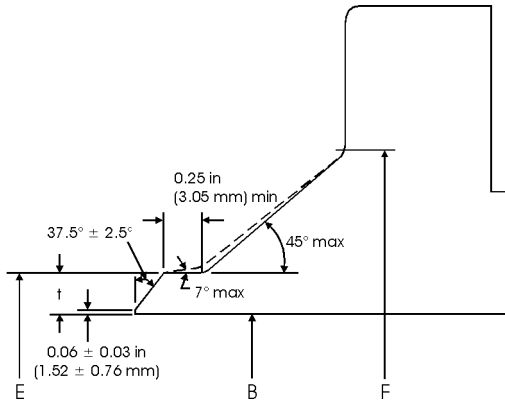
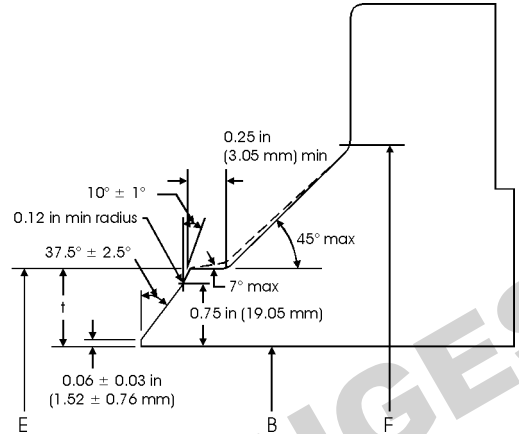


# General - ASME/ANSI B16.5 & B16.47

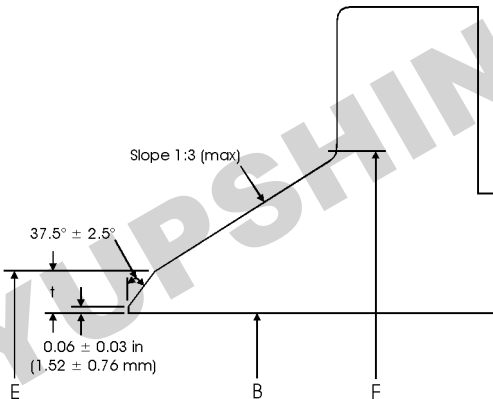
## Weld Neck Flanges - Welding Ends



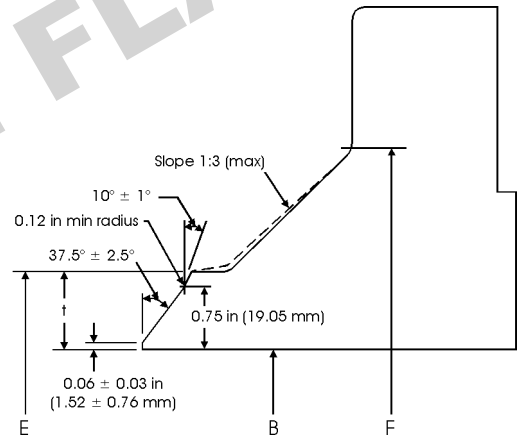
ASME/ANSI B16.5 (NPS  $1/2$  to 24) Weld Neck Flange Bevel (with no backing ring) for Wall Thicknesses (t) from 0.19 to 0.88 in (4.83 to 22.35 mm).



ASME/ANSI B16.5 (NPS  $1/2$  to 24) Weld Neck Flange Bevel (with no backing ring) for Wall Thicknesses (t) > 0.88 in (22.35 mm).



ASME B16.47 and MSS SP-44 (>NPS 24) Weld Neck Flange Bevel (with no backing ring) for Wall Thickness (t) = 0.19 to 0.88 in (4.83 to 22.35 mm).



ASME B16.47 and MSS SP-44 (>NPS 24) Weld Neck Flange Bevel (with no backing ring) for Wall Thicknesses (t) > 0.88 in (22.35 mm).

### Tolerances on welding end dimensions (ASME/ANSI B16.5 and B16.47, and MSS SP-44)

Dimension	Range	Tolerance	
		in	mm
E (outside diameter at welding end)	≤ NPS 5	+0.09, -0.03	+2.29, -0.76
	NPS 6 to 24	+0.16, -0.03	+4.06, -0.76
	≥ NPS 26	+0.21, -0.06	+5.33, -1.52
B (inside diameter of flange)	B ≤ NPS 10	±0.03	±0.76
	B ≥ NPS 12 to 18	+/-0.03	±0.76
	B ≥ NPS 20	+0.12, -0.06	+3.05, -1.52
t (thickness at weld bevel)	All	>87.5%	

#### Note

- t = Nominal wall thickness of the pipe. Additional thickness at the weld bevel (up to 0.5 x t) may be provided on the inside or outside diameter (or partially on both) of the hub if it is used with light walled higher strength pipe. Hub diameter, F, may also be increased.