



**MARK FORGE**



**MARK FORGE**

**Manufacturer of Carbon Steel, Alloy Steel,  
Stainless Steel & Low Tem ,pipe fittings & flanges**





**MARK FORGE as ISO 9001:2008  
certified company Manufacturing  
& Exporting in Carbon  
steel, Stainless steel, Low  
temperature & Alloy steel Pipe  
Fittings & Flanges of various Sizes,  
Types, Range, Schedule and Class  
as per Indian & ASTM Standards.**

**ABOUT US**







# ABOUT US

We can supply our products to various core sector industries such as Process, Power, oilfield, Fertilizers, Petrochemicals, Chemicals, Cement, and Heavy Engineering industries under renowned internationally recognized Third Party Inspection Agencies and Consultants.

**MARK FORGE** Fittings has always maintained tight control over its integrated manufacturing operation from Raw Material sourcing to Final inspection of Products. Our Fittings are clearly and permanently marked and traceable to chemical and physical properties carried out in Third Party approved Lab, indicating full compliance with Material Specifications.

**MARK FORGE** Fittings can supply Pipe fittings in Mass Quantity at Competitive Rates as we are backed by Modern Technology to manufacture various Type of SEAMLESS & WELDED fittings such as ELBOWS, TEES, REDUCERS, CAPS & STUBENDS as per attached Manufacturing Range.



# ABOUT US

**MARK FORGE** can supply  
IBR approved fittings and Flanges  
Ex- stock at competitive rates,  
which includes all Alloy Grade such as  
**P-11, P-22 & P-91.**





# Certification of Registration

Certificate Number: 2003230910101

*This is to certify that*

**MARK FORGE**

19/A TEEN SHED LAKDI BUNDER, DARUKHANA  
REAY ROAD (EAST), MUMBAI - 400010, INDIA

*Has been assessed and certified as meeting the requirement of*

**IEC/ISO 9001:2015**

**(Quality Management System)**

For the following activities

**“MANUFACTURER OF STEEL PIPE FITTING & FLANGES”**

**“IAF CODE - 17”**

*Certification Cycle of this certificate is three (3) years from the issue date and validity of the certificate shall be subject to the successfully completion of the surveillance audit as mentioned above, current status of the certificate can be verified on the official portal of Certification body. I.e. [www.guardiancertification.com](http://www.guardiancertification.com)*

Initial Registration Date	23 <sup>rd</sup> Mar. 2020	Current Issue Date	23 <sup>rd</sup> Mar. 2020
1 <sup>st</sup> Surveillance on or before	23 <sup>rd</sup> Feb. 2021	Valid Until	22 <sup>nd</sup> Mar. 2023
2 <sup>nd</sup> Surveillance on or before	23 <sup>rd</sup> Feb. 2022	Revision	00

*UAF is full member of International Accreditation Forum (IAF). United Accreditation Foundation Inc, 400 North Center Dr, Ste 202 Norfolk, Va 23502, United States Of America. To check validity of this certificate please visit [www.guardiancertification.com](http://www.guardiancertification.com)*



Accreditation No. 51809380119



*[Signature]*  
Director  
Guardian Assessment Pvt. Ltd.  
CIN: U74999MH2018PTC307933  
Accredited by United Accreditation Foundation (UAF)

Registered office | E12, B-Indy, Sankarika, Kichavaya, Highland Park, Lakhandhwa Road, Andheri West, Mumbai, Maharashtra - 400017 India, Phone: +91-22-49753127, mail: [guardian@guardiancertification.com](mailto:guardian@guardiancertification.com)

# CERTIFICATION





# EQUIPMENT FOR TESTING



**HARDNESS TESTING  
MACHINE**



**PORTABLE HARDNESS  
TESTING MACHINES**



**D METER**



**D.P.TESTSET**



**MOLY TESTER**



**RADIOGRAPHY  
VIEWER**



**GUAGES FOR  
SCREWED FITTINGS**



**VERNIER CALIPERS**



**SCALES**



**FIXTURE**



**FOR ALL FITTINGS  
ANGLE PLATES**



ALL TESTING ON MATERIAL IS CARRIED OUT INTERNELLY AS WELL AS IN  
THIRD PARTY APPROVED LAB DETAILS AS UNDER

	INHOUSE	OUTSIDE LAB
CHEMICALTEST	---	✓
HEATTREATMENT	✓	✓
TENSILETEST	---	✓
IGC/ MICRO	---	✓
IMPACT	---	✓



# NDA TEST

	INHOUSE	OUTSIDE LAB
HARDENESS	✓	✓
RADIOGRAPHY	---	✓
ULTRASONICTEST	---	✓
PMITEST	---	✓
MPITEST	---	✓
DPTTEST	✓	✓

# QUALITY ASSURANCE MANUAL

## ◆ **SCOPE :**

The scope of this Quality Assurance Manual is to manufacture Pipe fittings viz. But welded, Socket welded & threaded series as per various national and international material and dimensional standards.

The material used to manufacture this fitting are Carbons steel, Alloy steel Stainless steel or high Temperature & low temperature services. Quality Assurance Manual comprises of controls & systems to be followed during manufacturing process so that an audit mechanism is introduced during manufacture itself, to produce a product, meeting the requirement of the specification.

## ◆ **ORGANISATION :**

Quality Control Engineer maintains all there cords assisted by inspection engineer who checks And follows QUALITY ASSURANCE MANUAL at various stage of manufacturing.

All chemical and physical testing is conducted at all stages as per applicable code and requirements.





# QUALITY ASSURANCE MANUAL

## ◆ MATERIAL CONTROL SYSTEM :

All the raw material purchase is made through genuine source i.e. directly from Mill or there authorized dealer. Quality control inspectors carry out all the raw material for visual and dimensional checks. The material is correlated with manufacturers test certificate for correlation of heat number and markings on raw material. A chemical checks is carried out on one sample from each heat/lot to verify with applicable code, On satisfactory chemical report a Batch number is assigned and punched on each lot.

## ◆ PROCESS CONTROL SYSTEM :

Prior to cutting the material, which may be inform of pipes, plate, rods, forgings, billets etc., the Batch number is transferred on every piece, which may be cut from parent material. After forgings each piece is re stamped if Batch number is not visible.

## ◆ HEAT TREATMENT :

Heat treatment is done on all the material as per requirement of applicable specification. Heat treatment is done on material on the basis of each LOT defined as all fittings of same size, type, & wall thickness manufactured from one heat of material. A test coupon is also heat treated along with the material for each lot/batch. The heat treatment furnace is fitted with thermocouples & temperature recorder for fitting an accurate record of time temperature graph for analysis. The thermo couples are periodically calibrated by reputed inspection agency/calibration house. A complete record of time temperature graph is maintained in record for reference.



# TESTING

## ◆ Tensile Test

Tensile test is done on a test coupon/sample drawn from fittings or starting material in accordance with specification, as required by purchaser. All testing is done in third party approved labs and physical report of product is incorporated in material certificates issued to the clients.

## ◆ Hardness Test

Hardness testing is carried out per lot/batch as per sample technique (10% material from each heat treatment batch), An in-house hardness machine is available which is being calibrated periodically by Calibration agency. The results obtained are recorded & used for certification.

## ◆ Impact Test

Impact test is done on those materials conforming to A420 and A 350 as required by the code. Samples from each batch of material are tested for their impact properties at the temperature as specified by the code. The procedure for testing is done as per A370.





# TESTING

## ◆ **Supplementary Test**

Any supplementary test in addition to code is carried out if specified in purchase or derby the purchaser. Such as corrosion test, magnetic particle test and ultrasonic test.

## ◆ **MACHINING AND DIMENSIONAL CONTROL**

Machining is carried out as per required dimensional specification. Adequate templates and fixtures are maintained to guide the dimensions required. Accurate measuring instruments used to check various dimension during the machining. GO and NOGO gauges are used to check the ID & OD of fittings. Fittings are then deburred Threaded fittings are checked with help of thread gauge. All templates fixtures and gauges are regularly checked to as certain that they are dimensional stable.

## ◆ **FINISHING**

All fittings are cleaned to remove any surface scale during heat treatment. All stainless Steel fittings are Pickled and passivated .A proper concentrate of solution is maintained Fittings are then coated with rust preventive for protection against corrosion.

# TESTING

## ◆ MARKING

The fittings are inspected for various dimensions & are then stamped for required specification. Heat number/Batch number is also stamped again if it is not visible.

## ◆ CERTIFICATION

The fittings are supplied along with the manufacturer certificate which incorporate following details :

- |                            |  |
|----------------------------|--|
| (a) Material description   | (b) Chemical analysis (heat/product)       |
| (c) Tensile test           | (d) Hardness Value                         |
| (e) Type of heat treatment | (f) dimensional standards                  |
| (g) Material specification | (h) Impact value for low temperature Items |

## ◆ GENERAL NOTE

The quality assurance plan as documented here is an abridged version. The program is pursued to achieve desired quality levels. Detail document and data is maintained can be reviewed by customer Engineer on request. This program is upgraded as and when requires and change in the technical Specification of applicable code.





# LIST OF 3rd PARTY INSPECTION AGENCIES

We have supplied material under following inspection agencies.

- Bureau Veritas
- Tuv Gl
- Tuv Nord
- Indian Register Of Shipping (Irclass)
- Det Norske Veritas (Dnv)
- Quest

We can also supply our material under following Inspection.

- Chempro
- Bax Council
- Lloyds Register Of Shipping
- PDIL

Note:- Please note we issue following MTC

- 3.1 B
- 3.2 B (Stagewise Inspection by TPI)



# Get in Touch

## MAILING ADDRESS

19/A, TEEN SHED, LAKDI BUNDER, DARUKHANA, REAY ROAD,  
MUMBAI: 400 010

## EMAIL ADDRESS

[sales.markforge@gmail.com](mailto:sales.markforge@gmail.com)

## PHONE NUMBER

+91 9892992233 / +91 22 23700677

