

The number of hydrants the city is entitled to under the above clause is seventy.

The number of connections with the water mains from which water can be drawn for fire, sewer flushing and public purposes is thirty-four. Seven of the number are hydrants which, with one exception, have no drip connections with the sewers or otherwise, and cannot be used in winter. One hydrant at the corner of Market and Princess Streets, has a drip connection which empties it after use and there is apparently no difficulty in working it at any time. The remaining twenty-eight connections are valves in the water pipes which are enclosed in man-holes built from the pipes to the surface of the street. Water is drawn from these by means of stand pipes  $2\frac{1}{2}$  inches in diameter. The valves and movable stand pipes are very imperfect substitutes for hydrants, and are open to the following objections:—They are not large enough to supply water to a steamer, having the capacity of one hose stream only. The actual quantity of water delivered by these valves with a pressure of 40 lbs. at the works is from 10 to 18 cubic feet per minute through open hose, the quantity varying with the length of hose. The valves leak more or less and the man-holes over them become partially filled with water, making it difficult and sometimes impossible to fix the stand-pipes in position.

Having no drip connections they are liable to freeze and become useless.

The hydrants should be from four to nine inches in diameter, according to the position in which they are placed, and the quantity of water which can be supplied to them; they should be furnished with both steamer and hose nozzles and should be provided with properly drained drips. Each hydrant so constructed would be in itself a powerful fire engine, the only thing necessary to bring it into use being to attach the hose.

2. "By the charter the Company are required to furnish, free of charge, water to a drinking fountain for man and beast, to be erected, one in each ward of the City as now existing, at such places as the Mayor and Corporation of the said City shall direct."

No fountains have yet been erected.

3. "Whether the mains have been extended as provided for, and if not, what in any of these respects has the City a right to ask for" The charter says, "that the Company shall be bound, on notification by the Corporation of the City, to extend their mains wherever in each quarter of a mile of street or streets contiguous to the mains of the said Company it is shown that a rental amounting to 10 per cent. on the cost of each quarter of a mile is obtainable, such extension to be made with all due diligence."