

# *Mainteno<sup>®</sup> Tigon*

Eliminating Shutdowns with Online Cleaning



 *indo-ANUSHKA*



## *Innovative Self-Cleaning Technology for Uninterrupted Operations*

### Why MAINTENO®

Traditional strainers like Y-type and T-type (including basket strainers) are commonly installed on fluid, gas, and steam supply lines to remove solid particles.

However, over time, these strainers become clogged due to the buildup of solids.

This leads to the need for frequent isolation, opening, and cleaning. The repetitive nature of this process results in equipment downtime, time investment, or costly alternatives like duplex strainers or bypass losses.

**Mainteno** solves this problem by offering an innovative solution that minimizes downtime, maintenance effort, and costs, ensuring efficient and uninterrupted operations.

### MAINTENO®

Indo Anushka make **MAINTENO®** 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 the principles & laws of fluid dynamics, it enables cleaning of the strainer online by forced flushing and natural back-flushing by just an operation of a blow down valve & no instrumentation involved

### MAINTENO®-TIGON

Indoanushka make **MAINTENO®-TIGON** is an amalgamation of MAINTENO® and traditional 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.

✓✓ *Strainers can be cleaned Online*

✓✓ *Without any Shutdown*

✓✓ *Without opening Strainer*

✓✓ *In Compliance with TPM*

# Strain smarter with MAINTENO TIGON

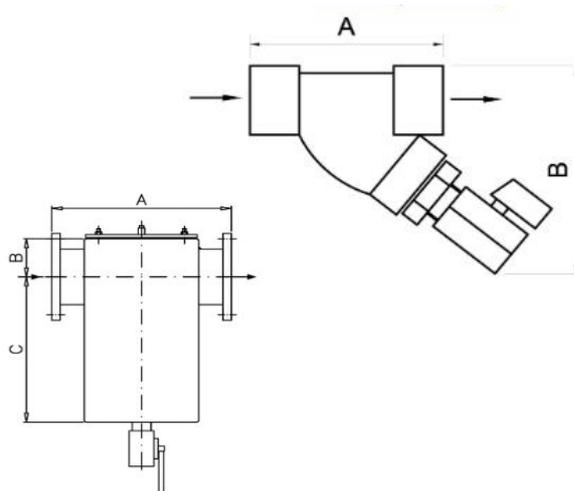
## Technical Details



|                       |  |
|-----------------------|--|
| <b>Application</b>    | Air, Gas, Steam, Water, Oil, etc.  |
| <b>Type</b>           | Y type, T type, T type - Inverted, T type with Scrapper  |
| <b>Size</b>           | Body: CS, SS304, SS304L, SS316, SS316L or other specific MOC.<br>Screen: CS, SS304, SS304L, SS316, SS316L or other specific MOC. |
| <b>MOC</b>            | 50 micron & above - wire mesh with perforated casket<br>1 mm & above - perforated sheet with stiffners                           |
| <b>End Connection</b> | Screwed End 800#, Flanged End 150#/300#  |
| <b>Max. Op. Pr.</b>   | 20 kg/cm <sup>2</sup>  |
| <b>Max. Op. Temp.</b> | 250°C  |

## Dimensional details

| Size    | A      | B      | C    | Ball Valve Size |
|---------|--------|--------|------|-----------------|
| 15/20NB | 92/100 | 93/103 | -    | -               |
| 25NB    | 170    | 48     | 104  | 15NB            |
| 32/40NB | 195    | 45     | 133  | 15NB            |
| 50NB    | 255    | 60     | 163  | 25NB            |
| 80NB    | 300    | 75     | 261  | 40NB            |
| 100NB   | 360    | 95     | 322  | 50NB            |
| 125NB   | 500    | 125    | 439  | 50NB            |
| 150NB   | 500    | 125    | 493  | 50NB            |
| 200NB   | 605    | 150    | 573  | 50NB            |
| 250NB   | 650    | 178    | 707  | 50NB            |
| 300NB   | 820    | 210    | 861  | 50NB            |
| 350NB   | 845    | 240    | 1020 | 50NB            |



## Stand-alone Features

- ✓ Online cleanable arrangement with Flushing & Back flushing in one stroke in positive pressure line. In case of installation in suction line, it can be cleaned Inline with inside spray arrangement.

Results...

- Total prevention of shutdown
- Continuous hassle free running
- Saving man power used in strainer cleaning
- Prevent losses due to using bypasses

- ✓ A ratios of minimum 2 is provided for screening area to flow area as per international standards. Therefore, pressure drop across the strainer in clean conditions is nearly zero making it very suitable even for installation before pressure sensitive equipments like PHEs

- ✓ It can be tailor made to replace existing one easily for any Horizontal and Vertical installation or any other specific requirement.

- ✓ It is available with manual cleaning, semi-automatic and fully automatic cleaning - timer based, differential pressure based or both.

## MAINTENO – TIGON ScMn/ScMo – T type Strainer with scrapper arrangement

- The ultimate comprehensive solution for Online Strainer Cleaning.
- Scrapper arrangement provided makes it suitable for cleaning normal as well as high viscosity sticky muck from the screen.
- The Strainer can be provided with both option of Manual (ScMn) or Motorised (ScMo) drive for the scrapper as per requirement.
- Stuffing box and PTFE gland packing seal provided for longer life and leak free operation.
- scrapper arrangement provided with adjustable scrapper brushes for replacement free extended life.
- The total operation from Starting the motor to stopping the blowdown valve after complete cleaning takes only about 25 to 30 seconds for normally sticky solid particles.
- The Mainteno Tigon ScMo, if required, can be provided with total automation. The controller provided would sense the pressure drop across the strainer and beyond the set point would sequentially start and complete the total scraping and online cleaning process of the Mainteno – Strainer including blowdown. The timing of each activity can be set as required in the controller.



## Range OF Products – Indo Anushka

✓ Mainteno – Speciality Online Cleanable Strainer.

✓ Multiview – Double Window Sight Glass.

✓ Steam Trap – Thermodynamic type, Ball Float type, Thermostatic type Steam traps & Modules.

✓ Mutiny – Steam Operated Condensate Return pumps.

✓ Flash Vessel – Flash separation Vessel

✓ MTRPS – Balanced Flash & Condensate recovery system with zero steam loss & high temperature condensate return.

✓ MHWG – Modular Hot Water Generator.

✓ Thermoject – Steam Injector for direct steam injection.

✓ Vent Silencers – for Steam/Air/Other gases.

✓ Mutiny PTC – Steam Operated Pump Trap Combination.

✓ FCAT – Mechanical Compressed Air – drain Trap for moisture removal.

✓ AVDT – Air Vent with Dial Thermometer.

✓ Mainteno Msep – Strainer & Moisture Separator combination.

✓ Customised tailor-made energy conservation Solutions in the field of Steam/Air/Water, etc.

## Get In Touch

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