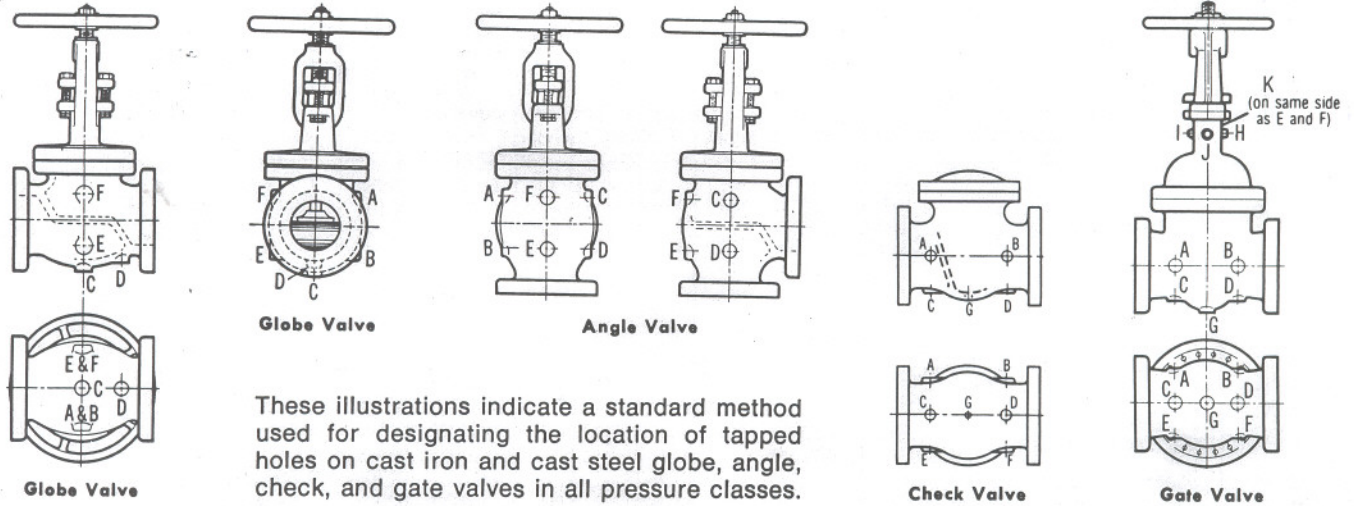


## TAPS AND DRAINS FOR FLANGED VALVES

### Designating Location of Tapped Holes



These illustrations indicate a standard method used for designating the location of tapped holes on cast iron and cast steel globe, angle, check, and gate valves in all pressure classes.

Valve bodies can be tapped without a boss for a very small drain hole; the maximum size of the hole, however, depends entirely upon the location of the tapped hole and the pressure class of the valve.

Gate valves are regularly made with bosses. Globe, angle, and check valves are not regularly made with bosses but can be so furnished when orders specify.

## LOCATION OF BY-PASSES

**Gate valves:** When gate valves are ordered with by-pass attached, it shall be regular practice to attach said by-pass at the side of the main valve with the stems of both valves parallel, pointing vertically upward.

The more common of the "special" attached-locations is on the center of the flow line, at the bottom of the main valve, with the stem of the by-pass valve at right angles to the main valve stem. This is designated as the "bottom attachment," or defined as "by-pass at bottom." When any other "special" attached-location or other position of the by-pass valve stem is desired, a sketch should be submitted.

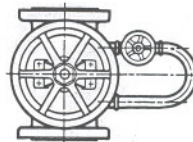
**Globe valves:** When globe valves are ordered with by-pass attached, it shall be regular practice to attach said by-pass at the right-hand side of the main valve, with the stems of both valves parallel, pointing vertically upward. When by-pass is "specially" required attached at the left-hand side, the designation shall be "left-hand attachment."

Right-hand side of a globe valve is the side at the right, when facing the flow-port which leads to the under side of the disc.

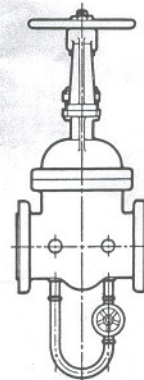
**Angle valves:** When angle valves are ordered with by-pass attached, it shall be regular practice to attach said by-pass at the back of the main valve, with the stems of both valves parallel, pointing vertically upward.

When the by-pass is "specially" required attached at the right or left-hand side, the designations shall be "right-hand attachment" or "left-hand attachment." Right-hand side of an angle valve is at the right, when facing the back of the valve.

These illustrations are representative of steel valves.



Gate Valve with By-Pass on Side



Gate Valve with By-Pass at Bottom