NSIC MSME

CERTIFIED CO.

STEELTEK METALS

AN ISO 9001:2015 & PED CERTIFIED CO.

Manufacturer / Stockist of Stainless Steel, Carbon Steel, Alloy Steel and Duplex Steel Flanges, Pipe Fittings, Fasteners and Forged Rings, Blocks

www.steeltekmetals.com

CERTIFICATES


Certificate of Registration

This certificate has been awarded to

Steeltek Metals

Factory - 1290-O, Kalamboli Steel Market, Navi Mumbai, Maharashtra, 410218, India

In recognition of the organization's Quality Management System which complies with

ISO 9001:2015

The scope of activities covered by this certificate is defined below

Manufacture, Import, Export and Supply of Forged Flanges and Pipe Fittings in Stainless Steel, Carbon Steel and Alloy Steel


PED CERTIFIED

AQSR

Certificate of Registration

PRESSURE EQUIPMENT DIRECTIVE

Certificate No. 15433

This is to certify that the Management System of

STEELTEK METALS

Office Address: 23, Dhumal House, 1st Carpenter Street, C.P. Tank, Mumbai - 400004, Maharashtra, India.

Factory Address: Plot No. 1290 - O, Kalamboli Steel Market, Navi Mumbai, Maharashtra, India.

has been found to conform to

European Directive 2014/68/EU

This Certificate is valid for the below scope of services and as mentioned in Annexure

Manufacturer of Carbon Steel, Alloy Steel, Stainless Steel Forging, Pipe Fitting and Flanges.

Date of Registration 23/01/2021

Re-certification Date 22/01/2024

Date of Expiry 22/01/2022

Signed on behalf of AQSR

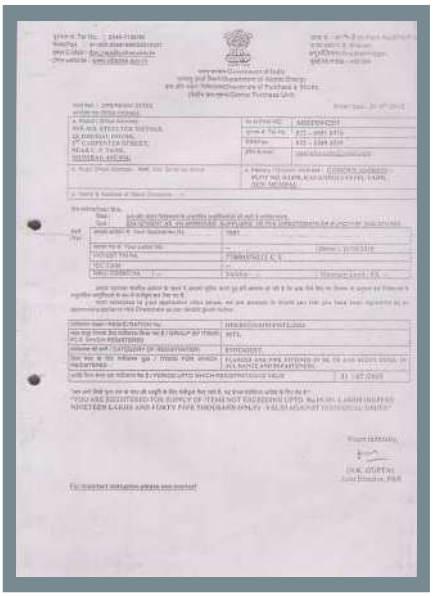
USAC


NSIC

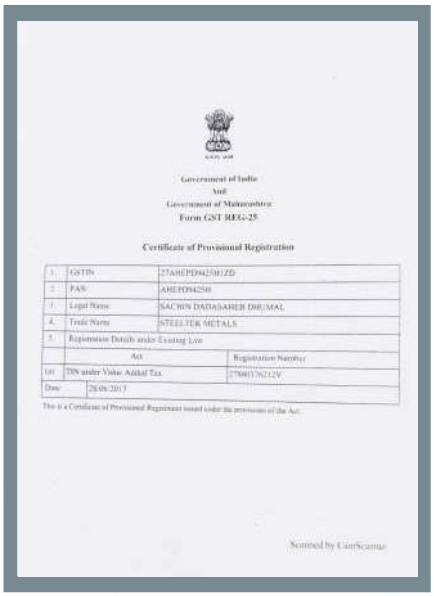
THE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED

(A Government of India Enterprise)

STORE DETAILS CERTIFICATE



Udyog Aadhaar


Government of India

And

Government of Maharashtra

Form GST REG-25

Certificate of Provisional Registration

1.	GSTIN	27AHEPD9425H1ZD
2.	PAN	AHEPD9425H
3.	Legal Name	SACHIN DADASAHEB DHUMAL
4.	Trade Name	STEELTEK METALS
5.	Registration Details under Existing Law	
	Act	Registration Number
101	TIN under Value Added Tax	27AH137621 2V
Date	28/06/2017	

This is a Certificate of Provisional Registration issued under the provisions of the Act.


IR EPS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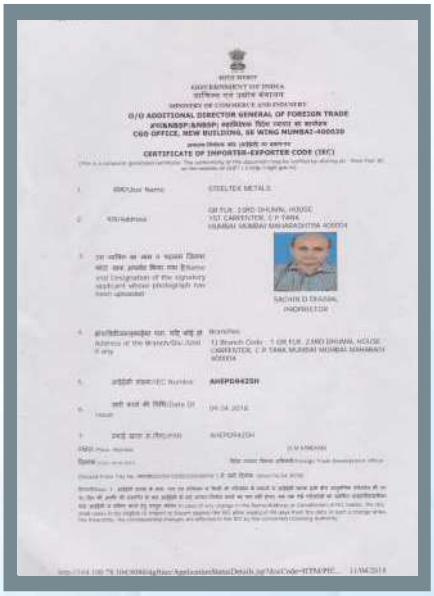
GOVERNMENT OF INDIA

MINISTRY OF COMMERCE AND INDUSTRY

O/O ADDITIONAL DIRECTOR GENERAL OF FOREIGN TRADE

CSO OFFICE, NEW BUILDING, SE WING MUMBAI-400020

CERTIFICATE OF IMPORTER-EXPORTER CODE (IEC)

STEELTEK METALS

AN ISO 9001:2015, PED CERTIFIED CO.

Web.: www.steeltekmetals.com

COMPANY PROFILE

STEELTEK METALS is one of the leading Manufacturers, Stockist & Supplier of all kinds of Stainless Steel, Carbon Steel & Alloy Steel products. We have set up our business empire since last One Decade serving many core industries all through out most satisfactorily.

We always strive to meet the exacting standards of quality for our products, which are as per accepted International standards. We supply better quality and better value for money to our customers using best quality control trained manpower coupled with cost effectiveness that will sustain our future growth .

QUALITY POLICY

"Quality is never an accident; it is always the result of high intention, sincere effort, intelligent direction and skillful execution, its represents the wise choice, of many alternatives. "The Company possesses the most modern plants, equipped with the latest machinery which ensures production of quality products. The manufactured quality products have earned the trust of customers all over the world. We are committed to satisfy our customers through supply of quality products and to ensure continual improvement in this direction.

- Continual improvement in quality to minimize the customer complaints.
- To ensure timely delivery of products to customer.
- Improvement skill of work force
- To minimize the waste percentage

WHO WE ARE

Manufacturer

We are Professional Exporter & Manufacturer of Buttweld Fittings, Socket Weld fittings, Flanges with respective grades, Stainless Steel Pipes, Nickel Alloys Pipes, Titanium Pipes, Inconel Pipes, Hastelloy Pipes, Duplex & Super Duplex Pipes, Alloy 20 and Rods.

Stockist & Exporters

We are one of the largest stockholder & exporters of Carbon & Alloys Steel Pipes, Fasteners, All Types of Valves, Plates, Sheets, with respective grades. We also exports copper & brass products in shape of Pipes, Tubes, Bars and Plates.

For over years, customers have depended on us for the very best in specialty metals, complete processing services, timely delivery and expert service.

OUR VISION

To enlarge our product portfolio and production capacities leveraging our domain knowledge, expertise and resources by fostering global partnerships and alliances to become leading global player with dominant market share.

To be the partner of choice for our customers by providing High Quality Steel Pipes, Steel Tubes & industrial Steel pipes for Important sectors Like Oil & Gas with enhancing services tailored to meet their requirements.

To develop bench mark innovations and technologies to suit the changing requirements of the customers & the industry by continuous investments in updating our manufacturing & human resources.

To provide total customer satisfaction through quality products and services at competitive costs.

Mob.: +91 98696 27377
Email : steeltek.mktg@gmail.com

Main Products

FORGING

Types :

Forged Round, Ring, Flat, Square, Die Forging and as per Customer Requirements of Special Dimension.

Material Grades :

Carbon Steel : ASTM A 105 / A694 F42 / 46 / 52 / 56 / 60 / 65 / 70 / A350 LF3 / A350 LF2, C 22.8 etc.
Alloy Steel : ASTM A 182 F1 / F5 / F9 / F11 / F22 / F91 etc.
Stainless Steel : ASTM A 182 F304/ 304L / 304H / 316 / 316L / 317 / 317L / 321 / 310 / 347 / 904 L etc.
Others : Monel, Nickel, Inconel, Hastalloy, Copper, Brass, Bronze, Titanium, Tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead etc.
Size : 1/2" NB to 24" NB (above 24" as per customers requirement)
Class : 150#, 300#, 400#, 600#, 900#, 1500# & 2500#.

FLANGES

Types :

Weldneck, Slipon, Blind, Socket Weld, Lap Joint, Spectacles, Ring Joint, Orific, Long Weldneck, Deck Flange etc.

Material Grades :

Carbon Steel : ASTM A 105 / A694 F42 / 46 / 52 / 56 / 60 / 65 / 70 / A350 LF3 / A350 LF2, C 22.8 etc.
Alloy Steel : ASTM A 182 F1 / F5 / F9 / F11 / F22 / F91 etc.
Stainless Steel : ASTM A 182 F304/ 304L / 304H / 316 / 316L / 317 / 317L / 321 / 310 / 347 / 904 L etc.
Others : Monel, Nickel, Inconel, Hastalloy, Copper, Brass, Bronze, Titanium, Tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead etc.
Size : 1/2" NB to 24" NB (above 24" as per customers requirement)
Class : 150#, 300#, 400#, 600#, 900#, 1500# & 2500#.

FORGED FITTINGS

Types :

Elbow, Tee, Union, Cross, CoupBushing, Plug, Swage Nipple, Welding Boss, Hexagon, Hexagon Nipple, Barrel Nipple, Welding Nipple, Parraler Nipple, Street Elbow, Hexagon Nut, Hose Nipple, Bend, Adapter, Insert, Weldolet, Elbowlet, Sockolet, Threadolet, Nipolet, Letrolet, etc.

Material Grades :

Carbon Steel : ASTM A 105 / A694 F42 / 46 / 52 / 56 / 60 / 65 / 70 / A350 LF3 / A350 LF2.
Alloy Steel : ASTM A 182 F1 / F5 / F9 / F11 / F22 / F91 etc.
Stainless Steel : ASTM A 182 F304/ 304L / 304H / 316 / 316L / 317 / 317L / 321 / 310 / 347 / 904 L etc.
Others : Monel, Nickel, Inconel, Hastalloy, Copper, Brass, Bronze, Titanium, Tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead etc.
Size : 1/4" NB to 4" NB (Socketweld & Threaded)
Class : 3000#, 6000#, 9000#.

Mob.: +91 98696 27377
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Main Products

Butt Weld Fittings

Types :

Elbow, Equal/Unequal Tee, Concentric/ Eccentric Reducers, Caps, Cross, Return Bend, Long Piggable Bends, 3D/5D/6D/8D upto 22D.
S/J/U/Expansion Bends & Swivels are manufactured according to ANSI B 16.9, B 16.28, MSS SP-43, MSS SP-95 & NACE etc.

Material Grades :

Carbon Steel : A234 WPB, WPC
Alloy Steel : A234 WP1, WP5, WP9, WP12, WP22, WP91
Stainless Steel : A403, 304/L/H, 310/H, 316/L/H, 316Ti, 321/H, 904L
Low Temperature Steel : A420, WPL3, WPL6
High Yield : WPHY42, 52, 60, 65, 70
Copper Alloys : Copper, Cupro Nickel, Brass, Gunmetal etc.
Nickel Alloys : 200, 400, K500, 600, 625, 800, 825
High Alloys : ALLOY 20, ALLOY C, ALLOY C276, ALLOY B2
Duplex & Super Duplex : A815 UNS31803, UNS31254, UNS S32750 & S 32760
Size : 1/4" NB to 24" NB (above 24" NB two half Elbow upto 72" NB)

Fasteners

Types :

Bolts, Nuts, Washers, Anchor Fasteners, Stud Bolts, Eye Bolt, Stud, Threaded Rod, Cotter Pin, Socket Screw, Fine Fasteners & Spares, Foundation Fasteners, etc.

Material Grades :

Carbon Steel : Bare Condition, Galvanized, Phosphetised, Cadium Plated, Hot Deep Galvanized Bloodied, Nickel Chrome Plated etc.
Alloy Steel : 4.6, 5.6, 6.6, 8.8, 10.9 & 12.9 / 'R', 'S', 'T' Conditions.
Stainless Steel : AISI 302, 304, 304L, 316, 316, 316L, 310, 317, 317L, 321, 347, 410, 420, 904L etc.
Non Ferrous Metal : Copper, Brass, Aluminium, Titanium, Nichrome, Al. Bronze, Phosphorous Bronze, etc.

Fabrication

Manufacturing in Industrial and Railway Coach Products as per Drawing.
Trading in Sheet / Plate / Tube / Pipe / Rod, Ferrous & Non Ferrous Metals.

Owing to our technological adeptness, **STEELTEK METALS** are at the forefront of providing best quality Stainless Steel Fabrication Service. We are able to present top rated services for fabrication of stainless steel components and general industries. Our professionals are leveraging the technological advancements installed at our CNC infrastructure. Further, we are providing efficient services for precise cutting, bending and assembling of stainless sheets in varied sizes that can be ordered with assurance of market leading price.

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STEELTEK METALS
AN ISO 9001:2015, PED CERTIFIED CO.
Web.: www.steeltekmetals.com

MONEL 400

A nickel-copper alloy with high strength and excellent corrosion resistance in a range of media including sea water hydrofluoric, chemical and hydrocarbon processing equipment, valves, pumps, shafts, fittings, fasteners and heat exchanger. Standard product forms are round, hexagon, flats, forging stock, pipe, tube, plate, sheet, strip and wire.

Limiting Chemical Composition, %

Ni[a]..... 63.0 min	Mn ..... 2.0 max	Si ..... 0.5 max
Cu 28.0-34.0	C ..... 0.3 max	
Al ..... 2.5 max	S ..... 0.024 max	

UNS NO4400 MIL-T-1368,
BS 3072-3076 (NA 13)
ASTM B Boiler Code Section III, IV, VIII, IX
NACE MR-01-75

Specifications and Designations

MONEL IS REGISTERED TRADEMARK OF SPECIAL METAL LTD.

MIL-T-23520 Werkstoff Nr. 2.4360, 2.4361 QQ-N-281

INCONEL 600

A nickel-chromium alloy with good oxidation resistance at high temperatures and resistance to chloride-ion stress corrosion cracking corrosion by high-purity water and causing corrosion. Used for furnace components, in chemical and food processing, in nuclear engineering and for sparking electrodes. Standard product forms are round, hexagon extruded section, flats, forging stock pipe, tube, plate, sheet, strip and wire.

Limiting Chemical Composition, %

Ni.....72.0 min	C.....0.15 max	S.....0.5 max
Cr 14.0-17.0	Mn .....1.0 min	Cu.....0.5 max
Fe.....6.0-10.0	S.....0.15 max	

Specifications and Designations

DIN 17742, 17750-17754
Werkstoff Nr. 2.4061

INCONEL 601

A nickel-chromium alloy with an addition of aluminum for out standing resistance to oxidation and other forms of high temperature corrosion. It also has high mechanical properties at elevated temperatures. Used for industrial furnaces; petrochemical and other process equipment; such as baskets, muffles and retorts, petrochemical and other process equipment, and gas-turbine components. Standard product forms are round, flats, forging stock, pipe, tube, plate, sheet, strip and wire.

UNS N06600 ASME Boiler Code Section I, III, VII, IX
SAE AMS 5540, 5580,5665, ASTM B 165 B 68

Ni.....58.0-63.0	Fe.....Reminder	Si.....0.50 max
Cr 21.0-25.0	C .....0.10 max	S.....0.015 max
Fe.....1.0-1.7	S.....1.0 max	Cu.....1.0 max

Specifications and Designations

UNS N06601 DIN 17742, 17750-17752
ASME Boiler Code Section VIII Werkstoff 2.4851
SAE Ams 5715, 5870
ASTM B 166-B 165

INCONEL 625

A nickel-chromium-molybdenum alloy with an addition of niobium that acts with molybdenum to stiffen the alloy's matrix and thereby provide high strength without a strengthening heat treatment. The alloy resists a wide range of severely corrosive environments and is especially resistant to pitting and crevice corrosion. Used in chemical processing, aerospace and marine engineering, pollution control equipment and nuclear reactor. Standard product forms are round, flats, forging stock, extruded section, pipe, tube, plate, sheet, strip and wire.

Ni..... 58.0 min	C..... 0.10 max	Ti.....0.40 max
Cr 20.0-23.0	Mn.....0.50 max	P..... 0.015 max
Mo.....8.0-10.0	Si.....0.50 max	Co[b].....1.0 max
Nb[a].....3.15-4.15	S.....0.015 max	
Fe..... 5.0 max	Al.....0.40 max	

* Plus Ta [b]if determined

UNS N06625
(BS 3072, 3074, 3076 Wa21)
ASTM B443, B444, B446
B564, B704, B705, B761
ASME SB-443, SB-44, SB-446, SB-564
Boiler code Sections I, III, VIII, IX

Specifications and Designations

SAE AMS 5561, 5599,5666, 5337
DIN 17744, 17750-17752, 177754
Werkstoff No.2, 4856
NACE Mr0175
AFMOR NC 22.0NB

INCONEL 800

A nickel-iron-chromium alloy with good strength and excellent resistance to oxidation and carburization in high temperature atmospheres, environments. The alloy maintains a stable, austenitic structure during prolonged exposure to high temperature. Used for process piping, heat exchangers, carburizing equipment, heading-element sheathing, and nuclear stream-generator tubing Standard product forms are round, flats, forging stock, pipe, tube, plate, sheet, strip and wire.

Limiting Chemical Composition, %

Ni.....30.0-35.0 min	Mn.....1.50 max	Al.....0.15-0.60
Fe.....39.5 min	S.....0.015 max	Ti.....0.15-0.60
Cr.....19.0-23.0	Si.....1.0 max	
C.....0.10 max	Cu.....0.75 max	

UNS NO. 8800
BS 3072-3076 (NA 15)
ASTM B-163, B-407-B409
ASME SB-163, SB 407-SB-409, SB-564
Boiler Code Section I, III, VII, IX

Specifications and Designations

S.E.W 470
Werkstoff Nr. 1876
B514, B515, B564, B751

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STEELTEK METALS
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Web.: www.steeltekmetals.com

INCONEL 825

A nickel-chromium alloy with additions of molybdenum and copper. It has excellent resistance to both reducing and oxidizing acids to stress corrosion cracking and to localized attack such as pitting and crevice corrosion. The alloy is especially resistant to sulfuric and phosphoric acids. Used for chemical processing, pollution-control equipment, oil and gas well piping, nuclear fuel reprocessing, acid production and pickling equipment, Standard product forms are round, flats, forging stock, pipe, tube, plate,

Limiting Chemical Composition %

Ni.....38.0-46.0	Mn.....1.5-3.0	S.....0.03 max
Fe.....22.0 min	Ti.....0.6-1.2	Si.....0.5 max
Cr.....19.5-23.5	C.....0.05 max	Al.....0.2 max
C.....2.5-3.5	Mn.....1.0 max	

* Plus Ta [b]if determined

UNS N08825
BS 3072, 3074, 3076(NA16)
ASTM B163, B-423, B-425
ASME SB-163, SB-423-SB-425
Boiler Code Section III, VIII, IX

Specifications and Designations

DIN 17744, 17750-17752, 17752
Werkstoff No. 24858
VdeUV 432
AFNOR Nfe32 C200U

MONEL K-500

Corrislon-hardenable nickel-copper alloy that combines on resistance of Monel alloy 400 with greater hardness. It also has low permeability and is to under -1 5PF (-101 T).Us ed for pump shah, and value instruments, doctor blades and scrapers, trim, fasteners, and marine propeller shafts. Product forms are round, hexagon, flats, forging tube, plate, sheet, strip and wire.

Limiting Chemical Composition, %

Ni[a]. .....63.0 min	Ti 0.35-0.85	Mn .....1.5 max
Cu 27.0-33.0	Fe ..... 2.0 max	S .....0.01 max
AL..... 2.30-3.15	C .....0.25 max	Si .....0.5 max

MONEL ALLOY K-500
BS 3072-3076 (NA 13)
ASTM B Boiler Code Section VIII
NACE MR-01-75

Specifications and Designations

MIL-N-24549 DIN 17743,
17752, 17752
WERKSTOFF NR. 2.4375
QQ-N-286

NICKEL ALLOYS

SMO - 254

Avesta Sheffield 254 SMO is an austenitic stainless steel which due to its high molybdenum content possesses very high resistance to pitting and crevice corrosion. The steel grade was developed by Avesta Sheffield for use in halide-containing environments such as seawater. 250 SMO also shows good resistance to uniform corrosion and, especially in acids containing halides, this steel grade is superior to conventional stainless steels.

254 SMO is a registered trademark of Avesta Sheffield AB.

The high levels of molybedenum in particular but also of chromium and nitrogen endow 254 SMO with extremely good resistance to pitting and crevice corrosion. The addition of copper provides improved resistance in certain acids. Further more, due to its relatively high nickel content in combination with the high levels of chromium and molybdenum 254 SMO possesses good resistance to stress corrosion cracking.

Limiting Chemical Composition %

Ni.....17.5-18.50	Mn.....1.0
MO.....6.00-6.50	Cu.....0.50-1.00
Cr.....19.50-20.50	S.....0.01
P 0.03	Si.....0.80
C.....0.02	N.....0.18-0.22

HASTELLOY C - 22

(UNS N06022; W. Nr. 2,4602; NiC21Mo14W) is a fully austenitic advanced temperatures. This alloy provides exceptional resistance to general corrosion, pitting, crevice corrosion, chemical/petrochemical processing, pollution control (flue gas desulfurization), power, marine, pulp and paper processing, and waste disposal industries Used in pollution control, chemical processing pulp and paper production and waste treatment Standard product forms are round, forging stock, tube, pipe, plate, sheet, strip and wire.

Limiting Chemical Compositon, %

Ni.....Remainder	Cr..... 20.0-22.5	Mo 12.5-14.5
Fe.....2.0-3.5	W..... 2.5-3.5	Co.....2.5 max
V.....0.35 max	C..... 0.015 max	
Mn.....0.05 max	S..... 0.02 max	
Si.....0.08 max	P..... 0.02 max	

Specifications and Designations

UNS N06022
ASTM B-574, B-575, B-619
B-622, B-626
DIN 17744, 17750

ASME SB-574, SB-575,SB-619 SB-619
SB-622, SB-626
Section VIII Div.I
Werkstoff Nr. 2.4602

*Hastalloy is an registered trademark of Haynes International

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HASTELLOY C - 276

A nickel-molyoaenum-chromium alloy with an addition of tungsten having excellent corrosion resistance in a wide range of severe environments. The high molybdenum content makes the alloy especially resistant to pitting and crevice corrosion. The low carbon content minimizes carbide precipitation during welding to maintain corrosion resistance in as welded structures. Used in pollution control, chemical processing pulp and paper production and waste treatment Standard product forms are round, forging stock, tube, pipe, plate, sheet, strip and wire.

Limiting Chemical Compositon, %

Ni.....Remainder	Co..... 2.5 max	S.....0.03 max
Mo.....15.0-17.0	Mn..... 1.0 max	Si....0.08 max
Cr.....14.5-16.5	C.....0.01 max	
Fe.....4.0-7.0	V .....0.35 max	
W..... 3.0-4.5	P ..... 0.04 max	

Specifications and Designations

UNS N10276
ASTM B-574, B-575, B-619
B-622, B-626, B-751
NACE MR-01-75
DIN 17744, 17750-17752

ASME SB-574, SB-575, SB-619
SB-622, SB-626, Boiler Code
Section I, III,VIII, IX.
Werkstoff Nr. 2.4819

ALLOY - 904L

904L is a non-stabilised lowcarbon high alloy austenitic stainless steel, The addition of copper to this grade gives greatly improved resistance to strong reducing acids. particularly sulphuric acid. It is also highly resistant to chloride attack-both pitting / crevice corrosion and stress corrosion and stress corrosion cracking.

Limiting Chemical Composition %

Ni.....23.0-28.0
Mo.....4.00-5.00
Cr.....19.0-23.0
P 0.045
C.....0.020 max
Mn.....2.0 max
Cu.....1.0-2.0
S.....0.035 max
Si.....1.00 max
C.....0.020

TITANIUM GRADE 1

Grade 1 has very good weld ability. Being substantially single-phase material, the micro structure of the alpha phase is not affected greatly by thermal treatments or welding temperatures. Therefore, themechanical properties of a correctly welded joint are equal to, or exceed those of the parent metal and show good ductility.

TITANIUM GRADE 2

Grade 2 has very good weld ability. Being substantially single phase material, the micro structure of the alpha phase is not affected greatly by thermal treatments or welding temperatures. Therefore, the mechanical properties of a correctly welded joint are equal to, or exceed those of the parent metal and show good ductility.

Compressor blades, discs and rings for jet engines, aircraft components, pressure vessels, rocket engine cases, offshore pressure vessels.

TITANIUM GRADE 5

Since the two-phase micro ctructure of alpha-beta titanium alloys responds to thermal treatment, the temperatures encountered during the welding cycle can affect the material being welded.

CUPRO - NICKEL (90 /10)

Widely used in condensers, coolers and heat exchangers, where corrosion resistance and erosion is paramount, yet maintaining a high conductivity rate. To be used preferably in marine conditions, forms a protective film which is multi layered in flowing sea water. Resist marine bifouling cooling water speed 2.5m/s working temperature approx. 250 deg.C

Ni.....10
Fe.....1
Mn.....
Cn.....102
Mn.....2.0 max

CUPRO - NICKEL (70 /30)

Improved corrosion resistance and almost insensitive to stress corrosion, this alloy will give superior result in high velocity polluted water including sea water. A reduced thermal conductivity level but will retain at moderately increases temperatures

Ni..... 29 - 32
Fe..... 0.5 - 1.5
Mn..... 0.4 - 1
Cu..... Remaining

Material Specification For Forged Fittings & Flanges

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	
STAINLESS STEEL														
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	-	
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	-	
A 182 Gr. F304H	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 185 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	-	-
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	-	-
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	11.0-15.00	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	17.0-2.0	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	0.030 Max	0.40 Max	0.12 Max	485	250	22	30	187	Cb% = 0.40 Max, Va% = 0.08 Max
LOW TEMPERATURE CARBON STEEL														
A 350 Gr. LF 1	0.030 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	0.030 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 = 10.1°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	0.30-0.80	0.040	0.040	0.10-0.60	0.50-0.81	-	0.44-0.65	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	0.05 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	0.50-1.00	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	0.50-1.00	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	Cb% = 0.06-0.10, N%=0.03-0.07, Va %=0.18-0.25
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	-

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Material Specification For Seamless/Welded Butt-Welding Pipe-Fittings

SPECIFICATION (ASTM-2002)	CHEMICAL 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	
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	2.00 Max	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%= 0.40Max, 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%= 0.40Max, Va%= 0.08 Max, Cb%= 0.02 max
LOW TEMPERATURE CARBON STEEL														
A 234 Gr. WPL6	0.030 Max	0.50-1.35	0.035	0.040	0.15-0.40	0.030 Max	0.12 Max	0.40 Max	415-655	240	30	16.5	197	Cu%= 0.40Max, Va%= 0.08 Max, Cb%= 0.02 max Impact Test = 45°C, J = 17.3-13.6
A 234 Gr. WPL3	0.020 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	0.15-0.15	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% 0.03-0.7 Al%=0.04 Max

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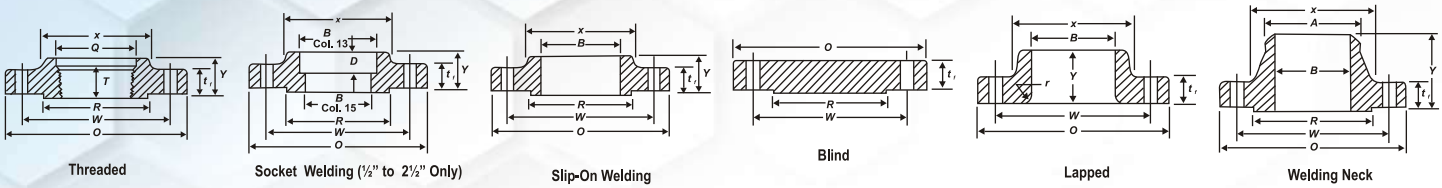

DIMENSIONS OF CLASS 150 FLANGES B16.5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
				Drilling						Lenght Thru Hub			Bore				
Nominal Pipe Size NPS	Outside Diameter of Flange o	Thickness of Flange, Min., t_f	Thickness Lap Joint Min., t_f	Diameter of Bolt Circle W	Diameter of Bolt Holes	Number of Bolts	Diameter of Hub, X	Hub Diameter Begin-ning of Chamfer Welding Neck A	Threaded/ Slip-On/ Socket Welding, Y	Lapped, Y	Welding Neck, Y	Threaded/ Lenght Threaded Min, T	Slip-On/ Socket Welding, Min. B	Lapped Min., B	Welding Neck/ Socket Welding B [Note (2)]	Depth of Socket, D	Diameter of RF R
1/2	90	9.6	11.6	60.3	15.9	4	30	21.3	14	16	46	16	22.2	22.9	15.8		34.9
3/4	100	11.2	13.2	69.9	15.9	4	38	26.7	14	16	51	16	27.7	28.2	20.9	11	42.9
1	110	12.7	14.7	79.4	15.9	4	49	33.4	16	17	54	17	34.5	34.9	26.6	13	50.8
1 1/4	115	14.3	16.3	88.9	15.9	4	59	42.2	19	21	56	21	43.2	43.7	35.1	14	63.5
1 1/2	125	15.9	17.9	98.4	15.9	4	65	48.3	21	22	60	22	49.5	50.0	40.9	16	73.0
2	150	17.5	19.5	120.7	19.1	4	78	60.3	24	25	62	25	61.9	62.5	52.5	17	92.1
2 1/2	180	20.7	22.7	139.7	19.1	4	90	73.0	27	29	68	29	74.6	75.4	62.7	19	104.8
3	190	22.3	24.3	152.4	19.1	4	108	88.9	29	30	68	30	90.7	91.4	77.9	21	127.0
3 ½	215	22.3	24.3	177.8	19.1	8	122	101.6	30	32	70	32	103.4	104.1	90.1	....	139.7
4	230	22.3	24.3	190.5	19.1	8	135	114.3	32	33	75	33	116.1	116.8	102.3	....	157.2
5	255	22.3	24.3	215.9	22.3	8	164	141.3	35	36	87	36	143.8	144.4	128.2	....	185.7
6	280	23.9	25.9	241.3	22.3	8	192	168.3	38	40	87	40	170.7	171.4	154.1	....	215.9
8	345	27.0	29.0	298.5	22.3	8	246	219.1	43	44	100	44	221.5	222.2	202.7	....	269.9
10	405	28.6	30.6	362.0	25.4	12	305	273.0	48	49	100	49	276.2	277.4	254.6	....	323.8
12	485	30.2	32.2	431.8	25.4	12	365	323.8	54	56	113	56	327.0	328.2	304.8	....	381.0
14	535	33.4	35.4	476.3	28.6	12	400	355.6	56	79	125	57	359.2	360.2	To be Specified by Purchaser	....	412.8
16	595	35.0	37.0	539.8	28.6	16	457	406.4	62	87	125	64	410.5	411.2		....	469.9
18	635	38.1	40.1	577.9	31.8	16	505	457.0	67	97	138	68	461.8	462.3		....	533.4
20	700	41.3	43.3	635.0	31.8	20	559	508.0	71	103	143	73	513.1	514.4		....	584.2
24	815	46.1	48.1	749.3	34.9	20	664	609.6	83	111.1	151	83	615.9	615.9		....	692.2

DIMENSIONS OF CLASS 300 FLANGES B16.5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
				Drilling					Lenght Thru Hub			Bore					
Nominal Pipe Size NPS	Outside Diameter of Flange o	Thickness of Flange, Min., t,	Thickness Lap Joint Min., t,	Diameter of Bolt Circle W	Diameter of Bolt Holes	Number of Bolts	Diameter of Hub, X	Hub Diameter Begin-ning of Chamfer Welding Neck A	Threaded/ Slip-On/ Socket Welding, Y	Lapped, Y	Welding Neck, Y	Threaded/ Lenght Threaded Min, T	Slip-On/ Socket Welding, Min. B	Lapped Min., B	Welding Neck/ Socket Welding B [Note (2)]	Depth of Socket, D	Diameter of RF R
1/2	95	12.7	14.7	66.7	15.9	4	38	21.3	21	22	51	16	22.2	22.9	15.8	10	34.9
3/4	115	14.3	16.3	82.6	19.1	4	48	26.7	24	25	56	16	27.7	28.2	20.9	11	42.9
1	125	15.9	17.9	88.9	19.1	4	54	33.4	25	27	60	18	34.5	34.9	26.6	13	50.8
1 1/4	135	17.5	19.5	98.4	19.1	4	64	42.2	25	27	64	21	43.2	43.7	35.1	14	63.5
1 1/2	155	19.1	21.1	114.3	22.2	4	70	48.3	29	30	67	23	49.5	50.0	40.9	16	73.0
2	165	20.7	22.7	127.0	19.0	8	84	60.3	32	33	68	29	61.9	62.5	52.5	17	92.1
2 1/2	190	23.9	25.9	149.2	22.3	8	100	73.0	37	38	75	32	74.6	75.4	62.7	19	104.8
3	210	27.0	29.0	168.3	22.3	8	117	88.9	41	43	78	32	90.7	91.4	77.9	21	127.0
3 1/2	230	28.6	30.6	184.2	22.3	8	133	101.6	43	44	79	37	103.4	104.1	90.1	....	139.7
4	255	30.2	32.2	200.0	22.3	8	146	114.3	46	48	84	37	116.1	116.8	102.3	....	157.2
5	280	33.4	35.4	235.0	22.3	8	178	141.3	49	51	97	43	143.8	144.4	128.2	....	185.7
6	320	35.0	37.0	269.9	22.3	12	206	168.3	51	52	97	47	170.7	171.4	154.1	....	215.9
8	380	39.7	41.7	330.2	25.4	12	260	219.1	60	62	110	51	221.5	222.2	202.7	....	269.9
10	445	46.1	48.1	387.4	28.6	16	321	273.0	65	95	116	56	276.2	277.4	254.6	....	323.8
12	520	49.3	51.3	450.8	31.8	16	375	323.8	71	102	129	61	327.0	328.2	304.8	....	381.0
14	585	52.4	54.4	514.4	31.8	20	425	355.6	75	111	141	64	359.2	360.2		....	412.8
16	650	55.6	57.6	571.5	35.0	20	483	406.4	81	121	144	69	410.5	411.2		....	469.9
18	710	58.8	60.8	628.6	35.0	24	533	457.0	87	130	157	70	461.8	462.3		....	533.4
20	775	62.0	64.0	685.8	35.0	24	587	508.0	94	140	160	74	513.1	514.4		....	584.2
24	915	68.3	70.3	812.8	41.3	24	702	610.0	105	152	167	83	616.0	616.0		....	692.2

NOTE : (1) Heght of RF 2 mm

(2) Dimension in Column 16 Correspond to the inside diameters of pipe as given in ASME B36.10M for Standard Wall pipe, Thickness of Standard Wall is the same as Schedule 40 in sizes NPS 10 and smaller. These bore sizes are furnished unless otherwise specified by the purchaser.

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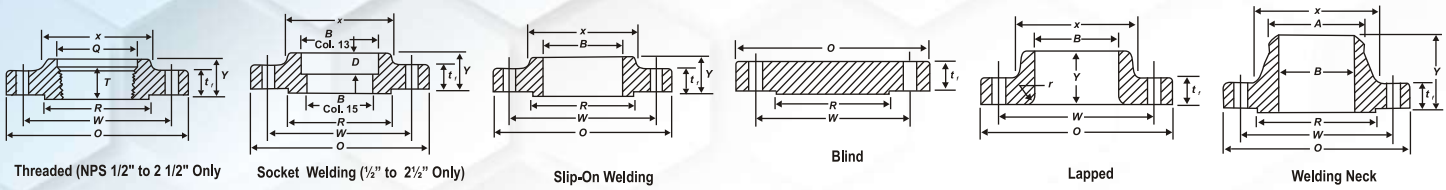

DIMENSIONS OF CLASS 600 FLANGES B16.5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Drilling			Hub Diameter Beginning of Chamfer Welding Neck, *A*	Length Thru Hub				Bore			
Nominal Pipe Size NPS	Outside Diameter of Flange *O*	Thickness of Flange, Min., *t*	Diameter of Hub, *X*	Diameter of Bolt Circle, *W*	Diameter of Bolt Holes, in.	Number of Bolts		Threadded/ Slip-On, *Y*	Lapped, *Y*	Welding Neck, *Y*	Threaded/ Length Threaded Flange Min., *T*	Slip-On Min., *B*	Lapped Min., *B*	Welding Neck, *B*	Dia of R/F
½	95	14.3	38	66.7	15.9	4	21.3	22	22	52	16	22.2	22.9		34.9
3/4	115	15.9	48	82.6	19.1	4	26.7	25	25	57	16	27.7	28.2		42.9
1	125	17.5	54	88.9	19.1	4	33.4	27	27	62	18	34.5	34.9		50.8
1 1/4	135	20.7	64	98.4	19.1	4	42.2	29	29	67	21	43.2	43.7		63.5
1 ½	155	22.3	70	114.3	22.3	4	48.3	32	32	70	23	49.5	50.0		73.0
2	165	25.4	84	127.0	19.1	8	60.3	37	37	73	29	61.9	62.5		92.7
2 ½	190	28.6	100	149.2	22.3	8	73.0	41	41	79	32	74.6	75.4		104.8
3	210	31.8	117	168.3	22.3	8	88.9	46	46	83	35	90.7	91.4		127.0
4	275	38.1	152	215.9	25.4	8	114.3	54	54	86	40	116.1	116.8		157.2
5	330	44.5	189	266.7	28.6	8	141.3	60	60	114	48	143.8	144.4	To be Specified by Purchaser	185.7
6	355	47.7	222	292.1	28.6	12	168.3	67	67	117	51	170.7	171.4		215.9
8	420	55.6	273	349.2	31.8	12	219.1	76	76	133	58	221.5	222.2		269.9
10	510	63.5	343	431.8	35.0	16	273.0	86	111	152	66	276.2	277.4		323.8
12	560	66.7	400	489.0	35.0	20	323.8	92	117	156	70	327.0	328.2		381.0
14	605	69.9	432	527.0	38.1	20	355.6	94	127	165	74	359.2	360.2		412.8
16	685	76.2	495	603.2	41.3	20	406.4	106	140	178	78	410.5	411.2		469.9
18	745	82.6	546	654.0	44.5	20	457.0	117	152	184	80	461.8	462.3		533.4
20	815	88.9	610	723.9	44.5	24	508.0	127	165	190	83	513.1	514.4		584.2
24	940	101.6	718	838.2	50.8	24	610.0	140	184	203	93	616.0	616.0		692.2

Note : (1) Height of RF 7mm

DIMENSIONS OF CLASS 900 FLANGES B16.5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Drilling			Hub Diameter Beginning of Chamfer Welding Neck, *A*	Length Thru Hub				Bore			
Nominal Pipe Size NPS	Outside Diameter of Flange *O*	Thickness of Flange, Min., *t*	Diameter of Hub, *X*	Diameter of Bolt Circle, *W*	Diameter of Bolt Holes, in.	Number of Bolts		Threadded/ Slip-On, *Y*	Lapped, *Y*	Welding Neck, *Y*	Threaded/ Length Threaded Flange Min., *T*	Slip-On Min., *B*	Lapped Min., *B*	Welding Neck, *B*	Dia of R/F
½	120	22.3	38	82.6	22.3	4	21.3	32	32	60	23	22.2	22.9		34.9
3/4	130	25.4	44	88.9	22.3	4	26.7	35	35	70	26	27.7	38.2		42.9
1	150	28.6	52	101.6	25.4	4	33.4	41	41	73	29	34.5	34.9		50.8
1 1/4	160	28.6	64	111.1	25.4	4	42.2	41	41	73	31	43.2	43.7		63.5
1 ½	180	31.8	70	123.8	28.6	4	48.3	44	44	83	32	49.5	50.0		73.0
2	215	38.1	105	165.1	25.4	8	60.3	57	57	102	39	61.9	62.5		92.1
2 ½	245	41.3	124	190.5	28.6	8	73.0	64	64	105	48	74.6	75.4		104.8
3	240	38.1	127	190.5	25.4	8	88.9	54	54	102	42	90.7	91.4		127.0
4	290	44.5	159	235.0	31.8	8	114.3	70	70	114	48	116.1	116.8		157.2
5	350	50.8	190	279.4	35.0	8	141.3	79	79	127	54	143.8	144.4	To be Specified by Purchaser	185.7
6	380	55.6	235	317.5	31.8	12	168.3	86	86	140	58	170.7	171.4		215.9
8	470	63.5	298	393.7	38.1	12	219.1	102	114	162	64	221.5	222.2		269.9
10	545	69.9	368	469.9	38.1	16	273.0	108	127	184	72	276.2	277.4		323.8
12	610	79.4	419	533.4	38.1	20	323.8	117	143	200	77	327.0	328.2		381.0
14	640	85.8	451	558.8	41.3	20	355.6	130	156	213	83	359.2	360.2		412.8
16	705	88.9	508	616.0	44.5	20	406.4	133	165	216	86	410.5	411.2		469.9
18	785	101.6	565	685.8	50.8	20	457.0	152	190	229	89	461.8	462.3		533.4
20	855	108.0	622	749.3	54.0	20	508.0	159	210	248	93	513.1	514.4		584.2
24	1,040	139.7	749	901.7	66.7	20	610.0	203	267	292	102	616.0	616.0		692.2

Note : (1) Height of RF 7mm

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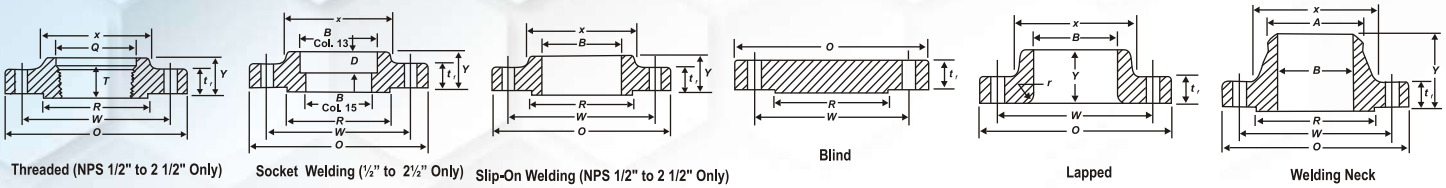

DIMENSIONS OF CLASS 1500 FLANGES B16.5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Drilling			Hub Diameter Begin-ning of Chamfer Welding Neck, *A*	Length Thru Hub			Threaded/ Length Threaded Flange Min., *T*	Slip-On Min., *B*	Bore	Welding Neck/ Socket Welding *B*	Dia. of R/F
Nominal Pipe Size NPS	Outside Diameter of Flange *O*	Thickness of Flange, Min., *t*	Diameter of Hub, *X*	Diameter of Bolt Circle, *W*	Diameter of Bolt Holes, in.	Number of Bolts		Threadded/ Slip-On, *Y*	Lapped, *Y*	Welding Neck, *Y*			Lapped Min., *B*		
½	120	22.3	38	82.6	22.3	4	21.3	32	32	60	23	22.2	22.9		34.9
3/4	130	25.4	44	88.9	22.3	4	26.7	35	35	70	26	27.7	28.2		42.9
1	150	28.6	52	101.6	25.4	4	33.4	41	41	73	29	34.5	34.9		50.8
1 1/4	160	28.6	64	111.1	25.4	4	42.2	41	41	73	31	43.2	43.7		63.5
1 ½	180	31.8	70	123.8	28.6	4	48.3	44	44	83	32	49.5	50.0		73.0
2	215	38.1	105	165.1	25.4	8	60.3	57	57	102	39	61.9	62.5		92.1
2 ½	245	41.3	124	190.5	28.6	8	73.0	64	64	105	48	74.6	75.4		104.8
3	265	47.7	133	203.2	31.8	8	88.9	....	73	117	....	....	91.4		127.0
4	310	54.0	162	241.3	35.0	8	114.3	....	90	124	....	....	116.8	To be Specified by Purchaser	157.2
5	375	73.1	197	292.1	41.3	8	141.3	....	105	156	....	....	144.4		185.7
6	395	82.6	229	317.5	38.1	12	168.3	....	119	171	....	....	171.4		215.9
8	485	92.1	292	393.7	44.5	12	219.1	....	143	213	....	....	222.2		269.9
10	585	108.0	368	482.6	50.8	12	273.0	....	178	254	....	....	277.4		323.8
12	675	123.9	451	571.5	54.0	16	323.8	....	219	283	....	....	328.2		381.0
14	750	133.4	495	635.0	60.4	16	355.6	....	241	298	....	....	360.2		412.8
16	825	146.1	552	704.8	66.7	16	406.4	....	260	311	....	....	411.2		469.9
18	915	162.0	597	774.7	73.0	16	457.0	....	276	327	....	....	462.3		533.4
20	985	177.8	641	831.8	79.4	16	508.0	....	292	356	....	....	514.4		584.2
24	1170	203.2	762	990.6	92.1	16	610.0	....	330	406	....	....	616.0		692.2

Note : (1) Height of RF 7mm

DIMENSIONS OF CLASS 2500 FLANGES B16.5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
				Drilling			Hub Diameter Begin-ning of Chamfer Welding Neck, *A*	Length Thru Hub			Threaded/ Length Threaded Flange Min., *T*	Bore		Dia. of R/F
Nominal Pipe Size NPS	Outside Diameter of Flange *O*	Thickness of Flange, Min., *t*	Diameter of Hub, *X*	Diameter of Bolt Circle, *W*	Diameter of Bolt Holes, in.	Number of Bolts		Threadded/ Slip-On, *Y*	Lapped, *Y*	Welding Neck, *Y*		Lapped Min., *B*	Welding Neck/ Socket Welding *B*	
½	135	30.2	43	88.9	22.3	4	21.3	40	40	73	29	22.9		34.9
3/4	140	31.8	51	95.2	22.3	4	26.7	43	43	79	32	28.2		42.9
1	160	35.0	57	108.0	25.4	4	33.4	48	48	89	35	34.9		50.8
1 1/4	185	38.1	73	130.2	28.6	4	42.2	52	52	95	39	43.7		63.5
1 ½	205	44.5	79	146.0	31.8	4	48.3	60	60	111	45	50		73.0
2	235	50.9	95	171.4	28.6	8	60.3	70	70	127	51	62.5	To be Specified by Purchaser	92.1
2 ½	265	57.2	114	196.8	31.8	8	73.0	79	79	127	58	75.4		104.8
3	305	66.7	133	228.6	35.0	8	88.9	....	92	168	....	91.4		127.0
4	355	76.2	165	273.0	41.3	8	114.3	....	106	190	....	116.8		157.2
5	420	92.1	203	323.8	47.7	8	141.3	....	130	229	....	144.4		185.7
6	485	108.0	235	368.3	54.0	8	168.3	....	152	273	....	171.4		215.9
8	550	127.0	305	438.2	54.0	12	219.1	....	178	318	....	222.2		269.9
10	675	165.1	375	539.8	66.7	12	273.0	....	229	419	....	277.4		323.8
12	760	184.2	441	619.1	73.0	12	323.8	....	254	464	....	328.2		381.0

Note : (1) Height of RF 7mm

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WELDING NECK FLANGE BORE

NPS (NB)	O.D. (MM)	Sch. 10	Sch. 20	Sch. 30	Sch. Std	Sch. 40	Sch. XS	Sch. 80	Sch. 120	Sch. 160	Sch. XXS
15	21.33	17.1	-	-	15.7	15.7	13.8	13.8	-	11.7	6.4
20	26.67	22.5	-	-	20.8	20.8	18.8	18.8	-	15.5	11.0
25	33.40	27.9	-	-	26.6	26.64	24.3	24.3	-	20.7	15.2
32	42.16	36.6	-	-	35.0	35.0	32.4	32.4	-	29.4	22.7
40	48.26	42.7	-	-	40.8	40.8	38.1	38.1	-	34.2	27.9
50	60.31	54.8	-	-	52.3	52.3	49.2	49.2	-	42.8	38.1
65	73.02	66.9	-	-	62.4	62.4	59.0	59.0	-	53.9	44.9
80	88.90	82.8	-	-	77.9	77.9	73.6	73.6	-	66.6	58.4
100	114.30	108.2	-	-	102.2	102.2	97.1	97.1	92.0	87.3	80.0
125	141.30	134.5	-	-	128.1	128.1	122.2	122.2	115.9	109.5	103.2
150	168.27	161.5	-	-	154.0	154.0	146.3	146.3	139.7	131.7	124.3
200	219.07	211.6	206.2	204.9	202.7	202.7	193.6	193.6	182.5	173.0	174.6
250	273.05	264.7	260.3	257.4	254.5	254.5	247.6	242.8	230.1	215.9	222.2
300	323.85	314.7	311.1	307.0	304.8	303.2	298.4	288.8	273.0	257.2	273.0
350	355.60	342.9	337.8	336.5	336.5	333.3	330.2	317.5	300.0	284.1	-
400	406.40	393.7	390.3	387.3	387.3	381.0	381.0	363.5	344.5	325.4	-
450	457.20	444.3	441.1	434.9	438.1	428.6	431.8	409.5	387.3	366.7	-
500	508.00	495.3	488.9	482.6	488.9	477.8	482.6	455.6	431.8	407.9	-
600	609.60	596.9	590.5	581.0	590.5	574.6	584.2	547.6	517.5	490.5	-

DIMENSIONAL TOLERANCES OF FORGED FLANGES ANSI B 16.5

Welding Neck

Threaded, Slipon, Lapjoint, Socker Welding & Blind

Outside Diameter	O.D. is 600 or smaller O.D. over 600	± 1.6 ± 3.1	Outside Diamter	O.D. is 50 or smaller O.D. over 600	± 1.6 ± 3.1
Inside Diameter (bore)	250 and smaller 12 through 450 500 and larger	± 0.7 ± 1.6 ± 3.1 - 1.6	Inside Diameter slip lap joint :	threaded : to standard gauge limits socket-welding : 250 and larger 300 and larger	(bore) + 0.7 - 0.0 + 1.6 - 0.0
Diameter of contact face	1.6 raise face 6.3 raised face: tongue & grooved male & female	± 0.7 ± 0.4	Diameter of counter bore	threaded 250 and smaller 300 and larger	 + 0.7 - 0.0 + 1.6 - 0.0
Diameter of hub at base	When E is 600 or smaller When E is over 600	± 1.6 ± 3.1	Outside diameter hub	300 and smaller 350 and larger	+ 2.3 - 1.6 ± 3.1
Diameter hub at point of welding	125 and smallller 150 and larger	+0.7 ± 0.7 + 4.0 ± 0.0	Diameter of contact face	1.6 raised face 6.3 raised : tongue & grooved male & female	± 0.7 ± 0.4
Thickness	450 and smaller 500 and larger	+ 3.1 ± 0.0 + 4.7 ± 0.0	Thickness	450 and smaller 500 and larger	+ 3.1 - 0.0 + 4.7 - 0.0
Length through hub	250 and smaller 300 and larger	± 1.6 ± 3.1	Length through hub	250 and smaller 300 and larger	± 1.6 ± 3.1
	bolt circle	± 1.6		bolt circle	± 1.6
Drilling	bolt hole spacing essentriecity with respect to bore	± 0.7 0.7 max	Drilling	bolt hole spacing essentriecity with respect to bore	± 0.7 0.7 max

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DIMENSION OF PIPE FLANGES AS PER TABLE BS - 10

Table D

Table D: For Working Steam Pressure upto 50 lbs per sq. inch

Nominal Pipe size	O.D of Pipe	Dia. of Flange	Dia. of Bolt Circle	No. of Bolt	Dia. of Bolt	Thickness
1/2"	21.3	95.3	66.7	4	12.7	4.8
3/4"	26.7	101.6	73.0	4	12.7	4.8
1"	33.4	114.3	82.6	4	12.7	4.8
1 1/4"	42.2	120.7	87.6	4	12.7	6.4
1 1/2"	48.3	133.4	98.4	4	12.7	6.4
2"	60.3	152.4	114.3	4	15.9	7.9
2 1/2"	73.0	165.1	127.0	4	15.9	7.9
3"	88.9	184.2	146.1	4	15.9	9.5
3 1/2"	101.6	203.2	165.1	4	15.9	9.5
4"	114.3	215.9	177.8	4	15.9	9.5
5"	141.3	254.0	209.6	8	15.9	12.7
6"	168.3	279.4	228.6	8	15.9	12.7
7"	190.5	304.8	260.4	8	15.9	12.7
8"	219.1	336.6	292.1	8	15.9	12.7
9"	244.5	368.3	323.9	8	15.9	15.9
10"	273.0	406.4	355.6	8	19.1	15.9
12"	323.9	457.2	406.4	12	19.1	15.9
14"	355.6	527.1	469.9	12	22.2	19.1
16"	406.4	577.9	520.7	12	22.2	19.1
18"	457.2	641.4	584.2	12	22.2	22.2
20"	508.0	704.9	641.4	16	22.5	25.4
24"	609.6	825.5	755.7	16	25.4	28.6

Table E

Table E : For Working Steam Pressure 50 lbs upto 100 lbs per sq. inch

Nominal Pipe Size	Dia. of Flange	Dia. of Bolt Circle	No. of Bolt	Dia. of Bolt	Thickness
1/2"	95.3	66.7	4	12.7	6.4
3/4"	101.6	73.0	4	12.7	6.4
1"	114.3	82.6	4	12.7	7.1
1 1/4"	120.7	87.3	4	12.7	7.9
1 1/2"	133.4	98.4	4	12.7	8.7
2"	152.4	114.3	4	15.9	9.5
2 1/2"	165.1	127.0	4	15.9	10.3
3"	184.2	146.1	4	15.9	11.1
3 1/2"	203.2	165.1	8	15.9	11.9
4"	215.9	177.8	8	15.9	12.7
5"	254.0	209.6	8	15.9	14.3
6"	279.4	228.6	8	19.1	17.5
7"	304.8	260.4	8	19.1	19.1
8"	336.6	292.1	8	19.1	19.1
9"	368.3	323.9	12	19.1	20.6
10"	406.4	355.6	12	19.1	22.2
12"	457.2	406.4	12	22.2	25.4
14"	527.2	469.9	12	22.2	25.4
16"	577.9	520.7	12	22.2	25.4
18"	641.4	584.2	16	22.2	28.6
20"	704.9	647.4	16	22.2	31.8
24"	825.5	755.7	16	25.4	38.1

Table F

Table F: For Working Steam Pressure above 100 lbs and upto 150 lbs per sq. inch

Nominal Pipe Size	O.D. of Pipe	Dia of Flange	Dia of Bolt Circle	No. of Bolt	Dia. of Bolt	Thickness
1/2"	21.3	95.3	66.7	4	12.7	9.5
3/4"	26.7	101.6	73.0	4	12.7	9.5
1"	33.4	120.7	87.3	4	15.9	9.5
1 1/4"	42.2	133.4	98.4	4	15.9	12.7
1 1/2"	48.3	139.7	104.8	4	15.9	12.7
2"	60.3	165.1	127.0	4	15.9	15.9
2 1/2"	73.0	184.2	146.1	8	15.9	15.9
3"	88.9	203.2	165.1	8	15.9	15.9
3 1/2"	101.6	215.9	177.8	8	15.9	19.1
4"	114.3	228.6	190.5	8	15.9	19.1
5"	141.3	279.4	235.0	8	19.1	22.2
6"	168.3	304.8	260.4	12	19.1	22.2
7"	190.3	336.6	292.1	12	19.1	22.2
8"	219.1	368.3	323.9	12	19.1	25.4
9"	244.5	406.4	355.6	12	22.2	25.4
10"	273.0	431.8	381.0	12	22.2	25.4
12"	323.0	489.0	438.2	16	22.2	28.6
14"	355.6	552.5	495.3	16	25.4	31.8
16"	406.4	609.6	552.5	20	25.4	31.8
18"	457.2	673.1	609.6	20	28.6	34.9
20"	508.0	736.6	673.1	24	28.6	38.1
24"	609.6	850.9	781.1	24	31.8	41.3

Table H

Table H : For Working Steam Pressure above 150 lbs and upto 250 lbs per sq. inch

Nominal Pipe size	Dia of Flange	Dia. of Bolt Circle	No. of Bolt	Dia. of Bolt	Thickness
1/2"	114.3	82.6	4	15.9	12.7
3/4"	114.3	82.6	4	15.9	12.7
1"	120.78	87.3	4	15.9	14.3
1 1/4"	133.4	98.4	4	15.9	17.5
1 1/2"	139.7	104.8	4	15.9	17.5
2"	165.1	127.0	4	15.9	19.1
2 1/2"	184.2	146.1	8	15.9	19.1
3"	203.2	165.1	8	15.9	22.2
3 1/2"	215.9	177.8	8	15.9	22.2
4"	228.6	190.5	8	15.9	25.4
5"	279.4	235.0	8	19.1	28.6
6"	304.8	260.4	12	19.1	28.6
7"	336.6	292.1	12	19.1	31.8
8"	368.3	323.9	12	19.1	31.8
9"	406.4	355.6	12	22.2	34.9
10"	431.8	381.0	12	22.2	34.9
12"	489.0	438.2	16	22.2	38.1
14"	552.5	495.3	16	25.4	41.3
16"	609.6	552.5	20	25.4	44.5
18"	673.1	609.6	20	28.6	47.6
20"	736.6	673.1	24	28.6	50.8
24"	850.9	781.1	25	31.8	57.2

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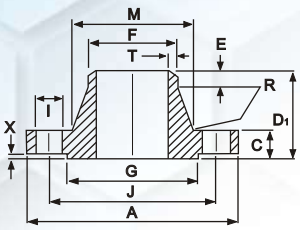
DIN2501 PN10 FLANGES

Dimensions in mm

Nom. Size	Flange						Raised Face		Boss	Drilling			Bolting	Neck					Bore Diameter
NB	A	C	C1	C2	D	D1	G	X	N	No.	I	J		M	F	E	R	T	B
10	90	14	14	14	20	35	40	2	30	4	14	60	M12	28	17.2	6	3	1.8	18.0
15	95	14	14	14	20	35	45	2	35	4	14	65	M12	32	21.3	6	3	2.0	22.0
20	105	16	16	16	24	38	58	2	45	4	14	75	M12	39	26.9	6	4	2.3	27.5
25	115	16	16	16	24	38	68	2	52	4	14	85	M12	46	33.4	6	4	2.6	34.5
32	140	16	18	16	26	40	78	2	60	4	18	100	M16	56	42.2	6	5	2.6	43.0
40	150	16	18	16	26	42	88	3	70	4	18	110	M16	64	48.3	7	5	2.6	49.5
50	165	18	20	18	28	45	102	3	84	4	18	125	M16	74	60.3	8	5	2.9	61.5
65	185	18	20	18	32	45	122	3	104	4/8	18	145	M16	92	73.0	10	6	2.9	74.0
80	200	20	20	20	34	50	138	3	118	8	18	160	M16	110	88.9	10	6	3.2	90.5
100	220	20	22	20	40	52	162	3	140	8	18	180	M16	130	114.3	12	6	3.6	116.0
125*	250	22	22	22	44	55	188	3	168	8	18	210	M16	158	141.3	12	6	4.0	142.5
150	285	22	24	22	44	55	212	3	195	8	22	240	M20	184	168.3	12	8	4.5	170.5
200	340	24	24	24	44	62	268	3	246	8	22	295	M20	234	219.1	16	8	5.6	221.5
250	395	26	26	26	46	68	320	3	298	12	22	350	M20	288	273.0	16	10	6.3	276.5
300	445	26	28	26	46	68	370	4	350	12	22	400	M20	342	323.9	16	10	7.1	327.6
350	505	26	28	26	53	68	430	4	400	16	22	460	M20	390	355.6	16	10	7.1	359.0
400	565	26	32	26	57	72	482	4	459	16	26	515	M24	440	406.4	16	10	7.1	411.0
450	615	28	36	28	63	72	532	4	502	20	26	565	M24	488	457.0	16	12	7.1	462.0
500	670	28	38	28	67	75	585	4	559	20	26	620	M24	540	508.0	16	12	7.1	513.5
600	780	28	42	34	75	80	685	5	658	20	30	725	M27	640	610.0	18	12	7.1	616.5
700	895	30	-	38	-	80	800	5	-	24	30	840	M27	746	711.0	18	12	8.0	-
800	1015	32	-	42	-	90	905	5	-	24	33	950	M30	848	813.0	18	12	8.0	-
900	1115	34	-	46	-	95	1005	5	-	28	33	1050	M30	948	914.0	20	12	10.0	-
1000	1230	34	-	52	-	95	1110	5	-	28	36	1160	M33	1050	1016.0	20	12	10.0	-
1200	1455	38	-	60	-	115	1330	5		32	39	1380	M36	1256	1220.0	25	12	11.0	-
1400	1675	42	-	-	-	120	1535	5	-	36	42	1590	M39	1460	1420.0	25	12	12.0	-
1600	1915	46	-	-	-	130	1760	5	-	40	48	1820	M45	1666	1620.0	25	12	14.0	-
1800	2115	50	-	-	-	140	1960	5	-	44	48	2020	M45	1866	1820.0	30	15	15.0	-
2000	2325	54	-	-	-	150	2170	5	-	48	48	2230	M45	2070	2020.0	30	15	16.0	-
2200	2550	58	-	-	-	160	2370	6	-	52	56	2440	M52	2275	2220.0	35	15	-	-
2400	2760	62	-	-	-	170	2570	6	-	56	56	2650	M52	2478	2420.0	35	15	-	-
2600	2960	65	-	-	-	180	2780	6	-	60	56	2850	M52	2680	2620.0	40	18	-	-
2800	3180	70	-	-	-	190	3000	6	-	64	56	3070	M52	2882	2820.0	40	18	-	-
3000	3405	75	-	-	-	200	3210	6	-	68	62	3290	M56	3085	3020.0	40	18	-	-

* Care should be taken with these sizes as the pipe o.d. does not relate to normal stainless steel dimensions.
1. Weldnecks (Code 111) are bored to suit schedule of pipework used.
2. Code 105 flanges are supplied flat faced unless otherwise requested by the purchaser.
3. For information sizes NB 10 to DN150 use PN16 dimensions.

CODE 111



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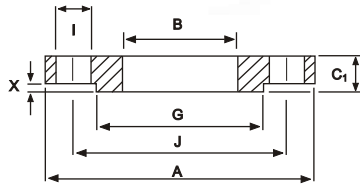

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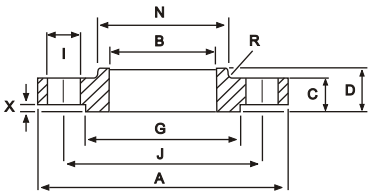

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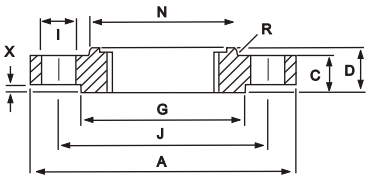

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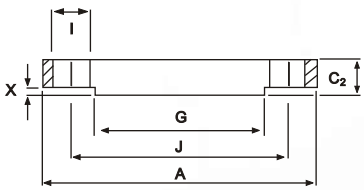

DIN2501 PN16 FLANGES

Dimensions in mm

Nom. Size	Flange						Raised Face		Boss	Drilling			Bolting	Neck					Bore Diameter
NB	A	C	C1	C2	D	D1	G	X	N	No.	I	J		M	F	E	R	T	B
10	90	14	14	14	20	35	40	2	30	4	14	60	M12	28	17.2	6	3	1.8	18.0
15	95	14	14	14	20	35	45	2	35	4	14	65	M12	32	21.3	6	3	2.0	22.0
20	105	16	16	16	24	38	58	2	45	4	14	75	M12	39	26.9	6	4	2.3	27.5
25	115	16	16	16	24	38	68	2	52	4	14	85	M12	46	33.4	6	4	2.6	34.5
32	140	16	18	16	26	40	78	2	60	4	18	100	M16	56	42.2	6	5	2.6	43.0
40	150	16	18	16	26	42	88	3	70	4	18	110	M16	64	48.3	7	5	2.6	49.5
50	165	18	20	18	28	45	102	3	84	4	18	125	M16	74	60.3	8	5	2.9	61.5
65	185	18	20	18	32	45	122	3	104	4/8	18	145	M16	92	73.0	10	6	2.9	74.0
80	200	20	20	20	34	50	138	3	118	8	18	160	M16	110	88.9	10	6	3.2	90.5
100	220	20	22	20	40	52	162	3	140	8	18	180	M16	130	114.3	12	6	3.6	116.0
125*	250	22	22	22	44	55	188	3	168	8	18	210	M16	158	141.3	12	6	4.0	142.5
150	285	22	24	22	44	55	212	3	195	8	22	240	M20	184	168.3	12	8	4.5	170.5
200	340	24	26	24	44	62	268	3	246	12	22	295	M20	234	219.1	16	8	5.6	221.5
250	405	26	29	26	46	70	320	3	298	12	26	355	M24	288	273.0	16	10	6.3	276.5
300	460	28	32	28	46	78	378	4	350	12	26	410	M24	342	323.9	16	10	7.1	327.6
350	520	30	35	30	57	82	438	4	400	16	26	470	M24	390	355.6	16	10	8.0	359.0
400	580	32	38	32	63	85	490	4	456	16	30	525	M27	444	406.4	16	10	8.0	411.0
450	640	34	42	36	63	87	550	4	502	20	30	585	M27	490	457.0	16	12	8.0	462.0
500	715	34	46	36	73	90	610	4	559	20	33	650	M30	546	508.0	16	12	8.0	513.5
600	840	36	52	44	83	95	725	5	658	20	36	770	M33	650	610.0	18	12	8.8	616.5
700	910	36	60	48	83	100	795	5	760	24	36	840	M33	750	711.0	18	12	8.6	-
800	1025	38	68	52	90	105	900	5	864	24	39	950	M36	848	813.0	20	12	10.0	-
900	1125	40	76	58	94	110	1000	5	968	28	39	1050	M39	948	914.0	20	12	10.0	-
1000	1255	42	84	64	100	120	1115	5	1072	28	42	1170	M39	1056	1016.0	22	12	10.0	-
1200	1485	48	98	76	-	130	1330	5	-	32	48	1390	M45	1260	1220.0	30	12	12.5	-
1400	1685	52	-	-	-	145	1530	5	-	36	48	1590	M45	1465	1420.0	30	12	14.2	-
1600	1930	58	-	-	-	160	1750	5	-	40	56	1820	M52	1668	1620.0	35	12	16.0	-
1800	2130	62	-	-	-	170	1950	5	-	44	56	2020	M52	1870	1820.0	35	15	17.5	-
2000	2435	66	-	-	-	190	2150	5	-	48	62	2230	M56	2072	2020.0	40	15	20.0	-

* Care should be taken with these sizes as the pipe o.d. does not relate to normal stainless steel dimensions.
1. Weldnecks (Code 111) are bored to suit schedule of pipework used.
2. Code 105 flanges are supplied flat faced unless otherwise requested by the purchaser.

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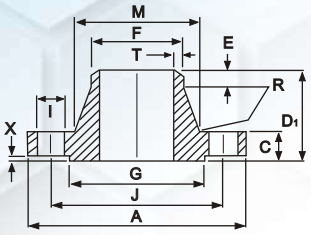
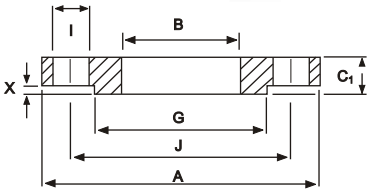
DIN2501 PN25 FLANGES

Dimensions in mm

CODE 111



CODE 101



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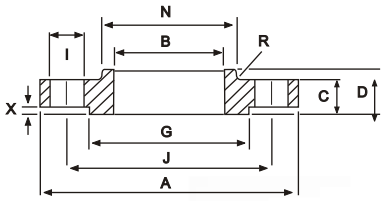


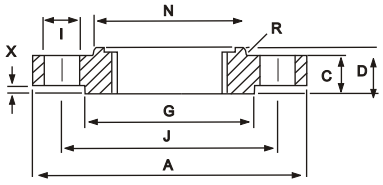
Nom. Size	Flange						Raised Face		Boss	Drilling			Bolting	Neck					Bore Diameter
NB	A	C	C1	C2	D	D1	G	X	N	No.	I	J		M	F	E	R	T	B
10	90	16	14	16	22	35	40	2	30	4	14	60	M12	28	17.2	6	3	1.8	18.0
15	95	16	14	16	22	38	45	2	35	4	14	65	M12	32	21.3	6	3	2.0	22.0
20	105	18	16	18	26	40	58	2	45	4	14	75	M12	40	26.9	6	4	2.3	27.5
25	115	18	16	18	28	40	68	2	52	4	14	85	M12	46	33.4	6	4	2.6	34.5
32	140	18	18	18	30	42	78	2	60	4	18	100	M16	56	42.2	7	5	2.6	43.0
40	150	18	18	18	32	45	88	3	70	4	18	110	M16	64	48.3	7	5	2.9	49.5
50	165	20	20	20	34	48	102	3	84	4	18	125	M16	74	60.3	8	5	2.9	61.5
65	185	22	22	22	38	52	122	3	104	8	18	145	M16	92	73.0	10	6	2.9	74.0
80	200	24	24	24	40	58	138	3	118	8	18	160	M16	110	88.9	12	6	3.2	90.5
100	235	24	26	24	44	65	162	3	145	8	22	190	M20	134	114.3	12	6	3.6	116.0
125*	270	26	28	26	48	68	188	3	170	8	26	220	M24	162	141.3	12	6	4.0	142.5
150	300	28	30	28	52	75	218	3	200	8	26	250	M24	190	168.3	12	8	4.5	170.5
200	360	30	32	30	52	80	278	3	256	12	26	310	M24	244	219.1	16	8	6.3	221.5
250	425	32	35	32	60	88	335	3	310	12	30	370	M27	296	273.0	18	10	7.1	276.5
300	485	34	38	34	67	92	395	4	364	16	30	430	M27	350	323.9	18	10	8.0	327.5
350	555	38	42	38	72	100	450	4	418	16	33	490	M30	398	355.6	20	10	8.0	359.5
400	620	40	46	40	78	110	505	4	472	16	36	550	M33	452	406.4	20	10	8.8	411.0
450	670	42	50	44	84	110	555	4	520	20	36	600	M33	500	457.0	20	12	8.8	462.0
500	730	44	56	45	90	125	615	4	580	20	36	660	M33	558	508.0	20	12	10.0	513.5
600	845	46	68	54	100	125	720	5	684	20	39	770	M36	660	610.0	20	12	11.0	616.5
700	960	46	-	-	-	125	820	5	-	24	42	875	M39	760	711.0	20	12	12.5	-
800	1085	50	-	-	-	135	930	5	-	24	48	990	M45	864	813.0	22	12	14.2	-
900	1185	54	-	-	-	145	1030	5	-	28	48	1090	M45	968	914.0	24	12	16.0	-
1000	1320	58	-	-	-	155	1140	5	-	28	56	1210	M52	1070	1016.0	24	12	17.5	-
1200	1530	-	-	-	-	-	1350	5	-	32	56	1420	M52	-	1220.0	-	12	12.5	-
1400	1755	-	-	-	-	-	1560	5	-	36	62	1640	M56	-	1420.0	-	12	14.2	-
1600	1975	-	-	-	-	-	1780	5	-	40	62	1860	M56	-	1620.0	-	15	16.0	-
1800	2185	-	-	-	-	-	1985	5	-	44	70	2070	M64	-	1820.0	-	15	17.5	-
2000	2425	-	-	-	-	-	2210	5	-	48	70	2300	M64	-	2020.0	-	15	20.0	-

* Care should be taken with these sizes as the pipe o.d. does not relate to normal stainless steel dimensions.
1. Weldnecks (Code 111) are bored to suit schedule of pipework used.
2. Code 105 flanges are supplied flat faced unless otherwise requested by the purchaser.
3. For information sizes NB10 to NB150 use PN40 dimensions.

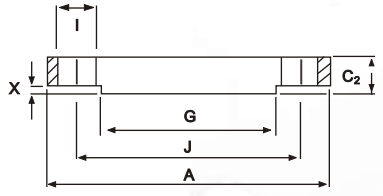
DIN2501 PN40 FLANGES

Dimensions in mm

CODE 113



CODE 105



Nom. Size	Flange						Raised Face		Boss	Drilling			Bolting	Neck					Bore Diameter
NB	A	C	C1	C2	D	D1	G	X	N	No.	I	J		M	F	E	R	T	B
10	90	16	14	16	22	35	40	2	30	4	14	60	M12	28	17.2	6	3	1.8	18.0
15	95	16	14	16	22	38	45	2	35	4	14	65	M12	32	21.3	6	3	2.0	22.0
20	105	18	16	18	26	40	58	2	45	4	14	75	M12	40	26.9	6	4	2.3	27.5
25	115	18	16	18	28	40	68	2	52	4	14	85	M12	46	33.4	6	4	2.6	34.5
32	140	18	18	18	30	42	78	2	60	4	18	100	M16	56	42.2	6	5	2.6	43.5
40	150	18	18	18	32	45	88	3	70	4	18	110	M16	64	48.3	7	5	2.6	49.5
50	165	20	20	20	34	48	102	3	84	4	18	125	M16	74	60.3	8	5	2.9	61.5
65	185	22	22	22	38	52	122	3	104	8	18	145	M16	92	76.1	10	6	2.9	77.5
80	200	24	24	24	40	58	138	3	118	8	18	160	M16	110	88.9	12	6	3.2	90.5
100	235	24	26	24	44	65	162	3	145	8	22	190	M20	134	114.3	12	6	3.6	116.0
125*	270	26	28	26	48	68	188	3	170	8	26	220	M24	162	141.3	12	6	4.0	142.5
150	300	28	30	28	52	75	218	3	200	8	26	250	M24	190	168.3	12	8	4.5	170.5
200	375	34	36	36	52	88	285	3	260	12	30	320	M27	244	219.1	16	8	6.3	221.5
250	450	38	42	38	60	105	345	3	312	12	33	385	M30	306	273.0	18	10	7.1	276.5
300	515	42	48	42	67	115	410	4	380	16	33	450	M30	362	323.9	18	10	8.0	327.5
350	580	46	54	46	72	125	465	4	424	16	36	510	M33	408	355.6	20	10	8.8	359.5
400	660	50	60	50	78	135	535	4	478	16	33	385	M36	462	406.4	20	10	11.0	411.0
450	685	50	66	54	84	135	560	4	522	20	39	610	M36	500	457.0	20	12	12.5	462.0
500	755	52	72	56	90	140	615	4	576	20	42	670	M39	562	508.0	20	12	14.2	513.5
600	890	60	84	70	100	150	735	5	686	20	48	795	M45	666	610.0	20	12	16.0	616.5

* Care should be taken with these sizes as the pipe o.d. does not relate to normal stainless steel dimensions.
1. Weldnecks (Code 111) are bored to suit schedule of pipework used.
2. Code 105 flanges are supplied flat faced unless otherwise requested by the purchaser.

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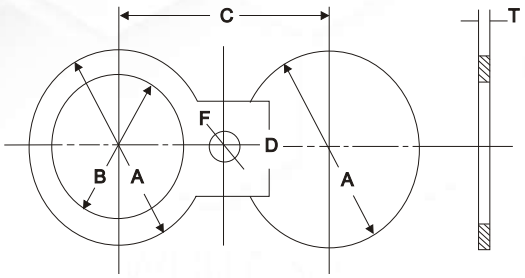
SPECTACLE FLANGES RF & FF, SPACER & BLANKS ASME 16.48
SPECTACLE FLANGES 150CLASS, 300CLASS, 600CLASS, 900CLASS



CLASS 150					
NPS	Inside Diameter B	Outside Diameter O	Centerline Dimension A	Thickness t	Web Width W
½	16	44	60	3	38
3/4	21	54	70	3	38
1	27	64	79	3	38
1 1/4	42	73	89	6	38
1 1/2	48	83	99	6	38
2	60	102	121	6	51
2 ½	73	121	140	6	51
3	89	133	152	6	64
3 ½	102	159	178	10	64
4	114	171	190	10	64
5	141	194	216	10	76
6	168	219	241	13	76
8	219	276	298	13	76
10	273	337	362	16	102
12	324	406	432	19	102
14	356	448	476	19	108
16	406	511	540	22	108
18	457	546	578	25	114
20	508	603	635	28	121
24	610	714	749	32	140

CLASS 300					
NPS	Inside Diameter B	Outside Diameter O	Centerline Dimension A	Thickness t	Web Width W
½	16	51	60	6	38
3/4	21	64	70	6	38
1	27	70	79	6	38
1 1/4	42	79	89	6	38
1 1/2	48	92	99	6	51
2	60	108	121	10	51
2 1/2	73	127	140	10	64
3	89	146	152	10	64
3 1/2	102	162	178	13	64
4	114	178	190	13	64
5	141	213	216	16	76
6	168	248	241	16	76
8	219	305	298	22	89
10	273	359	362	25	102
12	324	419	432	28	102
14	356	483	476	32	121
16	406	537	540	38	124
18	457	594	578	41	114
20	508	651	635	44	121
24	610	772	749	51	140

CLASS 600					
NPS	Inside Diameter B	Outside Diameter O	Centerline Dimension A	Thickness t	Web Width W
½	16	51	67	6	38
3/4	21	64	83	6	38
1	27	70	89	10	57
1 1/4	37	79	99	10	57
1 1/2	43	92	114	10	67
2	55	108	127	10	57
2 1/2	67	127	149	13	67
3	83	146	168	13	67
3 1/2	96	159	184	16	76
4	108	191	216	16	76
5	135	238	267	19	86
6	162	264	292	22	86
8	212	318	349	28	95
10	265	397	432	35	105
12	315	454	489	41	105
14	346	489	527	44	114
16	397	562	603	51	124
18	448	610	654	54	133
20	497	679	724	64	133
24	597	787	838	73	152

CLASS 600					
NPS	Inside Diameter B	Outside Diameter O	Centerline Dimension A	Thickness t	Web Width W
½	16	60	83	6	38
3/4	21	67	89	6	41
1	27	76	102	6	57
1 1/4	37	86	111	10	57
1 1/2	43	95	124	10	67
2	55	140	165	13	57
2 1/2	67	162	190	13	67
3	83	165	190	16	67
4	108	203	235	19	76
5	135	244	279	22	86
6	162	286	318	25	86
8	212	356	394	35	95
10	265	432	470	41	105
12	315	495	533	48	105
14	346	518	559	54	114
16	397	572	616	60	124
18	448	635	686	67	133
20	497	695	749	73	133
24	597	835	902	89	152

Notes:

(1) Thickness (dimension) includes a corrosion allowed allowance of 0.05 inch (1.3 millimeters) for material groups 1.1, 1.7, 1.9, 1, 10, and 1.12, Corrosion Allowance is 0.00 inch for material groups 2.1, 2.2, 2.4 and 2.5

(2) Hole size (where required due to bolt spacing) shall be the same as the Flange bolt hole.

(1) The thickness of the web (or tie bar) dimension Wt, shall be 0.25 inch (6.4 millimeter) minimum, except when r is less than 0.25 inch Wt shall equal t

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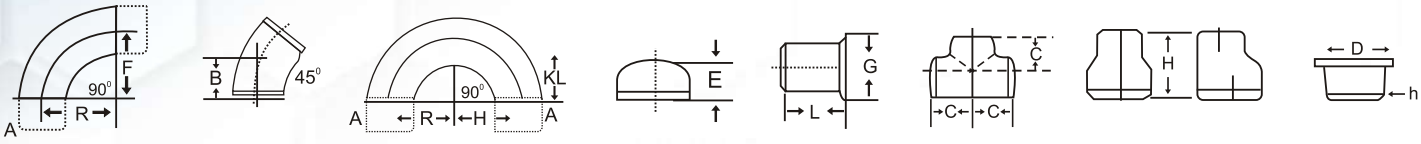
DIMENSIONS IN M.M. BUTT WELDING FITTINGS TO ANSI B16.9

STAINLESS STEEL ASTM A 403 / CARBON STEEL & ALLOY STEEL ASTM A 234

ELBOWS 90° | ELBOWS 45° | 90° RETURN BENDS | CAPS | LAP JOINT STUB ENDS | TEES | CONC. AND ECC. REDUCER | SHORT STUBENDS



NOM. BORE	PIPE O.D.	WALL THICKNESS				RADIUS R				A	B	C	E	G	L		H	D	h
		5S	10S	40S	80S	1D	1.5D	2D	3D						SHORT	LONG			
½	21.3	1.65	2.11	2.77	3.75	12.7	19.05	25.4	38.1	12.7	15.9	25.4	25.4	34.9	50.8	76.2	50.8	42	8
3/4	26.7	1.65	2.11	2.87	3.91	19.05	28.57	38.10	57.15	19.06	11.1	28.6	25.4	42.8	50.8	76.2	50.8	52	8
1”	33.40	1.65	2.77	3.38	4.55	25.4	38.1	50.8	76.2	25.4	22.2	38.1	38.1	50.8	50.8	101.6	50.8	62	10
1 1/4”	42.2	1.65	2.77	3.56	4.85	31.75	47.6	63.5	95.25	31.75	25.0	47.6	28.1	63.5	50.8	101.6	50.8	72	12
1 ½”	48.3	1.65	2.77	3.68	5.08	38.1	57.15	76.2	114.3	38.10	28.6	57.2	38.1	73.0	50.8	101.6	63.5	82	12
2”	60.30	1.65	2.77	3.91	5.54	50.8	76.2	101.6	152.4	50.8	34.0	63.5	38.1	92.0	63.5	152.4	76.2	98	16
2 ½”	73.00	2.11	3.05	5.16	7.01	63.5	95.25	127.0	190.5	63.5	63.5	38.1	92.0	63.5	63.5	152.4	88.9	118	16
3”	88.90	2.11	3.05	5.49	7.62	76.2	114.30	152.4	228.6	76.2	50.8	85.7	50.8	127.0	63.5	152.4	88.9	130	18
3 ½”	101.60	2.11	3.05	5.74	8.08	88.9	133.35	177.8	266.7	88.9	57.2	95.3	63.5	139.7	76.2	152.4	101.6	140	18
4”	114.30	2.11	3.05	6.02	8.56	101.6	152.4	203.2	304.8	101.6	63.5	104.8	83.5	157.2	76.2	152.4	101.6	168	20
5”	141.30	2.77	3.40	6.55	9.53	127.0	190.5	254.0	381.0	127.0	82.6	123.8	76.2	185.7	76.2	203.2	127.0	188	25
6”	168.30	2.77	3.40	7.11	10.97	152.4	228.6	304.8	457.2	152.4	95.3	158.7	88.9	203.2	139.7	212	25	215	25
8”	219.1	2.77	3.76	8.18	12.07	203.2	304.8	406.4	609.6	203.2	127.0	190.5	101.6	270.0	101.6	203.2	152.4	268	30
10”	273.1	3.40	4.19	9.27	15.08	254.0	381.0	508.0	762.0	254.0	158.7	215.9	127.0	324.0	127.0	254.0	177.8	330	35
12”	323.9	3.96	4.57	9.52	17.45	304.0	457.2	609.6	914.4	304.0	190.5	254.0	152.4	381.0	152.4	254.0	203.2	400	40
14”	355.60	3.96	4.78	11.13	19.05	355.6	533.4	711.2	1066.8	355.6	222.2	280.0	165.1	412.8	152.4	305.0	330.2	-	-
16”	406.40	4.19	4.78	12.7	21.41	406.4	609.6	812.8	1219.2	496.2	254.0	304.8	177.8	470.0	152.4	305.0	355.6	-	-
18”	457.20	4.19	4.78	14.27	23.8	457.2	685.8	914.4	1371.6	457.1	285.7	343.0	203.2	533.4	152.4	152.40	305.0	-	-
20”	508.00	4.76	5.54	15.09	26.19	508.0	762.0	1016.0	1524.0	508.0	317.6	381.0	228.6	584.2	152.4	305.0	508.0	-	-
24”	609.60	5.54	6.35	17.48	30.94	609.6	914.4	1219.0	1829.0	-	381.0	431.8	266.7	698.5	152.4	305.0	508.0	-	-

STANDARDS : All dimensions are in mm and confirm to ABSI B 16.9 and MSS SP-43 Where applicable - Dimensional tolerance are in accordance. with ANSI B 16.9 M.S.S. SP 43 Where applicable.
RADIUS : Radius of Short Radius Elbow is 1 times nominal pipe diameter, Radius of Long Radius Elbows is 1 ½ time nominal pipe diameter

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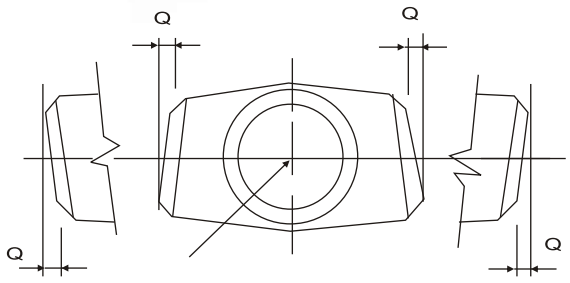
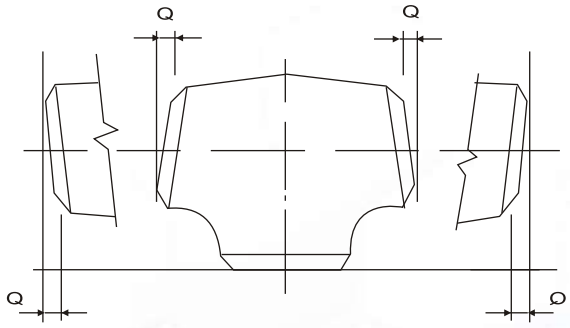
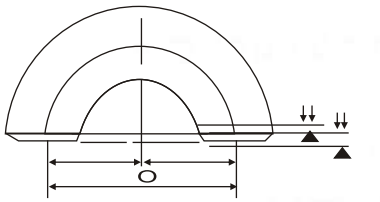
DIMENSION TOLERANCE ANSI B 16.9 / B16.8 / MSS SP - 43

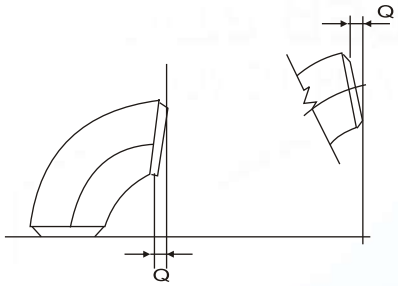
ALL FITTINGS						90°/60°/45° /30° ELBOWS & TEES		REDUCERS		180° RETURNS				CAPS		ANGULARITY TOLERANCE			
Nominal Pipe Size Inch/mm	Outside Diameter at Level		Inside Dia meter	Wall Thickness at End		Centre to End		Overall Length Dimensions		Centre to End		Back to Face Dimensions		Alignment of End Dimensions		Overall length		Nominal Pipe Size	Off Angle 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	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 SP43		B16.9	MSS SP43	B16.9
1/2" - 2 1/2" 15 - 65	±1.6 - 0.8		±0.8	Not Less Than 87.5% Nominal Thk.		FROM 1/2" TO 18" 15 TO 600	FROM 3/4"	FROM 1/2"-24" 15 - 600	FROM 1/2" - 8" 15 - 200							±3	±3.17	1/2" - 4" 15 -100	±1		±2
3" - 3 1/2" 80 - 90	±1.6	±0.80																5" - 8" 125 - 200	±2		±4
4" 100						±2	∓1.60		∓1.60		∓6.35	±6.0	±6.4					10" - 12" 250 - 300	±3		±5
5" - 6" 125 -150	+2.4 -1.6	+1.60														±7	±6.35	14" -16" 350 - 400	±3	16"- 24" 400 - 600 1.6	±7
8" 200		-0.80																18" - 24" 450 - 600	±3		±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	±4	26" - 36" 650 - 900 2.4	±10
20" - 24" 500 - 600	+6.4 -4.8	3.17 0.79																32" - 42" 800 - 1050	±5		±13
26" - 30" 650 - 750	+6.4 -4.8	±4.8	±4.8			±3		FROM 26" - 48" 650NB - 701200 NB ±5								±10		44" - 48" 1100 - 1200	±5	38" - 48" 950 - 1200 3.2	±20
32" - 48" 800 - 1200	+6.4 -4.8					±5												42" - 48" 1050 - 1200	±5		±20

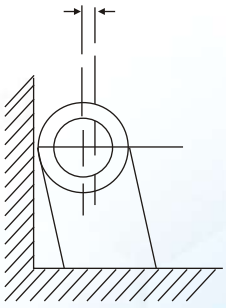


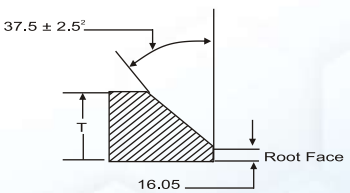
This End Flush Against Square

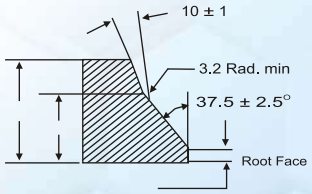












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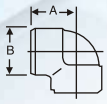
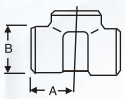
FORGED SCREWED & SOCKET WELD

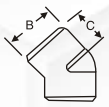
90° ELBOWS



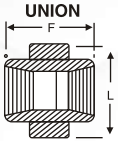
TEE



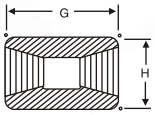
45° ELBOW



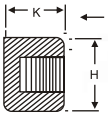
UNION



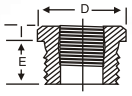
COUPLING



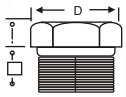
PIPE CAP



BUSHING



HEX HEAD PLUG

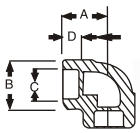


HALF COUPLING =G/2

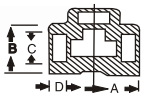
DIMENSION IN MM OF FORGED SCREWED FITTINGS TO ANSI B-16.11 THREADED TO ASA B 2.1

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
1 1/4"	42.2	51	62	35	67	57	44	44.5	21	70	7	14	72	60	75	43	67	64	46
1 1'2"	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
2 1/2"	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

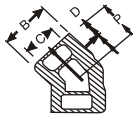
90° ELBOWS



TEE



45° ELBOW



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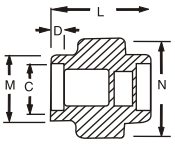
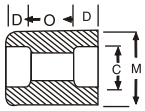
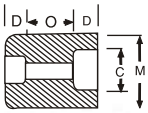


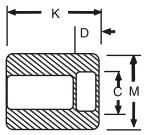
COUPLING



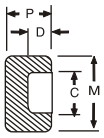
REDUCER



HALF COUPLING



CAP



SOCKET WELD FITTING TO ANSI B-16.11

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
1 1/4"	42.2	42	56	40	29	70	55	70	30	13	42.6	13	9	17	47	59	58	41	100
1 1'2"	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	
2 1/2"	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	

DIMENSIONS AND OTHERS SPECIFICATIONS AS PER CUSTOMERS REQUIREMENTS ARE AVAILABLE ON REQUEST

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FASTENERS

FASTENERS DETAILS

We hold expertise in offering Fasteners, such as nuts, bolts washers to anchor, Fastener, stud bolts, Threaded Rod, our clients. These are manufactured utilizing high grade, such as Stainless Steel, Carbon Steel, Duplex Steel, Monel, Inconel, Hastelloy, Titanium and nickel alloy, which assure their high tensile strength and corrosion resistance. Our range applications in numerous industries and is sizes ranging from M10 TO M100, Length up to 5 meters as per the client's requirements.

Salient Features :

Severe vibration under impulse pressure
Static pressure
High tolerance
Dimensional preciseness
Corrosion resistance
Perfect installation & application
Long service life
Study construction
Fast performance

Stainless Steel : AISI 304, 304L, 316, 316L, 310, 317, 317L, 321, 347, 410, 420, 904L , ASTM A193 Gr. 6, 6F, 8, 8A, 8C, 8CA, 8M, 8MA, 8T, 8TA, 8F, 8FA, 8S, 8SA, etc.
Alloy Steel : 4.6, 5.6, 6.6, 8.8, 10.9 & 12.9/'R', 'S', 'T' Conditions.
Carbon Steel : Bare Condition, Galvanized, Phosphetised, Cadium Plated, Hot Deep Galvanized, Bloodied, Nickel Chrome Plated etc.
Non Ferrous Metal : Copper, Brass, Aluminium, Titanium, Nichrome, Al. Bronze Phosphorous Bronze etc.
Types : Bolts, Nuts, Washers, Anchor Fasteners, Stud Bolts, Eye Bolt, Stud, Threaded Rod, Cotter Pin, Socket, Fine Fasteners & Spares, Foundation Fasteners etc.

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Bolt

Hex Head Bolt, Allen Cap, Socket Head, Allen CSK, J-Bolt, U Bolt, Eye Bolt, Linear Bolt, Foundation Bolt, Special Bolt

Diameter Range	:	M8 to M80 diameter and length up to 500 mm long
Thread Type	:	MM, BSW, BSF, UNC, UNF and Fine Pitch
Material	:	Stainless Steel {6 (410), 6F (416), 8, 8A (304), 8C, 8CA (347), 8M, 8MA (316), 8T, 8TA (321), 8F, 8FA (303), 8S, 8SA (Nitronic 60) etc.} Alloy Steel (4.6, 5.6, 8.8, 10.9, 12.9, B7) and Nickel Alloys as per customer requirements
Standard	:	ISO, DIN, IS, BS, ANSI, ASTM

Nuts

Hex Nut, Lock Nut, Nylock Nut, Breakaway Nut, Dom Nut, Long Nut

Diameter Range	:	M8 to M80 diameter
Thread Type	:	MM, BSW, BSF, UNC, UNF and Fine Pitch
Material	:	Stainless Steel {6 (410), 6F (416), 8, 8A (304), 8C, 8CA (347), 8M, 8MA (316), 8T, 8TA (321), 8F, 8FA (303), 8S, 8SA (Nitronic 60) etc.} Alloy Steel (Gr 4, 8, 10, 12, 2H) and Nickel Alloys as per customer requirements
Standard	:	ISO, DIN, IS, BS, ANSI, ASTM

Threaded Bars/Stud

Stud, Full Thread Stud, Half Thread, Double ended Stud, Special Stud

Diameter Range	:	M8 to M80 diameter
Thread Type	:	MM, BSW, BSF, UNC, UNF and Fine Pitch
Material	:	{6 (410), 6F (416), 8, 8A (304), 8C, 8CA (347), 8M, 8MA (316), 8T, 8TA (321), 8F, 8FA (303), 8S, 8SA (Nitronic 60) etc.} Alloy Steel (4.6, 5.6, 8.8, 10.9, 12.9, B7) and Nickel Alloys as per customer requirements
Standard	:	ISO, DIN, IS, BS, ANSI, ASTM

Washers

Plain Washer, Spring Washer, Flat Washer, Punch Washer, Square Washer

Diameter Range	:	M8 to M80 diameter
Material	:	{6 (410), 6F (416), 8, 8A (304), 8C, 8CA (347), 8M, 8MA (316), 8T, 8TA (321), 8F, 8FA (303), 8S, 8SA (Nitronic 60) etc.} Alloy Steel and Nickel Alloys as per customers requirements
Standard	:	ISO, DIN, IS, BS, ANSI, ASTM

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ASTM A 193/A 193M ALLOY STEEL, CARBON STEEL & STAINLESS STEEL BOLTING FOR HIGH TEMPERATURE SERVICE

ASTM GRADE	C	Mn	Si	S	P	Cr	Ni	Mo	Other	Hardness	Tensile Psi(MPa)	Yield Psi(MPa)	Elongation in Area %	Redu
A193 B8-B8A AISI Type 304	0.08	2.00 Max	1.00 Max	0.030 Max	0.045 Max	18.00 20.00	8.00 10.50	- -	- -	223HB	75000(515)	30000(205)	30	50
A193 B8-B8MA AISI Type 316	0.08 Max	2.00 Max	1.00 Max	0.030 Max	0.045 Max	16.00 18.00	10.00 14.00	2.00 3.00		223HB 223HB	75000(515)	30000(205)	30	50
A193B8T-B8TA AISI Type 321	0.08 Max	2.00 Max	1.00 Max	0.030 Max	0.045 Max	17.00 19.00	9.00 12.00	-	Ti5xC 0.70Min	223HB	75000(515)	30000(205)	30	50
A193 B8C-B8CA AISI Type 347	0.08 Max	2.00 Max	1.00 Max	0.030 Max	0.045 Max	17.00 19.00	9.00 13.00	-	CbxPTA= 1.10c Min	192HB	75000(515)	30000(205)	30	50
A193B6-B6X AISI Type 410	0.15 Max	1.00 -	1.00 Max	0.03 Max	0.040 Max	11.50 13.50	-				110000(760)	85000(585)	15	50
A193 B7-B7M Alloy Steel (Cr. Mo)	0.37 0.49	0.65 1.10	0.15 0.35	0.040 Max	0.035 Max	0.75 1.20	- -	0.15 0.25	- -	- -	125000(860)	105000(720)	16	50
A193B5 A S -5% Cr.AISI50 1	0.10 min	1.00 Max	1.00 Max	0.030 Max	0.040 Max	4.00 6.00	-	0.40	-	-	100000(690)	80000(550)	16	50

ASTM A 194/ 194 M CARBON STEEL, ALLOY STEEL & STAINLESS STEEL NUTS, BOLTS FOR HIGH PRESSURE & HIGH TEMPERATURE SERVICE

A1948/8A AISI Type 304	0.08 Max	2.00 Max	1.00 Max	0.03 Max	0.045 Max	18.00 20.00	8.00 10.50	-	-	126 - 300 Grade 8 126 - 182 Grade 8 A
A 194 8M/MA AISI Type 316	0.08 Max	2.00 Max	1.00 Max	0.03 Max	0.045 Max	16.00 18.00	10.00 14.00	2.00 3.00	-	126 - 300 Grade 8m 126 - 192 Grade 8 MA
A194/ 8T/8TA AISI Type 321	0.08 19.00	2.00 12.00	1.00 -	0.03 0.78 Min	0.045	17.00	9.00	-	Ti 5 x C	126 - 300 Grade 8T 126-192 Grade 8 TA
A194/ 8C/8CA AISI Type 347	0.08 Max	2.00 Max	1.00 Max	0.03 Max	0.045 Max	17.00 19.00	9.00 13.00	-	CbxTa= 1.10CMin	126 - 300 Grade 8CA 126 - 192 Grade 8 CA
A194-6 AISI Type 410	0.15 Max	1.00 Max	1.00 Max	0.03 Max	0.040 Max	11.50 13.50	-	-	1.10 Cmin	228 271HRC-20-28
A194 2 2HM & 2H Carbon Steel	0.4 min	1 Max	0.4 Max	1.050. Max	0.040 Max	- -	- -	- -	- -	159-352GR.2 248 -352GR.2H 159-237GR.2HM 248-352GR.7 159-237GR.7M 248-352 (HRC-24-38)
A194-7/7M Alloy Steel A194-30.10 A.S.-5%Cr. AISI501	0.37 0.49 0.10 Max	0.65 1.1 1.00 Max	0.15 0.35 1.00 Max	0.04 Max 0.030 Max	0.4 Max 0.040 Max	0.75 1.2 4.00 6.00	- - - -	0.15 0.25 0.4 0.65	- - - -	

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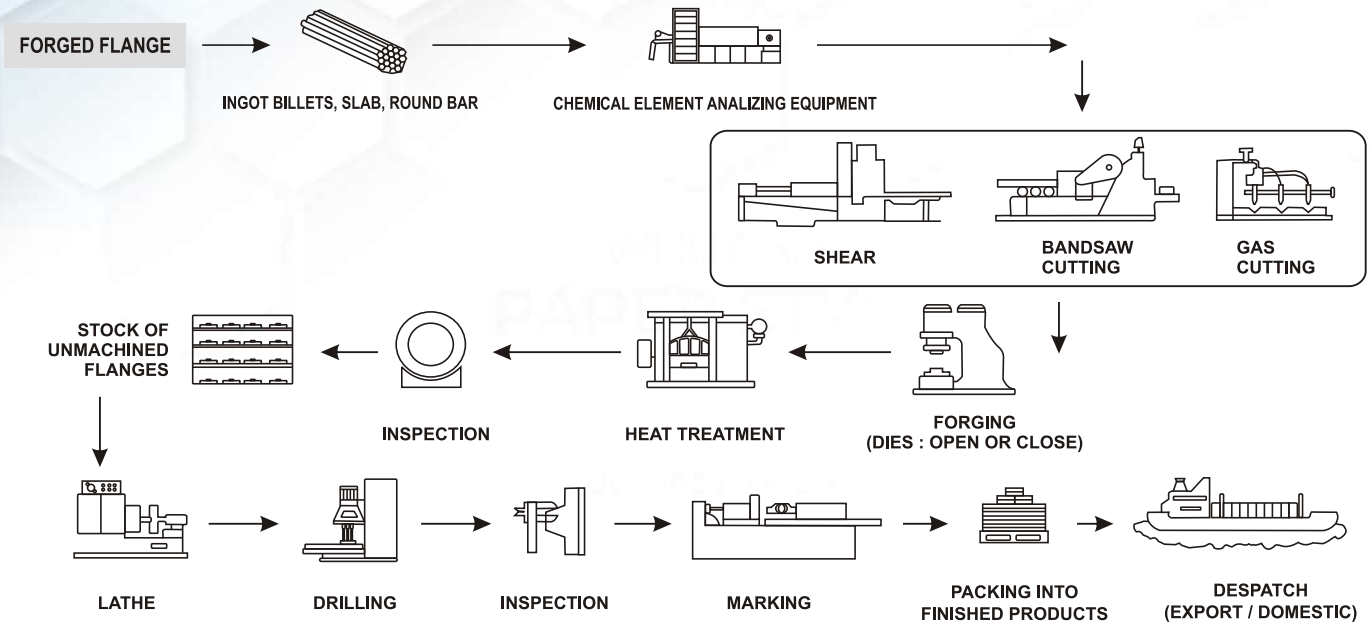
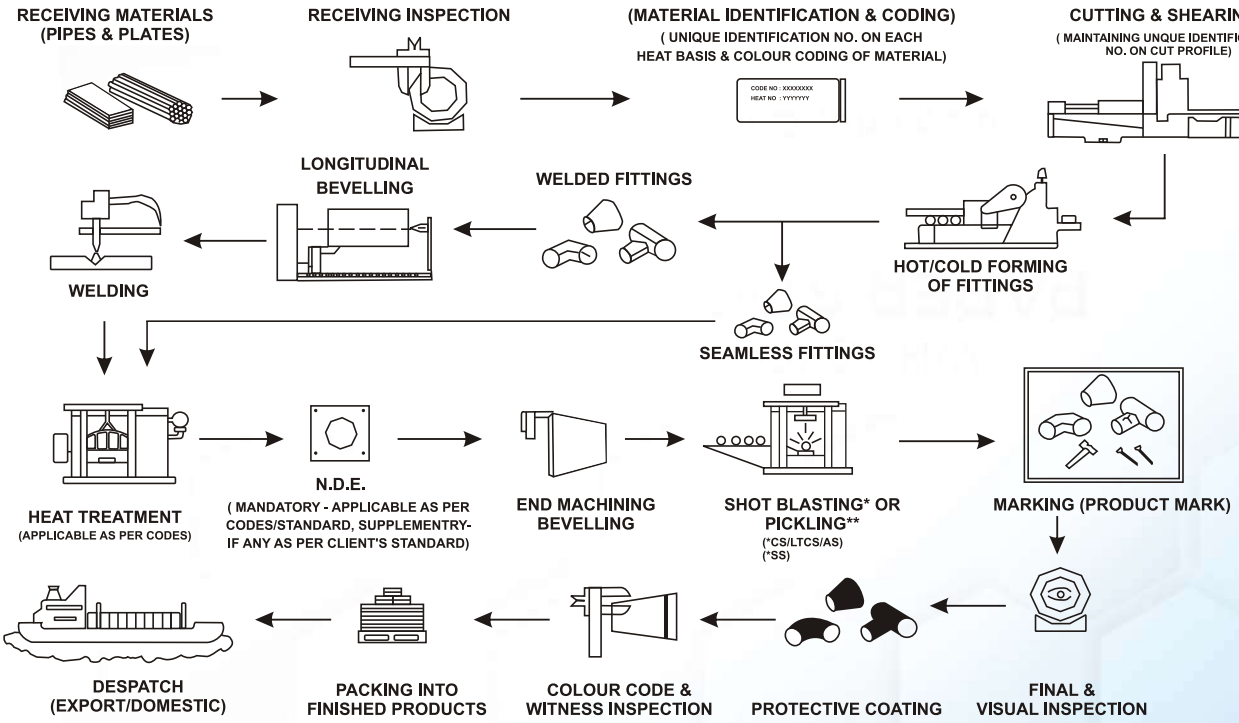
SCHEMATIC DETAILS OF PRODUCTION PROCESS FOR FLANGES



SCHEMATIC DETAILS OF MANUFACTURING PROCEDURE OF BW PIPE FITTINGS



NOTE : 1) STAGE WISE & ONLINE INSPECTION AT EVERY STAGE AND PROCESS BY 100%

2) UNIQUE IDENTIFICATION NO. MAINTAINED AT EACH & EVERY STAGE OF PROCESS FOR TRACEABILITY BACK TO THE STARING RAW MATERIAL.

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ASA PIPE SCHEDULES

NB mm	Schedule Number			THK	THK	WT	NB mm	Schedule Number			THK	THK	WT	NB mm	Schedule Number			THK	THK	WT
OD	A	B	C	NOM	MIN	Kg/m	OD	A	B	C	NOM	MIN	Kg/m	OD	A	B	C	NOM	MIN	Kg/m
15	:	5S	:	1.65	1.44	0.80	125	:	5S	:	2.77	2.42	9.363	400	:	5S	:	4.19	3.67	41.50
(21.30)	:	10S	:	2.11	1.85	0.99	(141.3)		10S	:	3.40	2.97	11.46	(406.4)	:	10S	:	4.77	4.17	47.20
	Std	40S	40	2.77	2.42	1.26		Std	40S	40	6.55	5.73	21.56		:	:	10	6.35	5.56	62.60
	XS	80S	80	3.73	3.26	1.62		XS	80S	80	9.52	8.33	30.64		:	:	20	7.92	6.93	77.90
	:	:	160	4.78	4.18	1.95		:	:	120	12.70	11.11	39.87		Std	:	30	9.52	8.33	93.10
	XXS	:	:	7.47	6.54	2.54			:	160	15.87	13.89	48.60		XS	:	40	12.70	11.11	123.00
20	:	5S	:	1.65	1.44	1.01		XXS	:	:	19.05	16.67	56.85		:	:	60	16.66	14.58	160.00
(26.67)	:	10S	:	2.11	1.85	1.26	150	:	5S	:	2.77	2.42	11.18		:	:	80	21.41	18.73	203.00
	Std	40S	40	2.87	2.51	1.68	(168.3)		10S	:	3.40	2.97	13.70		:	:	100	25.68	22.47	245.00
	XS	80S	80	3.91	3.42	2.19		Std	40S	40	7.11	6.22	27.97		:	:	120	30.94	27.07	286.00
	:	:	160	5.54	4.85	2.88		XS	80S	80	10.97	9.60	42.13		:	:	140	36.50	31.94	333.00
	XXS	:	:	7.82	6.84	3.63		:	:	120	14.27	12.49	53.66		:	:	160	40.46	35.40	365.00
25	:	5S	:	1.65	1.44	1.28		:	:	160	18.24	15.96	66.80	450	:	5S	:	4.19	3.67	46.80
(33.40)	:	10S	:	2.77	2.42	2.07		XXS	:	:	21.94	19.20	78.39	(457.2)	:	10S	:	4.77	4.17	53.20
	Std	40S	40	3.38	2.96	2.48	200	:	5S	:	2.77	2.42	14.61		:	:	10	6.35	5.56	70.50
	XS	80S	80	4.55	3.98	3.20	(219.1)	:	10S	:	3.76	3.29	19.76		:	:	20	7.92	6.93	87.80
	:	:	160	6.35	5.56	4.19		:	:	20	6.35	5.55	32.97		Std	:	:	9.52	8.33	105.00
	XXS	:	:	9.09	7.95	5.40		:	:	30	7.03	6.15	36.42		:	:	30	11.12	9.73	122.00
32	:	5S	:	1.65	1.44	1.63		Std	40S	40	8.18	7.16	42.10		XS	:	:	12.70	11.11	139.00
(42.16)	:	10S	:	2.77	2.42	2.66		:	:	60	10.31	9.02	52.55		:	:	40	14.27	12.49	156.00
	Std	40S	40	3.56	3.11	3.35		XS	80S	80	12.70	11.11	63.98		:	:	60	19.05	16.67	206.00
	XS	80S	80	4.85	4.24	4.42		:	:	100	15.06	13.18	75.01		:	:	80	23.80	20.84	254.00
	:	:	160	6.35	5.56	5.55		:	:	120	18.24	15.96	89.40		:	:	100	29.36	25.69	310.00
	XXS	:	:	9.70	8.49	7.69		:	:	140	20.62	18.04	99.91		:	:	120	34.92	30.55	363.00
40	:	5S	:	1.65	1.44	1.88		:	:	160	22.22	19.44	106.78		:	:	140	39.47	34.54	408.00
(48.30)	:	10S	:	2.77	2.42	3.07		XXS	:	:	23.01	20.13	110.13		:	:	160	45.24	39.58	459.00
	Std	40S	40	3.68	3.22	4.01	250	:	5S	:	3.40	2.97	22.34	500	:	5S	:	4.77	4.17	55.20
	XS	80S	80	5.08	4.44	5.35	(273)	:	10S	:	4.19	3.66	27.57	(508)	:	10S	:	5.54	4.85	68.50
	:	:	160	7.14	6.25	7.17		:	:	20	6.35	5.55	41.35		:		10	6.35	5.56	78.50
	XXS	:	:	10.16	8.89	9.45		:	:	30	7.80	6.82	50.49		Std	:	20	9.52	8.33	117.00
50	:	5S	:	1.65	1.44	2.37		Std	40S	40	9.27	8.11	59.69		XS	:	30	12.70	11.11	155.00
(60.3)	:	10S	:	2.77	2.42	3.89		:	80S	60	12.70	11.11	80.72		:	:	40	15.06	13.18	183.00
	Std	40S	40	3.91	3.42	5.39		:	:	80	15.06	13.18	94.86		:	:	60	20.62	18.04	248.00
	XS	80S	80	5.54	4.85	7.41		:	:	100	18.24	15.96	113.43		:	:	80	26.19	22.92	311.00
	:	:	160	8.71	7.62	10.98		:	:	120	21.41	18.73	131.53		:	:	100	32.54	28.47	381.00
	XXS	:	:	11.07	9.66	13.31		:	:	140	25.40	22.22	153.54		:	:	120	38.10	33.34	441.00
65	:	5S	:	2.11	1.85	3.65		:	:	160	28.57	25.00	170.53		:		140	44.45	38.89	508.00
(73.05)	:	10S	:	3.05	2.66	5.21	300	:	5S	:	3.96	3.46	33.10		:		160	49.99	43.74	564.00
	Std	40S	40	5.16	4.52	8.25	(323.85)	:	10S	:	4.57	4.00	36.60	550	:	5S	:	4.77	4.17	65.20
	XS	80S	80	7.01	6.13	11.30		:	:	20	6.35	5.56	49.70	(558.8)	:	10S	:	5.54	4.85	75.50
	:	:	160	9.52	8.33	14.76		:	:	30	8.38	7.33	65.10		:		10	6.35	5.56	86.40
	XXS	:	:	14.02	12.27	20.20		Std	40S	:	9.52	8.33	73.80		Std	:	20	9.52	8.33	129.00
80	:	5S	:	2.11	1.85	4.47		:	:	40	10.31	9.02	79.70		XS	:	30	12.70	11.11	171.00
(88.9)	:	10S	:	3.05	2.66	6.39		XS	80S	:	12.70	11.11	97.40		:	:	60	22.22	19.44	294.00
	Std	40S	40	5.49	4.80	11.18		:	:	60	14.27	12.49	109.00		:	:	80	28.58	25.00	373.00
	XS	80S	80	7.62	6.67	15.11		:	:	80	17.45	15.27	132.00		:	:	100	34.92	30.55	451.00
	:	:	160	11.10	9.71	21.12		:	:	100	21.41	18.73	160.00			:	120	41.28	36.12	526.00
	XXS	:	:	15.24	13.33	27.40		:	:	120	25.40	22.22	187.00				140	47.62	41.67	600.00
90	:	5S	:	2.11	1.85	5.12		:	:	140	28.57	25.00	208.00				160	53.98	47.19	671.00
(101.6)	:	10S	:	3.05	2.66	7.33		:	:	160	33.32	29.15	239.00	600		5S		5.54	4.85	82.40
	Std	40S	40	5.74	5.02	13.43	350	:	5S	:	3.96	3.46	34.30	(609.6)		10S	10	6.35	5.56	94.70
	XS	80S	80	8.08	7.07	18.45	(355.6)	:	10S	:	4.77	4.17	41.30		Std		20	9.52	8.33	141.00
100	:	5S	:	2.11	1.85	5.78		:	:	10	6.35	5.56	54.60		XS			12.70	11.11	187.00
114.3	:	10S	:	3.05	2.66	8.27		:	:	20	7.92	6.93	68.00				30	14.27	12.49	210.00
	Std	40S	40	6.02	5.27	15.91		Std	:	30	9.52	8.33	81.20				40	17.47	15.29	255.00
	XS	80S	80	8.56	7.49	22.09			:	40	11.10	9.71	84.30				60	24.61	21.53	355.00
	:	:	120	11.10	9.71	27.96		XS	:		12.70	11.11	107.00				80	30.96	27.09	441.00
	:	:	160	13.49	11.80	33.19		:	:	60	15.06	13.18	127.00				100	38.89	34.03	547.00
	XXS	:	:	17.12	14.98	40.61		:	:	80	19.05	16.67	158.00				120	46.02	40.27	639.00
										100	23.80	20.84	195.00				140	52.37	45.85	719.00
										120	27.76	24.29	224.00				160	59.54	52.10	807.00
										140	31.75	27.78	253.00							
										160	35.71	31.25	281.00							

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Formula

1) **WEIGHT OF STAINLESS STEEL PIPES** O.D. (mm) - W.T. (mm) x W.T. (mm) x 0.0248 = Kg. per Mtr. O.D. (mm) - W.T. (mm) x W.T. (mm) x 0.00756 = Wt. Per Feet.	8) **WEIGHT OF BRASS PIPE / COPPER PIPE** O.D. (mm) - Thick (mm) x Thick (mm) x 0.0260 = Wt. Per Mtr.
2) **WEIGHT OF STAINLESS STEEL ROUND BAR** DIA (mm) x DIA (mm) x 0.00623 = Wt. Per Mtr. DIA (mm) x DIA (mm) x 0.00623 = Wt. Per Feet.	9) **WEIGHT OF LEAD PIPE** O.D. (mm) - Wt. (mm) x Wt. (mm) x 0.0345 = Wt. Per Mtr.
3) **WEIGHT OF STAINLESS STEEL SQUARE BAR** DIA (mm) x DIA (mm) x 0.00788 = Wt. Per Mtr. DIA (mm) x DIA (mm) x 0.0024 = Wt. Per Feet.	10) **WEIGHT OF ALUMINUM PIPE** Length (Mtr.) x Width (Mtr.) x Thick (mm) x 0.0083 = Wt. Per Mtr.
4) **WEIGHT OF STAINLESS STEEL SQUARE BAR** A/F (mm) x A/F (mm) x 0.00680 = Wt. Per Mtr. A/F (mm) x A/F (mm) x 0.002072 = Wt. Per Feet.	11) **WEIGHT OF ALUMINUM SHEET** Length (Mtr.) x Width (Mtr.) x Thick (mm) x 2.69 = Wt. Per PC
5) **WEIGHT OF STAINLESS STEEL FLAT BAR** Width (mm) x Thick (mm) x 0.00798 = Wt. Per Mtr. Width (mm) x Thick (mm) x 0.00243 = Wt. Per Feet.	12) **WEIGHT OF CONVERSION OF MTR. TO FEET** Weight of 1 Mtr. ÷ 3.2808 = Feet
6) **WEIGHT OF STAINLESS STEEL SHEETS & PLATES** Length (Mtrs) X Width (Mtrs) X Thick (mm) X 8 = Kg. Per Sheet Length (Ft) X Width (Ft) X Thick (mm) X 3/4 = Kg. Per Sheet	13) **WEIGHT OF CALCULATING WIDTH OF SHEET FOR MAKING PIPE** Outer DIA - Wall Thickness x 22/7 Width of Sheet
7) **WEIGHT OF STAINLESS STEEL CIRCLE** DIA (mm) x DIA (mm) x Thick (mm) ÷ 160 = Gms. Per PC DIA (mm) x DIA (mm) x Thick (mm) x 0.0000063 = Kg. Per PC	14) **FORMULA FOR HEALTHY BUSINESS** Honesty + Quality of Goods + Quick Service + Reasonable Rate = **Good Health of Business**

Third Party Inspection

List of thirds party inspection agency with whom we regularly work

DET NORSKE VERITAS

BUREAU VERITAS

Nuclear Power Corp. of India Ltd.

TUV INDIA

PDIL

Lloyd's Register

EIL

Larsen & Toubro Ltd.

HEG Ltd.

Uhde India Ltd.

IBR

TATA Project

Bharat Heavy Electricals Ltd.

Excellence | Quality | Trust

"Save the environment in present for better life in future."

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Manufacturer / Stockist of Stainless Steel, Carbon Steel, Alloy Steel and Duplex Steel Flanges, Pipe Fittings, Fasteners and Forged Rings, Blocks

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Website : www.steeltekmetals.com

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Workshop 2 : Plot No. P/1290, Kalamboli Steel Market, New Mumbai.