

Socket Weld Flange

Compact flange for small-bore high-pressure piping with a socket weld connection.

Socket weld flanges are used on small-bore, high-pressure lines where a full-penetration butt weld is impractical. The pipe enters a recessed socket and is fillet-welded, providing a strong connection with good alignment.

KEY FEATURES

- Compact small-bore connection
- Good alignment without backing rings
- Suitable for high-pressure utility and instrument lines
- Available in Class 300–1500

SPECIFICATION

ITEM	VALUE
Size range	1/2–4 in
Pressure class	Class 300–1500
Face type	Raised face, RTJ
Connection	Socket weld
Temperature	-29 to 425 °C (material dependent)
Inspection	Dimensional, visual, weld prep check

STANDARDS AND MATERIALS

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

Materials: ASTM A105; ASTM A182 F316L.

ORDERING RANGE

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

SIZE	CLASS	FACE	MATERIAL	PART NUMBER
1/2"	300	RF	A105	BGI-SW-0050-300-A105
1"	600	RF	A105	BGI-SW-0100-600-A105
2"	900	RF	F316L	BGI-SW-0200-900-F316L
3"	1500	RTJ	F316L	BGI-SW-0300-1500-F316L

APPLICATIONS

- Small-bore high-pressure lines
- Instrument piping
- Hydraulic systems
- Steam tracing

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-SOCKET-WELD-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.