



Q: ARE THERE SPECIFICATIONS FOR FLANGE DESIGN?

A: Yes. The following is a partial list of the more common flange specifications and what they cover.

Design Specification	Class	Comments
ASME B16.1 - Cast Iron Pipe Flanges and Flanged Fittings	25, 125, 250	This covers pressure-temperature ratings, materials, dimensions, and tolerances for Iron flanges and valves. 125 is the most common followed by 250 and 25 respectively.
ASME B16.5 Pipe Flanges and Flanged Fittings	150, 300, 400, 600, 900, 1500, 2500	This covers pressure-temperature ratings, materials, dimensions, and tolerances for pipe flanges and valves with flange diameters $\leq 24''$. The most common is 150 and generally decreases as the class number increases with the exception of class 400.
ASME B16.47 - Large Diameter Steel Flanges: NPS 26 through NPS 60	75, 150, 300, 400, 600, 900	This covers pressure-temperature ratings, materials, dimensions, and tolerances for pipe flanges in sizes 26'' to 60''. There are two different designs covered and they are not interchangeable. Series A which is the old MSS SP-44 and Series B which is the old API 605. Series A is more common.
ASME/ANSI B16.36 - Orifice Flanges	300, 400, 600, 900, 1500, 2500	This covers dimensions, and tolerances for orifice pipe flanges. This specification refers to B16.5 for materials and pressure-temperature ratings.

