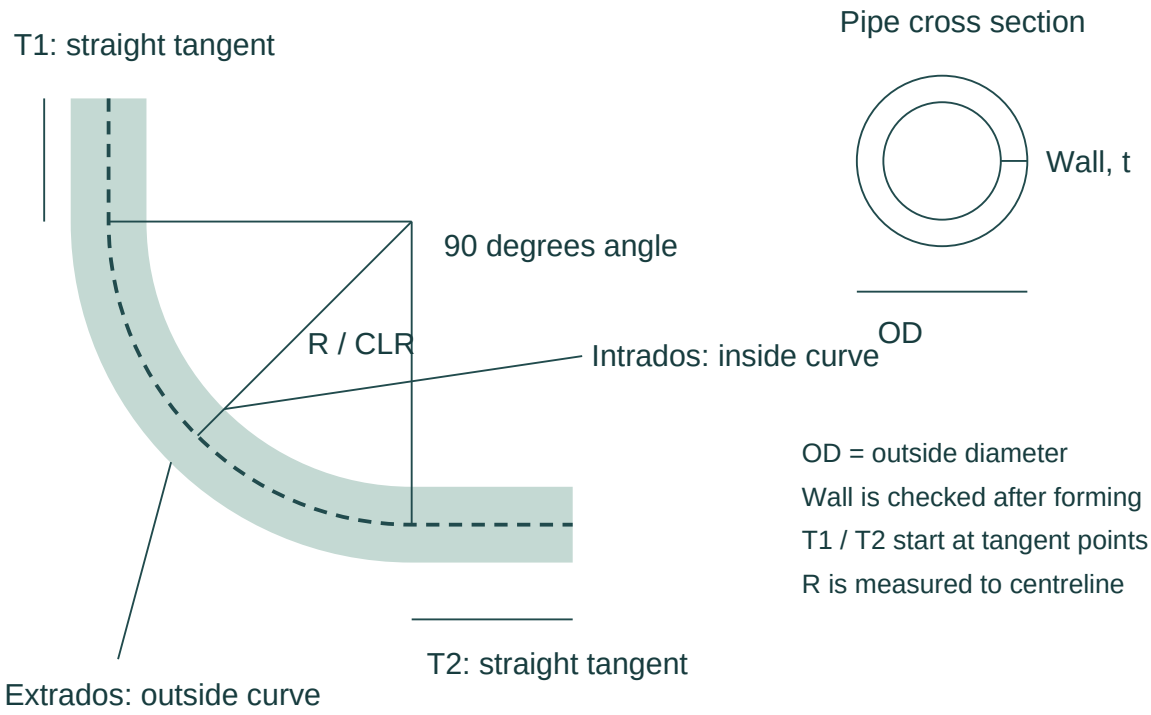
Pipe bends: 1D through 10D

R = multiplier x defined reference diameter D. Larger multipliers give wider sweeps. Confirm the D basis and centreline radius (CLR) in mm; some catalogue designations refer to bending diameter instead of radius.



Concept only | not to scale | dimensions from approved drawing

Radius description	If D = 100 mm	Key distinction
1D / 1.5D	100 / 150 mm	Common SR / LR conventions; standard tables govern.
2D / 3D	200 / 300 mm	Specify exact CLR, angle and tangent lengths.
5D / 10D	500 / 1,000 mm	Broad sweep; confirm layout and manufacturing scope.

Angle is separate from radius. A 90-degree 1D and 90-degree 5D bend change direction by the same angle but occupy different space. These arithmetic examples are not a manufacturing chart or pressure rating.

Reference: ASME B16.9 scope and approved project drawings. Standard elbow dimensions include size-specific exceptions. Confirm finished wall, ovality, tolerances, material and design suitability.

A clearer enquiry. Fewer clarifications.

Complete this checklist and attach the latest approved drawing. Enter dimensions in mm and state the applicable specification.

Company / contact: _____

Pipe size / actual OD: _____

Material grade / product specification: _____

Wall / schedule / finished minimum wall: _____

Angle / CLR in mm / D basis: _____

Straight tangents T1 and T2 (0 if none): _____

End preparation / manufacturing route: _____

Drawing number / revision / tolerances: _____

Quantity / inspection / MTC / TPI scope: _____

Delivery destination / required date: _____

Example: NPS 4, OD 114.3 mm; 90 degrees; CLR 571.5 mm (5 x actual OD); SS316L; specified product standard; SCH 40S with approved finished minimum wall; tangents 150 mm each; 6 pieces; MTC 3.1 and dimensional report. Manufacture and acceptance against the approved drawing.

Ask Steel Gems

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Scan for the visual guide and enquiry checker.

Preliminary reference only. Completeness checks do not approve pressure rating, material suitability, bend feasibility or pigging compatibility. Obtain engineering approval and a written supply offer.