



**MISHU ENGINEERING CO.**

*— Constant improvement leads to success —*



**Manufacturer & Supplier: -**

**Cartridge filter Housing, Bag Filter Housing**

**Basket Strainers, T-Type Strainers, Y-Type Strainers**

**Storage Tanks, Pressure Vessels**

## Company Profile: -

We, **MISHU ENGINEERING CO.** offer complete filtration technology solutions for various filtration requirements of air, gas & liquid. We are Leading manufacturer and supplier of wide range of **Cartridge Filter Housing, Bag Filter Housing, Basket Strainers, T-Type Strainers, Y-type Strainers, Storage Tanks, Pressure Vessels etc.** Our products are used in sectors such as Petrochemicals, Gas Filtration, Electronics, Water Treatment, Metal Finishing, chemical industry, paper industry, cement industry, Paint Industry etc.

What drives us is our motto **"Constant Improvement leads to success "**. Constant improvement is an ongoing effort by us to improve something. These efforts can look like small improvements but we believe that, over the time these small changes lead us to continuous improvement and success in reaching our long-term goals.

A company focus to make its customers happy, therefore our every action with innovative approach and consistent efforts in analysis revolves around the attainment of high level of customer satisfaction. We welcome the feedback and suggestions not only from customers but from investors and business associates because it is one of the easiest ways to identify flaws and overcome them.

We have the support of advanced production house that is outfitted with all the required facilities that simplify our operations. Also, we are supported by a strong and innovative team of professionals, who have a good experience of the respective domain. Our company is driven by quality and strictly abides by all the industrial norms and regulations.

## Design Strength: -

We Design our products based on our excellent Experience and expertise in products. Also meet international design standard like ASME, DIN, BS etc. we offer complete Strength design (ASME) calculation for pressure vessels & pressure drop calculation for filters & strainers based on customer requirements.

## Quality: -

We have been able to impress our customers by offering our high-quality products. our products are made from robust and durable Materials & Components. Our quality control experts check the raw materials & components before utilizing. Also, check finished products by using advance technologies to ensure that, all quality parameters achieve to satisfy customer requirements. Our excellent teams continuous work out to improve products quality and manufacturing processes. Our aim to set new records in the industry by constantly delivering high-quality products to our clients on time.

## Vision: -

To deliver quality products and services to our customers and maintain high level of customer satisfaction.

## Mission: -

To establish ourselves as a trustworthy company and Growth by customer supports, innovative approach, adopting new technologies, constant improvement & positive attitude.

## Why Us?

we are ideal to have business deals due to the following factors:

- The policy framed by us are ethical as well as transparent and we discuss with our clients before delivering our products to them.
- Our network is wide and our supply chain management is maintained by reliable professionals.
- A client-oriented approach is followed by us to run business because we know that a happy customer is the key to success.
- We are committed towards our works and this dedication of ours has helped us in winning the customer heart.
- Cost effective pricing is another hallmark of our firm.

# CARTRIDGE FILTER HOUSING

We have established ourselves in presenting a wide array of **Cartridge Filter Housing**. It is engineered with a rigid construction and modern techniques. We design suitable **up to 200 Nos.** filter cartridge elements in single housing. We provide high quality Products with wide range of flow capacities **up to 1500 M<sup>3</sup>/Hr.** & contaminants holding capacities. It is normally used, wherever fine filtration required in almost all type of process industries.

## Operation: -

This Product is ideally used to separate hard contaminants from liquid or gas. Contaminated fluid or gas is entered and distributed equally around the filter Cartridges and passed through filter cartridges from outside to inside. Solid elements are collected from outside of cartridge. And filtered Fluid or gas exit from outlet connection. It is easy to maintain and clean in a reliable manner without making any extra efforts.

## Features:

- Easy dismantle for cleaning and maintenance.
- Eye Bolt type cover locking structure
- Less pressure drop design because of considering of higher filtration area.
- Suitable for high temperature and pressure.
- High dirt holding capacity.
- Hinge or Davit pipe assembly available for quick opening of cover flange.
- Housings are made with Mirror, electro polishing to resist dirt and scale.
- One coat of epoxy paint applied on outside surface for CS / MS Constructed.
- Pressure gauge arrangement at top to monitor internal pressure of housing.
- Safety valve at inlet/out connection to reduce internal pressure if increase.
- Arrangement of difference pressure monitoring instruments.

## Design capability: -

- Customized Design available.
- suitable up to 200 Nos of Cartridges filter element with suitable length of up to 40" in single cartridge filter housing.
- DOE (Double Open End) and SOE (Single Open End) Cartridge filter element can be assembled.
- Flow rate up to 1500 M<sup>3</sup>/hr.
- **Mechanical Strength (ASME) Design Calculation on customer Request.**
- End connection up to ½" NPS to 24" NPS in Pipe schedule.

## Design Options: -

- Simplex Cartridge Filter Housing
- Multi Cartridge Filter Housing
- Duplex Cartridge Filter Housing
- Sanitary Design Type Cartridge Filter Housing
- Skid Base Design Type Cartridge Filter Housing

## Cartridge Filter Element: -

- DOE (Double Open End).
- Code 7 (226 O-ring) SOE (Single Open End).
- Code 3 (222 O-ring) SOE (Single Open End).
- Size of filter Cartridge 10", 20", 30", 40" in Length.
- Diameter of filter cartridge 2", 2.5", 4", 4.5"
- Filtration rating from 1 to 100 Micron
- Filter Media- Polypropylene (PP)



## Material of Construction (Housing Body): -

- SS 304
- SS 304L
- SS 316
- SS 316L
- Duplex Steel (SS 2205)
- Carbon Steel (SA 516 Gr 70)
- Mild Steel (IS 2062)
- CS/MS + Rubber lining.
- CS/MS + FRP Lining.

## Gasket Material: -

- Neoprene
- Natural Rubber
- Silicon
- Buna-N
- PTFE
- EPDM
- CAF
- Spiral Wound Gasket

## End Pipe Connections: -

- ANSI B16.5 Flanged.
- BS-10, Table D, E, F Flanged.
- Butt-Welded Pipe schedule.
- Tri Clover Adaptor
- Threaded
- Socket-welded

## Applications:

- Water Treatment
- Chemical
- Oil & Gas
- Pharma
- Paint & Ink
- Food Beverages
- Dairy
- RO Plant
- Petrochemical
- Process industries & any more

# BAG FILTER HOUSING

We have established ourselves in presenting a wide array of **Bag Filter Housing**. It is engineered with a rigid construction and modern techniques. We design suitable **up to 30 Nos.** filter Bag elements in single housing. We provide high quality Products with wide range of flow capacities **up to 1500 M<sup>3</sup>/Hr.** & contaminants holding capacities. It is normally used, wherever fine filtration required in almost all type of process industries.

## Operation: -

This Product is preferably used to separate hard contaminants from liquid, gas and powder. Contaminated fluid or gas or powder is entered through inlet connection and scattered equally around the filter Bag and passed through filter Bag from inside to outside. Solid elements are collected from inside of Bag. And filtered Fluid or gas or powder exit from outlet connection. It is easy to remove and clean in a reliable manner without making any extra efforts.

## Features:

- Easy dismantle for cleaning and maintenance.
- Eye Bolt type cover locking structure
- Less pressure drop design because of considering of higher filtration area.
- Suitable for high temperature and pressure.
- High dirt holding capacity.
- Hinge or Davit arm assembly available for quick opening of cover flange.
- Housings are made with Mirror, electro polishing to resist dirt and scale.
- One coat of epoxy paint applied on outside surface for CS / MS Constructed.
- Pressure gauge arrangement at top to monitor internal pressure of housing.
- Safety valve at inlet/out connection to reduce internal pressure if increase.
- Arrangement of difference pressure monitoring instruments.

## Design capability: -

- Customized Design available.
- suitable up to 30 Nos of Bag filter elements with suitable length of up to 32" in single housing.
- Bag filter element can be assembled with different type of collar such like PP collar bag, Snap bond collar bag, Steel ring collar bag, Rubber collar bag etc.
- Flow rate up to 1500 M<sup>3</sup>/Hr.
- **Mechanical Strength (ASME) Design Calculation on customer Request.**
- End connection up to ½" NPS to 24" NPS in Pipe schedule.

## Design Options: -

- Simplex Bag Filter Housing
- Multi Bag Filter Housing
- Duplex Bag Filter Housing
- Skid Base Design Type Bag Filter Housing

## Bag Filter Element: -

- 4" x 10" Long Filter Bag
- 4" x 17" Long Filter Bag
- 7" x 17" Long Filter Bag
- 7" x 32" Long Filter Bag
- Filtration Rating from 1 to 200 Micron
- Type of fitment collars: PP collar bag, Snap bond collar bag, Steel ring collar bag, Rubber collar bag
- Filter Media- Polypropylene (PP)



## Material of Construction (Housing Body): -

- SS 304
- SS 304L
- SS 316
- SS 316L
- Duplex Steel (SS 2205)
- Carbon Steel (SA 516 Gr 70)
- Mild Steel (IS 2062)
- CS/MS + Rubber lining
- CS/MS + FRP Lining

## Gasket Material: -

- Neoprene
- Natural Rubber
- Silicon
- Buna-N
- PTFE
- EPDM
- CAF
- Spiral Wound Gasket

## End Pipe Connections: -

- ANSI B16.5 Flanged.
- BS-10, Table D, E, F Flanged.
- Butt-Welded Pipe schedule.
- Tri Clover Adaptor
- Threaded
- Socket-welded

## Applications:

- Water Treatment
- Chemical
- Oil & Gas
- Pharma
- Paint & Ink
- Food Beverages
- Dairy
- RO Plant
- Petrochemical
- Process industries & any more



# BASKET STRAINERS

Being a renowned firm, we are offering broad range of **Basket Strainers**. We Design high quality Products with wide range of flow capacities **up to 2000 M<sup>3</sup>/Hr.**

Strainers are proposed for applications, wherever large amounts of solid contaminant particles are expected. Strainers are permitted to filter wide range of fluids and retain any size of solid contaminant particles. Basket element is manufactured from different type of wage wire or wire mesh with supported by perforated sheet to get proper strength to basket element for increasing contaminates holding capacities.

## Operation: -

This Product is ideally used to separate Solid contaminants Particles from liquid or gas. Contaminated fluid or gas is entered and distributed equally around the Basket Element and passed through Basket Element from outside to inside or inside to outside depended on customer requirements. And filtered liquid or gas exit from outlet connection. Solid elements are collected and removed easily from strainers. It is easy to maintain and clean in a reliable manner without making any extra efforts.

## Features:

- Easy dismantle for cleaning and maintenance.
- Eye Bolt type cover locking structure
- Less pressure drop design because of considering of higher filtration area.
- Suitable for high temperature and pressure.
- Suitable for large amount of solid contaminant particles
- High dirt holding capacity.
- Hinge or Davit pipe assembly available for quick opening of cover flange.
- Strainers are made with Mirror, electro polishing to resist dirt and scale.
- One coat of epoxy paint applied on outside surface for CS / MS Constructed.
- Pressure gauge arrangement at top to monitor internal pressure of Strainers.
- Safety valve at inlet/out connection to reduce internal pressure if increase.
- Arrangement of difference pressure monitoring instruments.

## Design capability: -

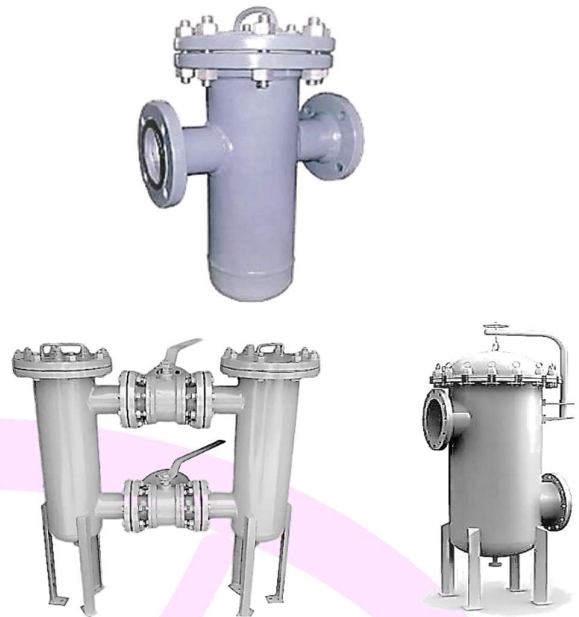
- Customized Design available.
- Designed Free flow area of basket 4-6 times higher than pipe cross section area.
- Flow rate up to 1500 M<sup>3</sup>/hr.
- **Mechanical Strength (ASME) Design Calculation on customer Request.**
- Designed suitable Flow direction in to out or out to in as per customer requirements.
- Multi basket elements in single strainer design available for easy cleaning and maintenance for high flow rate strainers.
- End connection up to ½" NPS to 24" NPS Pipe schedule.

## Design Options: -

- Simplex Basket Strainers
- Duplex Basket Strainers
- Cross Design Type Basket Strainers

## Basket Element: -

- Filter Media- Wire Mesh + Perforated sheet, Perforated Sheet, Wage-Wire
- Filtration rating up to 500 Mesh (up to 20 Micron)
- Material of construction SS 304, SS 304L, SS316, SS316L
- Diameter of basket strainer min. 100 mm to max. customized.



## Material of Construction (Strainer body): -

- SS 304
- SS 304L
- SS 316
- SS 316L
- Duplex Steel (SS 2205)
- Carbon Steel (SA 516 Gr 70)
- Mild Steel (IS 2062)
- CS/MS + Rubber lining.
- CS/MS + FRP Lining.

## Gasket Material: -

- Neoprene
- Natural Rubber
- Silicon
- Buna-N
- PTFE
- EPDM
- CAF
- Spiral Wound Gasket

## End Pipe Connections: -

- ANSI B16.5 Flanged.
- BS-10, Table D, E, F Flanged.
- Butt-Welded Pipe schedule.
- Tri Clover Adaptor
- Threaded
- Socket-welded

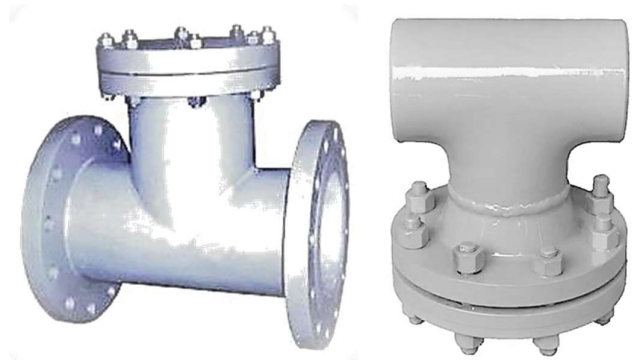
## Applications:

- Water Treatment
- Chemical
- Oil & Gas
- Power-plant
- Textile
- Cement Plant
- Fertilizers
- Refineries
- Petrochemical
- Process industries & any more

# T-TYPE STRAINERS

Being a well-known firm, we are offering unique assortment of **T-Type Strainers**. We offer quality Products with wide range of Pipe size **up to 48"** usually made from Standard schedules pipe or plate. Generally, it is used to protect of pumps, turbines etc. from solid particles during process.

Strainers are proposed for applications, wherever large amounts of solid contaminant particles are expected in pipeline. It is provided a large filtration area with very low cost. Ideally, T-type strainers are used for coarse filtration, wherever required. It can be assembled in vertical and horizontal pipeline as customer design requirement. It is permitted to filter wide range of fluids and retain any size of solid contaminant particles. Filter element is made from different type of wire mesh with supported by perforated sheet to get proper strength to Filter element.



## Operation: -

This Product is ideally used to separate Solid contaminants Particles from liquid or gas. Contaminated fluid or gas is entered from inlet connection and passed through Filter Element and exit from outlet connection. Solid contaminant elements are collected at inlet side and removed easily from strainers. It is easy to maintain and clean in a reliable manner without making any extra efforts.

## Features:

- Customized Design available.
- Design option available for outlet connection 180 Deg. Or 90 Deg. From inlet connection on customer Request.
- End connection up to 1" NPS to 48" NPS in Pipe schedule.
- Easy dismantle for cleaning and maintenance.
- Strainer is permanently piped in pipeline.
- Suitable for high temperature and pressure.
- Suitable for large amount of solid contaminant particles
- Hinge assembly available for quick opening of cover flange.
- Strainers are made with Mirror, electro polishing to resist dirt and scale.
- One coat of epoxy paint applied on outside surface for CS / MS Constructed.
- Pressure gauge arrangement at top to monitor internal pressure of Strainers.

## Design Options: -

- Fabricated T-Type Strainers
- Forged T-Type Strainers

## Filter Element: -

- Filter Media- Wire Mesh + Perforated sheet, Perforated Sheet
- Filtration rating up to 500 Mesh (up to 20 Micron)
- Material of construction SS 304, SS 304L, SS316, SS316L

## Material of Construction (Strainer Body): -

- SS 304
- SS 304L
- SS 316
- SS 316L
- Carbon Steel (SA 516 Gr 70)
- Mild Steel (IS 2062)

## Gasket Material: -

- Neoprene
- Natural Rubber
- Silicon
- Buna-N
- PTFE
- EPDM

## End Pipe Connections: -

- ANSI B16.5 Flanged.
- BS-10, Table D, E, F Flanged.
- Butt-Welded Pipe schedule.
- Threaded
- Socket-ended

## Applications:

- Water Treatment
- Chemical
- Oil & Gas
- Power-plant
- Textile
- Cement Plant
- Fertilizers
- Refineries
- Petrochemical
- Process industries & any more

# Y-TYPE STRAINERS

Being a well-known firm, we are offering unique variety of **Y-Type Strainers**. We are offered quality Products with wide range of Pipe size **up to 24"** usually made from Standard schedules pipe or plate. Generally, it is used to protect of pumps, instruments, Firefighting lines etc. from solid particles during process.

Strainers are proposed for applications, wherever large amounts of solid contaminant particles are expected in pipeline. It is most economical choice for removing of contaminant particles. Ideally, Y-type strainers are used for coarse filtration, wherever required. It can be assembled in vertical and horizontal pipeline as customer design requirement. Filter element is made from different type of wire mesh with supported by perforated sheet to get proper strength to filter element.

## Operation: -

This Product is ideally used to separate Solid contaminants Particles from liquid or gas. Contaminated fluid or gas is entered and distributed equally around the filter element and passed through filter Element from inside to outside. Solid particles are collected from inside of element. And filtered Fluid or gas exit from outlet connection. It is easy to maintain and clean in a reliable manner without making any extra efforts.

## Features:

- Customized Design Available
- End connection up to 1" NPS to 24" NPS in Pipe schedule.
- Easy dismantle for cleaning and maintenance.
- Strainer is permanently piped in pipeline.
- Suitable for high temperature and pressure.
- Suitable for large amount of solid contaminant particles
- Hinge assembly available for quick opening of cover flange.
- Strainers are made with Mirror, electro polishing to resist dirt and scale.
- One coat of epoxy paint applied on outside surface for CS / MS Constructed.
- Pressure gauge arrangement at top to monitor internal pressure of Strainers.

## Filter Element: -

- Filter Media- Wire Mesh + Perforated sheet, Perforated Sheet
- Filtration rating up to 500 Mesh (up to 20 Micron)
- Material of construction SS 304, SS 304L, SS316, SS316L

## Material of Construction: -

- SS 304
- SS 304L
- SS 316
- SS 316L
- Carbon Steel (SA 516 Gr 70)
- Mild Steel (IS 2062)

## Gasket Material: -

- Neoprene
- Natural Rubber
- Silicon
- Buna-N
- PTFE
- EPDM
- CAF
- Spiral Wound Gasket



## End Pipe Connections: -

- ANSI B16.5 Flanged.
- BS-10, Table D, E, F Flanged.
- Butt-Welded Pipe schedule.
- Threaded
- Socket-ended

## Applications:

- Water Treatment
- Chemical
- Oil & Gas
- Power-plant
- Textile
- Cement Plant
- Fertilizers
- Refineries
- Petrochemical
- Process industries & any more

# STORAGE TANKS

Being a well-known firm, we are offering broad range of **Storage Tanks** with fully customized as per client specification and requirements. It is manufactured with modern techniques and designed. Our product withstands various type of pressure and temperature and designs for corrosion resistant applicable. We Design high quality Products with wide range of storage capacities **up to 70,000 Liters**.

Storage Tanks is purposed for application, wherever liquid or Gas is required to store for time being before use in all kind of process industries. It is designed in many configurations depending upon their applicable such as operating pressure, temperature, storage medium, mounting locations etc.

## Features:

- Easy dismantle for cleaning and maintenance.
- Suitable for high temperature and pressure.
- Suitable for Storage large amount of liquid or Gas.
- Corrosion resistant materials are used against different chemicals.
- Hinge or Davit pipe assembly available for man-way connection.
- Supports mounting arrangement option available like Leg Supports, Saddle Supports, Bracket Supports etc.
- Offer PU wheel leg supports arrangement for easy moving from one location to another location.
- Provide agitator mounting arrangement at top to mix with another chemical
- tanks are made with Mirror, electro polishing to resist dirt and scale.
- Pressure gauge arrangement at top to monitor internal pressure of storage tanks.
- Safety valve at inlet/out connection to reduce internal pressure if increase.

## Design & Manufacturing capability: -

- Customized Design available.
- Storage Capacities up to 70,000 Liters.
- Diameter of storage tank up to 3000 mm & Length up to 10,000 mm (10 mtr.)
- Plate thickness of storage tank up to 25 mm.
- **Mechanical Strength (ASME) Design Calculation on customer Request.**
- Nozzle connection up to ½" NPS to 24" NPS in Pipe schedule.

## Design Options: -

- Carbon Steel Storage Tanks
- Stainless Steel Jacketed Storage Tanks
- Stainless Steel Non-Jacketed Storage Tanks

## Shape of Storage Tanks: -

- Horizontal Storage Tanks
- Vertical Storage Tanks
- Dished end Shape Storage Tanks
- Flat end Shape Storage Tanks
- Conical end Shape Storage Tanks

## Material of Construction:

- SS 304
- SS 304L
- SS 316
- SS 316L
- SS 321
- Duplex Steel – SS 2205



## Nozzle / Pipe Connections: -

- ANSI B16.5 Flanged.
- BS-10, Table D, E, F Flanged.
- Butt-Welded Pipe schedule.
- Tri Clover Adaptor
- Threaded
- Socket-welded

## Applications:

- Chemical
- Pharma
- Dairy products
- Food industries
- Process industries & any more



# PRESSURE VESSELS

Being a well-known Organization, we are presenting wide range of **Pressure Vessels** with fully customized as per client specification and requirements. It is horizontal constructed designed to mount on saddle supports at various location like on floor, on structure, on building etc.

Pressure vessels are containers designed to hold gases or liquids at a difference type of pressure and temperature. Manufacturing methods and materials of pressure vessels are depended on size of vessels, the contents, working pressure & Temperature and mounting locations etc. It is designed in many configurations depending upon customer requirement and design parameter.

Our Products meet requirements of nation & international standard and codes for design and fabrication. It manufactures by our trained professionals, who have expertise in manufacturing process & sequence, inspection and testing of products to ensure fill-full of client requirements. We prepare and submit Detail's **manufacturing drawings** to client base on client input design parameters, if required.

We have qualified **WPS, PQR and WPQ** in various type of materials, Thickness, Welding Process and other variable under witnessed and certified by reputed Third Party inspection (TPI) agencies. Welders can be qualified in presence of client representative or Third-Party inspection agencies, if client required.

Our products and their components pass through many quality parameters like vendor end inspection, material testing, in-coming and stage-wise inspection, Final Dimension & Visual inspection, NDT Examination, Leak Testing, Hardness, Positive material identification etc. in presence of client representative or Third-Party inspection agencies.

## Design & Manufacturing capability: -

- Customized Design available.
- Mechanical Strength Design Calculation as per ASME Section VIII, Division 1 on customer Request.
- Prepare Detail's manufacturing drawings base on client input design parameters.
- Diameter of vessels up to 3000 mm & Length up to 10,000 mm (10 mtr.)
- Plate thickness of Vessels up to 38 mm.

## Design Options: -

- Vertical Design Type Pressure Vessels
- Horizontal Design Type Pressure Vessels

## Material of Construction: -

- SS 304 / SS 304L
- SS 316 / SS 316L
- SS 321
- Duplex Steel (SS 2205)
- Carbon Steel (SA 516 Gr 70)
- Alloy Steel for low and High Temperature services

## Welding Technology: -

- SMAW (Shielded Metal Arc Welding)
- GTAW (Gas Tungsten Arc Welding)

## Applicable Destructive Testing: -

- Chemical Analysis
- Mechanical (Tensile) Testing
- Bend Testing
- Charpy Impact Testing



## Applicable Non-Destructive Testing: -

- Visual Inspection (VT)
- Liquid Penetrant Testing (DPT)
- Magnetic Particle Testing (MPT)
- Ultrasonic Testing (UT)
- Radiography Testing (RT)
- Positive Material Identification (PMI)
- Hardness Testing (HT)
- Pneumatic Testing
- Hydrostatic Testing

## Applications:

- Oil & Gas
- Petrochemical
- Refineries
- Fertilizers
- Chemical plants
- Power-plant
- Cement Plant
- Process industries & any more



**MISHU ENGINEERING CO.**

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