

1 cubic foot = 7.4805194805 gallon [US, liquid]
1 gallon [US, liquid] = 0.13368055556 cubic foot

MAXIMUM PIPE FLOW RATES

Assumptions:

Straight pipe
 No valves or bends in line
 Open Flow with no back pressure
 Pipe smoothness: C = 100

Discharge in Gallons Per Minute

Pipe size	PSI	Length in Feet				
		25	50	100	200	400
3/4"	20	23	16	11	8	5
	40	34	24	16	11	8
	60	43	29	20	14	10
	80	50	34	24	16	11
1"	20	44	31	21	14	10
	40	65	44	31	21	14
	60	81	55	38	26	18
	80	94	65	44	31	21
1-1/4"	20	121	84	58	39	27
	40	177	121	84	58	39
	60	220	151	104	72	50
	80	257	177	121	84	58
1-1/2"	20	137	94	65	45	31
	40	200	137	94	65	45
	60	250	170	117	81	56
	80	290	200	137	94	65

Piping systems rarely meet all of the conditions listed in the above assumptions. Actual maximum flow rates are usually much lower than the rates indicated in the above table.

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