

THE NEW PUMPS.

A Cheap and Important Addition to Our Water Works.

The city is now supplied with water by the two new pumps just added to the water works. The connections with the engines were made to-day, and they work like a charm. The addition consists of two new piston pumps placed in pits below the floor of the engine room at the water works, and connected directly with the rods of the vertical engines. The stroke is thus given direct from the steam chest, and with a velocity of only ten revolutions per minute, a water pressure of 50 lbs. is obtained, whereas with the old leaky rotaries, 85 revolutions per minute would furnish only a pressure of 40 lbs. The capacity of these pumps is 1,600,000 gallons of water per diem, and the present pressure of 50 pounds runs them to about one-third of their capacity, and this will be kept up for domestic supply, giving the inhabitants of the upper portions of the city a much steadier and more copious supply than they have heretofore received.

Mr. James H. Fox, the gentleman sent from Lockport to put in these pumps, has performed his work to the admiration of all. He is a first-class mechanic, and having a thorough knowledge of everything connected with the Holly water works, his assistance and practical suggestions have been most valuable to us.

The rotary pumps are now motionless, and the noisy and most ponderous portion of the machinery necessary to run them being also still, will make a visit to the engine room of the water works much more pleasant, in consequence of the quiet and stillness that prevails. The machinery necessary to work the new pumps moves with less noise than some sewing machines, and conversation is not obstructed in the least. The old rotaries will now be taken up and repaired, and when made perfectly tight will be replaced, and used only for fire purposes, their capacity being somewhat greater than that of the new ones. Either the rotary or vertical engines can be attached to these, and either one of the four pumps can be run alone with some part of the machinery, so that in reality several sets of works are now available wherewith to furnish the water supply to the city. The costs of the new set of pumps was but \$3,000, while possibly the freight and labor of putting them in place will require \$1,000 more.

On Monday next, in all probability, a general test will be made of the new pumps, and the firemen will take this occasion to hold their annual review.