

Table High pressure return

RETURN PIPE CAPACITIES								
In Pounds Per Hour								
Pipe Size In.	Low Pressure Gravity		High Pressure Return, Steam Pressure in Psig					
	Return	Vacuum Return	25	50	100	150	200	250
3/4			236	312	419	560	682	1,074
1	200	350	474	617	823	1,120	1,138	2,150
1-1/4	400	600	989	1,306	1,755	2,330	2,880	4,450
1-1/2	700	950	1,610	2,126	2,850	3,800	4,710	7,350
2	1,200	2,000	3,280	4,325	5,785	7,700	9,550	14,875
2-1/2	1,650	3,350	5,400	7,160	9,640	12,800	15,850	24,600
3	2,600	5,350	9,890	13,070	17,550	23,300	28,850	34,750
4	6,500	11,000	20,800	27,360	36,550	49,200	60,900	73,350
5	10,400	19,400	38,850	52,925	70,000	91,500	114,500	127,600
6	18,000	31,000	61,200	83,700	112,700	150,000	185,500	223,100
NOTES ON USE OF ABOVE TABLE								
1 The "Steam Pressure in PSIG" refers to the pressure ahead of the traps which discharge into the return line being sized.								
2 If the condensate is being collected in a receiver, and then pumped back to a deaerator or hotwell, the return line should be sized with the use of the tables on page C-1 and C-2.								
3 For the pumped return system mentioned in Note 2, the pump must be selected to pump, against the total of the following resistances:								
a) Return pipe friction from Note 2 above.								
b) Vertical difference in elevation from the level in the condensate receiver to the level in the hotwell or deaerator.								
c) The gauge pressure on the surface of the water in the hotwell or deaerator								

Table High pressure return

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