

DESCRIPTION:

Thermodynamic steam trap with inbuilt strainer in full stainless steel construction, best suited for header and main line drains and drip legs.

FEATURES:

Complete stainless steel construction ensures better mechanical and corrosion resistance properties.

The disc and seat are hardened by a special induction hardening process with seat harder than disc, to withstand continuous, prolonged operation.

Condensate entry below the disc, concentric to the disc / seat ensures a clean and parallel lift of the disc with reference to the seat, eliminating localized wear and tear.

The inbuilt strainer screen is of adequately large area.

Ideal for fluctuating loads and pressures.

Perfect shut-off, no steam loss.

SIZE : DN 15

CONNECTIONS : Screwed (NPT/BSPT/BSP)
Socket weld

Non IBR¹ / IBR approved

LIMITING CONDITIONS:

PMA: Max. allowable pressure	21 bar (g)
TMA: Max. allowable temp.	426 °C
Maximum operating back pressure at the outlet should not exceed 80% of the inlet pressure.	
Minimum differential pressure for satisfactory operation	0.25 bar (g)
Cold hydro test pressure	42 bar (g)

INSTALLATION:

The trap will operate in any position but the preferred installation is in the horizontal plane with the disc cap on the top. Full port isolating valves should be installed upstream and downstream of the trap.

Always open isolation valves slowly until normal operating conditions are achieved to avoid system shocks.


MAINTENANCE:

This trap can be maintained without disturbing the piping connections. Ensure that the trap is isolated - upstream and downstream - before attempting to dismantle it. **ALLOW THE TRAP TO COOL BEFORE DISMANTLING.**

For trouble-free performance, periodic cleaning of the disc, seat and strainer screen is recommended.

Do not use abrasive / corrosive media for cleaning.

Only the disc and seat are subject to wear.

A worn disc can be replaced. Slight seat wear can often be corrected by resurfacing on a lap plate.

IMPORTANT:

The trap should be installed as close as possible to the system drain point. For new installations, the system should be properly flushed prior to fitting the trap.

¹Indian Boiler Regulations

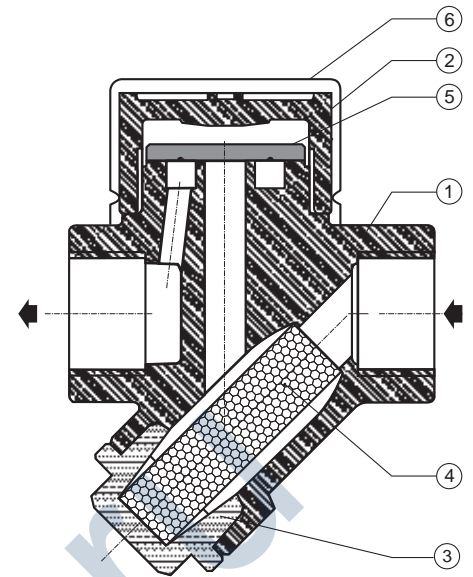
MATERIAL:

No.	PART	MATERIAL	QTY.(Nos.)
1	BODY (Seat Hardened)	ASTM A743 Gr CA 40 (Cast Equiv. AISI 420)	01
2	DISC CAP	ASTM A743 Gr CA 40 (Cast Equiv. AISI 420)	01
3	STRAINER CAP	ASTM A743 Gr CA 40 (Cast Equiv. AISI 420)	01
4	STRAINER SCREEN	AISI 304 (Perforated Sheet)	01
5	DISC (Hardened)	AISI 410	01
6*	ISOTUB	STAINLESS STEEL	01

***OPTIONAL FITTINGS**

ISOTUB: An insulating cover reduces the effect of excessive heat loss resulting from low ambient temperatures, wind, rain, etc.

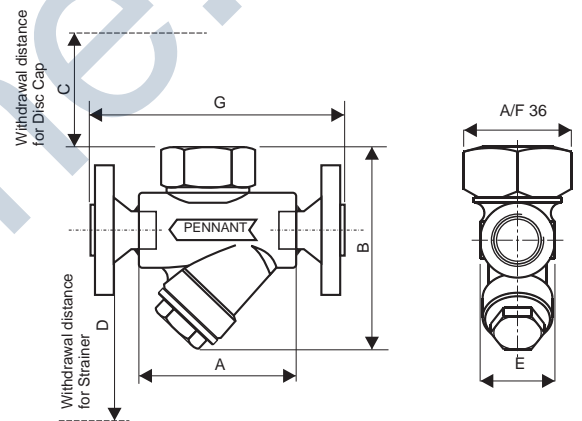
BLOW-DOWN VALVE: When the blow-down valve is opened, loose material collected in the strainer is purged.


DIMENSIONS - Nominal in mm

SIZE	A	B	C	D	E	F	Wt.
DN15	60	84	30	80	38	36	0.5 kg

Flanged Trap

Model	Size / Rating	G	Wt.
PT10	DN15 / #150	140	1.70 kg


AVAILABLE SPARES:

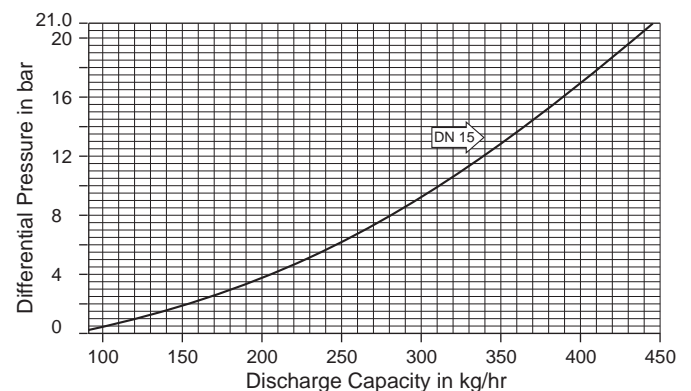
Disc, Strainer Screen (Packet of 5), Blow-down Valve, Isotub.

HOW TO ORDER:

PT10 DN15 BSP NIBR

ORDERING INFORMATION:

- 1) Inlet Pressure in bar (g)
- 2) Back Pressure in bar (g)
- 3) Operating Temperature in °C
- 4) Condensate Load in kg/hr
- 5) Size & Model
- 6) End Connections
- 7) IBR / Non-IBR



Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interest of development and improvement of the product, we reserve the right to change the specifications without prior notice.

DESCRIPTION:

Thermodynamic steam trap with inbuilt strainer, in full stainless steel construction, best suited for header and main line drains and drip legs.

FEATURES:

Complete stainless steel construction ensures better mechanical and corrosion resistance properties. The disc and seat are hardened by a special induction hardening process with seat harder than disc, to withstand continuous, prolonged operation.

Condensate entry below the disc, concentric to the disc/seat ensures a clean and parallel lift of the disc with reference to the seat, eliminating localized wear and tear.

The inbuilt strainer screen is of adequately large area.

Ideal for fluctuating loads and pressures.

Perfect shut-off, no steam loss.

SIZES: DN15, 20, 25

CONNECTIONS: Screwed (NPT/BSPT/BSP)
Flanged*, Socket weld

*End connection flanges of ASTM A105 forged carbon steel are welded on.

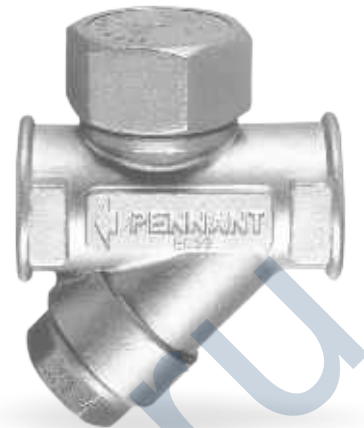
Non IBR¹ / IBR approved

LIMITING CONDITIONS:

PMA: Max. allowable pressure	42 bar (g)
TMA: Max. allowable temp.	426 °C
Maximum operating back pressure at the outlet should not exceed 80% of the inlet pressure.	
Minimum differential pressure for satisfactory operation	0.25 bar
Cold hydro test pressure	84 bar (g)

INSTALLATION:

The trap will operate in any position but the preferred installation is in a horizontal position with the disc cap on the top. Full port isolating valves should be installed upstream and downstream of the trap.


MAINTENANCE:

This trap can be maintained without disturbing the piping connections. Ensure that the trap is isolated - upstream and downstream - before attempting to dismantle it. **ALLOW THE TRAP TO COOL BEFORE DISMANTLING.**

For trouble-free performance, periodic cleaning of the disc, seat and strainer screen is recommended.

Do not use abrasive / corrosive media for cleaning.

Only the disc and seat are subject to wear.

A worn disc can be replaced. Slight seat wear can often be corrected by resurfacing on a lap plate.

IMPORTANT:

The trap should be installed as close as possible to the line to be drained.

For new pipelines, ensure that the lines are properly flushed, prior to fitting the traps, to avoid strainer choke-up.

¹Indian Boiler Regulations

MATERIAL:

No.	PART	MATERIAL	QTY.(Nos.)
1.	BODY (Seat Hardened)	ASTM A743 Gr CA 40 (Cast Equiv. AISI 420)	01
2.	DISC CAP	ASTM A743 Gr CA 40 (Cast Equiv. AISI 420)	01
3.	STRAINER CAP	ASTM A743 Gr CA 40 (Cast Equiv. AISI 420)	01
4.	STRAINER SCREEN	AISI 304 (Perforated Sheet)	01
5.	DISC (Hardened)	AISI 410	01
6.*	ISOTUB	STAINLESS STEEL	01

***OPTIONAL FITTINGS**

ISOTUB: An insulating cover reduces the effect of excessive heat loss resulting from low ambient temperatures, wind, rain, etc.

BLOW-DOWN VALVE: When the blow-down valve is opened, loose material collected in the strainer is purged.

DIMENSIONS - Nominal in mm

Screwed / Socket Weld traps

PT11	A	B	C	D	E	F	Wt.
DN15,20	80	102	81	90	41	42	1.0 kg
DN25	96	121	91	108	52	50	2.2 kg

Flanged traps

Model	Size / Rating	G	Wt. (approx.)
PT 11	DN15 / # 150	157	2.20 kg
	DN15 / # 300	165	2.80 kg
	DN15 / # 600	178	3.00 kg
	DN20 / # 150	160	2.65 kg
	DN20 / # 300	170	3.50 kg
	DN20 / # 600	182	3.75 kg
	DN25 / # 150	182	4.35 kg
	DN25 / # 300	195	5.55 kg
	DN25 / # 600	208	5.85 kg

AVAILABLE SPARES:

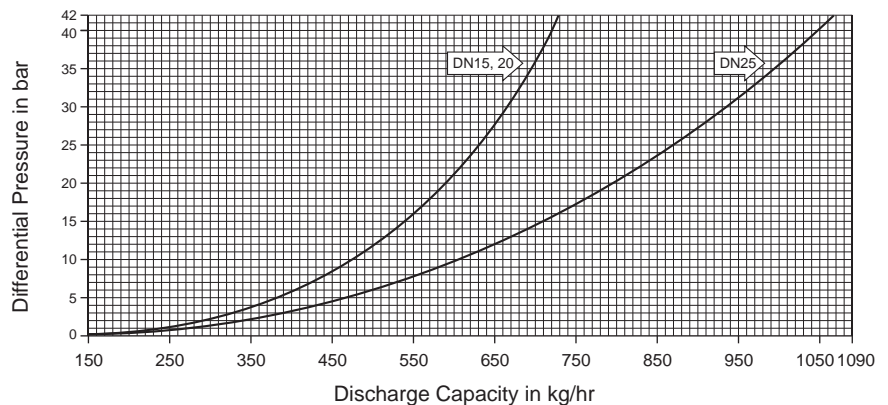
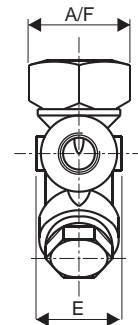
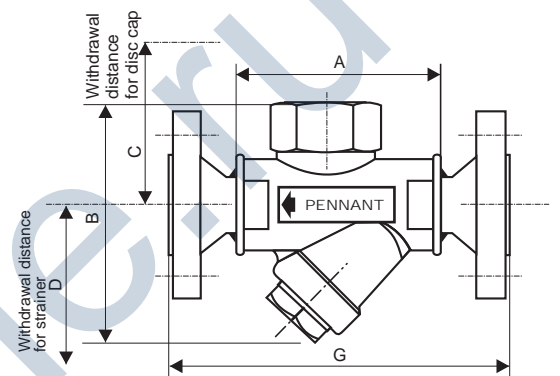
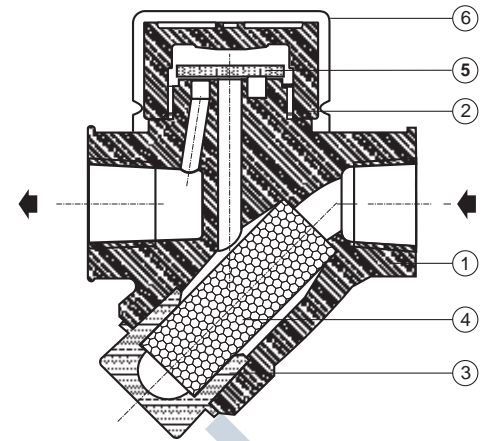
 Disc, Strainer Screen (Packet of 5),
 Blow-down Valve, Isotub

HOW TO ORDER:

PT11 DN15 BSP NIBR

ORDERING INFORMATION:

- 1) Inlet Pressure in bar (g)
- 2) Back Pressure in bar (g)
- 3) Operating Temperature in °C
- 4) Condensate Load in kg/hr
- 5) Size & Model
- 6) End Connections
- 7) IBR / Non-IBR



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DESCRIPTION:

Thermodynamic steam trap without integral strainer. Compact, light weight design, in full stainless steel construction.

FEATURES:

Better corrosion and wear resistance ensured by the total stainless steel construction.

It meets the requirements of quick response applications in the steam system.

The disc and seat are hardened to withstand continuous and prolonged operation. Condensate entry below the disc, concentric to the disc / seat ensures a clean and parallel lift of the disc with reference to the seat, eliminating localized wear and tear.

Ideal for fluctuating loads and pressures.

Perfect shut-off, no steam loss.

SIZES : DN 8, 10, 15, 20, 25

CONNECTIONS: Screwed (NPT/BSPT/BSP)
Socket weld

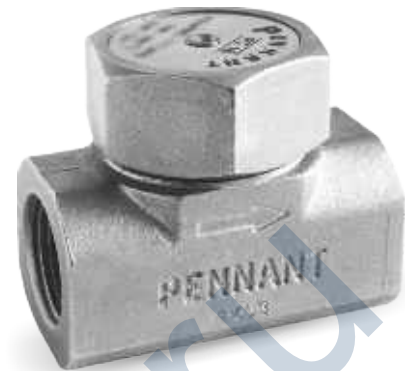
Non IBR¹ / IBR approved

LIMITING CONDITIONS:

PMA: Max. allowable pressure	42 bar (g)
TMA: Max. allowable temp.	426 °C
Maximum operating back pressure at the outlet should not exceed 80% of the inlet pressure.	
Minimum differential pressure for satisfactory operation	0.25 bar
Cold hydro test pressure	84 bar (g)

INSTALLATION:

The trap will operate in any position, but the preferred installation is in the horizontal plane with the cap on the top. Full port isolating valves should be installed upstream and downstream of the trap for safe maintenance. Always open isolation valves slowly until normal operating conditions are achieved to avoid system shocks.


MAINTENANCE:

The trap can be maintained without disturbing the piping connections. Ensure that the trap is isolated - upstream and downstream - before attempting to dismantle it. **ALLOW THE TRAP TO COOL BEFORE DISMANTLING.**

Periodic cleaning of the disc and seat will facilitate trouble-free performance. Do not use abrasive / corrosive media for cleaning.

Only the disc and seat are subject to wear. A worn disc can be replaced and slight seat wear can be corrected by resurfacing on a lap plate.

IMPORTANT:

For new installations, the system should be properly flushed prior to fitting the trap.

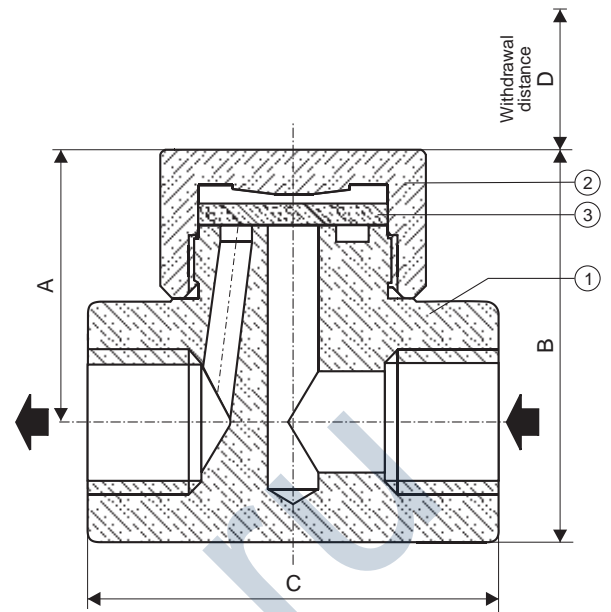
¹Indian Boiler Regulations

MATERIAL :

No.	PART	MATERIAL	QTY. (Nos.)
1.	BODY (Seat Hardened)	ASTM A743 Gr. CA 40 (Cast Equiv. AISI 420)	01
2.	DISC CAP	ASTM A743 Gr. CA 40 (Cast Equiv. AISI 420)	01
3.	DISC (Hardened)	AISI 410	01

DIMENSIONS - Nominal in mm

SIZE	A	B	C	D	E	F	Weight
DN8	43	62	60	40	38	42	0.65 kg
DN10	43	62	60	40	38	42	0.65 kg
DN15	43	62	65	40	38	42	0.75 kg
DN20	43	62	65	40	38	42	0.75 kg
DN25	50	73	85	45	46	50	1.60 kg


AVAILABLE SPARES:

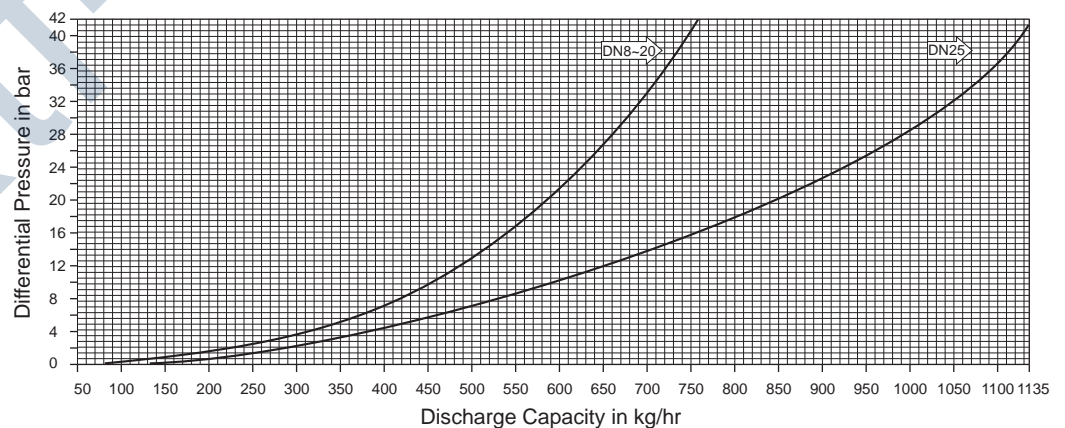
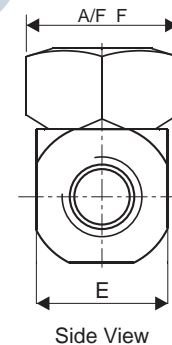
Disc (Packet of 5)

HOW TO ORDER:

PT16 DN25 BSP NIBR

ORDERING INFORMATION:

- 1) Inlet Pressure in bar (g)
- 2) Back Pressure in bar (g)
- 3) Operating Temperature in °C
- 4) Condensate Load in kg/hr
- 5) Size & Model
- 6) End Connections
- 7) IBR / Non-IBR



Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interest of development and improvement of the product, we reserve the right to change the specifications without prior notice.

DESCRIPTION:

Inverted bucket steam trap with integral strainer and all stainless steel internals. Best suited for equipment drains with medium to heavy condensate loads. Intermittent operation.

FEATURES:

The inverted bucket arrangement operates on the density difference between steam and water, giving a cyclic operation for discharge of the accumulated condensate.

High condensate handling capacities even at low pressure, permit the use of small trap sizes to suit many applications.

The valve and valve seat are hardened by a special induction hardening process to withstand continuous prolonged operation.

Perfect shut-off, no steam loss.

SIZES : DN15, 20, 25

CONNECTIONS: Screwed (NPT/BSPT/BSP)

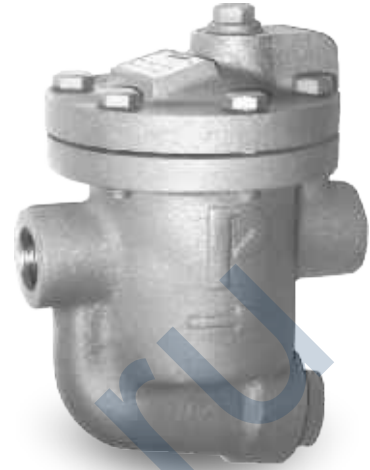
LIMITING CONDITIONS:

PMA: Max. allowable pressure	16 bar (g)
TMA: Max. allowable temp.	220 °C
Maximum operating back pressure at the outlet should not exceed 90% of the inlet pressure.	
Minimum diff. pressure for satisfactory operation	0.1 bar
Cold hydro test pressure	32 bar (g)

INSTALLATION:

The trap should be fitted with the inlet and outlet connections horizontally in-line. Correct fitment with body vertical is essential for easy movement of the bucket. The bypass arrangement should be above the level of the trap.

Full port isolation valves should be fitted before and after the trap, to be used when the trap has to be opened for maintenance.



MAINTENANCE:

This product can be maintained inline without disturbing the piping connections. Ensure that the trap is isolated - upstream & downstream - before attempting to dismantle it. It is recommended that the trap be opened periodically and the internals inspected for wear, damage, and dirt. All worn or damaged parts should be replaced with new spares. A full new internal kit comprising of the valve pin, valve seat, bracket and lever, should be replaced as a set. The bucket vent hole should be cleaned. The strainer screen should be removed and cleaned regularly.

IMPORTANT:

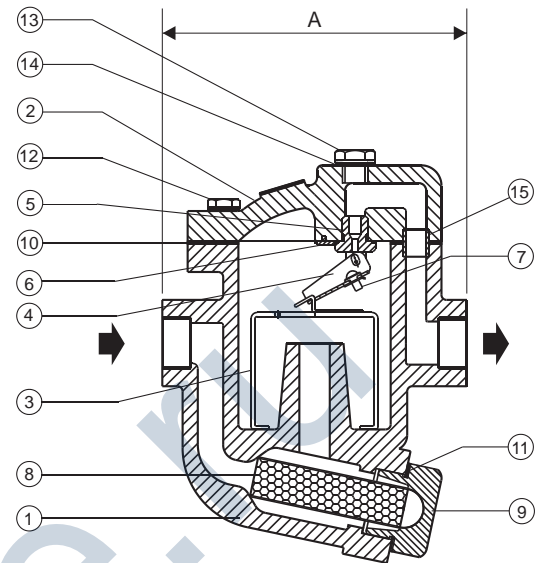
Ensure that the trap is primed by opening the inlet valve only a crack at start-up, allowing water to fill the trap before the steam enters. The inlet valve should be opened fully only after the trap is filled with water.

The trap should be installed as close as possible to the equipment to be drained.

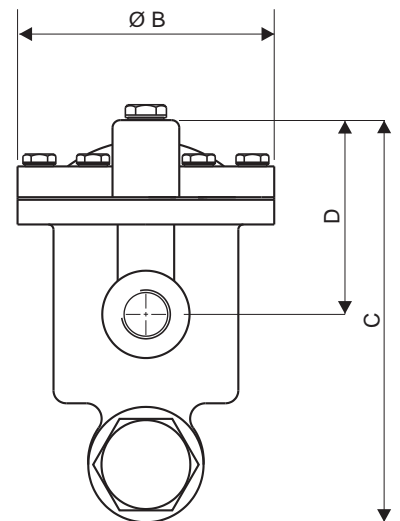
For new pipelines, ensure that the lines are properly flushed, prior to fitting the trap.

MATERIAL:

No.	PART	MATERIAL	QTY. (Nos.)
1.	BODY	CAST IRON	01
2.	COVER	CAST IRON	01
3.	BUCKET ASSLY.	AISI 304 with CS reinforcing ring where applicable	01
4.	LEVER ASSLY.	AISI 304	01
5.	VALVE SEAT (HARDENED)	13% CR STEEL / AISI 410/420	01
6.	BRACKET	AISI 304	01
7.	VALVE PIN (HARDENED)	13% CR STEEL / AISI 410/420	01
8.	STRAINER SCREEN	AISI304 (Perforated Sheet)	01
9.	STRAINER CAP	ASTM A743 Gr CA40	01
10.	GASKET (COVER)	CAF / Non CAF	01
11.	GASKET (STRAINER)	CAF / Non CAF	01
12.	BOLT	ASTM A193 Gr. B7	06
13.	PLUG	CARBON STEEL	01
14.	GASKET (PLUG)	CAF / Non CAF	01
15.	LOCATING TUBE	STAINLESS STEEL	01


DIMENSIONS - Nominal in mm

MODEL	SIZE	A	B	C	D	Wt.
PT23-15	DN15	120	100	156	71	3.20 kg
PT23-20	DN20	120	100	201	93	3.8 kg
PT23-25	DN25	180	160	255	137	9.2 kg


AVAILABLE SPARES:

SPARE KIT: Valve Pin, Valve Seat, Bracket & Lever Assly.
 (Op. diff. press. should be specified)

Bucket Assly, Set of Gaskets, Strainer Screen.

HOW TO ORDER:

PT23-25 DN20 BSP P

ORDERING INFORMATION:

- 1) Inlet Pressure in bar (g)
- 2) Back Pressure in bar (g)
- 3) Operating Temperature in °C
- 4) Condensate Load in kg/hr
- 5) Size & Model
- 6) End Connections

Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interest of development and improvement of the product, we reserve the right to change the specifications without prior notice.



PENNANT

PT-23
Discharge Capacity Chart for Inverted Bucket Traps

ACTUAL CONTINUOUS DISCHARGE CAPACITY OF TRAPS IN KILOGRAMS OF HOT CONDENSATE PER HOUR

Model	Valve Size (mm)	DIFFERENTIAL PRESSURE (bar)													
		DISCHARGE CAPACITY													
		0.5	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.5	10.0	11.0	12.5	14.0	
PT23-15	2.5	40	80	125	140	180	190	210	225	245	260	280	-----	-----	
	2.8	65	115	180	215	250	265	280	290	300	-----	-----	-----	-----	
	3.2	110	160	210	250	280	-----	-----	-----	-----	-----	-----	-----	-----	
PT23-20	2.8	65	115	180	215	250	270	290	310	330	360	375	390	-----	
	3.2	120	180	250	290	330	360	380	400	430	-----	-----	-----	-----	
	4.0	160	225	310	350	410	-----	-----	-----	-----	-----	-----	-----	-----	
PT23-25	2.8	65	125	200	265	310	340	385	420	450	485	500	530	565	
	4.0	190	330	490	600	660	725	785	830	860	-----	-----	-----	-----	
	4.8	265	430	640	800	890	-----	-----	-----	-----	-----	-----	-----	-----	

Guidelines on use of Capacity Chart

- Go to the differential pressure column corresponding to or slightly higher than, but not less than the operating differential pressure at which the trap is to be used. Move vertically downwards and select a suitable model and valve size.
- The selected capacity should be equal to or higher than the condensate load after including a safety factor of 2 to 3. Oversizing is not recommended.
- Example - Operating conditions = I) Inlet press. 4 bar(g) II) Back press. 1 bar(g) III) Condensate load 200 kg/hr. IV) Safety factor 2.

Model Selected: PT23-25 • Valve Size : 4.0 mm • Capacity 600 kg/hr @ a diff. press. of 3 bar.

DESCRIPTION:

Inverted bucket steam trap with integral strainer and all stainless steel internals. Best suited for equipment drains with medium to heavy condensate loads. Intermittent operation.

FEATURES:

The inverted bucket arrangement operates on the density difference between steam and water, giving a cyclic operation for discharge of the accumulated condensate.

High condensate handling capacities even at low pressure, permit the use of small trap sizes to suit many applications.

The valve and valve seat are hardened by a special induction hardening process to withstand continuous prolonged operation.

Perfect shut-off, no steam loss.

SIZES : DN15, 20, 25

CONNECTIONS: Screwed (NPT/BSPT/BSP)
Socket weld / Flanged*

*End connection flanges of ASTM A105 forged carbon steel are welded on

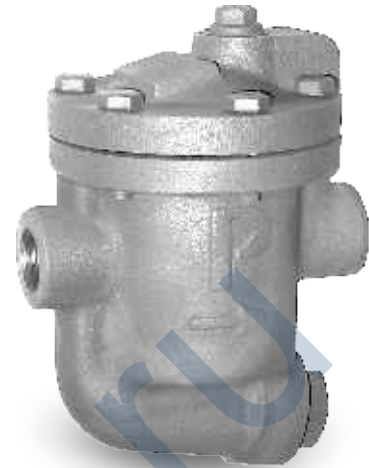
LIMITING CONDITIONS:

PMA: Max. allowable pressure	16 bar(g)
TMA: Max. allowable temp.	426 °C
Maximum operating back pressure at the outlet should not exceed 90% of the inlet pressure	
Minimum diff. pressure for satisfactory operation	0.1 bar
Cold hydro test pressure	32 bar(g)

INSTALLATION:

The trap should be fitted with the inlet and outlet connections horizontally in-line. Correct fitment with body vertical is essential for easy movement of the bucket. The bypass arrangement should be above the level of the trap.

Full port isolation valves should be fitted before and after the trap, to be used when the trap has to be opened for maintenance.



MAINTENANCE:

This product can be maintained inline without disturbing the piping connections. Ensure that the trap is isolated - upstream & downstream - before attempting to dismantle it. It is recommended that the trap be opened periodically and the internals inspected for wear, damage, and dirt. All worn or damaged parts should be replaced with new spares. A full new internal kit comprising of the valve pin, valve seat, bracket and lever, should be replaced as a set. The bucket vent hole should be cleaned. The strainer screen should be removed and cleaned regularly.

IMPORTANT:

Ensure that the trap is primed by opening the inlet valve only a crack at start-up, allowing water to fill the trap before the steam enters. The inlet valve should be opened fully only after the trap is filled with water.

The trap should be installed as close as possible to the equipment to be drained.

For new pipelines, ensure that the lines are properly flushed, prior to fitting the trap.

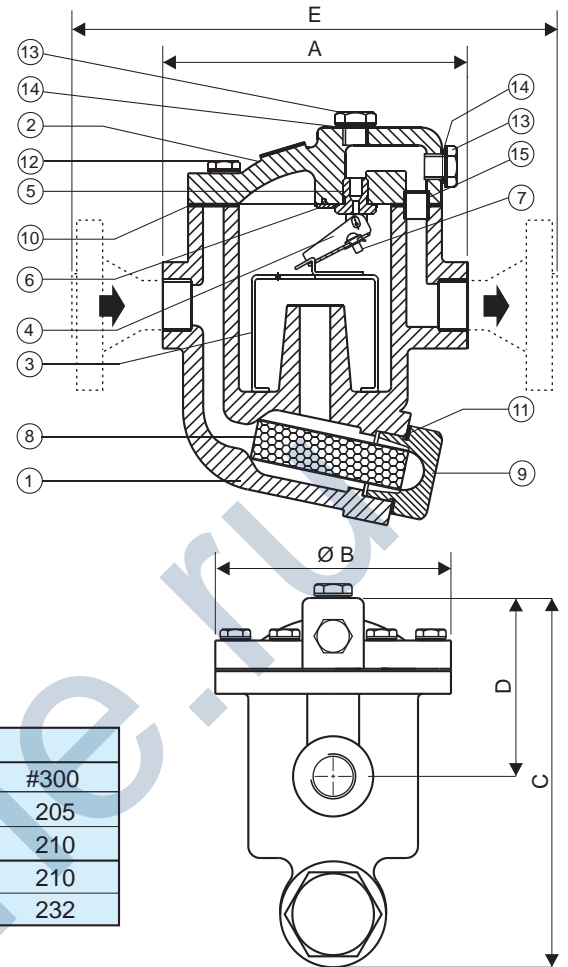
MATERIAL:

No.	PART	MATERIAL	QTY.(Nos.)
1.	BODY	ASTM A216 Gr. WCB**	01
2.	COVER	ASTM A216 Gr. WCB**	01
3.	BUCKET ASSLY.	AISI 304 with CS reinforcing ring where applicable	01
4.	LEVER ASSLY.	AISI 304	01
5.	VALVE SEAT (HARDENED)	13% CR STEEL / AISI 410/420	01
6.	BRACKET	AISI 304	01
7.	VALVE PIN (HARDENED)	13% CR STEEL / AISI 410/420	01
8.	STRAINER SCREEN	AISI304 (Perforated Sheet)	01
9.	STRAINER CAP	ASTM A743 Gr CA40	01
10.	GASKET (COVER)	CAF / Non CAF	01
11.	GASKET (STRAINER)	CAF / Non CAF	01
12.	BOLT	ASTM A193 Gr. B7	06
13.	PLUG	CARBON STEEL	02
14.	GASKET (PLUG)	CAF / Non CAF	02
15.	LOCATING TUBE	STAINLESS STEEL	01

**Can be supplied in ASTM A351 Gr. CF8 / CF8M on request

DIMENSIONS - Nominal in mm

MODEL	SIZE	A	B	C	D	Wt. SCR./SW	E	
							#150	#300
PT26-15	DN15	120	100	156	71	3.5 kg	197	205
PT26-20L	DN20						200	210
PT26-20	DN20	120	100	201	93	4.1 kg	200	210
PT26-25L	DN25						205	232


TRAP DISCHARGE CAPACITY IN kg/hr

Model	Orifice Size	DIFFERENTIAL PRESSURE (bar)											
		0.5	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.5	10.0	11.0	12.5
PT26-15 PT26-20L	2.5 mm	40	80	125	140	180	190	210	225	245	260	280	----
	2.8 mm	65	115	180	215	250	265	280	290	300	----	----	----
	3.2 mm	110	160	210	250	280	----	----	----	----	----	----	----
PT26-20 PT26-25L	2.8 mm	65	115	180	215	250	270	290	310	330	360	375	390
	3.2 mm	120	180	250	290	330	360	380	400	430	----	----	----
	4.0 mm	160	225	310	350	410	----	----	----	----	----	----	----

Guidelines on use of Capacity Chart

- Go to the differential pressure column corresponding to, or slightly higher than, but not less than the operating differential pressure at which the trap is to be used. Move vertically downwards and select a suitable model and orifice size.
- The selected capacity should be equal to or higher than the condensate load after including a safety factor of 2 to 3. Oversizing is not recommended.
- Example - Operating conditions = I) Inlet press. 4bar(g) II) Back press. 1 bar(g) III) Condensate load 100 kg/hr. IV) Safety factor 2.
Model Selected: PT26-20 • Orifice Size : 2.8 mm • Capacity : 215 kg/hr @ a diff. press. of 3 bar.

HOW TO ORDER:

PT26-20L DN20 BSP P

ORDERING INFORMATION:

- 1) Inlet Pressure in bar (g)
- 2) Back Pressure in bar (g)
- 3) Operating Temperature in °C
- 4) Condensate Load in kg/hr
- 5) Size & Model
- 6) End Connections.

AVAILABLE SPARES:

SPARE KIT: Valve Pin, Valve Seat, Bracket & Lever Assly. (Op. diff. press. should be specified) Bucket Assly, Set of Gaskets, Strainer Screen.

Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interest of development and improvement of the product, we reserve the right to change the specifications without prior notice.

DESCRIPTION:

The PT30 is a perfect NO-LOSS steam trap that offers condensate sub-cooling to maximise thermal efficiency.

Its special design facilitates fitment in any position.

The highly responsive, corrosion and water-hammer resistant controller gives excellent deaeration and drainage.

Maximum thermal efficiency is automatically maintained under varying conditions.

APPLICATIONS:

For drainage and deaeration of steam lines and all kinds of heat exchangers, (including those for superheated steam), auxiliary heating systems, sterilization systems, hot water heat exchangers, tracing and many other steam applications.

SUB COOLING : 12°C - Standard,
6°C & 24°C - Optional

SIZES : DN15, 20

CONNECTIONS : Screwed (NPT/BSPT/BSP)
Socket weld / Flanged.*

* End connection flanges of ASTM A105 forged carbon steel are welded on.

Non IBR¹ / IBR

LIMITING CONDITIONS:

PMA: Max. allowable pressure	22 bar(g)
TMA: Max. allowable temp.	300 °C
PMO: Max. operating pressure	22 bar(g)
TMO: Max. operating temp.	250 °C
Cold hydro test pressure	44 bar(g)

OPTIONAL:

Back-flow preventer stops reverse flow of the condensate when the plant is shut down.



INSTALLATION:

1. Prior to installation, clean the lines by blowing through at full steam pressure to remove dirt. This should be strictly followed when the lines are new.
2. For steam trapping applications the trap should be fitted below the equipment to be drained and as close to the drain point as possible, preferably in a horizontal position with the cover on top.
3. For air venting applications, the trap should be fitted at the highest point of the piping system or equipment where the air / incondensable gases collect.

MAINTENANCE:

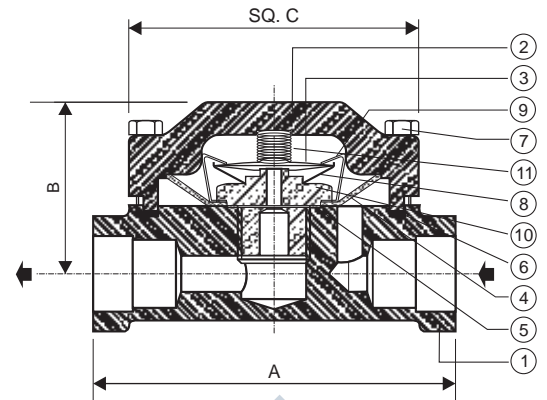
This product can be maintained inline without disturbing the piping connections, provided isolation valves are fitted before and after the trap. Ensure that the trap is isolated - upstream and downstream - before attempting to dismantle it.

IMPORTANT:

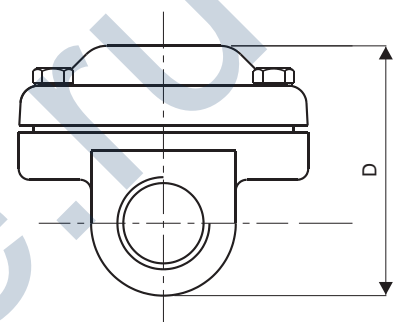
Do not de-pressurise the trap before it cools. Sudden loss of pressure in a trap which is hot causes permanent damage to the controller.

MATERIAL:

NO.	PART	MATERIAL	QTY.(Nos.)
1.	BODY	ASTM A105	01
2.	COVER	ASTM A105	01
3.	CONTROLLER ASSLY.	STAINLESS STEEL	01
4.	STRAINER SCREEN	AISI 304 (Perforated Sheet)	01
5.	SEAT GASKET	COPPER	01
6.	COVER GASKET	CAF / Non CAF	01
7.	BOLT	ASTM A193 Gr. B7	04
8.	BURBLE SHEET	AISI 304	01
9.	CLIP	AISI 304	01
10.	SEAT	AISI 304	01
11.	SPRING	STAINLESS STEEL	01


DIMENSIONS - Nominal in mm

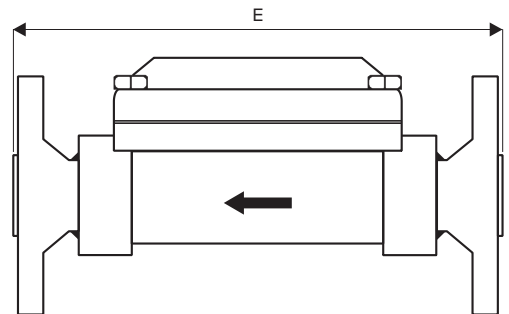
Size	A	B	C	D	E	
					#150	#300
DN15	100	50	80	70	177	185
DN20	100	50	80	70	180	190



Side View

WEIGHTS: (approx.)

Size	SCR / SW	FLANGED	
		#150	#300
DN15	1.9 kg	3.2 kg	3.5 kg
DN20	1.9 kg	3.6 kg	4.4 kg


AVAILABLE SPARES:

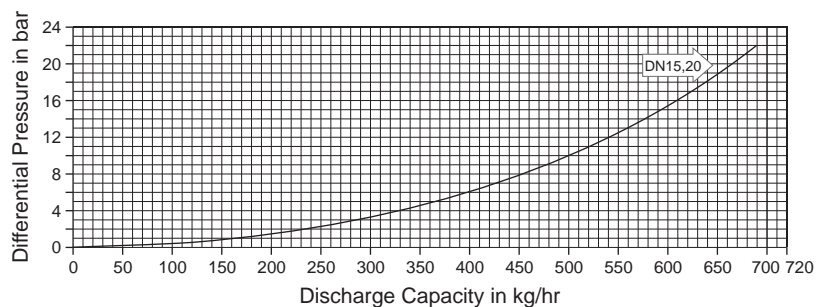
Controller & Valve Seat Assy., Gaskets, Strainer Screen.

HOW TO ORDER:

PT30 DN15 BSP

ORDERING INFORMATION:

- 1) Inlet Pressure in bar (g)
- 2) Back Pressure in bar (g)
- 3) Operating Temperature in °C
- 4) Condensate Load in kg/hr
- 5) Size & Model
- 6) End Connections.
- 7) Sub cooling (°C)



Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interest of development and improvement of the product, we reserve the right to change the specifications without prior notice.

DESCRIPTION :

Thermostatic steam trap best suited for use in Clean steam systems. All wetted parts of this trap are manufactured from FDA approved materials.

FEATURES :

- Full stainless steel 316L construction
- Condensate draining close to steam temperature ensuring min. condensate back up before discharge
- Highly polished for better cleanability and improved corrosion resistance. Surface finish Ra 0.4~0.8µm
- Compact and light weight
- Easy to install
- Ease in dismantling and cleaning.

APPLICATIONS :

- Sterilizers
- Autoclaves
- CIP/SIP systems
- Block and bleed systems
- Air venting of equipments
- Sterilization of equipments.

SIZES : DN15, 20

CONNECTIONS : Triclamp end

LIMITING CONDITIONS :

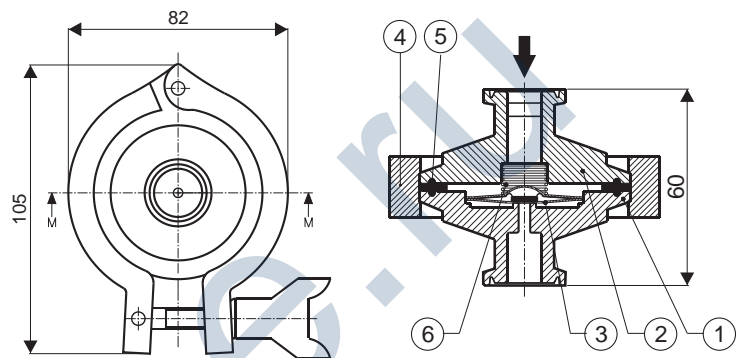
PMA: Max. allowable press.	10.5 bar(g)
TMA: Max. allowable temp.	177°C
PMO: Max. operating press.	7.0 bar(g)
TMO: Max. operating temp.	Saturation temperature

HOW TO ORDER:

PT32 DN15 BSP

ORDERING INFORMATION:

- 1) Inlet Pressure in bar (g)
- 2) Back Pressure in bar (g)
- 3) Operating Temperature in °C
- 4) Condensate Load in kg/hr
- 5) Size & Model
- 6) End Connections.
- 7) Sub cooling (°C)



MATERIAL:

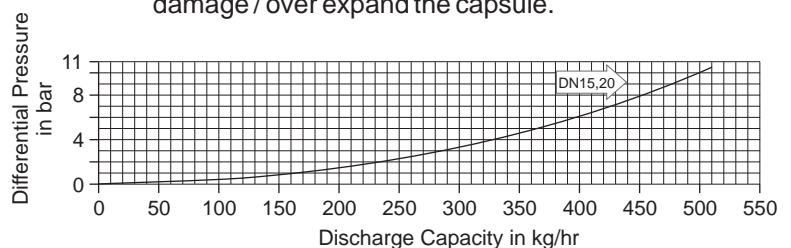
NO.	PART	MATERIAL	QTY. (Nos.)
1	BODY	AISI 316L	1
2	COVER	AISI 316L	1
3	CAPSULE	AISI 316L	1
4	CLAMP	AISI 304	1
5	GASKET	PTFE	1
6	SPRING	AISI 316L	1

INSTALLATION:

The trap is designed to fit in vertical direction with inlet from top and drain down, thus facilitating complete drain. Ensure that the installation is done as per flow direction marked on the body.

Do not expose the trap on superheated condition.

Do not depressurize the trap before it cools. This may damage / over expand the capsule.



Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interest of development and improvement of the product, we reserve the right to change the specifications without prior notice.

DESCRIPTION:

The PT33 is a balanced pressure thermostatic steam trap with "Y" type internal strainer. It is a perfect NO-LOSS steam trap that offers condensate sub-cooling to maximise thermal efficiency.

The highly responsive, corrosion and water-hammer resistant controller gives excellent deaeration and drainage.

Maximum thermal efficiency is automatically maintained under varying conditions.

APPLICATIONS:

For drainage and deaeration of steam lines and all kinds of heat exchangers, (including those for superheated steam), auxiliary heating systems, sterilization systems, hot water heat exchangers, tracing and many other steam applications.

SUB COOLING : 12° C - Standard,
6° C & 24° C - Optional

SIZES : DN15, 20

CONNECTIONS : Screwed (NPT/BSPT/BSP)
Socket weld / Flanged.*

* End connection flanges of ASTM A105 forged carbon steel are welded on.

Non IBR¹ / IBR

LIMITING CONDITIONS:

PMA: Max. allowable pressure	22 bar(g)
TMA: Max. allowable temp.	300 °C
PMO: Max. operating pressure	22 bar(g)
TMO: Max. operating temp.	250 °C
Cold hydro test pressure	44 bar(g)

OPTIONAL:

Back-flow preventer: Stops reverse flow of the condensate when the plant is shut down.



INSTALLATION:

1. Prior to installation, clean the lines by blowing through at full steam pressure to remove dirt. This should be strictly followed when the lines are new.
2. For steam trapping applications the trap should be fitted below the equipment to be drained and as close to the drain point as possible, preferably in a horizontal position with the cover on top.
3. For air venting applications, the trap should be fitted at the highest point of the piping system or equipment where the air / incondensable gases collect.

MAINTENANCE:

This product can be maintained inline without disturbing the piping connections, provided isolation valves are fitted before and after the trap. Ensure that the trap is isolated - upstream and downstream - before attempting to dismantle it.

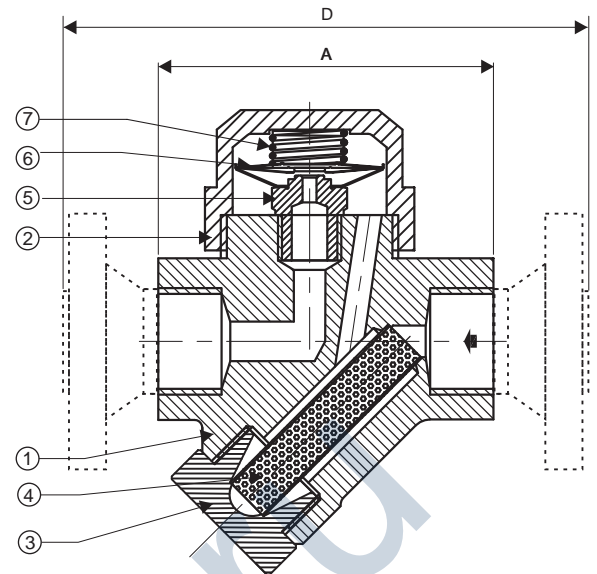
IMPORTANT:

Do not de-pressurise the trap before it cools. Sudden loss of pressure in a trap which is hot causes permanent damage to the controller.

¹Indian Boiler Regulations

MATERIAL:

NO.	PART	MATERIAL	QTY.(Nos.)
1.	BODY	ASTM A105	01
2.	COVER	ASTM A105	01
3.	STRAINER CAP	ASTM A743 Gr. CA40	01
4.	STRAINER SCREEN	AISI 304 (0.8 PERF.)	01
5.	VALVE SEAT	AISI 304	01
6.	THERMOSTATIC BELLOW	STAINLESS STEEL	01
7.	SPRING	AISI 304	01


DIMENSIONS - Nominal in mm

Size	A	B	C	D	
				#150	#300
DN15	85	125	53	162	170
DN20	85	125	53	165	175

WEIGHTS: (approx.)

Size	SCR / SW	FLANGED	
		#150	#300
DN15	1.7 kg	3.0 kg	3.3 kg
DN20	1.7 kg	3.4 kg	4.2 kg

AVAILABLE SPARES:

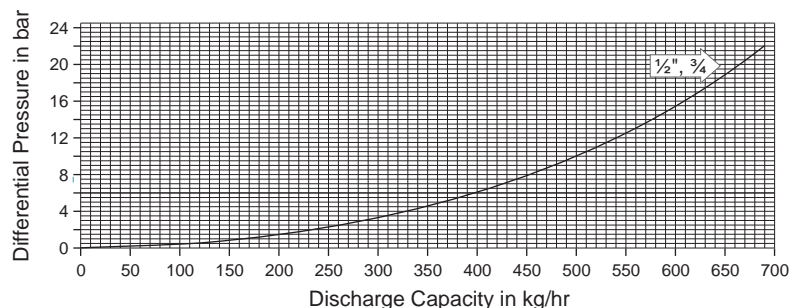
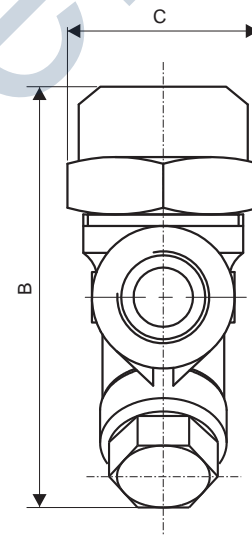
Controller & Valve Seat Assy., Gaskets, Strainer Screen.

HOW TO ORDER:

PT33 DN15 BSP NIBR

ORDERING INFORMATION:

- 1) Inlet pressure bar (g)
- 2) Back pressure bar (g)
- 3) Operating temperature °C
- 4) Condensate load kg/hr
- 5) Size & Model
- 6) End Connections
- 7) Sub cooling °C
- 8) IBR / NIBR



Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interest of development and improvement of the product, we reserve the right to change the specifications without prior notice.

DESCRIPTION :

High capacity thermostatic steam trap best suited for use in Clean Steam applications. All wetted parts of this trap are manufactured from FDA approved materials.

FEATURES :

- Full stainless steel 316L construction
- Condensate draining close to steam temperature ensuring min. condensate back up before discharge
- Highly polished for better cleanability and improved corrosion resistance. Surface finish Ra 0.4~0.8µm
- Compact and light weight
- Easy to install
- Ease in dismantling and cleaning.

APPLICATIONS :

- Sterilizers
- Autoclaves
- CIP/SIP systems
- Block and bleed systems
- Air venting of equipments
- Sterilization of equipments.

SIZES : DN15, 20

CONNECTIONS : Triclamp end

LIMITING CONDITIONS :

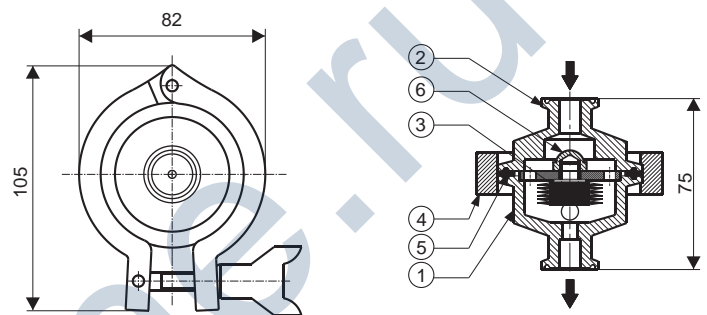
PMA: Max. allowable press.	10.5 bar(g)
TMA: Max. allowable temp.	177°C
PMO: Max. operating press.	7.0 bar(g)
TMA: Max. operating temp.	Saturation temperature

HOW TO ORDER:

PT34 DN15 BSP

ORDERING INFORMATION:

- 1) Inlet Pressure in bar (g)
- 2) Back Pressure in bar (g)
- 3) Operating Temperature in °C
- 4) Condensate Load in kg/hr
- 5) Size & Model
- 6) End Connections.
- 7) Sub cooling (°C)



MATERIAL:

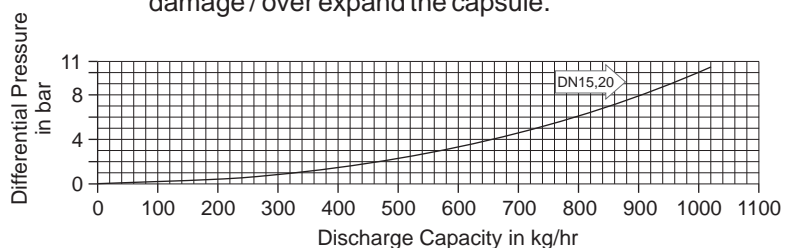
NO.	PART	MATERIAL	QTY. (Nos.)
1	BODY	AISI 316L	1
2	COVER	AISI 316L	1
3	CAPSULE	AISI 316L	1
4	CLAMP	AISI 304	1
5	GASKET	PTFE	1
6	SPRING	AISI 316L	1

INSTALLATION:

The trap is designed to fit in vertical direction with inlet from top and drain down, thus facilitating complete drain. Ensure that the installation is done as per flow direction marked on the body.

Do not expose the trap on superheated condition.

Do not depressurize the trap before it cools. This may damage / over expand the capsule.



Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interest of development and improvement of the product, we reserve the right to change the specifications without prior notice.

DESCRIPTION:

PT61 float and thermostatic (integral air vent) steam traps are designed for draining condensate from all types of low and medium pressure steam heating and process equipment.

Typical applications include unit heaters, heat exchangers, driers and jacketed vessels.

AVAILABLE TYPES:

PT61 - with Thermostatic Air Vent

PT61S - with Steam Lock Release (SLR)

FEATURES:

Modulating discharge.

Discharges condensate at steam temperature.

Excellent air venting (by thermostatic air vent).

USE: Saturated and superheated steam

SIZES: DN15, 20, 25

CONNECTIONS: Screwed (NPT/BSPT/BSP)

LIMITING CONDITIONS:

PMA: Max. allowable pressure	16 bar(g)
TMA: Max. allowable temperature	220 °C
PMO: Max. operating pressure	14 bar(g)
TMO: Max. operating temperature	220 °C
Cold hydro test pressure	32 bar(g)


INSTALLATION:

Standard horizontal installation with flow from right to left PT61.

UPON REQUEST:

- Horizontal installation with flow from left to right PT61 (L-R)
- Vertical installation with flow from top to bottom PT61(V).

Max. differential pressure range:

PT61-4.5 : 4.5 bar

PT61-10 : 10 bar

PT61-14 : 14 bar

The trap should be installed below the drain point of the equipment in a position so that the float arm is in a horizontal plane and the float rises and falls vertically, with the flow direction as indicated on the body.

The arrow on the nameplate should be pointing vertically upwards.

TRAP DISCHARGE CAPACITY IN kg/hr

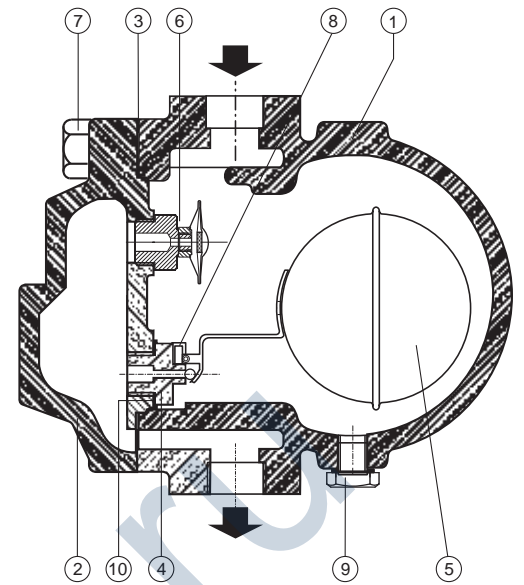
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)																
		0.5	1	1.5	2	3	4	4.5	5	6	7	8	9	10	11	12	13	14
PT61-4.5	DN15,20	200	280	320	350	400	454	495	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PT61-4.5	DN25	530	700	750	879	1019	1099	1229	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PT61-10	DN15,20	135	150	165	180	210	241	255	280	300	350	391	405	420	-----	-----	-----	---
PT61-10	DN25	230	320	370	420	510	570	600	640	680	710	760	800	820	-----	-----	-----	-----
PT61-14	DN15,20	125	140	150	165	190	221	230	246	271	296	325	350	375	404	430	454	482
PT61-14	DN25	130	160	180	220	260	300	320	330	360	380	400	430	450	460	475	490	510

Recommended safety factor: steady condns. 1.5 - 2; fluctuating condns. 2-3

MATERIAL:

No.	PART	MATERIAL	QTY.(Nos.)
1.	BODY	CAST IRON	01
2.	COVER	CAST IRON	01
3.	GASKET	CAF / Non CAF	01
4.	VALVE SEAT	13% CR STEEL / AISI 410/420	01
5.	BALL FLOAT & LEVER ASSY.	AISI 304	01
6.	AIR VENT ASSY.	STAINLESS STEEL	01
7.	BOLT	HIGH TENSILE	04
8.	BRACKET ASSY.	AISI 304	01
9.	DRAIN PLUG	CARBON STEEL	01
10.	GASKET	COPPER	01
11.	SLR UNIT	AISI 304	01
12.	SPRING	STAINLESS STEEL*	01

* Only for DN25 size (Not shown in view)


DIMENSIONS - Nominal in mm

SIZE	A	B	C	D	Wt.
DN15,20	130	146	62	110	3.3 kg
DN25	145	162	59	110	4.3 kg

AVAILABLE SPARES:

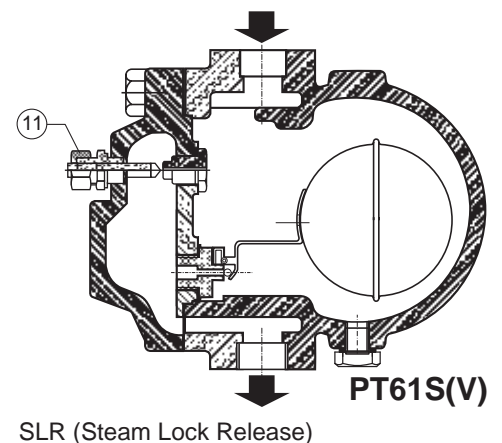
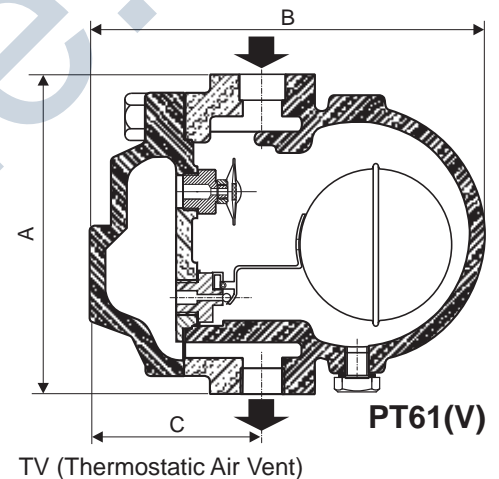
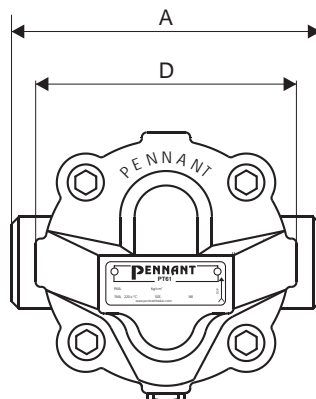
Valve Seat, Ball Float & Lever Assy., Air Vent, Gaskets.

HOW TO ORDER:

PT61-4.5 DN20 BSP

ORDERING INFORMATION:

- 1) Inlet Pressure in bar (g)
- 2) Back Pressure in bar (g)
- 3) Operating Temperature in °C
- 4) Condensate Load in kg/hr
- 5) Size & Model
- 6) Horizontal / Vertical
- 7) End Connections.



Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interest of development and improvement of the product, we reserve the right to change the specifications without prior notice.

DESCRIPTION:

All stainless steel ball float and thermostatic (integral air vent) steam traps are designed for draining condensate from all types of low and medium pressure steam heating and process equipment.

Typical applications include unit heaters, heat exchangers, driers and jacketed vessels.

AVAILABLE TYPES :

PT61SS - with Thermostatic Air Vent

SALIENT FEATURES:

Modulating discharge.

Discharges condensate at steam temperature.

Excellent air venting (by thermostatic air vent).

USE: Saturated and superheated steam.

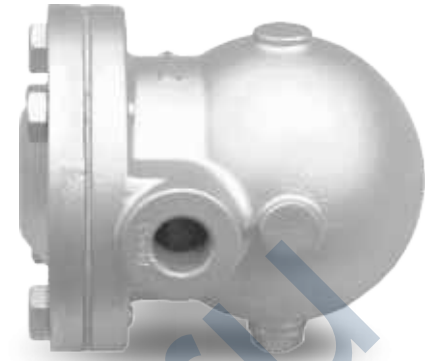
SIZES: DN15, 20

CONNECTIONS: Screwed (NPT / BSPT / BSP)
Socket weld / Flanged*

*End connection flanges of Stainless steel are welded on.

LIMITING CONDITIONS:

PMA: Max allowable pressure	16 bar (g)
TMA: Max. allowable temperature	220 °C
PMO: Max operating pressure	14 bar (g)
TMO: Max. operating temperature	220 °C
Body shell design rating	20 bar (g) 426 °C
Cold hydro test pressure	32 bar (g)



INSTALLATION:

Standard horizontal installation with flow from right to left PT61SS.

UPON REQUEST:

- Horizontal installation with flow from left to right PT61SS (L-R)
- Vertical installation with flow from top to bottom PT61SS (V).

Max. differential pressure range:

PT61SS-4.5 : 4.5 bar

PT61SS-10 : 10 bar

PT61SS-14 : 14 bar

The trap should be installed below the drain point of the equipment in a position so that the float arm is in a horizontal plane and the float rises and falls vertically, with the flow direction as indicated on the body.

The arrow on the nameplate should be pointing vertically upwards.

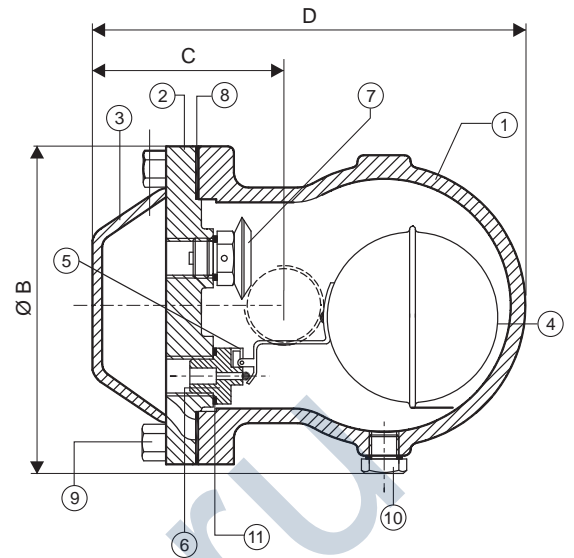
TRAP DISCHARGE CAPACITY IN kg/hr

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)																
		0.5	1	1.5	2	3	4	4.5	5	6	7	8	9	10	11	12	13	14
PT61SS-4.5	DN15,20	200	280	320	350	400	454	495	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PT61SS-10	DN15,20	135	150	165	180	210	241	255	280	300	350	391	405	420	-----	-----	-----	---
PT61SS-14	DN15,20	125	140	150	165	190	221	230	246	271	296	325	350	375	404	430	454	482

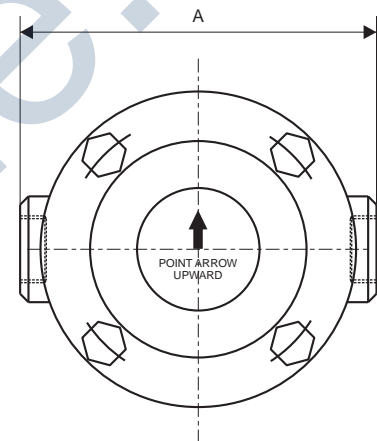
Recommended safety factor: steady condns. 1.5 - 2; fluctuating condns. 2-3

MATERIAL:

No.	PART	MATERIAL	QTY.(Nos.)
1.	BODY	ASTM A351 Gr. CF8	01
2.	COVER PLATE	ASTM A351 Gr. CF8	01
3.	TOP COVER	AISI 304	01
4.	BALL FLOAT & LEVER ASSY.	AISI 304	01
5.	BRACKET ASSY.	AISI 304	01
6.	VALVE SEAT	13% Cr. STEEL / AISI 410/420	01
7.	AIR VENT ASSY.	STAINLESS STEEL	01
8.	COVER GASKET	CAF / Non CAF	01
9.	BOLT	STAINLESS STEEL	04
10.	DRAIN PLUG	STAINLESS STEEL	01
11.	GASKET	COPPER	01
12.	FLANGE	ASTM A182 Gr. F304	02


DIMENSIONS - Nominal in mm

Size	A	B	C	D	E	
					#150	#300
DN15,20	127	120	60	145	200	210


WEIGHTS: (approx.)

Size	SCR / SW	FLANGED	
		#150	#300
DN15	3.3 kg	4.6 kg	4.9 kg
DN20	3.3 kg	5.0 kg	5.8 kg

AVAILABLE SPARES:

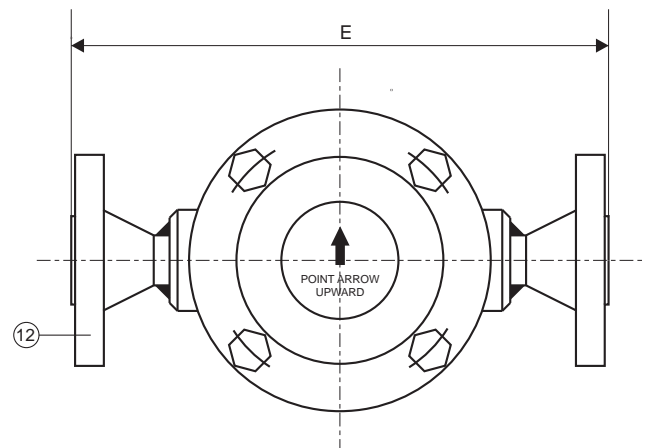
Valve seat, Ball float & lever assy., Air vent, Gaskets.

HOW TO ORDER:

PT61SS-4.5 DN20 BSP

ORDERING INFORMATION:

- 1) Inlet Pressure in bar (g)
- 2) Back Pressure in bar (g)
- 3) Operating Temperature in °C
- 4) Condensate Load in kg/hr
- 5) Size & Model
- 6) Horizontal / Vertical
- 7) End Connections..



Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interest of development and improvement of the product, we reserve the right to change the specifications without prior notice.

DESCRIPTION:

PT62 float and thermostatic (internal air vent) steam traps are designed for draining condensate from all types of low and medium pressure steam heating and process equipment.

Typical applications include unit heaters, heat exchangers, driers and jacketed vessels.

Horizontal installation.

AVAILABLE TYPES:

PT 62 - with thermostatic air vent

PT 62S- SLR (with steam lock release)

PT 62C - with thermostatic air vent and SLR.

FEATURES:

Modulating discharge.

Discharges condensate at steam temperature.

Excellent air venting (by thermostatic air vent).

USE: Saturated and superheated steam.

SIZES: DN15, 20, 25

CONNECTIONS: Screwed (NPT, BSPT, BSP)
Flanged*/ Socket Weld

*End connection flanges of ASTM A105 forged carbon steel are welded on.

Non IBR¹ / IBR

LIMITING CONDITIONS:

PMA: Max allowable pressure	16 bar(g)
TMA: Max. allowable temperature	220 °C
PMO: Max operating pressure	14 bar(g)
TMO: Max. operating temperature	220 °C
Body shell design rating	20 bar(g) 426 °C
Cold hydro test pressure	32 bar(g)



INSTALLATION:

Horizontal installation with flow from left to right.

The trap should be installed horizontally below the drain point of the equipment in a position such that the float arm is in a horizontal plane and the float rises and falls vertically, with the flow direction as indicated on the cover.

The word 'TOP' on the nameplate indicates the top side of the trap.

Max. differential pressure range:

PT62-4.5 : 4.5 bar

PT62-10 : 10 bar

PT62-14 : 14 bar

TRAP DISCHARGE CAPACITY IN kg/hr

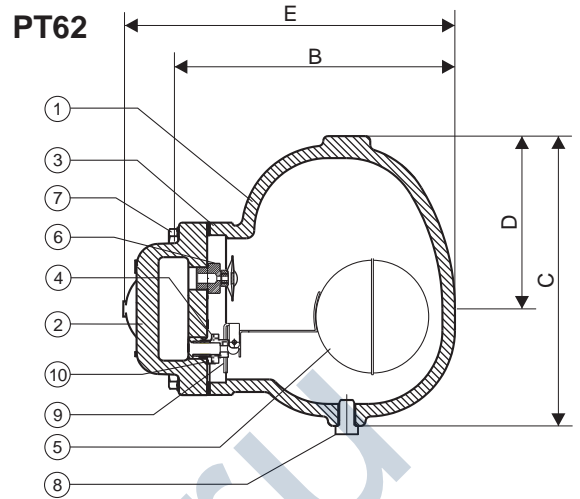
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)																	
		0.5	1.0	1.5	2.0	3.0	4.0	4.5	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	
PT62-4.5	DN15,20	200	280	321	350	400	454	495	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PT62-4.5	DN25	840	945	1049	1155	1358	1569	1673	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PT62-10	DN15,20	135	150	166	180	210	241	255	280	300	350	391	405	420	-----	-----	-----	-----	-----
PT62-10	DN25	604	654	710	760	870	974	1024	1079	1185	1290	1394	1499	1603	-----	-----	-----	-----	-----
PT62-14	DN15,20	125	140	150	165	190	221	230	246	271	296	325	350	375	405	430	454	482	-----
PT62-14	DN25	425	454	480	510	565	620	645	675	730	785	839	895	949	1004	1064	1120	1174	-----

Recommended safety factor: steady condns. 1.5 - 2; fluctuating condns. 2-3

¹Indian Boiler Regulations

MATERIAL:

NO.	PART	MATERIAL	QTY.(Nos.)
1.	BODY	ASTM A216 Gr. WCB	01
2.	COVER	ASTM A216 Gr. WCB	01
3.	GASKET	CAF / Non CAF	01
4.	VALVE SEAT	13% CR STEEL / AISI 410/420	01
5.	BALL FLOAT & LEVER ASSY.	AISI 304	01
6.	AIR VENT	STAINLESS STEEL	01
7.	BOLT	ASTM A193 Gr. B7	04
8.	DRAIN PLUG	CARBON STEEL	01
9.	BRACKET ASSY.	AISI 304	01
10.	GASKET	COPPER	01
11.	SLR UNIT	AISI 304	01

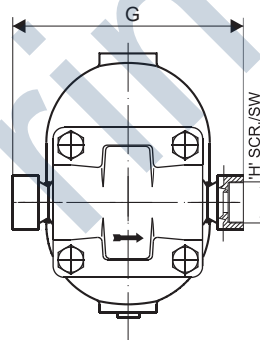

DIMENSIONS - Nominal in mm

SIZE	A	B	C	D	E	F	
						#150	#300
DN15	100	140	104	52	165	175	185
DN20	100	140	104	52	165	180	190
DN25	120	188	170	105	215	210	220

H	G
DN40 SCR	205
DN50 SCR	210
DN40 SW	195
DN50 SW	200

WEIGHTS - approx. in kg

SIZE	SCREWED/ SW ENDS	FLANGED ENDS	
		#150	#300
DN15	4.5	5.4	5.9
DN20	4.5	5.8	6.5
DN25	7.5	11.5	12.5


AVAILABLE SPARES:

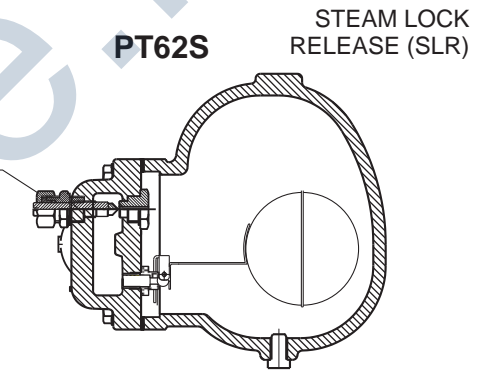
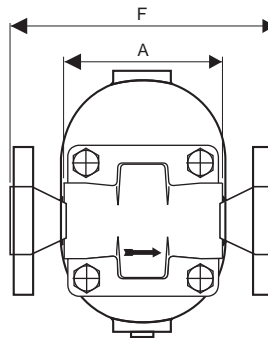
Valve Seat, Ball Float & Lever Assy., Airvent, Gaskets.

HOW TO ORDER:

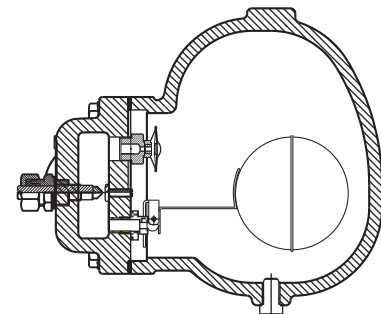
PT62-4.5 DN25 BSP NIBR

ORDERING INFORMATION:

- 1) Inlet Pressure in bar (g)
- 2) Back Pressure in bar (g)
- 3) Operating Temperature in °C
- 4) Condensate Load in kg/hr
- 5) Size & Model
- 6) End Connections.
- 7) IBR / NIBR



PT62C THERMOSTATIC AIR VENT + SLR



Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interest of development and improvement of the product, we reserve the right to change the specifications without prior notice.

DESCRIPTION:

PT62 float and thermostatic (internal air vent) steam traps are designed for draining condensate from all types of low and medium pressure steam heating and process equipment.

Typical applications include unit heaters, heat exchangers, driers and jacketed vessels.

Horizontal installation.

AVAILABLE TYPES:

PT 62 - with thermostatic air vent

PT 62S- SLR (with steam lock release)

PT 62C - with thermostatic air vent and SLR.

FEATURES:

Modulating discharge.

Discharges condensate at steam temperature.

Excellent air venting (by thermostatic air vent).

USE: Saturated and superheated steam.

SIZES: DN40, 50

CONNECTIONS: Screwed (NPT/BSPT/BSP)
Flanged / Socket weld

Non IBR¹ / IBR

LIMITING CONDITIONS:

PMA: Max allowable pressure	16 bar (g)
TMA: Max. allowable temperature	220 °C
PMO: Max ¹ operating pressure	14 bar (g)
TMO: Max. operating temperature	220 °C
Body shell design rating	20 bar (g) 426 °C
Cold hydro test pressure	32 bar (g)



INSTALLATION:

Horizontal installation with flow from left to right.

The trap should be installed horizontally below the drain point of the equipment in a position such that the float arm is in a horizontal plane and the float rises and falls vertically, with the flow direction as indicated on the cover.

The arrow on the nameplate should be pointing vertically upwards.

Max. differential pressure range:

PT62-4.5 : 4.5 bar

PT62-10 : 10 bar

PT62-14 : 14 bar

TRAP DISCHARGE CAPACITY IN kg/hr

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)																
		0.5	1	1.5	2	3	4	4.5	5	6	7	8	9	10	11	12	13	14
PT62-4.5	DN40,50	3022	3272	3521	3787	4295	4795	5056	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PT62-10	DN40,50	2234	2684	2847	2920	3097	3337	3417	3526	3700	4030	4404	4790	5119	-----	-----	-----	-----
PT62-14	DN40,50	1944	2268	2538	2777	2972	3097	3176	3251	3367	3620	3887	4125	4366	4586	4795	4994	5190

Recommended safety factor: steady condns. 1.5 - 2; fluctuating condns. 2-3

¹Indian Boiler Regulations

MATERIAL:

NO.	PART	MATERIAL	QTY.(Nos.)
1.	BODY	ASTM A216 Gr. WCB	01
2.	COVER	ASTM A216 Gr. WCB	01
3.	GASKET	CAF / Non CAF	01
4.	VALVE SEAT	13% CR STEEL / AISI 410/420	01
5.	BALL FLOAT & LEVER ASSY.	AISI 304	01
6.	AIR VENT	STAINLESS STEEL	01
7.	BOLT	ASTM A193 Gr. B7	06
8.	DRAIN PLUG	CARBON STEEL	01
9.	BRACKET ASSY.	AISI 304	01
10.	SLR UNIT	AISI 304	01

WEIGHT

Screwed/SW	Flanged
31 kg	35 kg

AVAILABLE SPARES:

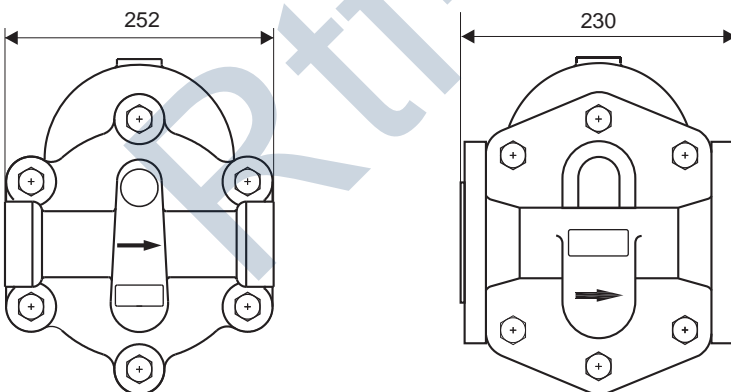
Valve Seat, Ball Float & Lever Assy., Air Vent, Gaskets.

HOW TO ORDER:

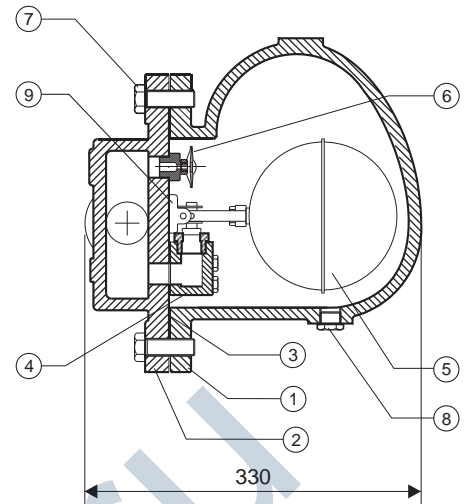
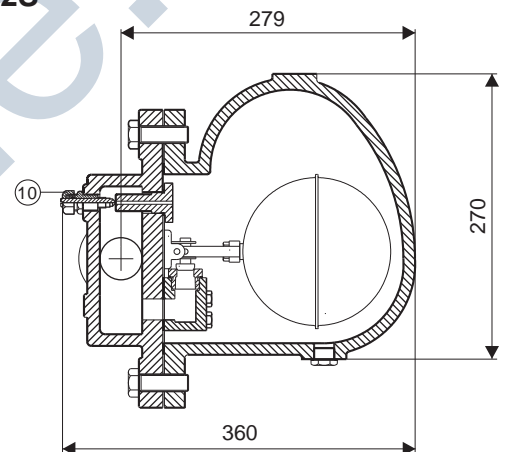
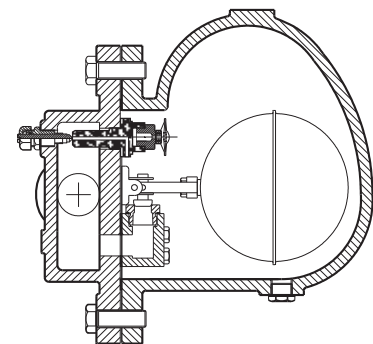
PT62-4.5 DN40 BSP NIBR

ORDERING INFORMATION:

- 1) Inlet Pressure in bar (g)
- 2) Back Pressure in bar (g)
- 3) Operating Temperature in °C
- 4) Condensate Load in kg/hr
- 5) Size & Model
- 6) End Connections.
- 7) IBR / NIBR



DIMENSIONS - Nominal in mm

PT62

PT62S

PT62C


Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interest of development and improvement of the product, we reserve the right to change the specifications without prior notice.

DESCRIPTION:

PT63 float and thermostatic (integral air vent) steam traps are designed for draining condensate from building heating installations. They can also be used in low pressure industrial installations.

FEATURES:

The "H" pattern offers users multiple fitment options.
 Modulating discharge of hot condensate at close to saturation temperature.
 Good air venting facilitates a fast start-up.

USE: Saturated and superheated steam

SIZES: DN20, 25, 32, 40, 50

CONNECTIONS: Screwed (NPT / BSPT / BSP)

LIMITING CONDITIONS:

PMA: Max. allowable pressure	16 bar(g)
TMA: Max. allowable temperature	220 °C
PMO: Max. operating pressure	8.5 bar(g)
TMO: Max. operating temperature	220 °C
Cold hydro test pressure	32 bar(g)


INSTALLATION:

It is important to install the trap with the arrow on the label pointing straight up so that the connecting pipes are horizontal.

Inlet and outlet connections are marked on the housing. Select connections suitable to the piping installation and plug the others.

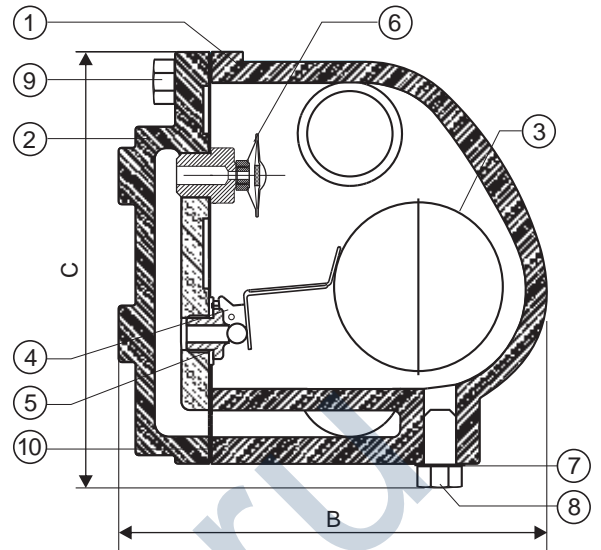
For effective condensate removal, the trap should be fitted below the drain point of the system being drained.

TRAP DISCHARGE CAPACITY IN kg/hr

MODEL	Size	DIFFERENTIAL PRESSURE (bar)																
		0.02	0.04	0.07	0.14	0.35	0.70	1.00	1.40	1.75	2.10	2.80	3.50	4.20	5.25	6.35	7.00	8.50
PT63-1.0	DN20,25	175	225	305	410	490	660	750	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PT63-1.0	DN32	195	260	350	465	855	1265	1365	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PT63-1.0	DN40,50	1035	1260	1650	2100	3135	4115	4945	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PT63-2.0	DN20,25	120	150	210	285	410	475	560	645	700	750	-----	-----	-----	-----	-----	-----	-----
PT63-2.0	DN32	175	225	305	410	490	660	750	840	1065	1225	-----	-----	-----	-----	-----	-----	-----
PT63-2.0	DN40,50	590	810	1160	1545	2355	3100	3545	3885	4215	4540	-----	-----	-----	-----	-----	-----	-----
PT63-5.0	DN20,25	110	135	190	230	285	330	375	410	445	465	540	610	670	745	-----	-----	-----
PT63-5.0	DN32	135	170	230	310	460	595	660	710	735	760	885	1000	1040	1135	-----	-----	-----
PT63-5.0	DN40,50	245	325	440	590	870	1210	1385	1545	1680	1820	1995	2160	2310	2465	-----	-----	-----
PT63-8.5	DN20,25	105	130	160	175	205	225	245	275	295	325	385	460	500	580	635	685	745
PT63-8.5	DN32	120	150	210	285	410	475	560	645	700	750	865	960	990	1085	1120	1215	1285
PT63-8.5	DN40,50	175	230	305	400	595	775	940	1050	1145	1230	1380	1465	1595	1725	1805	1910	2035

MATERIAL:

No.	PART	MATERIAL	QTY. (Nos.)
1.	BODY	CAST IRON	01
2.	COVER	CAST IRON	01
3.	BALL FLOAT & LEVER ASSY.	AISI 304	01
4.	BRACKET	AISI 304	01
5.	VALVE SEAT	13% CR STEEL / AISI 410 / 420	01
6.	AIR VENT	STAINLESS STEEL	01
7.	GASKET	CAF / Non CAF	01
8.	DRAIN PLUG	CARBON STEEL	01
9.	BOLT	HIGH TENSILE	06
10.	GASKET	CAF / Non CAF	01


DIMENSIONS - Nominal in mm

SIZE	A	B	C	D	E
DN 20,25,32	146	152	152	86	29
DN40, 50	190	205	210	100	65

WEIGHT (approx.)

DN20,25 : 5.5 kg

DN32 : 6 kg

DN40,50 : 11 kg

AVAILABLE SPARES:

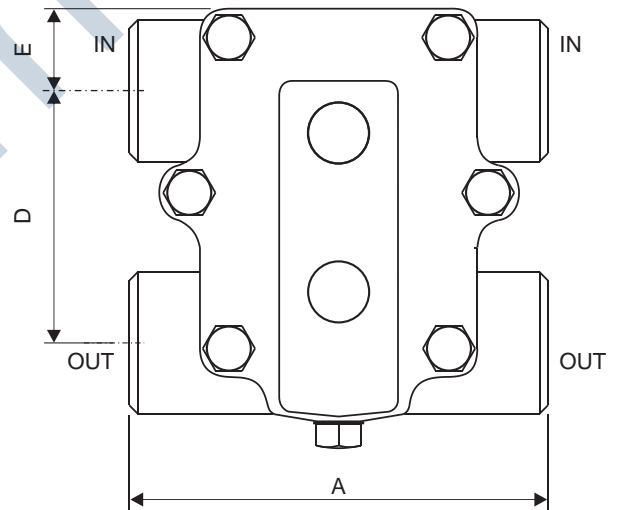
Valve Seat, Ball Float & Lever Assy., Air Vent, Gaskets.

HOW TO ORDER:

PT63-2.0 DN40 BSP

ORDERING INFORMATION:

- 1) Inlet Pressure in bar (g)
- 2) Back Pressure in bar (g)
- 3) Operating Temperature in °C
- 4) Condensate Load in kg/hr
- 5) Size & Model
- 6) End Connections.



Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interest of development and improvement of the product, we reserve the right to change the specifications without prior notice.

DESCRIPTION:

PT64 float and thermostatic (integral air vent) steam traps are designed for draining condensate from building heating installations. They can also be used in low pressure industrial installations.

FEATURES:

Modulating discharge of hot condensate at close to saturation temperature.

Good air venting facilitates a fast start-up.

USE: Saturated and superheated steam.

SIZES: DN32, 40, 50

CONNECTIONS: Screwed (NPT/BSPT/BSP)

LIMITING CONDITIONS:

PMA: Max allowable pressure	16 bar(g)
TMA: Max. allowable temperature	220 °C
PMO: Max. operating pressure	8.5 bar(g)
TMO: Max. operating temperature	220 °C
Cold hydro test pressure	32 bar(g)



INSTALLATION:

It is important to install the trap with the label on the top and the connecting pipes horizontal. Inlet and outlet connections are marked on the housing.

For effective condensate removal, the trap should be fitted below the drain point of the system being drained.

TRAP DISCHARGE CAPACITY IN kg/hr

MODEL	Size	DIFFERENTIAL PRESSURE (bar)													
		0.02	0.04	0.07	0.14	0.35	0.70	1.00	1.40	2.10	2.80	3.50	5.25	7.00	8.50
PT64-1.0	DN32,40	477	761	1090	1510	2270	3008	3428	----	----	----	----	----	----	----
	DN50	1033	1260	1646	2100	3133	4109	4938	----	----	----	----	----	----	----
PT64-2.0	DN32,40	454	602	772	1022	1537	2098	2511	2724	3178	----	----	----	----	----
	DN50	600	809	1158	1544	2352	3095	3542	3882	4536	----	----	----	----	----
PT64-5.0	DN32,40	243	327	441	591	868	1208	1358	1544	1816	1994	2157	2461	----	----
	DN50	377	495	672	908	1399	1873	2146	2361	2634	2917	3110	3512	----	----
PT64-8.5	DN32,40	173	232	307	400	595	772	938	1052	1231	1378	1465	1721	1907	2034
	DN50	250	305	398	563	897	1195	1385	1499	1739	1916	2089	2497	2779	3011

MATERIAL:

No.	PART	MATERIAL	QTY. (Nos.)
1.	BODY	CAST IRON	01
2.	COVER	CAST IRON	01
3.	BALL FLOAT & LEVER ASSY.	AISI 304	01
4.	BRACKET	AISI 304	01
5.	VALVE SEAT	13% CR STEEL / AISI 410/420	01
6.	AIR VENT	STAINLESS STEEL	01
7.	GASKET	CAF / Non CAF	01
8.	DRAIN PLUG	CARBON STEEL	01
9.	BOLT	HIGH TENSILE	06*
10.	GASKET	CAF / Non CAF	01

* 8 Nos. for DN50

WEIGHT (approx.)

DN32,40 : 7 kg

DN50 : 12 kg

AVAILABLE SPARES:

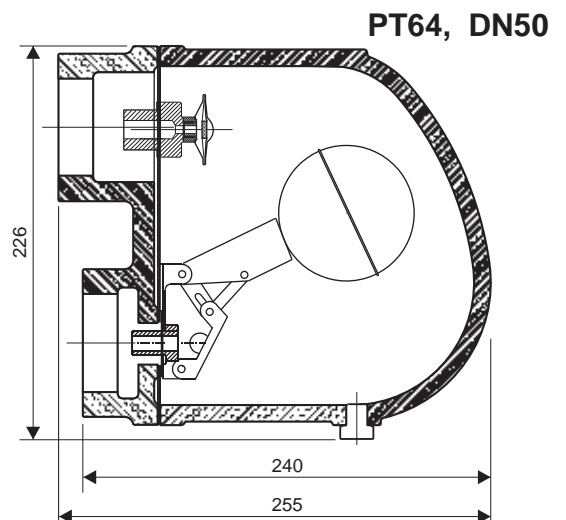
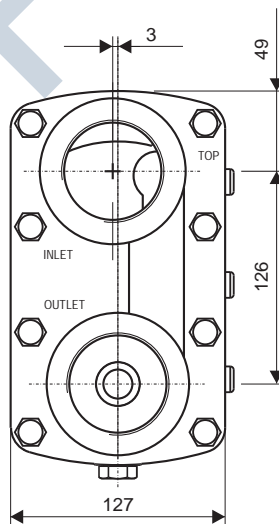
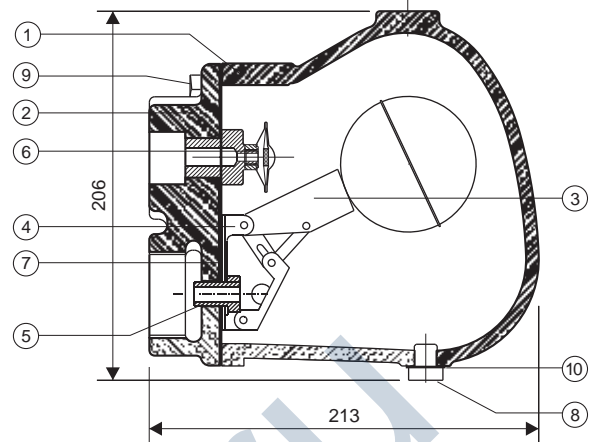
Valve Seat, Ball Float & Lever Assy., Air Vent, Gaskets.

HOW TO ORDER:

PT64-2.0 DN50 BSP

ORDERING INFORMATION:

- 1) Inlet Pressure in bar (g)
- 2) Back Pressure in bar (g)
- 3) Operating Temperature in °C
- 4) Condensate Load in kg/hr
- 5) Size & Model
- 6) End Connections.

DIMENSIONS - Nominal in mm

PT64 DN32, 40


Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interest of development and improvement of the product, we reserve the right to change the specifications without prior notice.

DESCRIPTION:

PT64H float and thermostatic (integral air vent) steam traps are designed for draining condensate from building heating installations and other low pressure and high condensation applications.

FEATURES:

Modulating discharge of hot condensate at close to saturation temperature. Good air venting facilitates a fast start-up. Suitable for high condensate load.

USE: Saturated and for superheated steam

SIZES: DN50

CONNECTIONS: Screwed (NPT/BSPT/BSP)

LIMITING CONDITIONS:

PMA: Max allowable pressure	16 bar (g)
TMA: Max. allowable temperature	220 °C
PMO: Max. operating pressure	3.5 bar (g)
TMO: Max. operating temperature	220 °C
Cold hydro test pressure	32 bar (g)



INSTALLATION:

It is important to install the trap with the label on the top and the connecting pipes horizontal.

Inlet and outlet connections are marked on the housing.

For effective condensate removal, the trap should be fitted below the drain point of the system being drained.

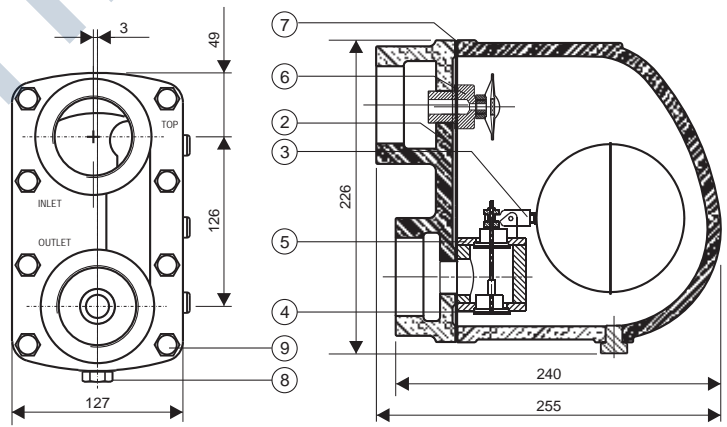
WEIGHT (approx.) : 13.2 kg

TRAP DISCHARGE CAPACITY IN kg/hr

MODEL	Size	DIFFERENTIAL PRESSURE (bar)										
		0.02	0.04	0.07	0.14	0.35	0.70	1.00	1.40	2.10	2.80	3.50
PT64H-3.5	DN50	1815	2495	3180	4315	4995	5810	6265	7265	7855	8355	9350

MATERIAL:

No.	PART	MATERIAL	QTY. (Nos.)
1.	BODY	CAST IRON	01
2.	COVER	CAST IRON	01
3.	BALL FLOAT & LEVER ASSY.	AISI 304	01
4.	VALVE	13% CR STEEL/	02
5.	VALVE SEAT	AISI 410/420	02
6.	AIR VENT	STAINLESS STEEL	01
7.	GASKET	CAF / Non CAF	01
8.	DRAIN PLUG	CARBON STEEL	01
9.	BOLT	HIGH TENSILE	08



All dimensions in mm

HOW TO ORDER:

PT64H-3.5 DN50 BSP

ORDERING INFORMATION:

- 1) Inlet Pressure in bar (g)
- 2) Back Pressure in bar (g)
- 3) Operating Temperature in °C
- 4) Condensate Load in kg/hr
- 5) Size & Model
- 6) End Connections.

AVAILABLE SPARES:

Valve Seat, Ball Float & Lever Assy., Air Vent, Gaskets.

Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interest of development and improvement of the product, we reserve the right to change the specifications without prior notice.