26.—Domes on Cylindrical Parts of Boilers and OPENINGS FOR OTHER PURPOSES.

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= The Any opening for domes, manholes, handholes, for other purposes on shells or cylindrical parts Low boilers must have its shorter axis in line with th longitudinal axis of same, and when that is over 21/2 inches be reinforced by a plate riveted after careful fitting to the shell, around the opening

and strength exclusive of rivet holes to the section ine of plate cut out of shell or covered by the dome is effici line with its longitudinal axis. The combineres sh area of rivets securing the reinforcement to she When must be exclusive of those necessary to hold domaal th to shell, 120 per cent, in excess of the area of set, -d. tion so removed or measured.

The reinforcement must be equal in cross section when

27.—MAXIMUM WORKING PRESSURE ALLOWED ON BOILER.

The maximum working pressure to be allowed the on the shell of a boiler constructed of steel of wrought iron shells or drums shall be determine from the minimum thickness of the shell plate the lowest tensile strength stamped on the plate by the plate manufacturer, or as established by authoritative test, the efficiency of the longitud inal joint, the inside diameter of the outsid Boilers course, and the lowest factor of safety allowed bade of these rules, the formula being:

$$B = \frac{2T \times S_t \times K}{D_r \times F}$$

B = Maximumallowable working pressure in 1 be d pounds per square inch.

T = Minimum thickness of shell plate in inches. arding S = Tensile strength of plate in pounds.