PARSHVA

Steel And Alloys

"Forging Strength, Fitting Excellence, Shaping Steel"

MSME
सूक्ष्म, लघु एवं मध्यम उद्यम
MICRO, SMALL & MEDIUM ENTERPRISES

MAKE IN INDIA

COMPANY PROFILE

WHO WE ARE

At Parshva Steel & Alloys, we are committed to delivering high-quality fasteners, fittings, flanges, and pipes that meet the demands of various industries. With a strong focus on precision engineering and durability, our products are manufactured using premium-grade raw materials and cutting edge technology to ensure superior performance and reliability. Our dedication to quality is reflected in our stringent testing and quality control processes, ensuring that every product meets industry standards.

We take pride in our ability to provide customized solutions, catering to the unique requirements of our clients while maintaining efficiency and cost-effectiveness. With a well-managed supply chain and seamless logistics, we ensure timely deliveries, helping businesses keep their operations running smoothly. At Parshva Steel & Alloys, customer satisfaction is at the core of our business, and we strive to build long-lasting relationships by offering exceptional service, technical expertise, and unwavering reliability in every product we supply.

ADVANTAGES WITH US

- Team of dedicated workforce
- Situated at a strategic location, which is connected by Rail, Road, Sea and Air.
- Only quality materials are supplied by us with proper manufacturing test certificate, we do provide Third Party Inspection services also for all materials if required.
- Total range of materials is available at single destination with 24 x 7 services.
- We do have a fabrication facility for S.S, M.S & Nickel Alloy as per the client's requirements.

QUALITY ASSURANCE

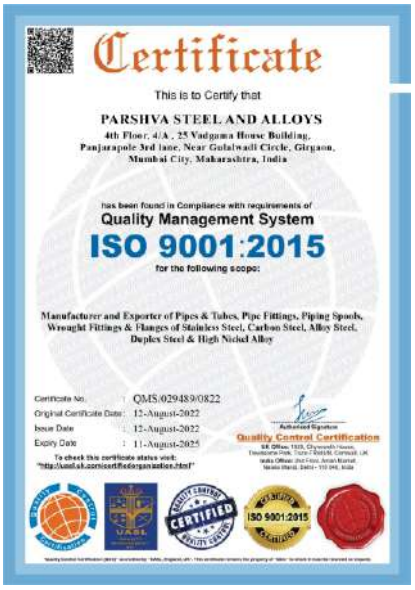
Our design and manufacturing is supported by advance technology which enable us to meet not only the requirements of Internationally accepted manufacturing & Quality standards but also to cope with growing demand for special fittings that meets safety.

Our Heat treatment facilities are equipped with high precision temperature control, which permits to achieve an optimal adjustment of material properties.

Our Quality Assurance System is documented in an approved Quality Assurance Manual and covers all production precesses. Severe control of dimensions and of mechanical properties starting from the raw material and following right through all production through all production steps to laboratory tests on the finished product is exercised in order to maintain the high quality level of Metal Forge products

We offer our products with various testing option like :

- **Hydro Test**
- **Radiographi Test**
- **NACE**
- **HIC Testing**
- **Impact Testing**
- **Magnetic Particle Test**
- **Dye penetrant Test**
- **Bend test**
- **Eddy Current Test**
- **In-situ Test**


Certificate

This is to Certify that

PARSHVA STEEL AND ALLOYS

4th Floor, 4/A , 25 Vadgama House Building, Panjarapole 3rd lane, Near Gulalwadi Circle, Girgaon, Mumbai City, Maharashtra, India

has been found in Compliance with requirements of

Quality Management System

ISO 9001:2015

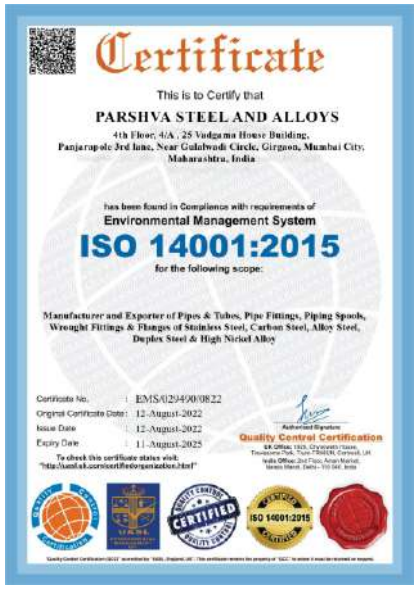
for the following scope:

Manufacturer and Exporter of Pipes & Tubes, Pipe Fittings, Piping Spools, Wrought Fittings & Flanges of Stainless Steel, Carbon Steel, Alloy Steel, Duplex Steel & High Nickel Alloy

Certificate No. : QMS/029489/0822
Original Certificate Date: 12-August-2022
Issue Date : 12-August-2022
Expiry Date : 11-August-2025

To check this certificate status visit: "http://uasl.uk.com/certifiedorganisation.html"

Quality Control Certification


Certificate

This is to Certify that

PARSHVA STEEL AND ALLOYS

4th Floor, 4/A , 25 Vadgama House Building, Panjarapole 3rd lane, Near Gulalwadi Circle, Girgaon, Mumbai City, Maharashtra, India

has been found in Compliance with requirements of

Environmental Management System

ISO 14001:2015

for the following scope:

Manufacturer and Exporter of Pipes & Tubes, Pipe Fittings, Piping Spools, Wrought Fittings & Flanges of Stainless Steel, Carbon Steel, Alloy Steel, Duplex Steel & High Nickel Alloy

Certificate No. : EMS/029490/0822
Original Certificate Date: 12-August-2022
Issue Date : 12-August-2022
Expiry Date : 11-August-2025

To check this certificate status visit: "http://uasl.uk.com/certifiedorganisation.html"

Quality Control Certification


Certificate of Compliance

Application for
Pressure Equipment Directive (PED) 2014/68/EU

This is to certify that the product(s):

Manufacturer and Exporter of Pipes & Tubes, Pipe Fittings, Piping Spools, Wrought Fittings & Flanges of Stainless Steel, Carbon Steel, Alloy Steel, Duplex Steel & High Nickel Alloy

Manufactured by

PARSHVA STEEL AND ALLOYS
4th Floor, 4/A , 25 Vadgama House Building, Panjarapole 3rd lane, Near Gulalwadi Circle, Girgaon, Mumbai City, Maharashtra, India

has been assessed & found in accordance with the requirements of Pressure Equipment Directive (PED) 2014/68/EU.

QCC is non-notified certification body, issue this 'compliance certificate' after audit of manufacturer product(s) & technical file(s). This certificate applies to the tested sample only not for whole production. It's manufacturer sole responsibility to meet all the necessary conformity assessment activities according to PED 2014/68/EU and related standards before placing them on the market & CE mark on the product(s).

Certificate No. : CE/02387/0822
Original Certificate Date : 12-August-2022
Issue Date : 12-August-2022
Expiry Date : 11-August-2025

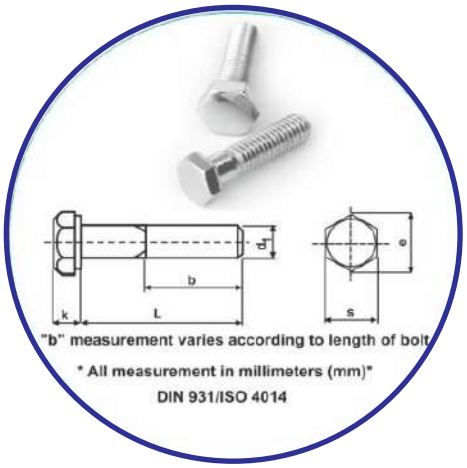
To check this certificate status visit: "http://uasl.uk.com/certifiedorganisation"

CE

Authorised Signature
For Quality Control Certification
UK Office: 82, Adley Street, London - E5 0DZ, United Kingdom

HEX BOLTS & HEX SCREWS DIN 931 / ISO4014 & DIN 933/ISO4017

Our range of Hex Bolts & Hex Screws are widely used for high-end industrial purpose and automobile industry. These are acknowledged for wear & tear resistance, cost effectiveness, and long functional life. The Hex Head Bolts offered by us are at par with international quality standards. These are available in various shapes and sizes, and other customized forms as per client's specifications and details. We offer these bolts in various grades to suit the application area at industry Competitive prices.



Stainless steel :- 304 (B8), 316 (B8M). 316 L, 316 Ti . 317 L, 310,321H (B8T), 347H (B8C), SS 410 (B6) . 904 L (UB6) ,A453 GR 660A/B/C & D

Duplex & Super Duplex Steel :- UNS S31803 / UNS S32205 (F 51) , UNS S32750 (F 53) , UNS S32760 (F 55) , UNS S31254 (SMO 254)

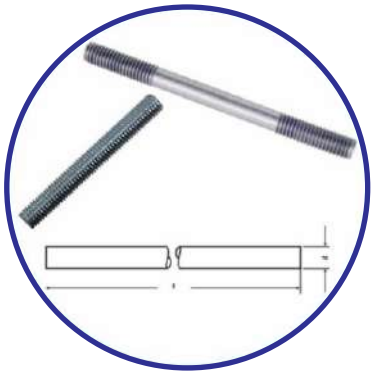
High Nickel Alloys :- Monel 400 , Monel K 500 , Incoloy 600 , Incoloy 625, Incoloy 800H , Incoloy 825 , Incoloy 718 , Inconel X — 750, Alloy 20 (CB 20) , Hastelloy C 276 , Hastelloy C 22, Hastelloy C4

Other Alloys :- Titanium Gr 2, Titanium Gr 5. Titanium Gr 7, Aluminium Bronze (AB 2), phosphorous Bronze (PB), Silicon Bronze C651/C655

Dimension range :- 5/16" (M6) up to 4" (M100) for all grades.

THREADED RODS : DIN 975 & DIN 976 & SOCKET HEAD ALLEN CAP SCREWS

We, Parshva Steel and Alloys are well-known for manufacturing of threaded studs, double-ended threaded studs, half threaded studs with Heavy Hex Nuts in well-known grades like B7, L7, B7M, L7M, A105, etc.



Stainless steel :- 304 (B8), 316 (B8M), 316 L, 316 Ti, 317 L, 310, 321H (B8T), 347H (B8C), SS 410 (B6), 904 L (UB6) A453 GR 660A/B/C & D

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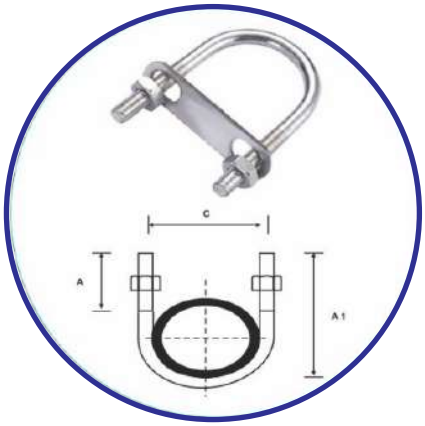
Other Alloys :- Titanium Gr 2, Titanium Gr 5, Titanium Gr 7, Aluminium Bronze (AB 2), phosphorous Bronze (PB), Silicon Bronze C651/C655

Dimension range :- 5/16" (M6) up to 4" (M100) for all grades.

U-BOLTS & ANCHORS

We are able to provide extensive range of U-Bolts. The precision engineered range of U-Bolts offered by us are at par with international quality standards and available in various grades, sizes, thicknesses. and dimensions as per the industry related application. Besides, we also offer these U-Bolts with extra long nuts and in full round, half round and square U-Bolts & Anchors profiles on client's request.



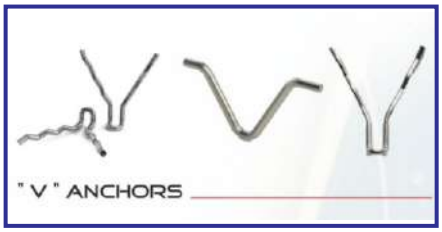
CAST-IN ANCHORS

“Y” Anchors

These anchors are manufactured from 5-12mm diameter bar or from plate section. 'Y' anchors made from round bar can be supplied open to any angle, with a plain end, weld leg or thread. The tips can be fitted with plastic caps to enable expansion of the tips at temperature. “Y” anchors from plate section can be supplied open to any angle, or supplied closed for installation of pre-drilled fibre board or other initial layers prior to opening on site Anchors can also be supplied pre-welded to a mild steel base plate for ease of installation on site.

“V” Anchors

Manufactured from bar diameter 5-12mm. The anchor legs can be supplied to individual requirements with odd lengths, with bends or crimps, and with plastic end caps.



U bolt & Anchors are manufactured in below Grades :

Stainless steel :- 304 (B8), 318 (NM), 318 L, 31611 , 317 L. 310 , 321H (B8T), 347H (B8C), SS 410(B6).904 L (Ub6), A453 GR 660A/B/C & D

Duplex & Super Duplex Steel :- UNS 5318031 UNS S32205 (F 51) , UNS $32750 (F 53), UNS S32760 (F 55), UNS S31254 (SMO 254)

High Nickel Alloys :- Monel 400 . Monet K 500 , Incoloy 600 Incoloy 625 Incoloy 800H, Incoloy 825 , Incoloy 718 , Inconel X - 750, Alloy 20 (CB 20) Hastelloy C 276 , Hastelloy C 22. Hastelloy C4

Other Alloys :- Tiatanium Gr 2, Titanium Gr 5, Titanium Gr 7 Alluminium Bronze (AB 2), phosphorous Bronze (PB), Silicon Bronze C651/C655

Dimension range 5/16" (M6) up to 4" (M100) for all grades

Features: • Accurate Dimension • Corrosion Resistance • High Efficiency • High tensile Strength Durability
Application Area: • Pipe Clamping • Foundation Support • Installations and automotive support systems

HEXAGONAL NUT / HEAVY HEXAGONAL NUTS

Hexagon Nuts are Designed to perfection, these nuts possess close tolerance and precision dimensions. Our quality controllers undertake stringent quality measures in order to provide our clients a flawless range of nuts. Further, to retain the trust of our valued clients, we also provide them with certificate regarding testing parameters undertaken by our organization. We also customize our range of Hexagonal Nuts to meet the different requirements of our clients. Further, our range can be availed at market competitive prices.

Stainless steel :- 304 (B8), 318 (NM), 318 L, 31611 , 317 L. 310 , 321H (B8T), 347H (B8C), SS 410(B6), 904 L (Ub6), A453 GR 660A/B/C & D

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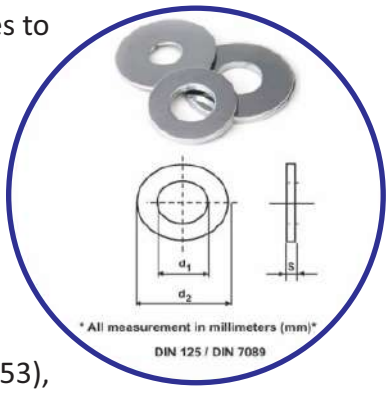
Other Alloys :- Tiatanium Gr 2, Titanium Gr 5, Titanium Gr 7 Alluminium Bronze (AB 2), phosphorous Bronze (PB), Silicon Bronze C651/C655

Dimension range 5/16" (M6) up to 4" (M100) for all grades

PLAIN WASHERS, TAPER WASHERS, BELLIVELLE WASHERS



We manufacture range of Washers in different size options, dimensions, and finishes to suit different industrial applications. These are in high demands in the competitive market owing to their dimensional accuracy, high tensile strength, abrasion resistance, flawless finish, and durability. We also manufacture different types of washers as well i.e. Tab Washers, Heavy Duty Washers, Tooth Washers, etc.

Stainless steel :- 304 (B8), 318 (NM), 318 L, 31611 , 317 L. 310 , 321H (B8T), 347H (B8C), SS 410(B6), 904 L (Ub6), A453 GR 660A/B/C & D

Duplex & Super Duplex Steel :- UNS 5318031 UNS S32205 (F 51) , UNS $32750 (F 53), UNS S32760 (F 55). UNS S31254 (SMO 254)

High Nickel Alloys :- Monel 400 . Monet K 500 , Incoloy 600 Incoloy 625 Incoloy 800H, Incoloy 825 , Incoloy 718 , Inconel X - 750, Alloy 20 (CB 20) Hastelloy C 276 , Hastelloy C 22. Hastelloy C4

Other Alloys :- Tiatanium Gr 2, Titanium Gr 5, Titanium Gr 7 Alluminium Bronze (AB 2), phosphorous Bronze (PB), Silicon Bronze C651/C655

Dimension range 5/16" (M6) up to 4" (M100) for all grades



BUTTWELD FITTINGS

Elbow | **Tee** | **Reducer** | **Return Bends** | **Stub-Ends** | **Cap** | **Collar** | **Cross**

High Nickel Alloys	: Nickel 200,201, Monel K 400 & 500, Inconel 600, 601, 625, 800, 825, Hastelloy C276, Alloy 20.
Cupro Nickel	: 90/10 (UNS C70600), 70/30 (UNSC71500)
Stainless Steel	: ASTM A403 WP 304/ 304L/ 304H/316/ 316L/ 317/ 317L/ 321/ 310/ 347/904L etc.
Duplex Steel	: UNS S31803, UNS S2205
Super Duplex Steel	: UNS S31254, UNS S32750, UNS S32760.
Carbon Steel	: ASTM A234 WPB/A420 WPL3/A420 WPL6/ MSS-SP-75 WPHY 42/46/52 /56/60/65/70
Alloy Steel	: ASTM A234 WP1/ WP5/ WP9/ WP11/ WP22/WP91 etc.
Size	: 1/4" NB TO 32" NB. (Seamless) & 1/4" TO 60" NB (Welded)
Wall Thickness	: Sch. 5S To Sch. XXS.

FORGED FITTINGS & FORGED FLANGES

Elbow | **Tee** | **Thermowell** | **Weldolets** | **Sweepolets** | **Threadolets** | **Nipolets** | **Elbolets** | **Sockolets** | **Latrolets**

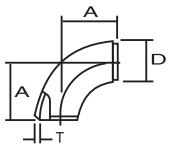
High Nickel Alloys	: Nickel 200,201, Monel K 400 & 500.Inconel 600, 601, 625, 800, 825, Hastelloy C276, Alloy 20.
Cupro Nickel	: 90/10 (UNS C70600), 70/30 (UNSC71500)
Stainless Steel	: A182 304, 304L, 304H, 316, 316L, 316H, 316TI, 321, 347, 347H, 904L.
Duplex Steel	: A182 F51, F60
Super Duplex Steel	: A 182 F44, F53, F55, SMO 254
Carbon Steel	: A105, A105N
Low Alloy Steel	: A350 LF 2, LF3, LF6.
Alloy Steel	: A182 F1, F11, F12, F22, F5, F9, F91, F92
Size	: 1/4" to 4"
Class	: 2000#, 3000#, 6000#, 9000#

Weldneck | **Socketweld** | **Slipon** | **Blind** | **Threaded** | **Long Weldneck** | **LapJoint** | **Spectacle blind** | **Orifice** | **Heavy Barrel Flange** | **Reinforced Nozzle Flanges**

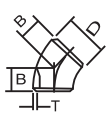
High Nickel Alloys	: Nickel 200,201, Monel K 400 & 500.Inconel 600, 601, 625, 800, 825, Hastelloy C276, Alloy 20.
Cupro Nickel	: 90/10 (UNS C70600), 70/30 (UNSC71500)
Stainless Steel	: A182 304, 304L, 304H, 316, 316L, 316H, 316TI, 321, 347, 347H, 904L.
Duplex Steel	: A182 F51, F60
Super Duplex Steel	: A 182 F44, F53, F55, SMO 254
Carbon Steel	: A105, A105N
Low Alloy Steel	: A350 LF 2, LF3, LF6.
Alloy Steel	: A182 F1, F11, F12, F22, F5, F9, F91, F92
Size	: ½"NB to 72" NB, ANSI B 16.5
Class	: 150#, 300#, 600#, 900#, 1500#, 2500#

SPECIFICATION (ASTM-2002)	CHEMICAL PROPERTIES								MECHANICAL PROPERTIES					OTHERS
	C%	Mn%	P% (Max)	S% (Max)	Si%	Cr%	Mo%	Ni%	U.T.S. (Min) Mpa	Y.S. (Min) Mpa	ELONG. (Min) L	ELONG. (Min) T	Hardness (Max) BHN	
STAINLESS STEEL														
A 403 Gr. WP 304	0.080 Max	2.00 Max	0.045	0.030	1.00 Max	18.0-20.0	-	8.0-11.0	515	205	28	20	-	
A 403 Gr. WP 304L	0.030 Max	2.00 Max	0.045	0.030	1.00 Max	18.0-20.0	-	8.0-12.0	485	170	28	20	-	
A 403 Gr. WP 304H	0.04-0.10	2.00 Max	0.045	0.030	1.00 Max	18.0-20.0	-	8.0-11.0	515	205	28	20	-	
A 403 Gr. WP 304LN	0.030 Max	2.00 Max	0.045	0.030	1.00 Max	18.0-20.0	-	8.0-11.0	515	205	28	20	-	N%=0.10-0.16
A 403 Gr. WP 309	0.20 Max	2.00 Max	0.045	0.030	1.00 Max	22.0-24.0	-	12.0-15.0	515	205	28	20	-	
A 403 Gr. WP 310S	0.080 Max	2.00 Max	0.045	0.030	1.00 Max	24.0-26.0	-	19.0-22.0	515	205	28	20	-	
A 403 Gr. WP 316	0.080 Max	2.00 Max	0.045	0.030	1.00 Max	16.0-18.0	2.0-3.0	10.0-14.0	515	205	28	20	-	
A 403 Gr. WP 316L	0.030 Max	2.00 Max	0.045	0.030	1.00 Max	16.0-18.0	2.0-3.0	10.0-14.0	485	170	28	20	-	
A 403 Gr. WP 316H	0.04-0.10	2.00 Max	0.045	0.030	1.00 Max	16.0-18.0	2.0-3.0	10.0-14.0	515	205	28	20	-	
A 403 Gr. WP 316LN	0.030 Max	2.00 Max	0.045	0.030	1.00 Max	16.0-18.0	2.0-3.0	10.0-13.0	515	205	28	20	-	N%=0.10-0.16
A 403 Gr. WP 317	0.080 Max	2.00 Max	0.045	0.030	1.00 Max	18.0-20.0	3.0-4.0	11.0-15.0	515	205	28	20	-	
A 403 Gr. WP 317L	0.030 Max	2.00 Max	0.045	0.030	1.00 Max	18.0-20.0	3.0-4.0	11.0-15.0	515	205	28	20	-	
A 403 Gr. WP 321	0.080 Max	2.00 Max	0.045	0.030	1.00 Max	17.0-19.0	-	9.0-12.0	515	205	28	20	-	Ti%=(5XC)-0.70
A 403 Gr. WP 321H	0.04-0.10	2.00 Max	0.045	0.030	1.00 Max	17.0-19.0	-	9.0-12.0	515	205	28	20	-	Ti%=(4XC)-0.70
A 403 Gr. WP 347	0.080 Max	2.00 Max	0.045	0.030	1.00 Max	17.0-19.0	-	9.0-12.0	515	205	28	20	-	Cb%=(10XC)-1.10
A 403 Gr. WP 347H	0.04-0.10	2.00 Max	0.045	0.030	1.00 Max	17.0-19.0	-	9.0-12.0	515	205	28	20	-	Cb%=(8XC)-1.10
CARBON STEEL														
A 234 Gr. WPB	0.30 Max	0.29-1.06	0.050	0.058	0.10 Min	0.40 Max	0.15 Max	0.40 Max	415-655	240	30	20	197	Cu%=0.40 Max, Va%=0.08 Max, Cb%=0.02 Max
A 234 Gr. WPC	0.35 Max	0.29-1.06	0.050	0.058	0.10 Min	0.40 Max	0.15 Max	0.40 Max	485-655	275	30	20	197	Cu%=0.40 Max, Va%=0.08 Max, Cb%=0.02 Max
LOW TEMPERATURE CARBON STEEL														
A 420 Gr. WPL6	0.30 Max	0.50-1.35	0.035	0.040	0.15-0.40	0.30 Max	0.12 Max	0.40 Max	415-655	240	30	16.5	197	Cu%=0.40 Max, Va%=0.08 Max, Cb%=0.02 Max **Impact Test**=-45°C, J=17.3-13-6
A 420 Gr. WPL 3	0.20 Max	0.31-0.64	0.050	0.050	0.13-0.37	-	-	3.20-3.80	450-620	240	30	20	197	**Impact Test**=-45°C, J=17.3-13-6
ALLOY STEEL														
A 234 Gr. WP 1	0.28 Max	0.30-0.90	0.045	0.045	0.10-0.50	-	0.44-0.65	-	380-550	205	30	20	197	
A 234 Gr. WP 5	0.15 Max	0.30-0.60	0.040	0.030	0.50 Max	4.0-6.0	0.44-0.65	-	415-585	205	30	20	217	
A 234 Gr. WP 9	0.15 Max	0.30-0.60	0.030	0.030	1.00 Max	8.0-10.0	0.90-1.10	-	415-585	205	30	20	217	
A 234 Gr. WP 11 CL1	0.05-0.15	0.30-0.60	0.030	0.030	0.50-1.0	1.0-1.5	0.44-0.65	-	415-585	205	30	20	197	
A 234 Gr. WP 11 CL2	0.05-0.20	0.30-0.80	0.040	0.040	0.50-1.0	1.0-1.5	0.44-0.65	-	485-655	275	30	20	197	
A 234 Gr. WP 11 CL3	0.05-0.20	0.30-0.80	0.040	0.040	0.50-1.0	1.0-1.5	0.44-0.65	-	520-690	310	30	20	197	
A 234 Gr. WP 12 CL1	0.05-0.20	0.30-0.80	0.045	0.045	0.60 Max	0.80-1.25	0.44-0.65	-	415-585	220	30	20	197	
A 234 Gr. WP 12 CL2	0.05-0.20	0.30-0.80	0.045	0.045	0.60 Max	0.80-1.25	0.44-0.65	-	485-655	275	30	20	197	
A 234 Gr. WP 22 CL1	0.05-0.15	0.30-0.60	0.040	0.040	0.50 Max	1.90-2.60	0.87-1.13	-	415-585	205	30	20	197	
A 234 Gr. WP 22 CL3	0.05-0.15	0.30-0.60	0.040	0.040	0.50 Max	1.90-2.60	0.87-1.13	-	520-690	310	30	20	197	
A 234 Gr. WP 91	0.08-0.12	0.30-0.60	0.020	0.010	0.20-0.50	8.0-9.5	0.85-1.05	0.40 Max	585-760	415	20	-	248	Va%=0.18-0.25, Cb%=0.06-0.10, N%=0.03-0.07, Al%=0.04 Max

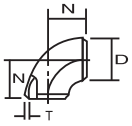
DIMENSIONS OF BUTTWELD FITTINGS AS PER (ANSI B 16.9/ B 16.28 / MSS SP - 43)



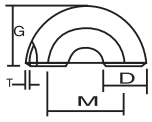
90° Elbow long radius



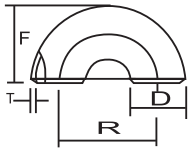
45° Elbow



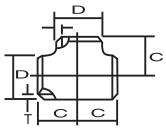
90° Elbow short radius



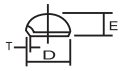
180° Return Bend short radius



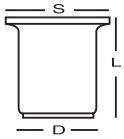
180° Return Bend long radius



Tee equal



Caps

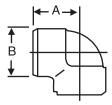


Stub-End

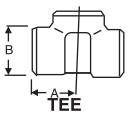
Nominal Pipe Size		Outside Diameter	Center to Face				Back to Face			Center to Center			Length 'L'	
Inch.	mm	D	A	B	C	N	E	F	G	R	M	S	MSS SP43	ANSI B 16.9
1/2	15	21.3	38	16	25	_	25	48	_	38	_	34.9	50.8	76.2
3/4	20	26.7	38	19	29	_	25	51	_	57	_	42.8	50.8	76.2
1	25	33.4	38	22	38	25	38	56	41	76	51	50.8	50.8	101.6
1¼	32	42.2	48	25	48	32	38	70	52	95	64	63.5	50.8	101.6
1½	40	48.3	57	29	57	38	38	83	62	114	76	73	50.8	101.6
2	50	60.3	76	35	64	51	38	106	81	152	102	92	63.5	152.4
2½	65	73.0	95	44	76	64	38	132	100	191	127	104.8	63.5	152.4
3	80	88.9	114	51	86	76	51	159	121	229	152	127	63.5	152.4
3½	90	101.6	133	57	95	89	64	184	140	267	178	139.7	76.2	152.4
4	100	114.3	152	64	105	102	64	210	159	305	203	157.2	76.2	152.4
5	125	141.3	190	79	124	127	76	262	197	381	254	185.7	76.2	203.2
6	150	168.3	229	95	143	152	89	313	237	457	305	215.9	88.9	203.2
8	200	219.1	305	127	178	203	102	414	313	610	406	270	101.6	203.2
10	250	273.1	381	159	216	254	127	518	391	762	508	324	127.0	254.0
12	300	323.9	457	190	254	305	152	619	467	914	610	381	152.4	254.0
14	350	355.6	533	222	279	356	165	711	533	1067	711	412.8	152.4	305.0
16	400	406.4	610	254	305	406	178	813	610	1219	813	470	152.4	305.0
18	450	457.2	686	286	343	457	203	914	686	1372	914	533.4	152.4	305.0
20	500	508.0	762	318	381	508	229	1016	762	1524	1016	584.2	152.4	305.0
22	550	559.0	838	343	419	559	254	1118	838	1676	1118	614.4	152.4	305.0
24	600	610.0	914	381	432	610	267	1219	914	1829	1219	692.2	152.4	305.0
26	650	660.0	991	406	495	660	267	_	_	_	_	_	_	_
28	700	711.0	1067	438	521	711	267	_	_	_	_	_	_	_
30	750	762.0	1143	470	559	762	267	_	_	_	_	_	_	_
32	800	813.0	1219	502	597	813	267	_	_	_	_	_	_	_
34	850	864.0	1295	533	635	864	267	_	_	_	_	_	_	_
36	900	914.0	1372	565	673	914	267							
38	950	965.0	1448	600	711	965	305							
40	1000	1016.0	1524	632	749	1016	305							
42	1050	1067.0	1600	660	762	1067	305							
44	1100	1118.0	1676	695	813	1118	343							
46	1150	1168.0	1753	727	851	1168	343							
48	1200	1219.0	1829	759	889	1219	343							

All dimensions are in Millimeters. Dimensions and other specifications as per customers requirements are available on request

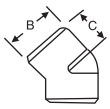
DIMENSIONS OF FORGED / SCREWED FITTINGS AS PER (ANSI B-16.11) THREADED TO (ASA B 2.1)



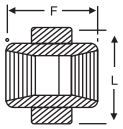
90° ELBOWS



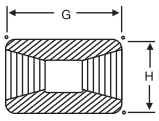
TEE



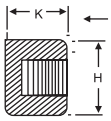
45° ELBOW



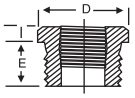
UNION



COUPLING

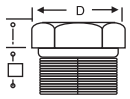


PIPE CAP



BUSHING

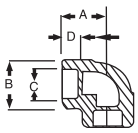
HALF COUPLING =G/2



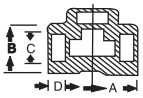
HEX HEAD PLUG

NOM	PIPE	3000 L.B.S.						COMMON FACTORS						6000 L.B.S					
BORE	O.D.	A	B	C	G	H	K	D	E	F	I	J	L	A	B	C	G	H	K
1/8"	10.3	21	22	17	32	16	19	11	10	40	-	6	-	25	25	19	32	22	-
1/4"	13.7	25	25	19	35	19	25	16	11	43	3	6	32	29	33	22	35	25	27
3/8"	17.2	29	33	22	38	22	25	17.5	13	48	4	8	38	33	38	25	38	32	27
1/2"	21.3	33	38	25	48	29	32	22	15	51	5	8	46	38	46	29	48	38	33
3/4"	26.7	38	46	29	51	35	37	27	16	57	6	10	51	44	56	33	51	44	38
1"	33.4	44	56	33	60	44	41	35	19	64	6	10	60	51	62	35	60	57	43
1¼"	42.2	51	62	35	67	57	44	44.5	21	70	7	14	72	60	75	43	67	64	46
1½"	48.3	60	75	43	79	64	44	51	21	79	8	16	80	64	84	44	79	76	48
2"	60.3	64	84	45	86	76	48	63.5	22	88	9	17	94	83	102	52	86	92	51
2½"	73.02	83	102	52	92	92	60	76	27	118	10	21	122	95	121	64	92	108	64
3"	89.0	95	121	64	108	108	65	89	29	121	10	25	140	106	146	79	108	127	68
4"	114.5	114	152	79	121	140	68	117.5	32	150	13	25	180	114	152	79	121	159	75

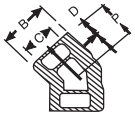
DIMENSIONS OF SOCKETWELD FITTINGS AS PER (ANSI B-16.11)



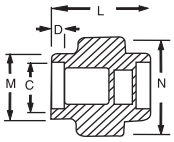
90' ELBOWS



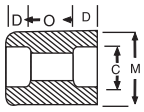
TEE



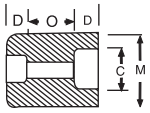
45' ELBOW



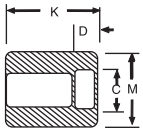
UNION



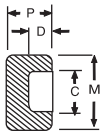
COUPLING



REDUCER



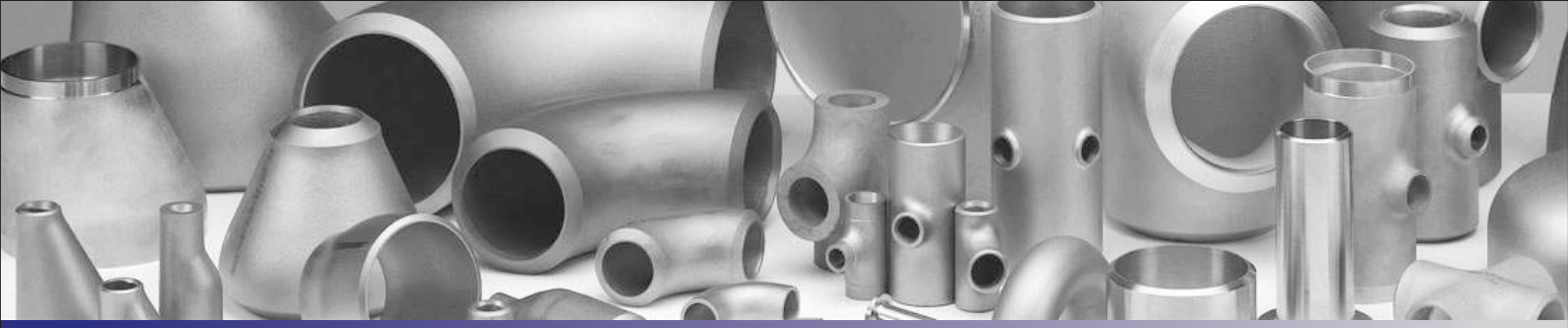
HALF COUPLING



CAP

NOM	PIPE	3000 L.B.S.						COMMON FACTORS						6000 L.B.S					
BORE	O.D.	A	B	K	J	L	M	N	P	Q	C	D	O	O	A	B	M	K	N
1/8"	10.3	22	18.5	26	16	40	17.3	32	17.5	10	10.7	10	5	8	22	22	20	25	46
1/4"	13.7	22	22	26	18	43	21.2	32	17.5	10	14.1	10	5	8	27	25	24	25	51
3/8"	17.2	25	25	26	19	48	25.4	36	19	10	17.6	10	3	9	27	28	28	26	60
1/2"	21.3	27	32	30	21	51	31	43	22	10	21.7	10	6	13	31	34	34	31	72
3/4"	26.7	34	38	36	24	57	37	50	25	13	27	13	6	13	37	42	41	35	80
1"	33.4	37	46	40	25	64	45.2	60	27	13	33.8	13	9	17	42	50	50	40	94
1¼"	42.2	42	56	40	29	70	55	70	30	13	42.6	13	9	17	47	59	58	41	100
1½"	48.3	47	62	40	30	79	61.4	78	32	13	48.7	13	9	17	53	67	66	43	122
2"	60.3	56	75	52	37	89	75	95	38	13	61.2	16	15	23	59	84	83	55	
2½"	73.02	60	92	52	48	114	91.3	125	38	16	73.8	16	14	24		102		56	
3"	89.00	76	110	52	51	127	108.8	140	44	16	89.8	16	14	24		121		58	
4"	114.50	88	137	58		150	136.9		48	19	115.5	19	14	24		152		64	

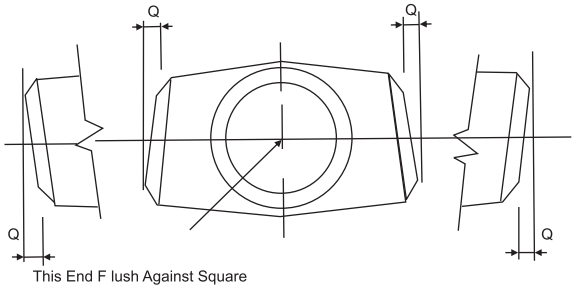
All dimensions are in Millimeters. Dimensions and other specifications as per customers requirements are available on request



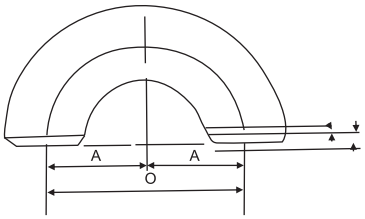
DIMENSIONAL TOLERANCE OF BUTTWELD FITTINGS AS PER (ANSI B 16.9 / B 16.28 / MSS SP - 43)

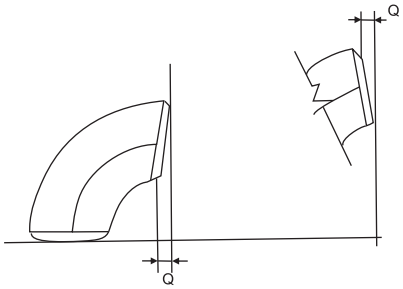
ALL FITTINGS					90°/60°/45° 30° ELBOWS &TEES		REDUC-ERS		180° RETURNS						CAPS		ANGULARITY TOLERANCE			
Nominal Pipe size INCH/MM	Outside Diameter at Bevel		Inside Dia Meter	Wall Thickness at End	Center to End		Overall Length Dimension		Center to End		Back to Face Dimension		Alingnment of End Dimentions		Overall Lengh		Nominal Pipe Size	Off Angel Inch/mm		Off Plane
	D			T	A,B,C,M		H		O		K		U		E			Q		P
	(1) B16.9	MSS Sp43	(2) B16.9	B16.9	B16.9	MSS SP43	B16.9	MSS SP43	B16.9	MSS SP43	B16.9	MSS SP43	B16.9	MSS SP43	B16.9	MSS SP43		B16.9	MSS SP75	B16.9
½" - 2½" 15 - 65	±1.6 - 0.8	±0.80	±0.8	Not Less Than 87.5% Nominal Thk	FROM ½" TO 18 15 TO 600	FROM 3/4"	FROM 1/2" - 24" 15 - 600	FROM 1/2" - 8" 15 - 200	±6	±6.35	±6.0	±6.4	±1	±0.8	±3	±3.17	½" - 4" 15 - 100	±1	16" - 24" 400 - 600 1.6	±2
3" - 3½" 80 - 90	±1.6		±1.6														5" - 8" 125 - 200	±2		±4
4" 100					±2	±1.60	±2	±1.60									10" - 12" 250 - 300	±3		±5
5" - 6" 125 - 150	+2.4 -1.6	+1.60 -0.80													±6	±6.35	14" - 16" 350 - 400	±3		±7
8" 200																	18" - 24" 450 - 600	±4		±10
10" - 18" 250 - 450	+4 -3.2	+2.38 -0.80	±3.2			±2.40		10" - 24" +2.38 250 - 600	±10	±10			±2.0"	±1.60			26" - 30" 650 - 750	±5	26" - 36" 650 - 900 2.4	±10
20" - 24" 500 - 600	+6.4 -4.8	3.17 0.79	±4.8														32" - 42" 800 - 1050	±5		±13
26" - 30" 650 - 750	+6.4 -4.8	±4.8			±3		FROM 26" - 48" 650NB - 1200 NB ±5								±10		44" - 48" 1100 - 1200	±5	32" - 48" 950 - 1200 3.2	±20
32" - 48" 800 - 1200	+6.4 -4.8				±5												42 - 48" 1050 - 1200	±5		±20

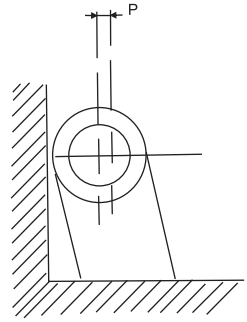
All dimensions are in Millimeters.

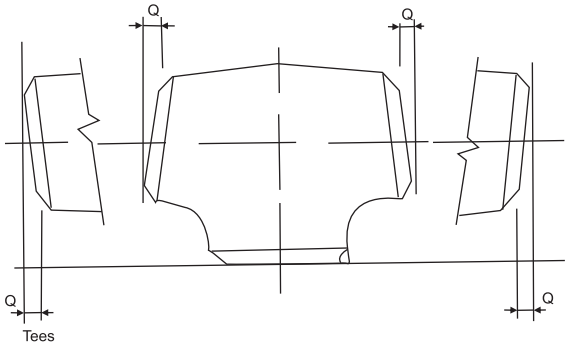


This End F lush Against Square

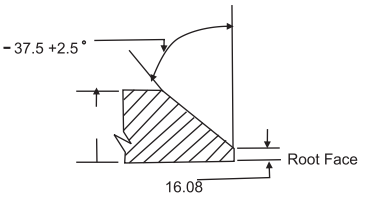


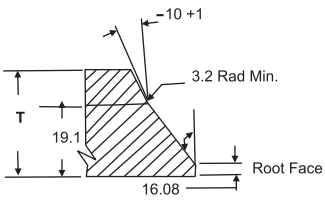






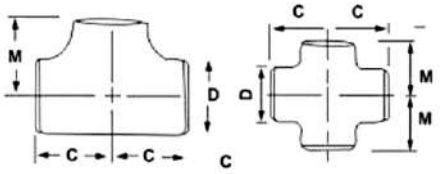
Tees



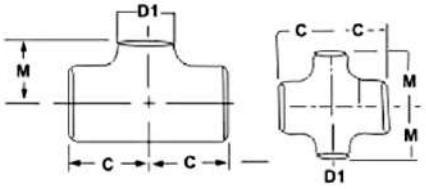


DIMENSIONS OF BUTTWELD FITTINGS TO ANSI B 16.9 (upto 48") / MSS SP 43 (upto 24")

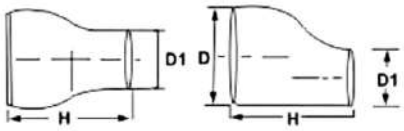
EQUAL TEE & CROSS



UNEQUAL TEE & CROSS



CONCENTRIC & ECCENTRIC REDUCERS



Nominal Pipe Size	Center to End Run	Center to End Branch	Length
D X D1	C	M	H
1x1	38	38	-
1x1/2	38	38	51
1x3/4	38	38	51
11/4x11/4	48	48	51
11/4x1/2	48	48	51
11/4x3/4	48	48	51
11/4x1	48	48	51
11/2x11/2	57	57	-
11/2x1/2	57	57	64
11/2x3/4	57	57	64
11/2x1	57	57	64
11/2x11/4	57	57	64
2x2	64	64	-
2x3/4	64	44	76
2x1	64	51	76
2x11/4	64	57	76
2x11/2	64	60	76
21/2x21/2	76	76	-
21/2x1	76	57	89
21/2x11/4	76	64	89
21/2x11/2	76	67	89
21/2x2	76	70	89
3x3	89	89	-
3x11/4	86	70	89
3x11/2	86	73	89
3x2	86	76	89
3x21/2	86	83	89
31/2x31/2	95	95	-
31/2x11/2	95	79	102
31/2x2	95	83	102
31/2 x 21/2	95	89	102
31/2 x 3	95	92	102
4x4	105	105	-
4x11/2	105	86	102
4x2	105	89	102
4x21/2	105	95	102
4x3	105	98	102
4x31/2	105	102	102

Nominal Pipe Size	Center to End Run	Center to End Branch	Length
D X D1	C	M	H
5x5	124	124	-
5x2	124	105	127
5x21/2	124	108	127
5x3	124	111	127
5x31/2	124	114	127
5x4	124	117	127
6x6	143	143	-
6x21/2	143	121	140
6x3	143	124	140
6x31/2	143	127	140
6x4	143	130	140
6x5	143	137	140
8x8	178	178	-
8x6	178	168	152
8x5	178	162	152
8x4	178	156	152
8x31/2	178	152	152
10x10	216	216	-
10x8	216	203	178
10x6	216	294	178
10x5	216	291	178
10x4	216	284	178
12x12	254	254	-
12x10	254	241	203
12x8	254	229	203
12x6	254	219	203
12x5	254	216	203
14x14	279	279	-
14x12	279	270	330
14x10	279	257	330
14x8	279	248	330
14x6	279	238	330
16x16	305	305	-
16x14	305	305	356
16x12	305	295	356
16x10	305	283	356
16x8	305	273	356
16x6	305	264	(356)

Nominal Pipe Size	Center to End Run	Center to End Branch	Length
D X D1	C	M	H
18x18	343	343	-
18x16	343	330	381
18x14	343	330	381
18x12	343	321	381
18x10	343	308	381
18x8	343	298	(381)
20x20	381	381	-
20x18	381	368	508
20x16	381	356	508
20x14	381	356	508
20x12	381	346	508
20x10	381	333	(508)
20x8	381	324	(508)
22x22	419	419	-
22x20	419	406	508
22x18	419	384	508
22x16	419	381	508
22x14	419	381	508
22x12	419	371	(508)
22x10	419	359	(508)
24x24	432	432	-
24x22	432	432	508
24x20	432	432	508
24x18	432	419	508
24x16	432	406	508
24x14	432	406	(508)
24x12	432	397	(508)
24x10	432	384	(508)
26x26	495	495	-
26x24	495	483	610
26x22	495	470	610
26x20	495	457	610
26x18	495	444	610
26x16	495	432	(610)
26x14	495	432	(610)
26x12	495	422	(610)
28x28	521	521	-
28x26	521	521	610
28x24	521	508	610
28x22	521	495	610
28x20	521	483	610
28x18	521	470	(610)
28x16	521	457	(610)
28x14	521	457	(610)
28x12	521	448	(610)

Nominal Pipe Size	Center to End Run	Center to End Branch	Length
D X D1	C	M	H
30x30	559	559	-
30x28	559	546	610
30x26	559	546	610
30x24	559	533	610
30x22	559	521	610
30x20	559	(508)	(610)
30x18	559	(495)	(610)
30x16	559	(483)	(610)
30x14	559	(483)	(610)
30x12	559	(473)	(610)
30x10	559	460	(610)
32x32	597	597	-
32x30	597	584	610
32x28	597	572	610
32x26	597	572	610
32x24	597	559	610
32x22	597	546	(610)
32x20	597	533	(610)
32x18	597	521	(610)
32x16	597	508	(610)
32x14	597	508	(610)
34x34	635	635	-
34x32	635	622	610
34x30	635	610	610
34x28	635	597	610
34x26	635	597	610
34x24	635	584	(610)
34x22	635	572	(610)
34x20	635	559	(610)
34x18	635	546	(610)
34x16	635	533	(610)
36x36	673	673	-
36x34	673	660	610
36x32	673	648	610
36x30	673	635	610
36x28	673	622	610
36x26	673	622	(610)
36x24	673	610	(610)
36x22	673	597	(610)
36x20	673	584	(610)
36x18	673	572	(610)
36x16	673	559	(610)

Nominal Pipe Size	Center to End Run	Center to End Branch	Length
D X D1	C	M	H
38x38	711	711	-
38x36	711	711	610
38x34	711	698	610
38x32	711	686	610
38x30	711	673	610
38x28	711	648	(610)
38x26	711	648	(610)
38x24	711	635	(610)
38x22	711	622	(610)
38x20	711	610	(610)
38x18	711	597	(610)
40x40	749	749	-
40x38	749	749	610
40x36	749	737	610
40x34	749	724	610
40x32	749	711	610
40x30	749	698	(610)
40x28	749	673	(610)
40x26	794	673	(610)
40x24	749	660	(610)
40x22	749	648	(610)
40x20	749	635	(610)
40x18	749	622	(610)
42x42	762	711	-
42x40	762	711	610
42x38	762	711	610
42x36	762	711	610
42x34	762	711	610
42x32	762	711	(610)
42x30	762	711	(610)
42x28	762	698	(610)
42x26	762	698	(610)
42x24	762	660	(610)
42x22	762	660	(610)
42x20	762	660	(610)
42x18	762	648	(610)
42x16	762	635	(610)

Nominal Pipe Size	Center to End Run	Center to End Branch	Length
D X D1	C	M	H
44x44	813	762	-
44x42	813	762	610
44x40	813	749	610
44x38	813	737	610
44x36	813	724	610
44x34	813	724	(610)
44x32	813	711	(610)
44x30	813	711	(610)
44x28	813	698	(610)
44x26	813	698	(610)
44x24	813	698	(610)
44x22	813	686	(610)
44x20	813	686	(610)
46x46	851	800	-
46x44	851	800	711
46x42	851	787	711
46x40	851	775	711
46x38	851	762	711
46x36	851	762	(711)
46x34	851	749	(711)
46x32	851	749	(711)
46x30	851	749	(711)
46x28	851	737	(711)
46x26	851	737	(711)
46x24	851	724	(711)
46x22	851	724	(711)
48x48	889	838	-
48x46	889	838	711
48x44	889	838	711
48x42	889	813	711
48x40	889	813	711
48x38	889	813	(711)
48x36	889	787	(711)
48x34	889	787	(711)
48x32	889	787	(711)
48x30	889	762	(711)
48x28	889	762	(711)
48x26	889	762	(711)
48x24	889	737	(711)
48x22	889	737	(711)

1. Figures in brackets are as per the manufacturer's standard
2. Outlet dimension M for run size NPS 14 (DN 350) and large is recommended but not required

All dimensions are in mm

DIMENSIONAL TOLERANCE OF FORGED, SCREWED & SOCKETWELD FITTINGS AS PER (ANSI B 16.11)

CENTRE TO BOTTOM OF SOCKET

For Sizes 6 NPS and 8 NPS	± 0.8
For Sizes 10 NPS, 15 NPS and 20 NPS	± 1.5
For Sizes 25 NPS, 32 NPS, 40 NPS and 50 NPS	± 2
For Sizes 65 NPS and larger	± 2.5

BOTTOM TO BOTTOM OF SOCKETS COUPLINGS

For Sizes 6 NPS and 8 NPS	± 1.5
For Sizes 10 NPS, 15 NPS and 20 NPS	± 3
For Sizes 25 NPS, 40 NPS and 50 NPS	± 4
Fpr Sizes 65 and larger	± 5

BOTTOM TO SOCKET TO OPPOSITE FACE HALF COUPLINGS

For Sizes 6 NPS and NPS	± 0.8
For Sizes 10 NPS, 15 NPS and 20 NPS	± 1.5
For Sizes 25 NPS, 32 nps, 40 NPS and 50 NPS	± 2
For Sizes 65 NPS and Larger	± 2.5

AMERICAN STANDARD B 16.11

This standard covers the following range of sizes for use with Schedules 40 and 80 pipe as of the publication date of this catalogue.

90^0 and 45^0 Elbows	6 NPS through 100 NPS
Tees	6 NPS through 100 NPS
Crosses	6 NPS throught 100 NPS
Couplings	6 NPS through 100 NPS

Sizes 15 NPS through 80 NPS are included for use with Schedule 160 pipe, Fittings for use with Double Extra Strong pipe are not included in this standard.

BORE DIAMETER OF SOCKET

For Sizes 50 NPS and Smaller	+ 0.25 - 0.00
For Sizes 65 NPS and larger	+ 0.35 - 0.00

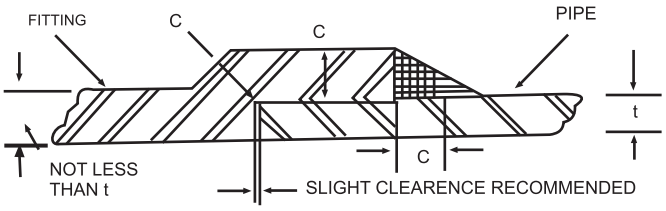
CONCENTRICITY OF BORES

The socket and fitting bores shall be conentric within a tolerance of ± 0.8 for all Sizes.

COINCIDENCE OF AXES

The maximum allowable variation in the alignment of the Socket and fitting bore axes shall be 1.5 mm in 304.8 mm

FILLET WELD DIMENSIONS



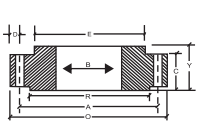
C-Minimum = 1.25t (but not less than 4.0 mm.)

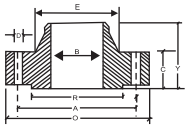
t = Minimum Pipe Wall Thickness

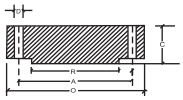
Minimum requirements for socket and fillet weld dimensions as prescribed in the American Standard Code for Pressure Piping, ASA B 31.1

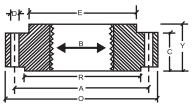
SPECIFICATION (ASTM-2002)	CHEMICAL PROPERTIES								MECHANICAL PROPERTIES					OTHERS
	C%	Mn%	P% (Max)	S% (Max)	Si%	Cr%	Ni%	Mo%	U.T.S. (Min) Mpa	Y.S. (Min) Mpa	ELONG. (Min) %	RED. AREA %	Hardness (Max) BHN	
A 182 Gr. F 304	0.080 Max	2.00 Max	0.045	0.030	1.00 Max	18.0-20.0	8.0-11.0	-	515	205	30	50	-	N%=0.10max
A 182 Gr. F 304L	0.030 Max	2.00 Max	0.045	0.030	1.00 Max	18.0-20.0	8.0-13.0	-	485	170	30	50	-	N%=0.10max
A 182 Gr. F 304H	0.04-0.10	2.00 Max	0.045	0.030	1.00 Max	18.0-20.0	8.0-11.0	-	515	205	30	50	-	-
A 182 Gr. F 304LN	0.030 Max	2.00 Max	0.045	0.030	1.00 Max	18.0-20.0	8.0-10.5	-	515	205	30	50	-	N%=0.10-0.16
A 182 Gr. F 309H	0.04-0.10	2.00 Max	0.045	0.030	1.00 Max	22.0-24.0	12.0-15.0	-	515	205	30	50	-	-
A 182 Gr. F 310	0.25 Max	2.00 Max	0.045	0.030	1.00 Max	24.0-26.0	19.0-22.0	-	515	205	30	50	-	-
A 182 Gr. F 316	0.080 Max	2.00 Max	0.045	0.030	1.00 Max	16.0-18.0	10.0-14.0	2.0-3.0	515	205	30	50	-	N%=0.10max
A 182 Gr. F 316L	0.030 Max	2.00 Max	0.045	0.030	1.00 Max	16.0-18.0	10.0-15.0	2.0-3.0	485	170	30	50	-	N%=0.10max
A 182 Gr. F 316H	0.04-0.10	2.00 Max	0.045	0.030	1.00 Max	16.0-18.0	10.0-14.0	2.0-3.0	515	205	30	50	-	-
A 182 Gr. F 316LN	0.030 Max	2.00 Max	0.045	0.030	1.00 Max	16.0-18.0	11.0-14.0	2.0-3.0	515	205	30	50	-	N%=0.10-0.16
A 182 Gr. F 317	0.080 Max	2.00 Max	0.045	0.030	1.00 Max	18.0-20.0	11.0-15.0	3.0-4.0	515	205	30	50	-	-
A 182 Gr. F 317L	0.030 Max	2.00 Max	0.045	0.030	1.00 Max	18.0-20.0	11.0-15.0	3.0-4.0	485	170	30	50	-	-
A 182 Gr. F 321	0.080 Max	2.00 Max	0.045	0.030	1.00 Max	17.0-19.0	9.0-12.0	-	515	205	30	50	-	Ti%=(5xC)-0.70
A 182 Gr. F 321H	0.04-0.10	2.00 Max	0.045	0.030	1.00 Max	17.0-19.0	9.0-12.0	-	515	205	30	50	-	Ti%=(4xC)-0.70
A 182 Gr. F 347	0.080 Max	2.00 Max	0.045	0.030	1.00 Max	17.0-20.0	9.0-13.0	-	515	205	30	50	-	Cb%=(10xC)-1.10
A 182 Gr. F 347H	0.04-0.10	2.00 Max	0.045	0.030	1.00 Max	17.0-20.0	9.0-13.0	-	515	205	30	50	-	Cb%=(8xC)-1.10
CARBON STEEL														
A 105	0.35 Max	0.60-1.05	0.035	0.040	0.10-0.35	0.30 Max	0.40 Max	0.12 Max	485	250	22	30	187	Cu%=0.40 Max, Va %= 0.08 Max
LOW TEMPERATURE CARBON STEEL														
A 350 Gr. LF 1	0.35 Max	0.60-1.35	0.035	0.040	0.15-0.30	0.30 Max	0.40 Max	0.12 Max	415-585	205	25	38	197	Cu%=0.40Max, Cb%=0.02 Max, Va %= 0.05 Max, Impact Test =-28.9°C, J=18 Min
A 350 Gr. LF 2	0.30 Max	0.60-1.35	0.035	0.040	0.15-0.30	0.30 Max	0.40 Max	0.12 Max	485-655	250	22	30	197	Cu%=0.40Max, Cb%=0.02 Max, Va %= 0.05 Max, Impact Test =-45.6°C, J=18 Min
A 350 Gr. LF 3	0.20 Max	0.90 Max	0.035	0.040	0.20-0.35	0.30 Max	3.30-3.70	0.12 Max	485-655	260	22	35	197	Cu%=0.40Max, Cb%=0.02 Max, Va %= 0.03 Max, Impact Test =-101°C, J=20 Min
ALLOY STEEL														
A 182 Gr. F 1	0.28 max	0.60-0.90	0.045	0.045	0.15-0.35	-	-	0.44-0.65	485	275	20	30	143-192	-
A 182 Gr. F 2	0.05-0.21	0.30-080	0.040	0.040	0.10-0.60	0.50-0.81	-	0.44-.65	485	275	20	30	143-192	-
A 182 Gr. F 5	0.15 max	0.30-0.60	0.030	0.030	0.50 Max	4.0-6.0	0.5 Max	0.44-0.65	485	275	20	35	143-217	-
A 182 Gr. F 9	0.15 max	0.30-0.60	0.030	0.030	0.50-1.00	8.0-10.0	-	0.90-1.10	585	380	20	40	179-217	-
A 182 Gr. F 11 CL1	0.05-0.15	0.30-0.60	0.030	0.030	0.50-1.00	1.0-1.50	-	0.44-0.65	415	205	20	45	121-174	-
A 182 Gr. F 11 CL2	0.10-0.20	0.30-0.80	0.040	0.040	0.50-1.0	1.0-1.50	-	0.40-0.65	485	275	20	30	143-207	-
A 182 Gr. F 11 CL3	0.10-0.20	0.30-0.80	0.040	0.040	0.50-1.0	1.0-1.50	-	0.44-0.65	515	310	20	30	156-207	-
A 182 Gr. F 12 CL1	0.05-0.15	0.30-0.60	0.045	0.045	0.50 Max	0.80-1.25	-	0.44-0.65	415	220	20	45	121-174	-
A 182 Gr. F 12 CL2	0.10-0.20	0.30-0.80	0.040	0.040	0.10-0.60	0.80-1.25	-	0.44-0.65	485	275	20	30	143-207	-
A 182 Gr. F 22 CL1	0.05-0.15	0.30-0.60	0.040	0.040	0.50 Max	2.0-2.5	-	0.87-1.13	415	205	20	35	170	-
A 182 Gr. F 22 CL3	0.05-0.15	0.30-0.60	0.040	0.040	0.50 Max	2.0-2.50	-	0.87-1.13	515	310	20	30	156-207	-
A 182 Gr. F 91	0.08-0.12	0.30-0.60	0.020	0.010	0.20-0.50	8.0-9.5	0.40 Max	0.85-1.05	585	415	20	40	248	Cb%=0.06-0.10, N%=0.03-0.07, Va %= 0.18-0.25

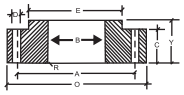
DIMENSIONS OF FORGED FLANGES AS PER (ANSI B 16.5)

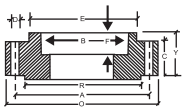

SLIP-ON FLANGE


WELDING NECK FLANGE


BLIND FLANGE


THREADED FLANGE


LAP JOINT FLANGE


SOCKET WELD FLANGE

150 LBS

Nominal Pipe Size		Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk. of Flange	Dia of Hub	Length through Hub			Dia of Bore		Dia of R/F	Depth of Socket
(MM)	(INCH.)	O	A	D		C	E	S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B	R	F
15	1/2	88.9	60.3	15.9	4	11.1	30.2	15.9	47.6	15.9	22.3	22.9	34.9	9.5
20	3/4	98.4	69.8	15.9	4	12.7	38.1	15.9	52.4	15.9	27.7	28.2	42.9	11.1
25	1	107.9	79.4	15.9	4	14.3	49.2	17.5	55.6	17.5	34.5	35.0	50.8	12.7
32	1¼	117.5	88.9	15.9	4	15.9	58.7	20.6	57.1	20.6	43.2	43.7	63.5	14.3
40	1½	127.0	98.4	15.9	4	17.5	65.1	22.2	61.9	22.2	49.5	50.0	73.0	15.9
50	2	152.4	120.6	19.0	4	19.0	77.8	25.4	63.5	25.4	62.0	62.5	92.1	17.5
65	2½	177.8	139.7	19.0	4	22.2	90.5	28.6	69.8	28.6	74.7	75.4	104.8	19.0
80	3	190.5	152.4	19.0	4	23.8	107.9	30.2	69.8	30.2	90.7	91.4	127.0	20.6
100	4	228.6	190.5	19.0	8	23.8	134.9	33.3	76.2	33.3	116.1	116.8	157.2	23.8
125	5	254.0	215.9	22.2	8	23.8	163.5	36.5	88.9	36.5	143.8	144.5	185.7	23.8
150	6	279.4	241.3	22.2	8	25.4	192.1	39.7	88.9	39.7	170.7	171.4	215.9	27.0
200	8	342.9	298.4	22.2	8	28.6	246.1	44.4	101.6	44.4	221.5	222.2	269.9	31.7
250	10	406.4	361.9	25.4	12	30.2	304.8	49.2	101.6	49.2	276.3	277.4	323.8	33.3
300	12	482.6	431.8	25.4	12	31.8	365.1	55.6	114.3	55.6	327.1	328.2	381.0	39.7
350	14	533.4	476.2	28.6	12	34.9	400.0	57.1	127.0	79.4	359.1	360.2	412.7	41.3
400	16	596.9	539.7	28.6	16	36.5	457.2	63.5	127.0	87.3	410.5	411.2	469.9	44.4
450	18	635.0	577.8	31.7	16	39.7	504.8	68.3	139.7	96.8	461.8	462.3	533.4	49.2
500	20	698.5	635.0	31.7	20	42.9	558.8	73.0	144.5	103.2	513.1	514.3	584.2	54.0
600	24	812.8	749.3	34.9	20	47.6	663.6	82.5	152.4	111.1	615.9	615.9	692.1	63.5

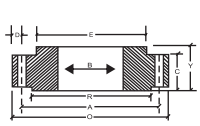
300 LBS

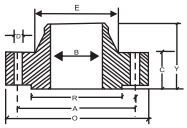
Nominal Pipe Size		Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk. of Flange	Dia of Hub	Length through Hub			Dia of Bore		Dia of R/F	Depth of Socket
(MM)	(INCH.)	O	A	D		C	E	S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B	R	F
15	1/2	95.2	66.7	15.9	4	14.3	38.1	22.2	52.4	22.2	22.3	22.9	34.9	9.5
20	3/4	117.5	82.5	19.0	4	15.9	47.6	25.4	57.1	25.4	27.7	28.2	42.9	11.1
25	1	123.8	88.9	19.0	4	17.5	54.0	27.0	61.9	27.0	34.5	35.0	50.8	12.7
32	1¼	133.3	98.4	19.0	4	19.0	63.5	27.0	65.1	27.0	43.2	43.7	63.5	14.3
40	1½	155.6	114.3	22.2	4	20.6	69.8	30.2	68.3	30.2	49.5	50.0	73.0	15.9
50	2	165.1	127.0	19.0	8	22.2	84.1	33.3	69.8	33.3	62.0	62.5	92.1	17.5
65	2½	190.5	149.2	22.2	8	25.4	100.0	38.1	76.2	38.1	74.7	75.4	104.8	19.0
80	3	209.5	168.3	22.2	8	28.6	117.5	42.9	79.4	42.9	90.7	91.4	127.0	20.6
100	4	254.0	200.0	22.2	8	31.8	146.0	47.6	85.7	47.6	116.1	116.8	157.2	23.8
125	5	279.4	234.9	22.2	8	34.9	177.8	50.8	98.4	50.8	143.8	144.5	185.7	-
150	6	317.5	269.9	22.2	12	36.5	206.4	52.4	98.4	52.4	170.7	171.4	215.9	-
200	8	381.0	330.2	25.4	12	41.3	260.3	61.9	111.1	61.9	221.5	222.2	269.9	-
250	10	444.5	387.3	28.6	16	47.6	320.7	66.7	117.5	95.2	276.3	277.4	323.8	-
300	12	520.7	450.8	31.7	16	50.8	374.6	73.0	130.2	101.6	327.1	328.2	381.0	-
350	14	584.2	514.3	31.7	20	54.0	425.4	76.2	142.9	111.1	359.1	360.2	412.7	-
400	16	647.7	571.5	34.9	20	57.2	482.6	82.5	146.0	120.6	410.5	411.2	469.9	-
450	18	711.2	628.5	34.9	24	60.3	533.4	88.9	158.7	130.2	461.8	462.3	533.4	-
500	20	774.7	685.8	34.9	24	63.5	587.4	95.2	161.9	139.7	513.1	514.3	584.2	-
600	24	914.4	812.8	41.3	24	69.8	701.7	106.4	168.3	152.4	615.9	615.9	692.1	-

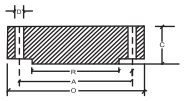
All dimensions are in Millimeters. Flanges except Lap joint will be furnished with (6.35 mm) raised face, which is included in "thickness(C)"and "length through hub(Y)"

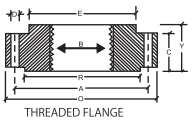
Flanges available upto size 100" in 150# & 300#, up to 48" in 600# & 900# and upto 24" in 1500# & 2500#

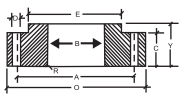
DIMENSIONS OF FORGED FLANGES AS PER (ANSI B 16.5)

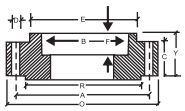

SLIP-ON FLANGE


WELDING NECK FLANGE


BLIND FLANGE


THREADED FLANGE


LAP JOINT FLANGE


SOCKET WELD FLANGE

600 LBS

Nominal Pipe Size		Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Lenght through Hub			Dia of Bore		Dia of R/F	Depth of Socket	Pipe Dia
								S/O & S/W	W/N	L/J	S/O & S/W	L/J			
(MM)	(INCH.)	O	A	D		C	E	Y	Y	Y	B	B	R	F	X
15	1/2	95.2	66.7	15.9	4	14.3	38.1	22.2	52.4	22.3	22.3	22.8	34.9	9.5	21.33
20	3/4	117.5	82.5	19.0	4	15.9	47.6	25.4	57.1	25.4	27.7	28.1	42.9	11.1	26.67
25	1	123.8	88.9	19.0	4	17.5	54.0	27.0	61.9	26.9	34.5	35.0	50.8	12.7	33.40
32	1¼	133.3	98.4	19.0	4	20.6	63.5	28.6	66.7	28.4	43.2	43.6	63.5	14.2	42.16
40	1½	155.6	114.3	22.2	4	22.2	69.8	31.7	69.8	31.7	49.5	50.0	73.0	15.8	48.26
50	2	165.1	127.0	19.0	8	25.4	84.1	36.5	73.0	36.5	62.0	62.4	92.1	17.4	60.31
65	2½	190.5	149.2	22.2	8	28.6	100.0	41.3	79.4	41.1	74.7	75.4	104.8	19.0	73.02
80	3	209.5	168.3	22.2	8	31.8	117.5	46.0	82.5	45.9	90.7	91.4	127.0	-	88.90
100	4	273.0	215.9	25.4	8	38.1	152.4	54.0	101.6	53.8	116.1	116.8	157.2	-	114.30
125	5	330.2	266.7	28.6	8	44.4	188.9	60.3	114.3	60.4	143.8	144.5	185.7	-	141.30
150	6	355.6	292.1	28.6	12	47.6	222.2	66.7	117.5	66.5	170.7	171.4	215.9	-	168.27
200	8	419.1	349.2	31.7	12	55.6	273.0	76.2	133.3	76.2	221.5	222.2	269.9	-	219.07
250	10	508.0	431.8	34.9	16	63.5	342.9	85.7	152.4	111.2	276.3	277.4	323.8	-	273.05
300	12	558.8	488.9	34.9	20	66.7	400.0	92.1	155.6	117.3	327.1	328.2	381.0	-	323.85
350	14	603.2	527.0	38.1	20	69.9	431.8	93.7	165.1	127.0	359.1	360.1	412.7	-	355.60
400	16	685.8	603.2	41.3	20	76.2	495.3	106.4	177.8	139.7	410.5	411.2	469.9	-	406.40
450	18	742.9	654.0	44.4	20	82.6	546.1	117.5	184.1	152.4	461.8	462.3	533.4	-	457.20
500	20	812.8	723.9	44.4	24	88.9	609.9	127.0	190.5	165.1	513.1	514.3	584.2	-	508.00
600	24	939.8	838.2	50.8	24	101.6	717.5	139.7	203.2	184.1	615.9	615.9	692.1	-	609.60

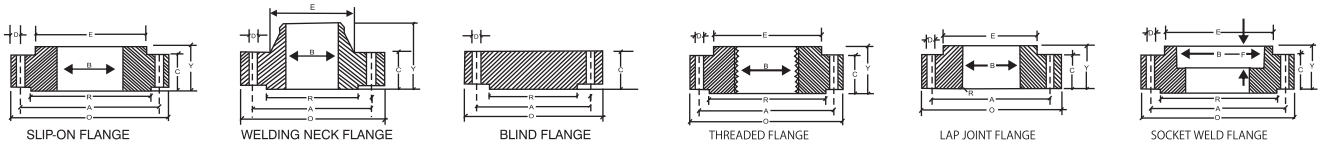
900 LBS

Nominal Pipe Size		Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Lenght through Hub			Dia of Bore		Dia of R/F	Depth of Socket	Pipe Dia
								S/O & S/W	W/N	L/J	S/O & S/W	L/J			
(MM)	(INCH.)	O	A	D		C	E	Y	Y	Y	B	B	R	F	X
15	1/2	120.6	82.5	22.2	4	22.2	38.1	31.7	60.3	31.7	22.3	22.8	34.9	9.5	21.33
20	3/4	130.2	88.9	22.2	4	25.4	44.4	34.9	69.8	35.0	27.7	28.1	42.9	11.1	26.67
25	1	149.2	101.6	25.4	4	28.6	52.4	41.3	73.0	41.1	34.5	35.0	50.8	12.7	33.40
32	1¼	158.7	111.1	25.4	4	28.6	63.5	41.3	73.0	41.1	43.2	43.6	63.5	14.2	42.16
40	1½	177.8	123.8	28.6	4	31.8	69.8	44.4	82.5	44.4	49.5	50.0	73.0	15.8	48.26
50	2	215.9	165.1	25.4	8	38.1	104.8	57.1	101.6	57.1	62.0	62.4	92.1	17.4	60.31
65	2½	244.5	190.5	28.6	8	41.3	123.8	63.5	104.8	63.5	74.7	75.4	104.8	19.0	73.02
80	3	241.3	190.5	25.4	8	38.1	127.0	53.9	101.6	53.8	90.7	91.4	127.0	-	88.90
100	4	292.1	234.9	31.7	8	44.4	158.7	69.8	114.3	69.8	116.0	116.8	157.2	-	114.30
125	5	349.2	279.4	35.0	8	50.8	190.5	79.3	127.0	79.2	143.7	144.5	185.7	-	141.30
150	6	381.0	317.5	31.7	12	55.6	234.9	85.8	139.7	85.8	170.6	171.4	215.9	-	168.27
200	8	469.9	393.7	38.1	12	63.5	298.4	101.6	162.0	114.3	221.4	222.2	269.9	-	219.07
250	10	546.1	469.9	38.1	16	69.8	368.3	107.9	184.1	127.0	276.3	277.3	323.8	-	273.05
300	12	609.6	533.4	38.1	20	79.3	419.1	117.4	200.0	142.7	327.1	328.1	381.0	-	323.85

All dimensions are in Millimeters. Flanges except Lap joint will be furnished with (6.35 mm) raised face, which is included in "thickness(C)"and "length through hub(Y)"

Flanges available upto size 100" in 150# & 300#, up to 48" in 600# & 900# and upto 24" in 1500# & 2500#

DIMENSIONS OF FORGED FLANGES AS PER (ANSI B 16.5)



1500

Nominal Pipe Size		Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Lenght through Hub			Dia of Bore		Dia of R/F	Depth of Socket	Pipe Dia
								S/O & S/W	W/N	L/J	S/O & S/W	L/J			
(MM)	(INCH.)	O	A	D		C	E	Y	Y	Y	B	B	R	F	X
15	1/2	120.6	82.5	22.2	4	22.2	38.1	31.7	60.3	31.7	22.3	22.8	34.9	9.5	21.33
20	3/4	130.2	88.9	22.2	4	25.4	44.4	34.9	69.8	34.9	27.7	28.1	42.9	11.1	26.67
25	1	149.2	101.6	25.4	4	28.6	52.4	41.3	73.0	41.3	34.5	35.0	50.8	12.7	33.40
32	1¼	158.7	111.1	25.4	4	28.6	63.5	41.3	73.0	41.3	43.2	43.6	63.5	14.2	42.16
40	1½	177.8	123.8	28.6	4	31.8	69.8	44.4	82.5	44.4	49.5	50.0	73.0	15.8	48.26
50	2	215.9	165.1	25.4	8	38.1	104.8	57.1	101.6	57.1	62.0	62.0	92.1	17.4	60.31
65	2½	244.5	190.5	28.6	8	41.3	123.8	63.5	104.8	63.5	74.7	75.4	104.8	19.0	73.02
80	3	266.7	203.2	31.7	8	47.6	133.3	73.0	117.5	73.0	90.7	91.4	127.0	-	88.90
100	4	311.1	241.3	34.9	8	54.0	161.9	90.5	123.0	90.4	116.1	116.8	157.2	-	114.30
125	5	374.6	292.1	41.3	8	73.0	196.8	104.8	155.6	104.8	143.8	144.5	185.7	-	141.30
150	6	393.7	317.5	38.1	12	82.6	228.6	119.1	171.4	119.1	170.7	171.4	215.9	-	168.27
200	8	482.6	393.7	44.4	12	92.1	292.1	142.9	212.7	142.8	221.5	222.2	269.9	-	219.07
250	10	584.2	482.6	50.8	12	107.9	368.3	158.7	254.0	177.8	276.3	277.3	323.8	-	273.05
300	12	673.1	571.5	54.0	16	123.8	450.8	181.0	282.5	218.9	327.1	328.1	381.0	-	323.85

2500

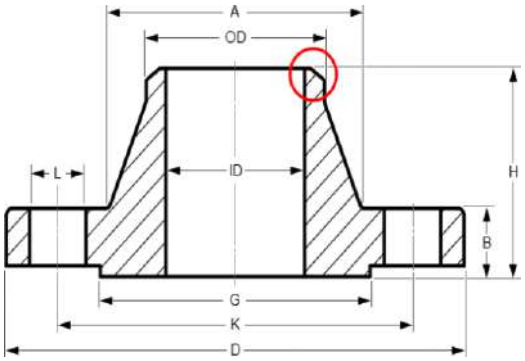
Nominal Pipe Size		Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Lenght through Hub			Dia of Bore		Dia of R/F	Depth of Socket	Pipe Dia
								S/O & S/W	W/N	L/J	S/O & S/W	L/J			
(MM)	(INCH.)	O	A	D		C	E	Y	Y	Y	B	B	R	F	X
15	1/2	133.3	88.9	22.2	4	30.2	42.9	39.7	73.0	39.7	22.3	22.3	34.9	-	21.33
20	3/4	139.7	95.3	22.2	4	31.7	50.8	42.9	79.4	42.9	27.7	27.7	42.9	-	26.67
25	1	158.7	107.9	25.4	4	34.9	57.1	47.7	88.9	47.7	34.5	34.5	50.8	-	33.40
32	1¼	184.1	130.2	28.6	4	38.1	73.0	52.4	95.2	52.4	43.2	43.2	63.5	-	42.16
40	1½	203.2	146.0	31.7	4	44.4	79.4	60.3	111.1	60.3	49.5	49.5	73.0	-	48.26
50	2	234.9	171.4	28.6	8	50.8	95.2	69.8	127.0	69.8	62.4	62.0	92.1	-	60.31
65	2½	266.7	196.8	31.7	8	57.1	114.3	79.4	142.9	79.4	74.7	74.7	104.8	-	73.02
80	3	304.8	228.6	34.9	8	66.7	133.3	92.1	168.3	92.1	90.7	90.7	127.0	-	88.90
100	4	355.6	273.0	41.2	8	76.2	165.1	107.9	190.5	107.9	116.1	116.1	157.2	-	114.30
125	5	419.1	323.8	47.6	8	92.1	203.2	130.0	228.6	130.0	143.8	143.8	185.7	-	141.30
150	6	482.6	368.3	54.0	8	107.9	234.9	152.4	273.0	152.4	170.7	170.7	215.9	-	168.27
200	8	552.4	438.1	54.0	12	127.0	304.8	177.8	317.5	177.8	221.5	221.5	269.9	-	129.07
250	10	673.1	539.7	66.7	12	165.1	374.6	228.6	419.1	228.6	276.3	276.3	323.8	-	273.05
300	12	762.0	619.1	73.0	12	184.1	441.3	254.0	463.5	254.0	327.1	327.1	381.0	-	323.85

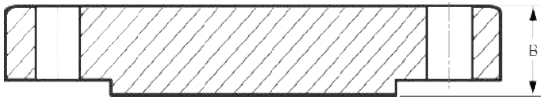
All dimensions are in Millimeters. Flanges except Lap joint will be furnished with (6.35 mm) raised face, which is included in "thickness(C)"and "length through hub(Y)"

Flanges available upto size 100" in 150# & 300#, up to 48" in 600# & 900# and upto 24" in 1500# & 2500#

DIMENSIONS OF FORGED FLANGES AS PER ASME B 16.47 SR. A

Series A





150#

NPS	OD	D	B (WNF)	B (BLF)	H	A	G	K	L	No of Bolts
26	660.4	870	68.3	68.3	120.6	676	749	806.4	34.9	24
28	711.2	925	71.5	71.5	125.6	727	800	863.6	34.9	28
30	762	985	74.7	74.7	136.6	781	857	914.4	34.9	28
32	812.8	1060	81	81	144.6	832	914	977.9	41.3	28
34	863.6	1110	82.6	82.6	149.6	883	965	1028.7	41.3	32
36	914.4	1170	90.5	90.5	157.6	933	1022	1085.8	41.3	32
38	965.2	1240	87.4	87.4	157.6	991	1073	1149.4	41.3	32
40	1016	1290	90.5	90.5	163.6	1041	1124	1200.2	41.3	36
42	1066.8	1345	96.9	96.9	171.6	1092	1194	1257.3	41.3	36
44	1117.6	1405	101.7	101.7	177.6	1143	1245	1314.4	41.3	40
46	1168.4	1455	103.2	103.2	185.6	1197	1295	1365.2	41.3	40
48	1219.2	1510	108	108	192.6	1248	1359	1422.4	41.3	44
50	1270	1570	111.2	111.2	203.6	1302	1410	1479.6	47.6	44
52	1320.8	1625	115.9	115.9	209.6	1353	1461	1536.7	47.6	44
54	1371.6	1685	120.7	120.7	215.6	1403	1511	1593.8	47.6	44
56	1422.4	1745	123.9	123.9	228.6	1457	1575	1651	47.6	48
58	1473.2	1805	128.6	128.6	234.6	1508	1626	1708.2	47.6	48
60	1524	1855	131.8	131.8	239.6	1559	1676	1759	47.6	52

300#

NPS	OD	D	B (WNF)	B (BLF)	H	A	G	K	L	No of Bolts
26	660.4	970	79.4	84.2	184.6	721	749	876.3	44.5	28
28	711.2	1035	85.8	90.5	196.6	775	800	939.8	44.5	28
30	762	1090	92.1	95.3	209.6	827	857	997	47.6	28
32	812.8	1150	98.5	100.1	222.6	881	914	1054.1	50.8	28
34	863.6	1205	101.7	104.8	231.6	937	965	1104.9	50.8	28
36	914.4	1270	104.8	111.2	241.6	991	1022	1168.4	54	32
38	965.2	1170	108	108	180.6	994	1029	1092.2	41.3	32
40	1016	1240	114.4	114.4	193.6	1048	1086	1155.7	44.5	32
42	1066.8	1290	119.1	119.1	199.6	1099	1137	1206.5	44.5	32
44	1117.6	1355	123.9	123.9	206.6	1149	1194	1263.6	47.6	32
46	1168.4	1415	128.6	128.6	215.6	1203	1245	1320.8	50.8	28
48	1219.2	1465	133.4	133.4	223.6	1254	1302	1371.6	50.8	32
50	1270.2	1530	139.8	139.8	231.6	1305	1359	1428.8	54	32
52	1320.8	1580	144.5	144.5	238.6	1356	1410	1479.6	54	32
54	1371.6	1660	152.5	152.5	252.6	1410	1467	1549.4	60.3	28
56	1422.4	1710	154	154	260.6	1464	1518	1600.2	60.3	28
58	1473.2	1760	158.8	158.8	266.6	1514	1575	1651	60.3	32
60	1524	1810	163.6	163.6	272.6	1564	1626	1701.8	60.3	32

600#

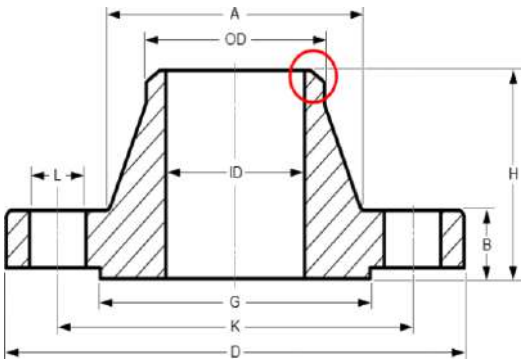
NPS	OD	D	B (WNF)	B (BLF)	H	A	G	K	L	No of Bolts
26	660.4	1015	114.35	131.85	228.35	748	749	914.4	50.8	28
28	711.2	1075	117.55	138.15	241.35	803	800	965.2	54	28
30	762	1130	120.65	146.05	254.35	862	857	1022.4	54	28
32	812.8	1195	123.85	154.05	266.35	918	914	1079.5	60.3	28
34	863.6	1245	127.05	160.35	276.35	973	965	1130.3	60.3	28
36	914.4	1315	130.25	168.35	289.35	1032	1022	1193.8	66.7	28
38	965.2	1270	158.75	161.35	260.35	1022	1054	1162	60.3	28
40	1016	1320	165.15	168.35	270.35	1073	1111	1212.8	60.3	32
42	1066.8	1405	174.65	177.85	285.35	1127	1168	1282.7	66.7	28
44	1117.6	1455	179.45	184.15	295.35	1181	1226	1333.5	66.7	32
46	1168.4	1510	185.75	192.15	306.35	1235	1276	1390.6	66.7	32
48	1219.2	1595	195.35	201.65	322.35	1289	1334	1460.5	73	32
50	1270.2	1670	203.25	209.55	335.35	1343	1384	1524	79.4	28
52	1320.8	1720	209.55	215.95	343.35	1394	1435	1574.8	79.4	32
54	1371.6	1780	215.95	223.85	355.35	1448	1492	1632	79.4	32
56	1422.4	1855	223.75	231.85	368.35	1502	1543	1695.4	85.7	32
58	1473.2	1905	228.65	238.15	376.35	1553	1600	1746.2	85.7	32
60	1524	1995	239.75	249.25	395.35	1610	1657	1822.4	92.1	28

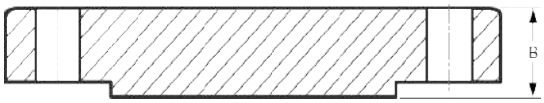
900#

NPS	OD	D	B (WNF)	B (BLF)	H	A	G	K	L	No of Bolts
26	660.4	1085	146.05	166.75	292.35	775	749	952.5	73	20
28	711.2	1170	149.25	177.85	304.35	832	800	1022.4	79.4	20
30	762	1230	155.65	188.95	317.35	889	857	1085.8	79.4	20
32	812.8	1315	165.15	200.05	336.35	946	914	1155.7	85.7	20
34	863.6	1395	171.45	211.15	355.35	1006	965	1225.6	92.1	20
36	914.4	1460	177.85	220.75	368.35	1064	1022	1289	92.1	20
38	965.2	1460	196.85	222.25	358.35	1073	1099	1289	92.1	20
40	1016	1510	203.25	230.25	370.35	1127	1162	1339.8	92.1	24
42	1066.8	1560	212.75	238.15	377.35	1176	1213	1390.6	92.1	24
44	1117.6	1650	220.75	249.25	397.35	1235	1270	1463.7	98.4	24
46	1168.4	1735	231.95	261.95	417.35	1292	1334	1536.7	104.8	24
48	1219.2	1785	239.75	269.95	425.35	1343	1384	1587.5	104.8	24

DIMENSIONS OF FORGED FLANGES AS PER ASME B 16.47 SR. B

Series B





150#

NPS	OD	D	B (WNF)	B (BLF)	H	A	G	K	L	No of Bolts
26	661.9	785	41.4	44.6	88.6	684	711	744.5	22.2	36
28	712.7	835	44.6	47.8	95.6	735	762	795.3	22.2	40
30	763.5	885	44.6	50.9	99.6	787	813	846.1	22.2	44
32	814.3	940	46.2	54.1	107.6	840	864	900.1	22.2	48
34	865.1	1005	49.3	57.3	110.6	892	921	957.3	25.4	40
36	915.9	1055	52.5	58.9	117.6	945	972	1009.6	25.4	44
38	968.2	1125	54.1	63.6	123.6	997	1022	1070	28.6	40
40	1019	1175	55.7	66.8	128.6	1049	1080	1120.8	28.6	44
42	1069.8	1225	58.9	68.4	133.6	1102	1130	1171.6	28.6	48
44	1120.6	1275	60.5	71.6	136.6	1153	1181	1222.4	28.6	52
46	1171.4	1340	62	74.7	144.6	1205	1235	1284.3	31.8	40
48	1222.2	1390	65.2	77.9	149.6	1257	1289	1335.1	31.8	44
50	1273	1445	68.4	81.1	153.6	1308	1340	1385.9	31.8	48
52	1323.8	1495	70	84.3	157.6	1360	1391	1436.7	31.8	52
54	1374.6	1550	71.6	87.4	161.6	1413	1441	1492.2	31.8	56
56	1425.4	1600	73.2	90.6	166.6	1465	1492	1543	31.8	60
58	1476.2	1675	74.7	93.5	174.6	1516	1543	1611.3	34.9	48
60	1527	1725	76.3	97	179.6	1570	1600	1662.1	34.9	52

300#

NPS	OD	D	B (WNF)	B (BLF)	H	A	G	K	L	No of Bolts
26	665.2	865	89	89	169.6	702	737	803.3	34.9	32
28	716	920	89	89	149.6	756	787	857.2	34.9	36
30	768.4	990	93.7	93.7	157.6	813	845	920.8	38.1	36
32	819.2	1055	103.2	103.2	168.6	864	902	977.9	41.3	32
34	870	1110	103.2	103.2	172.6	918	953	1031.9	41.3	36
36	920.8	1170	103.2	103.2	180.6	965	1010	1089	44.5	32
38	971.6	1220	111.2	111.2	191.6	1016	1060	1139.8	44.5	36
40	1022.4	1275	115.9	115.9	198.6	1067	1114	1190.6	44.5	40
42	1074.7	1335	119.1	119.1	204.6	1118	1168	1244.6	47.6	36
44	1125.5	1385	127.1	127.1	214.6	1173	1219	1295.4	47.6	40
46	1176.3	1460	128.6	130.2	222.6	1229	1270	1365.2	50.8	36
48	1227.1	1510	128.6	135	223.6	1278	1327	1416	50.8	40
50	1277.9	1560	138.2	139.8	234.6	1330	1378	1466.8	50.8	44
52	1328.7	1615	142.9	144.2	242.6	1383	1429	1517.6	50.8	48
54	1379.5	1675	136.6	149.3	239.6	1435	1480	1578	50.8	48
56	1430.3	1765	154	157	268.6	1494	1537	1651	60.3	36
58	1481.1	1825	154	162	274.6	1548	1594	1712.9	60.3	40
60	1557.3	1880	150.9	166.7	271.6	1599	1651	1763.7	60.3	40

600#

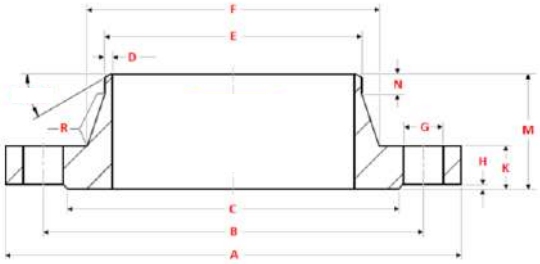
NPS	OD	D	B (WNF)	B (BLF)	H	A	G	K	L	No of Bolts
26	660.4	890	117.55	117.55	187.35	698	727	806.4	44.5	28
28	711.2	950	122.25	122.25	196.35	752	784	863.6	47.6	28
30	762	1020	131.85	133.35	211.35	806	841	927.1	50.8	28
32	812.8	1085	136.55	141.25	222.35	860	895	984.2	54	28
34	863.6	1160	147.65	150.55	239.35	914	953	1054.1	60.3	24
36	914.4	1215	152.45	157.25	249.35	968	1010	1104.9	60.3	28
38	965.2	1270	158.75	161.35	260.35	1022	1054	1162	60.3	28
40	1016	1320	165.15	168.35	270.35	1073	1111	1212.8	60.3	32
42	1066.8	1405	174.65	177.85	285.35	1127	1168	1282.7	66.7	28
44	1117.6	1455	179.45	184.15	295.35	1181	1226	1333.5	66.7	32
46	1168.4	1510	185.75	192.15	306.35	1235	1276	1390.6	66.7	32
48	1219.2	1595	195.35	201.65	322.35	1289	1334	1460.5	73	32
50	1270.2	1670	203.25	209.55	335.35	1343	1384	1524	79.4	28
52	1320.8	1720	209.55	215.95	343.35	1394	1435	1574.8	79.4	32
54	1371.6	1780	215.95	223.85	355.35	1448	1492	1632	79.4	32
56	1422.4	1855	223.75	231.85	368.35	1502	1543	1695.4	85.7	32
58	1473.2	1905	228.65	238.15	376.35	1553	1600	1746.2	85.7	32
60	1524	1995	239.75	249.25	395.35	1610	1657	1822.4	92.1	28

900#

NPS	OD	D	B (WNF)	B (BLF)	H	A	G	K	L	No of Bolts
26	660.4	1020	141.35	160.35	265.35	743	762	901.7	66.7	20
28	711.2	1105	154.05	173.05	282.35	797	819	971.6	73	20
30	762	1180	161.95	182.45	295.35	851	876	1035	79.4	20
32	812.8	1240	166.75	192.35	309.35	908	927	1092.2	79.4	20
34	863.6	1315	177.85	201.35	325.35	962	991	1155.7	85.7	20
36	914.4	1345	179.45	208.05	331.35	1016	1029	1200.2	79.4	24
38	965.2	1460	196.85	222.25	358.35	1073	1099	1289	92.1	20
40	1016	1510	203.25	230.25	370.35	1127	1162	1339.8	92.1	24
42	1066.8	1560	212.75	238.15	377.35	1176	1213	1390.6	92.1	24
44	1117.6	1650	220.75	249.25	397.35	1235	1270	1463.7	98.4	24
46	1168.4	1735	231.95	261.95	417.35	1292	1334	1536.7	104.8	24
48	1219.2	1785	239.75	269.95	425.35	1343	1384	1587.5	104.8	24

DIMENSIONS OF FORGED FLANGES AS PER EN 1092-1

PN 10



DN	A	B	C	D	E	F	G	H	K	M	N	R	No of bolts
10	90	60	40	2	17.2	28	14	2	16	35	6	4	4
15	95	65	45	2	21.3	32	14	2	16	38	6	4	4
20	105	75	58	2.3	26.9	40	14	2	18	40	6	4	4
25	115	85	68	2.6	33.7	46	14	2	18	40	6	4	4
32	140	100	78	2.6	42.4	56	18	2	18	42	6	6	4
40	150	110	88	2.6	48.3	64	18	3	18	45	7	6	4
50	165	125	102	2.9	60.3	74	18	3	18	45	8	6	4
65	185	145	122	2.9	76.1	92	18	3	18	45	10	6	8
80	200	160	138	3.2	88.9	105	18	3	20	50	10	6	8
100	220	180	158	3.6	114.3	131	18	3	20	52	12	8	8
125	250	210	188	4	139.7	156	18	3	22	55	12	8	8
150	285	240	212	4.5	168.3	184	22	3	22	55	12	10	8
200	340	295	268	6.3	219.1	234	22	3	24	62	16	10	8
250	395	350	320	6.3	273	292	22	3	26	68	16	12	12
300	445	400	370	7.1	323.9	342	22	4	26	68	16	12	12
350	505	460	430	7.1	355.6	385	22	4	26	68	16	12	16
400	565	515	482	7.1	406.4	440	26	4	26	72	16	12	16
450	615	565	532	7.1	457	488	26	4	28	72	16	12	20
500	670	620	585	7.1	508	542	26	4	28	75	16	12	20
600	780	725	685	8	610	642	30	5	30	82	18	12	20

PN 16

DN	A	B	C	D	E	F	G	H	K	M	N	R	No of bolts
10	90	60	40	2	17.2	28	14	2	16	35	6	4	4
15	95	65	45	2	21.3	32	14	2	16	38	6	4	4
20	105	75	58	2.3	26.9	40	14	2	18	40	6	4	4
25	115	85	68	2.6	33.7	46	14	2	18	40	6	4	4
32	140	100	78	2.6	42.4	56	18	2	18	42	6	6	4
40	150	110	88	2.6	48.3	64	18	3	18	45	7	6	4
50	165	125	102	2.9	60.3	74	18	3	18	45	8	6	4
65	185	145	122	2.9	76.1	92	18	3	18	45	10	6	8
80	200	160	138	3.2	88.9	105	18	3	20	50	10	6	8
100	220	180	158	3.6	114.3	131	18	3	20	52	12	8	8
125	250	210	188	4	139.7	156	18	3	22	55	12	8	8
150	285	240	212	4.5	168.3	184	22	3	22	55	12	10	8
200	340	295	268	6.3	219.1	235	22	3	24	62	16	10	12
250	405	355	320	6.3	273	292	26	3	26	70	16	12	12
300	460	410	378	7.1	323.9	344	26	4	28	78	16	12	12
350	520	470	438	8	355.6	390	26	4	30	82	16	12	16
400	580	525	490	8	406.4	445	30	4	32	85	16	12	16
450	640	585	550	8	457	490	30	4	34	83	16	12	20
500	715	650	610	8	508	548	33	4	36	84	16	12	20
600	840	770	725	10	610	670	36	5	40	88	18	12	20

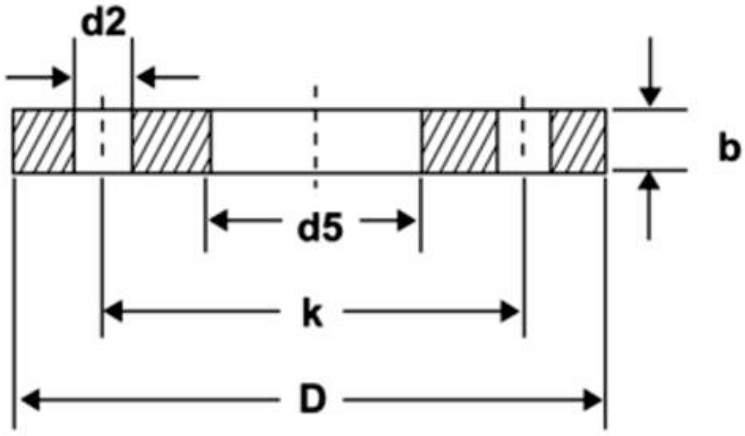
PN 25

DN	A	B	C	D	E	F	G	H	K	M	N	R	No of bolts
10	90	60	40	2	17.2	28	14	2	16	35	6	4	4
15	95	65	45	2	21.3	32	14	2	16	38	6	4	4
20	105	75	58	2.3	26.9	40	14	2	18	40	6	4	4
25	115	85	68	2.6	33.7	46	14	2	18	40	6	4	4
32	140	100	78	2.6	42.4	56	18	2	18	42	6	6	4
40	150	110	88	2.6	48.3	64	18	3	18	45	7	6	4
50	165	125	102	2.9	60.3	75	18	3	20	48	8	6	4
65	185	145	122	2.9	76.1	90	18	3	22	52	10	6	8
80	200	160	138	3.2	88.9	105	18	3	24	58	12	8	8
100	235	190	162	3.6	114.3	134	22	3	24	65	12	8	8
125	270	220	188	4	139.7	162	26	3	26	68	12	8	8
150	300	250	218	4.5	168.3	192	26	3	28	75	12	10	8
200	360	310	278	6.3	219.1	244	26	3	30	80	16	10	12
250	425	370	335	7.1	273	298	30	3	32	88	18	12	12
300	485	430	395	8	323.9	352	30	4	34	92	18	12	16
350	555	490	450	8	355.6	398	33	4	38	100	20	12	16
400	620	550	505	8.8	406.4	452	36	4	40	110	20	12	16
450	670	600	555	8.8	457	500	36	4	46	110	20	12	20
500	730	660	615	10	508	558	36	4	48	125	20	12	20
600	845	770	720	11	610	660	39	5	48	125	20	12	20

PN 40

DN	A	B	C	D	E	F	G	H	K	M	N	R	No of bolts
10	90	60	40	2	17.2	28	14	2	16	35	6	4	4
15	95	65	45	2	21.3	32	14	2	16	38	6	4	4
20	105	75	58	2.3	26.9	40	14	2	18	40	6	4	4
25	115	85	68	2.6	33.7	46	14	2	18	40	6	4	4
32	140	100	78	2.6	42.4	56	18	2	18	42	6	6	4
40	150	110	88	2.6	48.3	64	18	3	18	45	7	6	4
50	165	125	102	2.9	60.3	75	18	3	20	48	8	6	4
65	185	145	122	2.9	76.1	90	18	3	22	52	10	6	8
80	200	160	138	3.2	88.9	105	18	3	24	58	12	8	8
100	235	190	162	3.6	114.3	134	22	3	24	65	12	8	8
125	270	220	188	4	139.7	162	26	3	26	68	12	8	8
150	300	250	218	4.5	168.3	192	26	3	28	75	12	10	8
200	375	320	285	6.3	219.1	244	30	3	34	88	16	10	12
250	450	385	345	7.1	273	306	33	3	38	105	18	12	12
300	515	450	410	8	323.9	362	33	4	42	115	18	12	16
350	580	510	465	8.8	355.6	408	36	4	46	125	20	12	16
400	660	585	535	11	406.4	462	39	4	50	135	20	12	16
450	685	610	560	12.5	457	500	39	4	57	135	20	12	20
500	755	670	615	14.2	508	562	42	4	57	140	20	12	20
600	890	795	735	16	610	666	48	5	72	150	20	12	20

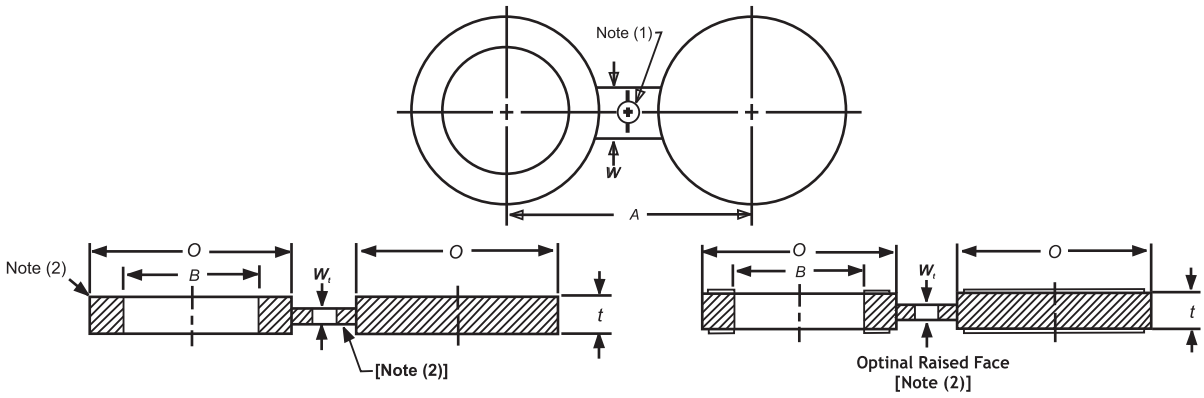
DIMENSIONS OF FLANGES AS PER BS 10



N.B. Size	Table	Dia of Flange	Bore of Slip-on	Thickness of Flange	Pitch Circle Dia (PCD)	Dia of Bolt Holes	No of Bolts
½"	D	95.25	22.3	4.76	66.68	14.29	4
	E	95.25	22.3	6.35	66.68	15.88	4
	F	95.25	22.3	9.53	66.68	15.88	4
	H	114.3	22.3	12.7	82.55	18.26	4
¾"	D	101.6	27.7	4.76	73.03	14.29	4
	E	101.6	27.7	6.35	73.03	14.3	4
	F	101.6	27.7	9.53	73.03	14.3	4
	H	114.3	27.7	12.70	82.55	17.5	4
1"	D	114.3	34.6	4.76	82.55	14.29	4
	E	114.3	34.6	7.14	82.55	14.3	4
	F	120.65	34.6	9.53	87.31	17.5	4
	H	120.65	34.6	14.3	87.31	17.5	4
1-1/4"	D	120.65	43.2	6.35	87.31	14.29	4
	E	120.65	43.2	7.94	87.31	14.3	4
	F	133.35	43.2	12.70	98.43	17.5	4
	H	133.35	43.2	17.46	98.43	17.5	4
1-1/2"	D	133.35	49.5	6.53	98.43	14.29	4
	E	133.35	49.5	8.73	98.43	14.3	4
	F	139.7	49.5	12.70	104.78	17.5	4
	H	139.7	49.5	17.46	104.78	17.5	4
2"	D	152.4	62	7.94	114.3	14.29	4
	E	152.4	62	9.53	114.3	17.5	4
	F	165.1	62	15.88	127.0	17.5	4
	H	165.1	62	19.05	127.0	17.5	4
2-1/2"	D	165.1	75	7.94	127.0	18.26	4
	E	165.1	75	10.31	127.0	17.5	4
	F	184.15	75	15.88	146.05	17.5	4
	H	184.15	75	19.05	145.05	17.5	4
3"	D	184.15	90.5	9.53	146.05	18.26	4
	E	184.15	90.5	11.11	146.05	17.5	4
	F	203.2	90.5	15.88	165.10	17.5	8
	H	203.2	90.5	22.23	165.10	17.5	8
4"	D	215.9	116	9.53	177.80	18.26	4
	E	215.9	116	12.7	177.80	17.5	8
	F	228.6	116	19.05	190.50	17.5	8
	H	228.6	116	25.40	190.50	17.5	8
5"	D	254.0	144	12.7	215.90	23.02	8
	E	254.0	144	14.28	209.55	17.5	8
	F	279.4	144	19.05	234.95	22.2	8
	H	279.4	144	28.58	234.95	22.2	8

N.B. Size	Table	Dia of Flange	Bore of Slip-on	Thickness of Flange	Pitch Circle Dia (PCD)	Dia of Bolt Holes	No of Bolts
6"	D	279.4	171	12.7	234.95	17.5	8
	E	279.4	171	17.46	234.95	22.2	8
	F	304.8	171	22.23	260.35	22.2	12
	H	304.8	171	28.58	260.35	22.2	12
8"	D	336.55	221.5	12.7	292.10	17.5	8
	E	336.55	221.5	19.05	292.10	22.2	8
	F	368.3	221.5	25.40	323.85	22.2	12
	H	368.3	221.5	31.75	323.85	22.2	12
10"	D	406.4	276.5	12.7	355.60	22.2	8
	E	406.4	276.5	22.23	355.60	22.2	12
	F	431.8	276.5	28.56	381.00	25.4	12
	H	431.8	276.5	34.93	381.00	25.4	12
12"	D	457.2	327	12.7	406.40	22.2	12
	E	457.2	327	25.4	406.40	25.4	12
	F	488.95	327	31.75	438.15	25.4	16
	H	488.95	327	38.10	438.15	25.4	16
14"	D	527.05	359	12.7	469.90	25.4	12
	E	527.05	359	25.4	469.90	25.4	12
	F	552.45	359	34.92	495.30	28.7	16
	H	552.45	359	41.28	495.30	28.7	16
16"	D	577.85	410.5	12.7	520.70	25.4	12
	E	577.85	410.5	31.75	520.70	25.4	12
	F	609.6	410.5	41.27	552.45	28.7	20
	H	609.6	410.5	44.45	552.45	32	20
18"	D	641.35	461.5	12.7	584.20	25.4	12
	E	641.35	461.5	34.92	584.20	25.4	16
	F	673.1	461.5	44.45	609.60	32	20
	H	673.1	461.5	47.63	609.60	32	20
20"	D	704.85	513	12.7	641.35	25.4	16
	E	704.85	513	38.1	641.35	25.4	16
	F	736.6	513	50.80	673.10	32	24
	H	736.6	513	50.80	673.10	32	24
24"	D	825.5	616	12.7	755.65	28.7	16
	E	825.5	616	47.6	755.65	32.3	16
	F	850.9	616	57.15	781.05	32	24
	H	850.9	616	57.15	781.05	35	24

SPECTACLE BLANKS / FIGURE 8 / SPACER & BLANKS (B16.48)



CLASS 150

NPS	Inside Diameter B	Outside Diameter O	Centerline Dimension A	Thickness t	Web Width W
1/2	0.62	1.75	2.38	0.12	1.50
3/4	0.82	2.12	2.75	0.12	1.50
1	1.05	2.50	3.12	0.12	1.50
1 1/4	1.66	2.88	3.50	0.25	1.50
1 1/2	1.90	3.25	3.88	0.25	1.50
2	2.38	4.00	4.75	0.25	2.00
2 1/2	2.88	4.75	5.50	0.25	2.00
3	3.50	5.25	6.00	0.25	2.50
3 1/2	4.00	6.25	7.00	0.38	2.50
4	4.50	6.75	7.50	0.38	2.50
5	5.56	7.62	8.50	0.38	3.00
6	6.62	8.62	9.50	0.50	3.00
8	8.62	10.88	11.75	0.50	3.00
10	10.75	13.25	14.25	0.62	4.00
12	12.75	16.00	17.00	0.75	4.00
14	14.00	17.62	18.75	0.75	4.25
16	16.00	20.12	21.25	0.88	4.25
18	18.00	21.50	22.75	1.00	4.50

CLASS 300

NPS	Inside Diameter B	Outside Diameter O	Centerline Dimension A	Thickness t	Web Width W
1/2	0.62	2.00	2.62	0.25	1.50
3/4	0.82	2.50	3.25	0.25	1.50
1	1.05	2.75	3.50	0.25	1.50
1 1/4	1.66	3.12	3.88	0.25	1.50
1 1/2	1.90	3.62	4.50	0.25	1.50
2	2.38	4.25	5.00	0.38	2.00
2 1/2	2.88	5.00	5.88	0.38	2.00
3	3.50	5.75	6.62	0.38	2.50
3 1/2	4.00	6.38	7.25	0.50	2.50
4	4.50	7.00	7.88	0.50	2.50
5	5.56	8.38	9.25	0.62	3.00
6	6.62	9.75	10.62	0.62	3.00
8	8.62	12.00	13.00	0.88	3.00
10	10.75	14.12	15.25	1.00	4.00
12	12.75	16.50	17.75	1.12	4.00
14	14.00	19.00	20.25	1.25	4.25
16	16.00	21.12	22.50	1.50	4.25
18	18.00	23.38	24.75	1.62	4.50

CLASS 600

NPS	Inside Diameter B	Outside Diameter O	Centerline Dimension A	Thickness t	Web Width W
1/2	0.62	2.00	2.62	0.25	1.50
3/4	0.82	2.50	3.25	0.25	1.50
1	1.05	2.75	3.50	0.25	2.25
1 1/4	1.44	3.12	3.88	0.38	2.25
1 1/2	1.68	3.62	4.50	0.38	2.62
2	2.16	4.25	5.00	0.38	2.25
2 1/2	2.64	5.00	5.88	0.50	2.62
3	3.26	5.75	6.62	0.50	2.62
3 1/2	3.76	6.25	7.25	0.62	3.00
4	4.26	7.50	8.50	0.62	3.00
5	5.30	9.38	10.50	0.75	3.38
6	6.36	10.38	11.50	0.88	3.38
8	8.33	12.50	13.75	1.12	3.75
10	10.42	15.62	17.00	1.38	4.12
12	12.39	17.88	19.25	1.62	4.12
14	13.62	19.25	20.75	1.75	4.50
16	15.62	22.12	23.75	2.00	4.88
18	17.62	24.00	25.75	2.12	5.25

CLASS 900

NPS	Inside Diameter B	Outside Diameter O	Centerline Dimension A	Thickness t	Web Width W
1/2	0.62	2.38	3.25	0.25	1.50
3/4	0.82	2.62	3.50	0.25	1.62
1	1.05	3.00	4.00	0.25	2.25
1 1/4	1.44	3.38	4.38	0.38	2.25
1 1/2	1.68	3.75	4.88	0.38	2.62
2	2.16	5.50	6.50	0.50	2.25
2 1/2	2.64	6.38	7.50	0.50	2.62
3	3.26	6.50	7.50	0.62	2.62
4	4.26	8.00	9.25	0.75	3.00
5	5.30	9.62	11.00	0.88	3.38
6	6.36	11.25	12.50	1.00	3.38
8	8.33	14.00	15.50	1.38	3.75
10	10.42	17.00	18.50	1.62	4.12
12	12.39	19.50	21.00	1.88	4.12
14	13.62	20.38	22.00	2.12	4.50
16	15.62	22.50	24.25	2.38	4.88
18	17.62	25.00	27.00	2.62	5.25

NOTES: 1) All Dimensions are in inches

2) Hole size (where required due to bolt spacing) shall be the same as the flange bolt hole and located such that it will not interfere with bolting between two flanges.

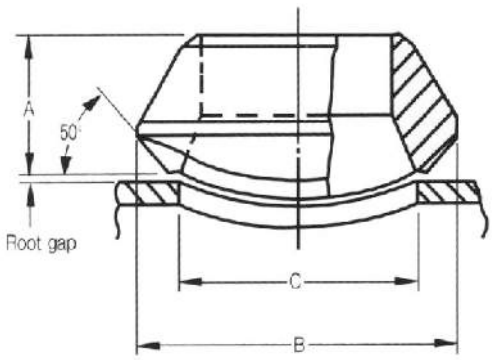
3) Optional raised face to be mentioned by purchaser.

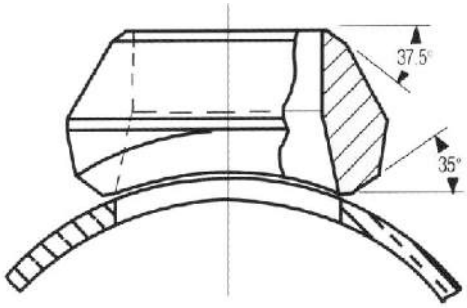
4) The handle or web (tie bar) may be integral or attached to the line blank or spacer.

5) The thickness of the web (or tie bar) dimension, Wt, shall be as determined as it shall be capable of supporting the weight of the blank or spacer in all orientations without permanent deformation of web.

Dimension of other Classes & RTJ Flanges on request

WELDOLETS®WELDING OUTLET STD (SCH40), XS(SCH 80)





MSS SP 97

Outlet Size	A		B		C	
	STD	XS	STD	XS	STD	XS
1/2	19.1	19.1	34.9	34.9	23.8	23.8
3/4	22.2	22.2	44.5	44.5	30.2	30.2
1	27.0	27.0	54.0	54.0	36.5	36.5
1 1/4	31.8	31.8	65.1	65.1	44.5	44.5
11/2	33.3	33.3	73.0	73.0	50.8	50.8
2	38.1	38.1	88.9	88.9	65.1	65.1
2 1/2	41.3	41.3	103.2	103.2	76.2	76.2
3	44.5	44.5	122.2	122.2	93.7	93.7
4	50.8	50.8	152.4	152.4	120.7	120.7
5	57.2	57.2	179.4	179.4	141.3	141.3
6	60.3	77.8	215.9	225.4	169.9	169.9
8	69.9	98.5	263.5	292.1	220.7	220.7
10	77.8	93.7	322.3	323.9	274.7	265.1
12	85.7	103.2	377.8	379.4	325.4	317.5
14	88.9	100.0	409.6	431.8	357.2	350.8
16	93.7	106.4	463.6	466.7	408.0	403.2
18	96.8	111.1	520.7	523.9	458.8	455.6
20	101.6	119.1	571.5	582.6	508.0	509.6
24	115.9	139.7	689.0	708.0	614.4	638.2
26	119.1	146.1	738.2	765.2	666.8	692.2

All Dimensions are in millimeters (mm)

Applicable Run Pipe Sizes are From out-Let to 36"
Standard Weight Fittings are the Same as Schedule 40 Fittings Until 10" and Extra Strong Fittings are the Same as Schedule 80 Until 8"
Pipe Schedule Numbers and Weight Designations are in Accordance With ANSI B36.10
When Ordering Weldolet, Include The Quantity, Size (Run and Out-Let) Description (Weldolets, Schedule Number) And Material

STAINLESS STEEL / CARBON STEEL PIPE DIMENSIONS AS PER ASTM & WEIGHT / KG.PER MTR. (ANSI B36.10-36.19)

Nominal pipe size	OD mm	10	20	30	STD	40	60	XS	80	100	120	140	160	XXS	Nominal pipe size	FIGURES BASED ON AUSTENITIC STEEL 5S	10S	40S	80S
1/2	21,30	2.10 1.00			2,77 1,27	2,77 1,27		3,73 1,62	3,73 1,62				4,78 1,95	7,47 2,55	1/2	1,65 0,82	2,11 1,01	2,77 1,27	3.73 1.62
3/4	26,70	2.11 1.27			2,87 1,69	2,87 1,69		3,91 2,20	3,91 2,20				5,56 2,90	7,82 3,64	3/4	1,65 1,04	2,11 1,28	2,87 1,69	3.91 2.20
1	33,40	2.77 2.09			3,38 2,50	3,38 2,50		4,55 3,24	4,55 3,24				6,35 4,24	9,09 5,45	1	1,65 1,68	2,77 2,13	3,38 2,55	4,55 3,29
1 1/4	42,20	2.77 2.69			3,56 3,39	3,56 3,39		4,85 4,47	4,85 4,47				6,35 5,61	9,70 7,77	1 1/4	1,65 1,95	2,77 2,76	3,56 3,46	4,85 4,56
1 1/2	48,30	2.77 3.11			3,68 4,05	3,68 4,05		5,08 5,41	5,08 5,41				7,14 7,25	10,15 9,56	1 1/2	1,65 2,24	2,77 3,17	3,68 4,13	5,08 5,51
2	60,30	2.77 3.94			3,91 5,44	3,91 5,44		5,54 7,48	5,54 7,48				8,74 11,11	11,07 13,44	2	1,65 2,39	2,77 4,01	3,91 5,54	5,54 7,63
2 1/2	73,00	3,05 5,25			5,16 8,63	5,16 8,63		7,01 11,41	7,01 11,41				9,53 14,92	14,02 20,39	2 1/2	2,11 3,77	3,05 5,36	5,16 8,81	7,01 11,64
3	88,90	3,05 6,46			5,49 11,29	5,49 11,29		7,62 15,27	7,62 15,27				11,13 21,35	15,24 27,68	3	2,11 4,60	3,05 6,59	5,49 11,52	7,62 15,59
3 1/2	101,60	3,05 7,42			5,74 13,57	5,74 13,57		8,08 18,63	8,08 18,63				- -	- -	3 1/2	2,11 5,29	3,05 7,55	5,74 13,84	8,08 19,01
4	114,30	3,05 8,37			6,02 16,07	6,02 16,07		8,56 22,32	8,56 22,32		11,13 28,32		13,49 33,54	17,12 41,03	4	2,11 5,96	3,05 8,52	6,02 16,40	8,56 22,77
5	141,30	3,40 11,61			6,55 21,77	6,55 21,77		9,53 30,97	9,53 30,97		12,70 40,28		15,88 49,11	19,05 57,43	5	2,77 9,67	3,40 11,82	6,55 22,20	9,53 31,59
6	168,30	3,40 13,81			7,11 28,26	7,11 28,26		10,97 42,56	10,97 42,56		14,27 54,20		18,26 67,56	21,95 79,22	6	2,77 11,55	3,40 14,13	7,11 28,83	10,97 43,42
8	219,10	3,76 20,01	6,35 33,31	7,04 36,81	8,18 42,55	8,18 42,55	10.30 53.10	12,70 64,64	12,70 64,64	15,09 75,92	18,26 90,44	20,62 100,92	23,01 111,27	22,23 107,92	8	2,77 15,09	3,76 20,37	8,18 43,39	12,70 65,95
10	273,10	4,19 27,29	6,35 41,77	7,80 51,03	9,27 60,31	9,27 60,31	12.70 81.50	12,70 81,55	15,09 96,01	18,26 114,75	21,44 133,06	25,40 155,15	28,58 172,33	25,40 155,15	10	3,40 23,08	4,19 27,79	9,27 61,52	12,70 83,19
12	323,90	4,57 36,00	6,35 49,73	8,38 65,20	9,53 73,88	10,31 79,73	14.30 109.00	12,70 97,46	17,48 132,08	21,44 159,91	25,40 186,97	28,58 208,14	33,32 238,76	25,40 186,97	12	3,96 31,89	4,57 35,99	9,53 75,32	12,70 99,43
14	355,60	6,35 54,69	7,92 67,90	9,53 81,33	9,53 81,33	11,13 94,55	15.10 126.40	12,70 107,39	19,05 158,10	23,83 194,96	27,79 224,65	31,75 253,56	35,71 281,70		14	3,96 35,06	4,78 41,36		
16	406,40	6,35 62,64	7,92 77,83	9,53 93,27	9,53 93,27	12,70 123,30	16.70 160.00	12,70 123,30	21,44 203,53	26,19 245,56	30,96 286,64	36,53 333,19	40,49 365,35		16	4,19 41,56	4,78 47,74		
18	457,00	6,35 70,57	7,92 87,71	11,13 122,38	9,53 105,16	14,27 155,80	19,00 206.00	12,70 139,15	23,83 254,55	29,36 309,62	34,93 363,56	39,67 408,26	45,24 459,37		18	4,19 46,71	4,78 53,31		
20	508,00	6,35 78,55	9,53 117,15	12,70 155,12	9,53 117,15	15,09 183,42	20.60 248.5	12,70 155,12	26,19 311,17	32,54 381,53	38,10 441,49	44,45 508,11	50,01 564,81		20	4,78 59,32	5,54 68,65		
22	559,00	6,35 86,54	9,53 129,13	12,70 171,09	9,53 129,13	- -	22.20 294.00	12,70 171,09	28,58 373,83	34,93 451,42	41,28 527,02	47,63 600,63	53,98 672,26		22	4,78 65,33	5,54 75,62		
24	610,00	6,35 94,53	9,53 141,12	14,27 209,64	9,53 141,12	17,48 255,41	24.60 355.00	12,70 187,06	30,96 442,08	38,89 547,71	46,02 640,03	52,37 720,15	59,54 808,22		24	5,54 82,58	6,35 94,53		
26	660,00	7,92 127,36	12,70 202,72	- -	9,53 152,87	- -		12,70 202,72							26				
28	711,00	7,92 137,32	12,70 218,69	15,88 271,21	9,53 164,85	- -		12,70 218,69							28				
30	762,00	7,92 147,28	12,70 234,67	15,88 292,18	9,53 176,84	- -		12,70 234,67							30	6,35 118,34	7,92 147,29		
32	813,00	7,92 157,24	12,70 250,64	15,88 312,15	9,53 188,82	17,48 342,91		12,70 250,64							32				
34	864,00	7,92 167,20	12,70 266,61	15,88 332,12	9,53 200,31	17,48 364,90		12,70 266,61							34				
36	914,00	7,92 176,96	12,70 282,27	15,88 351,70	9,53 212,56	19,05 420,42		12,70 282,27							36				
38	965,00				9,53 224,54			12,70 298,24							38				
40	1016,00				9,53 236,53			12,70 314,22							40				
42	1067,00				9,53 248,52			12,70 330,19							42				

WEIGHT OF CARBON STEEL PIPES & TUBES

OD (mm) - W.T. (mm) X W.T. (mm) X 0.02466 = Kg. per Mtr.

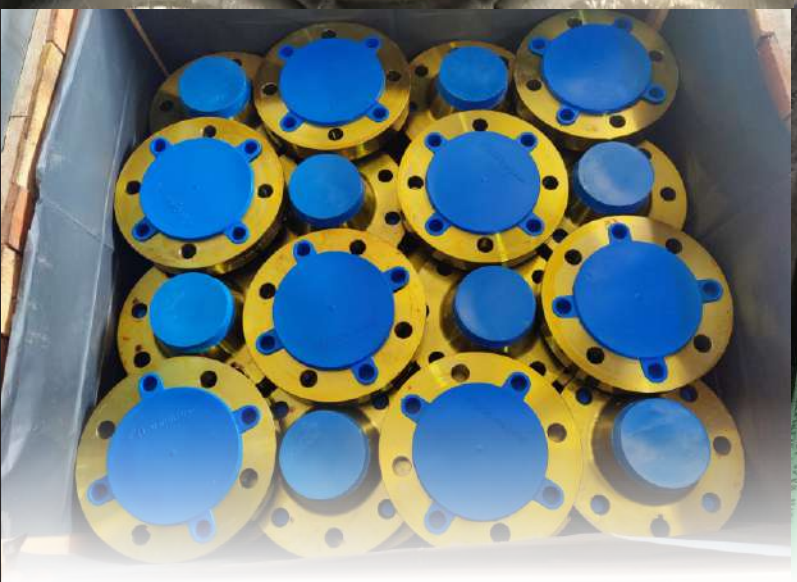
Value for information only

Red - Weight

Black - Thickness





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