



Sizes of Mains

The size of steam mains depends on four factors, viz.: the surface to be carried, the velocity of the steam, the drop in pressure, and length of mains. No arbitrary rule can be laid down to suit all cases.

The sizes given in the following table are considered conservative, and are to be used under ordinary conditions:

Mains Not Exceeding 100 Feet in Length.

Size of Main Inches	Feet of Radiation			Returns Two Pipe Steam	
	Steam One Pipe	Water Two Pipe	Steam Two Pipe	Dry	Wet
1 1/4	75	100	80	1	1
1 1/2	125	200	180	1	1
2	350	300	325	1 1/2	1 1/4
2 1/2	550	450	650	2	1 1/2
3	1,000	700	1,100	2	2
3 1/2	1,400	900	1,500	2 1/2	2
4	1,800	1,200	2,100	2 1/2	2
4 1/2	2,500	1,500	2,700	3	2 1/2
5	3,000	2,000	3,500	3	2 1/2
6	4,500	3,000	6,000	3 1/2	3

Where piping is not **thoroughly** covered it should be figured as radiation. Branch mains carrying water and steam in opposite directions should be increased one size.

Branch mains carrying two or more branches should equal in internal diameter the sum of internal area of the branches. (See table of pipe areas.)

Uptakes from boiler to mains should be of increased sizes.

Above from good authorities, but are not guaranteed.