

INTRODUCTION

AN ISO 9001-2015 Certified Co,

N.J.ENGINEERS

**MANUFACTURER OF: CS,SS,MS &
ALLOY STEEL PIPE FITTINGS &
FLANGES**

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ABOUT US

We take pleasure to introduce ourselves as we are one of the **ISO 9001-2015 COMPANY, Leading Manufacturer & Supplier of various types of CARBON STEEL, STAINLESS STEEL & ALLOY STEEL, PIPE FITTINGS, PLATE / FORGED FLANGES.**

OUR PRODUCTS

Our manufacturing activities related to process pipe line. Our range of manufacture of Pipe Fittings include Butt-weld as well as Socket weld Elbows, Tees, Reducers, Bends, Caps, Subtends, Flanges, etc.

We have also developed and manufactured Long Radius Bends having radius as high as 20D in Schedule 10S, to XXS.

OUR ORGANIZATION

We are a growing Organization comprising of 40 Employees out of which 7 are well qualified Engineers. The Proprietor with other QC & production staff are experienced in the same field for more than 25 years working with systems compatible to ISO 9001 and acceptable to any third party inspection agencies.

SYSTEM OF OUR QUALITY CONTROL & INSPECTION

Strict quality control is maintained at each stage of manufacture. The system of stage wise inspection at various stages of manufacturing of individual component for dimensions, quality and tolerances has enabled us to maintain the best quality of our product. The major raw material utilized for the Pipe Fittings are Stainless Steel, Alloy Steel and Carbon Steel Pipes. These items are procured either indigenously from reputed companies like MSL, JINDAL, ESSAR, ISMTL, RATNAMANI TUBES, Ahmedabad or imported with Mill Certificates. Besides they are further subjected to check testing for detailed Physical and Chemical analysis at reputed independent Laboratories by our Inspection Department to ensure compliance with relevant ASTM Standards before taking for production, when cross check is required. Similarly for forgings, bars are procured from SAIL, VSL & other steel plants & plates from SAIL, ESSAR.

The thrust of our Quality Control Programmed for Pipe Fittings is to ensure their compliance with the relevant manufacturing standards like ASTM A 234 / A 403 / A 420 / A 105 / A 181 / A 182 / A 350 / A 694 / MSS SP / A 860.

OUR EXPERIENCE RECORD

We have supplied our fittings directly & indirectly to various Industries like Oil and Gas Sector, Chemicals, Petrochemicals, Refineries, Fertilizers, Semi-Govt. Sectors, and other Allied Industries since last 25 years.....

QUALITY ASSURANCE PROGRAMME

SCOPE

The scope of this Quality Assurance Programmed is to manufacture pipe fittings viz; Butt welded, Socket welded, Threaded and flanges as per various national & international material and dimensional standards.

The materials used for manufacture of these fittings are Carbon Steel, Alloy Steel, and Stainless steel for moderate temperature, high temperature & Low temperature services. Quality Assurance Plan comprises of controls & systems to be followed during manufacture of pipe fittings and other products so that an audit mechanism is introduced during manufacture itself, finally meeting the requirements of specification.

QUALITY ORGANIZATION

A separate Quality Control department functioning under the control of Quality Control Manager maintains all the records. Engineers and inspectors check the material at various stages of manufacture.

MATERIAL CONTROL PROCEDURE

Before actual purchase of raw material, Quality Control Inspector checks all the material visually for surface defects. A dimension check is carried out to see if the dimensions are as per the required code. The manufacture's test certificate is scrutinized and identified with the material. A Chemical check test is carried out on one sample from the lot to verify the authenticity of Test Certificate, or when proper test certificate or marking is not available. In case the material is acceptable, a identification number is assigned and punched on each lot of fittings / forgings.

PROCESS CONTROL PROCEDURE

Prior to cutting the material which may be in the form of Pipes, plates, etc, the identification number is transferred on every piece which may be cut from the parent material. After forging/forming each piece, the same is re-stamped if the identification number is not visible.

HEAT TREATMENT

Heat treatment is done on all the material as per the requirement of applicable specifications. The heat treatment furnaces are fitted with probes (thermocouples) & a temperature recorder for getting an accurate record of time temperature graph for analysis. The recorder is re-calibrated by E.Q.D.C. BARODA every year. A complete record of Time-Temperature Graph, Heat Number Calibration Certificates, etc, is maintained.

TESTING

Tensile Test :

Tensile Test is done on samples drawn from fittings or starting material in accordance with Specifications as required by the purchaser done at approved NABL metallurgical laboratory.

Hardness Test :-

Hardness testing is carried out as per requirement of purchase order and / or the specification. The results obtained are recorded & used for certification.

Die Penetrant / Magnetic Particle / Ultrasonic / Radiography Examination:-

All B/W fittings are done NDT with Die Penetrant, MPI & UT tested within the works. Apart from die penetrant tests at regular manufacturing intervals, all the welds made by the operator on the pipe fittings are 100% X-Ray examined as required by the code and viewed on viewer. CS, SS, AS Etc.. tees are subjected to MPI and test result recorded.

IMPACT TEST

Impact test is done on those materials conforming to ASTM 420/A350 as required by the code. 3 samples from each batch of material are tested for their impact properties at the temperature specified by the code, grade of materials and carried out at NABL Approved Laboratory.

Microstructure Examination

As per ASTM A 262 and its practices as called for by client or parent code of manufacture.

DIMENSIONAL CONTROL

Machining is carried out as per the required dimensional specifications. Adequate templates, fixtures are maintained to guide the dimensions required. Calibrated measuring instruments are used for checking various dimensions. Fittings are then deburred. Threads of Screwed fittings checked with the help of thread gauge/plug gauge. All templates fixtures & gauges are regularly checked to ascertain that they are dimensionally stable.

FINISHING

Shot/Sand Blasting is done on carbon steel and alloy steel fittings whereas stainless steel fittings are pickled & passivated to remove the scale and stabilize the surface.

A proper concentration of solution is maintained. CS/AS Fittings are then painted for protection against corrosion.

MARKING

The fittings, inspected for various dimensions are then stamped for the required specification along with company's stamp.

CERTIFICATION

The fittings are supplied along with the manufacturer's certificate which incorporates the following details, wherever applicable:

- a) Chemical Analysis Results
- b) Tensile Test Results
- c) Hardness Values
- d) Type of Heat Treatment
- e) Impact
- f) Micro
- g) IGC for SS Material
- h) Nomenclature
- i) Results of any supplementary tests. like Impact, IGC, MICRO, Ultrasonic, PMI and MPI.

LIST OF PRODUCTS

S.NO.	ITEM
01	ELBOW
02	BENDS
03	RETURN ELBOW
04	TEE
05	COUPLING
06	CONC&ECCN.REDUCER
07	FLANGES
08	END CAP
09	STUB END/UNION

PRODUCT RANGE

BUTWELDPIPEFITTINGS		
CONSTRUCTION	SEAMLESS	
ITEMS	90°&45°ELBOWS,RETURNBEND,TEE, CONC.REDUCER&ECC.REDUCER,CAP, STUBEND &NIPPLE.	
SPECIFICATION		
CARBONSTEEL	ASTM A 234, GR.WPB/WPC, IS 1239	
STAINLESSSTEEL	ASTMA403-304/304L/316/316L/321/310	
ALLOY STEEL	ASTM A 234 GR. WP 11/WP 12/WP 22/WP5 & Other.	
LOW TEMP.CS	ASTM A 420WPL3/WPL6	
DIMENSION STD.	ANSIB16.9,ANSIB16.28,MSSSP43	
Item Description	ELBOW	½"TO24" Seamless Above 24" Welded.
	TEE	½"TO24" Seamless Above 24" Welded.
	REDUCER	½"TO24" Seamless Above 24" Welded.
	CAP	½"TO24" Seamless Above 24" Welded.
	STUBEND	½"TO24" Seamless Above 24" Welded.
	RETURN BEND	½"TO24" Seamless Above 24" Welded.
	L.R.BEND	½"TO24" Seamless Above 24" Welded.
	Forged And Plate Flanges ½" to 56" 150#,300# ½" to 40" 600#,900#,1500# ½" to 24" 2500#	

SOCKETWELD/SCRDENDPIPEFITTINGS

CONSTRUCTION

FORGED

ITEMS

90°&45°ELBOWS, TEE,REDUCER"O"LETS
LIKE,SOCKOLETS,WELDOLETS,THREDO-LET,
NIPPOLET,UNION,etc...

SPECIFICATION

CARBON STEEL

ASTM A 105

STAINLESSSTEEL

ASTM A 182 F304/304L/316/316L/321

DIMENSIONSTD.

ANSIB16.11&MANUFACTURINGSTD.

SIZE

½" TO 4", 3000 # & 6000 #

FLANGES

CONSTRUCTION

FORGED&PLATEFABRICATED

ITEM

SLIPON,SOCKETWELD,WELDNECK,LAPJOINT.

SPECIFICATION

CARBON STEEL

ASTM A 105, IS 2062

STAINLESSSTEEL

ASTMA182F304/304L/316/316L/321A 240

ALLOY STEEL

ASTM A 182 F11/F22/F5, A387 Gr. 11/22/5

LOW TEMPCS

ASTM A 350 LF2, A 516 Gr. 60/70

DIMENSIONSTD.

ANSIB16.5,IS-6392,CUSTOMERSPECIFICATION.

DAIRYFITTINGS

CONSTRUCTION

SEAMLESS &ERW

ITEM

LONG & SHORT BEND, TEE, REDUCER, NIPPLE, UNION

SPECIFICATION

STAINLESSSTEEL

304 / 304L / 316 / 316L / 321

DIMENSION STD.

ODSIZEASPERDAIRYSTANDARD.

THIRD PARTY INSPECTION/PMC AGENCIES

01	M/S.D.N.V.
02	M/S.B.V.I.S
03	M/S.TATA PROJECTS LTD,
04	M/S. S.G.S.
05	M/S. ICS
06	M/S.G.LLOYDS
07	M/S. TUV NORD
08	M/S. MECON LIMITED
09	M/S. EIL
10	M/S. TRACTEBLE
11	M/S VCS

DETAILS OF PLANT & LIST OF MACHINERY			
OFFICE&WORKS			
ADDRESS	747/3 AND 748/7 G.I.D.C, MAKARPURA, BARODA-390010,GUJARAT,INDIA.		
TOTALAREA	20000 Sq.Ft.		
PHONE NO:	(O)0265-2646264(M) 6353539698		
E-mailNo.	info@njengineers.in njengineers@yahoo.com		
CONTACT PERSON	MR.HARIVADAN/PARAG		
LISTOFMACHINERY			
S.NO	ITEM DESCRIPTION	CAPACITY/SIZE	QTY.
01	HYDRAULICPRESS	400MT. 700MT.	02Nos 01NO.
02	HEATTREATMENTFURNACE (With Graph Recorder andSolutionannealingbat h)	2.5 Mtr x 2 Mtr x 2Mtr.	01 No.
03	OXY-ACETYLENESET	16 mmThk.	06 Nos
04	HACKSAWMACHINE	12" DIA.	01 No.
05	RECTIFIER/TRANSFORMER	STD.SPECS.	02 Nos
06	OIL FURNACE	3.5 MtrX3.0MtrX 3.0 Mtr	01 Nos
07	TIGWELDINGMACHINE	600 AMP	01 NO
08	SANDBLASTINGMACHINE	-	01 NO
09	LATHEMACHINE	VARIOUSSIZE	10 Nos
11	CNC MACHINE	UPTO 24"	01 Nos
12	DIE & TOOLS	½" TO 24" SEAMLESS FITTINGS	01 PER SET
12	DIE & TOOLS	26" TO 42" WELDED FITTINGS	01 PER SET
10	DRILLINGMACHINE	-	07 Nos
11	BENCHGRINDER	-	02 Nos
12	FLEXIBLEGRINDER-AG-7	-	06 Nos
13	VERNIERCALIPER	1'	03 Nos
14	- do-	2'	03 Nos
15	PISTOLCALIPER	1'	03 Nos
16	- do-	2'	03 Nos
17	Go/No Go Gauge(Ring/Plug)	½" TO 4"	05 Nos
18	HARDNESS TESTER	-	01 NO.
19	MPI MACHINE	-	01 Nos
20	ULTRASONICMACHINE	-	01 NO.
21	PMI MACHINE	-	01 NO.

LIST OF OUR MAJOR CLIENTS

M/s. ADANI HAZIRA PORT LTD.
M/s. AIRLIQUIDE INDIA HOLDING PVT LTD
M/s. AUTOMETER ENERGITEC LTD.
M/s. ADVANCE SYSTEK (P) LTD.
M/s. ADITYA BIRLA CHEMICALS (I) LTD
M/s. ADANI PORT & SEZ LTD
M/s. A G & P CITY GAS PVT LTD
M/s. BHARAT PETROLEUM (BPCL)
M/s. BRAY CONTROL (P) LTD.
M/s. CONMAT OIL & GAS (P) LTD
M/s. CONTROL PLUS OIL & GAS SOLUTION (P) LTD
M/s. CARIN OIL & GAS
M/s. EMERSON PROCESS MANAGEMENT CHENNAI (P) LTD
M/s. FILSEP EQUIPMENT (P) LTD
M/s. FILTRATION TECHNIK INDIA PVT LTD
M/s. FLASHPOINT EQUIPMENT PVT LTD
M/s. GREEN GAS LIMITED
M/s. GNFC
M/s. GAS AUTHORITY OF INDIA LTD. (GAIL)
M/s. GUJARAT GAS LIMITED
M/s. GE OIL & GAS MEASUREMENT & CONTROL
M/s. HINDUSTAN PETROLEUM (HPCL)
M/s. INDIAN OIL CORPORATION LTD. (IOCL) PIPELINE DIVISION
M/s. INDIAN OIL CORPORATION LTD. (IOCL) REFINERY
M/s. INEL GAS CONTROLS P LTD.
M/s. IDEX FLUID & METERING P LTD
M/s. INDRAPRASTHA GAS LIMITED (IGL)
M/s. KRISHAK BHARATI CO-OP.LTD (KRIBHCO)
M/s. MNGL
M/s. MECON LIMITED (PMC)
M/s. NIRMAL INDUSTRIAL CONTROLS PVT LTD
M/s. ONGC
M/s. PDIL (PMC)
M/s. ROCKWIN FLOWMETERS INDIA PVT LTD
M/s. SICK INDIA PVT LTD
M/s. SMARK ENGINEERING (I) PVT LTD
M/s. SECURAMAX VALVES & CONTROL SYSTEM (P) LTD
M/s. SRF LIMITED
M/s. SOPAN O&M Co. (P) LTD
M/s. SICGIL INDUSTRIAL GASES
M/s. THINK GAS
M/s. TORRENT GAS LIMITED
M/s. VEDANTA LIMITED
M/s. VIJAY TANKS & VESSELS (P) LTD

BRIEF RESUME OF KEY PERSONNEL

01. BHAVESH.C.DESAI - PROPRIETOR

A Post Graduate Engineer, he is having 35 years of rich experience of working in this field. He is the person with vast knowledge of techno-commercial skill.

Onwards 1980 to 1991 he worked for FAIRDEAL & NITIN PROFILES PVT. LTD, as a Chief Executive/General Manager in the field of Pipe fittings & flanges. He was instrumental in setting production & marketing & carried perfect liaison with all third party, like, G.LLOYDS, BVIS, DNV, TATA PROJECTS LTD, MECON, BAX COUNSEL, etc.. He is very good Knowledge of all Pipe fittings Products.

02. JAILEN.B.DESAI - (CEO)

A Degree holder of Mechanical Engineering in these filed fittings/flanges has experience of 7 years with knowledge of standard & codes of ASME. He is also valid level II holder in NDT (Non Destructive Test).

03. CHANDRESH PATEL-ACCOUNTS

A Diploma holder with 15 years experience in this field mainly of Fittings/flanges and has experience of working with esteemed organizations. He looks after all Planning & Expediting as well as Administration.

04. MONA CHANGEORGE-Q.C. Incharge

A Diploma Mechanical Engineer with 25 years experience in this field mainly with Quality Control Inspection. He worked with Tube Product Incorporate, & he looks after all the new developments / forged Products / technical specifications as well as incoming & outgoing inspections with two assistance.

05. HARIVADAN-Q.C.HEAD

A Diploma Mechanical Engineer with 25 years experience in this field mainly with Quality Control Inspection. He worked with various organization like, Tube Product Incorporate , & he looks after all the new developments / forged Products / technical specifications as well as incoming & outgoing inspections with two assistance.

06. RAVJIMAKWANA-PRODUCTION IN-CHARGE

A Diploma holder with 25 years experience in various field mainly for fittings & flanges and has a well experience of working with NITIN PROFILESPVT.LTD, ADITYA FORGE LTD, and look after all the productions

07. PARAG SHAH-PRODUCTION HEAD

A Diploma holder with 15 years experience in various field mainly for fittings & flanges and has a well experience of working and look after all the productions.

08. ASHWINGANDHI-ACCOUNTS&FINANCE Head

A Commerce Graduate with 20 years of experience in this field. He worked with various organizations & look after all the accounts and Finance

SOME OF OUR FACILITY PHOTOS

























