



[APPLICATIONS]

- **Flow Lines**
- **Chemical Disposal Lines**
- **Injection Lines**
- **Recirculating Lines**
- **Solution Mining**
- **Water Processing**

Centron® SPH Series Surface Pipe with its unique high strength, multiple seal joint, makes it the choice for corrosive oil field and other demanding fluid transport applications. Available in 4” through 10” 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—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 materials to provide complete reliability throughout the pipeline system.

ADVANTAGES >

- About 1/4 the weight of steel
- Assemble in any weather—no adhesives required
- Superior flow characteristics
- Coarse threads—no cross threading
- Excellent corrosion resistance, long service life
- Exceptional pressure and axial load capabilities
- Low installation costs
- Low paraffin and scale build-up



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)			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)
		125°F (52°C)	150°F (65°C)	180°F (82°C)					
4 (100)	SPH 1500	1400	1250	1100	4.44 (112.8)	3.98 (101.9)	0.230 (5.8)	6.2 (157)	2.6 (3.83)
	SPH 2000	1850	1650	1450	4.59 (116.6)	3.98 (101.9)	0.310 (7.9)	6.6 (168)	3.5 (5.17)
	SPH 2500	2300	2100	1850	4.75 (120.7)	3.98 (101.9)	0.390 (9.9)	6.9 (175)	4.5 (6.65)
	SPH 3000	2750	2500	2200	4.91 (124.7)	3.98 (101.9)	0.470 (11.9)	7.2 (183)	5.5 (8.17)
6 (150)	SPH 800	750	650	600	6.47 (164.3)	6.1 (154.9)	0.190 (4.8)	8.4 (213)	3.1 (4.60)
	SPH 1000	900	850	750	6.57 (166.9)	6.1 (154.9)	0.240 (6.1)	8.6 (218)	4.0 (5.89)
	SPH 1250	1150	1050	900	6.68 (169.7)	6.1 (154.9)	0.290 (7.4)	8.9 (226)	4.9 (7.33)
	SPH 1500	1400	1250	1100	6.79 (172.5)	6.1 (154.9)	0.350 (8.9)	9.1 (231)	5.9 (8.79)
	SPH-HP 1750	1600	1450	1300	6.23 (158.2)	5.5 (139.7)	0.370 (9.4)	9.2 (234)	5.7 (8.46)
	SPH-HP 2000	1850	1650	1450	6.33 (160.8)	5.5 (139.7)	0.420 (10.7)	9.4 (239)	6.5 (9.71)
	SPH-HP 2250	2050	1900	1650	6.44 (163.6)	5.5 (139.7)	0.470 (11.9)	9.6 (244)	7.4 (11.10)
	SPH-HP 2500	2300	2100	1850	6.54 (166.1)	5.5 (139.7)	0.520 (13.2)	9.8 (249)	8.3 (12.38)
	SPH 1800	1650	1500	1300	8.78 (223.0)	7.75 (196.9)	0.520 (13.2)	11.4 (290)	11.3 (16.83)
7³/₄ (175)	SPH 800	750	650	600	8.22 (208.8)	7.75 (196.9)	0.240 (6.1)	10.2 (259)	5.0 (7.42)
	SPH 1000	900	850	750	8.33 (211.6)	7.75 (196.9)	0.290 (7.4)	10.5 (267)	6.2 (9.22)
	SPH 1250	1150	1050	900	8.47 (215.1)	7.75 (196.9)	0.360 (9.1)	10.8 (274)	7.7 (11.54)
	SPH 1500	1400	1250	1100	8.61 (218.7)	7.75 (196.9)	0.430 (10.9)	11.1 (282)	9.3 (13.91)
	SPH 1800	1650	1500	1300	8.78 (223.0)	7.75 (196.9)	0.520 (13.2)	11.4 (290)	11.3 (16.83)
8 (200)	SPH 500	450	400	350	8.74 (222.0)	8.42 (213.9)	0.170 (4.3)	10.4 (264)	3.6 (5.43)
	SPH 800	750	650	600	8.93 (226.8)	8.42 (213.9)	0.260 (6.6)	10.8 (274)	5.9 (8.75)
	SPH 1000	900	850	750	9.05 (229.9)	8.42 (213.9)	0.320 (8.1)	11.0 (279)	7.3 (10.88)
	SPH-HP 1250	1150	1050	900	8.47 (215.1)	7.75 (196.9)	0.360 (9.1)	11.4 (290)	7.7 (11.54)
	SPH-HP 1500	1400	1250	1100	8.61 (218.7)	7.75 (196.9)	0.430 (10.9)	11.6 (295)	9.3 (13.91)
	SPH-HP 1750	1600	1450	1300	8.76 (222.5)	7.75 (196.9)	0.510 (13.0)	12.0 (305)	11.1 (16.48)
	SPH-HP 2000	1850	1650	1450	8.90 (226.1)	7.75 (196.9)	0.580 (14.7)	12.2 (310)	12.7 (18.93)
10 (250)	SPH 400^s	370	330	300	10.01 (254.3)	9.72 (246.9)	0.160 (4.1)	11.8 (300)	3.8 (5.66)
	SPH 500	450	400	350	10.09 (256.3)	9.72 (246.9)	0.190 (4.8)	12.0 (305)	4.9 (7.25)
	SPH 800	750	650	600	10.30 (261.6)	9.72 (246.9)	0.290 (7.4)	12.3 (312)	7.7 (11.48)

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 system for given service.
2. Centron® SPH Series Surface Pipe Joints are 29.16 ft. (8.89 M) overall length with a "make-up" length of 28.66 ft. (8.74 M).
3. Vacuum breakers may be required.

Performance Properties

Nominal Size Rating Inches (mm)	Series/Static ¹		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)
	Pressure Rating	100°F (38°C)						
4 (100)	SPH	1500	222 (67.7)	24 (0.6)	12 (3.7)	90,000 lbs. (40,800 Kg)	1112 (7.7)	5.47 (139)
	SPH	2000	230 (69.9)	24 (0.6)	12 (3.7)	90,000 lbs. (40,800 Kg)	2347 (16.2)	5.63 (143)
	SPH	2500	238 (72.4)	23 (0.6)	12 (3.7)	90,000 lbs. (40,800 Kg)	4260 (29.4)	5.79 (147)
	SPH	3000	246 (74.8)	22 (0.6)	12 (3.7)	90,000 lbs. (40,800 Kg)	6795 (46.9)	5.95 (151)
6 (150)	SPH	800	324 (98.6)	17 (0.4)	15 (4.5)	150,000 lbs. (68,000Kg)	187 (1.3)	7.72 (196)
	SPH	1000	329 (100.1)	16 (0.4)	15 (4.5)	150,000 lbs. (68,000Kg)	366 (2.5)	7.82 (199)
	SPH	1250	334 (101.8)	16 (0.4)	15 (4.5)	150,000 lbs. (68,000Kg)	655 (4.5)	7.92 (2.01)
	SPH	1500	340 (103.5)	16 (0.4)	15 (4.5)	150,000 lbs. (68,000Kg)	1049 (7.2)	8.04 (204)
	SPH-HP	1750	312 (94.9)	17 (0.4)	14 (4.3)	150,000 lbs. (68,000Kg)	1609 (11.1)	8.08 (205)
	SPH-HP	2000	317 (96.5)	17 (0.4)	14 (4.3)	150,000 lbs. (68,000Kg)	2254 (15.5)	8.18 (208)
	SPH-HP	2250	322 (98.1)	17 (0.4)	14 (4.3)	150,000 lbs. (68,000Kg)	3110 (21.4)	8.28 (210)
	SPH-HP	2500	327 (99.7)	16 (0.4)	14 (4.3)	150,000 lbs. (68,000Kg)	4021 (27.7)	8.38 (213)
	7³/₄ (175)	SPH	800	411 (125.3)	13 (0.3)	17 (5.2)	230,000 lbs. (113,400 Kg)	187 (1.3)
SPH		1000	417 (126.9)	13 (0.3)	17 (5.2)	230,000 lbs. (113,400 Kg)	338 (2.3)	9.65 (245)
SPH		1250	424 (129.1)	13 (0.3)	17 (5.2)	230,000 lbs. (113,400 Kg)	614 (4.2)	9.79 (249)
SPH		1500	431 (131.2)	13 (0.3)	17 (5.2)	230,000 lbs. (113,400 Kg)	997 (6.9)	9.93 (252)
SPH		1800	439 (133.8)	12 (0.3)	17 (5.2)	230,000 lbs. (113,400 Kg)	1614 (11.1)	10.11 (257)
8 (200)	SPH	500	437 (133.2)	12 (0.3)	17 (5.2)	250,000 lbs. (113,400 Kg)	49 (0.3)	9.83 (250)
	SPH	800	447 (136.1)	12 (0.3)	17 (5.2)	250,000 lbs. (113,400 Kg)	186 (1.3)	10.01 (254)
	SPH	1000	453 (137.9)	12 (0.3)	17 (5.2)	250,000 lbs. (113,400 Kg)	337 (2.3)	10.13 (257)
	SPH-HP	1250	424 (129.1)	13 (0.3)	17 (5.2)	250,000 lbs. (113,400 Kg)	614 (4.2)	10.21 (259)
	SPH-HP	1500	431 (131.2)	13 (0.3)	17 (5.2)	250,000 lbs. (113,400 Kg)	997 (6.9)	10.35 (263)
	SPH-HP	1750	438 (133.5)	12 (0.3)	17 (5.2)	250,000 lbs. (113,400 Kg)	1533 (10.6)	10.51 (267)
	SPH-HP	2000	445 (135.6)	12 (0.3)	17 (5.2)	250,000 lbs. (113,400 Kg)	2157 (14.9)	10.65 (270)
10 (250)	SPH	400	501 (152.5)	11 (0.3)	19 (5.8)	290,000 lbs. (131,457 Kg)	24 (0.2)	11.14 (283)
	SPH	500	505 (153.8)	11 (0.3)	19 (5.8)	290,000 lbs. (131,457 Kg)	49 (0.3)	11.19 (284)
	SPH	800	515 (157.0)	11(0.3)	19 (5.8)	290,000 lbs. (131,457 Kg)	179 (1.2)	11.39 (289)

1. Quasi-steady

2. Absolute minimum outside diameter the box 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.

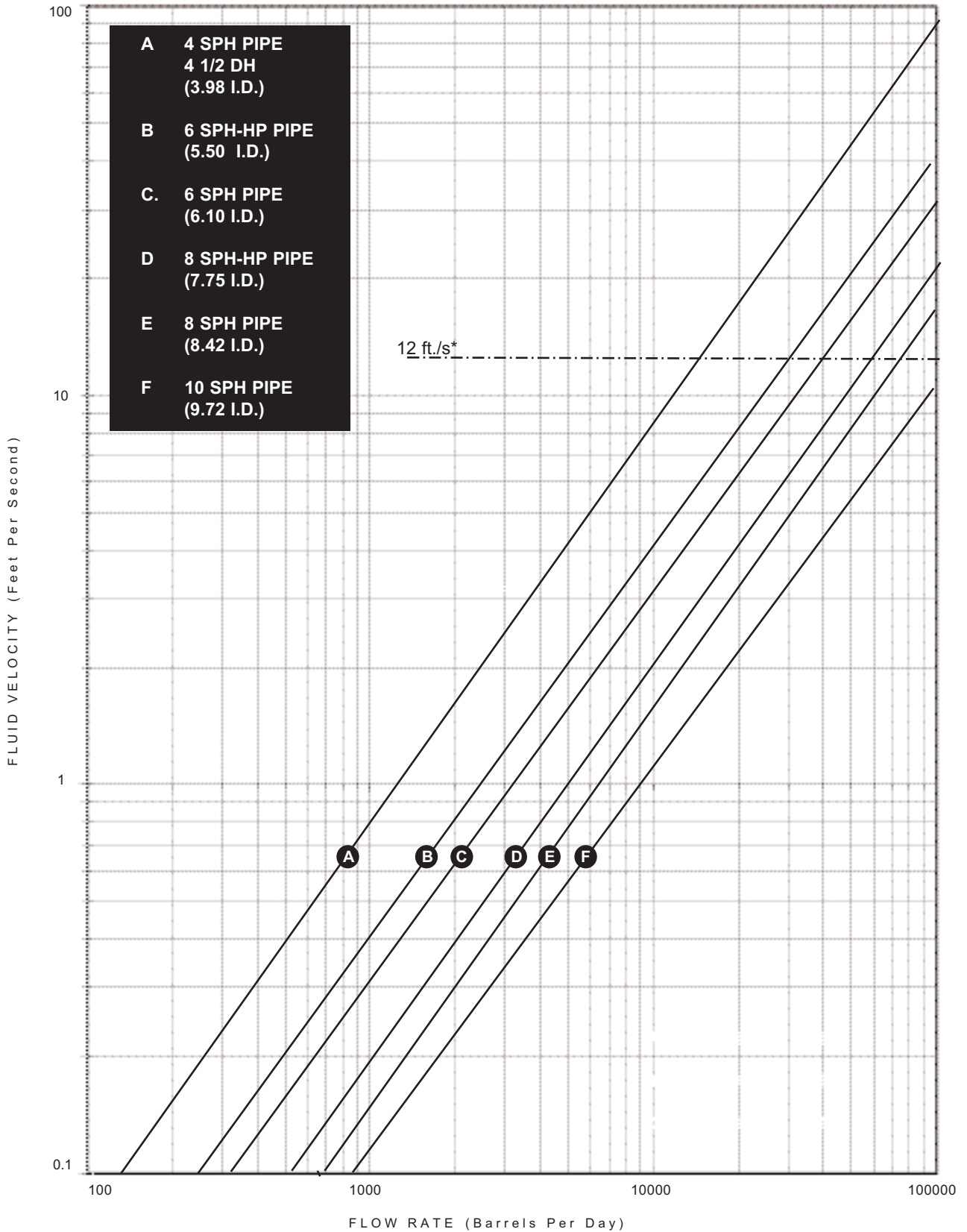


Detail

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

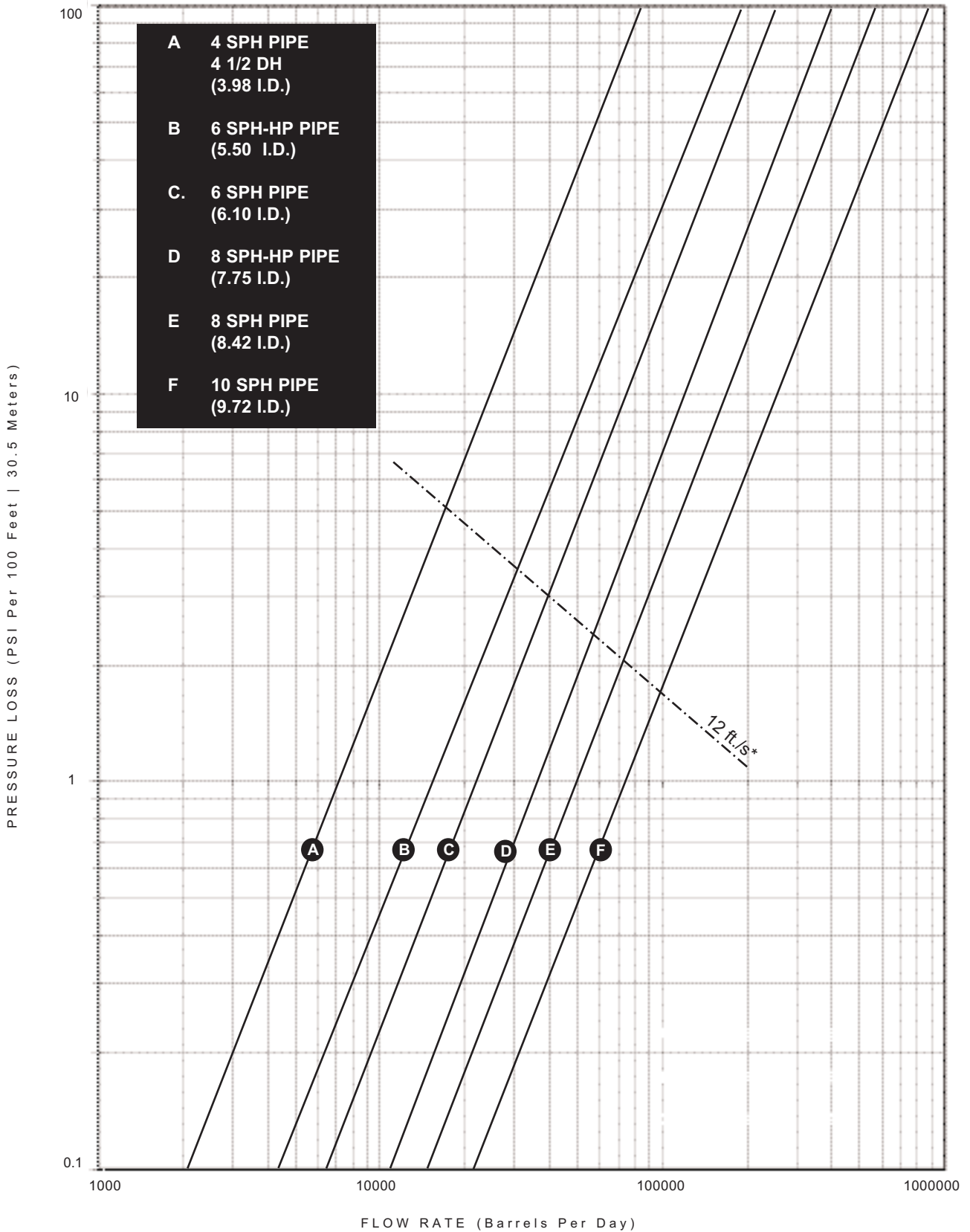


INTEGRAL JOINT SURFACE PIPE AND TUBING



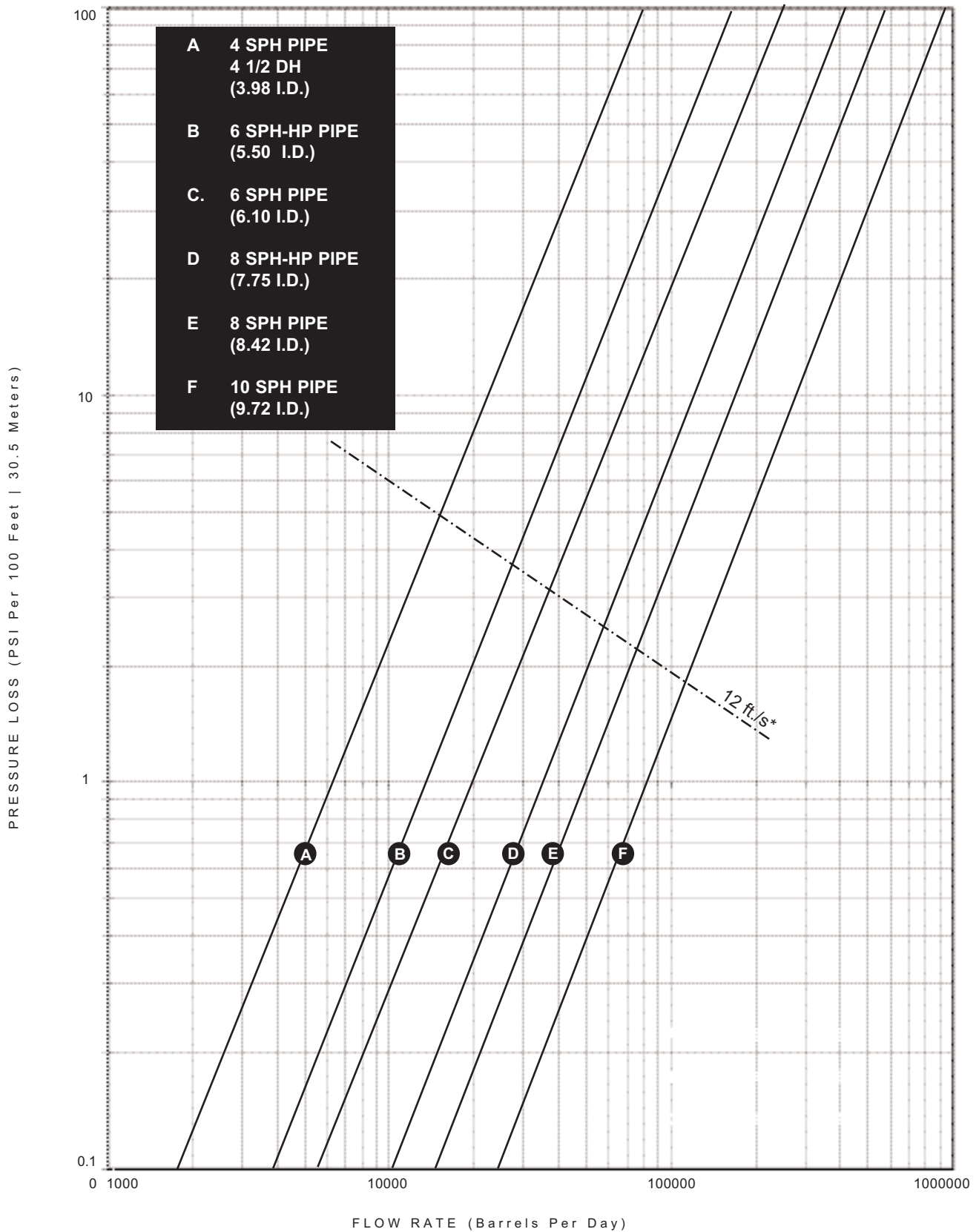
* Note: If flow velocity is to be more than 12 ft./sec. contact Centron.

INTEGRAL JOINT SURFACE PIPE



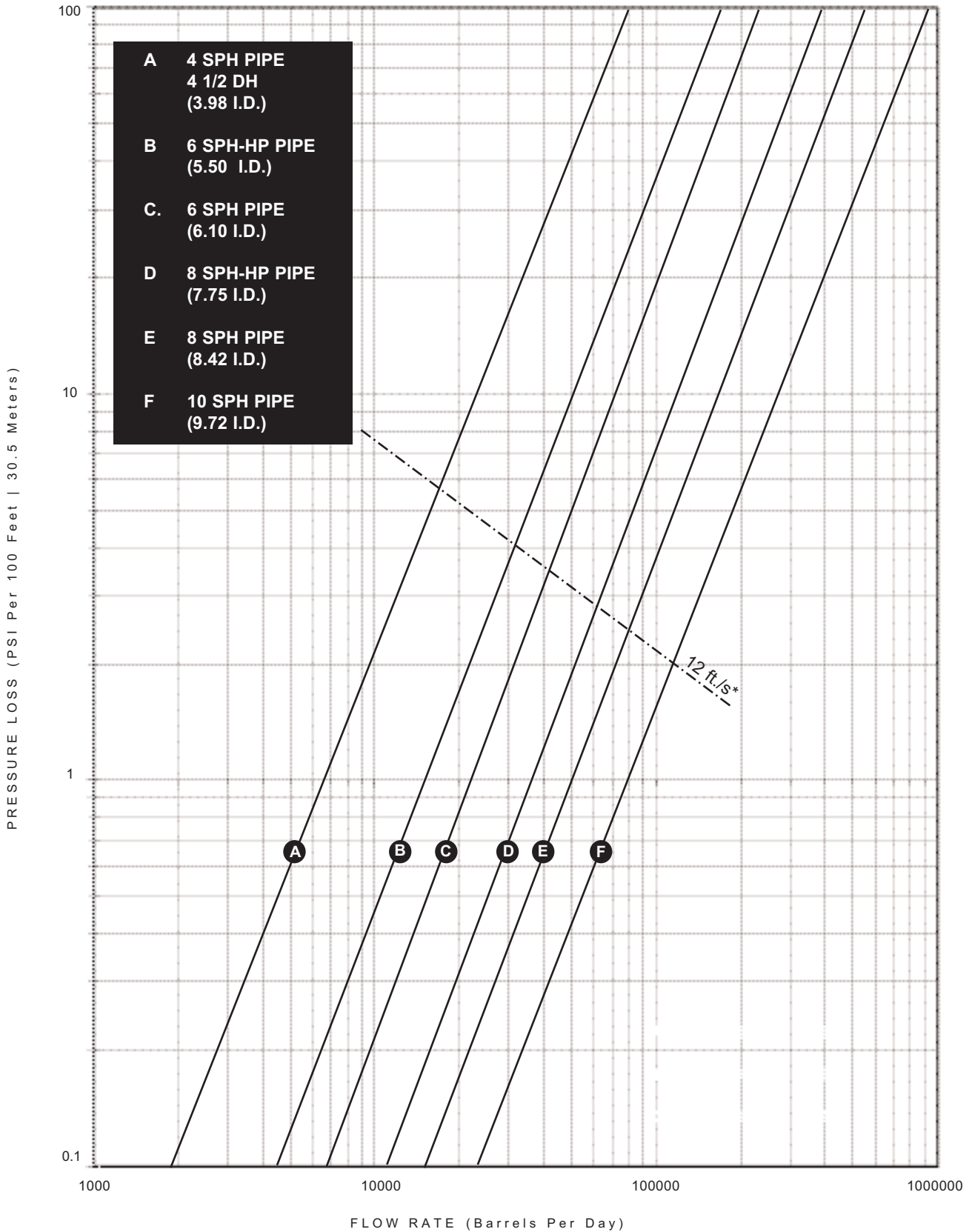
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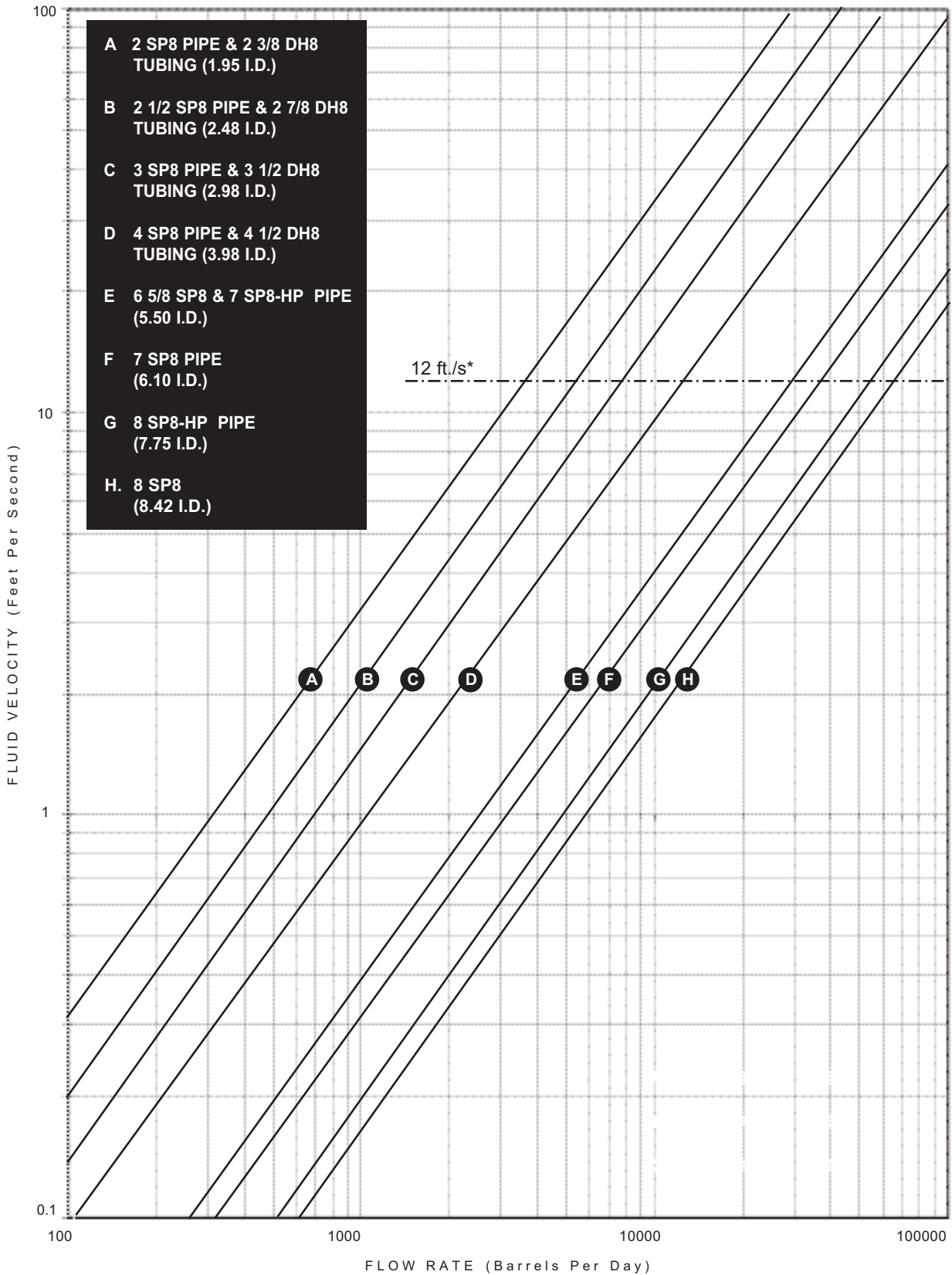
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