Trilex FLUID POWER Inc.

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Pipe Flow Chart

PIPE SIZE (OD x WT)	PIPE ID (INCHES)	BURST PRESSURE (PSI)	GPM @ 5 FPS	GPM @ 10 FPS	GPM @ 15 FPS	GPM @ 20 FPS	GPM @ 25 FPS
1/2" SCH XXS	0.252	42,000	0.8	1.6	2.3	3.1	3.9
3/4" SCH XXS	0.434	35,200	2.3	4.6	6.9	9.2	11.5
1/2" SCH 160	0.466	26,714	2.7	5.3	8.0	10.6	13.3
1/2" SCH 80	0.546	21,000	3.6	7.3	10.9	14.6	18.2
20 x 3 mm	**0.551**	**26,397**	**3.7**	**7.4**	**11.1**	**14.9**	**18.6**
1" SCH XXS	0.599	32,669	4.4	8.8	13.2	17.6	22.0
3/4" SCH 160	0.614	24,914	4.6	9.2	13.8	18.5	23.1
3/4" SCH 80	0.742	17,600	6.7	13.5	20.2	27.0	33.7
25 x 3 mm	**0.748**	**20,595**	**6.8**	**13.7**	**20.5**	**27.4**	**34.2**
1" SCH 160	0.815	22,300	8.1	16.3	24.4	32.5	40.7
30 x 4 mm	**0.866**	**23,206**	**9.2**	**18.4**	**27.5**	**36.7**	**45.9**
1-1/4" SCH XXS	0.896	27,614	9.8	19.7	29.5	39.3	49.1
1" SCH 80	0.957	16,300	11.2	22.4	33.6	44.8	56.1
1-1/2" SCH XXS	1.100	25,263	14.8	29.6	44.4	59.2	74.1
1-1/4" SCH 160	1.160	18,100	16.5	32.9	49.4	65.9	82.4
42 x 5 mm	**1.260**	**20,450**	**19.4**	**38.9**	**58.3**	**77.7**	**97.2**
1-1/4" SCH 80	1.278	13,900	20.0	40.0	60.0	80.0	100.0
1-1/2" SCH 160	1.338	17,700	21.9	43.8	65.7	87.7	109.6
50 x 6 mm	**1.496**	**20,595**	**27.4**	**54.8**	**82.2**	**109.6**	**137.0**
1-1/2" SCH 80	1.500	12,600	27.5	55.1	82.6	110.2	137.7
2" SCH XXS	1.503	22,029	27.7	55.3	83.0	110.6	138.3
2" SCH 160	1.687	17,500	34.8	69.7	104.5	139.4	174.2
60 x 8 mm	**1.732**	**23,206**	**36.7**	**73.4**	**110.2**	**146.9**	**183.6**
2-1/2" SCH XXS	1.771	23,040	38.4	76.8	115.2	153.6	192.0
65 x 8 mm	**1.929**	**21,176**	**45.6**	**91.1**	**136.7**	**182.2**	**227.8**
2" SCH 80	1.939	11,000	46.0	92.0	138.1	184.1	230.1
60 x 5 mm	**1.969**	**13,924**	**47.5**	**94.9**	**142.4**	**189.8**	**237.3**
2-1/2" SCH 160	2.125	15,700	55.3	110.6	165.8	221.1	276.4
3" SCH XXS	2.300	20,571	64.8	129.5	194.3	259.0	323.8
2-1/2" SCH 80	2.323	11,500	66.1	132.1	198.2	264.2	330.3
80 x 10 mm	**2.362**	**21,611**	**68.3**	**136.6**	**204.9**	**273.2**	**341.5**
3" SCH 160	2.624	15,000	84.3	168.6	252.9	337.1	421.4
88 x 10 mm	**2.677**	**19,435**	**87.7**	**175.4**	**263.2**	**350.9**	**438.6**
3" SCH 80	2.900	10,300	102.9	205.9	308.8	411.8	514.7
88 x 5 mm	**3.071**	**9,282**	**115.4**	**230.9**	**346.3**	**461.8**	**577.2**
4" SCH XXS	3.152	17,973	121.6	243.2	364.9	486.5	608.1
114 x 10 mm	**3.307**	**22,916**	**133.9**	**267.7**	**401.6**	**535.5**	**669.4**
3-1/2" SCH 80	3.364	9,500	138.5	277.1	415.6	554.1	692.6
4" SCH 160	3.438	14,200	144.7	289.4	434.1	578.8	723.4
4" SCH 80	3.826	9,000	179.2	358.4	537.6	716.8	896.0
114 x 6 mm	**4.016**	**8,557**	**197.4**	**394.9**	**592.3**	**789.7**	**987.1**
5" SCH XXS	4.063	16,178	202.1	404.2	606.2	808.3	1010.4
5" SCH 160	4.313	13,500	227.7	455.4	683.1	910.8	1138.6
141 x 13 mm	**4.528**	**15,519**	**251.0**	**502.0**	**752.9**	**1003.9**	**1254.9**
5" SCH 80	4.813	8,100	283.6	567.1	850.7	1134.3	1417.8
6" SCH XXS	4.897	15,650	293.6	587.1	880.7	1174.2	1467.8
168 x 20 mm	**5.039**	**20,468**	**310.8**	**621.6**	**932.5**	**1243.3**	**1554.1**
141 x 6 mm	**5.079**	**6,817**	**315.8**	**631.6**	**947.3**	**1263.1**	**1578.9**
6" SCH 160	5.187	13,000	329.4	658.7	988.1	1317.4	1646.8
168 x 18 mm	**5.197**	**18,275**	**330.6**	**661.2**	**991.9**	**1322.5**	**1653.1**
6" SCH 80	5.761	7,800	406.3	812.6	1218.8	1625.1	2031.4
168 x 10 mm	**5.827**	**9,718**	**415.6**	**831.3**	**1246.9**	**1662.6**	**2078.2**
219 x 23 mm	**6.811**	**17,840**	**567.9**	**1135.7**	**1703.6**	**2271.5**	**2839.3**
8" SCH 160	6.813	12,600	568.2	1136.4	1704.6	2272.8	2841.0
8" SCH XXS	6.875	12,174	578.6	1157.2	1735.8	2314.4	2893.0
219 x 12 mm	**7.622**	**9,427**	**711.2**	**1422.3**	**2133.5**	**2844.6**	**3555.8**
8" SCH 80	7.625	6,900	711.7	1423.4	2135.1	2846.9	3558.6
219 x 8 mm	**7.992**	**5,802**	**781.9**	**1563.7**	**2345.6**	**3127.5**	**3909.4**
10" SCH 160	8.500	12,500	884.4	1768.9	2653.3	3537.7	4422.1
10" SCH XXS	8.750	11,163	937.2	1874.4	2811.7	3748.9	4686.1
10" SCH 80	9.562	6,600	1119.2	2238.5	3357.7	4477.0	5596.2
12" SCH 160	10.126	12,300	1255.2	2510.3	3765.5	5020.7	6275.8
12" SCH XXS	10.750	9,412	1414.6	2829.3	4243.9	5658.5	7073.1
12" SCH 80	11.374	6,500	1583.6	3167.2	4750.9	6334.5	7918.1

Flows calculated with the formula: ***GPM = (V x A) ÷(0.3208)***

V *= velocity of oil in ft/sec.;* ***A*** *= inside area of pipe in square inches.*