

ONE STOP SHOP FOR

PIPES
FITTINGS
FLANGES
VALVES
FASTENERS
GASKETS

Carbon and Stainless Steel,
Alloys, Nickel Alloys,
Copper Alloys, Aluminium Alloys,
Duplex & Super Duplex

ASTM, ASME, DIN, EN, ISO, BIS, BS, GIS, GOST,
GB, AND OTHER INTERNATIONALLY
ACCREDITED STANDARDS



matNfab

Your challenge is our progress

Established in the year 2019 RAW matNfab is an ISO 9001: 2015 Certified company and one of the prominent Manufacturer of Flanges, Fittings, Outlets, Fasteners, Lifting and Handling Equipment Including Manufacturing of Pressure Vessels, Heat Exchangers, Reactors, Distillation Columns and Fabricated Components and Supplier of Industrial Raw Materials Pipes, Plates, Bars, Coils in Ferrous and Non Ferrous Grades. We maintain total control on the quality of goods and use the latest technology to manufacture our products.

We supply pipes, tubes, fittings and flanges of major approved brands like MEGA ITALY, MELESI ITALY, ULMA FORGE, METALFAR, BEKAN JAPAN, ERNE FITTINGS, AND many more. Being an ISO certified Company our quality control team ensures that all the products are manufactured as per standard requirement referring to (ASME and ASTM) and all other national and international standards.

We follow a friendly work environment, where our employees are able to learn better. Our experts and skilled laborers help us build products that are sustainable in the ever-changing market trends. Our ever-ready team is highly enthusiastic and motivated to create products that offer exceptional value for money.

Our Vision :

To attain a leadership position in the Steel Industry through performance excellence by providing cost-effective metal packaging products.

Our Mission :

To supply high-quality steel products, providing ancillary services and solutions to worldwide clients while using innovative technologies which are environment-friendly to motivate our employees to focus on continuous improvement, highest business standards, work ethics, and corporate citizenship. We are committed to exceeding the expectations of our customers by providing high-quality products & services. We aim to excel in everything we do.

Our Core Values :

- Excellence
- Ethical Values
- Transparency
- Team work



Seamless Alloy Pipes / Boiler Tubes

Standards: ASTM, ASME, DIN, EN, ISO, BIS, BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Steel Grades: A335-P5, P9, P11, P22, P91, 16Mo3, 13CrMo4-5, 10CrMo9-10, X11CrMo5, X10CrMoVNb9-1, X 20 CrMo V 11-1

Schedules: SCH STD - SCH160/XXS

Thickness: 1.5mm to 80.0mm

Ends: Bevelled/Plain

Lengths: SRL 5-8m and DRL 9-13m

Availability: Stock / Production



Welded & Seamless Stainless/Duplex Pipes

Standards: ASTM, ASME, DIN, EN, ISO, BIS, BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Steel Grades: TP304L, TP316L, TP316TI, TP304H, TP310S, TP321H, TP347H, TP904L, UNS S31803 (DUPLEX), UNS S32760 (SUPER DUPLEX)

Sizes: 1/8" to 36" - 10.29 mm to 914.40 mm

Schedules: SCH STD, SCH XS, SCH XXS, SCH 5S, SCH 10/10S, SCH 20, SCH 30, SCH 40/40S, SCH60, SCH80/80S, SCH 100, SCH 120, SCH 140, SCH 160

Thickness: 1.5mm to 80.0 mm

Ends: Bevelled/Plain

Lengths: SRL 5-8m and DRL 9-13 m

Availability: Stock / Production



Seamless Pipes Carbon & Low Temperature

Standards: ASTM, ASME, DIN, EN, ISO, BIS, BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Steel Grades: A333 Gr.6, A106 Gr B/A/C, API 5L X42, X46, X52, X60, X65, X70 (PSL1 & PSL2)

Sizes: 3/8" to 24" - 10.2mm to 610.0mm

Schedules: SCH STD, SCH XS, SCH XXS, SCH20, SCH40, SCH60, SCH80, SCH100, SCH120, SCH140, SCH160

Ends: Bevelled/Plain

Lengths: SRL 5-8m and DRL 9-13m

Availability: Stock / Production



Welded Pipes Longitudinally/Spiral ERW-SAW

Standards: ASTM, ASME, DIN, EN, ISO, BIS, BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Steel Grades: API 5L Gr.B, X42, X46, X52, X60, X65, X70, S235JR, S275J2H, S355J2H, S355JOH, P235HG, P265GH, P355N, P420N, L245NB, L290NB, ST37.8, ST35.8

Sizes: 3" to 60" - 80.0mm to 1600.0mm

Schedules: SCH STD, SCH XS, SCH XXS, SCH20, SCH30, SCH40, SCH60, SCH80, SCH100, SCH120, SCH140, SCH160

Thickness: 1.5mm to 60.0mm

Ends: Bevelled/Plain

Lengths: SRL/DRL 6-18m

Availability: Stock / Production



Welded & Seamless Nickel Alloy Pipes

Standards: ASTM, ASME, DIN, EN, ISO, BIS, BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Steel Grades: Alloy 825, Alloy 625, Alloy 600, Alloy 400, Alloy 201, Inconel C276, Alloy 200

Sizes: 3" to 42"

Schedules: SCH STD - SCH160/XXS

Thickness: 1.5mm to 60.0mm

Ends: Bevelled/Plain

Lengths: SRL 5-8m

Availability: Stock / Production





Welding Neck Flange

Standards: ASTM, ASME, DIN, EN, ISO, BIS, BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Rate: From 150LBS to 2500LBS / PN10 to Pn400

Size: From 1/2" to 68"

Materials Carbon Steel: ASTM A105 / ASTM A350 LF2 Self coloured & Hot Dip Galvanised

Materials Stainless Steel: ASTM A182 F304L, F316L, 304H, F321, F321H, F347, F347H, F310S, F317, F904L

Materials Alloy Steel: ASTM A182 F1, F5, F9, F11, F22, F91

Material Duplex & Nickel Alloy: ASTM A182 F51, F53, F55, Alloy 825, Alloy 625, Alloy 600, Alloy 400, Alloy 201, Inconel C276, Alloy 200

Type: RF, FF, RTJ

Availability: Stock / Production

Blind Flange

Standards: ASTM, ASME, DIN, EN, ISO, BIS, BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Rate: From 150LBS to 2500LBS / PN10 to Pn400

Size: From 1/2" to 68"

Materials Carbon Steel: ASTM A105 / ASTM A350 LF2 Self coloured & Hot Dip Galvanised

Materials Stainless Steel: ASTM A182 F304L, F316L, 304H, F321, F321H, F347, F347H, F310S, F317, F904L

Materials Alloy Steel: ASTM A182 F1, F5, F9, F11, F22, F91

Material Duplex & Nickel Alloy: ASTM A182 F51, F53, F55, Alloy 825, Alloy 625, Alloy 600, Alloy 400, Alloy 201, Inconel C276, Alloy 200

Type: RF, FF, RTJ

Availability: Stock / Production



Slip On Flange

Standards: ASTM, ASME, DIN, EN, ISO, BIS, BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Rate: From 150LBS to 2500LBS / PN10 to Pn400

Size: From 1/2" to 68"

Materials Carbon Steel: ASTM A105 / ASTM A350 LF2 Self coloured & Hot Dip Galvanised

Materials Stainless Steel: ASTM A182 F304L, F316L, 304H, F321, F321H, F347, F347H, F310S, F317, F904L

Materials Alloy Steel: ASTM A182 F1, F5, F9, F11, F22, F91

Material Duplex & Nickel Alloy: ASTM A182 F51, F53, F55, Alloy 825, Alloy 625, Alloy 600, Alloy 400, Alloy 201, Inconel C276, Alloy 200

Type: RF, FF, RTJ

Availability: Stock / Production



Socket Weld Flange

Standards: ASTM, ASME, DIN, EN, ISO, BIS, BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Rate: From 150LBS to 2500LBS / PN10 to Pn400

Size: From 1/2" to 68"

Materials Carbon Steel: ASTM A105 / ASTM A350 LF2 Self coloured & Hot Dip Galvanised

Materials Stainless Steel: ASTM A182 F304L, F316L, 304H, F321, F321H, F347, F347H, F310S, F317, F904L

Materials Alloy Steel: ASTM A182 F1, F5, F9, F11, F22, F91

Material Duplex & Nickel Alloy: ASTM A182 F51, F53, F55, Alloy 825, Alloy 625, Alloy 600, Alloy 400, Alloy 201, Inconel C276, Alloy 200

Type: RF, FF, RTJ

Availability: Stock / Production



ButtWeld Fittings Carbon Steel

Standards: ASTM, ASME, DIN, EN, ISO, BIS ,BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Fitting Types: 45°/90°/180° LR or SR Elbows, Concentric Reducers, Eccentric Reducers, Equal Tees, Reducing Tees, Caps.

Process: Seamless and Welded

Steel Grades: A234WPB, A234WPL6, WPHY 42, WPHY 46, WPHY 52, WPHY 60, WPHY 65, WPHY 70, P235GH, P265GHL245NB - L290NB - L360NB - L415NB - L360QB - L415QB - L450QB - L485QB - L555Q

Sizes: 3/8" to 62" - 10.2mm to 1560.0mm

Schedules: SCH STD - SCH160/XXS

Thickness: 1.5mm to 60.0mm

Ends: Bevelled/Plain

Availability: Stock / Production



ButtWeld Fittings Stainless & Duplex Steel

Standards: ASTM, ASME, DIN, EN, ISO, BIS ,BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Fitting Types: 45°/90°/180° LR or SR Elbows, Concentric Reducers, Eccentric Reducers, Equal Tees, Reducing Tees, Caps.

Process: Seamless and Welded

Steel Grades: WP304L, WP316L, WP316TI, WP317L, WP304H, WP310S, WP321H, WP347H, WP904LUNS S31803 (DUPLEX), UNS S32760 (SUPER DUPLEX)

Sizes: 3/8" to 56" - 10.2mm to 1442.0mm

Schedules: SCH STD - SCH160/XXS

Thickness: 1.5mm to 50.0mm

Ends: Bevelled/Plain

Availability: Stock / Production

ButtWeld Fittings Alloy Steel

Standards: ASTM, ASME, DIN, EN, ISO, BIS ,BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Fitting Types: 45°/90°/180° LR or SR Elbows, Concentric Reducers, Eccentric Reducers, Equal Tees, Reducing Tees, Caps.

Process: Seamless and Welded

Steel Grades: A234 WP1, WP5, WP9, WP11, WP12, WP22, Wp91 16Mo3, 13CrMo4-5, 10CrMo9-10, X11CrMo5, X10CrMoVNb9-1, X 20 CrMo V 11-1

Sizes: 3/8" to 56" - 10.2mm to 1442.0mm

Schedules: SCH STD - SCH160/XXS

Thickness: 1.5mm to 50.0mm

Ends: Bevelled/Plain

Availability: Stock / Production



ButtWeld Fittings Nickel Alloy Steel

Standards: ASTM, ASME, DIN, EN, ISO, BIS ,BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Fitting Types: 45°/90°/180° LR or SR Elbows, Concentric Reducers, Eccentric Reducers, Equal Tees, Reducing Tees, Caps.

Process: Seamless and Welded

Steel Grades: Alloy 825, Alloy 625, Alloy 600, Alloy 400, Alloy 201, Inconel C276, Alloy 200

Sizes: 3/8" to 24" - 10.2mm to 609.6mm

Schedules: SCH STD - SCH160/XXS

Thickness: 1.5mm to 60.0mm

Ends: Bevelled/Plain

Availability: Stock / Production



Forged Steel Fittings

Dimensions to: ANSI B16.11 / BS 3799 / B1.20.1 / ISO 7-1 / MSS SP 97 / MSS SP 83 / MSS SP 95

Ends: NPT / Socket Weld / BSPT

Rating: 3000LBS / 6000LBS / 9000LBS

Standards: ASTM, ASME, DIN, EN, ISO, BIS, BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Size: 1/8" to 4"

Type: 90 Degree Elbow / 45 Degree Elbow / Equal & Reducing Tee / Full & Reducing Coupling / Bushes / Plugs / Caps / Crosses / Unions

Olets

Dimensions to: MSS-SP97

Standards: ASTM, ASME, DIN, EN, ISO, BIS, BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Rating: 3000LBS / 6000LBS

Schedule: STD to SCH 160

Size: 1/2" to 36"

Type: Weldolet / Sockolet / Thredolet / Sweepolet / Nipolet / Elbolet / Latrolet / Nipo-flange

Materials Carbon Steel: ASTM A105 / ASTM A350 LF2 Self coloured & Hot Dip Galvanised

Materials Stainless Steel: ASTM A182 F304L, F316L, 304H, F321, F321H, F347, F347H, F310S, F317, F904L

Materials Alloy Steel: ASTM A182 F1, F5, F9, F11, F22, F91

Material Duplex Steel: ASTM A182 F51, F53, F55, Alloy 825, Alloy 625, Alloy 600, Alloy 400, Alloy 201, Inconel C276, Alloy 200



Pipe Nipples

Threaded both ends / Plain one end / Threaded one end / Plain both ends / Victaulic

Thread: NPT / BSPT

Size: 1/8" to 8"

Standards: ASTM, ASME, DIN, EN, ISO, BIS, BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Schedule: STD to SCH 160

Materials: ASTM A106 Gr B / API 5L Gr B Galvanised / ASTM A333 Gr 6 / API 5L Gr X52 / ASTM A182 F304L / ASTM A182 F316L / ASTM A182 304H / ASTM A182 F321 / ASTM A182 F321H / ASTM A182 F347 / ASTM A182 F347H / ASTM A182 F310 / ASTM A182 F317 / ASTM A182 F1 / ASTM A182 F5 / ASTM A182 F9 / ASTM A182 F11 / ASTM A182 F22 / ASTM A182 F91

Special Flanges

Standards: ASTM, ASME, DIN, EN, ISO, BIS, BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Type: Swivel flange, Tube sheet, Anchor, Orifice, Compact, Drip Rings, Spades & Spacers

Materials: Carbon steel, Stainless, Duplex, Super Duplex, Nickel Alloy

Availability: Production only



Induction Bends

Standards: ASTM, ASME, DIN, EN, ISO, BIS, BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Radius: 2D, 3D, 5D, 7D, 10D

Process: Seamless and Welded

Steel Grades: Carbon Steel, Stainless Steel, Alloy Steel only

Sizes: 3/8" to 42" - 10.2 mm to 1067.0 mm

Schedules: SCH STD - SCH160/XXS

Thickness: 1.5 mm to 60.0 mm

Ends: Bevelled/Plain

Availability: Stock / Production



Special Pieces / According to Drawing

Standards: ASTM, ASME, DIN, EN, ISO, BIS, BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Fitting Types: Reducing Elbow, Barred Tee, Y Piece, Long Tangent Elbow, Crosses

Process: Seamless and Welded

Steel Grades: Carbon Steel, Stainless Steel, Alloy Steel only

Sizes: 3/8" to 60"

Thickness: 1.5 mm to 60.0 mm

Ends: Bevelled/Plain

Availability: Production only



Flange Stud Bolts

Standards: ASTM, ASME, DIN, EN, ISO, BIS, BS, GIS, GOST, GB, & OTHER INTERNATIONALLY ACCREDITED STANDARDS

Types: Hexagon Bolts, Hexagon Flange Bolts, Socket Head Cap Screws, Hexagon Flange Nuts Square Head Bolts, Round Head Bolts, Fully Threaded Studbolts, Washers

Material: Carbon steel, Stainless, Steel, Duplex Steel, Alloy Steel, Nickel Alloys

Availability: Stock / Production



Flange Gaskets

We offer flange gaskets to suit all flanges.



WE DELIVER OUR PRODUCTS WORLDWIDE



raw matNfab
Your challenge is our progress

RAW MatNfab
PLOT NO 21, U-5, SHIVAJI
NAGAR GOVANDI, MUM-400043.
Email: rawmetnfab@gmail.com.
PH: +91 9372024386 / 8657083940



+91-8047309073

RAW matNfab

<https://www.indiamart.com/rawmatnfab/>

Established in the year 2018 at Mumbai , Maharashtra, we "Raw Matnfab" are as Sole Proprietorship based firm ,engaged as the foremost Manufacturer of Tube Fittings, Precision Pipe Fittings, Valves Stainless Steel Stud Bolt,Hex Nut and many more



About Us

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For more information, please visit

<https://www.indiamart.com/rawmatnfab/profile.html>



PIPE FITTINGS



Stainless Steel Cross Tee



Long Radius Return Bend



Gi Coupling



Welding Fittings

INDUSTRIAL FLANGES



Mild Steel Round Flange

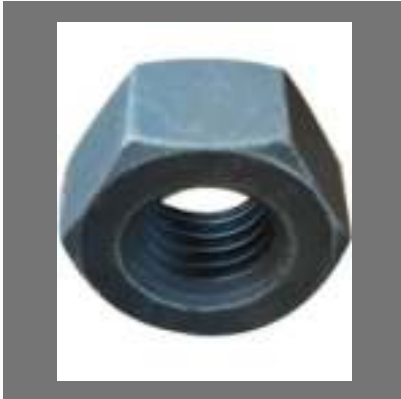


Stainless Steel Weld Neck
Flange



Stainless Steel Machined
Flange

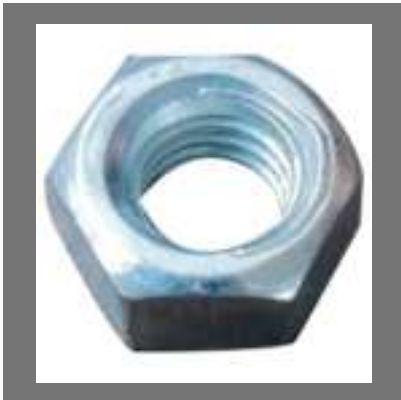
HEX NUT



Mild Steel Hex Nuts



Mild Steel Stud Nut



Stainless Steel Hex Nut

PIPE ELBOW



180 Degree Long Radius
Elbow



Steel Elbow



Carbon Steel Pipe Bend

NEW ITEMS



MS Pipe Nipple



Cnc Components



Precision Machined
Components



Machined Components

OTHER PRODUCTS:



Pipe Fittings



Black Round Allen Bolt



Stainless Steel Allen Cap Bolt



Brass Precision CNC Turning Parts

OTHER PRODUCTS:



Mild Steel Precision CNC
Turning Parts



Stainless Steel Threaded Hex
Nipple



Brass Hex Nipple



Pipe Nipple

OTHER PRODUCTS:



Steel Pipe Nipple



Expansion Pipe Bends



Cast Iron Butterfly Valve



Beryllium Copper Rod

OTHER PRODUCTS:



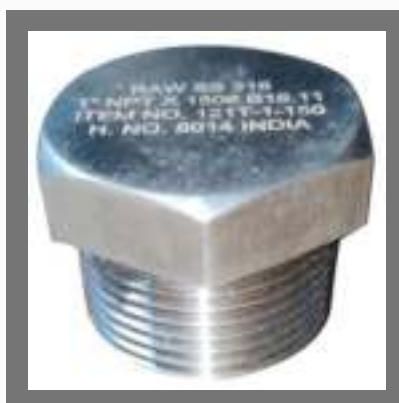
Pipe Coupling



B7 PTFE Stud Bolts



Stainless Steel Eye Bolt



SS316 NPT Hexagonal Stop Plug

OTHER PRODUCTS:



Stainless Steel Bimetal Bush



Drain Plug Assembly



Instrumental Line Adaptor



Concrete Pipe Reducer

OTHER PRODUCTS:



Round Head Copper Rivet



Fasteners



MS Bolt Nut



SS Barrel Nipple

Factsheet

Year of Establishment	: 2018
Nature of Business	: Exporter and Manufacturer
Total Number of Employees	: 11 to 25 People



CONTACT US

RAW matNfab

Contact Person: Zaki Khan

Plot No 21, U-5, Shivaji Nagar, Govandi, Mumbai Suburban
Mumbai - 400043, Maharashtra, India



+91-8047309073



<https://www.indiamart.com/rawmatnfab/>



matNfab

Your challenge is our progress



MANUFACTURER, SUPPLIER AND EXPORTERS

Instrumentation Tube Fittings, Precision Pipe Fittings, Hydraulic Hose Fittings, Instrumentation Valves & Manifolds, Mechanical Seals, Rotary Joints & Provide Customized Engineering Solutions.

INSTRUMENTATION TUBE FITTINGS:

RAW MATNFAB TUBE FITTINGS have been carefully designed and manufactured to close tolerances to provide leak free performance in control system, process instrumentation devices and also in environment equipment employed in chemical, power generation, petroleum, pulp and paper plants etc. It have also been used extensively in other applications and industries wherever high reliability and quality are required.



FEATURES

Silver plated threads in nut prevents the galling.
 And Front Ferrule become a Secondary Seal To Give Leak Proof Solution.
 Positive leak free seal.
 Design : Forged Body or Bar Stock Body
 Back Ferrule Lock the Tube And Fittings And Work as A primary Seal to Absorb Pressure pulses and Vibrations

OPERATING PARAMETERS

Material: SS316-304, CS, Inconel, Monel, Duplex etc.
 End connections: BSP, NPT, BSPT, etc
 Pressure: upto 10000 psig (Depending on size)
 Temperature Rating: upto 428 Degree Celsius.
 Size: 6mm - 10mm - Tube OD Metric size 1/4" - 1" - Tube OD Pipe Thread Size

APPLICATIONS

- Gas pipe
- Chemical Fertilizer Pipe
- Hydraulic Pipe
- Pneumatic Connections

PIPE FITTINGS:

RAW MATNFAB Pipe Fittings are designed and configured for instrumentation, process and fluid control. Precision Pipe Fittings are available in a variety of configurations, various type of end connections and sizes that fulfill the need for leak-free performance of Process System. Main features that call for its use are its simplicity, compactness in design, ease of assembly, high reliability, easy availability & global acceptance.

FEATURES

Positive leak-free seal
 Tapered pipe ends.
 Variety of end connections and configurations

OPERATING PARAMETERS

Material: SS316-304, CS, Inconel, Monel, Duplex etc.
 End Connections: BSP, NPT, BSPT, etc
 Size: 1/8" to 1" pipe thread
 Pressure: upto 10000 psig (Depending on size)
 Temperature Rating: upto 428 Degree Celsius

APPLICATIONS

Pneumatic Connections
 Structure Pipe
 Hydraulic Pipe
 Gas Pipe
 Chemical Fertilizer Pipe



BALL VALVES:

RAW MATNFAB range of Ball Valves are designed for use in hazardous and corrosive environment. All Ball Valves are preciously machined, designed to more durability and maximum efficiency to provide high quality and low cost.



APPLICATIONS

CNG and other Gas Application
 Instrument Air lines.
 High pressure Instrument lines
 General Plant Service.

FEATURES

Compact Design.
 Material Traceable to certified material test report
 Ball Design having bearing support to minimize operating-torque and seat wear.
 Blow-out Proof Stem.
 Low Operating Torque
 Handles indicates flow direction in Panel Mounted Two/Three-Way Valves.
 Micro-finished ball provides a positive seal.
 Full operating pressure at any port
 Spring loaded PEEK seat ensure bubble tight sealing and compensate-for wear
 and Pressure/Temperature changes.

OPERATING PARAMETERS

Material : SS316
 Size : 6mm – 10mm – Tube OD Metric size 1/4" – 1" – Tube OD – Pipe Thread Size
 End Connections: Male-Female, Female-Female , Male-Male.
 Thread type : NPT/BSPT Pipe Connections
 Pressure Rating : Upto 6000 psig (408 bar) at CWP with PTFE-packing and peek seat
 Temperature Rating : -45°C to 232°C with PTFE packing and peek seat
 Body Design: Round/Hexagonal/Square Single Piece/Two Piece-/Three Piece
 Light Series/Heavy Series/Panel Mounted

NEEDLE VALVES :

Raw matn fab Needle valves have a slender tapered point at the end of the valve stem that is lowered through the seat to restrict or block flow. Fluid flowing through the needle valve turns 90 degrees and passes through an orifice that is the seat for a rod with a cone shaped tip. Needle valves are widely used to accurately regulate the flow of liquid and gases at low flow rates.

OPERATING PARAMETERS

Material: SS316
 End Connection: Male-Female, Female-Female , Male-Male.
 Thread Type: NPT, BSPT, BSPP Pipe Connection
 Pressure Rating: upto 6000 psig (408 bar) at CWP
 Temperature Rating: -54OC to 649OC...(according to SEAT TYPE)
 Size: 1/4" – 1" – Fractional Size ODT 6mm – 25mm – Tube OD Metric size 1/4" – 1" – Tube OD Pipe Thread Size

APPLICATIONS

Hydraulic and Pneumatic
 Instrument Isolations
 Venting
 General Plant Service



GAUGE ROOT VALVES:

RAW MATNFAB Gauge Root Valves are designed for connecting system impulse line & transmitters. These manifold consist of Single valve configuration which allows for easy isolation, calibration, block and bleed for gauges, pressure switches and static pressure transmitting instruments.



FEATURES

Available in Material SS316, all wetted parts in accordance with NACE MR01-75
 Material Traceable to certified material test report
 Rolled and plated threads for greater strength and smoother operation.
 Packing below the threads prevents lubricant washout.
 Bar Stock Body straight pattern
 Non rotating self centering stem tip

APPLICATIONS

General Plant service
 Instrument Isolation
 Hydraulic and Pneumatic
 Pressure measurement devices
 Venting

OPERATING PARAMETERS

Material : SS316
 End Connection: 1/2" and 3/4" Male to Female end connetions 1/2" female Gauge Port Standard
 Pressure Rating: upto 6000 psig (408 bar) at CWP
 Temperature Rating : -54OC to 232OC with standard PTFE packing upto 428OC with optional Graphite acking
 Size: 1/4" - 1" - Fractional Size ODT 6mm - 25mm - Tube OD Metric size
 1/4" - 1" - Tube OD Pipe Thread Size

MANIFOLD VALVES:

RAW MATNFAB ranges of Valve Manifolds offer a safe and economical method of installation to control and measure pressure of liquids and gaseous media. **AGA ENGINEERING** Valve manifolds are functionally installed to control, measure, isolate, equalize, calibrate, drain, vent or differentiate the pressure of liquids

FEATURES

One Piece Barstock Forged Body for high strength and fully safety.
 Bonnet lock prevents accidents disassembly.
 Excellent flow control and ensures bubble-tight shutt off.
 Hard seat designed to reduce packing friction giving very low torque operation.
 Available in Material SS316, NACE certified on request
 PTFE packing standard, Graphite packing for high temperature and to meet fire testing to API 607
 Available with 2 way design
 Convenient method of blocking, bleeding and calibrating pressure instruments.
 Combine the function of a tee, calibration valve, isolation valve, all tubing and fittings in a single valve configuration.

OPERATING PARAMETERS

Material: SS316
 Port Size: 1/2" NPT / BSPP / BSPT
 Type: R-type, H-type, T-type.
 End Connection: Pipe to Pipe, Pipe to Flange, Flange to Flange, Remote, Remote mounting Base vent, Base, Direct and Integral mounting.
 Pressure Rating : upto 6000 psig (408 bar) at CWP
 Temperature Rating : -54OC to 232OC with PTFE packing upto 428OC with optional graphite packing



Pressure and Differential pressure Instrumentation

CHECK VALVES:

RAW MATNFAB CHECK VALVES are specially designed & manufactured for flow control of fluids and gases in corrosive & hazardous environment. Valves are precision machined with designer durability and maximum efficiency to provide high quality and low cost alternatives in fluid and gaseous control systems of



FEATURES

Available in High Grade Stainless Steel, Brass materials tapered pipe ends.
 Instant shut off in upstream condition
 100% factory tested for both crack & reseal
 Complete Heat Traceability

SPECIFICATIONS

Orifice: 1.078" to 0.656" (2.0mm to 16.7mm)
 Cv Factor: 0.18 to 6.56
 End connections: Male-Male, Female-Female, Male-Female
 Thread types: NPT, BSP, BSPT, ISO, DIN and JIS
 Pressure Rating: upto 3000 psig (205 bar) at CWP
 Temperature Rating: upto 1980C with Viton® O-Ring

MONO FLANGE VALVES:

RAW MATNFAB Monoflange is available in a wide range of single-, two- and three-valve configurations, including block, double-block, block-and-bleed, double-block-and-bleed and block-bleed-block. The mono-flange allows the pipeline is vertical or horizontal, the gauge or pressure transmitter can be fitted on either the front face or on the outer diameter of the body to allow good orientation and ease of reading.

FEATURES

One Piece Barstock Forged Body for high strength and fully safety.
 Bonnet lock prevents accidents disassembly.
 Excellent flow control and ensures
 Bubble-tight shutt off.
 Hard seat designed to reduce packing friction giving very low torque operation.
 Available in Material SS316, NACE
 Certified on request
 PTFE packing standard, Graphite packing for high temperature and to-meet fire testing to API 607
 Available with 2 way design
 Available with Pipe to Pipe, Pipe to Flange, Flange to Flange, Remote.
 -Remote mounting Base vent, Base, Direct and Integral mounting.
 Convenient method of blocking, bleeding and calibrating pressure -instruments.
 Combine the function of a tee, calibration valve, isolation valve, all -tubing and fittings in a single valve configuration.

APPLICATIONS

Pressure and Differential pressure instrumentation



DOUBLE BLOCK AND BLEED VALVE:

Are integrally one piece double block and bleed assemblies, for primary isolation of pressure take-offs, where the valve is directly mounted to the vessel or process pipe. Instruments may be directly mounted to the valve outlet or alternatively remotely with gauge lines/impulse pipe work. The integral block and bleed valves are ideal in various applications such as isolation of equipment and instrument for maintenance, instrument drain, gauge isolation, chemical injection and sampling, pressure connections etc.



APPLICATIONS

Double block & bleed instrument isolation.
 Gauge isolation, instrument drain.
 Chemical injection connection, Sample connection.
 Chemical seal instrument isolation. Piping / instrument interface.
 Direct mounting of instruments. Remote mounting of instruments.

FEATURES

ANSI B16.5 Flanged Inlet Connections 1/2" to 2" Sizes.
 Class 150 rated to Class 2500 rated.
 Rolled stem operating threads for low torque operation.
 Back seat design provides secondary stem sealing and prevents stem blowout.
 API Flanged Inlet Connections also available.
 Standard Material of construction: SS316 / SS316L, Carbon Steel and Duplex.
 Material Traceability to EN10204 3.1.8 (Body only).
 Anti Blow-Out stem & low operating torque.
 Colour coded close contact dust cap and function label for easy identification.
 Valves are available with Packing, PTFE, PEEK or Graphite.
 Bubble tight shut off.

SPECIFICATIONS

Material: SS316/SS316L, Carbon Steel, Duplex
 End Connections: 10 mm and 15 mm Full bore Valve design.
 1/2" - 14 NPT (Female) Standard Outlet.
 1/4" x 18 NPT (Female) Standard Vent.
 1/2" x 14 NPT (Female) optional vent.
 Pressure Rating: Class 150 to Class 2500 in accordance with ASME B16.5.
 Temperature Rating: Up to 204°C.

RELIEF VALVE:

RAW MATNFAB Relief Valves are designed such that when the upstream pressure exceeds the closing force exerted by the spring, the lower stem opens, permitting flow through the valve. Flow through the valve increases proportionately to the increase in upstream pressure. R Series valves feature reliable cracking and resealing pressures, leak tight design, and a selection of end connections and seal materials to suit

FEATURES

Compact Design
 Cracking pressure adjustable externally while the valve is in operation
 Operation pressure settings are externally adjustable while the valve is in operation.
 Eight different spring ranges provide greater system sensitivity and enhanced.
 Lock wire feature secure a given pressure setting
 Color coded springs and labels indicate spring cracking range
 Back pressure has minimum effect on cracking Pressure

SPECIFICATIONS

Material: SS316
 Size: 1/4", 6mm-8mm OD
 End connections: Male-Male, Female-Female, Male-Female
 Thread type: NPT, BSPP, BSPT Pipe Threads
 Cracking Pressure: Adjustable from 50 to 6000 psig (3.4 to 413 bar)
 Maximum Pressure Rating: 8000 psig (552 bar)
 Orifice Size: 4.8 mm
 Temperature Rating: -200C to 2000C with Viton O'Ring

APPLICATIONS

General Plant Service Instrument Isolations
 Hydraulic and Pneumatic Pressure measurement devices



TOGGLE VALVES:

RAW MATNFAB standard Toggle valve is a compact design for normally closed and quick on/off service. Moving the handle 90 degrees upwards opens the valve to full flow and stops it firmly in the open position. Shifting the handle position downwards shuts off the valve by spring return. Toggle valves are ideal for applications where instant on-off control is necessary. The Toggle valves with dual seats provide leak-tight bi-directional sealing.



FEATURES

- Compact Rugged design
- Quick ON/OFF service
- Straight and angle flow Patterns
- Panel mountable
- Variety of end configurations includes
- Coloured nylon handles

SPECIFICATIONS

Material: SS316
 Size: 1/8" - 1/2", 3 - 12 mm Tube OD
 End connections: Male-Male, Female-Female, Male-Female
 Thread type: NPT, BSPT Pipe Connections
 Flow Coefficient (Cv): 0.11-0.70
 Orifice Sizes: 0.080" (2mm), 0.125" (3.2mm), 0.250" (6.4mm)
 Pressure Rating: upto 3000 psig (206 bar) at CWP
 Temperature Rating: -28OC to 93OC

BLEED VALVES:

RAW MATNFAB bleed valves can be used on instrumentation devices such as multivalve manifolds or gauge valves. Functionally the valve vent line pressure to atmosphere or to contaminant when used with the optional barbed vent tube. Generally, bleed valves are used whenever an instrument is removed from a system or to assist in the calibration of control devices.

FEATURES

- Compact and convenient installation
- Vent tube design prevents accidental removal of the stem
- Vent tube directs excess liquid or gas from system line
- Variety of end configurations includes Male NPT, BSPT and SAE pipe connections

SPECIFICATIONS

Material: Stainless Steel
 Thread Type: NPT, BSPT and SAE pipe connections
 Flow Coefficient (Cv): ~ 0.25
 Orifice Size = 0.125" (3.20mm)
 Size : 1/8" to 1/2" Pipe Thread
 Pressure Rating: upto 10000 psig (689 bar) at CWP
 Temperature Rating: -54OC to 454OC

APPLICATIONS

- General Plant service
- Pressure measurement devices
- Venting



PURGE VALVE:

RAW MATNFAB Purge Valves may be utilized as either bleed, purge, or drain valves. The knurled cap is permanently assembled to the valve body for safety. One-quarter turn with a wrench from finger-tight obtains leak-tight closure on first makeup. Snugging with a wrench ensures closure to the rated pressure with subsequent makeups. Additional wrenching ensures a leak-tight seal up to the rated pressure.



FEATURES

- Compact and convenient installation
- Vent hole in the cap bleeds, drains or purges system pressure
- Crimped cap resists accidental disassembly
- Require only quarter turn with a wrench from finger tight position to ensure a leak tight seal
- Variety of end configurations includes

SPECIFICATIONS

Material: SS316
 Size: 1/8" - 1/2", 6-10mm Tube OD
 Thread Type: Male/Female NPT, SAE
 Pressure Rating: upto 4000 psig (276 bar) at CWP
 Temperature Rating: -540C to 2320C

HYDRAULIC FITTINGS:

RAW MATNFAB HYDRAULIC FITTINGS are designed and carefully manufactured to provide a reliable, leak proof connection in instrumentation and process tubing systems which ensure optimum performance, operational safety and maximum efficiency.

FEATURES

Material: Stainless Steel, Carbon Steel/ Alloy Steel / Nickel Alloy/ Brass.
 L-Series (Light duty for low pressure application)
 S-Series (Heavy duty for high pressure application)
 Available for fractional and metric Tube with the choice of pipe threads, i.e. NPT, BSP/BSPT, ISO METRIC, SAE/MS.
 Available Size: 6mm to 42mm ODT (L-Series)
 : 6mm to 38mm ODT (S-Series)

OPERATING PARAMETERS

Pressure Rating: upto 630 bar (Depends on series and size of fittings)
 Temperature Rating: upto 4280C



QUICK RELEASE COUPLINGS:

RAW MATNFAB Quick Release Coupling / Hydraulic Couplings is a device used for easy, quick & leak-proof connections & disconnections of flexible pipes carrying fluids. It has numerous advantages over conventional methods



FEATURES

- Robust in Construction
- Flow Capacity is High
- Positive Valve stop.
- Captive valve seal ensures leak free sealing, minimize the seal washout or damage from high velocity Fluid acceleration.
- Seal with PTFE back- up rings designed to ensure reliable and leak free sealing even in high pressure application.
- Ball Locking mechanism Provides safe and reliable connections.

SPECIFICATIONS

- Material: SS316
- Thread type: NPT, BSPP, BSPT Pipe Threads
- Size: 1/8" - 1" Pipe Thread
- Pressure Rating : Up to 3500 PSI at CWP
- Temperature Rating : Up to 200OC (Depending on sealing material)

APPLICATION

- | | |
|-------------------------------|----------------|
| Chemicals and Pharmaceuticals | Oil Refineries |
| Machine Tool/Automation | Ship Building |
| Off Shore | Steel Mills |

37° FLARE TUBE FITTINGS:

RAW MATNFAB 37 degree flared Tube Fittings is compact and simple in design for assembly and assures maximum reliability and performance. 37 degree flared Tube Fittings consist of three precision components such as Body, Sleeve and Nut. 37 degree flared Tube Fittings provide zero leak, full flow connection in hydraulic system operating at working pressure. It is especially suited for low and medium wall tubing with good vibration resistance in a broad selection of types and sizes. It is used in virtually every application that uses fluid power for motion control & automation.



FEATURES

- 37O Flare Fittings performs extremely well even under severe vibration and thermal shocks provides zero leak
- Very effective seal between the fittings and the flared tube
- Upon tightening, the sleeve ensures tube alignment with fitting axis, reduces mechanical strain on tube and compensates for vibration.
- Fitting can be equally coupled to metric or inch tubes
- The system leak free integrity remains after disassembly and reassembly
- Variety of end connections

OPERATING PARAMETERS

- Material: Stainless Steel , Brass
- Size: 1/8" - 1" , 6mm - 25mm Tube OD
- Pressure Rating : upto 5000 psig (Depending on size)
- Temperature Rating : upto 428OC

INSTRUMENTATION HARDWARE - AIR HEADER

Air Headers replaces many unit valve assemblies, which would normally be operating from one source. Our offered air headers are intended to lessen the number of potential break ways as opposed to creating instrumentation associations with tubing. The air headers are suitable for use with a variety of outlet takeoff valves. The inlet-connection can be flange -or screwable. A drain-valve is possible at the manifolds can be supplied with a bracket/ U clamp for wall mounting.

FEATURES

Robust	Stainless Steel body
Reliable	Welded body construction
Durable	Reduction in assembly time

SPECIFICATION

Central Pipe Body : Stainless Steel AISI
 Material : SS316/SS304,SS304L/SS316L
 Ball Material : Stainless Steel 316
 Stem Material : Stainless Steel 316
 Seat Material : PTFE
 Working Pressure : 275 psi (19 bar)
 Temperature Rating : -51.0 C to 193.0 C



APPLICATION Air distribution for pneumatic actuation

CONDENSATE POTS:

We manufacture complete range of condensate pots required for measurement of steam / vapour which condensate to liquid state at the ambient temperature. These are used to cool down very high temperature liquid and to maintain a constant liquid head above the instrument. These can be installed in both horizontal and vertical position.



FEATURES

Functionality , Durability, High performance

SPECIFICATIONS

Standard size: Pipe size 2", 3", 4", 6" and larger size upon request.
 Standard length: Pipe length 8", 10", 12", and larger length upon request.
 Working pressure: 6000 PSIG (41.34 MPa).
 Standard Material of construction: 316SS, 321SS, 304SS, C.S., ASTM A106 Gr. B.
 Optional Sour Gas service valves are available, conforming to NACE Std. MR-01-75.
 Pipe Schedule: 40, 80, 160, seamless pipe. Chamber as per ISA RP3,
 NPT as per ANSI B2.1 taper pipe thread? Socket weld as per ANSI B16.11
 Butt weld as per ANSI B16
 All chambers are 100% factory tested prior to shipment.

SYPHONS:

Syphons protect pressure measuring instruments from pulsations in the medium and from excessive heating. Cooling element for fluids, gases and vapours in pressure measurement. For direct mounting to the pressure connection of the pressure measuring instrument or to the shut-off device (stopcock or valve) mounted underneath.



FEATURES

Designs per DIN 16282 or to industrial standards
 Permissible temperatures to 400° C
 Nominal pressures to 160 bar

TECHNICAL DESCRIPTION

Material used : SS304/SS316, A105, Monel, Inconel
 Allowable Pressure : 6000PSI
 Max Temperature : 120° C
 Size : 1/4", 3/8", 1/2"
 End connections: Male-Male, Female-Female, Male-Female
 Thread type: NPT, BSPP, BSPT Pipe Threads

APPLICATIONS

Syphons are used mainly to protect pressure instruments, gauges, switches and transmitters directly coming in contact with high temperature process fluids or vapours. These are mounted between process and pressure instrument, they reduce process pulsation and gen-

SNUBBERS:

Snubber are used for protect Pressure Gauge from sudden pressure charge and fluctuation of pressuring fluid. Sudden pressure charges are dampened before they reach the pressure sensing element to minimize stress on it and giving it longer life.

SPECIFICATION

Material Used : SS304, SS316, SS316L/SS304L, Duplex, Carbon Steel, Brass, Alloy
 Max Working Pressure : Up To 400 bar
 Size : 1/4" To 1"
 End connections: Male-Male, Female-Female, Male-Female
 Thread Type: NPT, BSPP, BSPT Pipe Threads
 Max Allowable Tem. : 120° C

APPLICATION

Hydraulic Machine
 Compressors, Process plants etc.





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MARKETING & SALES

86570 83940

ACCOUNT

rawmetnfab@gmail.com

Office: Plot No. 21, U5 Shivaji Nagar, Govandi, Mumbai - 400 043.

Factory: Plot No. R 334, MIDC Rabale, Near Vaishali Hotel, Rabale, Navi Mumbai.