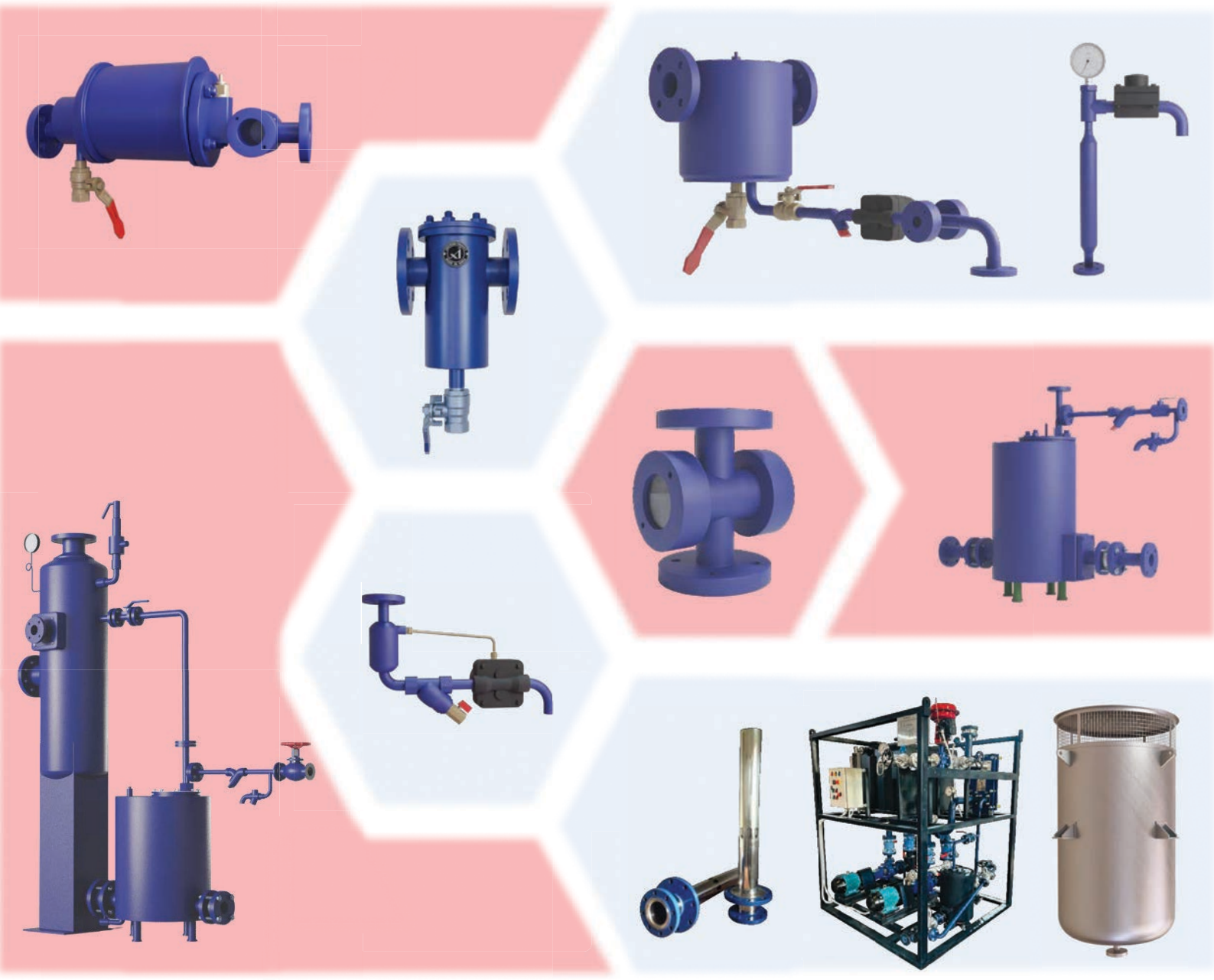
Providing Value for Money in Steam Engineering

indo-ANUSHKA



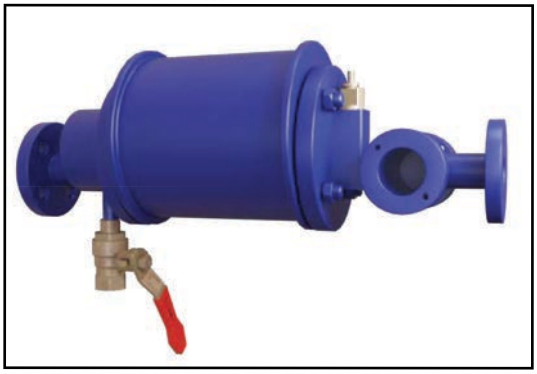
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Steam Trapping Solutions

S-Cube
Redefining the concept of Steam Trapping



- **Type**: Float Trap with inbuilt Strainer & Sight Glass
- **Working Principle**: Integrated Flow with Pre-filtration, Steam Trapping & Condensate Removal with real-time Monitoring
- **Ideal for**: All indirect steam using heat ex changers/ reactor vessels for continuous condensate discharge
- **Features**...

✓✓ *Ensures System Efficiency & Helps to Prevent Losses*

✓✓ *Ease of Operation, Maintenance & Monitoring*

✓✓ *Cleaning of strainer without any tools or system shutdown*

✓✓ *Compact Size & Time-proven Design*

- **Available Sizes** : 15NB to 80NB
- **MOC** : Body - CS / SS, Internal - SS, Custom on request
- **Pressure ratings** : 4.5/10/14 kg/cm²
- **End Connections** : Flanged End ASA 150#

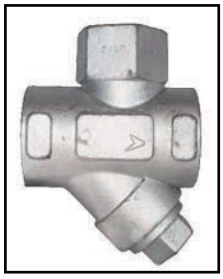
FST - Float Type Steam Trap

- **Type**: Float type Steam Trap
- **Working Principle**: Float mechanism operates on density difference of Steam & Condensate
- **Ideal for**: Indirect steam applications such as heat exchangers and reactor vessels for continuous condensate discharge
- **Features**...
  Ensures continuous condensate discharge without steam loss and includes steam lock release for removal of air and non-condensables



- **Available Sizes** : 15NB to 50NB
- **MOC** : Body - CS / SS, Internal - SS, Custom on request
- **Pressure ratings** : 4.5/10/14 kg/cm²
- **End Connections** : Flanged End ASA 150#

TDT - Thermodynamic Steam Trap

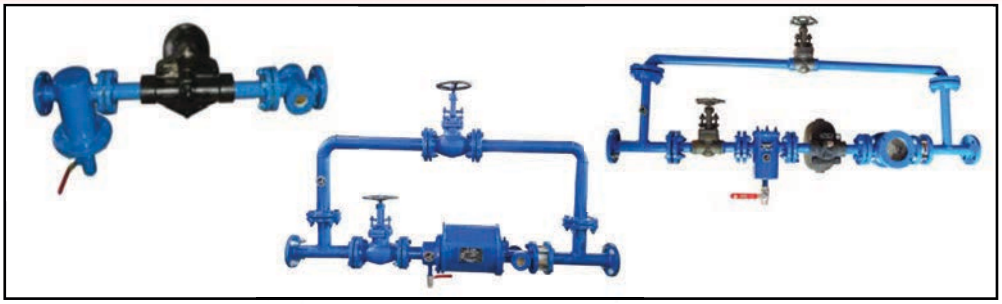


- **Type**: Thermodynamic Disc type Steam Trap
- **Working Principle**: Use pressure difference and flash steam velocity to open/close disc
- **Ideal for**: Drip Line, Steam tracing, Steam Header
- **Features**...
  Compact - rugged design, withstands super-heated steam, intermittent quick response

- **Available Sizes** : 15NB, 20NB & 25NB
- **MOC** : SS body with Hardened disc
- **Pressure ratings** : 42 kg/cm²
- **End Connections** : Screwed End BSPT

Standard Modules, Module with bypass and Customized modules

- Compact
- Pre-tested & Ready to install
- reduced fabrication time
- Customised on request based on P & ID and Dimensions



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Flash & Condensate Recovery Systems

MTRPS — Combined Flash & Condensate Recovery System



The Indo Anushka make MTRPS is designed as a complete solution for Flash Recovery and pumping condensate. This is an ideal equipment to recover 100% flash from condensate and pumping condensate at temperatures above 100°C. The MTRPS system is a balanced system where even the motive steam supply to the pump is recovered resulting in to zero loss of steam.

- ✓✓ *Complete Heat Recovery for Maximum Savings*
- ✓✓ *Compact Skid Mounted - Minimal Investment*
- ✓✓ *Zero loss - Energy Efficient system*
- ✓✓ *Recover Steam Trap Losses and Pump Condensate More Than 100 °C*

- **Available Sizes** : 25NB & above based on Condensate load (NIBR)
- **MOC** : Body - CS / SS, Internal - SS, Custom on request
- **Pressure ratings** : Up to 14 kg/cm² Pressure Condensate Inlet
- **Flash Recovery** : Based on Recovery Destination
- **Capacity** : 500 kg/hr and above, Standard or Customised
- **End Connections** : Flanged End ASA 150#/300#

Mutiny
Steam/Air Operated Condensate Return Pump



Indo Anushka's **MUTINY** is simple in construction and steam-operated, these are highly economical and energy efficient pumps for pumping of hot condensate practically at 100° C. The pump is available as a complete package with condensate collection tank, Motive Steam/AIr inlet module interconnecting piping with strainer, isolating valve, disc check NRV at inlet and disc check valve at outlet.

- ✓✓ *Return Condensate with Maximum Available Heat*
- ✓✓ *Steam or Air Operated - No Electricity Required*
- ✓✓ *Zero loss - Energy Efficient ystem*
- ✓✓ *Reduce Fuel and Fresh Water Consumption*

- **Available Sizes** : 25NB & above based on Condensate load (NIBR)
- **MOC** : Body - CS / SS, Internal - SS, Custom on request
- **Pressure ratings** : Up to 14 kg/cm² Pressure Condensate Inlet
- **Capacity** : 500 kg/hr and above, Standard or Customised
- **End Connection** : Flanged End ASA 150#

We can customise the solution for Maximum possible Heat Recovery

- Local Hot Water Generation using Flash Steam with Automation.
- Generate Flash Steam at low pressure using Higher Pressure Condensate in Two Stage.
- Flow Totaliser provided on request additionally.
- pH & TDS sensor can be provided with the system to isolate the contaminated Condensate

Mutiny - CPTC/PTC — Pump Trap Combination



IA make **MUTINY-PTC** is specially designed Combination of Steam Operated Condensate Pump & Steam Trapping mechanism for effective condensate removal from heat exchanger or temperature controlled reactor vessels/ heating column.



- **Working Principle** : Combination of Condensate pump & Steam Trap
- **Available Sizes** : 15NB to 50NB
- **MOC** : Body - CS / SS, Internal - SS, Custom on request
- **Pressure ratings** : 4.5/10/14 kg/cm²
- **Capacity** : As per Steam Trap capacity chart
- **End Connection** : Flanged End ASA 150#
- **Ideal for** : Heat Exchanger/Reactor with Modulating Steam Inlet

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Indo Anushka's Innovative Solution

Mainteno®- Tigon — Online Cleanable Strainer





Indo Anushka make **MAINTENO®-TIGON** is a Y / T - Type Strainer technically designed to specially enable cleaning of the strainer online without the necessity of any opening up and shutdown. Designed based on fluid dynamics principles, enabling efficient inline cleaning through natural back-flushing using process flow, by just an operation of a blow down valve & no instrumentation involved. Indoanushka make **MAINTENO®-TIGON** is an amalgamation of T-type and basket type strainer, taking the advantages of both these types of strainers. This model of strainer is designed in such a way that the screen is basket type with handle which can be easily removed from the top and the strainer can also be cleaned online without removing the screen.

Mainteno - Tigon with Scrapper arrangement

The Ultimate comprehensive solution for Online Strainer Cleaning - Mainteno Strainer is provided with Manual/ Motorised scrapper arrangement to remove very sticky muck from the screen online/inline. This Mainteno can be cleaned manually/automatically based on set time/set differential pressure in just few minutes.



Mainteno Inverted

Designed with sparger arrangement for inline cleaning without opening a screen at pump suction. Need only isolation and positive water pressure connection to sparger of standby pump.



Mainteno & Simple Y/T type/Basket Strainer can be customised as per requirement of application

- ✓✓ *Online Cleanable and No Shutdown Required*
- ✓✓ *Negligible Pressure Drop with Open Area Ratio - 2*
- ✓✓ *Prevent Losses Happening Through Bypass Opening*
- ✓✓ *Hassle Free Operation of Inline Equipement*

- **Available Sizes** : 15NB & above
- **MOC** : Body-CS/SS, Internal-SS, Custom on request
- **Screen Size** : 55 micron and above as per requirement
- **Max. Op. Pressure** : 20 kg/cm²
- **Max. Op. Temperature** : 200 °C
- **End Connection .** : ASA 150#/300#

Multiview — Double Window Sight Glass



MULTIVIEW is a fabricated type window sight glass for flow monitoring application over a range of utility & process fluids for a wide range of pressures and temperatures. MULTIVIEW is a special kind of double window sight glass with technically superior design which ensures no glass breakage and leak-proof performance over long service life and a added advantage of self cleaning glasses. **MULTIVIEW** makes the function of flow monitoring a completely maintenance free and low cost experience.

- ✓✓ *No Leak - Fine Threaded Cap-Nut Housing Design*
- ✓✓ *No Glass Breakage - Non Stressed Fitting in Cap-Nut Housing*
- ✓✓ *Self Cleaned Clear View - Deflector Provided In Flow*
- ✓✓ *Customised for - Bigger View, Jacketed,*

- **Available Sizes** : 15NB to 150NB
- **MOC** : Body - CS / SS, Toughened Glass, Custom on request
- **Pressure ratings** : Up to 21 kg/cm² Pressure Condensate Inlet
- **Capacity** : 500 kg/hr and above, Standard or Customised
- **End Connection** : Screwed End/Flanged End ASA 150#/300#



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Hot Water Systems

MWHS Modular Water Heating System

We offer a wide range of Hot Water Generation Systems suitable for process heating, cleaning, CIP, HVAC, and utility services, tailored to meet diverse industry needs

Steam based Indirect Heating Systems



- **Type**: Shell & Tube/Plate heat exchanger based
- **Working Principle**: Steam heats water indirectly through a heat exchanger
- **Application**: Closed loop Hot water circuits, process lines
- **Features**...

✓✓ *Efficient & Instant accurate heating*

✓✓ *No Steam contamination with water*

✓✓ *Compact and Reliable standard/customised design*

✓✓ *Ideal for Pharma, Chemical & Food Industries*

- **Capacity** : 5 m3/hr and above
- **Maximum Water Temperature** : 95 °C
- **Steam Pressure** : 3 to 6 kg/cm²



Steam based Direct Heating Systems



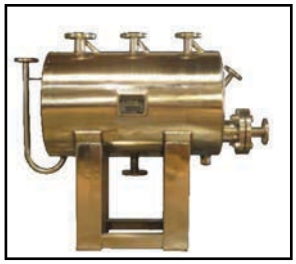
- **Type**: Direct Steam Injection
- **Working Principle**: Live Steam injected into the water
- **Application**: Hot water applications, Washing system
- **Features**...

✓✓ *Fast Heating with Compact System*

✓✓ *High Thermal Efficicency*

✓✓ *Suitable where Steam Mixing is acceptable*

- **Capacity** : 1 m3/hr and above
- **Maximum Water Temperature** : 95 °C
- **Steam Pressure** : 3 to 6 kg/cm²



Thermoject Steam Injector



Indo Anushka make Steam Injector - Thermoject is an efficient steam-water mixing device using a concentric Venturi arrangement to utilise 100% steam to heat the water in submerged condition.

- **Type**: Mechanical Injector for Direct Heating
- **Working Principle**: Uses venturi action to inject and mix steam into water
- **Application**: Open Tank Water Heating, CIP system, Washing system
- **Features**...

✓✓ *No Moving Parts - Long Life*

✓✓ *Maximum utilisation of Steam*

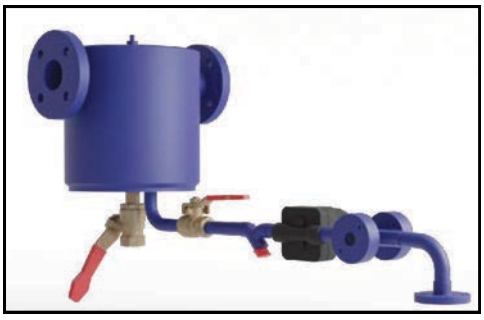
✓✓ *Operates quietly by acting as a steam diffuser*

- **Available Sizes.** : 15NB to 80 NB
- **MOC.** : MS - chrome plated, SS, PTFE, Custom on request
- **Steam Pressure** : Up to 10 kg/cm²
- **End Connection** : Screwed End, Flanged End ASA 150#, with Connector

We can customise the system based on your application requirement.
Full package system includes Heat exchanger/Steam Injector, Steam Control Module, Temperature Sensor with Control Panel, Condensate Pumping Steam Trap, Circulation pump with all required inter-connecting piping and accessories in a single skid.

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Moisture Separator — Dual Action for Clean & Dry Steam



Indo Anushka Moisture Separator cum Strainer is a unique solution for removing moisture from steam/air and increasing its dryness fraction while simultaneously straining it to remove any carry over solid particles. This product is a combination of a T - Type Strainer with online cleaning arrangement and a moisture separator to remove moisture online.

- **Type**: Wire Mesh/Perforated Screen & Baffles type
- **Working Principle**: Straining & Removing Moisture with screen & baffles
- **Ideal For**: Protecting downstream equipment like Steam Ejectors, PRVs, Dryers, Heat Exchangers, etc.
- **Features**...

✓✓ *Dual function : Moisture Removal + Dirt Filtration in single body*

✓✓ *Improves Process efficiency and Equipment life*

✓✓ *Separate Strainer's Blowdown Valve & Moisture Drain Module*

- **Available Sizes** : 15NB to 150NB
- **MOC** : Body, Baffles - CS, Internal Screen - SS
- **Pressure Rating** : Up to 10 kg/cm2
- **End Connection** : Flanged End ASA 150#

AVDT — Air Vent with Dial Thermometer



IA make AVDT - Air Vent with Dial Thermometer assembly consist of balanced pressure Thermostatic Trap with inbuilt screen, Air collecting pipe and a Bimetallic Dial Thermometer.

- **Type**: Thermostatic Trap type
- **Working Principle**: Based on Temperature difference of Air & Steam
- **Ideal For**: Steam Headers, Steam Jackets, Steam Header End, etc.
- **Features**...

✓✓ *Ensure Quick Removal of Air & Preventing cold Spots*

✓✓ *Improves Process efficiency and Steam quality*

✓✓ *Real-time Temperature indication*

- **Available Sizes** : 15NB to 25NB
- **MOC** : Body - CS, Internal - SS
- **Pressure Rating** : Up to 21 kg/cm²
- **End Connection** : Flanged End ASA 150#

FCAT — Float Type Compressed Air Trap



IA make FCAT - Float Type Compressed Air Trap to remove moisture from Air Receiver or Moisture Separator with zero Air Loss.

- **Type**: Mechanical Ball Float Operated Air Trap
- **Working Principle**: Density diffrence of Air & Moisture
- **Ideal For**: Air Receiver, Air Moisture Separator
- **Features**...

✓✓ *Ensure Continuous Discharge of Moisture*

✓✓ *No Air Loss during Operation - Improves System Efficiency*

✓✓ *Air Balancing Bottle Prevents Air Locking*

- **Available Sizes** : 15NB to 25NB
- **MOC** : Body - CI/CS, Internal - SS
- **Pressure Rating** : Up to 15 kg/cm²
- **End Connection** : Flanged End ASA 150#

Vent Silencer — Engineered to Silence, Built to Last



The Vent Silencer is a highly efficient noise reduction device engineered to minimise the sound generated by the release of pressurised steam, gas, or air into the atmosphere. Designed for in-dustrial environments, the silencer ensures compliance with noise regulations, enhances work-place safety, and reduces environmental sound pollution.

- **Type**: Reactive or Absorptive type or Combination of both type.
- **Working Principle**: Attenuates high velocity noise by expansion or/and absorption
- **Ideal For**: Steam vent, Air vent, Other Gas vent, etc.
- **Features**...

✓✓ *Reduce Vent Noise by up to 70-80 dB.*

✓✓ *Designed for Continuous or Intermittent venting applications*

✓✓ *Customised for required flow, pressure and acoustic requirements*

- **Available Sizes** : 25NB & Above (NIBR)
- **MOC** : Body, Internal Chambers- CS, Internal Screen - SS
- **Pressure Rating** : Up to 35 kg/cm²
- **End Connection** : Flanged End ASA 150#/300#/...