

Weld Neck Flange

Butt-welded flange with a tapered hub for high-pressure and cyclic service.

The weld neck flange transfers pipe stress through a tapered hub and a butt-weld connection, making it the preferred choice for high-pressure, high-temperature and cyclic piping. The bore matches the pipe schedule to reduce turbulence and weld inspection is straightforward.

KEY FEATURES

- Tapered hub distributes stress into the pipe wall
- Butt-weld connection suitable for radiography
- Raised-face, flat-face and RTJ options
- Bore matched to pipe schedule

SPECIFICATION

ITEM	VALUE
Size range	1/2–24 in (larger on request)
Pressure class	Class 150–2500
Face type	Raised face, flat face, RTJ
Connection	Butt weld
Temperature	-29 to 425 °C (material dependent)
Inspection	Dimensional, visual, PMI on request

STANDARDS AND MATERIALS

Standards: ASME B16.5; ASME B16.47; ASTM A105 / A182.

Materials: ASTM A105; ASTM A182 F304L; ASTM A182 F316L; ASTM A350 LF2.

ORDERING RANGE

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

SIZE	CLASS	FACE	MATERIAL	PART NUMBER
2"	150	RF	A105	BGI-WN-0200-150-A105
4"	300	RF	A105	BGI-WN-0400-300-A105
6"	600	RF	F316L	BGI-WN-0600-600-F316L
8"	900	RTJ	F316L	BGI-WN-0800-900-F316L
12"	1500	RTJ	A105	BGI-WN-1200-1500-A105

APPLICATIONS

- High-pressure process piping
- Steam and condensate
- Hydrocarbon service
- Cyclic duty

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: Flanges. Document reference: DS-WELD-NECK-FLANGE · Rev. 04.

Ordering and technical support

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