30-2 Gate Valves and Fire Hydrants.



FLANGED END OUTSIDE SCREW AND YOKE GATE VALVE.

In the outside screw and yoke valves the upper end of the spindle is threaded, and the spindle is operated by a revolving nut held vertically in the yoke and turned by the handwheel which is fastened to it. The spindle rises without revolving, and the plug, being fastened to the lower end, rises with it. The operating screw of these valves is entirely outside the body, where it can be inspected and soiled. The wheel is stationary vertically, and the rising spindle forms an indicator requiring no intermediate mechanism, as the projection of the spindle through the yoke nut shows the number of inches the plug has risen.

In both inside and outside screw valves sufficient play is allowed in the connection between the spindle and plug to allow the plug to seat truly without cramping the spindle.

All outside screw valves with bronze seats have our improved self-packing feature, which permits the stuffing box to be repacked when the valve is open and under pressure. The seats of our water valves are made of bronze and are dovetailed into the body at right angles to the staper faces of the plug, making a perfectly tight joint.

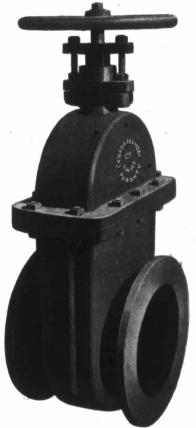
The faces of the plug are formed of bronze, dovetailed into grooves in the plug itself, and the faces are accurately finished by special

machinery to the exact taper of the seats. The spindles are of specially tough bronze of large diameter, and are made true to size with most approved form of thread. The stuffing boxes are large and deep, and are of the screw packing nut, or of the driving gland and bolt follower types as adapted to different sizes of valves.

Any of our valves can be furnished with handwheel or nut, or with gearing, as desired. Unless otherwise ordered all water valves, both plain and geared, and all hydrants will turn to the *left* to open. For use in filling long lines of pipe, or in equalizing the pressure on both sides of a valve before opening, we equip the larger sizes with a by-pass of proper size which engages with the body on each side of the plug. The by-pass has inside or outside screw to match the main valve. All valves are tested, both open and closed, under a pressure sufficient to insure their tightness under all working conditions.

When ordering it is necessary that the following information be given: Size; whether screwed, flanged, hub or spigot ends; if to turn to the right to open, otherwise they will open to left; pounds per square inch pressure or head under which the valves are to work. Unless otherwise ordered all hub and spigot valves will have nut on spindle, for wrench. All others will have handwheel.

When flanged end valves with the flanges drilled, are required, if not drilled to our standard (page 7), give diameter of bolt circle, size and number of holes, and state whether stem (or centre) line passes through top bolt hole or between two top bolt holes.



BRONZE MOUNTED, FLANGED END GATE VALVE, WITH HANDWHEEL.