

MAINTENOTM

“STRAINERS THAT CLEAN ONLINE NO SHUTDOWNS REQUIRED.”



**MANUFACTURED & MARKETED
BY
INDOANUSHKA**

“PROVIDING VALUE FOR MONEY IN STEAM ENGINEERING”



Indo Anushka

Steam Technologies.

WHAT IS MAINTENO ?

Indoanushka 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 backflushing by just an operation of a blow down valve & no instrumentation involved.

WHY MAINTENO ?

Strainers traditionally available in the market, Y-type / T-type (basket strainers also in T type) are installed before equipments on supply lines of fluid, gas, steam, etc. and are used for removing (straining) solid particles from the fluid. All strainers gradually get choked due to the straining of the solid particles and collection of the same inside or before. All traditional strainers (Y-type, T-type including basket type) are then required to be isolated, opened and cleaned. Choking of these strainers, which is a repeatable and ongoing process, therefore involves shutdown, investment of time or investment in duplex strainers or losses by opening of bypasses.

WITH MAINTENO™.....

✓ STRAINERS CAN NOW BE CLEANED.....ONLINE.....

✓ WITHOUT TAKING A SHUTDOWN.....

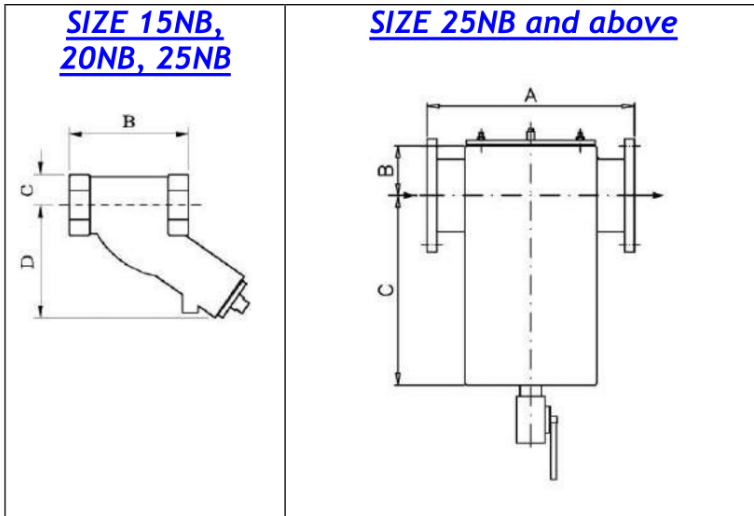
✓ WITHOUT OPENING UP THE STRAINER.....

✓ IN COMPLIANCE WITH TPM.....

HOW THE MAINTENO™ DOES IT.....

- AT STARTUP THE FLOW IS FROM INSIDE TO OUTSIDE. A SUCTION EFFECT IS CREATED INSIDE THE STRAINER.***
- DURING CONTINUOUS FLOW THE FLUID GETS FILTERED AND THE SOLID PARTICLES GET COLLECTED INSIDE THE SCREEN. FLOW THROUGH ORIFICE CREATES A SUCTION TO GIVE CLEAN FLUID AT THE OUTLET.***
- THE MAINTENO CAN BE FLUSHED ONLINE BY OPENING THE VALVE. THE VENTURI EFFECT CREATED INSIDE ENABLES MAXIMUM REMOVAL OF ALL THE SOLID PARTICLES INSIDE THE STRAINER.***
- AFTER CLOSING THE VALVE THE MAINTENO IS NOW AS CLEAN AS NEW.***

DIMENSIONAL DETAIL



DIMENSIONAL DETAIL:

SR NO.	INLET SIZE	A	B	C	BALL VALVE SIZE
1	15/20NB	135	25	110	
2	25 NB	170	45	110	15 NB
3	32/40 NB	195	45	140	15 NB
4	50 NB	255	60	175	25 NB
5	80 NB	300	75	275	40 NB
6	100 NB	360	130	410	50 NB
7	125 NB	500	130	440	50 NB
8	150 NB	500	130	440	50 NB
9	200 NB	605	150	570	50 NB
10	250NB	650	180	710	50 NB
11	300NB	820	210	830	50 NB
12	350 NB	885	230	990	50 NB

MATERIAL OF CONSTRUCTION:

SR.NO	DESCRIPTION	MOC
1	SCREEN	SS304, 0.8mm PERF. SHEET
2	BODY	M.S. FOR Y TYPE. M.S./SS304 FOR T TYPE
3	INLET PIPE & FLANGES	M.S./ SS304 WITH #150 CLASS FLANGES
4	BALL VALVE	BRASS WITH SS INTERNALS
5	GASKETS	ASBESTOS FREE
6	BACKFLUSH CONNECTION	1" SIZE, M.S. / SS304

Available Sizes & Pipe Connections:

15NB, 20NB & 25NB Y-type screwed BSPT/NPT. 25NB, 40NB UP TO 350 NB T-type Flanged to ASA 150# Available in both MS and SS Body construction. Other flange ratings can be provided on request.

Screen Details: Fitted as standard with a S.S. screen having perforation of 0.8 mm Dia. and other perforations are available to special order.

Limiting Conditions: Max. Op. Pr. = 10 bar / Max Op. Temp. = 180°C / Cold hyd. test pr. = 15 bars.

For sizes upto 50nb higher pressure and Temperature ratings can be provided on request.

Stand Alone Features

- The unique feature of flow from inside to outside the screen cylinder helps to
 - collect the solid particles.
 - blowdown the collected solid particles with the help of the flow itself.
- Flushing and back flushing takes place in one stroke itself.
- The ratios of screening area to flow area is 2 to 4 which is 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**
- Online cleaning results into tremendous savings in terms of
 - total prevention of shutdowns
 - continuous hassle free running of down the line equipments
 - saving of manpower for opening and cleaning of strainers
 - loss due to leakages because of opening of bypasses and saving by elimination the requirement of installing of any duplex or standby strainers.



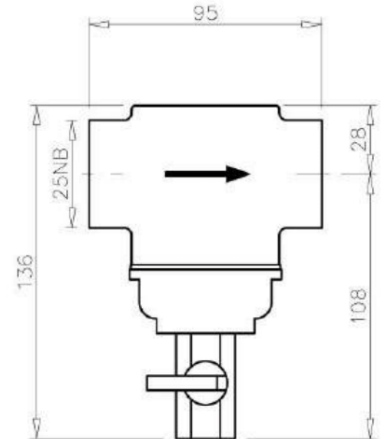
MAINTENO™ – D – filtration/straining of low temperature low pressure applications onlineClean the strainer online by just opening a valve.

A simple but very effective solution for filtration of water and air before equipment inlet for the protection of the equipment and their long life

Applications.....



- Low temperature low pressure industrial air and water application.
- To be installed at the air/water inlet of any equipment using air or water.
- Economic cost and facility to view filtrate enables it to be a very effective filter for domestic application and protection of domestic equipments using water like washing machine, geysers, R.O filters, etc.
- Very suitable for continuous process applications as the strainer element can be cleaned online by just opening the bottom valve.
- Ideal for applications where low pressure drops are important as the pressure drop across the strainer is zero.



DIMENSIONAL DETAIL.

STANDARD SIZE :
25NB with female threaded ends, BSPT.

MOC : Body – M.S. powder coated.
Filter screen – Double layered SS304 screen housed in aluminium caps.
Bottom bowl – transparent polycarbonate for viewing of material collected.

INDOANUSHKA RANGE OF PRODUCTS.

- Double window sight glass (MULTIVIEW)
- Steam traps – thermodynamic type, float type, thermostatic type and inverted bucket type.
- Steam injector (THERMOJECT) – for direct injection of steam
- MUTINY - Steam operated condensate return pumps
- Flash Vessel
- Speciality strainers (MAINTENO) (Y-type with blowdown valve, T-type with online blowdown facility)
- Disc check type non return valve
- Moisture separators
- TRPS - Structure mounted flash recovery and condensate handling plants..

SOME OF OUR VALUED CUSTOMERS.....

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|--|--|---|--|
| • I O CL- Vadodara / Barauni | • Shree Swami Harigiri Paper Mills Ltd | • Cadila Pharma Ltd | • Loxim Industries Limited |
| • Nagarjuna Fertilizer And Chemicals Limited | • Ajanta Paper & General Products Ltd | • Glaxo Smithcline Ltd | • Suyog Dye Chemie Pvt.Ltd |
| • Gujarat State Fertilizers Corporation. | • Anand Paper Mills Pvt Ltd | • Cadila Zydus Ltd | • Huntsman Group |
| • Sun Pharmaceutical Industries Limited | • Narmada Textiles | • Danopharm Chemicals | • Bms Chemie |
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| | | • Kgn Enterprises | • Gujarat Organics Ltd. |
| | | • UPL Group. | • Gulbrandson Chemicals Pvt Ltd |
| | | • Solvey Speciality Chemicals pvt. Ltd. | |

And The List Is Growing.....