

**481—393.9(89) Washout opening requirements.**

**393.9(1)** Miniature power boilers exceeding 12 inches internal diameter or having more than 10 square feet of heating surface will be fitted with not less than three brass washout plugs of 1-inch pipe size that will be screwed into openings in the shell near the bottom. In miniature power boilers of the closed type system heated by removable internal electric heating elements, the openings for these elements when suitable for cleaning purposes may be substituted for washout openings. Boilers not exceeding 12 inches internal diameter and having less than ten square feet of heating surface need not have more than two 1-inch openings for cleanouts, one of which may be used for the attachment of the blowoff valve; these openings will be opposite each other where possible. All threaded openings will be opposite each other where possible. All threaded openings in the boiler will be provided with a riveted or welded reinforcement to give four full threads therein.

**393.9(2)** Electric boilers of a design employing a removable top cover flange for inspection and cleaning need not be fitted with washout openings.

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