.30 250.60 0.215 Flextape Polypropylene 249.47 0.30 250.47 0.203 Flextape Polypropylene 249.47 0.30 250.60 0.215 Flextape Polypropylene 254.12 0.30 254.11 0.219 Flextape Tape Polyester Fabric 255.53 7.00 269.53 5.642 Flextape Tape Polyester Fabric 276.53 0.41 277.34 0.236 Abrasion PE100 Grade GP100BK 277.34 7.00 291.34 Flextape Tape Polyester Fabric 276.53 0.41 277.34 0.236 Flextape Tape Polyester Fabric 276.53 0.41 277.34 0.206 Flextape Tape Polyester Fabric 276.53 0.41 277.34 0.206 Flextape Tape Polyester Fabr	Layer	Material		I.D.	Thick	O.D.	Weight
Flexbarrier PA 12 Natural Flexbok Steel 100ksi YS 125ksi UTS 189.20 11.99 213.18 52.109 Flextape Tape PA 11 P20 30mil 1213.18 1.52 216.22 1.076 Flextape Polypropylene 230.22 0.30 230.81 0.199 Flextape Polypropylene 230.22 0.30 230.81 0.199 Flextape Flextape Polypropylene 230.81 2.03 234.87 0.30 235.47 0.203 Flextape Polypropylene 234.87 0.30 235.47 0.203 Flextape Polypropylene 249.47 0.30 255.47 0.203 Flextape Polypropylene 249.47 0.30 250.06 0.215 Flextape Flextape Polypropylene 249.47 0.30 250.06 0.215 Flextape Flextape Flextape Flextape Flextape Flextape Flextape Polypropylene 254.12 0.30 254.12 0.209 Flextape Tape Polyester Fabric 254.12 0.30 254.11 0.219 Flextape Flextape Flextape Flextape Flextope Tape Polyester Fabric 255.53 0.217 Flexshield PE100 Grade GP100BK 255.53 0.217 Flexshield PE100 Grade GP100BK 277.34 0.236 Abrasion PE10				[mm]	[mm]	[mm]	[kg/m]
FlexIspe Tape PA 11 P20 30mil 213.18 52.109 Flextape Tape PA 11 P20 30mil 213.18 1.52 216.22 1.076 Flextape Pape PA 11 P20 30mil 213.18 1.52 216.22 1.076 Flextape Polypropylene 230.22 7.00 230.22 33.244 Flextape Polypropylene 230.22 0.30 230.81 0.199 Flextape High Strength Glass Flament 230.81 2.03 234.87 1.932 Flextape Polypropylene 234.87 0.30 235.47 0.203 Flextape Polypropylene 234.87 7.00 249.47 36.063 Flextape Polypropylene 249.47 7.00 250.06 0.215 Flextape Polypropylene 249.47 7.00 250.06 0.215 Flextape High Strength Glass Flament 250.06 2.03 254.12 2.092 Flextape Polypropylene 254.12 0.30 254.71 0.219 Flextape Polypropylene 254.71 0.41 255.53 0.217 Flextape Polypropylene 254.71 0.41 255.53 0.217 Flextape Polypropylene 254.71 0.41 255.53 0.217 Flextape Polyster Fabric 276.53 0.41 277.34 0.236 Abrasion PE100 Grade GP100BK 277.34 7.00 291.34 6.111 Layer Raw Material Dimensions Flextape Polyster Fabric 276.53 0.41 277.34 0.236 Flextape Tape Polyster Fabric 277.34 7.00 291.34 6.111 Layer Raw Material Dimensions Pe100 Grade GP100BK 277.34 7.00 291.34 6.111 Flextape Tape Polyster Fabric 277.34 7.00 291.34 6.111 Layer Raw Material Dimensions Pe100 Grade GP100BK 277.34 7.00 291.34 6.111 Flextape Tape Polyster Fabric 277.34 7.00 291.34 6.111 Layer Raw Material Dimensions Pe100 Grade GP100BK 277.34 7.00 291.34 6.111 Flextape Tape Polyster Fabric 277.34 7.00 291.34 6.111 Layer Raw Material Dimensions Pe100 Grade GP100BK 270 GP100BK 270 GP100BK 270 GP100BK 270 GP100BK 270 GP100BK 270	Flexbody	Duplex 2205		152.40	8.40	169.20	18.855
Flextape	Flexbarrier	PA 12 Natural		169.20	10.00	189.20	5.742
Flextape	Flexlok	Steel 100ksi YS 125ksi U	TS	189.20	11.99	213.18	52.109
Flextape High Strength Class Filament 230.22 0.30 230.81 0.199 Flextape High Strength Class Filament 230.81 2.03 234.87 1.932 Flextape Polypropylene 234.87 0.30 235.47 0.203 Flextape Polypropylene 234.87 0.30 235.47 0.203 Flextape Polypropylene 249.47 0.30 250.06 0.215 Flextape Polypropylene 249.47 0.30 250.06 0.215 Flextape High Strength Class Filament 250.06 2.03 254.12 2.092 Flextape Polypropylene 254.12 0.30 254.71 0.219 Flextape Tape Polyester Fabric 255.53 7.00 269.53 5.642 Flextape Tape Polyester Fabric 276.53 0.41 277.34 0.236 Abrasion PE100 Grade GP100BK 277.34 7.00 291.34 6.111 Layer Raw Material Dimensions Mfg Pitch Wires Angle Flextape Flextopely 55.0mm x 1.06mm 2.165tn x 0.063in 87.9 85.48% Flextensile 1 12.0mm x 7.0mm 0.472in x 0.276in 1079.8mm 46 33.0 96.90% Flextensile 1 12.0mm x 7.0mm 0.472in x 0.276in 1079.8mm 46 33.0 96.90% Flextensile 2 12.0mm x 7.0mm 0.472in x 0.276in 1079.8mm 46 33.0 96.90% Flextensile 2 12.0mm x 7.0mm 0.472in x 0.276in 1079.8mm 46 33.0 96.90% Flextensile 2 12.0mm x 7.0mm 0.472in x 0.276in 1079.8mm 46 33.0 96.90% Flextensile 3 1.89 m Volume (at ID) 20.095 l/m Storage Radius, OBR (Pry Bore)¹ 4.60 m Wt, Empty in Air 166.20 kg/m Operating Radius, OBR (Pry Bore)¹ 4.60 m Wt, Empty in Air 166.20 kg/m Pipe bending stiffness at 23 °C, El 40.412 kNm² Shy filled in S/W 118.74 kg/m Flox to Therm. Cond./Length, C/L 5.26 w/m² C Burst/Design 120.75 MPs Flextensile 4 0.54 w/m² C Burst/Design 120.75 MPs Spooling Tension 1.99 w/m² C Collapse Pressure (Wet Flexlok) 30.32 MPs SWDR with bore filled by SW 4.00 N/m mm Collapse/Design (Wet Flexlok) 30.32 MPs SWDR with bore filled by SW 4.00 N/m mm Collapse/Design (Wet Flexlok) 30.32 MPs SWDR with bore empty 3.30 N/m mm Collapse/Design (Wet Flexlok) 5913.1 kN	Flextape	Tape PA 11 P20 30mil		213.18	1.52	216.22	1.076
Flextape	Flextensile 1	0.7% C Steel 135ksi MYS	150 UTS	216.22	7.00	230.22	33.244
Flextape	Flextape	Polypropylene	230.22	0.30	230.81	0.199	
Flextansile 2	Flextape	High Strength Glass Filan	<mark>nent</mark>	230.81	2.03	234.87	1.932
Flextape	Flextape	Polypropylene		234.87	0.30	235.47	0.203
Flextape	Flextensile 2	0.7% C Steel 135ksi MYS	150 UTS	235.47	7.00	249.47	36.063
Flextape	Flextape	Polypropylene		249.47	0.30	250.06	0.215
Flextape	Flextape	High Strength Glass Filan	nent	250.06	2.03	254.12	2.092
Flexheld PE100 Grade GP100BK 255.53 7.00 269.53 5.642	Flextape	Polypropylene		254.12	0.30	254.71	0.219
Flexinsul	Flextape	Tape Polyester Fabric		254.71	0.41	255.53	0.217
Tape Polyester Fabric 276.53 0.41 277.34 0.236	Flexshield	PE100 Grade GP100BK		255.53	7.00	269.53	5.642
Abrasion PE100 Grade GP100BK 277.34 7.00 291.34 6.111	Flexinsul	PT7000 Insulation (Reinfo	orcing Layer)	269.53	3.50	276.53	2.048
Layer Raw Material Dimensions Mfg Pitch Wires Angle Filled	Flextape	Tape Polyester Fabric		276.53	0.41	277.34	0.236
Flexbody 55.0mm x 1.6mm 2.165in x 0.063in 87.9 85.48%	Abrasion	PE100 Grade GP100BK		277.34	7.00	291.34	6.111
Flexlok (Profile H) 27.3mm x 12.0mm 1.076in x 0.472in 88.2 91.96%	Layer	Raw Material	Dimensions	Mfg Pitch	Wires	Angle	Filled
Flextensile 1	Flexbody	55.0mm x 1.6mm	2.165in x 0.063in			87.9	85.48%
Flextensile 2 12.0mm x 7.0mm 0.472in x 0.276in 1267.7mm 51 31.0 96.52% Flexinsul 50.8mm x 3.5mm 2.000in x 0.138in 90.60% Outside Diameter 291.34 mm Volume (at OD) 66.381 l/m Storage Radius, SBR 1.89 m Volume (at ID) 20.095 l/m Operating Radius, OBR (Dry Bore)¹ 4.60 m Wt, Empty in Air 166.20 kg/m Operating Radius, OBR (Flooded Bore)² 2.40 m S/W filled in Air 186.81 kg/m Pipe bending stiffness at 23 °C, El 40.412 kNm² Air filled in S/W 98.14 kg/m Spooling Tension 11292 N S/W filled in S/W 118.74 kg/m Therm. Cond./Length, C/L 5.26 w/m°C Burst Pressure 120.75 MPa Effective Thermal Cond, ke 0.54 w/m°C Burst/Design 1.95 OHTC, Uo {based on ID} 10.99 w/m²°C Collapse Pressure (Wet Flexlok) 30.32 MPa SWDR with bore empty 3.30 N/m mm Collapse/Design (Wet Flexlok) 3.15 m SWDR with bore filled by SW 4.00 N/m mm Collapse/Design (Wet Flexlok) 5913.1 kN	Flexlok (Profile H)	27.3mm x 12.0mm	1.076in x 0.472in			88.2	91.96%
Flexinsul 50.8mm x 3.5mm 2.000in x 0.138in 90.60% Outside Diameter 291.34 mm Volume (at OD) 66.381 l/m Storage Radius, SBR 1.89 m Volume (at ID) 20.095 l/m Operating Radius, OBR (Dry Bore)¹ 4.60 m Wt, Empty in Air 166.20 kg/m Operating Radius, OBR (Flooded Bore)² 2.40 m S/W filled in Air 186.81 kg/m Pipe bending stiffness at 23 °C, El 40.412 kNm² Air filled in S/W 98.14 kg/m Spooling Tension 11292 N S/W filled in S/W 118.74 kg/m Therm. Cond./Length, C/L 5.26 w/m°C Burst Pressure 120.75 MPa Effective Thermal Cond, ke 0.54 w/m°C Burst/Design 1.95 OHTC, Uo {based on ID} 10.99 w/m²°C Collapse Pressure (Wet Flexlok) 30.32 MPa SWDR with bore empty 3.30 N/m mm Collapse Depth (Wet Flexlok) 3015 m SWDR with bore filled by SW 4.00 N/m mm Collapse/Design (Wet Flexlok) 1.21 Failure Tension 5913.1 kN Limp direction 3559 kNm²	Flextensile 1	12.0mm x 7.0mm	0.472in x 0.276in	1079.8mm	46	33.0	96.90%
Outside Diameter 291.34 mm Volume (at OD) 66.381 l/m Storage Radius, SBR 1.89 m Volume (at ID) 20.095 l/m Operating Radius, OBR (Dry Bore)¹ 4.60 m Wt, Empty in Air 166.20 kg/m Operating Radius, OBR (Flooded Bore)² 2.40 m S/W filled in Air 186.81 kg/m Pipe bending stiffness at 23 °C, El 40.412 kNm² Air filled in S/W 98.14 kg/m Spooling Tension 11292 N S/W filled in S/W 118.74 kg/m Therm. Cond./Length, C/L 5.26 w/m°C Burst Pressure 120.75 MPa Effective Thermal Cond, ke 0.54 w/m°C Burst/Design 1.95 OHTC, Uo {based on ID} 10.99 w/m²°C Collapse Pressure (Wet Flexlok) 30.32 MPa SWDR with bore empty 3.30 N/m mm Collapse Depth (Wet Flexlok) 30.15 m SWDR with bore filled by SW 4.00 N/m mm Collapse/Design (Wet Flexlok) 5913.1 kN Limp direction 1685 kNm² 3559 kNm²	Flextensile 2	12.0mm x 7.0mm	0.472in x 0.276in	1267.7mm	51	31.0	96.52%
Storage Radius, SBR Operating Radius, OBR (Dry Bore)¹ 4.60 m Wt, Empty in Air 166.20 kg/m Operating Radius, OBR (Flooded Bore)² 2.40 m S/W filled in Air 186.81 kg/m Air filled in S/W Spooling Tension 11292 N S/W filled in S/W 118.74 kg/m Therm. Cond./Length, C/L 5.26 w/m°C Burst Pressure 120.75 MPa Effective Thermal Cond, ke 0.54 w/m°C OHTC, Uo {based on ID} SWDR with bore empty 3.30 N/m mm SWDR with bore filled by SW Pipe torsional stiffness (GJ) at 23 °C: Limp direction 1.89 m Volume (at ID) 20.095 l/m Vt, Empty in Air 166.20 kg/m Wt, Empty in Air 166.20 kg/m OH, Empty in Air 166.20 kg/m Collapie in Air 186.81 kg/m S/W filled in S/W 98.14 kg/m Collapse Pressure 120.75 MPa Collapse Pressure (Wet Flexlok) 30.32 MPa Collapse Depth (Wet Flexlok) 1.21 Failure Tension 5913.1 kN Stiff direction 3559 kNm²	Flexinsul	50.8mm x 3.5mm	2.000in x 0.138in				90.60%
Operating Radius, OBR (Dry Bore)¹ Operating Radius, OBR (Flooded Bore)² 2.40 m S/W filled in Air 166.20 kg/m Pipe bending stiffness at 23 °C, El 40.412 kNm² Air filled in S/W Spooling Tension 11292 N S/W filled in S/W 118.74 kg/m Therm. Cond./Length, C/L 5.26 w/m°C Burst Pressure 120.75 MPa Effective Thermal Cond, ke 0.54 w/m°C OHTC, Uo {based on ID} 10.99 w/m²°C Collapse Pressure (Wet Flexlok) 30.32 MPa SWDR with bore empty 3.30 N/m mm SWDR with bore filled by SW 4.00 N/m mm Collapse/Design (Wet Flexlok) 1.21 Failure Tension 5913.1 kN Stiff direction 3559 kNm²	Outside Diameter		291.34 mm	Volume (at OD)		66.381 l/m	
Operating Radius, OBR (Flooded Bore)² 2.40 m Pipe bending stiffness at 23 °C, El 40.412 kNm² Air filled in S/W 98.14 kg/m 98.14 kg/m 7	Storage Radius, SBR		1.89 m	Volume (at ID)		20.095 l/m	
Pipe bending stiffness at 23 °C, EI 40.412 kNm² Air filled in S/W 98.14 kg/m 98.14 kg/m 11292 N S/W filled in S/W 118.74 kg/m 11292 N S/W filled in S/W 118.74 kg/m 120.75 MPa Effective Thermal Cond, ke 0.54 w/m°C Burst/Design 1.95 OHTC, Uo {based on ID} 10.99 w/m²°C Collapse Pressure (Wet Flexlok) 30.32 MPa SWDR with bore empty 3.30 N/m mm Collapse Depth (Wet Flexlok) SWDR with bore filled by SW 4.00 N/m mm Collapse/Design (Wet Flexlok) 1.21 Failure Tension 5913.1 kN Stiff direction 3559 kNm²	Operating Radius, OBR (Dry Bore) ¹		4.60 m	Wt, Empty in Air		166.20 kg/m	
Spooling Tension 11292 N S/W filled in S/W 118.74 kg/m Therm. Cond./Length, C/L 5.26 w/m°C Burst Pressure 120.75 MPa 1	Operating Radius, OBR (Flooded Bore) ²		2.40 m	S/W filled	in Air		186.81 kg/m
Therm. Cond./Length, C/L Effective Thermal Cond, ke O.54 w/m°C Burst/Design 1.95 OHTC, Uo {based on ID} 10.99 w/m²°C Collapse Pressure (Wet Flexlok) SWDR with bore empty 3.30 N/m mm Collapse Depth (Wet Flexlok) 30.32 MPa Collapse Depth (Wet Flexlok) 30.15 m Collapse/Design (Wet Flexlok) 1.21 Failure Tension 5913.1 kN Stiff direction 3559 kNm²	Pipe bending stiffness at 23 °C, El		40.412 kNm²	Air filled in S/W		98.14 kg/m	
Effective Thermal Cond, ke 0.54 w/m°C Burst/Design 1.95 OHTC, Uo {based on ID} 10.99 w/m²°C Collapse Pressure (Wet Flexlok) 30.32 MPa SWDR with bore empty 3.30 N/m mm Collapse Depth (Wet Flexlok) 3015 m SWDR with bore filled by SW 4.00 N/m mm Collapse/Design (Wet Flexlok) 1.21 Pipe torsional stiffness (GJ) at 23 °C: Failure Tension 5913.1 kN Limp direction 3559 kNm²	Spooling Tension		11292 N	S/W filled in S/W		118.74 kg/m	
OHTC, Uo {based on ID} 10.99 w/m²°C Collapse Pressure (Wet Flexlok) 30.32 MPa 30.32 MPa 30.32 MPa Collapse Depth (Wet Flexlok) 30.32 MPa Collapse Depth (Wet Flexlok) Collapse/Design (Wet Flexlok) 1.21 Pipe torsional stiffness (GJ) at 23 °C: Limp direction 1685 kNm² Stiff direction 3559 kNm²	Therm. Cond./Length, C/L		5.26 w/m°C	Burst Pressure		120.75 MPa	
SWDR with bore empty 3.30 N/m mm Collapse Depth (Wet Flexlok) 3015 m Collapse/Design (Wet Flexlok) 1.21 Pipe torsional stiffness (GJ) at 23 °C: Failure Tension 5913.1 kN Stiff direction 3559 kNm²	Effective Thermal Cond, ke		0.54 w/m°C	Burst/Design			1.95
SWDR with bore filled by SW 4.00 N/m mm Collapse/Design (Wet Flexlok) 1.21 Pipe torsional stiffness (GJ) at 23 °C: Failure Tension 5913.1 kN Limp direction 1685 kNm² Stiff direction 3559 kNm²	OHTC, Uo {based on ID}		10.99 w/m ² °C	Collapse Pressure (Wet Flexlok)			30.32 MPa
Pipe torsional stiffness (GJ) at 23 °C:Failure Tension5913.1 kNLimp direction1685 kNm²Stiff direction3559 kNm²	SWDR with bore empty		3.30 N/m mm	Collapse Depth (Wet Flexlok)			3015 m
Limp direction 1685 kNm² Stiff direction 3559 kNm²	SWDR with bore filled by SW		4.00 N/m mm	Collapse/Design (Wet Flexlok)			1.21
Stiff direction 3559 kNm²	Pipe torsional stiffr	ness (GJ) at 23 °C:		Failure Te	nsion		5913.1 kN
	Limp direction		1685 kNm²				
Axial Stiffness 563380 kN	Stiff direction		3559 kNm²				
	Axial Stiffness		563380 kN				

Notes

Pipe Data Sheet revised to adjust correct Spooling Tension value. No structural/layer change.

¹OBR (MBR) increased to comply with internal carcass design criteria (0.85) for bent collapse failure mode.

²OBR (MBR) for pipe flooded condition in order to comply with Petrobras tensile armour design criteria (0.67) for tensile buckling failure mode.

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APPROVED BY/APPROVED ON:

Baker Hughes Proprietary

STATIC 6 in 9000 psi 8202.1 ft 6 Inch Gas Injection Flowline Structure Number: WSI 152.2553-RD-4042-6 R1 U. S. Units Pipe Data Sheet, 152.2553-RD-4042-6 R1

Prepared by: Gustavo Dionisio Checked by: Victor Carnauba Approved by: Igor Pereira **Inside Diameter** 6 in Service Static Max. Fluid Temp. 194 °F **Design Pressure** 9000 psi Conveyed Fluid Gas Water Depth 8202.1 ft Layer Material I.D. **Thick** O.D. Weight [in] [in] [in] [lbm/ft] Duplex 2205 6.000 0.331 6.661 Flexbody 12.670 Flexbarrier PA 12 Natural 6.661 0.394 7.449 3.859 Steel 100ksi YS 125ksi UTS Flexlok 7 449 0.472 8.393 35.015 Flextape Tape PA 11 P20 30mil 8.393 0.060 8.513 0.723 0.7% C Steel 135ksi MYS 150 UTS Flextensile 1 8.513 0.276 9.064 22 339 Polypropylene 9.064 0.012 9.087 0.134 Flextape 9.087 0.080 Flextape High Strength Glass Filament 9 247 1 298 Polypropylene 9.247 0.012 9.270 0.136 Flextape 0.7% C Steel 135ksi MYS 150 UTS 9.270 0.276 9.821 24.233 Flextensile 2 Flextape Polypropylene 9.821 0.012 9.845 0.145 High Strength Glass Filament 9.845 0.080 10.005 1.406 Flextape Flextape Polypropylene 10.005 0.012 10.028 0.147 Flextape Tape Polyester Fabric 10.028 0.016 10.060 0 146 Flexshield PE100 Grade GP100BK 10.060 0.276 10.611 3.791 Flexinsul PT7000 Insulation (Reinforcing Layer) 10.611 0.138 10.887 1.376 Flextape Tape Polyester Fabric 10.887 0.016 10.919 0.159 Abrasion PE100 Grade GP100BK 10.919 0.276 11.470 4.106 Layer **Raw Material Dimensions** Mfg Pitch Wires Filled Angle Flexbody 55.0mm x 1.6mm 2.165in x 0.063in 87.9 85.48% Flexlok (Profile H) 27.3mm x 12.0mm 1.076in x 0.472in 88.2 91.96% 42.51in Flextensile 1 12.0mm x 7.0mm 0.472in x 0.276in 46 33.0 96.90% Flextensile 2 12.0mm x 7.0mm 0.472in x 0.276in 49.91in 51 31.0 96.52% **Flexinsul** 50.8mm x 3.5mm 2.000in x 0.138in 90.60% **Outside Diameter** 11.470 in Volume (at OD) 0.715 ft3/ft Storage Radius, SBR 0.216 ft3/ft 6.21 ft Volume (at ID) Operating Radius, OBR (Dry Bore)1 15.09 ft Wt, Empty in Air 111.68 lb/ft Operating Radius, OBR (Flooded Bore)2 7.87 ft S/W filled in Air 125.53 lb/ft Pipe bending stiffness at 23 °C, EI 97791 lbf ft² Air filled in S/W 65.95 lb/ft **Spooling Tension** 2538 lbf S/W filled in S/W 79.79 lb/ft Therm. Cond./Length, C/L 3.04 BTU/hrft°F **Burst Pressure** 17514 psi Effective Thermal Cond, ke 0.31 BTU/hrft°F Burst/Design 1.95 1.94 BTU/hrft2°F OHTC, Uo {based on ID} Collapse Pressure (Wet Flexlok) 4398 psi Collapse Depth (Wet Flexlok) SWDR with bore empty 5.749 lbf/ft in 9893 ft SWDR with bore filled by SW 6.957 lbf/ft in Collapse/Design (Wet Flexlok) 1.21 Pipe torsional stiffness (GJ) at 23 °C: **Failure Tension** 1329318 lbf Limp direction 4077 Kip ft² Stiff direction 8612 Kip ft² **Axial Stiffness** 126653 Kip

Notes

Pipe Data Sheet revised to adjust correct Spooling Tension value. No structural/layer change.

¹OBR (MBR) increased to comply with internal carcass design criteria (0.85) for bent collapse failure mode.

²OBR (MBR) for pipe flooded condition in order to comply with Petrobras tensile armour design criteria (0.67) for tensile buckling failure mode.