



HL FITTINGS & FLANGES

QUALITY SOURCING. EASY BUSINESS.

FLANGE DIMENSIONS

ASME / ANSI B16.5 • Class 150# to 2500#

SLIP-ON • WELDING NECK • BLIND FLANGES





COMPANY PROFILE

HL Fittings & Flanges is a trusted manufacturer, supplier, and stockist of high-quality industrial piping products serving diverse industries across India. We are committed to delivering reliable products, competitive pricing, and exceptional customer service to meet the evolving requirements of our clients.

With a strong focus on quality, precision, and timely delivery, we provide a comprehensive range of industrial products including:

- ✓ **Industrial Flanges**
- ✓ **Butt Weld Fittings**
- ✓ **Custom Components**
- ✓ **Forged Pipe Fittings**
- ✓ **Industrial Valves**
- ✓ **Gaskets**

Our products are sourced and manufactured in compliance with industry standards to ensure durability, performance, and long service life even in demanding operating conditions.



OUR MISSION & VISION



Our Mission

To provide superior quality piping solutions and industrial products that help our customers achieve operational efficiency, safety, and reliability while building long-term business relationships based on trust and transparency.



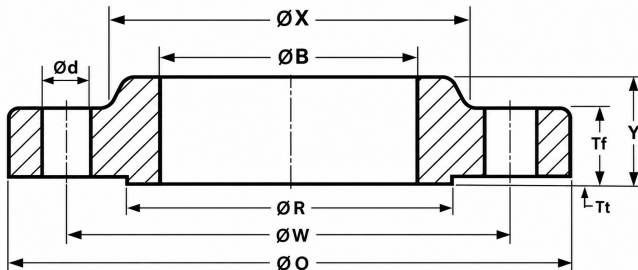
Our Vision

To become a preferred and recognized name in the industrial piping and fittings industry by consistently delivering quality products, dependable service, and value-driven solutions.



DIMENSION FOR FORGE FLANGE ANSI B 16.5

SLIP-ON FLANGE - TECHNICAL DRAWING

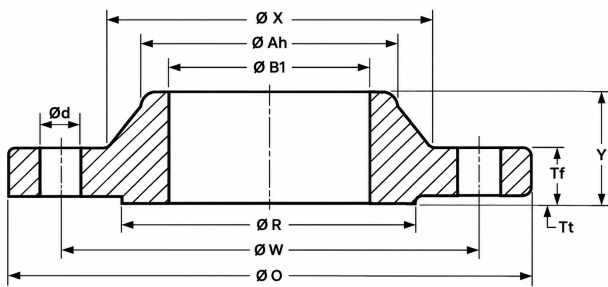


SLIP-ON FLANGE

SLIP-ON FLANGE - PRODUCT IMAGE



WELDING NECK FLANGE - TECHNICAL DRAWING

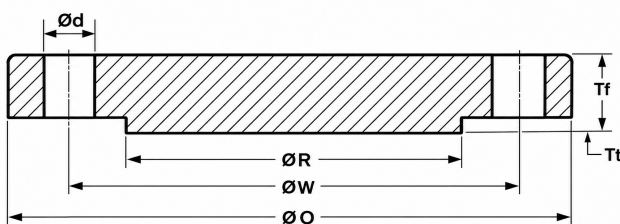


WELDING NECK FLANGE

WELDING NECK FLANGE - PRODUCT IMAGE



BLIND FLANGE - TECHNICAL DRAWING



BLIND FLANGE

BLIND FLANGE - PRODUCT IMAGE



All dimension are in Millimeters | Flanges except Lap Joint will be furnished with (1.6mm) Raised Face, Length through Hub (Y)



Flange Dimensions

ASME B16.5 - CLASS 150# FLANGE

Nominal Pipe Size		Flange Diameter	Pipe Thickness	Hub Dia		BORE			Length Through Hub			Depth of Socket SW	Raised Face	Drilling		
			SO, SW, WN, BL, THRD	SO, SW, WN, BL, THRD	Bevel End Dia (WN)	SO	U	WN U	SO, SW, THRD	U	WN		Dia	PCD	Hole Dia	No. of Holes
NPS	DN	O	TI	X	Ah	B	B	B1	Y	Y	Y	D	R	W	d	n
1/2"	15 NB	120	22.30	38	21.30	22.20	22.90	15.80	39	32	67	10	34.90	82.60	22.20	4
3/4"	20 NB	130	25.40	44	26.70	27.70	28.20	20.90	42	35	77	11	42.90	88.90	22.20	4
1"	25 NB	150	28.60	52	33.40	34.50	34.90	26.60	48	41	80	13	50.80	101.60	25.40	4
1-1/4"	32 NB	160	28.60	64	42.20	43.20	43.70	35.10	48	41	80	14	63.50	111.10	25.40	4
1-1/2"	40 NB	180	31.80	70	48.30	49.50	50.00	40.90	51	44	90	16	73.00	123.80	28.60	4
2"	50 NB	215	38.10	105	60.30	61.90	62.50	52.50	64	57	109	17	92.10	165.10	25.40	8
2-1/2"	60 NB	245	41.30	124	73.00	74.60	75.40	62.70	71	64	112	19	104.80	190.50	28.60	8
3"	80 NB	265	47.70	133	88.90	90.70	91.40	77.90	80	73	124	21	127.00	203.20	31.70	8
4"	100 NB	310	54.00	162	114.30	116.10	116.80	102.30	97	90	131	24	157.20	241.30	34.90	8
5"	125 NB	375	73.10	197	141.30	143.80	144.40	128.20	112	105	163	24	185.70	292.60	41.30	8
6"	150 NB	395	82.60	229	168.30	170.70	171.40	154.10	126	119	178	27	215.90	317.50	38.10	12
8"	200 NB	485	92.10	292	219.10	221.50	222.20	202.70	150	143	220	32	269.90	393.70	44.40	12
10"	250 NB	585	108.00	368	273.00	276.50	277.40	254.60	185	178	261	33	323.80	482.60	50.80	12
12"	300 NB	675	123.90	451	323.00	327.00	328.20	304.80	226	219	290	40	381.00	571.50	54.00	16
14"	350 NB	750	133.40	495	355.60	359.20	360.20	336.50	248	241	305	41	412.80	635.00	60.30	16
16"	400 NB	825	146.10	552	406.40	410.50	411.20	387.30	267	260	318	44	469.90	704.80	66.70	16
18"	450 NB	915	162.00	597	457.00	461.80	462.30	438.10	283	276	334	49	533.40	774.70	73.00	16
20"	500 NB	985	177.80	641	508.00	513.10	514.40	488.90	299	292	363	54	584.20	831.80	79.40	16
24"	600 NB	1170	203.20	762	610.00	616.00	616.00	590.50	337	330	413	64	692.20	990.60	92.10	16

All dimension are in Millimeters | Flanges except Lap Joint will be furnished with (1.6mm) Raised Face, Length through Hub (Y)



ASME B16.5 - CLASS 300# FLANGE

Nominal Pipe Size		Flange Diameter	Pipe Thickness	Hub Dia		BORE			Length Through Hub			Depth of Socket SW	Raised Face	Drilling		
			SO, SW, WN, BL, THRD	SO, SW, WN, BL, THRD	Bevel End Dia (WN)	SO	U	WN U	SO, SW, THRD	U	WN		Dia	PCD	Hole Dia	No. of Holes
NPS	DN	O	TI	X	Ah	B	B	B1	Y	Y	Y	D	R	W	d	n
1/2"	15 NB	95	12.70	38	21.30	22.20	22.90	15.80	23	22	53	10	34.90	66.70	15.90	4
3/4"	20 NB	115	14.30	48	26.70	27.70	28.20	20.90	26	25	58	11	42.90	82.60	19.00	4
1"	25 NB	125	15.90	54	33.40	34.50	34.90	26.60	27	27	62	13	50.80	88.90	19.00	4
1-1/4"	32 NB	135	17.50	64	42.20	43.20	43.70	35.10	27	27	66	14	63.50	98.40	19.00	4
1-1/2"	40 NB	155	19.10	70	48.30	49.50	50.00	40.90	31	30	69	16	73.00	114.30	22.20	8
2"	50 NB	165	20.70	84	60.30	61.90	62.50	52.50	34	33	70	17	92.10	127.00	19.00	8
2-1/2"	60 NB	190	23.90	100	73.00	74.60	75.40	62.70	39	38	77	19	104.80	149.20	22.20	8
3"	80 NB	210	27.00	117	88.90	90.70	91.40	77.90	43	43	80	21	127.00	168.30	22.20	8
3-1/2"	90 NB	230	28.60	133	101.60	103.40	104.10	90.10	45	44	81	22	139.70	184.20	22.20	8
4"	100 NB	255	30.20	146	114.30	116.10	116.80	102.30	48	48	86	24	157.20	200.00	22.20	8
5"	125 NB	280	33.40	178	141.30	143.80	144.40	128.20	51	51	99	24	185.70	235.00	22.20	12
6"	150 NB	320	35.00	206	168.30	170.70	171.40	154.10	53	52	99	27	215.90	269.90	25.40	12
8"	200 NB	380	39.70	260	219.10	221.50	222.20	202.70	62	62	112	32	269.90	330.20	28.60	12
10"	250 NB	445	46.10	321	273.00	276.50	277.40	254.60	67	95	118	33	323.80	387.40	31.70	16
12"	300 NB	520	49.30	375	323.80	327.00	328.20	304.80	73	102	131	40	381.00	450.80	31.70	16
14"	350 NB	585	52.40	425	355.60	359.20	360.20	336.50	77	111	143	41	412.80	514.40	31.70	20
16"	400 NB	650	55.60	483	406.40	410.50	411.20	387.30	83	121	146	44	469.90	571.50	34.90	24
18"	450 NB	710	58.80	533	457.00	461.80	462.30	438.10	89	130	159	49	533.40	628.60	34.90	24
20"	500 NB	775	62.00	587	508.00	513.10	514.40	488.90	96	140	162	54	584.20	685.80	34.90	24
24"	600 NB	915	68.30	702	610.00	616.00	616.00	590.50	107	152	169	64	692.20	812.80	41.30	24

All dimension are in Millimeters | Flanges except Lap Joint will be furnished with (1.6mm) Raised Face, Length through Hub (Y)



Flange Dimensions

ASME B16.5 - CLASS 600# FLANGE

Nominal Pipe Size		Flange Diameter	Pipe Thickness	Hub Dia		BORE			Length Through Hub			Depth of Socket SW	Raised Face	Drilling		
			SO, SW, WN, BL, THRD	SO, SW, WN, BL, THRD	Bevel End Dia (WN)	SO	U	WN U	SO, SW, THRD	U	WN		Dia	PCD	Hole Dia	No. of Holes
NPS	DN	O	TI	X	Ah	B	B	B1	Y	Y	Y	D	R	W	d	n
1/2"	15 NB	95	14.30	38	21.30	22.20	22.90	15.80	29	22	59	10	34.90	66.70	15.90	4
3/4"	20 NB	115	15.90	48	26.70	27.70	28.20	20.90	32	25	64	11	42.90	82.60	19.00	4
1"	25 NB	125	17.50	54	33.40	34.50	34.90	26.60	34	27	69	13	50.80	88.90	19.00	4
1-1/4"	32 NB	135	20.70	64	42.20	43.20	43.70	35.10	36	29	74	14	63.50	98.40	19.00	4
1-1/2"	40 NB	155	22.30	70	48.30	49.50	50.00	40.90	39	32	77	16	73.00	114.30	22.20	4
2"	50 NB	165	25.40	84	60.30	61.90	62.50	52.50	44	37	80	17	92.10	127.00	19.00	8
2-1/2"	60 NB	190	28.60	100	73.00	74.60	75.40	62.70	48	41	86	19	104.80	149.20	22.20	8
3"	80 NB	210	31.80	117	88.90	90.70	91.40	77.90	53	46	90	21	127.00	168.30	22.20	8
3-1/2"	90 NB	230	35.00	133	101.60	103.40	104.10	90.10	56	49	93	22	139.70	184.20	25.40	8
4"	100 NB	275	38.10	152	114.30	116.10	116.80	102.30	61	54	109	24	157.20	215.90	25.40	8
5"	125 NB	330	44.50	189	141.30	143.80	144.40	128.20	67	60	121	24	185.70	266.70	28.60	8
6"	150 NB	355	47.70	222	168.30	170.70	171.40	154.10	74	67	124	27	215.90	292.10	28.60	12
8"	200 NB	420	55.60	273	219.10	221.50	222.20	202.70	83	76	140	32	269.90	349.20	31.70	12
10"	250 NB	510	63.50	343	273.00	276.20	277.40	254.60	93	111	159	33	323.80	431.80	34.90	16
12"	300 NB	560	66.70	400	323.80	327.00	328.20	304.80	99	117	163	40	381.00	489.00	34.90	20
14"	350 NB	605	69.90	432	355.60	359.20	360.20	336.50	101	127	172	41	412.80	527.00	38.10	20
16"	400 NB	685	76.20	495	406.40	410.50	411.20	387.30	113	140	185	44	469.90	603.20	41.30	20
18"	450 NB	745	82.60	546	457.00	461.80	462.30	438.10	124	152	191	49	533.40	654.00	44.40	20
20"	500 NB	815	88.90	610	508.00	513.10	514.40	488.90	134	165	197	54	584.20	723.90	44.40	24
24"	600 NB	940	101.60	718	610.00	616.00	616.00	590.50	147	184	210	64	692.20	838.20	50.80	24

All dimension are in Millimeters | Flanges except Lap Joint will be furnished with (1.6mm) Raised Face, Length through Hub (Y)



Flange Dimensions

ASME B16.5 - CLASS 900# FLANGE

Nominal Pipe Size		Flange Diameter	Pipe Thickness	Hub Dia		BORE			Length Through Hub			Depth of Socket SW	Raised Face	Drilling		
			SO, SW, WN, BL, THRD	SO, SW, WN, BL, THRD	Bevel End Dia (WN)	SO	U	WN U	SO, SW, THRD	U	WN		Dia	PCD	Hole Dia	No. of Holes
NPS	DN	O	TI	X	Ah	B	B	B1	Y	Y	Y	D	R	W	d	n
1/2"	15 NB	120	22.30	38	21.30	22.20	22.90	15.80	39	32	67	10	34.90	82.60	22.20	4
3/4"	20 NB	130	25.40	44	26.70	27.70	28.20	20.90	42	35	77	11	42.90	88.90	22.20	4
1"	25 NB	150	28.60	52	33.40	34.50	34.90	26.60	48	41	80	13	50.80	101.60	25.40	4
1-1/4"	32 NB	160	28.60	64	42.20	43.20	43.70	35.10	48	41	80	14	63.50	111.10	28.60	4
1-1/2"	40 NB	180	31.80	70	48.30	49.50	50.00	40.90	51	44	90	17	73.00	123.80	25.40	4
2"	50 NB	215	38.10	105	60.30	61.90	62.50	52.50	64	57	109	19	92.10	165.10	28.60	8
2-1/2"	60 NB	245	41.30	124	73.00	74.60	75.40	62.70	71	64	112	19	104.80	190.50	28.60	8
3"	80 NB	240	38.10	127	88.90	90.70	91.40	77.90	61	54	109	21	127.00	190.50	31.70	8
3-1/2"	90 NB	230	35.00	133	101.60	103.40	104.10	90.10	56	49	93	22	139.70	184.20	25.40	8
4"	100 NB	290	44.50	159	114.30	116.10	116.80	102.30	77	70	121	24	157.20	235.00	31.70	8
5"	125 NB	350	50.80	190	141.30	143.80	144.40	128.20	86	79	134	24	185.70	279.40	34.90	8
6"	150 NB	380	55.60	235	168.30	170.70	171.40	154.10	93	86	147	27	215.90	317.50	31.70	12
8"	200 NB	470	63.50	298	219.10	221.50	222.20	202.70	109	114	169	32	269.90	393.70	38.10	16
10"	250 NB	545	69.90	368	273.00	276.50	277.40	254.60	115	127	191	33	323.80	469.90	38.10	20
12"	300 NB	610	79.40	419	323.80	327.00	328.20	304.80	124	143	207	40	381.00	533.40	38.10	20
14"	350 NB	640	85.80	451	355.60	359.20	360.20	336.50	137	156	220	41	412.80	558.80	41.30	20
16"	400 NB	705	88.90	508	406.40	410.50	411.20	387.30	140	165	223	44	469.90	616.00	44.40	20
18"	450 NB	785	101.60	565	457.00	461.80	462.30	438.10	159	190	236	49	533.40	685.80	50.80	20
20"	500 NB	855	108.00	622	508.00	513.10	514.40	488.90	166	210	255	54	584.20	749.30	54.00	20
24"	600 NB	1040	139.70	749	610.00	616.00	616.00	590.50	210	267	299	64	692.20	901.70	66.70	20

All dimension are in Millimeters | Flanges except Lap Joint will be furnished with (1.6mm) Raised Face, Length through Hub (Y)



Flange Dimensions

ASME B16.5 - CLASS 1500# FLANGE

Nominal Pipe Size		Flange Diameter	Pipe Thickness	Hub Dia		BORE			Length Through Hub			Depth of Socket SW	Raised Face	Drilling		
			SO, SW, WN, BL, THRD	SO, SW, WN, BL, THRD	Bevel End Dia (WN)	SO	U	WN U	SO, SW, THRD	U	WN		Dia	PCD	Hole Dia	No. of Holes
NPS	DN	O	TI	X	Ah	B	B	B1	Y	Y	Y	D	R	W	d	n
1/2"	15 NB	120	22.30	38	21.30	22.20	22.90	15.80	39	32	67	10	34.90	82.60	22.20	4
3/4"	20 NB	130	25.40	44	26.70	27.70	28.20	20.90	42	35	77	11	42.90	88.90	22.20	4
1"	25 NB	150	28.60	52	33.40	34.50	34.90	26.60	48	41	80	13	50.80	101.60	25.40	4
1-1/4"	32 NB	160	28.60	64	42.20	43.20	43.70	35.10	48	41	80	14	63.50	111.10	28.60	4
1-1/2"	40 NB	180	31.80	70	48.30	49.50	50.00	40.90	51	44	90	17	73.00	123.80	25.40	8
2"	50 NB	215	38.10	105	60.30	61.90	62.50	52.50	64	57	109	19	92.10	165.10	28.60	8
2-1/2"	60 NB	245	41.30	124	73.00	74.60	75.40	62.70	71	64	112	19	104.80	190.50	28.60	8
3"	80 NB	265	47.70	133	88.90	90.70	91.40	77.90	80	73	124	21	127.00	203.20	31.70	8
4"	100 NB	310	54.00	162	114.30	116.10	116.80	102.30	97	90	131	24	157.20	241.30	34.90	8
5"	125 NB	375	73.10	197	141.30	143.80	144.40	128.20	112	105	163	24	185.70	292.10	38.10	12
6"	150 NB	395	82.60	229	168.30	170.70	171.40	154.10	126	119	178	27	215.90	317.50	38.10	12
8"	200 NB	485	92.10	292	219.10	221.50	222.20	202.70	150	143	220	32	269.90	393.70	44.40	12
10"	250 NB	585	108.00	368	273.00	276.50	277.40	254.60	185	178	261	33	323.80	482.60	50.80	16
12"	300 NB	675	123.90	451	323.80	327.00	328.20	304.80	226	219	290	40	381.00	571.50	60.30	16
14"	350 NB	750	133.40	495	355.60	359.20	360.20	336.50	248	241	305	41	412.80	635.00	66.70	16
16"	400 NB	825	146.10	552	406.40	410.50	411.20	387.30	267	260	318	44	469.90	704.80	73.00	16
18"	450 NB	915	162.00	597	457.00	461.80	462.30	438.10	283	276	334	49	533.40	774.70	79.40	16
20"	500 NB	985	177.80	641	508.00	513.10	514.40	488.90	299	292	363	54	584.20	831.80	79.40	16
24"	600 NB	1170	203.20	762	610.00	616.00	616.00	590.50	337	330	413	64	692.20	990.60	92.10	16

All dimension are in Millimeters | Flanges except Lap Joint will be furnished with (1.6mm) Raised Face, Length through Hub (Y)



Flange Dimensions

ASME B16.5 - CLASS 2500# FLANGE

Nominal Pipe Size		Flange Diameter	Pipe Thickness	Hub Dia		BORE			Length Through Hub			Depth of Socket SW	Raised Face	Drilling		
			SO, SW, WN, BL, THRD	SO, SW, WN, BL, THRD	Bevel End Dia (WN)	SO	U	WN U	SO, SW, THRD	U	WN		Dia	PCD	Hole Dia	No. of Holes
NPS	DN	O	TI	X	Ah	B	B	B1	Y	Y	Y	D	R	W	d	n
1/2"	15 NB	135	30.20	43	21.30	22.20	22.90	15.80	47	40	80	10	34.90	88.90	22.20	4
3/4"	20 NB	140	31.80	51	26.70	27.70	28.20	20.90	50	43	86	11	42.90	95.20	22.20	4
1"	25 NB	160	35.00	57	33.40	34.50	34.90	26.60	55	48	96	13	50.80	108.00	25.40	4
1-1/4"	32 NB	185	38.10	73	42.20	43.20	43.70	35.10	59	52	102	14	63.50	130.20	28.60	4
1-1/2"	40 NB	205	44.50	79	48.30	49.50	50.00	40.90	67	60	118	16	73.00	146.00	31.70	4
2"	50 NB	235	50.90	95	60.30	61.90	62.50	52.50	77	70	134	17	92.10	171.40	28.60	8
2-1/2"	60 NB	265	57.20	114	73.00	74.60	75.40	62.70	86	79	150	19	104.80	196.80	31.70	8
3"	80 NB	305	66.70	133	88.90	90.70	91.40	77.90	99	92	175	21	127.00	228.60	34.90	8
4"	100 NB	355	76.20	165	114.30	116.10	116.80	102.30	115	108	197	24	157.20	273.00	41.30	8
5"	125 NB	420	92.10	203	141.30	143.80	144.40	128.20	137	130	236	24	185.70	323.80	47.60	8
6"	150 NB	485	108.00	235	168.30	170.70	171.40	154.10	159	152	280	27	215.90	368.30	54.00	8
8"	200 NB	550	127.00	305	219.10	221.50	222.20	202.70	185	178	325	32	269.90	438.20	54.00	12
10"	250 NB	675	165.10	375	273.00	276.20	277.40	254.60	236	229	426	33	323.80	539.80	66.70	12
12"	300 NB	760	184.20	441	323.80	327.00	328.20	304.80	261	254	471	40	381.00	619.10	73.00	12

All dimension are in Millimeters | Flanges except Lap Joint will be furnished with (1.6mm) Raised Face, Length through Hub (Y)



HL FITTINGS & FLANGES

QUALITY SOURCING. EASY BUSINESS.



REGISTERED ADDRESS

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