

ASME B16.9 type guide

Line drawings. Type first, then NPS, schedule and grade.



90° long radius



90° short radius



45° elbow



180° return



Equal tee



Reducing tee



Concentric reducer



Eccentric reducer



Cap



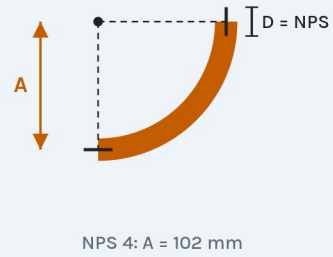
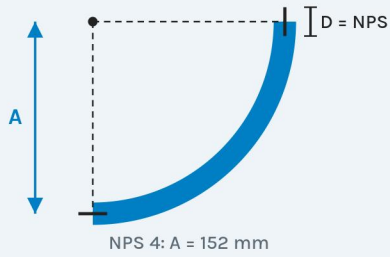
Stub end

Long-radius vs short-radius elbow — true 90° centreline

ASME B16.9. A = centreline of one end to the face of the other. D = NPS. Drawn at NPS 4.

90° long radius (A = 1.5 × NPS)

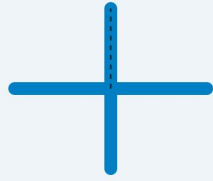
90° short radius (A = 1.0 × NPS)



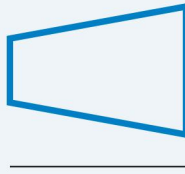
Metal Forge India · original engineering diagram · not a product photograph

B16.9 dimension letters — tee C and M, reducer H, cap E

ASME B16.9-2024 tables. C = run centre-to-end. M = outlet. Equal tee: C = M.



C (run) M (outlet)



H end to end



E face to crown

Buttweld material specs — A234 / A403 / A815 / B366

A234

Carbon / alloy steel
WPB, WP11, WP22

A403

Austenitic stainless
WP304/L, WP316/L

A815

Duplex WP fittings
Not A403

B366

Nickel alloys
C276, 625