

#### GENERAL NOTE - STEAM TRAPS PRODUCTION

The thermodynamic type of steam trap is created for standard applications, designed for standards customer's requirements, it's obtained from a machined forged billet. Steam traps suitable for high pressures and capacities, usable for all applications. **how it works**:

1- The disc is free and rests on the housing; in the steam trap there is no fluid of any kind.

**2-** Start-up: when the condensate begins to circulate, the disc is prevented from adhering to the housing, making the steam trap discharge the excess condensate.

3- As the system heats up, steam begins to arrive, traveling faster than the condensate due to the effect of Bernoulli's principle; a reduction in pressure is generated inside the housing, forcing the disc to adhering to it and trapping the steam inside.

**4-** When the condensate arrives, the speed of flow will reduce, releasing the disc from the housing and allowing the steam trap to discharge the excess condensate.

All of Blu Zac products have been designed to satisfy the requests and specific requirements of the customer, including high pressure applications.

#### MAIN FEATURES

Reduced dimension and weight simple and reliable. It discharges air. It withstands water hammer. Condensate discharge is intermittent. Some loss of live steam.

#### APPLICATION

- Steam mains
- Tracing lines
- Turbines
- Marine applications
- Presses



# CONNECTIONS Buttweld BW ANSI B16.25 Flanged FLG ANSI B16.5 Socket Welding Socket NPT ANSI B1.20.1

# SIZES from ¼" to 1"

ANSI BS21

BSP

Screwed

## LIMITING CONDITIONS

		( according	10 100 0002 1			
Steam Trap rating		600				
Max Working Differential Pressure		50 bar				
Min Working Differential Pressure			0,4	bar		
PMOB: max working back pressure			80	0%		
Body and Cover Material	A105 A350 LF2	A182 F304 A182 F316	A182 F304L A182 F316L	A182 F11 Cl.2 A182 F22 Cl.3 A182 F91	A182 F321 A182 F347	A182 F44 A182 F51 A182 F53
PMA: Max allowable pressure	102bar at 315°C	99bar at 425°C	83bar at 260°C	103bar at 480°C	99bar at 425°C	103bar at 480°C
TMA: max allowable temperature	400°C at 100bar	530°C at 95bar	425°C at 70bar	530°C at 100bar	530°C at 95bar	530°C at 100bar
PMO: max working pressure	102bar at 315°C	99bar at 425°C	83bar at 260°C	103bar at 480°C	99bar at 425°C	103bar at 480°C
TMO: max working temperature	400°C at 100bar	530°C at 95bar	425°C at 70bar	530°C at 100bar	530°C at 95bar	530°C at 100bar

#### GENERAL NOTE – STEAM TRAPS STANDARD PRODUCTION







	Size	1/2"	3/4"	1"	1.1/4"	1.1/2″	2″
S (mm) for S	SW,NPT or BSP	75	75	75	145	145	145
Sbu	v (mm)	75	75	75	75	75	230
A (mm)		78	78	78	78	78	78
В	(mm)	53	53	53	53	53	53
67	150RF	155	160	165	240	255	265
3F (mm)	300RF	165	170	175	250	260	270
(11111)	600RF	175	180	190	250	265	275
6514/	150RF	175	180	190	190	200	360
SFW (mm)	300RF	180	190	200	210	215	370
(11111)	600RF	195	205	215	225	230	390
14/4	150RF	2	2,4	3,2	4	4,5	7,7
vvt (ka)	300RF	2,8	4,0	4,8	6,2	7,5	9,5
(\\g)	600RF	2.9	4.1	4.9	6.3	7.7	10.5

#### Note 1:

the connection SW, NPT-F or BSP for size 1.1/4", 1.1/2" and 2" will be made with half coupling welded on the body;

the connection BW for size 1.1/4", 1.1/2" will be made worked the body but for size 2" will be made with half coupling welded on the body;; the connection SW, NPT-F or BSP for size smaller than 1.1/4" will be made worked the body;

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POS	DESCRIPTION	MATERIALS	MATERIALS	MATERIALS	MATERIALS	MATERIALS	SPARES
1	Body	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	ASTM A182 F22 Cl.3	
2	Cover	ASTM A350 LF2	ASTM A350 LF2	ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F22 Cl.3	Х
3	Disc	AISI-420	AISI-420	AISI-420	AISI-420	AISI-420	X

Note 1: Other Materials and Dimensions on Request

Note 2: Material A182 F316 is dual grade A182 F316/316L



#### HOW TO INSTALL:

This steam trap can work in any position, however it should be preferably installed in horizontal line.

#### HOW TO MAINTENANCE:

- 1. Before starting, wear the required safety equipment and follow
- all plant safety procedures.
- 2. Stop the main line to make sure that no residues
- of dangerous waste fluid could be emitted.
- 3. Unscrew the cover (2) and remove-it.
- 4. Remove: disc(3).
- 5. Clean inside the body.
- 6. Reposition the cover(2), then screw it.
- 7. Slowly start the plant and check if there are any line losses.
- 11. Apply a label to the trap with the maintenance date.

ORDER CODE i.e. TTD48 1/2" 150RF A182 F53 TTD48 1" BW-XS A182 F91



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#### GENERAL NOTE - STEAM TRAPS PRODUCTION

The thermodynamic type of steam trap is created for standard applications, designed for standards customer's requirements, it's obtained from a machined forged billet. Steam traps suitable for high pressures and capacities, usable for all applications. **how it works**:

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**2-** Start-up: when the condensate begins to circulate, the disc is prevented from adhering to the housing, making the steam trap discharge the excess condensate.

3- As the system heats up, steam begins to arrive, traveling faster than the condensate due to the effect of Bernoulli's principle; a reduction in pressure is generated inside the housing, forcing the disc to adhering to it and trapping the steam inside.

**4-** When the condensate arrives, the speed of flow will reduce, releasing the disc from the housing and allowing the steam trap to discharge the excess condensate.

All of Blu Zac products have been designed to satisfy the requests and specific requirements of the customer, including high pressure applications.

#### MAIN FEATURES

Reduced dimension and weight simple and reliable. It discharges air. It withstands water hammer. Condensate discharge is intermittent. Some loss of live steam.

#### APPLICATION

- Steam mains
- Tracing lines
- Turbines
- Marine applications
- Presses

3000							
2000							
1000				1		$\geq$	_
700 500			1	2			
400		Ŧ					
200	71				++++		 
100							
70			_				_

DISCARGE CAPACITY

	CONNEC	CTIONS
Buttweld	BW	ANSI B16.25
Flanged	FLG	ANSI B16.5
Socket Welding	SW	ANSI B16.11
Screwed	NPT BSP	ANSI B1.20.1 ANSI BS21

SIZES from ¼" to 2.1/2"

( according to ISO 6552 )						
Steam Trap rating		800				
Max Working Differential Pressure		50 bar				
Min Working Differential Pressure		0,2 bc	r for size under ¾" د	and 0,5bar for size o	ver 1″	
PMOB: max working back pressure		80%				
Body and Cover Material	A105 A350 LF2	A182 F304 A182 F316	A182 F304L A182 F316L	A182 F11 Cl.2 A182 F22 Cl.3 A182 F91	A182 F321 A182 F347	A182 F44 A182 F51 A182 F53
PMA: Max allowable pressure	136bar at 385°C	132bar at 500°C	110bar at 425°C	138bar at 450°C	132bar at 500°C	138bar at 500°C
TMA: max allowable temperature	425°C at 110bar	530°C at 95bar	425°C at 124bar	530°C at 95bar	530°C at 95bar	530°C at 95bar
PMO: max working pressure	136bar at 385°C	132bar at 500°C	110bar at 425°C	138bar at 450°C	132bar at 500°C	138bar at 500°C
TMO: max working temperature	425°C at 110bar	530°C at 95bar	425°C at 124bar	530°C at 95bar	530°C at 95bar	530°C at 95bar

LIMITING CONDITIONS

#### GENERAL NOTE - STEAM TRAPS STANDARD PRODUCTION



**Doc. n°:** 11E231200 Rev.00

## TERMODYNAMIC – STEAM TRAPS TTD49

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Italian Filtration Solutions

BLU

	Size	1/2"	3/4"	1"	1.1/4"	1.1/2"	2″	2.1/2"
S (	mm)	105	105	120	155	155	155	155
Α(	mm)	120	120	131	172	172	190	190
В (	mm)	50	50	60	60	60	80	80
н (	mm)	105	105	105	140	140	150	150
65	150RF	185	190	210	250	255	255	-
SF (mm)	300RF	195	200	220	265	270	270	-
(11111)	600RF	205	210	235	280	285	285	-
0	150RF	89	99	108	117	127	152	178
(mm)	300RF	95	117	124	133	156	165	190
(11111)	600RF	95	117	124	133	156	165	190
CEN/	150RF	205	215	235	240	250	285	300
5FVV (mm)	300RF	215	225	245	255	260	300	310
(11111)	600RF	225	235	260	265	275	310	325
14/4	150RF	5	5,4	6,2	14	14,4	16,2	17
(ka)	300RF	5,8	7	7,8	17	17,4	18	20
(^9)	600RF	6	7.3	8	17	17.5	20.2	22



DIMENSION TOLLERANCE					
		DIMENSION			
SIZE	S SF & SFW & A & C & H				
1/2" to 1"	± 1	± 1,5			
1" to 3"	±1	± 2			

		lian Filtration lutions	TERMODYN	AMIC – STEAN <b>TTD49</b>	1 TRAPS	Doc. n°:	11E231200 Rev.00 Pag.3/3
POS	DESCRIPTION	MATERIALS	MATERIALS	MATERIALS	MATERIALS	MATERIALS	SPARES
1	Body	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	ASTM A182 F22 Cl.3	
2	Cover	ASTM A350 LF2 or ASTM A182 F316L	ASTM A350 LF2 or ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F22 Cl.3	
3	Plug	ASTM A350 LF2 or ASTM A182 F316L	ASTM A350 LF2 or ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F22 Cl.3	
4	Seat	AISI-420	AISI-420	AISI-420	AISI-420	AISI-420	X
5	Gasket Seat	F-Graphite	F-Graphite	F-Graphite	F-Graphite	F-Graphite	Х
6	Gasket Cover	F-Graphite W-316	F-Graphite W-316	F-Graphite W-316	F-Graphite W-316	F-Graphite W-316	Х
7	Gasket Plug	SPW: F-Graphite W-316	SPW: F-Graphite W-316	SPW: F-Graphite W-316	SPW: F-Graphite W-316	SPW: F-Graphite W-316	X
8	Disc	AISI-420	AISI-420	AISI-420	AISI-420	AISI-420	Х
9	Screen	AISI-316	AISI-316	AISI-316	AISI-316	AISI-316	х

Note 1: Other Materials and Dimensions on Request Note 2: Material A182 F316 is dual grade A182 F316/316L



#### HOW TO INSTALL:

This steam trap can work in any position, however it should be preferably installed in horizontal line.

#### HOW TO MAINTENANCE:

1. Before starting, wear the required safety equipment and follow all plant safety procedures.

- 2. Stop the main line to make sure that no residues
- of dangerous waste fluid could be emitted.
- 3. Unscrew the cover (2) and remove gasket(5).
- 4. Unscrew the cover.
- 5. Remove: disc(8), gasket cover(6), seat(4) and gasket seat(5).
- 6. Clean inside the body.
- 7. Replace seat(4), gasket seat(5) and gasket cover(6)
- 9. Reposition the cover(2), then screw it.
- 10. Slowly start the plant and check if there are any line losses.
- 11. Apply a label to the trap with the maintenance date.

#### HOW TO SERVICE THE STRAINER:

- 1.Remove the plug(3)
- 2.Clean or change the screen(9).
- 3. Change the gasket(7) and rescrew the plug(3).

#### ORDER CODE

*i.e.* TTD49 2" 150RF A182 F53 TTD49 1" BW-XS A182 F91



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#### MAIN FEATURES

Reduced dimension and weight simple and reliable. It discharges air. It withstands water hammer. Condensate discharge is intermittent. Some loss of live steam.

#### APPLICATION

Steam mains

Tracing lines

- Turbines
- Marine applications
- Presses

2000					
1000				$\swarrow$	
700 500 400					
200	#	T			

DISCARGE CAPACITY

	CONNEC	CTIONS
Buttweld	BW	ANSI B16.25
Flanged	FLG	ANSI B16.5
Socket Welding	SW	ANSI B16.11
Screwed	NPT BSP	ANSI B1.20.1 ANSI BS21

# SIZES from ¼" to 2.1/2"

LIMITING CONDITIONS

Steam Trap rating		800					
Max Working Differential Pressure			50	bar			
Min Working Differential Pressure		0,2 ba	ar for size under ¾″ d	and 0,5bar for size o	ver 1″		
PMOB: max working back pressure		80%					
Body and Cover Material	A105 A350 LF2	A182 F304 A182 F316	A182 F304L A182 F316L	A182 F11 Cl.2 A182 F22 Cl.3 A182 F91	A182 F321 A182 F347	A182 F44 A182 F51 A182 F53	
PMA: Max allowable pressure	136bar at 385°C	132bar at 500°C	110bar at 425°C	138bar at 450°C	132bar at 500°C	138bar at 500°C	
TMA: max allowable temperature	425°C at 110bar	530°C at 95bar	425°C at 124bar	530°C at 95bar	530°C at 95bar	530°C at 95bar	
PMO: max working pressure	136bar at 385°C	132bar at 500°C	110bar at 425°C	138bar at 450°C	132bar at 500°C	138bar at 500°C	
TMO: max working temperature	425°C at 110bar	530°C at 95bar	425°C at 124bar	530°C at 95bar	530°C at 95bar	530°C at 95bar	

#### GENERAL NOTE - STEAM TRAPS STANDARD PRODUCTION



**Doc. n°:** 11B071536 *Rev.00* 

## TERMODYNAMIC – STEAM TRAPS TTD50

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Italian Filtration Solutions

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S	Size	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"
S (I	nm)	105	105	120	155	155	155	155
S for B	W (mm)	105	105	120	120	120	155	155
A (I	mm)	120	120	136	168	168	168	168
В (І	mm)	51	51	70	95	95	95	95
Н (	mm)	102	102	111	161	161	161	161
	150RF	185	190	210	250	255	255	-
3F (mm)	300RF	195	200	220	265	270	270	-
(11111)	600RF	205	210	235	280	285	285	-
0	150RF	89	99	108	117	127	152	178
(mm)	300RF	95	117	124	133	156	165	190
(11111)	600RF	95	117	124	133	156	165	190
6	150RF	120	121	138	174	179	192	205
(mm)	300RF	120	130	146	182	194	198	211
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	600RF	120	130	146	182	194	198	211
6514/	150RF	205	215	235	240	250	285	300
5FVV (mm)	300RF	215	225	245	255	260	300	310
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	600RF	225	235	260	265	275	310	325
14/#	150RF	2,6	3	5,1	9,3	9,9	11,9	15,3
(ka)	300RF	3,4	4,1	6,7	11,5	12,9	13,7	17,3
(~9/	600RF	3,4	4,6	6,7	11,5	12,9	15,9	19,5

Note 1: The Steam Traps with size 2.1/2" have the possible connection only BW or FLANGED Full weld, isn't possible connection SW, NPT, BSP or FLANGED fillet weld.

DIMENSION TOLLERANCE					
	DIMENSION				
SIZE	s	SF & SFW & A & C &H			
1/2" to 1"	±1	± 1,5			
1" to 3"	±1	± 2			



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POS	DESCRIPTION	MATERIALS	MATERIALS	MATERIALS	MATERIALS	MATERIALS	SPARES
1	Body	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	ASTM A182 F22 Cl.3	
		ASTM A350 LF2	ASTM A350 LF2				
2	Cover	or	or	ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F22 Cl.3	
		ASTM A182 F316L	ASTM A182 F316L				
		ASTM A350 LF2	ASTM A350 LF2				
3	Plug	or	or	ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F22 Cl.3	
		ASTM A182 F316L	ASTM A182 F316L				
4	Seat	AISI-420	AISI-420	AISI-420	AISI-420	AISI-420	x
5	Gasket Seat	F-Graphite	F-Graphite	F-Graphite	F-Graphite	F-Graphite	X
6	Gasket Cover	F-Graphite W-316	X				
7	Casket Dlug	SPW:	SPW:	SPW:	SPW:	SPW:	v
	Gasket Plug	F-Graphite W-316	X				
8	Disc	AISI-420	AISI-420	AISI-420	AISI-420	AISI-420	X
9	Screen	AISI-316	AISI-316	AISI-316	AISI-316	AISI-316	X

Note 1: Other Materials and Dimensions on Request

Note 2: Material A182 F316 is dual grade A182 F316/316L



#### HOW TO INSTALL:

This steam trap can work in any position, however it should be preferably installed in horizontal line.

#### HOW TO MAINTENANCE:

1. Before starting, wear the required safety equipment and follow all plant safety procedures.

- 2. Stop the main line to make sure that no residues
- of dangerous waste fluid could be emitted.
- 3. Unscrew the cover (2) and remove gasket(5).
- 4. Unscrew the cover.
- 5. Remove: disc(8), gasket cover(6), seat(4) and gasket seat(5).
- 6. Clean inside the body.
- 7. Replace seat(4), gasket seat(5) and gasket cover(6)
- 9. Reposition the cover(2), then screw it.
- 10. Slowly start the plant and check if there are any line losses.
- 11. Apply a label to the trap with the maintenance date.

#### HOW TO SERVICE THE STRAINER:

- 1.Remove the plug(3)
- 2.Clean or change the screen(9).
- 3. Change the gasket(7) and rescrew the plug(3).

#### ORDER CODE

*i.e.* TTD50 2" 150RF A105 TTD50 1" BW-XS A350 LF2



**Doc. n°:** 11D110835 Rev.00

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#### GENERAL NOTE - STEAM TRAPS PRODUCTION

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#### how it works:

**1**- The disc is free and rests on the housing; in the steam trap there is no fluid of any kind.

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3- As the system heats up, steam begins to arrive, traveling faster than the condensate due to the effect of Bernoulli's principle; a reduction in pressure is generated inside the housing, forcing the disc to adhering to it and trapping the steam inside.

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#### MAIN FEATURES

Reduced dimension and weight simple and reliable. It discharges air. It withstands water hammer. Condensate discharge is intermittent. Some loss of live steam.

#### APPLICATION

- □ Steam mains
- Tracing lines
- Turbines
- Marine applications
- Presses

#### DISCARGE CAPACITY



CONNECTIONS							
Buttweld	BW	ANSI B16.25					
Flanged	FLG	ANSI B16.5					
Socket Welding	SW	ANSI B16.11					
Screwed	NPT BSP	ANSI B1.20.1 ANSI BS21					
Flanged Socket Welding Screwed	FLG SW NPT BSP	ANSI B16.25 ANSI B16.5 ANSI B16.11 ANSI B1.20.1 ANSI B521					

SIZES	
from ¼" to 2.1/2"	

LIMITING CONDITIONS ( according to ISO 6552 )							
Steam Trap rating			80	00			
Max Working Differential Pressure			50	bar			
Min Working Differential Pressure		0,2 bc	nr for size under ¾″ a	nd 0,5bar for size o	ver 1″		
PMOB: max working back pressure		80%					
Body and Cover Material	A105 A350 LF2	A182 F304 A182 F316	A182 F304L A182 F316L	A182 F11 Cl.2 A182 F22 Cl.3 A182 F91	A182 F321 A182 F347	A182 F44 A182 F51 A182 F53	
PMA: Max allowable pressure	136bar at 385℃	132bar at 500°C	110bar at 425°C	138bar at 450°C	132bar at 500°C	138bar at 500°C	
TMA: max allowable temperature	425°C at 110bar	530°C at 95bar	425°C at 124bar	530°C at 95bar	530°C at 95bar	530°C at 95bar	
PMO: max working pressure	136bar at 385°C	136bar at 385°C 132bar at 500°C 110bar at 425°C 138bar at 450°C 132bar at 500°C 138bar at 500°C					
TMO: max working temperature	425°C at 110bar	530°C at 95bar	425°C at 124bar	530°C at 95bar	530°C at 95bar	530°C at 95bar	

#### GENERAL NOTE – STEAM TRAPS STANDARD PRODUCTION



**Doc. n°:** 11D110835 Rev.00

## TERMODYNAMIC – STEAM TRAPS TTD50L

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Italian Filtration Solutions



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5	lize	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"
S (I	nm)	105	105	120	155	155	155	155
S for B	W (mm)	105	105	120	120	120	155	155
Α (	mm)	120	120	136	168	168	168	168
В (І	nm)	51	51	70	95	95	95	95
Н (	mm)	102	102	111	161	161	161	161
	150RF	185	190	210	250	255	255	-
3F (mm)	300RF	195	200	220	265	270	270	-
(11111)	600RF	205	210	235	280	285	285	-
0	150RF	89	99	108	117	127	152	178
(mm)	300RF	95	117	124	133	156	165	190
(11111)	600RF	95	117	124	133	156	165	190
6	150RF	120	121	138	174	179	192	205
(mm)	300RF	120	130	146	182	194	198	211
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	600RF	120	130	146	182	194	198	211
6514/	150RF	205	215	235	240	250	285	300
5FVV (mm)	300RF	215	225	245	255	260	300	310
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	600RF	225	235	260	265	275	310	325
14/#	150RF	2,6	3	5,1	9,3	9,9	11,9	15,3
(ka)	300RF	3,4	4,1	6,7	11,5	12,9	13,7	17,3
(^9)	600RF	3,4	4,6	6,7	11,5	12,9	15,9	19,5

Note 1: The Steam Traps with size 2.1/2" have the possible connection only BW or FLANGED Full weld, isn't possible connection SW, NPT, BSP or FLANGED fillet weld.



DIMENSION TOLLERANCE				
		DIMENSION		
SIZE	s	SF & SFW & A & C &H		
1/2" to 1"	±1	± 1,5		
1" to 3"	±1	± 2		

		lian Filtration lutions	TERMODYN	AMIC – STEAN TTD50L	Doc. n°:	11D110835 Rev.00 Pag.3/3	
POS	DESCRIPTION	MATERIALS	MATERIALS	MATERIALS	MATERIALS	MATERIALS	SPARES
1	Body	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	ASTM A182 F22 Cl.3	
2	Cover	ASTM A350 LF2 or ASTM A182 F316L	ASTM A350 LF2 or ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F22 Cl.3	
3	Plug	ASTM A350 LF2 or ASTM A182 F316L	ASTM A350 LF2 or ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F22 Cl.3	
4	Seat	AISI-420	AISI-420	AISI-420	AISI-420	AISI-420	X
5	Gasket Seat	F-Graphite	F-Graphite	F-Graphite	F-Graphite	F-Graphite	X
6	Gasket Cover	F-Graphite W-316	F-Graphite W-316	F-Graphite W-316	F-Graphite W-316	F-Graphite W-316	Х
7	Gasket Plug	SPW: F-Graphite W-316	SPW: F-Graphite W-316	SPW: F-Graphite W-316	SPW: F-Graphite W-316	SPW: F-Graphite W-316	X

Note 1: Other Materials and Dimensions on Request

8 Disc

9

Screen

Note 2: Material A182 F316 is dual grade A182 F316/316L

AISI-420

AISI-316

AISI-420

AISI-316



#### HOW TO INSTALL:

AISI-420

AISI-316

This steam trap can work in any position, however it should be preferably installed in horizontal line.

AISI-420

AISI-316

AISI-420

AISI-316

Х

Х

#### HOW TO MAINTENANCE:

1. Before starting, wear the required safety equipment and follow all plant safety procedures.

- 2. Stop the main line to make sure that no residues
- of dangerous waste fluid could be emitted.
- 3. Unscrew the cover (2) and remove gasket(5).
- 4. Unscrew the cover.
- 5. Remove: disc(8), gasket cover(6), seat(4) and gasket seat(5).
- 6. Clean inside the body.
- 7. Replace seat(4), gasket seat(5) and gasket cover(6)
- 9. Reposition the cover(2), then screw it.
- 10. Slowly start the plant and check if there are any line losses.
- 11. Apply a label to the trap with the maintenance date.

#### HOW TO SERVICE THE STRAINER:

Remove the plug(3)
 Clean or change the screen(9).
 Change the gasket(7) and rescrew the plug(3).

#### ORDER CODE

*i.e.* TTD50L 2" 150RF A105 TTD50L 1" BW-XS A350 LF2



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#### GENERAL NOTE - STEAM TRAPS PRODUCTION

The thermodynamic type of steam trap is created for standard applications, designed for standards customer's requirements, it's obtained from a machined forged billet. Steam traps suitable for high pressures and capacities, usable for all applications. how it works:

1- The disc is free and rests on the housing; in the steam trap there is no fluid of any kind.

2- Start-up: when the condensate begins to circulate, the disc is prevented from adhering to the housing, making the steam trap discharge the excess condensate.

3- As the system heats up, steam begins to arrive, traveling faster than the condensate due to the effect of Bernoulli's principle; a reduction in pressure is generated inside the housing, forcing the disc to adhering to it and trapping the steam inside.

4- When the condensate arrives, the speed of flow will reduce, releasing the disc from the housing and allowing the steam trap to discharge the excess condensate.

All of Blu Zac products have been designed to satisfy the requests and specific requirements of the customer, including high pressure applications.

#### MAIN FEATURES

Reduced dimension and weight simple and reliable. It discharges air. It withstands water hammer. Condensate discharge is intermittent. Some loss of live steam.

#### APPLICATION

Steam mains 

Tracing lines

- Turbines
- Marine applications
- Presses

8000 5000 3000					2"
2000			#		1/
700 500 400			1		
200	1				
100 70					

DIFFERENTIAL PRESSURE ( bar )

DISCARGE CAPACITY

CONNECTIONS							
Buttweld	BW	ANSI B16.25					
Flanged	FLG	ANSI B16.5					
Socket Welding	SW	ANSI B16.11					
Screwed	NPT BSP	ANSI B1.20.1 ANSI BS21					

SIZES from ¼" to 2.1/2"

( according to ISO 6552 )								
Steam Trap rating			6	00				
Max Working Differential Pressure			51	bar				
Min Working Differential Pressure		0,2 ba	ar for size under ¾″ o	and 0,5bar for size o	ver 1″			
PMOB: max working back pressure		80%						
Body and Cover Material	A105 A350 LF2	A182 F304 A182 F316	A182 F304L A182 F316L	A182 F11 Cl.2 A182 F22 Cl.3 A182 F91	A182 F321 A182 F347	A182 F44 A182 F51 A182 F53		
PMA: Max allowable pressure	102bar at 315°C	99bar at 425°C	83bar at 260°C	103bar at 480°C	99bar at 425°C	103bar at 480°C		
TMA: max allowable temperature	400°C at 100bar	530°C at 95bar	425°C at 70bar	530°C at 100bar	530°C at 95bar	530°C at 100bar		
PMO: max working pressure	102bar at 315°C	102bar at 315°C 99bar at 425°C 83bar at 260°C 103bar at 480°C 99bar at 425°C 103bar at 480°C						
TMO: max working temperature	400°C at 100bar	530°C at 95bar	425°C at 70bar	530°C at 100bar	530°C at 95bar	530°C at 100bar		

LIMITING CONDITIONS

#### GENERAL NOTE - STEAM TRAPS STANDARD PRODUCTION



Doc. n	•:	11E061500
		Rev.00

2"

120

112

## TERMODYNAMIC – STEAM TRAPS TTD51

3/4"

1/2"

Size

S (mm)

A (mm)

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2.1/2"



Italian Filtration Solutions

BLL



1"

1.1/4"

120

112

1.1/2"

120

112



DIMENSION TOLLERANCE					
DIMENSION					
s	SF & SFW & A & C &H				
±1	± 1,5				
±1	± 2				
	ENSIO 5 ± 1 ± 1				

		lian Filtration lutions	TERMODYN	AMIC – STEAN TTD51	A TRAPS	Doc. n°:	11E061500 Rev.00 Pag.3/3
POS	DESCRIPTION	MATERIALS	MATERIALS	MATERIALS	MATERIALS	MATERIALS	SPARES
1	Body	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	ASTM A182 F22 Cl.3	
2	Cover	ASTM A350 LF2 or ASTM A182 316L	ASTM A350 LF2 or ASTM A182 316L	ASTM A182 316L	ASTM A182 316L	ASTM A182 F22 Cl.3	
3	Plug	ASTM A350 LF2	ASTM A350 LF2	ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F22 Cl.3	
4	Seat	AISI-420	AISI-420	AISI-420	AISI-420	AISI-420	X
5	Gasket Seat	F-Graphite	F-Graphite	F-Graphite	F-Graphite	F-Graphite	X
6	Gasket Cover	F-Graphite W-316	F-Graphite W-316	F-Graphite W-316	F-Graphite W-316	F-Graphite W-316	X
7	Gasket Plug	SPW: F-Graphite W-316	SPW: F-Graphite W-316	SPW: F-Graphite W-316	SPW: F-Graphite W-316	SPW: F-Graphite W-316	X
8	Disc	AISI-420	AISI-420	AISI-420	AISI-420	AISI-420	X
9	Screen	AISI-316	AISI-316	AISI-316	AISI-316	AISI-316	Х

Note 1: Other Materials and Dimensions on Request Note 2: Material A182 F316 is dual grade A182 F316/316L



#### HOW TO INSTALL:

This steam trap can work in any position, however it should be preferably installed in horizontal line.

#### HOW TO MAINTENANCE:

1. Before starting, wear the required safety equipment and follow all plant safety procedures.

2. Stop the main line to make sure that no residues

- of dangerous waste fluid could be emitted.
- 3. Unscrew the cover (2) and remove gasket(5).
- 4. Unscrew the cover.
- 5. Remove: disc(8), gasket cover(6), seat(4) and gasket seat(5).

6. Clean inside the body.

- 7. Replace seat(4), gasket seat(5) and gasket cover(6)
- 9. Reposition the cover(2), then screw it.
- 10. Slowly start the plant and check if there are any line losses.
- 11. Apply a label to the trap with the maintenance date.

#### HOW TO SERVICE THE STRAINER:

1.Remove the plug(3)

- 2.Clean or change the screen(9).
- 3. Change the gasket(7) and re-screw the plug(3).

#### ORDER CODE

*i.e.* TTD51 2" 150RF A105 TTD51 1" BW-XS A350 LF2



**Doc. n°:** 11D110840 Rev.00

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#### GENERAL NOTE - STEAM TRAPS PRODUCTION

The thermodynamic type of steam trap is created for standard applications, designed for standards customer's requirements, it's obtained from a machined forged billet. Steam traps suitable for high pressures and capacities, usable for all applications.

#### how it works:

- 1- The disc is free and rests on the housing; in the steam trap there is no fluid of any kind.
- **2-** Start-up: when the condensate begins to circulate, the disc is prevented from adhering to the housing, making the steam trap discharge the excess condensate.

3- As the system heats up, steam begins to arrive, traveling faster than the condensate due to the effect of Bernoulli's principle; a reduction in pressure is generated inside the housing, forcing the disc to adhering to it and trapping the steam inside.

**4-** When the condensate arrives, the speed of flow will reduce, releasing the disc from the housing and allowing the steam trap to discharge the excess condensate.

All of Blu Zac products have been designed to satisfy the requests and specific requirements of the customer, including high pressure applications.

#### MAIN FEATURES

Reduced dimension and weight simple and reliable. It discharges air. It withstands water hammer. Condensate discharge is intermittent. Some loss of live steam.

#### APPLICATION

- □ Steam mains
- Tracing lines
- Turbines
- Marine applications
- Presses

### DISCARGE CAPACITY



CONNECTIONS								
Buttweld	BW	ANSI B16.25						
Flanged	FLG	ANSI B16.5						
Socket Welding	SW	ANSI B16.11						
Screwed	NPT	ANSI B1.20.1						
	BSP	ANSI BS21						

SIZES

from ¼" to 3"

LIMITING CONDITIONS ( according to ISO 6552 )								
Steam Trap rating			90	00				
Max Working Differential Pressure			85	bar				
Min Working Differential Pressure		0,5 bar						
PMOB: max working back pressure	80%							
Body and Cover Material	A105 A350 LF2	A182 F304 A182 F316	A182 F304L A182 F316L	A182 F11 Cl.2 A182 F22 Cl.3 A182 F91	A182 F321 A182 F347	A182 F44 A182 F51 A182 F53		
PMA: Max allowable pressure	153bar at 385°C	149bar at 500°C	124bar at 425°C	153bar at 450°C	149bar at 500°C	149bar at 500°C		
TMA: max allowable temperature	425°C at 110bar	530°C at 95bar	425°C at 124bar	530°C at 95bar	530°C at 95bar	530°C at 95bar		
PMO: max working pressure	153bar at 385°C	149bar at 500°C	124bar at 425°C	153bar at 450°C	149bar at 500°C	149bar at 500°C		
TMO: max working temperature	425°C at 110bar	530°C at 95bar	425°C at 124bar	530°C at 95bar	530°C at 95bar	530°C at 95bar		

#### GENERAL NOTE – STEAM TRAPS STANDARD PRODUCTION



BLL

Italian Filtration Solutions **Doc. n°:** 11D110840 Rev.00

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	Size	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	
Α	(mm)	165	165	165	170	170	170	
В	(mm)	89	89	89	99	99	109	
5	(mm)	80	80	80	80	80	80	
	150RF	160	165	170	175	185	180	
SF	300RF	170	175	185	190	195	195	
(mm)	600RF	180	185	195	205	210	215	
	900RF	195	210	220	220	235	270	
	150RF	89	99	108	117	127	152	
0	300RF	95	117	124	133	156	165	
(mm)	600RF	95	117	124	133	156	165	
	900RF	121	130	149	159	178	216	
	150RF	160	165	170	175	180	195	
С	300RF	165	175	180	185	195	200	
(mm)	600RF	165	175	180	185	195	200	
	900RF	175	180	190	195	205	225	
	150RF	180	185	195	200	210	210	
SFW	300RF	185	200	205	215	220	225	
(mm)	600RF	200	210	220	230	235	245	
	900RF	215	235	240	245	260	300	
	150RF	6,6	7	7,8	9	9,6	12,1	
Wt	300RF	7,4	8,6	9,4	11,2	12,6	13,9	
(kg)	600RF	7,4	8,6	9,4	11,2	12,6	16,1	
	900RF	9,4	10,8	13,2	14,8	18,4	29,7	





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POS	DESCRIPTION	MATERIALS	MATERIALS	MATERIALS	MATERIALS	MATERIALS	SPARES
1	Body	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	ASTM A182 F22 Cl.3	
2	Cover	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	ASTM A182 F22 Cl.3	
3	Cover Gasket	SPW: F-Graphite W-316	x				
4	Nuts	ASTM A194 Gr.2H	ASTM A194 Gr.4	ASTM A194 Gr.8	ASTM A194 Gr.8	ASTM A194 Gr.7	
5	Studs	ASTM A193 B7	ASTM A320 L7	ASTM A193 B8	ASTM A193 B8	ASTM A193 B16	
6	Seat	AISI-420	AISI-420	AISI-420	AISI-420	AISI-420	x
7	Seat Gasket	SPW: F-Graphite W-316	x				
8	Plug	ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F22 Cl.3	
9	Plug Gasket	SPW: F-Graphite W-316	x				
10	Screen	AISI-316	AISI-316	AISI-316	AISI-316	AISI-316	X

Note 1: Other Materials and Dimensions on Request

Note 2: Material A182 F316 is dual grade A182 F316/316L



#### HOW TO INSTALL:

This steam trap can work in any position, however it should be preferably installed in horizontal line.

#### HOW TO MAINTENANCE:

1. Before starting, wear the required safety equipment and follow all plant safety procedures.

- 2. Stop the main line to make sure that no residues
- of dangerous waste fluid could be emitted.

3. Unscrew cover studs(5) and nuts(4), then remove the cover(2) and gasket(3).

- 5. Remove the seat assembly(6).
- 6. Clean inside the body.
- 7. Replace cover gasket(3)
- 8. Reposition the cover(2), then screw the studs(5) and nuts(4).
- 9. Slowly start the plant and check if there are any line losses.
- 10. Apply a label to the trap with the maintenance date.

#### HOW TO SERVICE THE STRAINER:

- 1. Remove the plug(8)
- 2. Clean or change the screen(10).
- 3. Change the gasket(9) and rescrew the plug(8).

#### ORDER CODE

- **i.e.** TTD85 2" 150RF A105
  - TTD85 1" BW-XS A350 LF2



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#### GENERAL NOTE - STEAM TRAPS PRODUCTION

The thermodynamic type of steam trap is created for standard applications, designed for standards customer's requirements, it's obtained from a machined forged billet. Steam traps suitable for high pressures and capacities, usable for all applications.

#### how it works:

1- The disc is free and rests on the housing; in the steam trap there is no fluid of any kind.

2- Start-up: when the condensate begins to circulate, the disc is prevented from adhering to the housing, making the steam trap discharge the excess condensate.

3- As the system heats up, steam begins to arrive, traveling faster than the condensate due to the effect of Bernoulli's principle; a reduction in pressure is generated inside the housing, forcing the disc to adhering to it and trapping the steam inside.

4- When the condensate arrives, the speed of flow will reduce, releasing the disc from the housing and allowing the steam trap to discharge the excess condensate.

All of Blu Zac products have been designed to satisfy the requests and specific requirements of the customer, including high pressure applications.

3000

#### MAIN FEATURES

Reduced dimension and weight simple and reliable. It discharges air. It withstands water hammer. Condensate discharge is intermittent. Some loss of live steam.

#### APPLICATION

- Steam mains
- Tracing lines
- Turbines
- Marine applications

## DISCARGE CAPACITY



CONNECTIONS								
Buttweld	BW	ANSI B16.25						
Flanged	FLG	ANSI B16.5						
Socket Welding	SW	ANSI B16.11						
Screwed	NPT BSP	ANSI B1.20.1 ANSI BS21						

SIZES

from ¼" to 3"

BLUZAC

- Presses

## LIMITING CONDITIONS

Steam Trap rating			15	00		
Max Working Differential Pressure			100	bar		
Min Working Differential Pressure			1 k	par		
PMOB: max working back pressure	80%					
Body and Cover Material	A105 A182 F304 A A350 LF2 A182 F316 A		A182 F304L A182 F316L	A182 F11 Cl.2 A182 F22 Cl.3 A182 F91	A182 F321 A182 F347	A182 F44 A182 F51 A182 F53
PMA: Max allowable pressure	255bar at 385℃	248bar at 500°C	206bar at 425°C	259bar at 450°C	248bar at 500°C	248bar at 500°C
TMA: max allowable temperature	425°C at 142bar	530°C at 127bar	425°C at 113bar	530°C at 100bar	530°C at 127bar	530°C at 127bar
PMO: max working pressure	255bar at 385°C	255bar at 385°C 248bar at 500°C 206bar at 425°C 259bar at 450°C 248bar at 500°C 248bar at				
TMO: max working temperature	425°C at 142bar	530°C at 127bar	425°C at 113bar	530°C at 100bar	530°C at 127bar	530°C at 127bar

#### GENERAL NOTE - STEAM TRAPS STANDARD PRODUCTION



**Doc. n°:** 11A011045 *Rev.00* 

## BLU Italian Filtration Solutions

## TERMODYNAMIC – STEAM TRAPS TTD100

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	Size	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	
Α	(mm)	165	165	165	170	170	170	
В	(mm)	109	109	109	119	119	129	
S	(mm)	100	100	100	100	100	100	
SИ	/ (mm)	105	105	105	105	105	105	
SF (mm)	1500RF	215	230	240	240	255	290	
0 (mm)	1500RF	121	130	149	159	178	216	
C (mm)	1500RF	165	170	180	185	195	220	
SFW (mm)	1500RF	240	260	265	265	285	325	
Wt (kg)	1500RF	15,3	16,7	19,1	20,3	23,9	34,5	

DI TO	DIMENSION TOLLERANCE						
	DIM	ENSION					
SIZE	S S S S S S S F W S F W S F W S F W S F S F						
1/2" to 1"	± 1	± 1,5					
1" to 3"	± 1	± 2					





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POS	DESCRIPTION	MATERIALS	MATERIALS	MATERIALS	MATERIALS	MATERIALS	SPARES
1	Body	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316L	ASTM A182 F22 Cl.3	
2	Cover	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316L	ASTM A182 F22 Cl.3	
3	Cover Gasket	SPW: F-Graphite W-316	x				
4	Nuts	ASTM A194 Gr.2H	ASTM A194 Gr.4	ASTM A194 Gr.8	ASTM A194 Gr.8	ASTM A194 Gr.7	
5	Studs	ASTM A193 B7	ASTM A320 L7	ASTM A193 B8	ASTM A193 B8	ASTM A193 B16	
6	Seat	AISI-420	AISI-420	AISI-420	AISI-420	AISI-420	x
7	Seat Gasket	SPW: F-Graphite W-316	x				
8	Plug	ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F22 Cl.3	
9	Plug Gasket	SPW: F-Graphite W-316	X				
10	Screen	AISI-316	AISI-316	AISI-316	AISI-316	AISI-316	X

Note 1: Other Materials and Dimensions on Request

Note 2: Material A182 F316 is dual grade A182 F316/316L



#### HOW TO INSTALL:

This steam trap can work in any position, however it should be preferably installed in horizontal line.

#### HOW TO MAINTENANCE:

1. Before starting, wear the required safety equipment and follow all plant safety procedures.

- 2. Stop the main line to make sure that no residues
- of dangerous waste fluid could be emitted.

3. Unscrew cover studs(5) and nuts(4), then remove the cover(2) and gasket(3).

- 5. Remove the seat assembly(6).
- 6. Clean inside the body.
- 7. Replace cover gasket(3)
- 8. Reposition the cover(2), then screw the studs(5) and nuts(4).
- 9. Slowly start the plant and check if there are any line losses.
- 10. Apply a label to the trap with the maintenance date.

#### HOW TO SERVICE THE STRAINER:

- 1. Remove the plug(8)
- 2. Clean or change the screen(10).
- 3. Change the gasket(9) and rescrew the plug(8).

#### ORDER CODE

*i.e.* TTD100 2" 150RF A105 TTD10 1" BW-XS A350 LF2



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#### GENERAL NOTE - STEAM TRAPS PRODUCTION

The thermodynamic type of steam trap is created for standard applications, designed for standards customer's requirements, it's obtained from a machined forged billet. Steam traps suitable for high pressures and capacities, usable for all applications. **how it works**:

1- The disc is free and rests on the housing; in the steam trap there is no fluid of any kind.

**2-** Start-up: when the condensate begins to circulate, the disc is prevented from adhering to the housing, making the steam trap discharge the excess condensate.

**3-** As the system heats up, steam begins to arrive, traveling faster than the condensate due to the effect of Bernoulli's principle; a reduction in pressure is generated inside the housing, forcing the disc to adhering to it and trapping the steam inside.

**4-** When the condensate arrives, the speed of flow will reduce, releasing the disc from the housing and allowing the steam trap to discharge the excess condensate.

All of Blu Zac products have been designed to satisfy the requests and specific requirements of the customer, including high pressure applications.

#### MAIN FEATURES

Reduced dimension and weight simple and reliable. It discharges air. It withstands water hammer. Condensate discharge is intermittent. Some loss of live steam.

#### APPLICATION

□ Steam mains

Tracing lines

- Turbines
- Marine applications
- Presses

## DISCARGE CAPACITY



CONNECTIONS Buttweld BW ANSI B16.25 Flanged FLG ANSI B16.5 Socket SW ANSI B16.11 Welding NPT ANSI B1.20.1 Screwed RSP ANSI BS21

LUZAC

SIZES

from ¼" to 3"

( according to ISO 6552 )								
Steam Trap rating	2500							
Max Working Differential Pressure	150 bar							
Min Working Differential Pressure	1 bar							
PMOB: max working back pressure	80%							
Body and Cover Material	A105 A350 LF2	A182 F304 A182 F316	A182 F304L A182 F316L	A182 F11 Cl.2 A182 F22 Cl.3 A182 F91	A182 F321 A182 F347	A182 F44 A182 F51 A182 F53		
PMA: Max allowable pressure	425bar at 280°C	410bar at 530°C	345bar at 260°C	430bar at 450°C	410bar at 530°C	430bar at 450°C		
TMA: max allowable temperature	400°C at 360bar	530°C at 410bar	425°C at 180bar	530°C at 300bar	530°C at 410bar	530°C at 300bar		
PMO: max working pressure	425bar at 280°C	410bar at 530°C	345bar at 260°C	430bar at 450°C	410bar at 530°C	430bar at 450°C		
TMO: max working temperature	400°C at 360bar	530°C at 410bar	425°C at 180bar	530°C at 300bar	530°C at 410bar	530°C at 300bar		

#### GENERAL NOTE – STEAM TRAPS STANDARD PRODUCTION



**Doc. n°:** 10/031135 Rev.00

## BLU Italian Filtration Solutions

## TERMODYNAMIC – STEAM TRAPS

TTD150

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Size		1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	
A (mm)		190	190	190	190	190	190	
B (mm)		124	124	124	129	129	139	
S	(mm)	105	105	105	110	110	120	
SN	/ (mm)	120	120	120	120	120	120	
SF (mm)	2500RF	250	255	275	280	320	345	
0 (mm)	2500RF	133	140	159	184	203	235	
C (mm)	2500RF	200	204	213	225	230	235	
SFW (mm)	2500RF	280	295	315	315	360	380	
Wt (kg)	2500RF	19,2	21	24,1	28,3	36,3	48,3	

	DIMENSION TOLLERANCE				
		DIMENSION			
	SIZE	s	SF SFW A H & H1		
Ī	1/2" to 1"	±1	± 1,5		
	1" to 3"	± 1	± 2		





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POS	DESCRIPTION	MATERIALS	MATERIALS	MATERIALS	MATERIALS	MATERIALS	SPARES	
1	Body	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	ASTM A182 F22 Cl.3		
2	Cover	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	ASTM A182 F22 Cl.3		
3	Cover Gasket	SPW: F-Graphite W-316	x					
4	Nuts	ASTM A194 Gr.2H	ASTM A194 Gr.4	ASTM A194 Gr.8	ASTM A194 Gr.8	ASTM A194 Gr.7		
5	Studs	ASTM A193 B7	ASTM A320 L7	ASTM A193 B8	ASTM A193 B8	ASTM A193 B16		
6	Seat	AISI-420	AISI-420	AISI-420	AISI-420	AISI-420	x	
7	Seat Gasket	SPW:	SPW:	SPW:	SPW:	SPW:	v	
		F-Graphite W-316	^					
8	Plug	ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F316L	ASTM A182 F22 Cl.3		
0	Plug Gasket	SPW:	SPW:	SPW:	SPW:	SPW:	v	
9		F-Graphite W-316	Λ					
10	Screen	AISI-316	AISI-316	AISI-316	AISI-316	AISI-316	X	

Note 1: Other Materials and Dimensions on Request

Note 2: Material A182 F316 is dual grade A182 F316/316L



#### HOW TO INSTALL:

This steam trap can work in any position, however it should be preferably installed in horizontal line.

#### HOW TO MAINTENANCE:

1. Before starting, wear the required safety equipment and follow

- all plant safety procedures.
- 2. Stop the main line to make sure that no residues
- of dangerous waste fluid could be emitted.
- 3. Unscrew cover studs(5) and nuts(4), then remove the cover(2) and gasket(3).
- 5. Remove the seat assembly(6).
- 6. Clean inside the body.
- 7. Replace cover gasket(3)
- 8. Reposition the cover(2), then screw the studs(5) and nuts(4).
- 9. Slowly start the plant and check if there are any line losses.
- 10. Apply a label to the trap with the maintenance date.

#### HOW TO SERVICE THE STRAINER:

- 1. Remove the plug(8)
- 2. Clean or change the screen(10).
- 3. Change the gasket(9) and rescrew the plug(8).

#### ORDER CODE

*i.e.* TTD150 2" 150RF A105 TTD150 1" BW-XS A350 LF2