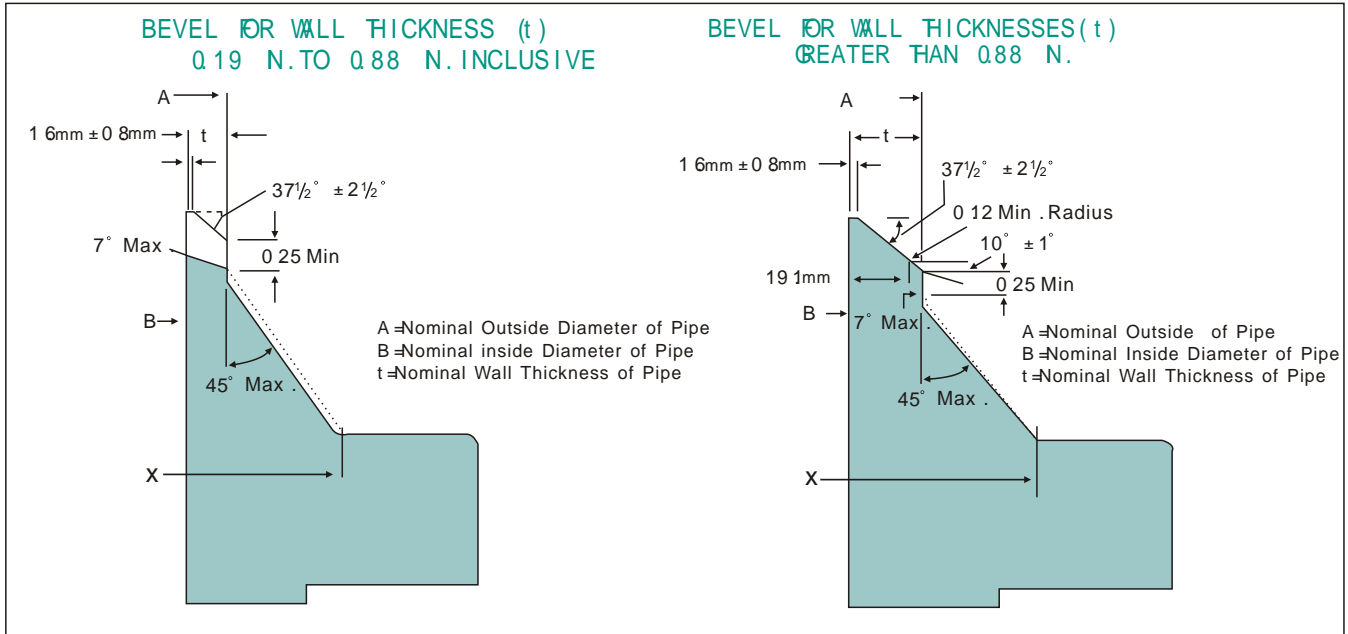


WELDING ENDS

ANSI B16.5 FORGED FLANGES

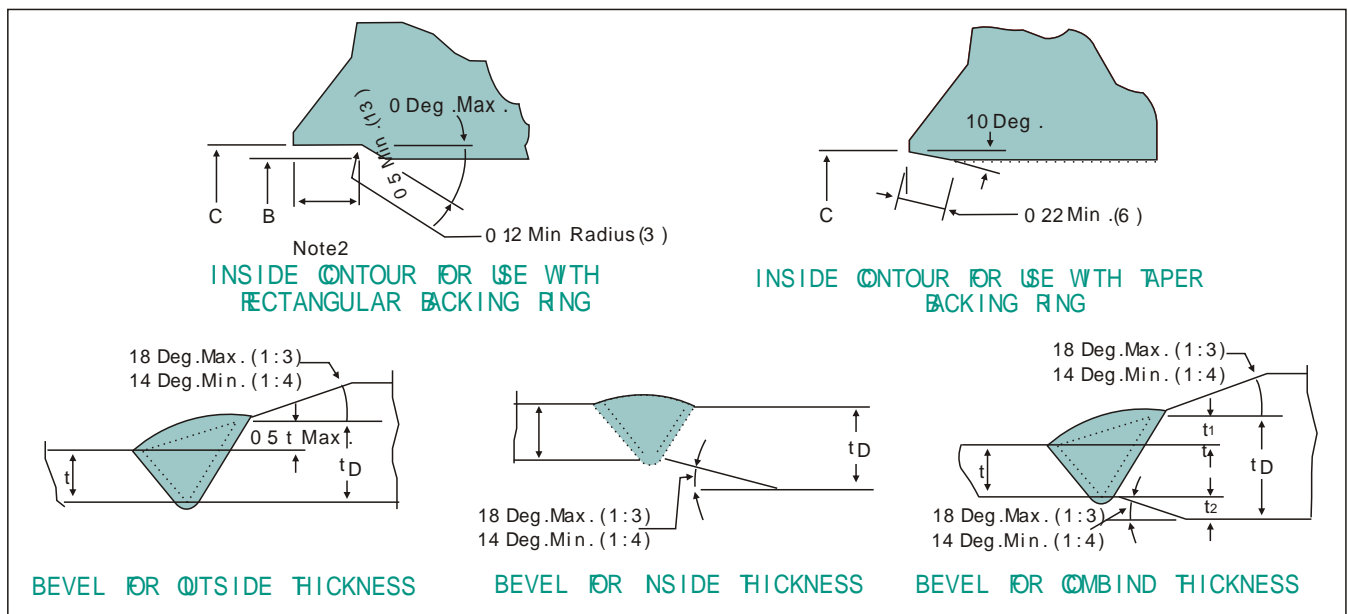


Notes

When the thickness of the hub at the bevel is greater than of the pipe to which the flange is joined and the additional thickness is provided on the outside diameter a taper weld having a slope not exceeding 1 to 3 may be employed or alternatively the greater outside diameter may be tapered at the same maximum slope or less from a point on the welding bevel equal to the OD at the mating pipe. Similarly, when the greater thickness is provided on the inside of the flange it shall be tapered from the welding end at a slope not exceeding 1 to 3.

When flanges covered by this standard are intended for services with light wall higher strength pipe the thickness of the hub at bevel may be greater than of the pipe to which the flanges is joined. Under these conditions a single taper hub may be provided and the outside diameter of the hub at the base (Dimension X) may also be modified.

The additional thickness may be provided on either inside or outside or partially on each side but the total additional thickness shall not exceed one half times the nominal wall thickness of intended mating pipe.



Notes

(1) When the materials joined have equal minimum specified yield strength, there shall be no restriction on the minimum slope

(2) Neither t_1 , t_2 , nor their sum (t_1+t_2) shall exceed $0.5t$.

(3) When the minimum specified yield strengths of the sections to be joined are unequal, the value of t shall at least equal times the ratio of minimum specified yield strength of the pipe to minimum specified yield strength of the flange.