

# Fabri-Tek | Product Catalogue

Flow measurement, steam engineering,  
process equipment and fabrication.

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## 20 product entries

Descriptions, manufacturing ranges, materials, features and technical illustrations from the Fabri-Tek website.

Compiled from fabritekindia.com on 7 September 2026. This document is a website-content compilation, not an original company brochure. Source wording and published specifications are retained.

# Products overview

Select a product to jump to its entry. Product sections retain the original website content and imagery.

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## PRIMARY FLOW ELEMENTS

# Orifice Plates & Meter Runs

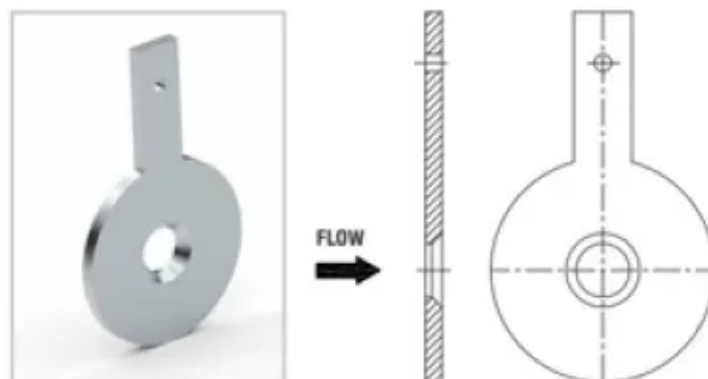
<https://fabritekindia.com/products/orifice-plate-manufacturer/>

## DESCRIPTION

An orifice plate is a thin plate with a hole in the middle. It is usually placed in a pipe in which fluid flows. When the fluid reaches the orifice plate, with the hole in the middle, the fluid is forced to converge to go through the small hole; the point of maximum convergence actually occurs shortly downstream of the physical orifice, at the so-called vena contracta point.



As it does so, the velocity and the pressure changes. Beyond the vena contracta, the fluid expands and the velocity and pressure change once again. By measuring the difference in fluid pressure between the normal pipe section and at some specific point after orifice plate, the volumetric and mass flow rates can be obtained from Bernoulli's equation. We are specialised Orifice Plate Manufacturer.

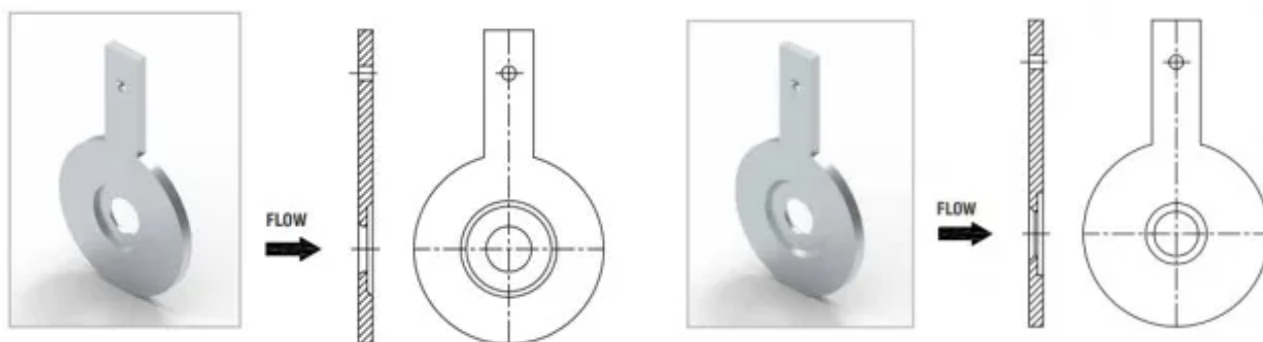


## CONCENTRIC ORIFICE PLATES

These are most commonly used for flow measurement. This has special features such as simple structures, high accuracy, and ease of installation and replacement. These plates are recommended for clean liquids, gases & steam flow, when the Reynold number ranges from 10000 to  $10^7$ .

## QUADRANT EDGE ORIFICE PLATE

The inlet edge of the bore of this orifice plate is rounded to a quarter circle. This orifice plate is usually used for viscous fluids & Reynolds number between 1500 & 10000.

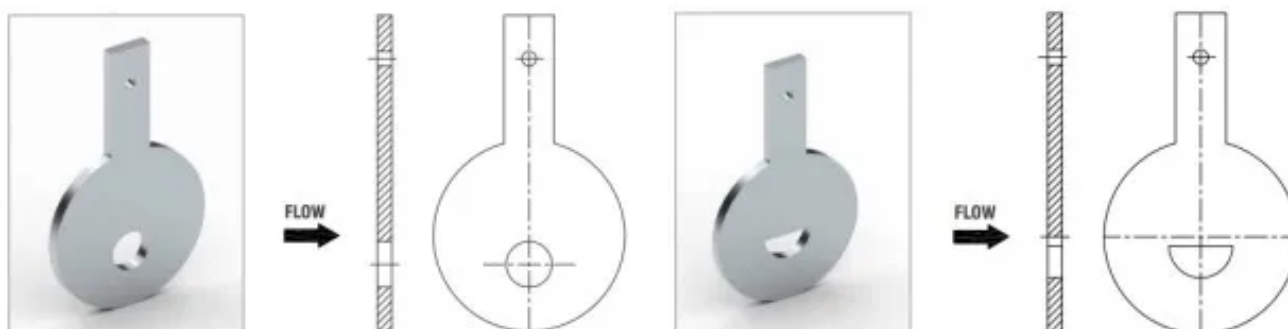


### CONICAL ENTERANCE ORIFICE PLATE

The inlet edge of bore of this plate is conical in shape. This plate is used for highly viscous fluids with Reynold's number 80 to 1500.

### ECCENTRIC ORIFICE PLATE

For liquids containing solid particles that are likely to sediment or for vapors likely to deposit water condensate, this orifice plate is used with its eccentric bore bottom flush with the bottom of the piping inside surface so that the sedimentation of such inclusions are avoided. Likewise, for gases or vapors, it may be installed with its eccentric bore top flush with the ID of the piping to avoid stay of gas or vapor in its vicinity.



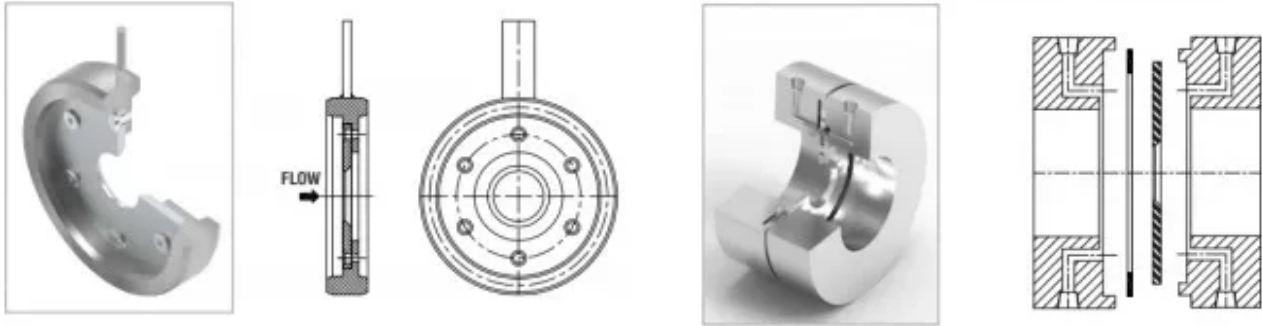
### SEGMENTAL ORIFICE PLATE

Segmental orifice plates are most useful where there are substantial entrained water or air and also if there are suspension in the fluids. This avoids build up in front of the orifice plate. The orifice hole is placed at the bottom for gas service and top for liquids.

### ORIFICE WITH RTJ HOLDER

RTJ holder with plate is used when the orifice plate is used at high pressure & high temperature. When normal gaskets cannot be used due to more pressure-temperature, RTJ gaskets are used for leak prevention.

These are available in oval or octal shapes. The Orifice Plate is Universal type and fitted on the RTJ holder with the help of screws. The RTJ holder material is selected such that it will be softer than the flange. The plate material will be as per process requirement.



## ORIFICE PLATE WITH CARRIER RING

Carrier ring type construction is used facilitate pressure taps, when it is not possible to drill taps on flanges. This construction is used below 2" line size, but not restricted. Carrier ring can be Male-Female type OR one piece construction. Single piece construction is chosen when direct mounting of DPT is required. Also for bigger sizes, single piece carrier is more cost effective.

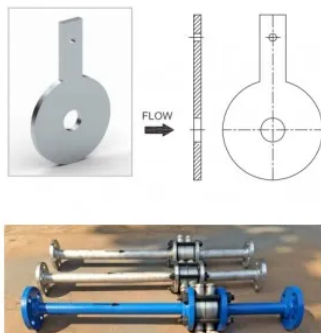
## RESTRICTION ORIFICE PLATE

### SINGLE STAGE

The restriction orifice plates are used for reducing fluid pressure. When the required pressure is dropped with only one plate, it is called as single stage restriction. This plate is similar to the Square edged Concentric plate, except that the bevel is not provided for restriction orifice. Since the purpose to drop the pressure & not to reduce pressure loss. The plate thickness is calculated based on the required pressure drop across the plate.

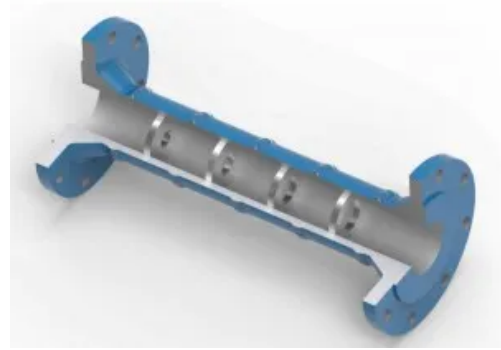
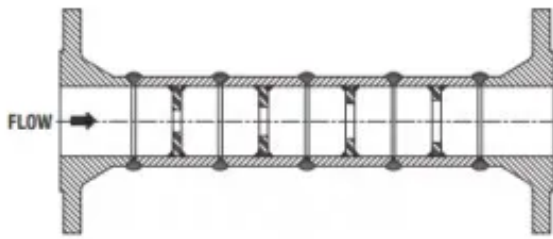
## TECHNICAL SPECIFICATION

- Size of PIPE & Schedule.
- Size of Flange/Type/Rating/Schedule/Standard.
- Gasket: CAF / SS Spiral Wound + CAF / PTFE / PVC / Rubber, Other materials as per special request.
- Stud / Nut: ASTM A193 Gr. B7/ASTM A194 Gr.2H, B7M/2HM, A193 B16/A194 Gr. 4
- Design Standards: ISO 5167/ BS 1042 / RW Miller / ISO TR-15377.
- Flanges: ANSI B-16.36/B16.5/AWWA/ASME B16.47/ IS 6392 / BS 10 etc.
- Orifice Plate Types: Square edge concentric, Quadrant edges, Conical entrance, Eccentric, segmental, Restriction.
- Pressure Tappings: Flange Taps / Corner Taps / Radius taps



## Materials

- Flanges: Carbon Steel, Low Temperature Carbon Steel, Chrome Moly Steels, Stainless Steel, Duplex, Super Duplex, 6 Mo, Monel, Hastelloy, Incolloy 825, PVC, PP, PVDF.
- Orifice Plate: Stainless Steel, Duplex, Super Duplex, Monel, Hastelloy, Inconel etc.



## MULTISTAGE RESTRICTION ORIFICE PLATE ASSEMBLY

This is the next version of single stage restriction orifice plate. When the pressure is dropped across the orifice plate, the velocity is increased by large.

For gas service, when the drop is nearer to 50% or more, this velocity approaches the velocity of sound or becomes more than that of sound velocity. The point at which the velocity is equal to the sound velocity, is called as Sonic condition.

The sonic condition is not favourable for process line, since it creates noise & vibrations. Also more velocity causes erosion of plate bore.

To avoid all these, the pressure is dropped in number of plates arranged in series. The assembly of all these plates combined, is called as multistage restriction orifice plate assembly.

For liquid service, sonic condition is replaced by cavitation/flashings phenomenon. When the pressure line falls below the vapour pressure of the fluid, cavitation starts. The cavitation is harmful for the piping and instruments fitted after the orifice plate.

For liquids, the deciding factor for the requirement of multistage is cavitation index. To avoid cavitation, the index is maintained below 2. i.e. the pressure is dropped in such a way that the cavitation index for each plate is below 2.

For constriction of MSA, the orifice plate suitable for mounting inside the pipe, are arranged in series. The distance between two plates is maintained equal to 1D i.e. 1 pipe ID. The complete assembly with no. of required stages welded inside the pipe, is called as Multistage Restriction Orifice plate assembly.

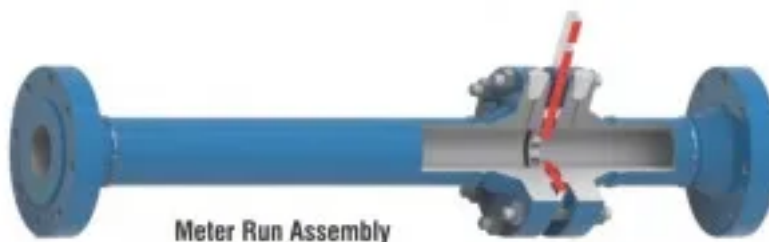
The end connection can be either BWE or Flanged, depending upon the requirement.

The selection of multistage depends upon the application or location where the pressure reduction is desired. If the application is venting in atmosphere, exhaust to flare tank etc. then the increased noise level is also acceptable. In that case multistage is not selected.

The multistage can be supplied with IBR certifications, whenever required. Also NDT testing like Radiography, DPT can be done as required.

## ORIFICE PLATE WITH METER RUN

When the orifice plate assembly is supplied with piping spool on upstream & downstream, the complete assembly is called as Meter run Assembly. The orifice assembly can be any one type as defined in earlier pages.



Meter Runs are supplied as a complete unit to ensure the necessary straight pipe lengths are available for the maximum accuracy. They can be supplied with temperature tapping if required. For gas application where maximum accuracy is desired the meter run is supplied with flow straightner with honed pipe at inlet side as per AGA standard.

Carrier ring type meter run is used where the tapping on flange is to be avoided or not possible. e.g. with PVC/PP flanges.

- Standard Lengths 1000 mm. Other lengths on request.
- Standard Tappings 1/2" NPT female (two nos. per flange) others on request.



## INTEGRAL METER RUN ASSMBLY

This type of assembly is specially constructed for direct mounting of DP transmitter. The maximum size available for this type is 1.5". For the construction of this, specially designed integral blocks are used, the shape of which is made suitable for DPT mounting. The plate is made to suit the integral blocks. Integral MRA uses a corner tapping arrangement, hence the accuracy is better than the conventional type meter run. Additionally, this arrangement reduces the losses through leakage, since there are no leakage points. But, as the DPT is mounted directly on the meter run, this can be used upto 120deg maximum only.

- Sizes available: 1/2" to 1.5"
- Materials available: CS, SS304, SS316
- Pressure rating: up to 600#

## PRIMARY FLOW ELEMENTS

# Machined Type Venturi

<https://fabritekindia.com/products/machined-type-venturi/>

## DESCRIPTION

The name of this product is derived from the venturi effect which states that, the fluid pressure is reduced when the fluid passes through the constricted section of pipe.

Venturi tube can be divided into 04 sections namely

- Inlet cylinder
- Inlet cone or convergent cone
- Throat
- Outlet cone or divergent cone

All these sections when connected together, forms venturi flow meter.

Venturi tubes gives accurate measurement of non-viscous fluids in clean as-well-as dirty fluids, manufactured strictly in accordance with ISO-5167, ASME MFC- 3M, BS-1042 etc. For critical measurement applications, wet calibration at reputed flow laboratories can be offered.

The unique geometry of venturi provides a smooth entry as well as smooth exit for the fluid. This causes a less pressure drop across the venturi i.e. the differential pressure is less. Low DP means low permanent pressure loss. Venturi can be used for a wide variety of applications that include air, water, vapor, steam, gas, chemical substances, sludge and slurry applications. Since divergent cone is provided at outlet of venturi, the pressure recovery is very good. Thus it reduces operating costs and also reduces straight length requirement.

Typically the convergent angle is fixed to 21°. Divergent angle can be varied between 7°- 15° without any effect on the pressure loss and discharge coefficient.

Venturi tube is also referred as Classical venturi or Harshell venturi.

## CLASSIFICATION

Venturi tube is broadly classified as truncated or Non truncated venturi.

The venturi is called as Truncated when the outlet cone diameter of the venturi is less than the pipe dimension. When the same is equal to the pipe diameter venturi is called as non truncated type venturi.

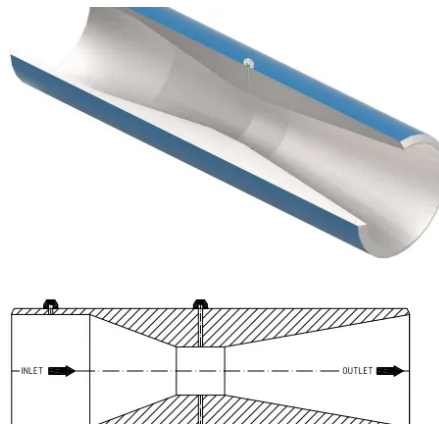
The divergent cone can be truncated about 35% of its length without affecting the discharge coefficient.

Further the venturi is classified in 3 basic types, as given below:

- MACHINED TYPE
- FABRICATED TYPE
- AS CAST TYPE

## SALIENT FEATURES

- Specifically useful for low pressure and low pressure drop area.
- Can be used for fluids containing dust or suspended particles.
- Short upstream and downstream length required.
- Low permanent pressure loss & high pressure recovery



### MACHINED TYPE VENTURI

Machined venturi is manufactured by machining the required profile from a solid forged bar. The sizing and dimensional guidelines are mentioned in ISO-5167 part IV.

Depending upon the customer requirement, the end connection can be either BWE or Flanged.

- Size limits  $\gg 50$  mm to 250 mm.
- Uncertainty in discharge coefficient  $\gg \pm 1\%$
- $ReD \gg 2 \times 10^5$  to  $1 \times 10^6$
- $\beta \gg 0.4$  to 0.75

Materials: The venturi can be supplied in any material including plastics. The materials generally used are SA105, SA182F316/L, SA182F304/L, Inconel, Duplex SS, Monel etc.

Venturi upstream pressure tap is located at the mid of inlet cylinder & the downstream pressure tap is located at midpoint of the throat.

When averaging is required, the pressure tapping can be taken through piezometric ring or also called as annular ring. This can be manufactured from forging or can even be fabricated from rolling the pipes, as per requirement.

## PRIMARY FLOW ELEMENTS

# Fabricated Type Venturi

<https://fabritekindia.com/products/fabricated-type-venturi/>

## DESCRIPTION

The name of this product is derived from the venturi effect which states that, the fluid pressure is reduced when the fluid passes through the constricted section of pipe.

Venturi tube can be divided into 04 sections namely

- Inlet cylinder
- Inlet cone or convergent cone
- Throat
- Outlet cone or divergent cone

All these sections when connected together, forms venturi flow meter.

Venturi tubes gives accurate measurement of non-viscous fluids in clean as-well-as dirty fluids, manufactured strictly in accordance with ISO-5167, ASME MFC- 3M, BS-1042 etc. For critical measurement applications, wet calibration at reputed flow laboratories can be offered.

The unique geometry of venturi provides a smooth entry as well as smooth exit for the fluid. This causes a less pressure drop across the venturi i.e. the differential pressure is less. Low DP means low permanent pressure loss. Venturi can be used for a wide variety of applications that include air, water, vapor, steam, gas, chemical substances, sludge and slurry applications. Since divergent cone is provided at outlet of venturi, the pressure recovery is very good. Thus it reduces operating costs and also reduces straight length requirement.

Typically the convergent angle is fixed to 21°. Divergent angle can be varied between 7°- 15° without any effect on the pressure loss and discharge coefficient.

Venturi tube is also referred as Classical venturi or Harshell venturi.

## CLASSIFICATION

Venturi tube is broadly classified as truncated or Non truncated venturi.

The venturi is called as Truncated when the outlet cone diameter of the venturi is less than the pipe dimension. When the same is equal to the pipe diameter venturi is called as non truncated type venturi.

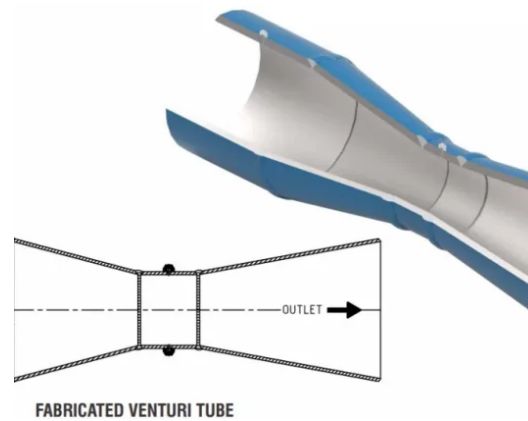
The divergent cone can be truncated about 35% of its length without affecting the discharge coefficient.

Further the venturi is classified in 3 basic types, as given below:

- MACHINED TYPE
- FABRICATED TYPE
- AS CAST TYPE

## SALIENT FEATURES

- Specifically useful for low pressure and low pressure drop area.
- Can be used for fluids containing dust or suspended particles.
- Short upstream and downstream length required.
- Low permanent pressure loss & high pressure recovery



### FABRICATED TYPE VENTURI

This type of venturi is manufactured by bending the sheets into required profile & joining them together.

This type of venturi, is manufactured in different sections named above and then joined together to form a fabricated venturi.

Depending upon the customer requirement, the venturi can be supplied in BWE or flanged end connection. For bigger sizes, since the length increases, venturi can be supplied in truncated form.

- Size limits  $\gg 250$  mm to 1200 mm.
- Uncertainty in discharge coefficient  $\gg \pm 1.5\%$
- $ReD \gg 2 \times 10^5$  to  $2 \times 10^6$
- $\beta \gg 0.4$  to 0.7

The basic raw material for this type is in the form of plates / sheets. Generally used material grades can be listed as follows:

- Carbon steel IS2062, SA516Gr. 60/70.
- Stainless Steel SA240Gr. 316, SA240Gr. 304, etc.

(Other materials are also available on request).

When averaging is required, the pressure tapping can be taken through piezometric ring or also called as annular ring.

The ring is fabricated from channel or pipe as per requirement.

## PRIMARY FLOW ELEMENTS

# ISA 1932 Type Nozzle

<https://fabritekindia.com/products/isa-1932-type-nozzle/>

## DESCRIPTION

FEPL's flow nozzle is a flow measurement device which used for measurement of high velocity flow, such as high pressure steam. It can also be used with other fluids such as water, air or other gases.

The typical profile of this device offers a smooth passage to the fluid which leads to the lesser pressure drop and thus more efficiency.

The rounded profile is particularly useful when the steam contains particles which damage the edges of the flow element which doesn't happen due to the smooth profile. Thus the product life is increased.

## SALIENT FEATURES

- Best suitable for measurement of high pressure high temperature high velocity steam measurement.
- Smooth profile and rigid structure makes the assembly extremely stable.
- Free from leakage (when provided in weldin type assembly).
- Zero maintenance since no moving parts.
- Repeatability: 0.3%
- Less straight lengths requirement.

## DESIGN & MANUFACTURING STANDARD

- ISO-5167 part III
- ASME PTC-19.5
- ASME PTC-6

## CLASSIFICATION

The flow nozzle can be classified as follows

### BASED ON ELEMENT

- Long Radius High Beta
- Long Radius Low beta
- ISA 1932

### BASED ON MOUNTING

- Welding type
- Flanged type
- Holding ring type

### BASED IN APPLICATIONS

- Used in high accuracy area of turbine steam flow measurement Flanged type with throat tap nozzle (as per PTC-6 standard) with accuracy in a tune of 0.25%.

## MATERIALS

Selection based on temperature and process conditions.

Typically used materials are:

- Element: SA.182 F316/ SA182 F11 / SA182 F22 / SA182 F91

- Pipe: SA.106Gr. B / SA335 P11 / SA335 P22 / SA.335P91
- Flange material: SA105 / SA182F11 / SA182F22 / SA182 F91

### ISA 1932 TYPE NOZZLE

The profile of this type of nozzle is formed with the intersection of 2 circles. This gives an estimated uncertainty of 0.8% to 1.2%, depending on the beta ratio.

- Size limits: 50 mm to 500 mm
- Beta Ratio: 0.3 to 0.8

Reynold's Number:

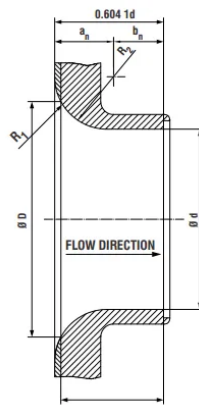
- For beta 0.3 to 0.44  $\gg 7 \times 10^4$  to  $10^7$
- For beta 0.44 to 0.8  $\gg 2 \times 10^4$  to  $10^7$

Pressure tapping:

- Upstream tap  $\gg$  Corner tap
- Downstream tap  $\gg$  @ 0.15D for beta  $< 0.67$
- Downstream tap  $\gg$  @ 0.2D for beta  $> 0.67$

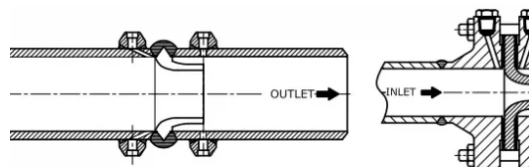
OR

- Downstream tap  $\gg$  corner tap



A Welding type assembly typically with a pipe length 750 mm on upstream side and 250 mm on downstream side. Flanged type assembly can be supplied with or without spool piece as per requirement.

This can be offered in all the 03 mounting classifications. But this has certain manufacturing limitations to use with weldin type, when the line size is small.



ISA 1932, Weldin Type:

Flow Nozzle Mounted B



## PRIMARY FLOW ELEMENTS

# Long Radius Flow Nozzles

<https://fabritekindia.com/products/long-radius-low-beta-type-nozzle/>

## DESCRIPTION

FEPL's flow nozzle is a flow measurement device which used for measurement of high velocity flow, such as high pressure steam. It can also be used with other fluids such as water, air or other gases.

The typical profile of this device offers a smooth passage to the fluid which leads to the lesser pressure drop and thus more efficiency.

The rounded profile is particularly useful when the steam contains particles which damage the edges of the flow element which doesn't happen due to the smooth profile. Thus the product life is increased.

## SALIENT FEATURES

- Best suitable for measurement of high pressure high temperature high velocity steam measurement.
- Smooth profile and rigid structure makes the assembly extremely stable.
- Free from leakage (when provided in weldin type assembly).
- Zero maintenance since no moving parts.
- Repeatability: 0.3%
- Less straight lengths requirement.

## DESIGN & MANUFACTURING STANDARD

- ISO-5167 part III
- ASME PTC-19.5
- ASME PTC-6

## CLASSIFICATION

The flow nozzle can be classified as follows

### BASED ON ELEMENT

- Long Radius High Beta
- Long Radius Low beta
- ISA 1932

### BASED ON MOUNTING

- Welding type
- Flanged type
- Holding ring type

### BASED IN APPLICATIONS

- Used in high accuracy area of turbine steam flow measurement Flanged type with throat tap nozzle (as per PTC-6 standard) with accuracy in a tune of 0.25%.

## MATERIALS

Selection based on temperature and process conditions. Typically used materials are:

- Element: SA.182 F316/ SA182 F11 / SA182 F22 / SA182 F91
- Pipe: SA.106Gr. B / SA335 P11 / SA335 P22 / SA.335P91

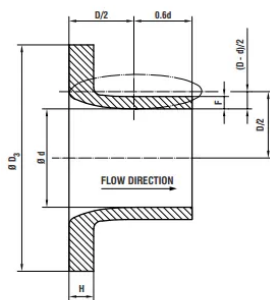
- Flange material: SA105 / SA182F11 / SA182F22 / SA182 F91

### LONG RADIUS HIGH BETA TYPE NOZZLE

This type of nozzle uses an elliptical profile. The quarter portion of the ellipse is used to form the nozzle profile. This is a commonly used nozzle type with an uncertainty of 2% irrespective of beta ratio. This can be offered in all the 03 mounting classifications.

- Size limits: 50 mm to 630 mm
- Beta Ratio: 0.2 to 0.8
- Reynold's Number:  $10^4$  to  $10^7$
- Pressure tapping: D - D/2

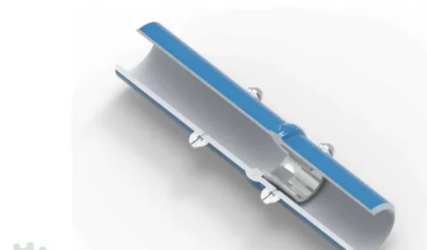
A Welding type assembly typically with a pipe length 750 mm on upstream side and 250 mm on downstream side. Flanged type assembly can be supplied with or without spool piece as per requirement



Long Radius High Beta



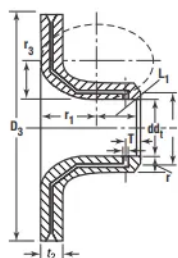
Long Radius High Beta, Weldin Type:



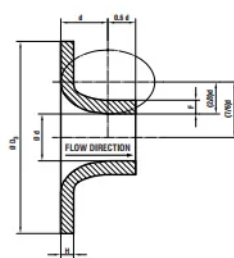
### LONG RADIUS LOW BETA TYPE NOZZLE

This type of nozzle also uses a quarter elliptical profiles. This type of nozzle is used for performance testing of turbines, as per PTC standard. When supplied with the typical assembly as per PTC-6, uncertainty is 0.25%.

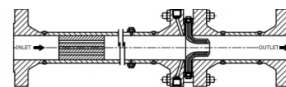
- Size limits: 50 mm to 630 mm
- Beta Ratio: 0.2 to 0.5
- Reynold's Number: 104 to 107
- Pressure tapping: Upstream tap @ D
- Downstream tap Throat tap (through element)



Long Radius Low Beta  
With Throat Tap



Long Radius Low Beta



Flanged Mounted With Throat Tap As Per PTC-6:



## PRIMARY FLOW ELEMENTS

# Aerofoil

<https://fabritekindia.com/products/aerofoil-manufacturers-india/>

## DESCRIPTION

Aerofoil is specially designed for flow measurement in square/rectangular duct. This is particularly useful for duct, since the other flow elements like orifice, flow nozzle, etc. cannot be used for duct flow measurement. We are specialised & expert for aerofoil manufacturers.

This consists of aerodynamic shaped foils, which offers a very little resistance to the fluid. The typical profile of Aerofoil, offers a smooth passage to the fluid which leads to the lesser pressure drop and thus more efficiency.



Aerofoil is supplied with flanged end, thus making the installation in the line, very easy.



## MANUFACTURING RANGE

- A smallest aerofoil which we offer is of 500 x 500 mm size.
- For maximum side we can offer any dimension, as per the duct sizes.

## MATERIALS

- Selection based on temperature and process conditions.
- Typically used materials is Carbon steel : IS 2061 Gr. A / B, SA516 Gr. 60/70.

## SALIENT FEATURES

- Best suited for duct piping.
- Generally used in a low pressure area.
- Typical application of aerofoil is with air or gas application.

- Restricted for viscous fluids, since it will block the pressure sensing ports of the device.
- Zero maintenance since no moving parts.
- Less straight lengths requirement.

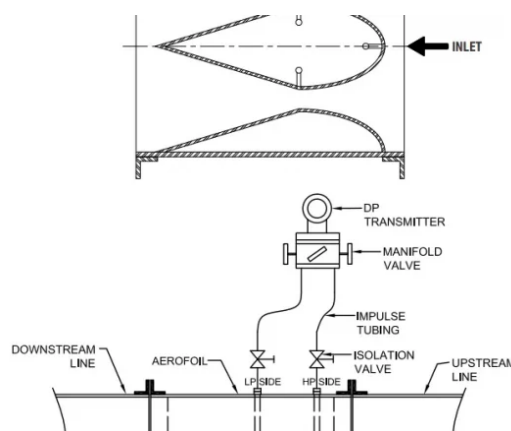
## AEROFOIL

Aerofoil works on the principle of relationship between the flow velocity & the pressure fields in the flow section.

Consist of no. of foils, 02 nos. as a standard practice. The shape of each foil is similar to the shape of aircraft wing.

During operation, the fluid is passed between the foils, creating the pressure drop. Pressure sensing ports are placed on the face and backside to sense the upstream & downstream pressure, respectively.

These ports are connected to a two separate header pipe, which then gives out the upstream & downstream pressure. The difference between these gives input for flow rate calculation.



For designing of aerofoil, for rectangular duct, the dimensions are transformed into a similar circular section and performed the sizing. The results are re-transformed back to rectangular dimensions.

Size limits: 500 x 500 mm minimum Beta Ratio: 0.2 to 0.8

Pressure tapping: Throat taps.

Supplied with flanged end held in the line with fasteners. The flange drilling can be customized.

## PRIMARY FLOW ELEMENTS

# Averaging Pitot Tube

<https://fabritekindia.com/products/averaging-pitot-tube-manufacturer-india/>

An averaging pitot tube (APT) is a multiport self-averaging flow meter with a design based on the classical Pitot tube concept of fluid flow measurement.

## SALIENT FEATURES

- Averaging Pitot Tube is suitable for clean liquid, gas flow measurement
- Accuracy  $\pm 2\%$  of actual flow rate
- Repeatability of measurement  $\pm 0.2\%$
- Flow rate turndown typically 4:1
- Short upstream and downstream straight pipe lengths
- Long term accuracy unaffected by wear
- Less pressure loss

## MODEL SPECIFICATION

- 1) FEPT -75R with Ferrule Fitting construction. (Sensor size : 25.4 mm)
- 2) FEPT-75 with flanged construction (Sensor size 25.4mm)
- 3) FEPT-75/76 with Flanged construction & End support (Sensor size: 25.4 mm)
- 4) FEPT-85 with Flanged construction (Sensor size: 57.3 mm)
- 5) FEPT-86 with Flanged construction & End support (Sensor size: 57.3 mm)

APT models with flanged end can be supplied with retract mechanism, whenever specified.



Available retract mechanism are :

- Manual Retract mechanism
- Retract mechanism with gear drive

## WORKING PRINCIPLE

Averaging Pitot Tube produces an averaged differential pressure (DP) proportional to the square of the flow rate. The DP output is normally piped to a Differential Pressure Transmitter in order to generate an electrical signal proportional to the flow rate.

For certain applications, the DP Transmitter can be directly mounted on to the APT via an integral 3-way valve manifold.

APT is designed to span the process pipe diameter and comprises four basic components:

- Outer impact tube
- Internal averaging tube
- Low-pressure chamber
- Head

The total pressures developed at each upstream hole by the impact of the flowing medium are firstly averaged within the outer impact tube and then to a second order (and more accurately) averaged within the internal averaging tube. This pressure is represented at the head as the high pressure component of the DP output.

The low-pressure component is generated from a single sensing hole located on the downstream side of the outer impact tube.

The outer impact tube has a number of pressure sensing holes facing upstream which are positioned at equal annular points in accordance with a log linear distribution.



APT is NOT suitable for the measurement of 2 phase fluids or when the fluid does not completely fill the cross section of the pipe.

## PROFILE SHAPE

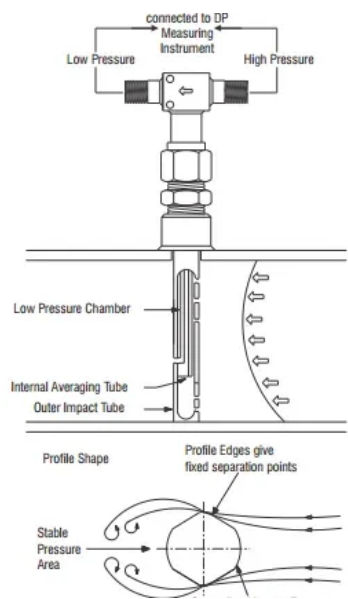
An APT has the unique diamond shaped profile enabling better separation point at which the flow lines “break-off” as the fluid passes around the outer impact tube. This feature creates a stable pressure area at the downstream pressure sensing hole thereby maintaining a more constant flow co-efficient K at high velocities enabling a very wide range of flow measurement (turndown).fluid which leads to the lesser pressure drop & thus more efficiency.

## INSTALLATION & LOCATION

Correct location of averaging pitot tube in the pipe line system is important in order to optimize performance. Flow that is disturbed by upstream configuration such as elbows, T's and valves may have an adverse effect on accuracy unless APT is located at recommended positions shown in below table.

Below figures illustrates the distance in multiples of pipe bore “D” between APT and the upstream and downstream disturbances. If an APT is fitted within disturbances less than those shown, then absolute accuracy may be downgraded but repeatability of measurement will still be achieved due to inherent averaging characteristics.

Where it is not possible to provide the specified distances and maximum accuracy is required, the use of a flow straightening spool piece allows for shorter distance.



Averaging pitot tube - installation and location

Recommended Upstream & Downstream Straight Length Distance:

| Minimum<br>Diameters of<br>Straight Pipe | Upstream Dimensions |                          |            |   |    | Downstream<br>Dimension |
|------------------------------------------|---------------------|--------------------------|------------|---|----|-------------------------|
|                                          | Without Vanes       |                          | With Vanes |   |    |                         |
|                                          | In<br>Plane<br>A    | Out<br>of<br>Plan<br>e A | A'         | C | C' |                         |
|                                          | 8                   | 10                       |            |   |    | 4                       |
|                                          |                     |                          | 8          | 4 | 4  |                         |
|                                          | 11                  | 16                       |            |   |    | 4                       |
|                                          |                     |                          | 8          | 4 | 4  |                         |
|                                          | 23                  | 28                       |            |   |    | 4                       |
|                                          |                     |                          | 8          | 4 | 4  |                         |

| Minimum<br>Diameters of<br>Straight Pipe                                            | Upstream Dimensions |                          |            |   |    | Downstream<br>Dimension<br><br>B |
|-------------------------------------------------------------------------------------|---------------------|--------------------------|------------|---|----|----------------------------------|
|                                                                                     | Without Vanes       |                          | With Vanes |   |    |                                  |
|                                                                                     | In<br>Plane<br>A    | Out<br>of<br>Plan<br>e A | A'         | C | C' |                                  |
|  | 12                  | 12                       |            |   |    | 4                                |
|  |                     |                          | 8          | 4 | 4  |                                  |
|  | 18                  | 18                       |            |   |    | 4                                |
|  |                     |                          | 8          | 4 | 4  |                                  |
|  | 30                  | 30                       |            |   |    | 4                                |
|  |                     |                          | 8          | 4 | 4  |                                  |

Averaging pitot tube - installation and location

## PRIMARY FLOW ELEMENTS

# Accessories

<https://fabritekindia.com/products/accessories/>

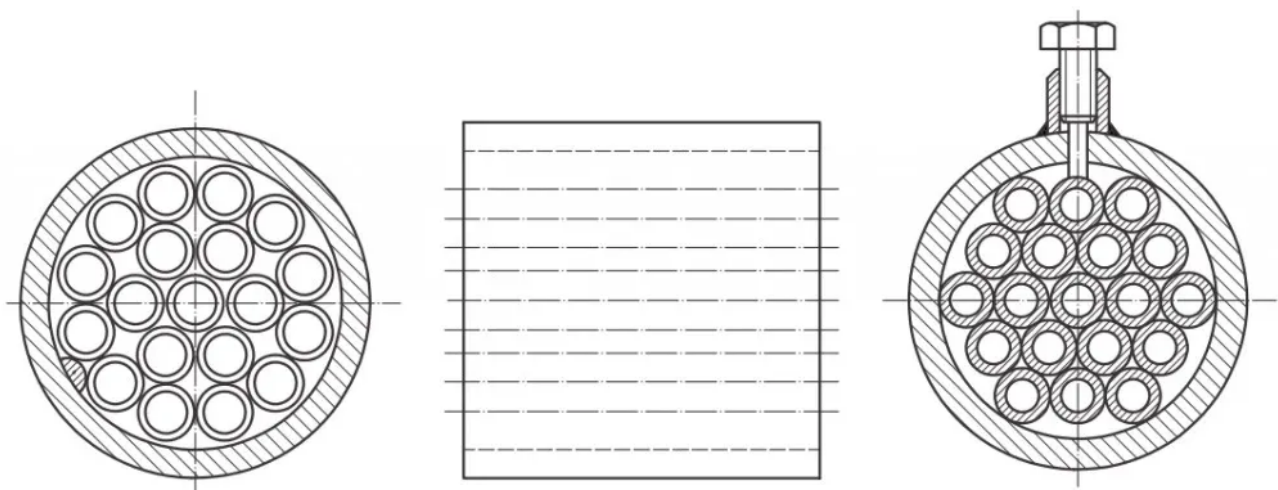
## FLOW CONDITIONER

In any industry the pipe line contains so many fittings, valves & so many obstructions. The fluid passing through the pipeline gets disturbed after passing through them. For measurement, such disturbed flow is not at all usable. The turbulence/swirl in the flow shall be reduced to acceptable limits before it passes through the instrument. The possible way to achieve this is to provide sufficient straight length or to install flow conditioner before the measuring instrument.



Flow straightener is a device which removes or significantly reduces swirl in the flow section, caused by various obstructions, fittings, valves etc.

Flow conditioner is a device which, in addition to meeting the requirement of removing or reducing the swirl, is designed to redistribute the velocity profile.



Tube bundle flow straightener

## TUBE BUNDLE FLOW STRAIGHTENER

Tube bundled flow straightener consists of bundle of parallel & tangential tubes fixed together & held rigidly in the pipe.

There should be atleast 19 tubes in a bundle.

The length of tubes shall be  $2D-3D$ , where  $D$  = pipe ID.

These tubes shall be joined together to make it an assembly & then inserted in the line

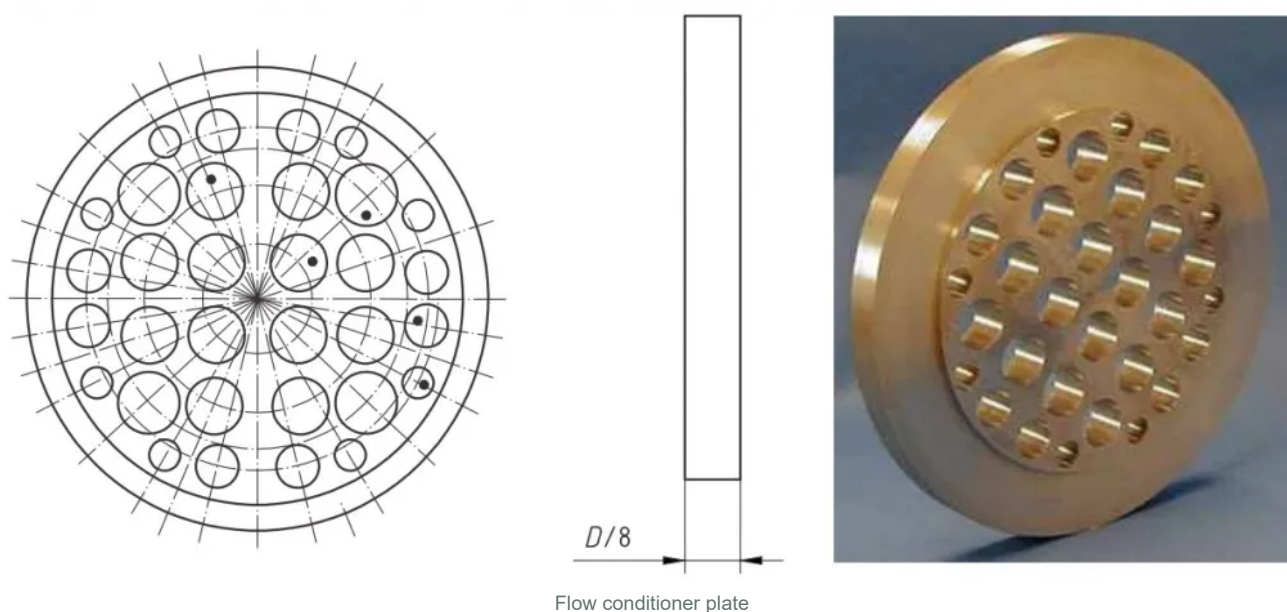
Depending upon the fitment in the line the bundle can be either suitable for mounting between flanges or welded in the pipe or fitted & held rigidly inside the pipe. While manufacturing the care shall be taken so that all the tubes are parallel & tangential, otherwise the tube bundle straightener itself will create swirl instead of reducing it.

The pressure loss coefficient ( $K$ ) for the straightener depends upon the number of tubes selected. Typically for 19 tube bundle straightener,  $K = 0.75$ .

## FLOW CONDITIONER PLATE

The flow conditioner plate is made up by making number of certain sized holes at PCD defined in ISO 5167.

The plate thickness of the plate shall be maintained between  $0.12D$  &  $0.15D$ . Preferably the thickness is maintained as  $D/8$ .



ZANKAR flow conditioner plate consists of 32 number of holes arranged in a symmetrical circular pattern. The diameter & the PCD are a function of pipe ID 'D'.

The pressure loss coefficient of ZANKAR flow conditioner plate is approximately = 3

The installation of flow straightner or flow conditioner shall be done on upstream of the flow measuring instrument. The distance to be maintained between the fitting & the flow instrument shall be as guided in ISO 5167

## CONDENSATE POT

Condensate pot & seal pot are the same based on the shape & construction. Based on the application, they are classified as mentioned under.

Condensate Pots are used to collect and accumulate condensate and extrinsic particles. Condensate chambers aid in protecting delicate instruments with smaller orifices from becoming damaged or clogged by foreign debris. The bottom connection is used as a drain port to remove condensate. Condensate chambers can also be used to cool very high temperature liquids.

Seal pots are used to provide a liquid seal between the process instrument and gases such as steam. Its function is to keep the liquid level constant in the impulse tubes (sensing lines), while preventing steam or corrosive liquids from reaching the instrument.

Condensate Chambers & Seal Pots are fabricated from seamless pipe. A variety of materials and wall thicknesses are available to meet a customer's design pressure and temperature.

### SPECIFICATIONS

- Size: 3: & 4"
- Pipe schedule : As per pressure & temperature of flowing fluid.
- Length: 300mm (as a standard practice)
- Pressure tapping: ½" NPT (F), 04 nos
- Material: Pipe: SA106Gr.B, SA335P11, SA335P22.
- Dish end: SA234 Gr. WPB, SA234 Gr. WP11, SA234 Gr. WP22.

(\*\*\* For any other specifications mentioned above, please consult factory.)

The material of the condensate pot is selected as per the process temperature and the service compatibility.



### TESTING & CERTIFICATIONS APPLICABLE

- Hydro pressure test
- Radiography for butt weld joints.
- Dye-Penetrant test.
- IBR certification

## PRIMARY FLOW ELEMENTS

# Sight Flow Indicators

<https://fabritekindia.com/products/sight-flow-indicators-india/>

## DESCRIPTION

Sight flow indicator is a device installed in the pipe & which provides a means of verifying the flow direction & the approximate flow. The ability to see what is happening inside the pipe is very useful for the process operators. This is a very simple & cost effective device & provides a means to the operators to observe color & clarity of process fluids through the window.

This may or may not have passive components which are set in motion by the direction of flow. Thus, giving the operator an idea of flow direction & also the approximate estimate of flow intensity.

Flow indicators without indication components are used wherever observing the flow characteristics is more important than verifying the flow rate.

## FULL VIEW TYPE SIGHT FLOW INDICATOR

This is also called as 360 deg. Sight flow indicator / Tubular type sight flow indicator, since it allows the operator to view the fluid from any angle. This can be installed in any position to observe the flow in any direction.

It is particularly suitable for low pressure systems with moderate flow rates. Care should be taken that this type of SFI shall be installed in the pipe where there is low mechanical strain.



This is available from 1" to 4" size. The materials shall be suitable for the fluid. The glass used shall be selected based on the operating temperature. Soda lime glass can be used upto 150 deg. C & Borosilicate glass upto 300 deg. C.



## DOUBLE WINDOW, PLAIN TYPE SIGHT FLOW INDICATOR

This type of indicator has 02 opposing windows so that the operator can see the intervening fluid lightened from behind either by ambient light or any other means. This is named as plain as it does not have any flow indication devices. Unlike full view type, this can be used at high pressure, high temperature application & harsh fluid applications. Double window type sight flow indicator, can be supplied in flanged end connection OR socket weld connection OR butt welded end connection, as per requirement.

Line sizes of 1" to 12" are covered in by this type with 150# & 300# pressure rating. Material selection will be as per the fluid flowing inside. PTFE coating can be provided as per requirement of process.

## DOUBLE WINDOW, FLAPPER TYPE SIGHT FLOW INDICATOR

Flow indicator when fitted with a hinged flapper visible through the sight glass, is called as SFI with flapper type indicator. When there is a flow, the flapper deflects in the direction of flow & remains at zero position when there is no flow.

With the position of flapper, the operator can have an approximate gauge of flow rate, since the flapper position is directly proportional to the force due to flow rate.



This style is best suited for horizontal pipelines but may also be used in vertical pipelines with flow in upward direction. For downward flow direction, flapper type SFI is not suitable.

Typical applications of the indicator are found for flow of transparent solutions OR gas flow OR dark fluids for which it is difficult to observe the flow. These are useful for the flow in one direction only. Other details are similar to double window plain type sight flow indicator.



## DOUBLE WINDOW, ROTOR TYPE SIGHT FLOW INDICATOR

Flow indicator when fitted with a rotor or impeller that is turned or rotated with the flow rate, is called as SFI with rotary indicator. The rotors are mounted inside the indicator such that the operator can observe the direction & approximate speed of flow.

Similar to flapper type indicator, this finds its application in flow of transparent solutions OR gases OR even dark fluids.

This is advantageous over flapper type indicator in the way that it can be used for both horizontal as well as vertical pipeline with flow in any direction. This can also be used with bidirectional flow. It is not advisable to use at very low flow, because the rotor may not rotate at lower flow rates. All other details are same as double window plain type sight flow indicator.

## DOUBLE WINDOW, DRIP TYPE SIGHT FLOW INDICATOR

This is a special type of sight flow indicator, designed for the drip observation. Drips & low volume intermittent flow can be observed with the help of this type of sight flow indicator. Typically this is used in distillation OR condensation application.

Since the gravitational effect is the basis of its design, this type is used only in applications where the flow is vertically downwards. All other details are same as double window plain type sight flow indicator.



## DOUBLE WINDOW, BALL TYPE SIGHT FLOW INDICATOR

In this type of sight flow indicator, a ball or number of balls are used as an indicator. The ball is clearly visible through the window & thus the flow direction can be predicted. Suspension of balls in the fluid indicates the flow & in the absence of flow rate the balls are in the rest position. Again the concept of gravity is used for this type also & hence it is used for the flow in vertically upward flow only.

Typically it is used for lower line sizes with slow flow & not for high flow rates. Line sizes may be 1/4" to 1.5" & the end connection may be threaded or socket welded. For better identification, the balls used may be with different colors rather than one color. We are specialised in sight flow indicators in India

## STEAM ENGINEERING

# Desuperheaters (DSH) & PRDS

<https://fabritekindia.com/products/desuperheater-dsh-manufacturers-india/>

## DESCRIPTION

In a typical process plant, there is a high demand of saturated steam for various heating applications & process requirements since saturated steam has good heat transfer efficiency. However the boiler generates superheated steam.

We have proven track record of successful operations of desuperheaters (DSH) in Venturi type and Variable Area nozzle type.

Amount by which superheated steam temperature exceeds the saturation temperature at particular pressure, is called as degree of superheat.

PRDS System is used to reduce the steam pressure to required operating pressure & to reduce steam temperature closure to saturation temperature.

Suitably designed pressure control valve, reduces the steam pressure to desired operating pressure. During this process, the temperature also reduces following the superheated steam curve. But the degree of superheat remains unaltered.

The superheated steam temperature is reduced close to saturation temperature, by injecting water into high pressure, high velocity steam by controlled water flow through water control valve & desuperheater.

Conventionally the pressure reduction & temperature reduction is done in two different units.

- Skid in which only pressure reduction is done, is called as PRESSURE REDUCTION STATION (PR Skid)
- Skid in which only temperature reduction is done, is called as DESUPERHEATING STATION (DSH skid)
- Both Skids combined, is called as PRESSURE REDUCTION & DESUPERHEATING STATION (PRDS Skid)

## MATERIAL FOR PRS / PRDS / DSH STATION

- Steam inlet isolation valve
- Steam pressure control valve
- Steam outlet isolation valve
- Steam bypass valve (manual/control)
- Pressure gauge @inlet & outlet
- Temperature gauge
- Rtd temperature sensor
- Safety relief valve
- Desuperheater
- Steam piping

## TESTING / CERTIFICATIONS REQUIRED

- Hydro testing
- Dp testing
- Radiography
- Ibr certification
- Asme certification (in case of exports)
- Performance test of dsh

- Calibration / performance test for control valves.

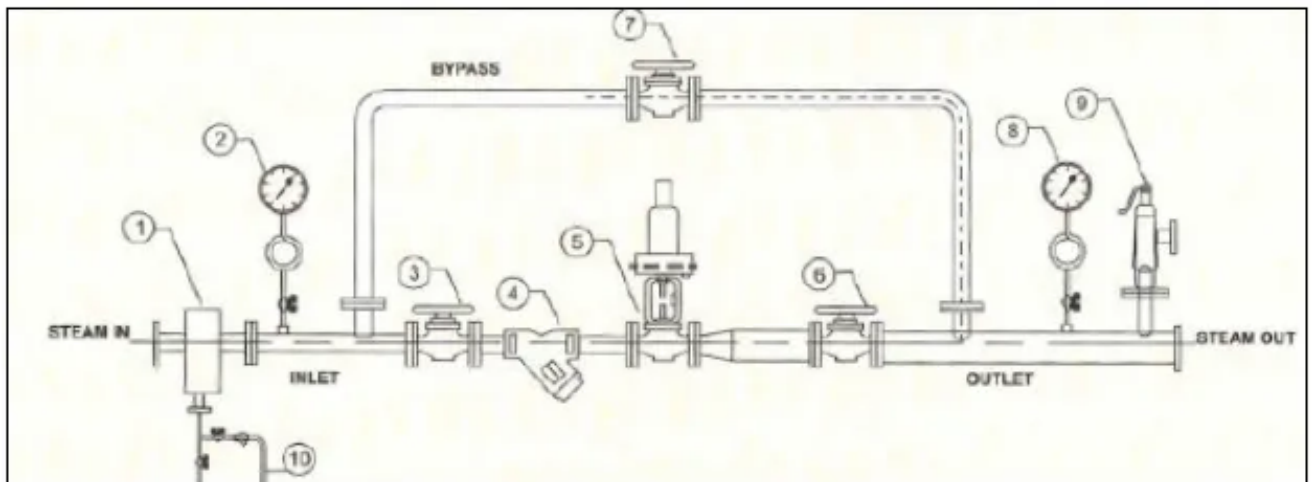
## MATERIALS SUPPLIERS

- Isolation valves: ksb, bdk, seel strong, l&t, audco, bv valves
- Control valves: mil controls, fisher, dresser valves, il-palakkad.
- Safety relief valves: fainger laser, tyco sanmar.
- Strainer: gujarat ottofilt, precision, pennent, precision.
- Desuperheater: fepl, chemtrols, forbes marshall.
- Temp. Gauge/elements: pyro electricals, gic, wika.
- Pressure gauge: pyro electricals, gic, wika.
- Pressure / temp. Transmitter: yokogawa, honeywell

## TYPICAL PRS STATION

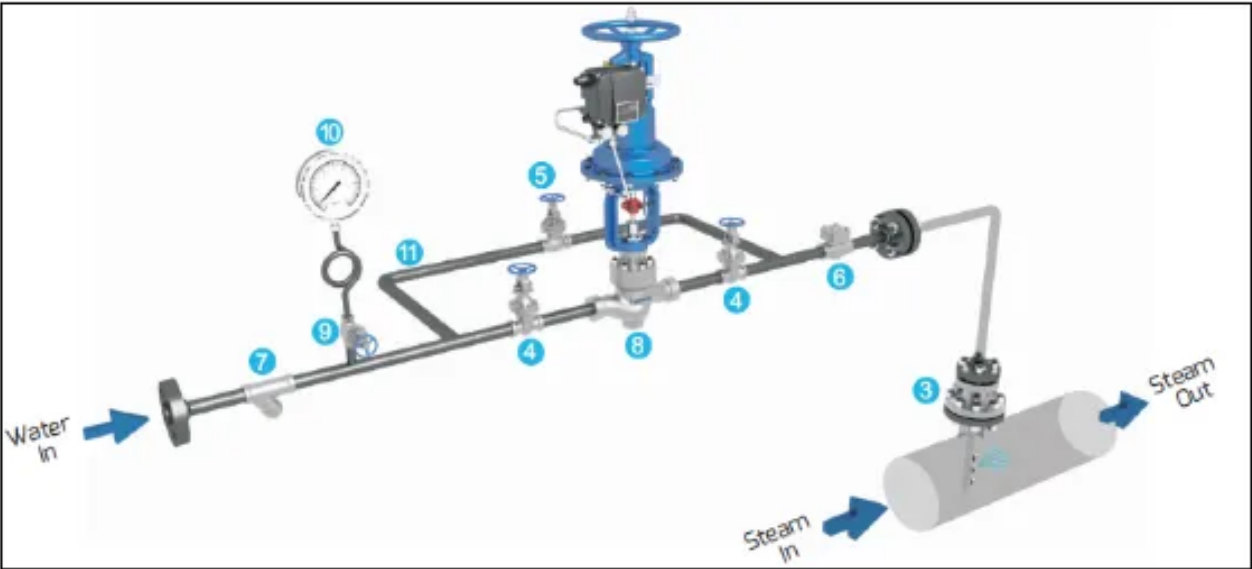


Typical PRS station - horizontal bypass

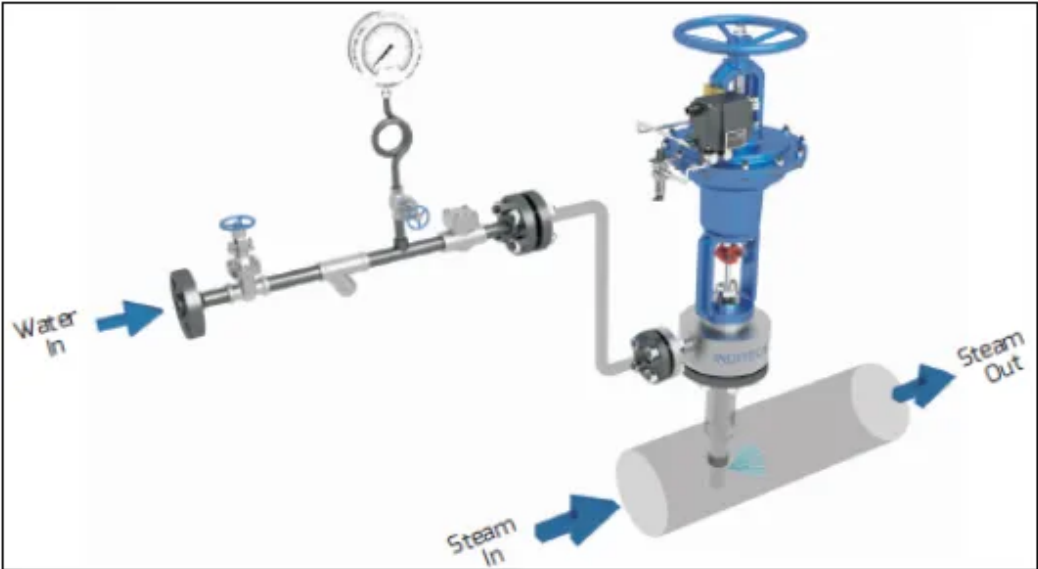


Typical PRS station - vertical bypass

TYPICAL DSH STATION

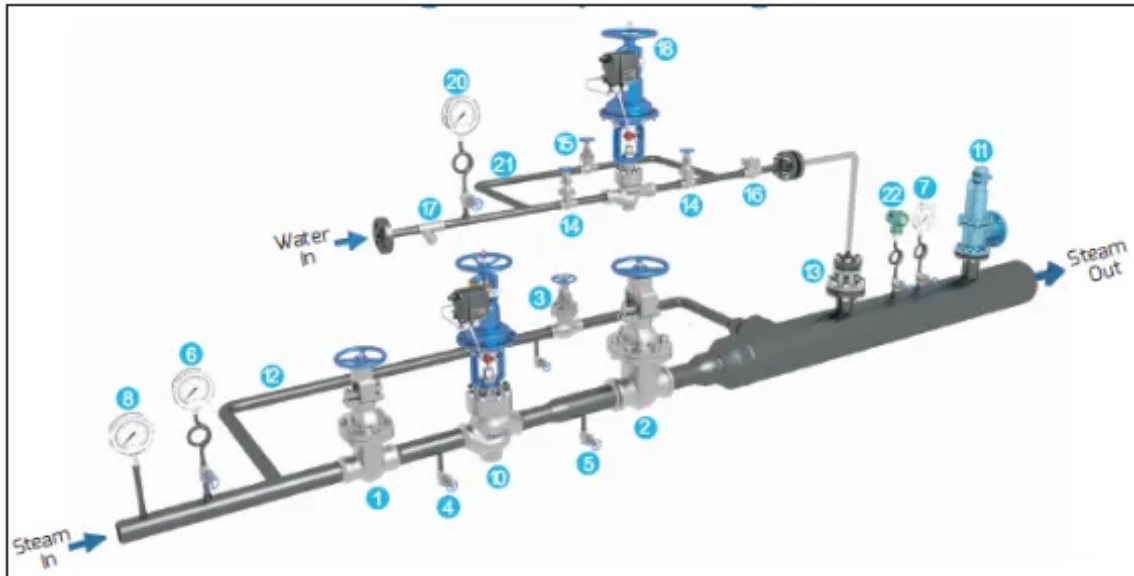


Typical DSH station

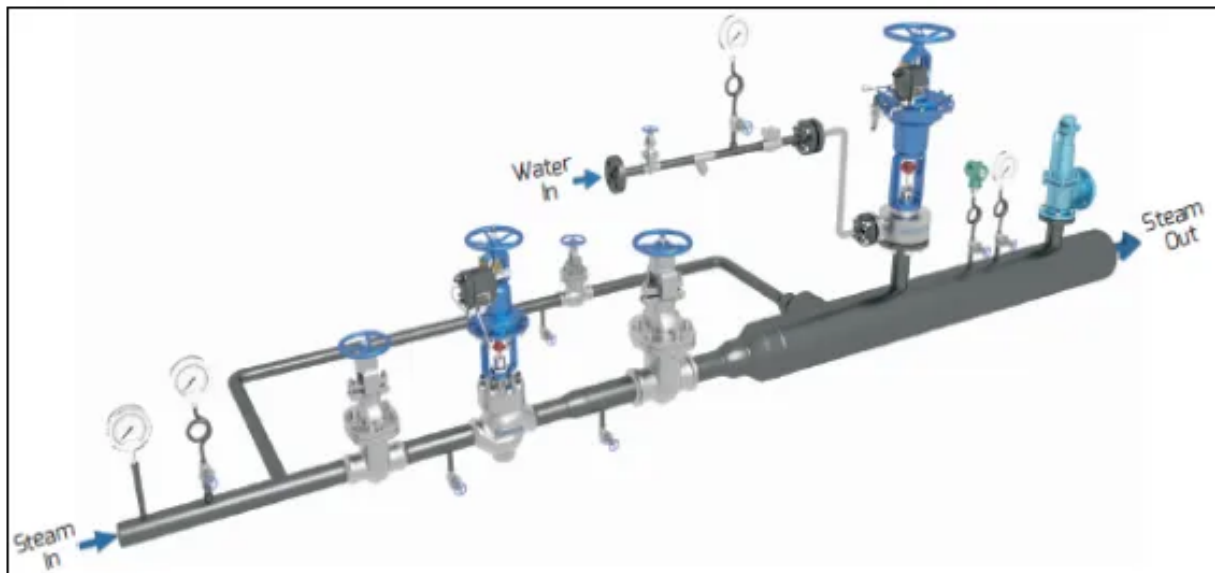


Typical DSH station - spray water arrangement

## TYPICAL PRDS STATION



Typical PRDS station



Typical PRDS station - water arrangement

## DESUPERHEATER (DSH)

Desuperheater (DSH): means to reduce the excess superheat. Means by which this is achieved is called as desuperheater.

Type of desuperheaters (DSH) as per combination with valve, as below:

- Desuperheater (DSH) with saperate spray water valve.
- Desuperheater (DSH) with integral control valve.
- Type of desuperheater (DSH) as per construction:
  - Venturi type dsh.
  - Variable section spray nozzle.

## VENTURI TYPE DESUPERHEATER (DSH)

The Desuperheater (DSH) model is a non-integral type, which requires a separate spray water control valve.

This is a venturi design with sharp edge against the flow- guarantees a high steam velocity and well atomized cooling water in the point of injection.

The cooling water enters the nozzle via the water flange. The pressure difference between the cooling water and the steam, to ensure good controllability and satisfactory atomization of the injected cooling water should not be below 2 bar.



This desuperheater (DSH) model is made for installation in steam pipes 1" to 4" . This type of DSH is, as standard, mounted between flanges

#### **VARIABLE AREA TYPE DESUPERHEATER (DSH) : Single nozzle**

In order to maintain a constant pressure inside the injection nozzle, the later is preloaded by a spring calibrated in function of the water/steam differential pressure.

Any load variation in the external water control valve is immediately compensated by change of orifice of the nozzle. Depending upon customer piping requirement, this DSH has 02 configurations.



Angle connection Straight connection.

There are 03 nozzle sizes available, based on the water quantity & differential pressure between water & the steam. This DSH can be used from 6" upto 40" line size. (steam pipe size).



### VARIABLE AREA TYPE DESUPERHEATER (DSH): Multiple nozzles

The Desuperheater (DSH) model is a non-integral type, which requires a separate spray water control valve.

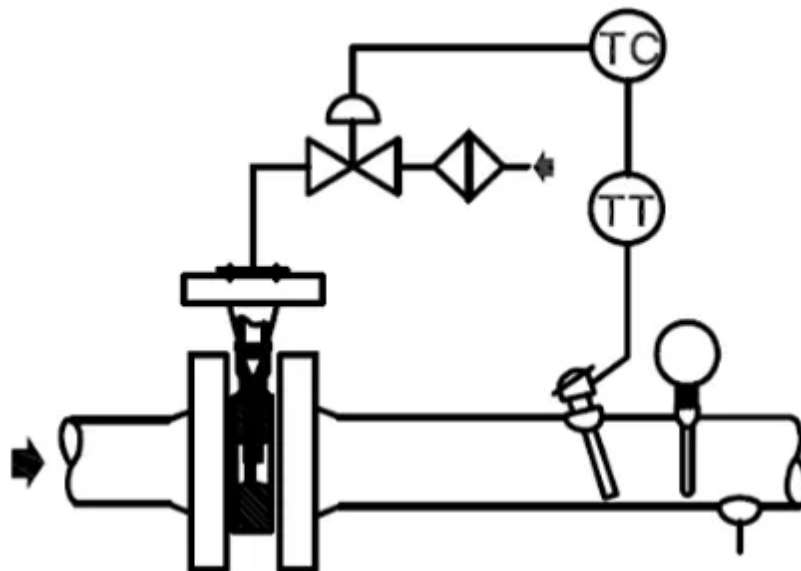
CD-M desuperheater (DSH) is used in desuperheater (DSH) applications where large spray water flows are required for cooling of the steam.

It is a part of steam line with a number water atomizing nozzle, nozzles attached to it.

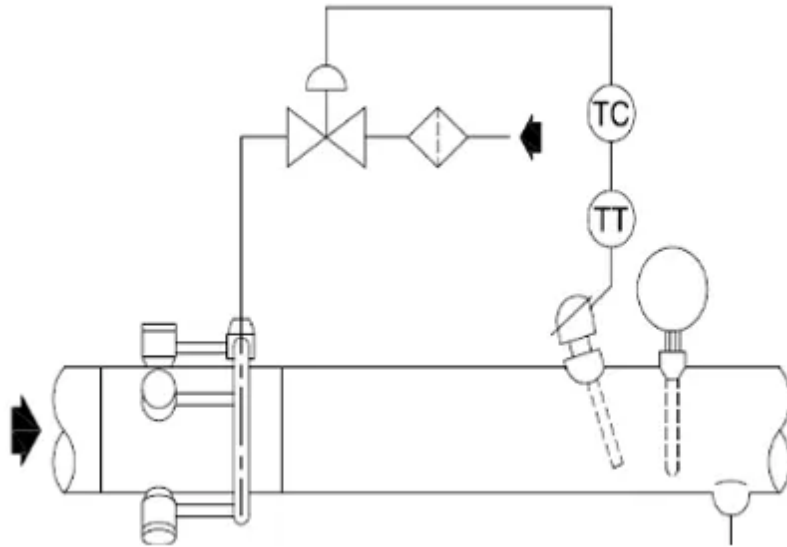
The nozzles are connected to a common spray water pipe connection. The water flow is controlled by separate spray water control valve. The nozzle is variable orifice.

The nozzle body is screwed in to the nozzle holder, which housed the nozzle and distributes water to the nozzle.

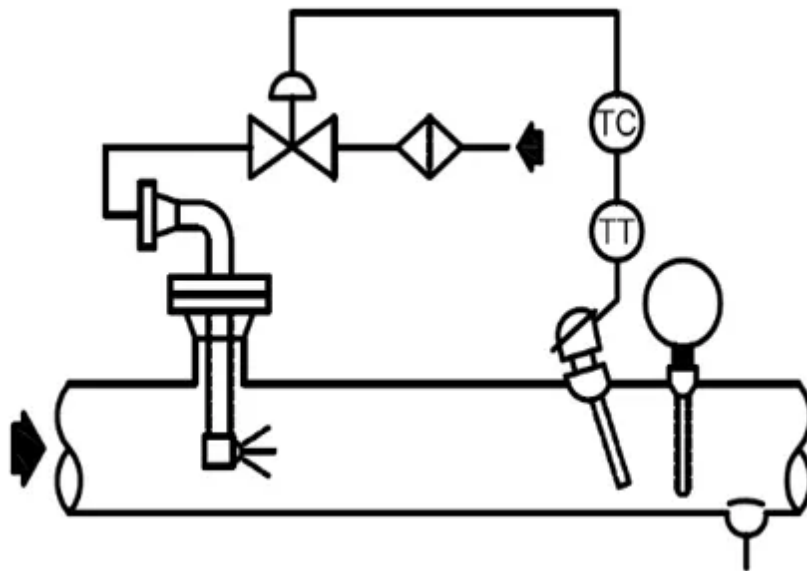
### TYPICAL INSTALLATION DRAWINGS OF DSH



Typical installation drawing of DSH



Typical installation drawing of DSH



Typical installation drawing of DSH

We are specialised in desuperheater (DSH) manufacturers in India

## PROCESS EQUIPMENT

# Storage Tanks

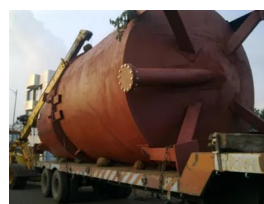
<https://fabritekindia.com/products/storage-tanks-manufacturers-india/>

## DESCRIPTION

With the help of our meticulous workforce, we are engaged in manufacturing and supplying a quality range of storage tanks upto capacity of 50KL. As we use quality material and cutting edge technology in manufacturing process, therefore, the end products are capable of sustaining high pressure and tension. Our products are also durable, non-corrosive, leak proof and low in maintenance. We are specialised storage tanks manufacturers

MOC: Carbon Steel, Stainless Steel grade SS304 & SS316

Capacity : Max.upto 50KL



Our domain expertise has enabled us to offer a wide array of SS Process Tank. Provided tank is manufactured by our dexterous professionals using quality assured material and ultra modern machinery. Offered tank is available in several sizes and other related specifications. Highly demanded in the process industry, our respected clients can buy this high quality tank from us at affordable prices.

## FEATURES

- Resistant to different chemicals
- Resistant to heat
- Sturdiness

With the help of our meticulous workforce, we are engaged in manufacturing and supplying a quality range of Stainless Steel Storage Tank. This storage tank is manufactured by our adept professionals using optimum grade stainless steel and cutting edge technology. Our storage tank is known for its rust free and leak proof nature, demanded in chemical, pharmaceutical, oil, cosmetics, food and other industries.

## SPECIFICATIONS

- Material : stainless steel, 304, 321, 3 16 l. Cladding plate of austenitic stainless steel
- Temperature : -70 - 350 oc
- Pressure : -0.1 - 9.9 mpa
- Max. Volume : 100 M 3
- Equipped with inside coil, Outside coil, Jacket or U tube

We are specialised in Storage Tanks Manufacturers in India

## PROCESS EQUIPMENT

# Process Tanks

<https://fabritekindia.com/products/process-tank-manufacturers/>

## DESCRIPTION

A vast range of Process Tanks can be availed from us by our clients based across different industries. Process tanks are designed and developed as per the industry requirement and in various sizes so that varied demands of clients can effectively met with. Made of quality material, these process tanks are resistant to different chemicals and heat. We provide installation services for these process tanks and provide these to clients within the stipulated time period. We are specialised Process Tank Manufacturers



We are the leading manufacturer and supplier of an optimum quality range of Jacketed Pressure Vessel. Our provided vessel finds its best usage in various industries like chemical industry, pharmaceutical industry, plastic industry and oil industry for holding gases or liquids at a pressure substantially different from the ambient pressure. The offered vessel is well-manufactured under the guidance of our highly experienced professionals using the finest grade raw material and modern technology. Offered vessel is available in different storage capacity as per the requirements of our clients.

## FEATURES

- High storage capacity
- Robust construction
- Superior strength

## PROCESS EQUIPMENT

# Pressure Vessels

<https://fabritekindia.com/products/pressure-vessel-manufacturers-india/>

## DESCRIPTION

We provide an exclusive range of Pressure Vessels which are manufactured using premium quality material. Keeping in mind the specific requirements of the end users, our range of pressure vessels are highly capable of holding gases or liquids at a pressure different from the ambient pressure. We are specialized Pressure Vessel Manufacturers

MOC : SA516Gr.60/70, Stainless Steel 300 series, Duplex Steel



As a prominent company, we are occupied in manufacturing and supplying a wide assortment of Pressure Vessel. This vessel is extremely capable of holding liquids or gases at a pressure different from the ambient pressure. Offered vessel finds its broad applications in fertilizers, oil, petrochemical and paper industries. This vessel is remarkably commended by our clients for its outstanding features.

## FEATURES

- Low maintenance
- Corrosion resistance body
- Robust design

## PROCESS EQUIPMENT

# Stainless Steel Vessels

<https://fabritekindia.com/products/stainless-steel-vessels-india/>

## DESCRIPTION

By utilizing skills of our experienced professionals, we are able to bring forth a qualitative range of Stainless Steel Reaction Vessel. Offered vessel is available in various types of agitator like propeller type, anchor type, pitched blade turbine type, paddle type and others. This vessel is manufactured using optimum quality stainless steel and modern technology. Still, our quality inspectors check strictly this vessel on various parameters.



## FEATURES

- Low maintenance
- Sturdy design
- Long service life

## PROCESS EQUIPMENT

# Agitator Tanks / Blenders

<https://fabritekindia.com/products/agitator-tanks-blenders/>

## AGITATOR TANKS

With the help of our state-of-the-art manufacturing unit, we are capable of manufacturing a range of quality Agitator Tanks. Our range of Agitator Tanks is available with impeller of propeller turbine, paddle and anchor type configuration. Made using quality stainless and carbon steel, these are corrosion resistant and highly durable. Our range of Agitator Tanks are widely used in cleaning, heating, pumping and chemical proportioning.



We provide a range of premium quality Agitator Tanks that are widely used in various chemical processes. Our range of agitator tanks is manufactured using carbon steel and stainless steel with jacketing and internal coil for heating or cooling. Known for durability, less maintenance, easy operation and corrosion resistance, our range is in adherence with defined industry standards.

Since our inception, we are instrumental in offering premium quality Agitator Tank With Blender. Our domain-experts are capable of offering this array in several specifications and can be customized too. Available with impeller of propeller turbine, paddle and anchor type configuration, this range is manufactured using high quality material. Our assortment is widely used in heating, pumping, cleaning and chemical proportioning.

## FEATURES

- High durability
- Sturdy design
- Robust structure

Symbolic to all the success that we have acquired in the market, remains our status as a prominent organization, offering an excellent variety of Agitator Tank that is available in several sizes. Widely used in different chemical processes, this tank is manufactured using premium quality material. For its plentiful quality features, this tank is highly demanded in the market.

## FEATURES

- Anti-corrosive
- Heat resistance
- Maximum strength

## PROCESS EQUIPMENT

# Heat Exchangers

<https://fabritekindia.com/products/heat-exchangers-manufacturers-india/>

## DESCRIPTION

We are engaged in manufacturing and supply of a qualitative range of Shell And Tube Heat Exchangers that cater to the requirements of various industries such as chemical industry, food industry, electrical industry etc. Fabricated using qualified ASME welder, ripe process technology and advanced facility, these are highly efficient in recovery of heat without an accompanying phase change. Highly reliable and functional, our range of heat exchanger is available at industry leading prices.



We bring forth a wide range of heat exchanger that is used to transfer heat from one medium to another. These heat exchangers can carry out the heat recovery effectively of fluids, gases, steam or vapors. Designed in adherence with defined industry standards, our range is available in various types.

We are specialised Shell And Tube Heat Exchangers Manufacturers

We are ranked amongst the leading firms, engaged in offering a qualitative variety of Heat Exchanger, used to transfer heat from one medium to another. Offered product is demanded in numerous industries like chemical, food, electrical and such others. Designed using advanced technology, this product array is highly suitable for recovery of heat. Beside this, our range of heat exchanger is obtainable at industry leading prices.

## FEATURES

- Rugged design
- Maintenance free
- Hassle free performance

We are a unique name in the industry to provide our precious clients an exclusive range of Shell And Tube Heat Exchanger. Offered heat exchanger is widely used in space heating, refrigeration, air conditioning, power plants, chemical plants, petrochemical plants, petroleum refineries and sewage treatment plants for transferring heat from one medium to another. Owing to its robust construction and perfect strength, this heat exchanger is very popular among our clients. Further, to ensure the best quality, the provided heat exchanger is strictly tested by our quality experts.

## FEATURES

- Easy to install
- Rugged construction
- Less maintenance

## PROCESS EQUIPMENT

# Distillation Columns

<https://fabritekindia.com/products/distillation-column/>

## DESCRIPTION

With the help of our diligent workforce, we offer our clients a wide range of distillation columns that are highly effective in distillation process. Fabricated using quality material, these distillation columns include columns that have more than two product streams and possess trays and packs to bring out an enhanced distillation. Designed with precision, these distillation columns are highly efficient in carrying out the extractive distillation and azeotropic distillation.



We manufacture the distillation column of bubble cap tray type and packed type in various material combination like carbon steel, stainless steel series 300 and copper.

## FABRICATION &amp; PIPING

# Process Pipe Fabrications

<https://fabritekindia.com/products/process-pipe-fabrications/>

## PROCESS PIPE FABRICATIONS

As an eminent enterprise, we are offering Compressor Pipe Fabrication Service to our valuable clients. This service is timely executed by our highly qualified professionals using high grade machines and advanced technology. The provided service is highly applicable in number of industries where fabrication work is executed. We offer this service as per the requirements of our clients within scheduled time-frame.



Clients can avail this service from us at affordable price. Further, our offered service is highly demanded by our clients for its flawlessness and promptness.

We are among the reputed organizations, highly engaged in providing an optimum range of Stainless Steel Piping Skid. Our offered piping skid is widely acknowledged by our clients for its corrosion resistance and easy installation features. The provided piping skid is precisely manufactured using the qualitative grade stainless steel and modern technology. This piping skid is available in different shapes and sizes as per the requirements of our clients.

## FABRICATION &amp; PIPING

# Skid Fabrication

<https://fabritekindia.com/products/skid-fabrication/>

## METERING SKID FABRICATION

We are a unique entity in the industry, actively committed towards offering the best grade Metering Skid Fabrication Service. Our offered service includes finishing of surface, assembly, quality testing and installation. Our highly experienced professionals provide this service after they meet our precious clients and render it in the best possible manner. In order to offer the best quality service, we only use the high-end technology and latest equipment and machines. Clients can avail this service from us at reasonable price.



## COMPRESSOR SKID FABRICATION

Backed by rich industry experience, we are highly engaged in offering Compressor Skid Fabrication Service. Our offered service is performed by our skilled professionals using the best grade machines and latest technology. Our highly experienced professionals visit the place and execute the service in an excellent manner. This service is highly acknowledged by our precious clients owing to its timely execution and cost-effectiveness features. Furthermore, our valuable clients can avail this service from us at most competitive price.

## FABRICATION &amp; PIPING

# Heavy Industrial Fabrications

<https://fabritekindia.com/products/heavy-industrial-fabrications/>

## INDUSTRIAL BAG FILTERS & HOPPERS

With the continuous support and sincere efforts put by our experienced professionals we have been able to provide our clients a qualitative range of Bag Filter. Our provided bag filter is widely used in various industries to enhance the quality of air released from industrial and commercial processes by filtering dust and other impurities.



It is fabricated under the guidance of our highly experienced professionals using the finest grade raw material and superior technology. The offered bag filter is highly acknowledged by our clients owing to its easy installation and less maintenance features. We are specialised in Heavy Industrial Fabrications.

## HEAVY INDUSTRIAL FABRICATIONS

Keeping in mind diverse requirements of our clients, we offer our clients an exclusive range of Industrial Scrubber. As per the industry standards, this industrial scrubber is manufactured using quality proven material. This industrial scrubbing system is ideal for removing several toxic particulates and gases from industrial exhaust systems. Our domain-experts can offer this industrial scrubber in different models.



## STAINLESS STEEL FABRICATIONS

With highly driven ethnically excellence, our organization is actively committed to offer the qualitative grade SS Pipe Fabrication Service. The offered service is carried out by our adept professionals using excellent grade machines and superior technology.

We offer this service in an excellent manner within a scheduled time frame. Owing to its promptness and flawlessness, this service is widely appreciated by our clients.

Further, we provide this service as per the varied requirements of our valuable clients at budget friendly price. Stainless steel welding is a process of welding different stainless steel metals like shielded metal arc welding (MIG), gas tungsten arc welding (TIG) and stick welding. All such welding processes will give a slightly different result. We have expertise in such welding of stainless steel.

## COMPRESSOR BASE FRAMES

With the continuous support and sincere efforts put by our experienced professionals we have been able to provide our clients a qualitative range of Bag Filter. Our provided bag filter is widely used in various industries to enhance the quality of air released from industrial and commercial processes by filtering dust and other impurities.

It is fabricated under the guidance of our highly experienced professionals using the finest grade raw material and superior technology. The offered bag filter is highly acknowledged by our clients owing to its easy installation and less maintenance features.



We offer our clients an optimum quality range of Base Frame which is fabricated using the best grade raw material and superior technology in adherence to the set industry standards. The provided base frame is widely used in various industries to offer support to various equipments and systems that are placed on it. Owing to its perfect strength and flawless finish, this base frame is widely demanded among our clients. Furthermore, to ensure the best quality, the offered base frame is rigorously tested by our experienced quality controllers against various quality parameters.

## TITANIUM WELDING

Titanium welding is readily weldable since we are using several welding processes. Also, titanium welding to most other metals is not feasible, because titanium forms brittle compounds with most other metals; but titanium can be welded to zirconium, tantalum and niobium. We can get it done for you.

## ALUMINIUM WELDING

There are multiple ways of welding Aluminum using different processes, namely TIG, MIG and plasma. The thinner sheets with alternating current is mostly used for TIG welding process. But joints in particular can be welded well with a TIG torch. Aluminum can also be welded using a laser and laser-MIG hybrid process.

## DUPLEX STEEL PIPING

The widely used metal is Duplex stainless steel which is very useful. Essentially, This is an alloy of Fe-Ni-Cr that has a two-phase ferritic-austenitic stainless-steel microstructure at room temperature. It derived its name from because of it consists of two different grades of metal.



### IBR PIPING & IBR FABRICATION

The manufacturing of boilers and regulating them is set under proper guidelines under IBR or Independent Boiler Regulation which is an independent body. The IBR Pipe follows all the construction codes which specify the material, design, and fabrication requirements. We can customize your piping requirements and fabricate accordingly.

### INCONEL FABRICATION

Nickel alloys fabrication.

Duplex is a stainless steel that is about twice as strong as regular austenitic or ferritic stainless steels. Duplex stainless steel is formed from an approximate 50/50 mixture of austenitic and ferritic phases and provides additional corrosion resistance that is superior to 316 or 316L in most environments.