

ANSI B16-5 FLANGE

Welding Neck Flange

Manufacturers of steel flanges follow ansi b16.5 standards when designing or machining a flange. A long weld neck flange, or LWN, is considered a specialty flange because of its protruding neck. The neck extends from the f...

- ISO9001 Supplier
- Class Certificate
- Export Supply



Key Highlights

Category	ANSI B16-5 Flange
Standard	DIN
Material	Carbon steel
Weight / Size	Nominal pipe size Outside Diam O.D.
Certificate	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.

Technical Specifications

Category	ANSI B16-5 Flange	Model / SKU	Welding-Neck-Flange
Standard	DIN	Material	Carbon steel
Weight / Size	Nominal pipe size Outside Diam O.D.	Surface	A long weld neck flange, or LWN, is considered a specialty flange because of its protruding neck. The neck extends from the flat surface of the flange and receives and guides the pipe into place— the neck serves as an extension of the boring. Tapering the neck provides extra reinforcement for use in high-pressure or extreme and fluctuating temperature applications.
Certificate	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS	Warranty	12 Months unless specified otherwise
Origin	China		



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Weld Neck Flanges are designed to be joined to a piping system by butt welding. Weld Neck Flanges are preferred for high stresses to the pipe, reducing stress applications. The neck, or hub, transmits stress concentration at the base of the flange. The gradual transition of thickness from the base of the hub to the wall thickness at the butt weld provides important reinforcement of the flange.

Specification:

Nominal pipe size	Outside Diam	O.D. of Raised Face	at Base of Hub	Thickness	BORE	LENGTH THRU HUB	Diam of Hub at Bevel	Radius of Fillet	Thread Length
	D	G	X	t	Welding Neck Socket Welding	Welding Neck			
					B1	T1			
1/2	89	35.1	30.2	11.2	15.7	47.8	21.3	3.0	15.7
3/4	99	42.9	38.1	12.7	20.8	52.3	26.7	3.0	15.7
1	108	50.8	49.3	14.2	26.7	55.6	33.5	3.0	17.5
1 1/4	117	63.5	58.7	15.7	35.1	57.2	42.2	4.8	20.6
1 1/2	127	73.2	65.0	17.5	40.9	62.0	48.3	6.4	22.4
2	152	91.9	77.7	19.1	52.6	63.5	60.5	7.9	25.4
2 1/2	178	104.6	90.4	22.4	62.7	69.9	73.2	7.9	28.4
3	191	127.0	108.0	23.9	78.0	69.9	88.9	9.7	30.2
3 1/2	216	139.7	122.2	23.9	90.2	71.4	101.6	9.7	31.8
4	229	157.2	134.9	23.9	102.4	76.2	114.3	11.2	33.3
5	254	185.7	163.6	23.9	128.3	88.9	141.2	11.2	36.6
6	279	215.9	192.0	25.4	154.2	88.9	168.4	12.7	39.6
8	343	269.7	246.1	28.4	202.7	101.6	219.2	12.7	44.5
10	406	323.9	304.8	30.2	254.5	101.6	273.1	12.7	49.3
12	483	381.0	365.3	31.8	304.8	114.3	323.9	12.7	55.6
14	533	412.8	400.1	35.1	336.6	127.0	355.6	12.7	57.2
16	597	469.9	457.2	36.6	387.1	127.0	406.4	12.7	63.5
18	635	533.4	505.0	39.6	438.2	139.7	457.2	12.7	68.3

20	699	584.2	558.8	42.9	489.0	144.5	508.0	12.7	73.2
24	813	692.2	663.4	47.8	590.6	152.4	609.6	12.7	82.6

