



ALFA LTD

BUTTWELD FITTINGS & FLANGES





ALFA – UK LTD.

ALFA-UK is established in early 2000 and is a professional supplier of all kinds of Pipe Fittings and Flanges. With constant technological upgradation and to the fullest customer satisfaction, the company is undoubtedly the brand leader in fittings and Flanges in the oilfield and Construction sectors. We are equipped with the most modern facilities and a highly qualified workforce, enabling us to offer the widest possible range of fittings and flanges. Our product line embodies the highest standards in quality, productivity and dependability.

ALFA-UK will make an exceptional effort to achieve continuous improvement in everything we do. We will deliver defect-free products and services on time to our customers. Our foremost objective is to do all of our tasks right the first time in meeting the requirements of the customer. Quality assurance figures at the raw material stage and persists through all departments until it reaches the customer. We strive to maximize return on our resources and assets through careful capital management, well reasoned risk taking and the establishment of long-term goals for constant growth, integrity and honorable behavior are the integral part of our values.

We, **ALFA-UK**, with many years of experience and expertise, utilize original cutting-edge technologies to our advantage in providing quality products that support the basic needs of life. **ALFA-UK** flanges and fittings are designed and manufactured to withstand some of the world's harshest conditions, which they often need to endure in specialized market sectors such as oil & gas, petrochemicals, power generation and mineral refining.

Our regional warehouses can respond quickly to your needs, your problems and your shipment. All our products are exported to most parts of the world, such North and South America, Europe, Russian countries and Middle East.

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Alfa Butt weld fittings are made of high quality materials through earthing and precision process, conform to ANSI B16.9, ASTM A234, WPB Standards, JIS 2311 and DIN 2605.

Alfa Butt weld fittings have all specification from 1/8" to 36"

Concentric and Eccentric Reducers, Equal and Reducing Tees, 45° and 90° Elbows, Butt weld Caps and Stub Ends, are all part of the comprehensive range of Butt weld fittings carried by **ALFA-UK LTD**.

All our Butt weld fittings conform to relevant material and dimensional specifications and can be supplied complete with material certificates.

A pipe fitting is defined as a part used in a piping system, to change direction or function, which is mechanically joined to the system.

TYPES AND APPLICATIONS OF BUTTWELD FITTINGS

A piping system using Butt weld fittings has many inherent advantages over other forms.

- ◆ Welding a fitting to the pipe means it is permanently leakproof.
- ◆ The continuous metal structure formed between pipe and fittings adds strength to the system.
- ◆ Smooth inner surface and gradual directional changes reduce pressure losses and turbulence and minimise the action of corrosion and erosion.
- ◆ A welded systems utilises a minimum of space.

APPLICABLE STANDARDS

- ◆ **ALFA Butt weld fittings** are manufactured, as a rule, in accordance with ASME standards B16.9 and B16.28 for dimensions, shapes and tolerances.
- ◆ **ALFA Butt weld fittings** are machined in accordance with ASME B16.25 standards for welding and preparation.
- ◆ Manufacturing methods, quality and so on are based upon ASTM A234, A403 and A420 specifications.
- ◆ Butt weld fittings conforming to dimensions and dimensional tolerances specified in MSS SP-43 can be manufactured on application.
- ◆ Butt weld fittings conforming to MSS SP-75 can be specially manufactured on application.
- ◆ **ALFA** has standardized dimensions and dimensional tolerances for Butt weld fittings of 50 inches and larger as no internationally recognized standards exist.

ASME STANDARDS

B16.9	Wrought Steel Butt weld fittings
B16.28	Wrought Steel Butt weld Short Radius and Returns
B16.25	Butt weld Ends
B16.11	Forged Fittings, Socket-Welding and Threaded
B36.10	Welded and Seamless Wrought Steel Pipe
B36.19	Stainless Steel Pipe

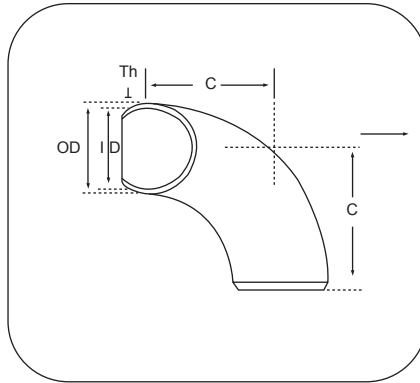
ASTM STANDARDS

A234	Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and High Temperatures Service
A403	Wrought Austenitic Stainless Steel Piping Fittings
A420	Piping Fittings of Wrought Carbon Steel and Alloy Steel for Low-Temperature Service

MSS STANDARDS

SP-43	Wrought Stainless Steel Butt weld Fittings
SP-75	High Test Wrought Butt weld Fittings

BUTTWELD FITTINGS



90° ELBOWS

The functions of a 90° elbow is to change direction or flow in a piping systems.

Elbows are split into three groups which define the distance over which they change direction, expressed as a function of the distance from the centre line of one end to the opposite face.

This is known as the centre to face

distance and is equivalent to the radius through which the elbow is bent.

LONG RADIUS ELBOW

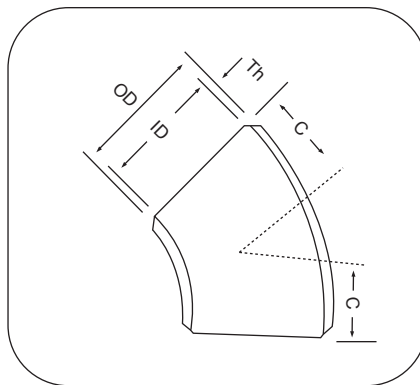
The most common is the long radius (L.R) elbow where the centre to face dimension is always 1 1/2 times the nominal pipe size of the elbow.

SHORT RADIUS ELBOW

In this case the centre to face dimension is the same as the nominal pipe size of the elbow.

EXTRA LONG RADIUS

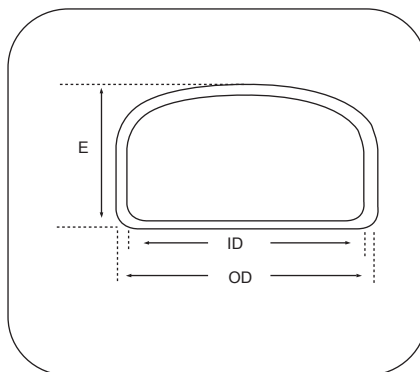
This is where the centre to face dimension is longer than the standard long radius type. The most common of these is where the centre to face dimension is three times the nominal size. i.e 3D



45° ELBOWS

The function of 45° Elbow is the same as a 90° Elbow, but the measurement of dimensions, however, is different to that of the 90° Elbow. The radius of a 45° Elbow is the same as the radius of the 90° L.R. Elbow where 'R' equals 1½ D. However, the centre to face dimension is not equivalent to the radius as in 90° L.R. Elbows, This is measured from each face to the point of intersection of the

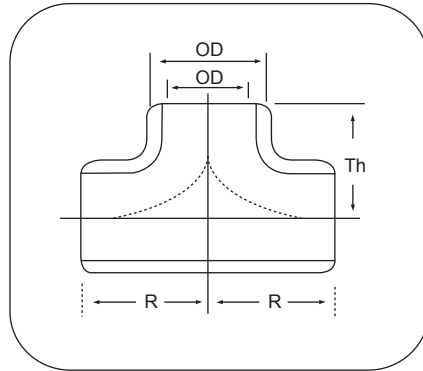
centre lines perpendicular to each other. This is due to the smaller degree of bend.



CAPS

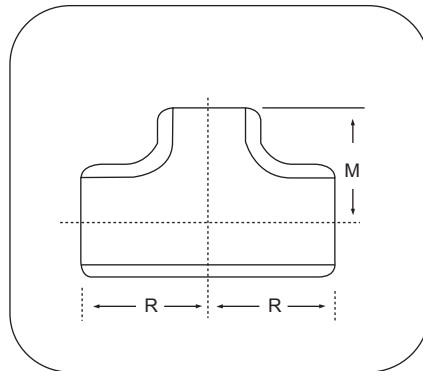
The function of an end cap is to block off the end of a line in piping systems. This is achieved by placing the end cap over the open line and welding around the joint.

EQUAL TEES



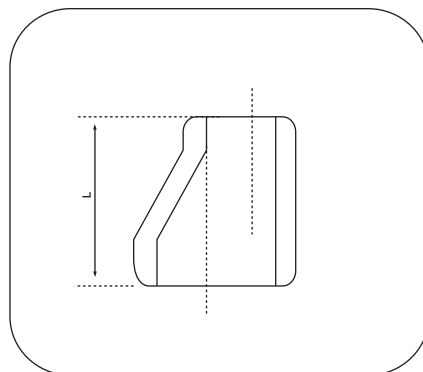
The function of a Tee is to permit flow at 90° to the main direction of flow. The Main flow passes through the 'run' whilst the 90° outlet is known as the 'branch'. The equal Tee is manufactured with all three outlets being the same size.

REDUCING TEES



The Reducing Tee is manufactured with the branch outlet smaller than the run to obtain the desired flow and pressure through the system.

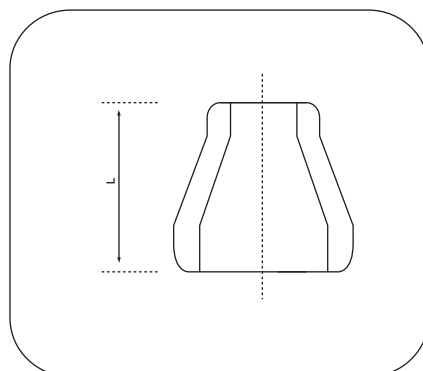
ECCENTRIC REDUCERS



The function of both types of reducer is to reduce the line from a larger to a smaller pipe size, this obviously results in an increased flow pressure.

With the Eccentric Reducer the smaller outlet end is off centre to the larger end enabling it to line up with one side of the inlet and not with the other.

CONCENTRIC REDUCERS



The Concentric Reducer is so manufactured that both inlet and outlet ends are on a common centre line. The Concentric reducer is easier and less expensive to produce but does not allow quite the same versatility as the Eccentric Reducer. The lengths of both types are fixed by manufacturing standards.

Technical Specification- Sizes, Dimensions and Weights

NPT (inch)	DN (mm)	OUTSIDE DIAMETER AT BEVEL (mm)	CENTRE- TO-END (mm)	CENTRE- TO-END (mm)	STANDARD WEIGHT			EXTRA STRONG		
					WALL THICKNESS (mm)	APPROX WEIGHT (kg)	APPROX WEIGHT (kg)	WALL THICKNESS (mm)	APPROX WEIGHT (kg)	APPROX WEIGHT (kg)
			45°	90°		45°	90°		45°	90°
		OD	C	C	Th			Th		
2	50	60	35	76	3.91	0.35	0.68	5.54	0.47	0.9
2½	65	73	44	95	5.16	0.75	0.35	7.01	0.86	1.8
3	80	89	51	114	5.49	1.01	2.03	7.62	1.39	2.7
3½	90	102	57	133	5.74	1.42	2.8	8.08	2.14	3.83
4	100	114	64	152	6.02	1.91	3.8	8.56	2.65	5.4
5	125	141	79	190	6.55	3.26	6.4	9.53	4.65	9
6	150	168	95	229	7.11	5.18	10.4	10.97	7.5	14
8	200	219	127	305	8.18	10	20	12.7	15	31
10	250	273	159	381	9.27	18	35	12.7	24	50
12	300	324	190	457	9.53	27	53	12.7	33	68
14	350	356	222	533	9.53	33	66	12.7	43	86
16	400	406	254	610	9.53	46	91	12.7	59	116
18	450	457	286	686	9.53	58	115	12.7	77	147
20	500	508	318	762	9.53	70	139	12.7	92	189
22	550	559	343	838	9.53	89	177	12.7	117	234
24	600	610	381	914	9.53	100	201	12.7	133	273
26	650	660	406	991	9.53	124	247	12.7	164	328
30	750	762	470	1143	9.53	165	331	12.7	214	429
36	900	914	565	1372	9.53	239	478	12.7	318	635
42	1100	1067	660	1600	9.53	320	616	12.7	428	820

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Technical Specification- Sizes, Dimensions and Weights

NPT (inch)	DN (mm)	OUTSIDE DIAMETER AT BEVEL (mm)	CENTRE- TO-END RUN (mm)	CENTRE- TO-END OUTLET (mm)	STANDARD WEIGHT				EXTRA STRONG			
					WALL THICKNESS (mm)	APPROX WEIGHT (kg)	NOMINAL LENGTH (mm)	APPROX WEIGHT (kg)	WALL THICKNESS (mm)	APPROX WEIGHT (kg)	NOMINAL LENGTH (mm)	APPROX WEIGHT (kg)
						TEE	CAPS	CAPS		TEE	CAPS	CAPS
		OD	R	M	Th		E		Th		E	
2	50	60	64	64	3.91	0.9	38	0.27	5.54	1.3	38	0.36
2½	65	73	76	76	5.16	1.8	38	0.41	7.01	2.6	38	0.45
3	80	89	86	86	5.49	2.7	51	0.64	7.62	3.5	51	0.91
3½	90	102	95	95	5.74	3.4	64	1	8.08	4.5	64	1.3
4	100	114	105	105	6.02	4.6	64	1.4	8.56	6.3	64	1.6
5	125	141	124	124	6.55	7.3	76	2	9.53	10.4	76	2.6
6	150	168	143	143	7.11	10.7	89	3.3	10.97	17	89	4.2
8	200	219	178	178	8.18	20	102	5.4	12.7	30	102	6.8
10	250	273	216	216	9.27	34	127	8.2	12.7	50	127	11.3
12	300	324	254	254	9.53	56.7	152	12	12.7	74	152	16
14	350	356	279	279	9.53	71.55	165	15	12.7	101	165	20
16	400	406	305	305	9.53	99	178	19	12.7	119	178	25
18	450	457	343	343	9.53	132.8	203	25	12.7	161	203	33
20	500	508	381	381	9.53	163.4	229	31	12.7	203	229	41
22	550	559	419	419	9.53	202	254	39	12.7	243	254	50
24	600	610	432	432	9.53	259	267	44	12.7	281	267	58
26	650	660	495	495	9.53	295	267	50	12.7	378	267	66
30	750	762	559	559	9.53	455	267	60	12.7	529	267	79
36	900	914	673	673	9.53	653	267	87	12.7	743	267	107
42	1100	1067	762	711	9.53	779	305	102	12.7	887	305	134

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Reducing Tees & Reducers

ASTM A 234 WPB ANSI B16.9 ANSI B16.28

Technical Specification- Sizes, Dimensions and Weights										
REDUCING TEE		ECCENTRIC REDUCER					CONCENTRIC REDUCER			
RUN		OUTLET or REDUCED END		NOMINAL CENTER TO END OF TEES		NOMINAL LENGTH REDUCERS (mm)	APPROXIMATE WEIGHTS			
NPS (INCH)	DN (mm)	NPS (INCH)	DN (mm)	RUN (mm)	OUTLET (mm)		STANDARD (kg)		EXTRA STRONG (kg)	
				R	M	L	TEE	REDUCER	TEE	REDUCER
2	50	3/4	20	64	44	76	0.91	0.37	1.22	0.4
		1	25	64	51	76	0.91	0.4	1.22	0.41
		1 1/4	32	64	57	76	0.95	0.43	1.27	0.46
2 1/2	65	1 1/2	40	64	60	76	1	0.47	1.27	0.54
		1	25	76	57	89	1.36	0.64	1.91	0.7
		1 1/4	32	76	64	89	1.45	0.72	1.95	0.79
		1 1/2	40	76	67	89	1.6	0.78	2.04	0.92
3	80	2	50	76	70	89	1.6	0.8	2.04	1.02
		1	25	86	67	89	2.27	1	2.72	1.11
		1 1/4	32	86	70	89	2.31	1	2.72	1.18
		1 1/2	40	86	73	89	2.31	1.1	2.81	1.22
		2	50	86	76	89	2.36	1.16	2.95	1.25
3 1/2	90	2 1/2	65	86	83	89	2.72	1.2	3.4	1.32
		1 1/4	32	95	79	102	3.4	1.2	5	1.4
		1 1/2	40	95	83	102	3.4	1.23	5	1.45
		2	50	95	83	102	3.72	1.26	5.1	1.52
		2 1/2	65	95	89	102	3.76	1.28	5.4	1.59
		3	80	95	92	102	4.31	1.31	5.7	1.81
4	100	1	25	102	92	102	5.44	1.3	6.8	1.86
		1 1/2	40	105	86	102	5.44	1.33	5.9	1.95
		2	50	105	89	102	4.26	1.35	5.9	2.04
		2 1/2	65	105	95	102	4.26	1.37	6.2	2.1
		3	80	105	98	102	4.31	1.4	6.4	2.2
		3 1/2	90	105	102	102	4.35	1.42	6.8	2.2
5	125	2	50	124	105	127	6.6	1.49	8.1	2.4
		2 1/2	65	124	108	127	6.6	1.52	8.3	2.5
		3	80	124	111	127	6.6	1.61	8.5	2.6
		3 1/2	90	124	114	127	6.8	1.67	9.1	2.8
		4	100	124	117	127	6.9	1.74	10.2	3
6	150	2	50	143	121	140	8.9	1.94	13.6	3.5
		2 1/2	65	143	121	140	9.1	2	14.1	3.7
		3	80	143	124	140	9.5	2.1	14.3	4
		3 1/2	90	143	127	140	9.8	2.18	14.5	4.3
		4	100	143	130	140	9.8	2.3	14.7	5
		5	125	143	137	140	10.4	2.41	15	5.4
8	200	3	80	178	152	152	17.2	3.31	29	6.6
		3 1/2	90	178	152	152	17.7	3.47	29	7.3
		4	100	178	156	152	18.4	3.68	29	7.5
		5	125	178	162	152	18.6	3.8	30	7.7
		6	150	178	168	152	20	4.1	30	8.4
10	250	3	80	216	184	178	32	5	41	9.5
		4	100	216	184	178	34	5.6	41	10.4
		5	125	216	191	178	34	6.8	43	11.3
		6	150	216	194	178	36	7.7	44	12.7
		8	200	216	203	178	36	9.5	45	13.4
12	300	4	100	254	216	203	46	10.4	59	14.5
		6	150	254	129	203	47	12.6	61	15.5
		8	200	254	229	203	47	13.5	63	16
		10	250	254	241	203	59	14.4	67	18
		6	150	279	238	330	66	26	83	27
14	350	8	200	279	248	330	66	27	84	28
		10	250	279	250	330	67	27	86	28
		12	300	279	270	330	68	29	88	34
		6	150	305	264	356	81	31	104	37
		8	200	305	273	356	84	31	106	40
16	400	10	250	305	283	356	88	32	111	43
		12	300	305	295	356	95	34	117	46
		14	350	305	305	356	99	36	117	48
		8	200	343	298	381	106	36	136	51
		10	250	343	308	381	112	36	140	51
18	450	12	300	343	321	381	117	37	149	52
		14	350	343	330	381	122	38	153	53
		16	400	343	330	381	127	38	158	54
		8	200	381	324	508	133	38	172	57
		10	250	381	333	508	139	38	175	57
20	500	12	300	381	346	508	143	50	182	68
		14	350	381	356	508	149	53	190	69
		16	400	381	356	508	155	56	196	72
		18	450	381	368	508	161	57	204	75
		10	250	419	359	508	166	57	214	75
22	550	12	300	419	371	508	173	57	217	76
		14	350	419	381	508	179	58	221	76
		16	400	419	381	508	187	60	226	78
		18	450	419	394	508	195	64	237	79
		20	500	419	406	508	201	65	245	82
24	600	10	250	432	384	508	205	68	252	83
		12	300	432	397	508	206	69	255	85
		14	350	432	406	508	212	70	259	87
		16	400	432	406	508	217	71	265	88

FLANGES

A flange is a method of connecting pipes, valves, pumps and other equipment to form a pipework system. It also provides easy access for cleaning, inspection or modification. Flanges are usually welded or screwed into such systems and then joined with bolts.

A flange can also be a plate or ring to form a rim at the end of a pipe when fastened to the pipe.

FORGED STEEL FLANGES

Forged steel flanges made of carbon steel or stainless steel, the materials conform to the JIS, ASTM A182, A105, DIN 17100 ST-2 and BS standard. Dimension to be in accordance with JIS ANSI DIN BS standard accordingly

The flanges are suitable for connection of steel pipes conveying mediums such as steam, oil, air and water. They are widely used in chemical industry and Shipbuilding. And the flanges are suitable for welding. The flanges mainly include Weld Neck, Blind, Slip-on, Lap-Joint, Socket, Reducing and plate type.



Forged flanges

TYPES	RATING	STANDARDS	MATERIAL
	150lbs to 2500 lbs	ANSI B 16.5	ASTMA-105
	PN 10 to PN 40	DIN 2682,2633,2634	
Weld Neck		2635,2642,2527,2566	
Blind		2576,2642,2527,2566	
Slip-on		MSS SP 44	
Lap Joint		ASME B 16.47	
Screwed		BS 4504	
Socket Weld			

Sizes 1/2" to 36" NB (15 mm to 900 mm MB)

Facing : Raised, Flat, Ring type joint, Male / Female, Tongue / Groove.

Plate flanges

TYPES	RATING	STANDARDS
Slip-on w/o collar	PN 10 to PN 40	DIN 2576, Din 2527
Blind		DIN 2533
		BS 10, BS 4504

ASME/ANSI FLANGES

The Following are the various types of flanges manufactured by ALFA - UK LTD Weld Neck Flange, Slip-On Flange, Socket Weld Flange, Screwed/Threaded Flange Lap Joint Flange, Blind Flange

WELD NECK FLANGE

WELD NECK FLANGE(WN flange)is circumferentially welded into the system at its neck which means that the integrity of the butt welded area can be easily examined by radiography. The bores of both pipe and flange match, which reduces turbulence and erosion inside the pipeline. The weld neck is therefore favoured in critical application.

Standards	: ANSI B 16.5, ASME B16.47
Pressure classes range	: 150lbs to 2,500lbs.
Sizes range	: From ½ "to 36"
Materials	: Carbon steel ,stainless steel and alloy steel. ASTM - A 105.
Printing	: Carbon steel and alloy steel with yellow print, black print, oil or zinc.

Weld Neck Flange Dimensions :

Class 150 lbs, 300 lbs, 400 lbs, 600 lbs, 900 lbs, 1500 lbs, 2500 lbs



SLIP-ON FLANGE

This flange is slipped over the pipe and then fillet welded. Slip-on flange are easy to use in fabricated applications.

Standards	: ANSI B 16.5, ASME B16.47
Pressure classes range	: 150lbs to 2,500lbs.
Sizes range	: From ½ "to 36"
Materials	: Carbon steel ,stainless steel and alloy steel. ASTM - A 105.
Printing	: Carbon steel and alloy steel with yellow print, black print oil or zinc.

Slip-On Flange Dimensions :

Class 150 lbs, 300 lbs, 400 lbs, 600 lbs, 900 lbs, 1500 lbs



SOCKET WELD FLANGE

This flange is counter bored to accept the pipe before being fillet welded. The bore of the pipe and flange are both the same therefore giving good flow characteristics.

Standards	: GB9112-9131, SH3406, ANSI B16.5, DIN 25762766 DIN2632-2638
Pressure classes range	: From 150 lbs to 2,500 lbs
Sizes range	: DN 10-DN800.
Materials	: Carbon steel, stainless steel and alloy steel.
Printing	: Carbon steel and alloy steel with yellow print, black print, oil or zinc.



SCREWED / THREADED FLANGE

This flange is referred to as either threaded or screwed. It is used to connect other threaded components in low pressure, non-critical applications. No welding is required.

Standards	: ANSI, AS2129, JIS, DIN, EN-1092-1, BS10 BS4504 etc.
Nominal Pressure	: PN0.25-PN42, 150LB-900LB, 5K-30K.
Nominal Diameter	: DN10A-DN600A, NPS:3/8"-24"
Materials	: Carbon steel, stainless steel and alloy steel.
Printing	: Carbon steel and alloy steel with yellow print, black print, oil or zinc.
Packing	: Plywooden case.



LAP JOINT FLANGE

These flange are always used with either a stub end or taft which is butt welded to the pipe with the flange loose behind it. This means the stub end or taft always makes the face. The lap joint is favoured in low pressure applications because it is easily assembled and aligned. To reduce cost these flanges can be supplied without a hub and/or in treated, coated carbon steel.

Standards	: ANSI, MSS, API, AWWA, DIN, JIS, BS AND GB.
Process	: free forging, plate cutting.
Sizes range	: 1/2" to 64" (and much larger size according to customers demands)
Materials	: Carbon steel, stainless steel and alloy steel



BLIND FLANGE

This flange is used to blank off pipelines, valves and pumps, it can also be used as an inspection cover. It is sometimes referred to as a blanking flanges.

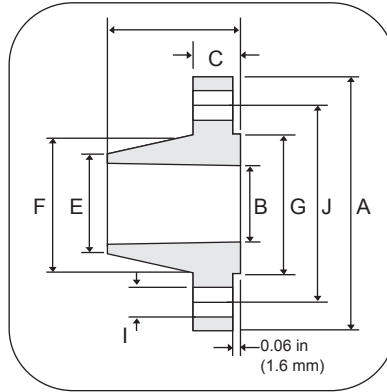
Standards	: ANSI B 16.5, ASME B16.47
Pressure classes range	: 150lbs to 2,500lbs.
Sizes range	: From 1/2" to 36"
Materials	: Carbon steel, stainless steel and alloy steel. ASTM - A 105.
Printing	: Carbon steel and alloy steel with yellow print, black print oil or zinc.

Blind Flange Dimensionstin :

Class 150 lbs, 300 lbs, 400 lbs, 600 lbs, 900 lbs, 1500 lbs, 2500 lbs

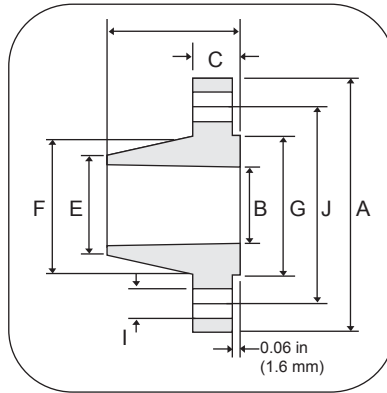


Weld Neck Flanges - ANSI B16.5 Class 150lbs



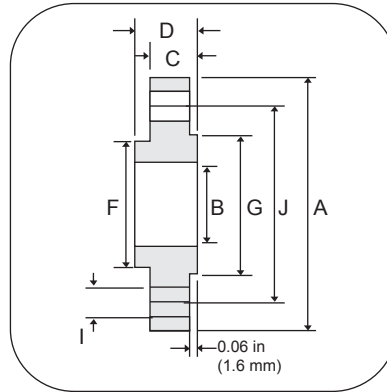
Pipe		Flange Data				Hub Data		Raised Face	Drilling Data			Weight
Nominal Pipe Size		A	B	C	D	E	F	G	H	I	J	
	Outside Diameter	Overall Diameter	Inside Diameter	Flange Thickness min	Overall Length	Diameter at Weld Bevel	Hub Diameter	Face Diameter	Number of Holes	Bolt Hole Diameter	Diameter of Circle of Holes	kg/peice
	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm		in mm	in mm	
1/2	0.840	3.500	0.620	0.440	1.880	0.840	1.190	1.380	4	0.620	2.380	0.48
	21.30	88.90	15.70	11.20	47.80	21.30	30.20	35.00		15.70	60.45	
3/4	1.050	3.880	0.820	0.500	2.060	1.050	1.500	1.690	4	0.620	2.750	0.71
	26.70	98.60	20.80	12.70	52.30	26.70	38.10	42.90		15.70	69.85	
1	1.315	4.250	1.050	0.560	2.190	1.320	1.940	2.000	4	0.620	3.120	1.01
	33.40	108.0	26.70	14.20	55.60	33.50	49.30	50.80		15.70	79.25	
1 1/4	1.660	4.620	1.380	0.620	2.250	1.660	2.310	2.500	4	0.620	3.500	1.33
	42.20	117.3	35.10	15.70	57.15	42.20	58.70	63.50		15.70	88.90	
1 1/2	1.900	5.000	1.610	0.690	2.440	1.900	2.560	2.880	4	0.620	3.880	1.72
	48.30	127.0	40.90	17.50	62.00	48.30	65.00	73.15		15.70	98.60	
2	2.375	6.000	2.070	0.750	2.500	2.380	3.060	3.620	4	0.750	4.750	2.58
	60.30	152.4	52.60	19.10	63.50	60.45	77.70	91.90		19.10	120.7	
2 1/2	2.875	7.000	2.470	0.880	2.750	2.880	3.560	4.120	4	0.750	5.500	4.11
	73.00	177.8	62.70	22.40	69.85	73.15	90.40	104.6		19.10	139.7	
3	3.500	7.500	3.070	0.940	2.750	3.500	4.250	5.000	4	0.750	6.000	4.92
	88.90	190.5	78.00	23.90	69.85	88.90	108.0	127.0		19.10	152.4	
3 1/2	4.000	8.500	3.550	0.940	2.810	4.000	4.810	5.500	8	0.750	7.000	6.08
	101.6	215.9	90.20	23.90	71.40	101.6	122.2	139.7		19.10	177.8	
4	4.500	9.000	4.030	0.940	3.000	4.500	5.310	6.190	8	0.750	7.500	6.84
	114.3	228.6	102.4	23.90	76.20	114.3	134.9	157.2		19.10	190.5	
5	5.563	10.00	5.050	0.940	3.500	5.560	6.440	7.310	8	0.880	8.500	8.56
	141.3	254.0	128.3	23.90	88.90	141.2	246.1	185.7		22.40	215.9	
6	6.625	11.00	6.070	1.000	3.500	6.630	12.00	8.500	8	0.880	9.500	10.6
	168.3	279.4	154.2	25.40	88.90	168.4	304.8	215.9		22.40	241.3	
8	8.625	13.50	7.980	1.120	4.000	8.630	14.38	10.62	8	0.880	11.75	17.6
	219.1	342.9	202.7	28.40	101.6	219.2	365.3	269.7		22.40	298.5	
10	10.75	16.00	10.02	1.190	4.000	10.75	15.75	12.75	12	1.000	14.25	24.0
	273.0	406.4	254.5	30.20	101.6	273.0	400.1	323.8		25.40	362.0	
12	12.75	19.00	12.00	1.250	4.500	12.75	18.00	15.00	12	1.000	17.00	36.5
	323.8	482.6	304.8	31.75	114.3	323.8	475.2	381.0		25.40	431.8	
14	14.00	21.00	To be specified by purchaser	1.380	5.000	14.00	19.88	16.25	12	1.120	18.75	48.4
	355.6	533.4		35.10	127.0	355.6	505.0	412.7		28.40	476.3	
16	16.00	23.50		1.440	5.000	16.00	22.00	18.50	16	1.120	21.25	60.6
	406.4	596.9		36.60	127.0	406.4	558.8	469.9		28.40	539.8	
18	18.00	25.00		1.560	5.500	18.00	26.12	21.00	16	1.250	22.75	68.3
	457.2	635.0		39.60	139.7	457.2	663.4	533.4		31.75	577.9	
20	20.00	27.50		1.690	5.690	20.00	28.00	23.00	20	1.250	25.00	84.5
	508.0	698.5		42.90	144.5	508.0		584.2		31.75	635.0	
24	24.00	32.00		1.880	6.000	24.00		27.25	20	1.380	29.50	115
	609.6	812.8		47.80	152.4	609.6		692.1		35.10	749.3	

Weld Neck Flanges - ANSI B16.5 Class 300lbs



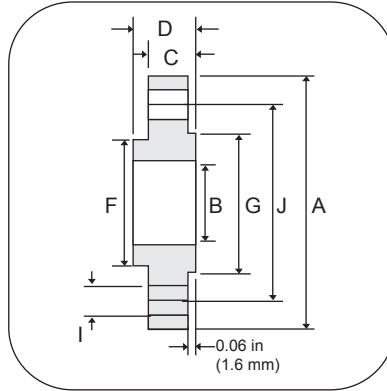
Pipe		Flange Data				Hub Data		Raised Face	Drilling Data			Weight
Nominal Pipe Size		A	B	C	D	E	F	G	H	I	J	
	Outside Diameter	Overall Diameter	Inside Diameter	Flange Thickness min	Overall Length	Diameter at Weld Bevel	Hub Diameter	Face Diameter	Number of Holes	Bolt Hole Diameter	Diameter of Circle of Holes	kg/peice
	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm				
1/2	0.840	3.750	0.620	0.560	2.060	0.840	1.500	1.380	4	0.620	2.620	0.75
	21.30	95.20	15.70	14.20	52.30	21.30	38.10	35.00				
3/4	1.050	4.620	0.820	0.620	2.250	1.050	1.880	1.690	4	0.750	3.250	1.26
	26.70	117.3	20.80	15.70	57.15	26.70	47.70	42.90				
1	1.315	4.880	1.050	0.690	2.440	1.320	2.120	2.000	4	0.750	3.500	1.52
	33.40	123.9	26.70	17.50	62.00	33.50	53.80	50.80				
1 1/4	1.660	5.250	1.380	0.750	2.560	1.660	2.500	2.500	4	0.750	3.880	2.03
	42.20	133.3	35.10	19.00	65.00	42.20	63.50	63.50				
1 1/2	1.900	6.120	1.610	0.810	2.690	1.900	2.750	2.880	4	0.880	4.500	2.89
	48.30	155.4	40.90	20.60	68.30	48.30	69.85	73.15				
2	2.375	6.500	2.070	0.880	2.750	2.380	3.310	3.620	8	0.750	5.000	3.40
	60.30	165.1	52.60	22.30	69.85	60.45	84.00	91.90				
2 1/2	2.875	7.500	2.470	1.000	3.000	2.880	3.940	4.120	8	0.880	5.880	5.17
	73.00	190.5	62.70	25.40	76.20	73.15	100.0	104.6				
3	3.500	8.250	3.070	1.120	3.120	3.500	4.620	5.000	8	0.880	6.620	6.93
	88.90	209.5	78.00	28.40	79.25	88.90	117.3	127.0				
3 1/2	4.000	9.000	3.550	1.190	3.190	4.000	5.250	5.500	8	0.880	7.250	8.67
	101.6	228.6	90.20	30.20	81.00	101.6	133.3	139.7				
4	4.500	10.00	4.030	1.250	3.380	4.500	5.750	6.190	8	0.880	7.880	11.2
	114.3	254.0	102.4	31.70	85.80	114.3	146.0	157.2				
5	5.563	11.00	5.050	1.380	3.880	5.560	7.000	7.310	8	0.880	9.250	15.1
	141.3	279.4	128.3	35.00	98.50	141.2	177.8	185.7				
6	6.625	12.50	6.070	1.440	3.880	6.630	8.120	8.500	12	0.880	10.62	19.1
	168.3	317.5	154.2	36.50	98.50	168.4	206.2	215.9				
8	8.625	15.00	7.980	1.620	4.380	8.630	10.25	10.62	12	1.000	13.00	29.9
	219.1	381.0	202.7	41.10	111.2	219.2	260.3	269.7				
10	10.75	17.50	10.02	1.880	4.620	10.75	12.62	12.75	16	1.120	15.25	42.7
	273.0	444.5	254.5	47.70	117.3	273.0	320.5	323.8				
12	12.75	20.50	12.00	2.000	5.120	12.75	14.75	15.00	16	1.250	17.75	61.8
	323.8	520.7	304.8	50.80	130.0	323.8	374.6	381.0				
14	14.00	23.00	To be specified by purchaser	2.120	5.620	14.00	16.75	16.25	20	1.250	20.25	85.8
	355.6	584.2		53.80	142.7	355.6	425.4	412.7				
16	16.00	25.50		2.250	5.750	16.00	19.00	18.50	20	1.380	22.50	106
	406.4	647.7		57.15	146.0	406.4	482.6	469.9				
18	18.00	28.00		2.380	6.250	18.00	21.00	21.00	24	1.380	24.75	131
	457.2	711.2		60.45	158.7	457.2	533.4	533.4				
20	20.00	30.50		2.500	6.380	20.00	23.12	23.00	24	1.380	27.00	158
	508.0	774.7		63.50	162.0	508.0	587.2	584.2				
24	24.00	36.0		2.750	6.620	24.00	27.62	27.25	24	1.620	32.00	230
	609.6	914.4		69.85	168.1	609.6	701.5	692.1				

Slip On Flanges - ANSI B16.5 Class 150lbs



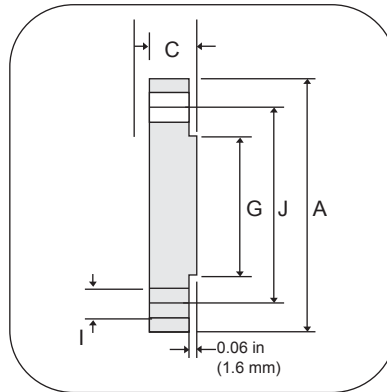
Pipe		Flange Data				Hub	Raised Face	Drilling Data			Weight
Nominal Pipe Size		A	B	C	D	F	G	H	I	J	
	Outside Diameter	Overall Diameter	Inside Diameter	Flange Thickness min	Overall Length	Hub Diameter	Face Diameter	Number of Holes	Bolt Hole Diameter	Diameter of Circle of Holes	kg/peice
	in mm	in mm	in mm	in mm	in mm	in mm	in mm		in mm	in mm	
1/2	0.840	3.500	0.880	0.440	0.620	1.190	1.380	4	0.620	2.380	0.39
	21.30	88.90	22.40	11.20	15.70	30.20	35.10		15.70	60.45	
3/4	1.050	3.880	1.090	0.500	0.620	1.500	1.690	4	0.620	2.750	0.56
	26.70	98.60	27.70	12.70	15.70	38.10	42.90		15.70	69.85	
1	1.315	4.250	1.360	0.560	0.690	1.940	2.000	4	0.620	3.120	0.78
	33.40	108.0	34.50	14.20	17.50	49.30	50.80		15.70	79.25	
1 1/4	1.660	4.620	1.700	0.620	0.810	2.310	2.500	4	0.620	3.500	1.03
	42.20	117.3	43.20	15.70	20.60	58.70	63.50		15.70	88.90	
1 1/2	1.900	5.000	1.950	0.690	0.880	2.560	2.880	4	0.620	3.880	1.32
	48.30	127.0	49.50	17.50	22.40	65.00	73.15		15.70	98.60	
2	2.375	6.000	2.440	0.750	1.000	3.060	3.620	4	0.750	4.750	2.06
	60.30	152.4	62.00	19.10	25.40	77.70	91.90		19.10	120.7	
2 1/2	2.875	7.000	2.940	0.880	1.120	3.560	4.120	4	0.750	5.500	3.28
	73.00	177.8	74.70	22.40	28.40	90.40	104.6		19.10	139.7	
3	3.500	7.500	3.570	0.940	1.190	4.250	5.000	4	0.750	6.000	3.85
	88.90	190.5	90.70	23.90	30.20	108.0	127.0		19.10	152.4	
3 1/2	4.000	8.500	4.070	0.940	1.250	4.810	5.500	8	0.750	7.000	4.81
	101.6	215.9	103.4	23.90	31.75	122.2	139.7		19.10	177.8	
4	4.500	9.000	4.570	0.940	1.310	5.310	6.190	8	0.750	7.500	5.30
	114.3	228.6	116.1	23.90	33.30	134.9	157.2		19.10	190.5	
5	5.563	10.00	5.660	0.940	1.440	6.440	7.310	8	0.880	8.500	6.07
	141.3	254.0	143.8	23.90	36.60	163.6	185.7		22.40	215.9	
6	6.625	11.00	6.720	1.000	1.560	7.560	8.500	8	0.880	9.500	7.45
	168.3	279.4	170.7	25.40	39.60	192.0	215.9		22.40	241.3	
8	8.625	13.50	8.720	1.120	1.750	9.690	10.62	8	0.880	11.75	12.1
	219.1	342.9	221.5	28.40	44.50	246.1	269.7		22.40	298.5	
10	10.75	16.00	10.88	1.190	1.940	12.00	12.75	12	1.000	14.25	16.5
	273.0	406.4	276.3	30.20	49.30	304.8	323.9		25.40	362.0	
12	12.75	19.00	12.88	1.250	2.190	14.38	15.00	12	1.000	17.00	26.2
	323.8	482.6	327.1	31.75	55.60	365.3	381.0		25.40	431.8	
14	14.00	21.00	14.14	1.380	2.250	15.75	16.25	12	1.120	18.75	34.6
	355.6	533.4	359.1	35.10	57.15	400.1	412.8		28.40	476.3	
16	16.00	23.50	16.16	1.440	2.500	18.00	18.50	16	1.120	21.25	44.8
	406.4	596.9	410.5	36.60	63.50	457.2	469.9		28.40	539.8	
18	18.00	25.00	18.18	1.560	2.690	19.88	21.00	16	1.250	22.75	48.9
	457.2	635.0	461.8	39.60	68.30	505.0	533.4		31.75	577.9	
20	20.00	27.50	20.20	1.690	2.880	22.00	23.00	20	1.250	25.00	61.9
	508.0	698.5	513.1	42.90	73.15	558.8	584.2		31.75	635.0	
24	24.00	32.00	24.25	1.880	3.250	26.12	27.25	20	1.380	29.50	86.9
	609.6	812.8	616.0	47.80	82.60	663.4	692.2		35.10	749.3	

Slip On Flanges - ANSI B16.5 Class 300lbs



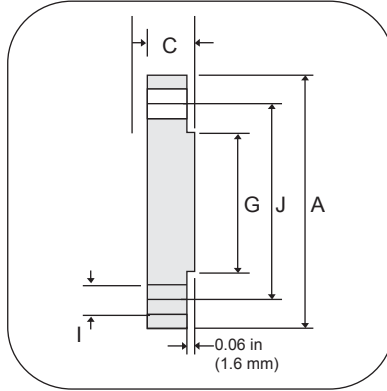
Pipe		Flange Data				Hub	Raised Face	Drilling Data			Weight
Nominal Pipe Size		A	B	C	D	F	G	H	I	J	
	Outside Diameter	Overall Diameter	Inside Diameter	Flange Thickness min	Overall Length	Hub Diameter	Face Diameter	Number of Holes	Bolt Hole Diameter	Diameter of Circle of Holes	kg/ piece
	in mm	in mm	in mm	in mm	in mm	in mm	in mm		in mm	in mm	
1/2	0.840	3.750	0.880	0.560	0.880	1.500	1.380	4	0.620	2.620	0.64
	21.30	95.20	22.40	14.20	22.40	38.10	35.10		15.70	66.55	
3/4	1.050	4.620	1.090	0.620	1.000	1.880	1.690	4	0.750	3.250	1.12
	26.70	117.3	27.70	15.70	25.40	47.70	42.90		19.10	82.50	
1	1.315	4.880	1.360	0.690	1.060	2.120	2.000	4	0.750	3.500	1.36
	33.40	123.9	34.50	17.50	26.90	53.80	50.80		19.10	88.90	
1 1/4	1.660	5.250	1.700	0.750	1.060	2.500	2.500	4	0.750	3.880	1.68
	42.20	133.3	43.20	19.00	26.90	63.50	63.50		19.10	98.60	
1 1/2	1.900	6.120	1.950	0.810	1.190	2.750	2.880	4	0.880	4.500	2.49
	48.30	155.4	49.50	20.60	30.20	69.85	73.15		22.40	114.3	
2	2.375	6.500	2.440	0.880	1.310	3.310	3.620	8	0.750	5.000	2.87
	60.30	165.1	62.00	22.30	33.20	84.00	91.90		19.10	127.0	
2 1/2	2.875	7.500	2.940	1.000	1.500	3.940	4.120	8	0.880	5.880	4.32
	73.00	190.5	74.70	25.40	38.10	100.0	104.6		22.40	149.4	
3	3.500	8.250	3.570	1.120	1.690	4.620	5.000	8	0.880	6.620	5.85
	88.90	209.5	90.70	28.40	42.90	117.3	127.0		22.40	168.1	
3 1/2	4.000	9.000	4.070	1.190	1.750	5.250	5.500	8	0.880	7.250	7.34
	101.6	228.6	103.4	30.20	44.40	133.3	139.7		22.40	184.2	
4	4.500	10.00	4.570	1.250	1.880	5.750	6.190	8	0.880	7.880	9.61
	114.3	254.0	116.1	31.70	47.70	146.0	157.2		22.40	200.1	
5	5.563	11.00	5.660	1.380	2.000	7.000	7.310	8	0.880	9.250	12.3
	141.3	279.4	143.8	35.00	50.80	177.8	185.7		22.40	234.9	
6	6.625	12.50	6.720	1.440	2.060	8.120	8.500	12	0.880	10.62	15.6
	168.3	317.5	170.7	36.50	52.30	206.2	215.9		22.40	269.7	
8	8.625	15.00	8.720	1.620	2.440	10.25	10.62	12	1.000	13.00	24.2
	219.1	381.0	221.5	41.10	61.90	260.3	269.7		25.40	330.2	
10	10.75	17.50	10.88	1.880	2.620	12.62	12.75	16	1.120	15.25	34.1
	273.0	444.5	276.3	47.70	66.55	320.5	323.9		28.40	387.3	
12	12.75	20.50	12.88	2.000	2.880	14.75	15.00	16	1.250	17.75	49.8
	323.8	520.7	327.1	50.80	73.15	374.6	381.0		31.70	450.8	
14	14.00	23.00	14.14	2.120	3.000	16.75	16.25	20	1.250	20.25	69.9
	355.6	584.2	359.1	53.80	76.20	425.4	412.8		31.70	514.4	
16	16.00	25.50	16.16	2.250	3.250	19.00	18.50	20	1.380	22.50	88.1
	406.4	647.7	410.5	57.15	82.50	482.6	469.9		35.00	571.5	
18	18.00	28.00	18.18	2.380	3.500	21.00	21.00	24	1.380	24.75	109
	457.2	711.2	461.8	60.45	88.90	533.4	533.4		35.00	628.7	
20	20.00	30.50	20.20	2.500	3.750	23.12	23.00	24	1.380	27.00	134
	508.0	774.7	513.1	63.50	95.20	587.2	584.2		35.00	685.8	
24	24.00	36.00	24.25	2.750	4.190	27.62	27.25	24	1.620	32.00	201
	609.6	914.4	616.0	69.85	106.4	701.5	692.2		41.00	812.8	









Blind Flanges - ANSI B16.5 Class 150lbs



Pipe		Flange Data		Raised Face	Drilling Data			Weight
Nominal Pipe Size		A	C	G	H	I	J	
	Outside Diameter	Overall Diameter	Flange Thickness min	Face Diameter	Number of Holes	Bolt Hole Diameter	Diameter of Circle of Holes	kg/peice
	in mm	in mm	in mm	in mm		in mm	in mm	
½	0.840	3.500	0.440	1.380	4	0.620	2.380	0.42
	21.30	88.90	11.20	35.10		15.70	60.45	
¾	1.050	3.880	0.500	1.690	4	0.620	2.750	0.61
	26.70	98.60	12.70	42.90		15.70	69.85	
1	1.315	4.250	0.560	2.000	4	0.620	3.120	0.86
	33.40	108.0	14.20	50.80		15.70	79.25	
1¼	1.660	4.620	0.620	2.500	4	0.620	3.500	1.17
	42.20	117.3	15.70	63.50		15.70	88.90	
1½	1.900	5.000	0.690	2.880	4	0.620	3.880	1.53
	48.30	127.0	17.50	73.15		15.70	98.60	
2	2.375	6.000	0.750	3.620	4	0.750	4.750	2.42
	60.30	152.4	19.10	91.90		19.10	120.7	
2½	2.875	7.000	0.880	4.120	4	0.750	5.500	3.94
	73.00	177.8	22.40	104.6		19.10	139.7	
3	3.500	7.500	0.940	5.000	4	0.750	6.000	4.93
	88.90	190.5	23.90	127.0		19.10	152.4	
3½	4.000	8.500	0.940	5.500	8	0.750	7.000	6.17
	101.6	215.9	23.90	139.7		19.10	177.8	
4	4.500	9.000	0.940	6.190	8	0.750	7.500	7.00
	114.3	228.6	23.90	157.2		19.10	190.5	
5	5.563	10.00	0.940	7.310	8	0.880	8.500	8.63
	141.3	254.0	23.90	185.7		22.40	215.9	
6	6.625	11.00	1.000	8.500	8	0.880	9.500	11.3
	168.3	279.4	25.40	215.9		22.40	241.3	
8	8.625	13.50	1.120	10.62	8	0.880	11.75	19.6
	219.1	342.9	28.40	269.7		22.40	298.5	
10	10.75	16.00	1.190	12.75	12	1.000	14.25	28.8
	273.0	406.4	30.20	323.9		25.40	362.0	
12	12.75	19.00	1.250	15.00	12	1.000	17.00	43.2
	323.8	482.6	31.75	381.0		25.40	431.8	
14	14.00	21.00	1.380	16.25	12	1.120	18.75	58.1
	355.6	533.4	35.10	412.8		28.40	476.3	
16	16.00	23.50	1.440	18.50	16	1.120	21.25	76.0
	406.4	596.9	36.60	469.9		28.40	539.8	
18	18.00	25.00	1.560	21.00	16	1.250	22.75	93.7
	457.2	635.0	39.60	533.4		31.75	577.9	
20	20.00	27.50	1.690	23.00	20	1.250	25.00	122
	508.0	698.5	42.90	584.2		31.75	635.0	
24	24.00	32.00	1.880	27.25	20	1.380	29.50	185
	609.6	812.8	47.80	692.2		35.10	749.3	

Blind Flanges - ANSI B16.5 Class 300lbs



Pipe		Flange Data		Raised Face	Drilling Data			Weight
Nominal Pipe Size								
	Outside Diameter	Overall Diameter	Flange Thickness min	Face Diameter	Number of Holes	Bolt Hole Diameter	Diameter of Circle of Holes	kg/peice
	in mm	in mm	in mm	in mm		in mm	in mm	
½	0.840	3.750	0.560	1.380	4	0.620	2.620	0.64
	21.30	95.20	14.20	35.10		15.70	66.55	
¾	1.050	4.620	0.620	1.690	4	0.750	3.250	1.11
	26.70	117.3	15.70	42.90		19.00	82.50	
1	1.315	4.880	0.690	2.000	4	0.750	3.500	1.39
	33.40	123.9	17.50	50.80		19.00	88.90	
1¼	1.660	5.250	0.750	2.500	4	0.750	3.880	1.79
	42.20	133.3	19.00	63.50		19.00	98.50	
1½	1.900	6.120	0.810	2.880	4	0.880	4.500	2.66
	48.30	155.4	20.60	73.15		22.30	114.3	
2	2.375	6.500	0.880	3.620	8	0.750	5.000	3.18
	60.30	165.1	22.30	91.90		19.00	127.0	
2½	2.875	7.500	1.000	4.120	8	0.880	5.880	4.85
	73.00	190.5	25.40	104.6		22.30	149.3	
3	3.500	8.250	1.120	5.000	8	0.880	6.620	6.81
	88.90	209.5	28.40	127.0		22.30	168.1	
3½	4.000	9.000	1.190	5.500	8	0.880	7.250	8.71
	101.6	228.6	30.20	139.7		22.30	184.1	
4	4.500	10.00	1.250	6.190	8	0.880	7.880	11.5
	114.3	254.0	31.70	157.2		22.30	200.1	
5	5.563	11.00	1.380	7.310	8	0.880	9.250	15.6
	141.3	279.4	35.00	185.7		22.30	234.9	
6	6.625	12.50	1.440	8.500	12	0.880	10.62	20.9
	168.3	317.5	36.50	215.9		22.30	269.7	
8	8.625	15.00	1.620	10.62	12	1.000	13.00	34.3
	219.1	381.0	41.10	269.7		25.40	330.2	
10	10.75	17.50	1.880	12.75	16	1.120	15.25	53.3
	273.0	444.5	47.70	323.9		28.40	387.3	
12	12.75	20.50	2.000	15.00	16	1.250	17.75	78.8
	323.8	520.7	50.80	381.0		31.70	450.8	
14	14.00	23.00	2.120	16.25	20	1.250	20.25	105
	355.6	584.2	53.80	412.8		31.70	514.3	
16	16.00	25.50	2.250	18.50	20	1.380	22.50	137
	406.4	647.7	57.15	469.9		35.00	571.5	
18	18.00	28.00	2.380	21.00	24	1.380	24.75	175
	457.2	711.2	60.45	533.4		35.00	628.6	
20	20.00	30.50	2.500	23.00	24	1.380	27.00	221
	508.0	774.7	63.50	584.2		35.00	685.8	
24	24.00	36.0	2.750	27.25	24	1.620	32.00	339
	609.6	914.4	69.85	692.2		41.10	812.8	

16 BAR

Acc. to BS 4504



WELD NECK FLANGES
SLIP-ON FLANGES
BLIND FLANGES

Nominal Bore*	Outside Diameter* <i>D</i>	Pitch Circle Diameter* <i>K</i>	Diameter of Bolts*	No. of Holes	Approximate Weight (Kgs)	
					DIN 2543	DIN 2633
15	95	65	M12	4	0.72	0.648
20	105	75	M12	4	1.01	0.952
25	115	85	M12	4	1.23	1.14
32	140	100	M16	4	1.8	1.69
40	150	110	M16	4	2.09	1.86
50	165	125	M16	4	2.88	2.53
65	185	145	M16	8	3.66	3.06
80	200	160	M16	8	4.77	3.7
100	220	180	M16	8	5.65	4.62
125	250	210	M16	8	8.42	6.3
150	285	240	M20	8	10.4	7.75
200	340	295	M20	12	16.1	11
250	405	355	M24	12	24.9	15.6
300	460	410	M24	12	35.1	22
350	520	470	M24	16	47.8	31.2
400	580	525	M27	16	63.5	39.3
450	640	585	M27	20	85	55
500	715	650	M30	20	102	61
600	840	770	M33	20		
700	910	840	M33	24		
800	1025	950	M36	24		
900	1125	1050	M36	28		
1000	1255	1170	M39	28		

Dimensions in mm.

25 BAR

Acc. to BS 4504



WELD NECK FLANGES SLIP-ON FLANGES BLIND FLANGES

Nominal Bore*	Outside Diameter* <i>D</i>	Pitch Circle Diameter* <i>K</i>	Diameter of Bolts*	No. of Holes	Approximate Weight (Kgs)	
					DIN 2544	DIN 2634
15	95	65	M12	4	0.81	0.746
20	105	75	M12	4	1.24	1.06
25	115	85	M12	4	1.38	1.29
32	140	100	M16	4	2.03	1.88
40	150	110	M16	4	2.35	2.34
50	165	125	M16	4	3.2	2.82
65	185	145	M16	8	4.29	3.74
80	200	160	M16	8	5.88	4.75
100	235	190	M20	8	7.54	6.52
125	270	220	M24	8	10.8	9.07
150	300	250	M24	8	14.5	11.8
200	360	310	M24	12	22.3	17
250	425	370	M27	12	33.5	24.4
300	485	430	M27	16	46.3	31.2
350	555	490	M30	16	68	47.2
400	620	550	M33	16	89.7	61.7
450	670	600	M33	20	115	72
500	730	660	M33	20	138	89.6
600	845	770	M36	20		104
700	960	875	M39	24		136
800	1085	990	M45	24		186
900	1185	1090	M45	28		236
1000	1320	1210	M52	28		307

Dimensions in mm.



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