

Steam Pipe Capacities

POUNDS PER HOUR OF SATURATED STEAM AT GAUGE PRESSURES SHOWN AND IN PRESSURE DROPS PER 100 FEET OF PIPE

PipeSize	5PSIG		15PSIG			25PSIG			
	1/4	1/2	1/4	1/2	1	1/2	1.00	1.5	
3/4	18	27	24	35	47	40	60	75	
1	35	55	47	70	95	80	120	150	
1-1/4	80	120	100	140	200	160	240	300	
1-1/2	120	170	150	210	300	240	350	450	
2	225	340	280	425	600	475	700	900	
2-1/2	350	550	450	650	950	750	1,100	1,400	
3	650	950	800	1,200	1,700	1,300	2,000	2,500	
4	300	1,950	1,600	2,400	3,500	2,700	4,000	5,000	
6	4,000	6,000	4,800	7,000	10,000	8,000	12,000	15,000	
8	8,000	12,000	10,000	14,000	20,000	16,000	25,000	30,000	
10	14,000	21,000	18,000	25,000	36,000	30,000	44,000	55,000	

	50 PSIG			75 PSIG		
	1/2	1.00	1.5	1/2	1.00	1.5
3/4	38	55	65	60	85	105
1	77	110	130	120	170	210
1-1/4	170	240	290	250	350	450
1-1/2	260	370	450	360	500	650
2	530	750	900	700	1,000	1,300
2-1/2	870	1,240	1,500	1,100	1,600	2,000
3	1,600	2,270	2,700	2,000	3,000	3,600
4	3,400	4,800	6,200	4,000	6,000	7,500
6	10,200	14,500	19,000	12,000	18,000	22,000
8	21,400	30,300	38,000	25,000	36,000	45,000
10	40,000	56,000	70,000	45,000	65,000	80,000

	100 PSIG			125 PSIG			150 PSIG		
	1/2	1.00	1.5	1/2	1.00	1.5	1	2.00	3
3/4	65	100	125	105	150	200	120	175	220
1	130	200	250	210	300	400	240	350	440
1-1/4	290	400	500	450	680	820	500	700	900
1-1/2	400	600	750	700	1,000	1,250	720	1,000	1,300
2	800	1,200	1,500	1,300	2,000	2,500	1,400	2,000	2,600
2-1/2	1,300	2,000	2,400	2,100	3,000	3,800	2,300	3,300	4,000
3	2,300	3,400	4,000	3,600	5,200	7,000	4,000	6,000	7,200
4	4,600	7,000	8,400	7,500	11,000	14,000	8,000	12,000	15,000
6	13,000	21,000	25,000	22,000	33,000	42,000	25,000	36,000	45,000
8	27,000	42,000	50,000	45,000	68,000	84,000	50,000	72,000	90,000
10	50,000	75,000	90,000	81,000	120,000	150,000	90,000	130,000	160,000

NOTES ON THE USE OF THE STEAM PIPE CAPACITY CHARTS

1. The column headings 1/4, 1/2, 1, etc refer tot hepressure drop, in pounds per square inch for 100 feet of pipe or equivalent piping
2. When three columns are given from which to choose, the highest may be used fro branch run-outs, the middle for average main runs and the lowest for special cases.
3. A safety rule to follow is that the total pressure drop throughtout a main run of 5% to 10% of the available boiler pressure may usually be tolerated

SOURCE

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