



Stainless steel flanges

Stainless steel flanges are precision-engineered components designed to connect pipes, valves, pumps, and other equipment within a piping system. These flanges provide superior corrosion resistance, mechanical strength, and durability for a wide range of industrial applications.

KEY FEATURES:

- High corrosion resistance (suitable for aggressive environments)
- Excellent mechanical properties and pressure-handling capabilities
- Compatible with high and low temperature applications
- Smooth surface finish for hygienic and aesthetic requirements
- Easy installation, maintenance, and system modification

SPECIFICATION:

- Standards: ANSI/ASME B16.5
- Materials: 304L, 316L, 321, 316Ti, etc.
- Pressure Ratings: Class 150, 300, 600, 900, 1500, 2500
- Facing Types: Raised Face (RF), Flat Face (FF), Ring Type Joint (RTJ)
- Surface Finish: Specified roughness (e.g., 125–250 AARH for raised face flanges)
- Vary based on material group and flange class

TYPES OF FLANGES:

Blind Flange: A Blind Flange is a solid round plate with bolt holes but no central bore. It is used to close off the ends of piping systems or pressure vessel openings. Blind flanges allow easy access for inspection, maintenance, or future system extensions. They are ideal for applications requiring a secure seal at the termination point.

Weld Neck Flange: The Weld Neck Flange features a long-tapered hub and is designed for high-pressure, high-temperature environments. It is butt-welded to the pipe, providing strong mechanical integrity and minimizing stress concentration. The tapered neck ensures a smooth transition between flange and pipe, reducing erosion and turbulence, and making it ideal for critical applications.

Slip-On Flange: Slip-On Flanges are easy to install and cost-effective. They slide over the pipe and are welded on both the inner and outer edges for a secure connection. Commonly used in low to moderate pressure systems, they are a preferred choice when speed and simplicity in installation are key.

Socket Weld Flange: Socket Weld Flanges are designed for small-diameter, high-pressure piping. The pipe is inserted into a recessed area of the flange and then fillet welded. This creates a smooth bore that enhances fluid or gas flow, while ensuring strong and leak-resistant connections.



Threaded Flange: Threaded Flanges also known as screwed flanges, are similar in appearance to slip-on flanges but feature a tapered threaded bore. They are ideal for low-pressure, non-critical applications and can be assembled without welding, making them suitable for systems where heat cannot be used.

Lap Joint Flange: Lap Joint Flanges are used with a matching stub end, allowing the flange to rotate for easier alignment. They are ideal for systems requiring frequent dismantling or alignment adjustments. These flanges are particularly suitable for non-critical, low-pressure applications or when space constraints require easy assembly and disassembly.

Orifice Flange: Orifice Flanges are specially designed to hold orifice plates or flow nozzles for flow measurement in piping systems. They include tapped holes for pressure gauges, eliminating the need for separate orifice carriers or tapping the pipe. These flanges are crucial in systems where precise flow monitoring is required.

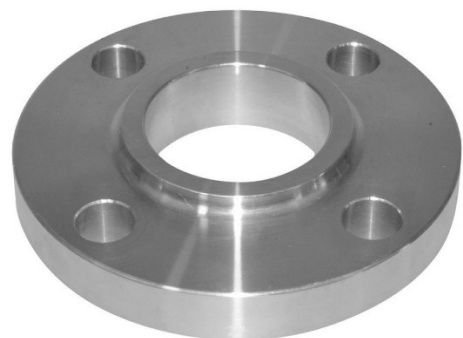
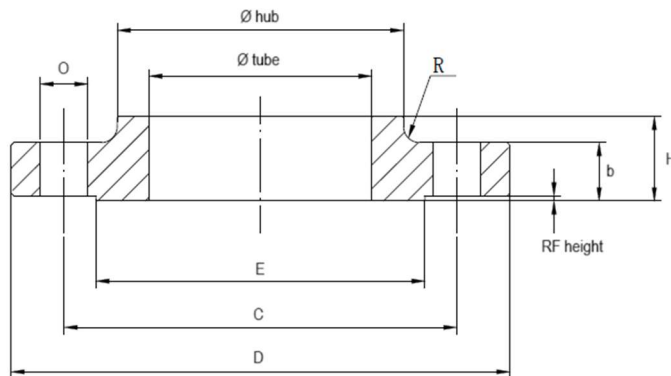
APPLICATION:

Flanges are essential components in piping systems, used to connect pipes, valves, pumps, and other equipment. They provide flexibility for maintenance, inspection, or system modification and are critical in systems requiring leak-proof, high-strength connections. Stainless steel flanges are especially valued for their corrosion resistance, strength, and durability.

- Pipeline engineering
- Oil & gas industry
- Plant engineering
- Marine industry
- Waste water management
- Food processing industry
- Chemical industry
- Power industry
- Aerospace
- Mechanical engineering
- Petrochemical industry

DRAWINGS AND DIMENSIONS:

SLIP-ON RAISED FACE FLANGES 150 LBS:



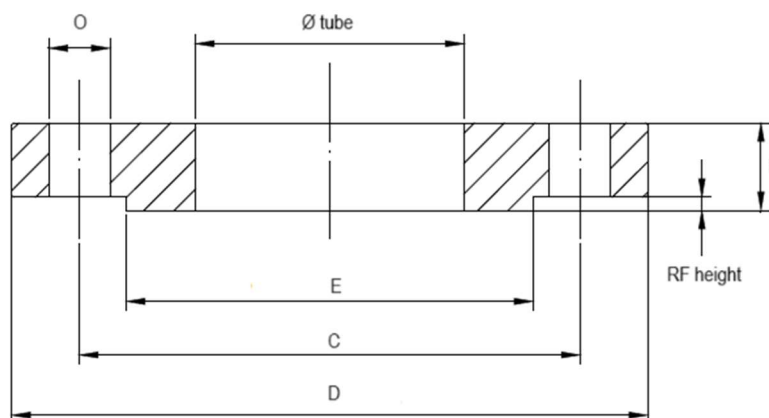
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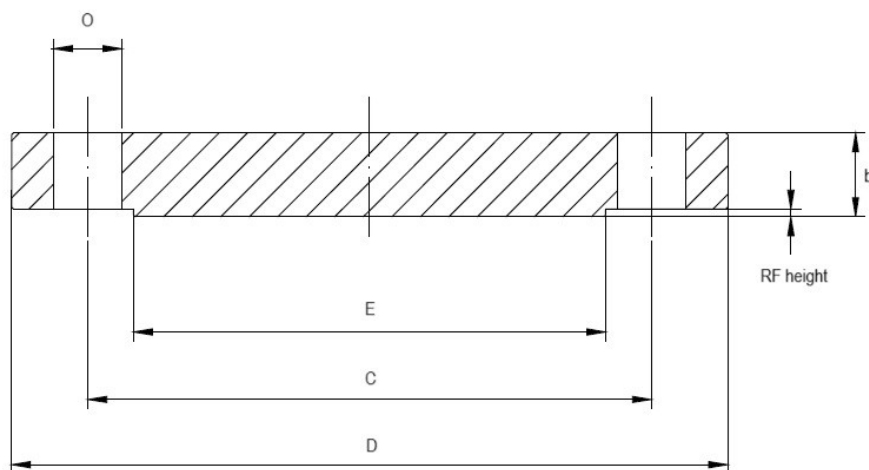
Unit: mm											
Size	D	Ø tube	C	E	H	b	RF height	R	Ø hub	O	Bolt Holes
1/2" 21,34 mm	90.00	22.20	60.30	34.90	16.00	11.60	2.00	≥ 4.5	30.00	15.90	4.00
1" 33,4 mm	110.00	34.50	79.40	50.80	18.00	14.70	2.00	≥ 4.5	49.00	15.90	4.00
1 1/2" 48,3	125.00	49.50	98.40	73.00	23.00	17.90	2.00	≥ 4.5	65.00	15.90	4.00
2" 60,3 mm	150.00	61.90	120.70	92.10	26.00	19.50	2.00	≥ 4.5	78.00	19.10	4.00
2 1/2" 73 mm	180.00	74.60	139.70	104.80	29.00	22.70	2.00	≥ 4.5	90.00	19.10	4.00

SLIP-ON RAISED FACE WITHOUT HUB (FLAT FLANGE) 150 LBS:



Unit: mm								
Size	D	Ø tube	C	E	b	RF height	O	Bolt Holes
1/2" 21,34 mm	90.00	22.20	60.30	34.90	11.60	2.00	15.90	4.00
1" 33,4 mm	110.00	34.50	79.40	50.80	14.70	2.00	15.90	4.00
1 1/2" 48,3	125.00	49.50	98.40	73.00	17.90	2.00	15.90	4.00
2" 60,3 mm	150.00	61.90	120.70	92.10	19.50	2.00	19.10	4.00
2 1/2" 73 mm	180.00	74.60	139.70	104.80	22.70	2.00	19.10	4.00

BLIND RAISED FACE FLANGE 150 LBS:



Unit: mm							
Size	D	C	E	b	RF height	O	Bolt Holes
1/2" 21,34 mm	90.00	60.30	34.90	11.60	2.00	15.90	4.00
1" 33,4 mm	110.00	79.40	50.80	14.70	2.00	15.90	4.00
1 1/2" 48,3	125.00	98.40	73.00	17.90	2.00	15.90	4.00
2" 60,3 mm	150.00	120.70	92.10	19.50	2.00	19.10	4.00
2 1/2" 73 mm	180.00	139.70	104.80	22.70	2.00	19.10	4.00

The information presented above is intended for general reference and product selection purposes. Specifications, features, and applications may vary depending on manufacturer and specific model.

Please consult the product manual or contact the supplier for detailed technical data and guidance tailored to your requirements. All images and descriptions are for illustrative purposes only and may not fully represent the actual product design.

Thank you!