

TEMPORARY STRAINERS & Y-STRAINERS



ITE.
INDUSTRIAL TECHNICAL EQUIPMENT

INTRODUCTION



I.T.E. is an Italian company established in 1998 from the merge between 2 companies, one specialized in trading and one in machining activities, both operating in the Oil & Gas field since 1980. I.T.E. is one of the largest Italian and European manufacturers of valves and fittings for the installation of industrial instruments, mainly in O&G and Energy sectors, with a huge production of: **Needle Valves, Instrument Manifolds, Ball Valves, Pots & Siphons, Compression Fittings, Check Valves, Forged Globe Neele Valves, Adapters/Fittings, Fire Sensors, Sampling Systems, Protection Boxes.**

I.T.E. is specialized also on tailor-made solutions, on request complete packages can be provided to meet customer's needs.

I.T.E. is a flexible and customer oriented company, the manufacturing plant is equipped with different CNC machines, automatic welding machines and an automatic warehouse with different semi-finished standard products, this structure allows us to be reliable partner with a fast response to the customer needs.

I.T.E. products are 100% engineered, manufactured, assembled and tested in Italy, all the products have the traceability system so that we are able to provide the best assistance to customers also specially during maintenance activities providing the right product/component.



FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from I.T.E. s.r.l., its authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met. The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by I.T.E. s.r.l. and its subsidiaries at any time without notice.

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FEATURES

Our industrial strainer line — encompassing Temporary Strainers and Y-Strainers — is engineered to provide advanced protection and purification in pressurized piping systems. Solid contaminants suspended in process fluids can cause severe damage, premature wear, or jamming of downstream critical equipment such as control valves, pumps, heat exchangers, flow meters, and compressors. Installing our strainers ensures seamless plant operational continuity while significantly reducing emergency maintenance costs and unscheduled downtime.

TEMPORARY STRAINERS

Temporary strainers are designed to protect downstream critical equipment (pumps, control valves, flow meters, and heat exchangers) during piping system commissioning and start-up operations. Installed directly between line flanges, they effectively capture welding slag, scale, construction debris, and foreign particles. Once line flushing is complete and fluid cleanliness is established, they can be easily removed or replaced with permanent filtration elements.

Wafer / Inter-Flange Design

Designed for quick sandwich installation between standard ASME B16.5 / EN 1092-1 flanges (RF, FF, RTJ).

Versatile Geometries

Available in Conical (Witch Hat), Basket, and Flat Plate configurations to suit layout and differential pressure needs.

Reversible Flow Options

Engineered for either Inside-to-Outside or Outside-to-Inside flow directions based on process requirements.

High-Grade Materials

Manufactured standard in Stainless Steel AISI 304/304L, AISI 316/316L, Duplex, Super Duplex, or exotic alloys.

Custom Filtration Rating

Heavy-duty perforated plate lining option with fine wire mesh (from 20 to 200 mesh) for fine filtration.

Color-Coded / Extended Signal Tab

Includes a protruding tab stamped with size, rating, and mesh size for immediate operational visibility.



FEATURES

Y-STRAINERS

Y-Strainers provide a compact and highly effective permanent solution for continuous fluid, gas, and steam filtration in pressurized pipelines. Featuring a streamlined "Y" shape design, they deliver high flow efficiency with minimal pressure drops. The angled screen chamber and cover drain/blow-off plug allow for fast in-line maintenance and basket cleaning without removing the valve body from the pipeline.

Design & Construction Standards

Engineered in compliance with ASME B16.34, EN 12516, with face-to-face dimensions to ASME B16.10 / EN 558.

Multiple End Connections

Available with Flanged (RF, RTJ), Threaded (NPT/BSPP), Socket Weld (SW), or Butt Weld (BW) ends.

Heavy-Duty Screen Basket

Removable stainless steel element featuring high Open Area Ratio (OAR) to optimize flow rate and lower pressure drop.

Drain / Blow-off Connection

Cover fitted with a drain plug allowing quick line flushing and sediment evacuation without disassembly.

High Pressure / Temp Ratings

Available from ASME Class 150 up to Class 2500 (PN 10 to PN 400) for severe service applications.

Advanced Sealing & Cover Options

Flanged covers with spiral wound gaskets (SWG) or quick-opening covers for rapid maintenance.

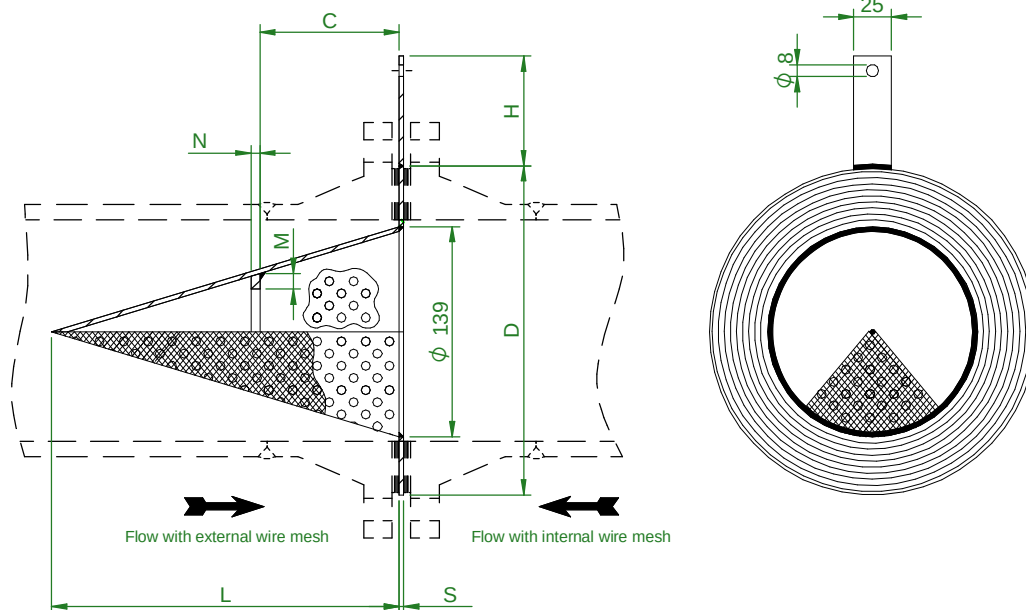


TEMPORARY STRAINERS FOR ASME B16.5 FLANGE

The strainer is designed to be installed between ANSI 150, 300, 600, 900, 1500 and 2500 flanges, with ring joint finish (RF), standard up to ANSI 600, or raised face spiral serrated finish (RJ), standard from ANSI 900 upwards.

In the construction of the strainers, perforated plate is used in various degrees of filtration, defined by the customer, in all types of steel including special materials.

Strainers may also be manufactured to the customer's own drawing.



NPS	DN	SCH. MAX	L	A	D	S	H	M	N	C
1"	25	80	40	22	51	3	100	-	-	-
1.1/2"	40	80	60	35	73	3	100	-	-	-
2"	50	80	80	45	92	3	100	-	-	-
2.1/2"	65	80	95	52	105	3	100	-	-	-
3"	80	80	120	63	127	3	100	-	-	-
4"	100	80	150	87	157	3	100	-	-	-
6"	150	80	230	136	216	3	140	-	-	-
8"	200	80	300	183	270	3	140	-	-	-
10"	250	80	350	233	324	3	140	-	-	-
12"	300	40	400	293	381	3	140	-	-	-
14"	350	40	450	323	413	6	140	15	6	200
16"	400	40	500	371	470	6	140	15	6	220
18"	450	40	550	418	533	6	160	20	6	245
20"	500	40	600	468	584	6	160	20	6	265

GENERAL NOTES TO THE TABLE (ASME B36.10M)

Given dimensions are for reference purposes only. ANSI 150–600 RF rating unless otherwise specified. Coded range up to DN 500 (25") — larger sizes available on request/customer drawing.



HOW TO ORDER

F T R E - 0 1 0 3 R F S 1 0 0 M S L

MODEL

FTRE TEMPORARY STRAINER, EXTERNAL MESH
FTR TEMPORARY STRAINER, INTERNAL MESH

DN FLANGE

00	1"	DN 25
01	1-1/2"	DN 40
02	2"	DN 50
03	2-1/2"	DN 65
04	3"	DN 80
05	4"	DN 100
06	5"	DN 125
07	6"	DN 150
10	8"	DN 200
14	10"	DN 250
16	12"	DN 300
18	14"	DN 350
20	16"	DN 400
22	18"	DN 450
23	20"	DN 500

RATING

01	ANSI 150
03	ANSI 300
06	ANSI 600
09	ANSI 900
15	ANSI 1500
25	ANSI 2500

SURFACE FINISH

RF	RAISED FACE SPIRAL SERRATED <=	standard up to ANSI 600
RJ	RING JOINT <=	standard from ANSI 900 upwards

MATERIAL

A	ASTM A105
C	ASTM A182 Gr. F304L
S	ASTM A182 Gr. F316L
D	ASTM A182 Gr. F51
E	ASTM A182 Gr. F55
F	ASTM B564 UNS N04400
G	ASTM B564 UNS N10276
I	ASTM B564 UNS N06625

N. MESH EXTERNAL/INTERNAL WIRE

020M	20 MESH
040M	40 MESH
050M	50 MESH
060M	60 MESH
080M	80 MESH
100M	100 MESH
150M	150 MESH
200M	200 MESH
325M	325 MESH

MESH MATERIAL

A	ASTM A105
C	ASTM A182 Gr. F304L
S	ASTM A182 Gr. F316L
D	ASTM A182 Gr. F51
E	ASTM A182 Gr. F55
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OPTIONS

L	LOX CLEANING
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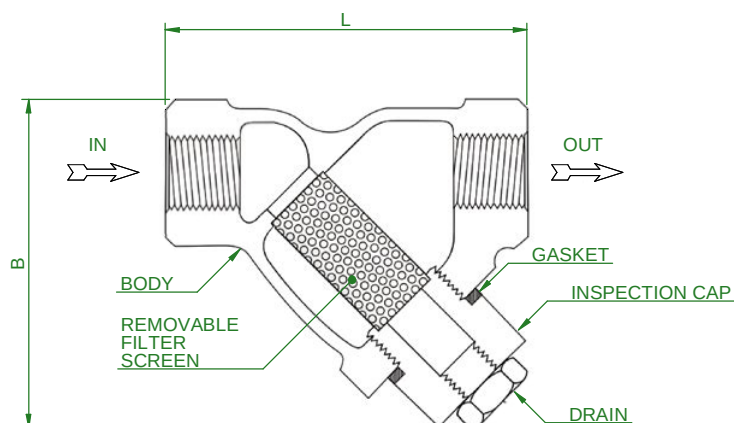


Y-STRAINERS

Y-strainers type FY feature a removable screen, with welding or threaded connections; all strainers are fitted with a threaded drain plug.

Made of cast steel and special alloys according to ASME/MSS SP-83 rating classes, they are available with NPT threaded, welded (socket or butt) or ANSI raised-face flanged connections.

Special executions are available on request.



DIMENSION								
DN	1/4"	3/8"	1/2"	3/4"	1"	1"-1/4"	1"-1/2"	2"
L (mm)	90	90	90	110	130	160	160	190
B (mm)	60	60	60	75	93	120	120	160
WEIGHT (Kg)	0.7	0.7	0.7	1.2	2	4.5	4,5	6

FILTERING GRADE TABLE							
MESH	N. MESH	N.MESH	YARN THK.	MESH LIG.	FREE SURF.	Ø mm	µm
10	12.96	15	0.50	2.28	67.2	1.410	1410
18	41.99	51	0.36	1.18	58.3	1.000	1000
20	51.84	81	0.32	1.07	51.8	0.840	840
25	81.00	100	0.24	0.87	61.3	0.710	710
30	116.65	120	0.22	0.706	58.6	0.590	590
35	159.00	196	0.20	0.594	55.2	0.500	500
40	207.00	256	0.20	0.494	49.7	0.420	420
45	262.00	320	0.20	0.417	46.2	0.350	350
50	324.00	420	0.16	0.396	51.8	0.297	297
60	476.00	576	0.14	0.323	47.7	0.250	250
70	635.00	820	0.12	0.277	49.7	0.210	210
80	829.00	1025	0.11	0.247	51.8	0.177	177
100	1296	1550	0.09	0.188	45.6	0.149	149
120	1866	2300	0.08	0.151	42.5	0.125	125
140	2540	3160	0.06	0.138	48.3	0.105	105
170	3758	4300	0.05	0.109	43.7	0.088	88
200	5184	6200	0.05	0.089	40.9	0.074	74
230	6237	8800	0.05	0.076	36.1	0.062	62
270	10200	10800	0.04	0.059	34.8	0.053	53
325	15876	16500	0.032	0.050	35.2	0.044	44
400	18987	24000	0.033	0.038	30.0	0.037	37
500	-	38750	-	-	-	0.030	30
625	-	60000	-	-	-	0.020	20
1000	-	160000	-	-	-	0.015	15
1250	-	240000	-	-	-	0.010	10
2500	-	960000	-	-	-	0.005	5



HOW TO ORDER

				F	Y	-	S	1	5	0	0	S	1	2	N	F	2	0	0	M	S
MODEL																					
FY	Y-STRAINER																				
RATING																					
S800	Class 800#	MSS SP-83 / ASME B16.11																			
S1500	Class 1500#	MSS SP-83 / ASME B16.11																			
S3000	Class 3000#	ASME B16.11																			
S6000	Class 6000#	ASME B16.11																			
MATERIAL																					
A	ASTM A105																				
C	ASTM A182 Gr. F304L																				
S	ASTM A182 Gr. F316L																				
D	ASTM A182 Gr. F51																				
E	ASTM A182 Gr. F55																				
F	ASTM B564 UNS N04400																				
G	ASTM B564 UNS N10276																				
I	ASTM B564 UNS N06625																				
DIMENSION																					
4	1/4"																				
6	3/8"																				
8	1/2"																				
12	3/4"																				
16	1"																				
24	1-1/2"																				
CONNECTIONS																					
N	NPT																				
NF	NPT FEMALE																				
SW	SOCKET WELD																				
BW	BUTT WELD																				
RF	FLANGED ANSI RAISED FACE																				
N. MESH WIRE																					
020MS	20 MESH																				
040MS	40 MESH																				
100MS	100 MESH																				
200MS	200 MESH																				
3H	EXPANDED METAL MESH, 3 MM HOLE																				
250MS	250 MICRON FILTRATION																				





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