

# PIPE CAPACITIES FLOW – GALLONS PER MINUTE

PIPE SIZE INCHES	WATER		70SSU		100SSU		150SSU		200SSU		300SSU		500SSU	
	GRAVITY	PRESSURE	GRAVITY	PRESSURE	GRAVITY	PRESSURE	GRAVITY	PRESSURE	GRAVITY	PRESSURE	GRAVITY	PRESSURE	GRAVITY	PRESSURE
3/4	1.42	4.70	0.58	4.21	0.39	4.01	0.25	3.79	0.18	3.64	0.12	3.45	0.068	3.21
1	2.65	9.20	1.04	8.27	0.692	7.85	0.432	7.43	0.324	7.14	0.216	6.75	0.130	5.66
1 1/4	5.30	18.9	3.24	16.9	2.02	16.1	1.30	15.3	0.943	14.7	0.634	13.9	0.389	12.9
1 1/2	8.10	28.4	5.90	25.5	3.74	24.2	2.38	22.9	1.73	20.9	1.17	19.8	0.706	19.4
2	15.60	54.7	11.95	49.0	10.22	46.7	6.55	44.2	4.86	42.4	3.24	40.1	1.94	37.4
2 1/2	25.10	87.4	23.04	78.3	19.50	77.0	13.32	70.5	9.65	67.8	6.55	64.2	3.92	59.8
3	44.50	154.	33.2	138.	29.5	131.	27.1	124.	23.2	119.	15.7	113.	9.22	105.
4	91.00	317.	80.5	284.	77.0	270.	72.	256.	69.8	246.	54.0	233.	32.3	217.
5	164.	573.	139.	514.	131.	489.	123.	463.	116.	445.	99.10	421.	71.0	392.
6	267.	930.	212.	834.	202.	794.	187.	751.	176.	722.	159.	683.	143.	570.
8	550.	1910.	469.	1710.	436.	1630.	401.	1540.	379.	1480.	350.	1400.	312.	1310.
10	1010.	3480.	940.	3120.	885.	2970.	825.	2810.	786.	2700.	735.	2550.	670.	2380.
12	1610.	5590.	1398.	5010.	1305.	4770.	1220.	4519.	1106.	4340.	1085.	4100.	995.	3820.
14	2160.	7250.	1880.	6500.	1780.	6190.	1650.	5850.	1580.	5620.	1470.	5320.	1350.	4960.
16	3020.	10490.	2610.	9410.	2470.	8760.	2300.	8480.	2180.	8150.	2020.	7700.	1840.	7180.
18	4100.	14500.	3580.	13200.	3350.	12400.	3100.	13200.	2920.	12600.	2720.	11000.	2500.	10100.
20	5500.	19180.	4850.	17200.	4600.	16400.	4300.	15500.	4100.	14900.	3860.	14100.	3580.	13100.

1. The flows are based on a loss of head due to friction of fluids in given pipe size for fairly smooth pipe and is considered reasonably conservative. (C = 100)
2. For pitched gravity piping the loss is one (1) foot per hundred feet of pipe.
3. The pressure piping losses are based on a loss of ten (10) feet per hundred feet of pipe. For short runs and few fittings use next size smaller pipe, for long runs or many fittings use a size larger.
4. This chart is designed for rapid sizing of pipe for central coolant systems only. For large complex piping refer to Cameron Hydraulic Data book.