[APPLICATIONS]

- *Flow Lines*
- *Injection Lines*
- *Gas Gathering & Transport Lines*
- *Recirculating Lines*
- *Solution Mining*
- *Water Processing*

Centron® SP Series Surface Pipe, with its unique high strength threaded joint, makes it the choice for corrosive oil field and other demanding fluid transport applications requiring low to high pressure 1–1/2 to 6 inch pipe. Centron's Quality System is certified to API Specification Q1 and ISO 9001, assuring customers of the highest quality products in the industry.

JOINING SYSTEM FEATURES >

- Multiple seal for high reliability — threads and O-ring
- Coarse threads (4 threads per inch) — no cross threading — hi-strength. No thrust blocks required
- Patented non-galling, composite threads available
- Make-up to specified torque or position
- No special tools required for installation

FEATURES >

- Balanced filament wound construction using only the highest quality raw materials and modern manufacturing equipment
- Centron's complete line of fittings and adapters have the same safety factors as the pipe and are manufactured with the same high quality raw materials to provide complete reliability throughout the pipeline system.

ADVANTAGES >

- About 1/4 the weight of steel
- Assemble in any weather—no adhesive required
- Superior flow characteristics
- Coarse threads—no cross threading
- Excellent corrosion resistance
- Exceptional pressure capabilities
- Low installation costs
- Low paraffin and scale build-up. For additional protection, an enhanced paraffin resistance option is available.

15LR-0007
15HR-0003

Centron International Inc. manufactures a complete line of fiberglass surface pipe, line pipe, tubing, casing and associated fittings. See your Centron distributor or call Centron International Inc. for all your fiberglass tubular product needs.

Physical Specifications

Nominal Size Inches (mm)	Series/Static Pressure Rating @ 100°F (38°C)	Static Pressure Rating (psi) 125°F (52°C)	150°F (65°C)	180°F (82°C)	Nominal O.D. Inches (mm)	Nominal I.D. Inches (mm)	Nominal Wall Thickness Inches (mm)	Nominal Box O.D. Inches (mm)	Weight lbs./ft. (kg/M)
1½ (40)	SP 1250	1150	1050	900	1.76 (44.7)	1.6 (40.6)	0.080 (2.0)	2.8 (70.1)	0.36 (0.53)
	SP 1500	1400	1250	1100	1.79 (45.5)	1.6 (40.6)	0.095 (2.4)	2.9 (72.6)	0.43 (0.64)
	SP 2000	1850	1650	1450	1.86 (47.2)	1.6 (40.6)	0.130 (3.3)	3.0 (76.5)	0.60 (0.89)
	SP 2500	2300	2100	1850	1.92 (48.8)	1.6 (40.6)	0.160 (4.1)	3.2 (81.7)	0.75 (1.11)
	SP 3000	2750	2500	2200	2.00 (50.8)	1.6 (40.6)	0.200 (5.1)	3.4 (85.6)	0.96 (1.42)
	SP 3500	3200	2900	2550	2.07 (52.6)	1.6 (40.6)	0.235 (6.0)	3.6 (90.8)	1.14 (1.71)
2 (50)	SP 1000	900	850	750	2.11 (53.6)	1.95 (49.5)	0.080 (2.0)	3.1 (77.7)	0.43 (0.64)
	SP 1250	1150	1050	900	2.14 (54.4)	1.95 (49.5)	0.095 (2.4)	3.2 (80.3)	0.52 (0.77)
	SP 1500	1400	1250	1100	2.18 (55.4)	1.95 (49.5)	0.115 (2.9)	3.3 (82.9)	0.63 (0.94)
	SP 2000	1850	1650	1450	2.26 (57.4)	1.95 (49.5)	0.155 (3.9)	3.5 (88.0)	0.87 (1.29)
	SP 2500	2300	2100	1850	2.34 (59.4)	1.95 (49.5)	0.195 (5.0)	3.7 (93.2)	1.11 (1.65)
	SP 3000	2750	2500	2200	2.43 (61.7)	1.95 (49.5)	0.240 (6.1)	3.9 (99.7)	1.39 (12.08)
	SP 3500	3200	2900	2550	2.51 (63.8)	1.95 (49.5)	0.280 (7.1)	4.1 (104.9)	1.66 (2.47)
2½ (65)	SP 800	750	650	600	2.64 (67.1)	2.48 (63.0)	0.080 (2.0)	3.7 (94.4)	0.54 (0.81)
	SP 1000	900	850	750	2.67 (67.8)	2.48 (63.0)	0.095 (2.4)	3.8 (97.0)	0.65 (0.97)
	SP 1250	1150	1050	900	2.72 (69.1)	2.48 (63.0)	0.120 (3.0)	3.9 (99.6)	0.83 (1.23)
	SP 1500	1400	1250	1100.	2.77 (70.4)	2.48 (63.0)	0.145 (3.7)	4.1 (103.5)	1.01 (1.51)
	SP 2000	1850	1650	1450	2.87 (72.9)	2.48 (63.0)	0.195 (5.0)	4.3 (110.0)	1.38 (2.06)
	SP 2500	2300	2100	1850	2.98 (75.7)	2.48 (63.0)	0.250 (6.4)	4.6 (117.8)	1.81 (2.70)
	SP 3000	2750	2500	2200	3.08 (78.2)	2.48 (63.0)	0.300 (7.6)	4.9 (124.2)	2.21 (23.30)
	SP 3500	3200	2900	2550	3.18 (80.8)	2.48 (63.0)	0.350 (8.9)	5.2 (132.0)	2.63 (3.92)
3 (75)	SP 800	750	650	600	3.16 (80.3)	2.98 (75.7)	0.090 (2.3)	4.4 (112.6)	0.73 (1.09)
	SP 1000	900	850	750	3.21 (81.5)	2.98 (75.7)	0.115 (2.9)	4.5 (115.2)	0.94 (1.41)
	SP 1250	1150	1050	900	3.27 (83.1)	2.98 (75.7)	0.145 (3.7)	4.7 (119.1)	1.20 (1.79)
	SP 1500	1400	1250	1100	3.33 (84.6)	2.98 (75.7)	0.175 (4.4)	4.8 (123.0)	1.47 (2.18)
	SP 2000	1850	1650	1450	3.45 (87.6)	2.98 (75.7)	0.235 (6.0)	5.1 (130.9)	2.01 (2.99)
	SP 2500	2300	2100	1850	3.57 (90.7)	2.98 (75.7)	0.295 (7.5)	5.5 (139.9)	2.56 (3.82)
	SP 3000	2750	2500	2200	3.69 (93.7)	2.98 (75.7)	0.355 (9.0)	5.8 (147.6)	3.14 (4.68)
4 (100)	SP 500	450	400	350	4.14 (105.2)	3.98 (101.1)	0.080 (2.0)	5.3 (135.5)	0.86 (1.28)
	SP 800	750	650	600	4.22 (107.2)	3.98 (101.1)	0.120 (3.0)	5.6 (141.9)	1.31 (1.95)
	SP 1000	900	850	750	4.29 (109.0)	3.98 (101.1)	0.155 (3.9)	5.7 (145.8)	1.70 (2.53)
	SP 1250	1150	1050	900	4.37 (111.0)	3.98 (101.1)	0.195 (5.0)	5.9 (151.0)	2.16 (3.22)
	SP 1500	1400	1250	1100	4.44 (112.8)	3.98 (101.1)	0.230 (5.8)	6.1 (156.2)	2.57 (3.83)
5 (125)	SP 500	450	400	350	5.04 (128.0)	4.85 (123.2)	0.095 (2.4)	6.2 (158.5)	1.25 (1.86)
	SP 800	750	650	600	5.15 (130.8)	4.85 (123.2)	0.150 (3.8)	6.5 (165.0)	1.99 (2.97)
	SP 1000	900	850	750	5.22 (132.6)	4.85 (123.2)	0.185 (4.7)	6.7 (170.2)	2.47 (3.68)
	SP 1250	1150	1050	900	5.32 (135.1)	4.85 (123.2)	0.235 (6.0)	7.0 (176.6)	3.17 (4.73)
	SP 1500	1400	1250	1100	5.41 (137.4)	4.85 (123.2)	0.280 (7.1)	7.2 (183.1)	3.81 (5.68)
6 (150)	SP 500	450	400	350	6.64 (168.7)	6.4 (162.6)	0.120 (3.0)	8.2 (208.0)	2.08 (3.09)
	SP 800	750	650	600	6.79 (172.5)	6.4 (162.6)	0.195 (5.0)	8.5 (217.0)	3.41 (5.09)
	SP 1000	900	850	750	6.89 (175.0)	6.4 (162.6)	0.245 (6.2)	8.8 (223.5)	4.32 (6.44)

1. *Pipe Ratings are based on currently available long term and other test data. In all cases, chemical compatibility must be considered along with all other known operating conditions in selecting the proper piping system for a given service.*
2. *Joint length: 29.5 feet (9.0 M).*
3. *Make-up length 29.12 feet (8.87 M).*
4. *For 4" and 6" sizes, higher pressure ratings are available with SPH thread.*

Nominal Size Inches (mm)	Series/Static[1] Pressure Rating @ 100°F (38°C)	Minimum Bend Radius Ft (M)	Offset per joint Inches (M)	Support Spacing Ft (M)	Axial Thread Load	Ultimate External Collapse Pressure PSI (MPa)	Minimum[2] Box O.D. Inches (mm)
1 1/2 (40)	SP 1250	88 (26.8)	61 (1.6)	8 (2.44)	35,000 lbs. (15,900 Kg)	751 (5.2)	2.47 (62.7)
	SP 1500	89 (27.3)	60 (1.5)	8 (2.44)	35,000 lbs. (15,900 Kg)	1196 (8.2)	2.50 (63.5)
	SP 2000	93 (28.3)	58 (1.5)	8 (2.44)	35,000 lbs. (15,900 Kg)	2731 (18.8)	2.56 (65.0)
	SP 2500	96 (29.3)	56 (1.4)	8 (2.44)	35,000 lbs. (15,900 Kg)	4630 (31.9)	2.62 (66.5)
	SP 3000	100 (30.5)	54 (1.4)	8 (2.44)	35,000 lbs. (15,900 Kg)	8000 (55.2)	2.69 (68.3)
	SP 3500	103 (31.5)	52 (1.4)	8 (2.44)	35,000 lbs. (15,900 Kg)	11705 (80.7)	2.75 (69.9)
2 (50)	SP 1000	105 (32.2)	51 (1.3)	8 (2.44)	45,000 lbs. (20,400 Kg)	436 (3.0)	2.79 (70.9)
	SP 1250	107 (32.6)	50 (1.3)	8 (2.44)	45,000 lbs. (20,400 Kg)	700 (4.8)	2.82 (71.6)
	SP 1500	109 (33.2)	50 (1.3)	8 (2.44)	45,000 lbs. (20,400 Kg)	1174 (8.1)	2.86 (72.6)
	SP 2000	113 (34.4)	48 (1.2)	9 (2.74)	45,000 lbs. (20,400 Kg)	2581 (17.8)	2.93 (74.4)
	SP 2500	117 (35.7)	46 (1.2)	9 (2.74)	45,000 lbs. (20,400 Kg)	4630 (31.9)	3.01 (76.5)
	SP 3000	121 (37.0)	44 (1.1)	9 (2.74)	45,000 lbs. (20,400 Kg)	7707 (53.1)	3.09 (78.5)
	SP 3500	152 (38.3)	43 (1.1)	9 (2.74)	45,000 lbs. (20,400 Kg)	11106 (76.6)	3.17 (80.5)
2 1/2 (65)	SP 800	132 (40.2)	41 (1.0)	9 (2.74)	58,000 lbs. (26,300 Kg)	223 (1.5)	3.45 (87.6)
	SP 1000	133 (40.7)	40 (1.0)	9 (2.74)	58,000 lbs. (26,300 Kg)	360 (2.5)	3.49 (88.6)
	SP 1250	136 (41.5)	40 (1.0)	10 (3.05)	58,000 lbs. (26,300 Kg)	687 (4.7)	3.53 (89.7)
	SP 1500	138 (42.2)	39 (1.0)	10 (3.05)	58,000 lbs. (26,300 Kg)	1148 (7.2)	3.58 (90.9)
	SP 2000	143 (43.7)	38 (1.0)	10 (3.05)	58,000 lbs. (26,300 Kg)	2509 (17.3)	3.67 (93.2)
	SP 2500	149 (45.4)	36 (0.9)	10 (3.05)	58,000 lbs. (26,300 Kg)	4723 (32.6)	3.77 (95.8)
	SP 3000	154 (46.9)	35 (0.9)	10 (3.05)	58,000 lbs. (26,300 Kg)	7393 (51.0)	3.87 (98.3)
	SP 3500	159 (48.5)	34 (0.9)	10 (3.05)	58,000 lbs. (26,300 Kg)	10666 (73.5)	3.97 (100.8)
3 (75)	SP 800	158 (48.2)	34 (0.9)	10 (3.05)	70,000 lbs. (31,899 Kg)	185 (1.3)	4.09 (103.9)
	SP 1000	160 (48.9)	34 (0.9)	10 (3.05)	70,000 lbs. (31,899 Kg)	368 (2.5)	4.14 (105.2)
	SP 1250	163 (49.8)	33 (0.8)	10 (3.05)	70,000 lbs. (31,899 Kg)	698 (4.8)	4.19 (106.4)
	SP 1500	166 (50.7)	32 (0.8)	10 (3.05)	70,000 lbs. (31,899 Kg)	1161 (8.0)	4.24 (107.7)
	SP 2000	172 (52.6)	31 (0.8)	11 (3.35)	70,000 lbs. (31,899 Kg)	2528 (17.4)	4.36 (110.7)
	SP 2500	178 (54.4)	30 (0.8)	11 (3.35)	70,000 lbs. (31,899 Kg)	4514 (31.1)	4.47 (113.5)
	SP 3000	184 (56.2)	29 (0.7)	11 (3.35)	70,000 lbs. (31,899 Kg)	7124 (49.1)	4.59 (116.6)
4 (100)	SP 500	207 (63.1)	26 (0.7)	12 (3.66)	90,000 lbs. (40,800 Kg)	58 (0.4)	5.07 (128.8)
	SP 800	211 (64.3)	26 (0.6)	12 (3.66)	90,000 lbs. (40,800 Kg)	184 (1.3)	5.15 (130.8)
	SP 1000	214 (65.4)	25 (0.6)	12 (3.66)	90,000 lbs. (40,800 Kg)	377 (2.6)	5.20 (132.1)
	SP 1250	218 (66.6)	25 (0.6)	12 (3.66)	90,000 lbs. (40,800 Kg)	711 (4.9)	5.28 (134.1)
	SP 1500	222 (67.7)	24 (0.6)	12 (3.66)	90,000 lbs. (40,800 Kg)	1112 (7.7)	5.35 (135.9)
5 (125)	SP 500	252 (76.8)	21 (0.5)	13 (3.96)	1000,000 lbs. (45,360 Kg)	54 (0.4)	5.90 (149.9)
	SP 800	257 (78.5)	21 (0.5)	13 (3.96)	1000,000 lbs. (45,360 Kg)	198 (1.4)	6.00 (152.4)
	SP 1000	261 (79.5)	21 (0.5)	13 (3.96)	1000,000 lbs. (45,360 Kg)	356 (2.5)	6.07 (154.2)
	SP 1250	266 (81.1)	20 (0.5)	13 (3.96)	1000,000 lbs. (45,360 Kg)	690 (4.8)	6.16 (156.5)
	SP 1500	270 (82.4)	20 (0.5)	13 (3.96)	1000,000 lbs. (45,360 Kg)	1109 (7.6)	6.25 (158.8)
6 (150)	SP 500	332 (101.2)	16 (0.4)	15 (4.57)	130,000 lbs. (59,000 Kg)	47 (0.3)	7.75 (196.9)
	SP 800	339 (103.5)	16 (0.4)	15 (4.57)	130,000 lbs. (59,000 Kg)	189 (1.3)	7.88 (200.2)
	SP 1000	344 (105.0)	16 (0.4)	15 (4.57)	130,000 lbs. (59,000 Kg)	360 (2.5)	7.97 (202.4)

1. Quasi-steady

2.. Absolute minimum outside diameter can be factory ground to and maintain static pressure rating.

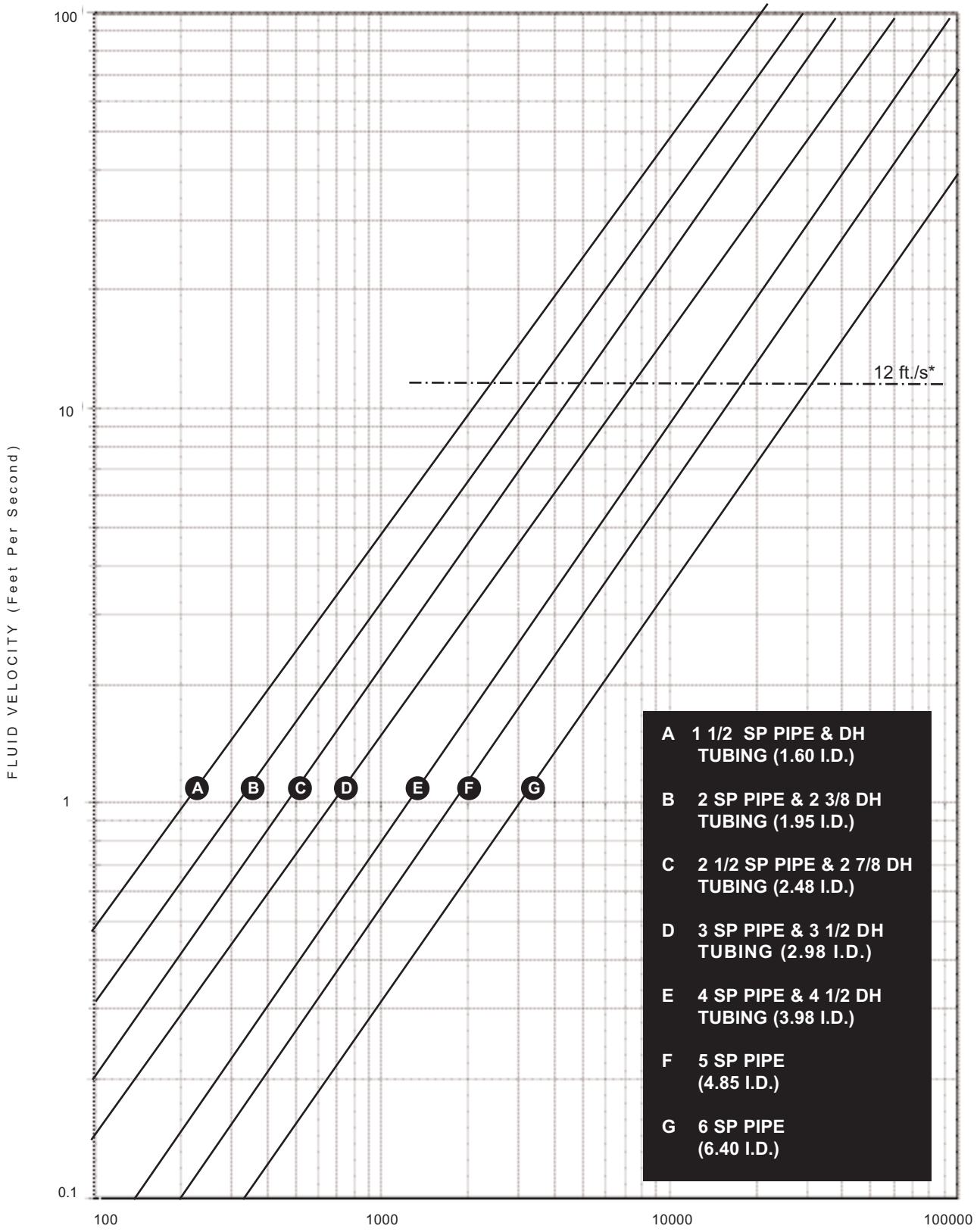
Additional pressure ratings available on all sizes. Please consult your local distributor or Centron Engineering for details.

Detail

Mill Test Pressure:	Operating Pressure x 1.25
Axial Modulus of Elasticity:	2.35 x 10^6 PSI (1.62 x 10^4 MPa)
Hoop Modulus of Elasticity:	3.59 x 10^6 PSI (2.48 x 10^4 MPa)
Density:	0.07 lbs/in^3 (Sp. Gr.= 1.95)
Coefficient of Thermal Expansion:	1.0 x 10^{-5} in/in/°F(2.57 x 10^{-5} m/m/°C)
Hazen-Williams Flow Factor:	150
Poissons Ratio (Hoop/Tensile):	.60
Poissons Ratio (Axial Tensile):	.45

Flow Rate vs. Fluid Velocity

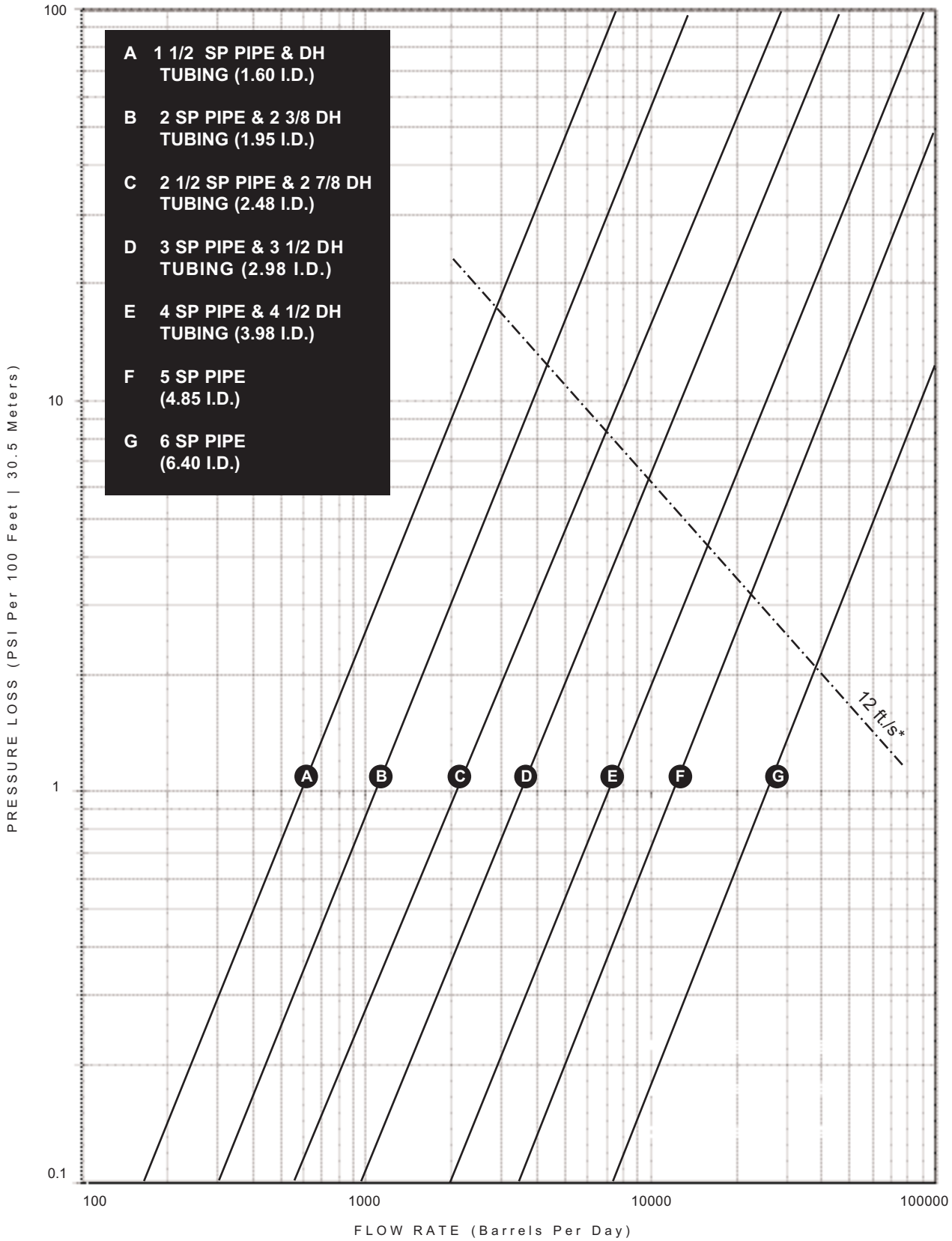
INTEGRAL JOINT SURFACE PIPE AND TUBING



** Note: If flow velocity is to be more than 12 ft./sec. contact Centron.*

Fresh Water Pressure Loss @ 60°F (16°C)

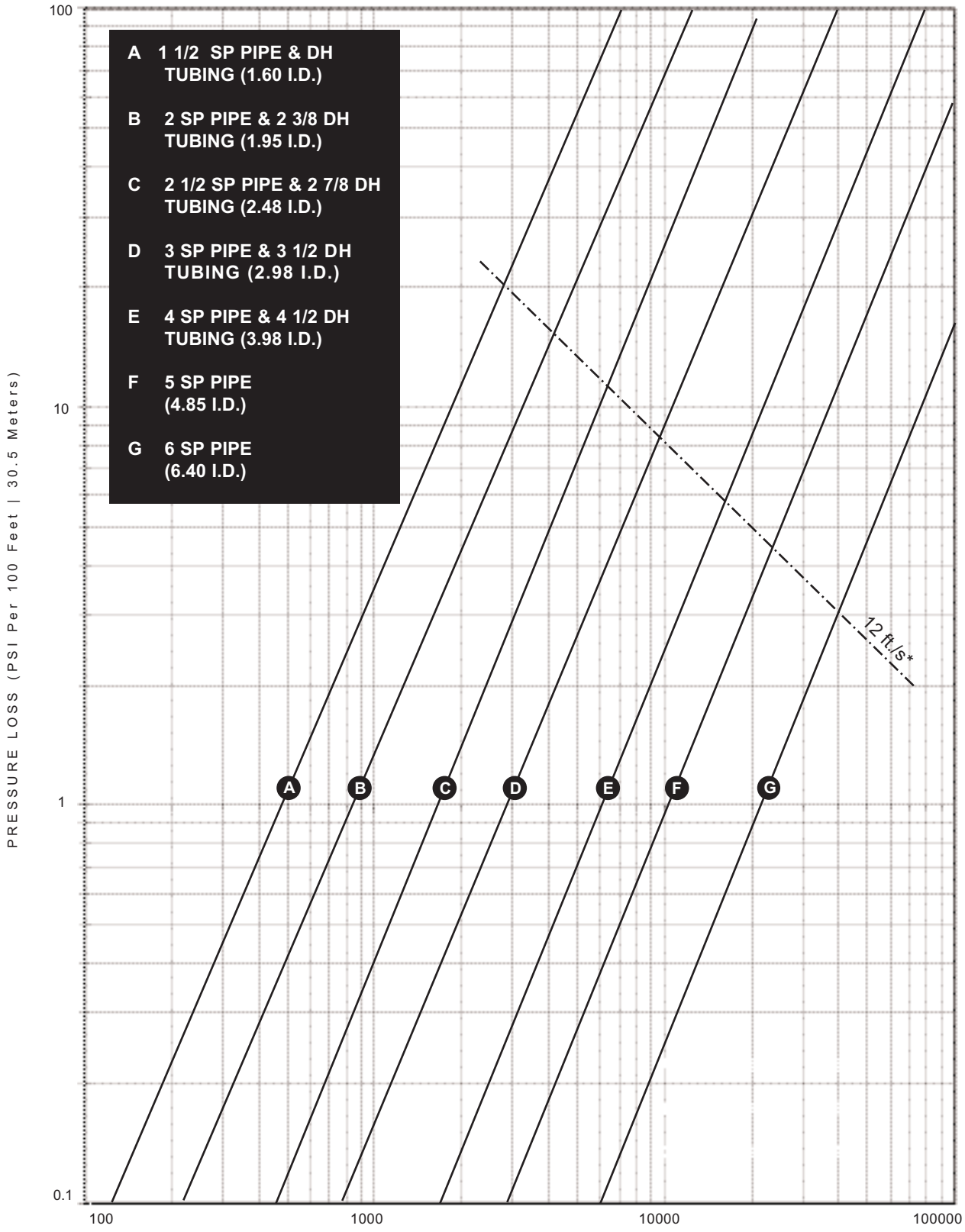
INTEGRAL JOINT SURFACE PIPE AND TUBING



** Note: If flow velocity is to be more than 12 ft./sec. contact Centron.*

40° API Crude Oil Pressure Loss @ 60°F (16°C)

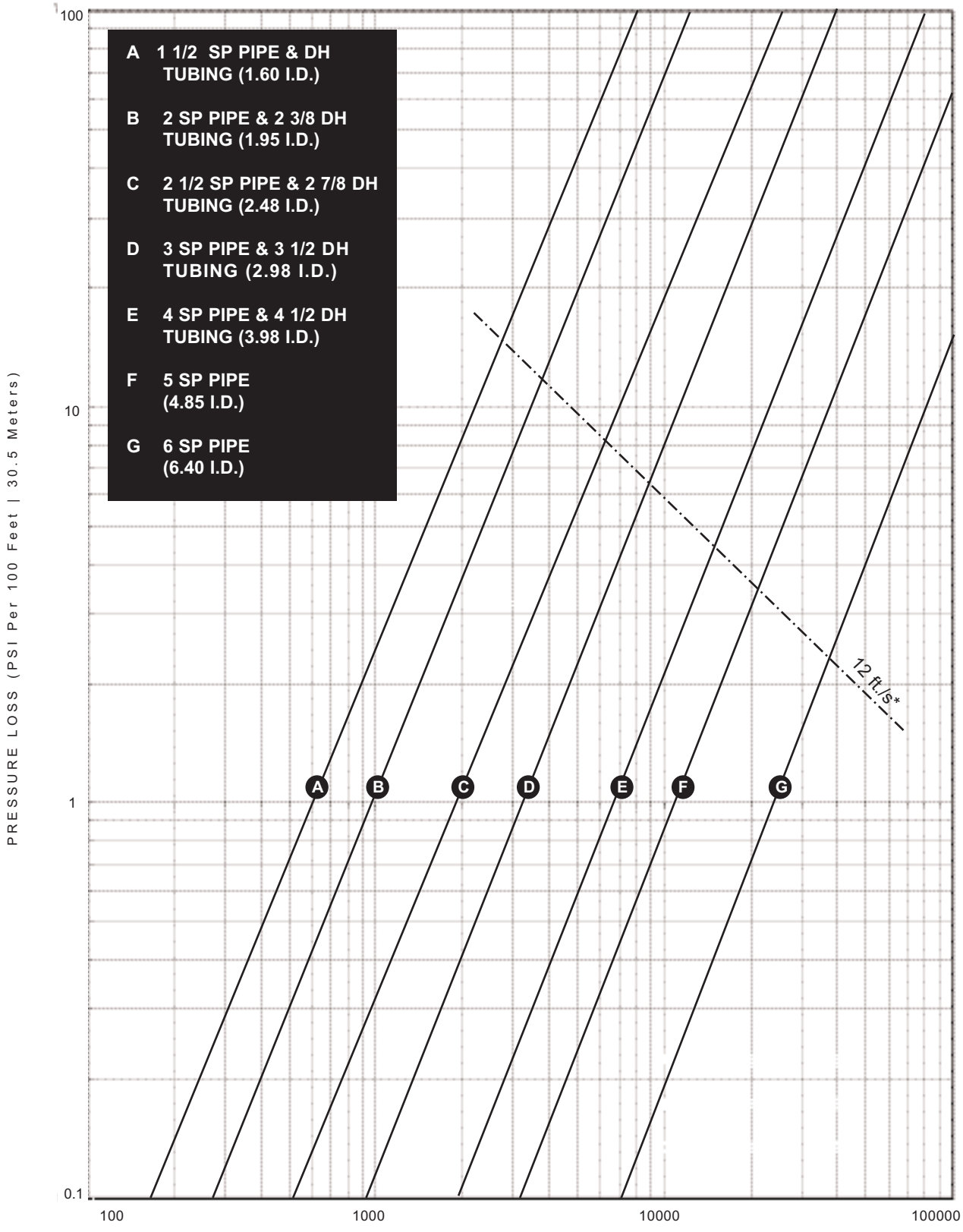
INTEGRAL JOINT SURFACE PIPE AND TUBING



** Note: If flow velocity is to be more than 12 ft./sec. contact Centron.*

10% Brine Pressure Loss @ 60°F (16°C)

INTEGRAL JOINT SURFACE PIPE AND TUBING



** Note: If flow velocity is to be more than 12 ft./sec. contact Centron.*