

Tangential Nozzle

Nozzle oriented tangentially to the shell for swirl, mixing or separation duty.

Tangential nozzles introduce or withdraw fluid along the shell tangent, creating a swirl component for mixing, separation or gas-liquid contact. Orientation and entry angle are specified by the process design and verified during fabrication.

KEY FEATURES

- Tangential orientation for swirl and mixing
- 15° and 30° entry angles available
- Butt-weld or flanged termination
- Fit-up verified against vessel datum

SPECIFICATION

ITEM	VALUE
Size range	4–12 in
Orientation	Tangential, 15° or 30° entry
Connection	Flanged, butt weld
Reinforcement	Per ASME VIII
Material	316, 316L, alloy on request
Inspection	Dimensional, orientation, NDE on request

STANDARDS AND MATERIALS

Standards: ASME Section VIII Div. 1; ASME B16.5; ASTM A312 / A182.

Materials: ASTM A312 TP316; ASTM A182 F316L.

ORDERING RANGE

Representative configurations. The full size, material and connection range is confirmed on the order acknowledgement.

SIZE	ANGLE	CONNECTION	MATERIAL	PART NUMBER
4"	15°	Butt weld	F316	BGI-TN-0400-15-F316
6"	15°	Flanged 150	F316	BGI-TN-0600-15-F316
8"	30°	Butt weld	F316L	BGI-TN-0800-30-F316L
12"	30°	Flanged 150	F316L	BGI-TN-1200-30-F316L

APPLICATIONS

- Cyclone and separator inlets
- Mixing vessels
- Gas-liquid contact
- Swirl-generating systems

ORDERING NOTES

Confirm size, pressure class, facing or connection, material and quantity when ordering. For critical service, include the project specification, NDE requirements and documentation package. Alternative materials, coatings, tappings and special dimensions are quoted on request.

Range: Nozzles. Document reference: DS-TANGENTIAL-NOZZLE · Rev. 04.

Ordering and technical support

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Quotations are prepared against the released specification. Certified drawings are issued with the order.