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# Product Catalog

Steam Traps • Drain Traps • Air Vents & Eliminators • Accessories • Piping Assemblies • Replacement Kits



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# DNV BUSINESS ASSURANCE MANAGEMENT SYSTEM CERTIFICATE

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# PENNANT ENGINEERING PVT. LTD.

at

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has been found to conform to the Quality Management System Standard:

ISO 9001:2008

This Certificate is valid for the following scope:

DESIGN, DEVELOPMENT, APPLICATION ENGINEERING, MANUFACTURE AND SUPPLY OF STEAM TRAPS. LIQUID DRAIN TRAPS & STRAINERS, PISTON VALVES, BALL VALVES, CONTROL VALVES & CONDENSATE PUMPS FOR THE PROCESS INDUSTRY

Initial Certification date: 23 March 1999

This Certificate is valid until: 19 November 2016

The audit has been performed under the supervision of:

Manish Lele Lead Auditor Place & date of issue: Chennai, 17 October 2013

for the Accredited Unit: DET NORSKE VERITAS CERTIFICATION B.V., THE NETHERLANDS

Bhupalam Ajit Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement & the annexure to this certificate may render this Certificate invalid.

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# CONTENTS

Sr. No.		Title	Page No
1.	Thermodyn	amic Steam Traps	
	PT10		
	PT11		
	PT11H		5
	PT13		7
	PT13R		9
	PT14		11
	PT15		13
	PT16		15
	PT17		
	PT17R		
	PT18		
	PT18V		
	P119		25
2.	Inverted Bu	cket Steam Traps	
	PT21		27
	PT22		
	PT23		
	PT23L		
	PT24		
	PT25		40
	PT26		43
3.	Float and T	nermostatic Steam Traps	
	PT61		45
	PT61SS		47
	PT62 - ½'	, 1"	
	PT62 - 1½	", 2"	51
	PT62HP	1/2". 3/4"	
	PT62HP	1½". 2"	
	PT63	,	
	PT64		
	PT64H		61
	PT65 - 1"		62
	PT65 - 11/	"	64
	PT66 - 11/	", 2"	
	PT67		
4.	Thermostat	c Steam Trap with Bimetallic Column	
	PT40	•	70
5.	Thermostat	c Steam Trap for Clean Steam Applicatio	ons
	DT30		70
	DT2/		
	F134		



# CONTENTS

Sr. No.	Title	Page No.
6.	Balanced Pressure Thermostatic Steam Traps	
	PT30	74
	PT31	76
	PT33	77
7.	Balanced Pressure Thermostatic Air Vent	
	PT31AV	79
8.	Float Type Air Eliminator	
	PA21	80
	PA61	82
	PAE10	83
9.	Liquid Drain Traps	
	PD11	
	PD61	85
	PD61SS	87
	PD62	
	PD63	91
	PD65	93
10.	Accessories	
	BDV - Blow-down Valve	95
	IT - Isotub	96
	PU11, PU11Y - Universal Connector	97
	PDF10 - Diffuser	
	PUN10 - Pipe Union	
	PVB10 - Vacuum Breaker	
	PG71 - Sight Glass (Sight Check)	
	PS11 - 'Y'- Strainer	102
	PC11 - Single Disc Non-Slam Check Valves	
	Fabricated Strainer	104
	Fabricated Separator	105
11.	Replacement Kits for Float & Thermostatic Steam Traps	
	PRK-15	
	PRK-44	
	PRK-46	
	PRK-63	109
12.	How to Order	110



# PT10 Thermodynamic Steam Traps

# 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 : NPS 1/2

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

Non IBR<sup>1</sup> / IBR approved

### LIMITING CONDITIONS:

PMA: Max. allowable pressure	300 psig		
TMA: Max. allowable temp.	800 °F		
Maximum operating back pressure at the outlet should not exceed 80% of the inlet pressure.			
Minimum differential pressure			
for satisfactory operation 3.5 psi			
Cold hydro test pressure	600 psig		

# 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.



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 inches

SIZE	A	В	С	D	Е	F	Wt.
1⁄2"	2.35	3.30	1.18	3.15	1.5	1.65	1.1 lbs

Flanged Trap

Model	Size / Rating	G	VVt.
PT10	1⁄2" / #150	55	3.8 lbs.

#### AVAILABLE SPARES:

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

#### ORDERING INFORMATION: Refer to "HOW TO ORDER" page.







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.





# PT11 Thermodynamic Steam Traps

# 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: NPS 1/2, 3/4, 1

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

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

Non IBR<sup>1</sup> / IBR approved

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	600 psig			
TMA: Max. allowable temp.	800 °F			
Maximum operating back pressure at the outlet should not exceed 80% of the inlet pressure.				
Minimum differential pressure for satisfactory operation3.5 psi				
Cold hydro test pressure	1200 psig			

# **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.



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

Screwed / Socket Weld traps

PT11	A	В	С	D	E	F	Wt.
1/2",3/4"	3.15	4.00	3.19	3.54	1.60	1.91	2.2 lbs
1"	3.78	4.76	3.58	4.25	2.05	2.27	4.85 lbs

#### Flanged traps

Model	Size/Rating	G	Wt.(approx.)
	1⁄2" /# 150	6.18	4.84 lbs
	1⁄2" / # 300	6.50	6.16 lbs
	1⁄2" / # 600	7.00	6.60 lbs
DT 11	³⁄₄" / # 150	6.30	5.83 lbs
	3⁄4" / # 300	6.70	7.70 lbs
	3⁄4" / # 600	7.16	8.25 lbs
	1" / # 150	7.16	9.57 lbs
	1" / # 300	7.68	12.21 lbs
	1" / # 600	8.19	12.87 lbs

#### AVAILABLE SPARES:

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

ORDERING INFORMATION: Refer to "HOW TO ORDER" page.







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# PT11H Thermodynamic Steam Traps

# DESCRIPTION:

High capacity 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 and the three port design ensures a clean and parallel lift of the disc with reference to the seat, reducing localized wear and tear.

The inbuilt strainer screen is of adequately large area.

Ideal for fluctuating loads and pressures.

Able to handle high condensate load.

Perfect shut-off, no steam loss.

SIZES: NPS 1/2, 3/4, 1

#### CONNECTIONS: Screwed (NPT/BSPT/BSP) Flanged\*, Socket weld \*End connection flanges of ASTM A105 forged carbon steel are welded on.

Non IBR<sup>1</sup> / IBR approved

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	600 psig			
TMA: Max. allowable temp.	800 °F			
Maximum operating back pressure at the outlet should not exceed 80% of the inlet pressure.				
Minimum differential pressure for satisfactory operation3.5 psi				
Cold hydro test pressure	1200 psig			

# 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 chokeup.



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

Screwed / Socket Weld traps

	PT11H	А	В	С	D	E	F	Wt.
Γ	1⁄2",3⁄4"	3.15	4.00	3.19	3.54	1.60	1.91	2.2 lbs
Γ	1"	3.78	4.76	3.58	4.25	2.05	2.27	4.85 lbs

#### Flanged traps

Model	Size/Rating	G	Wt.(approx.)
	1⁄2" /# 150	6.18	4.84 lbs
	1⁄2" / # 300	6.50	6.16 lbs
	1⁄2" / # 600	7.00	6.60 lbs
	3⁄4" / # 150	6.30	5.83 lbs
	3⁄4" / # 300	6.70	7.70 lbs
	3⁄4" / # 600	7.16	8.25 lbs
	1" / # 150	7.16	9.57 lbs
	1" / # 300	7.68	12.21 lbs
	1" / # 600	8.19	12.87 lbs

#### AVAILABLE SPARES:

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

#### **ORDERING INFORMATION:**

Refer to "HOW TO ORDER" page.







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# PT13 Thermodynamic Steam Traps

# DESCRIPTION

Thermodynamic steam trap in alloy steel construction with full stainless steel internals. Best suited for medium/high pressure line drains, with low to medium condensate load.

# SALIENT FEATURES:

- Complete stainless steel internals ensure better mechanical & corrosion resistance properties.
- Condensate entry below the disc, concentric to the disc/seat ensures a clean & parallel lift of the disc with reference to the seat, eliminating localised wear & tear.
- The disc & seat are fully hardened by a special hardening process, to withstand continuous, prolonged operation.
- Perfect shut off, no steam loss.
- Robust, maintenance free, fully guaranteed.

SIZES: NPS 1/2, 3/4

CONNECTIONS: Socket weld / Flanged\* \*End connection flanges are welded on.

Non IBR<sup>1</sup> / IBR

#### LIMITING CONDITIONS:

PMA: Max. allowable pressure	925 psig		
TMA: Max. allowable temp.	950 °F		
Maximum operating back pressure at the outlet should not exceed 80% of the inlet pressure			
Minimum differential pressure for satisfactory operation	21 psi		
Cold hydro test pressure	1850 psig		

# INSTALLATION:

The trap will operate in any position but the preferred installation is in a horizontal position with the cover 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:

All worn or damaged parts should be replaced with new spares. The disc seat is not replaceable. Ensure that all gaskets are replaced every time the trap is dismantled.

#### **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.



-			
No.	PART	MATERIAL	QTY. (Nos.)
1.	BODY	ASTM A217 Gr. WC6	1
2.	COVER	ASTM A217 Gr. WC6	1
3.	STRAINER CAP	ASTM A217 Gr. WC6	1
4.	DISC SEAT	ASTM A681 Gr. D2	1
5.	DISC	ASTM A681 Gr. D2	1
6.	STRAINER	AISI 304	1
7.	GASKET	SPIRAL WOUND (SS) WITH GRAFOIL FILLER	1
8.	BOLT	ASTM A193 Gr. B7	4

#### **DIMENSIONS** - Nominal in inches

END	SIZE	A	В	С	D	Е	Wt.
CONNS.							
SOCKET	1/2" 3/1	3 54	3 15	2 16	4.0	1 57	55lbs
WELD	72,74	0.04	0.10	2.10	4.0	1.07	0.0 103

#### AVAILABLE SPARES:

Disc, Set of Gaskets, Strainer Screen

#### **ORDERING INFORMATION:**

Refer to "HOW TO ORDER" page.



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Feb. 2010



# PT13R Thermodynamic Steam Traps (with replaceable seat)

## DESCRIPTION

Thermodynamic steam trap in carbon steel construction with full stainless steel internals. Best suited for medium/high pressure line drains, with low to medium condensate load.

## SALIENT FEATURES:

- Complete replaceable working parts (disc & seat)
- Complete stainless steel internals ensure better mechanical & corrosion resistance properties.
- Condensate entry below the disc, concentric to the disc/seat ensures a clean & parallel lift of the disc with reference to the seat, eliminating localized wear & tear.
- The disc & seat are fully hardened by a special hardening process, to withstand continuous, prolonged operation.
- Perfect shut off, no steam loss.
- Robust, maintenance free, fully guaranteed.

#### SIZES: NPS 1/2, 3/4

CONNECTIONS: Socket weld / Flanged\*

\*End connection flanges are welded on.

Non IBR<sup>1</sup> / IBR

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	600 psig
TMA: Max. allowable temp.	800 °F
Maximum operating back pressure exceed 80% of the inlet pressure	re at the outlet should not
Minimum differential pressure for satisfactory operation	21 psi
Cold hydro test pressure	1200 psig

# INSTALLATION:

The trap will operate in any position but the preferred installation is in a horizontal position with the cover 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:

The trap should be dismantled periodically for cleaning of disc, seat and strainer screen. The disc and seat should be inspected for wear.

All worn or damaged parts should be replaced with new spares. Ensure that all gaskets are replaced every time the trap is dismantled.

# **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.



# PT13R Thermodynamic Steam Traps (with replaceable seat)

# MATERIAL:

No.	PART	MATERIAL	QTY. (Nos.)
1.	BODY	ASTM A216 Gr. WCB	1
2.	COVER	ASTM A216 Gr. WCB	1
3.	STRAINER CAP	ASTM A743 Gr. CA40	1
4.	DISC SEAT	ASTM A681 Gr. D2	1
5.	DISC	ASTM A681 Gr. D2	1
6.	STRAINER	AISI 304	1
7.	GASKET	SPIRAL WOUND (SS)	
		WITH GRAFOIL FILLER	3
8.	BOLT	ASTM A193 Gr. B7	4

### **DIMENSIONS - Nominal in inches**

END	SIZE	Α	В	С	D	Е	Wt.
CONNS.							
SOCKET WELD	1⁄2", 3⁄4"	3.54	3.15	2.16	4.0	1.57	5.5 lbs

### AVAILABLE SPARES:

Disc, Disc Seat, Set of Gaskets, Strainer Screen

### **ORDERING INFORMATION:**

Refer to "HOW TO ORDER" page.



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.









# PT14 Thermodynamic Steam Traps

# DESCRIPTION:

Thermodynamic steam trap with full stainless steel internals. Best suited for high pressure line drains with low to medium condensate loads.

### SALIENT FEATURES:

- Complete stainless steel internals ensure better mechanical & corrosion resistance properties.
- Condensate entry below the disc, concentric to the disc/seat ensures a clean & parallel lift of the disc with reference to the seat, eliminating localized wear & tear.
- The disc & seat are fully hardened by a special hardening process, to withstand continuous, prolonged operation.
- Perfect shut off, no steam loss.
- Robust, maintenance free, fully guaranteed.

SIZES: NPS 1/2, 3/4, 1

CONNECTIONS : Socket weld / Butt weld

Non IBR<sup>1</sup>/IBR approved.

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	3555 psig		
TMA: Max. allowable temp.	1000 °F		
Maximum operating back pressure at the outlet should not exceed 50% of the inlet pressure			
Max. operating pressure	2490 psig		
Minimum differential pressure for satisfactory operation	70 psi		
Cold hydro test pressure	7110 psig		

### INSTALLATION:

The trap will operate in any position but the preferred installation is in a horizontal position with the disc seat cover on top. Full port isolating valves should be installed upstream and downstream of the trap. After the first 24 hours of service the cover nuts should be checked for tightness.



#### MAINTENANCE:

The disc and seat should be inspected for wear.

All worn or damaged parts should be replaced with new spares. The disc seat is not replaceable. Ensure that all gaskets are replaced every time the trap is dismantled.

#### **IMPORTANT:**

- To prevent water logging, it is required that the line be drained using the bypass, at start-up.
- The trap should be installed as close as possible to the equipment to be drained.
- For new pipe lines, ensure that the lines are properly flushed, prior to fitting the trap.



NO.	PART	MATERIAL	QTY. (Nos.)
1.	BODY	ASTM A182 Gr. F22 Cl.3	01
2.	SEAT COVER	ASTM A182 Gr. F22 Cl.3	01
3.	STRAINER COVER	ASTM A182 Gr. F22 Cl.3	01
4.	DISC SEAT	ASTM A 681 Gr. BD2	01
5.	DISC	ASTM A 681 Gr. BD2	01
6.	STRAINER	AISI 304	01
7.	STUD	ASTM A193 Gr. B16	08
8.	NUT	ASTM A194 Gr. 7	08
9, 10.	GASKET	SWG SS304 with Graphite	02

### DIMENSIONS - Nominal in inches

END CONNS.	SIZE	Α	В	С	Wt.
Socket Weld	<sup>1</sup> ⁄2",¾",1"	5.90	4.30	4.72	27 lbs
Butt Weld	1⁄2",3⁄4",1"	5.90	4.72	4.92	25.6 lbs

## AVAILABLE SPARES:

Set of internal working parts:- Disc, Set of gaskets, Strainer screen (packet of 5).

### **ORDERING INFORMATION:**

Refer to "HOW TO ORDER" page.



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# PT15 Thermodynamic Steam Traps

# DESCRIPTION:

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

# FEATURES:

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

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: NPS 1

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

Non IBR<sup>1</sup> / IBR approved

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	600 psig		
TMA: Max. allowable temp.	800 °F		
Maximum operating back pressure at the outlet should not exceed 80% of the inlet pressure.			
Minimum differential pressure for satisfactory operation	3.5 psi		
Cold hydro test pressure	1200 psig		

### **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.



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 inches

SIZE	А	В	С	D	E	F	Wt.
1"	2.05	2.87	3.31	1.77	2.03	1.96	2.39 lbs

#### AVAILABLE SPARES:

Disc (Packet of 5)

#### **ORDERING INFORMATION:**

Refer to "HOW TO ORDER" page.





Side View



Discharge Capacity in lbs/hr

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.





# PT16 Thermodynamic Steam Traps

# 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 :NPS 1/4, 3/8, 1/2, 3/4, 1

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

Non IBR<sup>1</sup> / IBR approved

### LIMITING CONDITIONS:

PMA: Max. allowable pressure	600 psig
TMA: Max. allowable temp.	800 °F
Maximum operating back pressure exceed 80% of the inlet pressure.	e at the outlet should not
Minimum differential pressure for satisfactory operation	3.5 psi
Cold hydro test pressure	1200 psig

### **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.



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 inches

SIZE	А	В	С	D	Е	F	Weight
1/4"	1.69	2.44	2.36	1.57	1.5	1.91	1.43 lbs
3/8"	1.69	2.44	2.36	1.57	1.5	1.91	1.43 lbs
1/2"	1.69	2.44	2.56	1.57	1.5	1.91	1.65 lbs
3/4"	1.69	2.44	2.56	1.57	1.5	1.91	1.65 lbs
1"	1.97	2.87	3.35	1.77	1.81	2.27	3.52 lbs

AVAILABLE SPARES: Disc (Packet of 5)

ORDERING INFORMATION: Refer to "HOW TO ORDER" page.









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.





# PT17 Thermodynamic Steam Traps

## **DESCRIPTION:**

Thermodynamic steam trap with integral strainer, in forged carbon steel construction, for steam mains, tracers, headers & drip legs.

### FEATURES:

Complete stainless steel internals ensure better mechanical and corrosion resistance properties.

Hardened and lapped disc and seat provide a steam tight seal, withstanding continuous and prolonged operation. Condensate entry below the disc ensures a clean parallel lift of the disc with reference to the seat, eliminating localized wear & tear.

Ideal for fluctuating loads and pressures.

Perfect shut off, no steam loss.

SIZES: NPS 1/2, 3/4, 1

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

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

Non IBR<sup>1</sup> / IBR

### LIMITING CONDITIONS:

PMA: Max. allowable pressure	710 psig			
TMA: Max. allowable temp.	800 °F			
Maximum operating back pressure at the outlet should no exceed 80% of the inlet pressure.				
Minimum differential pressure for satisfactory operation	3.5 psi			
Cold hydro test pressure	1420 psig			

### **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:

The trap can be maintained inline 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 and seat is recommended.

Do not use abrasive / corrosive media for cleaning.

Only the disc and seat are subject to wear.

All worn or damaged parts should be replaced with new spares. The disc seat is not replaceable.

### **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.



No.	PART	MATERIAL	QTY. (Nos.)
1.	BODY	ASTM A105	01
2.	DISC CAP	ASTM A743 Gr. CA40	01
3.	STRAINER CAP	ASTM A743 Gr. CA40	01
4.	STRAINER SCREEN	AISI 304 (Perforated Sheet)	01
5.	DISC SEAT (Hardened)	AISI 420 / D2	01
6.	DISC (Hardened)	AISI 410 / 420 / D2	01
7*.	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 inches

For Screwed / Socket Weld traps

SIZE	Α	В	С	D	Е	F	Wt.
1⁄2",3⁄4"	3.35	4.02	2.17	3.35	1.6	1.91	2.8 lbs
1"	4.00	4.50	2.50	3.50	1.89	2.27	4.4 lbs

For Flanged traps

Size/Flange Rating	G	Wt. approx.
1⁄2" #150	6.38	5.50 lbs
1⁄2" #300	6.73	6.82 lbs
1⁄2" #600	7.20	7.70 lbs
<sup>3</sup> ⁄ <sub>4</sub> " #150	6.50	6.49 lbs
3⁄4" #300	6.89	8.36 lbs
<sup>3</sup> ⁄ <sub>4</sub> " #600	736	9.24 lbs
1" #150	7.40	9.57 lbs
1" #300	7.90	12.21 lbs
1" #600	8.10	13.20 lbs

### AVAILABLE SPARES:

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

ORDERING INFORMATION: Refer to "HOW TO ORDER" page.









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.





# PT17R Thermodynamic Steam Traps (with replaceable seat)

# **DESCRIPTION:**

Thermodynamic steam trap with integral strainer, in forged carbon steel construction, for steam mains, tracers, headers & drip legs.

### FEATURES:

Complete replaceable working parts (disc and seat) facilitate economical and easy maintenance.

Hardened and lapped disc and seat provide a steam tight seal, withstanding continuous prolonged operation. Condensate entry below the disc ensures a clean parallel lift of the disc with reference to the seat, eliminating localized wear & tear.

Ideal for fluctuating loads and pressures.

Perfect shut off, no steam loss.

SIZES: NPS 1/2, 3/4, 1

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

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

Non IBR<sup>1</sup> / IBR

#### LIMITING CONDITIONS:

PMA: Max. allowable pressure	450 psig			
TMA: Max. allowable temp.	800 °F			
Maximum operating back pressure at the outlet should no exceed 80% of the inlet pressure.				
Minimum differential pressure for satisfactory operation 3.5 psi				
Cold hydro test pressure	900 psig			

### 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:

The trap can be maintained inline 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 and seat is recommended.

Do not use abrasive / corrosive media for cleaning.

Only the disc and seat are subject to wear.

A worn disc and seat can be replaced, preferably as a set, along with the gaskets.

### **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.



No.	PART	MATERIAL	QTY. (Nos.)
1.	BODY	ASTM A105	01
2.	DISC CAP	ASTM A743 Gr. CA40	01
3.	STRAINER CAP	ASTM A743 Gr. CA40	01
4.	STRAINER SCREEN	AISI 304 (Perforated Sheet)	01
5.	DISC SEAT (Hardened)	AISI 420 / D2	01
6.	DISC (Hardened)	AISI 410 / 420 / D2	01
7.& 8.	GASKET	SPIRAL WOUND (SS) WITH GRAFOIL FILLER	02
9.	LOCATOR	AISI 304	01
10.	TUBE	AISI 304	01
11.	PIN	AISI 304	02
12.*	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 inches

SIZE	А	В	С	D	Е	F	Wt.
1⁄2",3⁄4"	3.35	4.02	2.17	3.35	1.6	1.91	2.8 lbs
1"	4.00	4.50	2.50	3.50	1.89	2.27	4.4 lbs

#### For Flanged traps

Size/Flange Rating	G	Wt. approx.
1⁄2" #150	6.38	5.50 lbs
1⁄2" #300	6.73	6.82 lbs
1⁄2" #600	7.20	7.70 lbs
<sup>3</sup> ⁄ <sub>4</sub> " #150	6.50	6.49 lbs
3⁄4" #300	6.89	8.36 lbs
<sup>3</sup> ⁄4" #600	736	9.24 lbs
1" #150	7.40	9.57 lbs
1" #300	7.90	12.21 lbs
1" #600	8.10	13.20 lbs

### AVAILABLE SPARES:

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

# ORDERING INFORMATION:

Refer to "HOW TO ORDER" page.







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.





# PT18 Thermodynamic Steam Traps for Universal Connector

# DESCRIPTION:

Thermodynamic steam trap with universal connector provides a handy solution for maintenance and replacement without disturbing the existing piping.

# FEATURES:

The universal connector, once installed, remains on the pipeline permanently. The trap itself is attached to the connector by two bolts, enabling quick installation and replacement. The connector design facilitates vertical / horizontal installation or any angle in-between, regardless of piping configuration.

Ideal for on/off discharge with tight shut off and no-bleed or "controlled" leakage in constant pressure / constant load applications.

The trap is of stainless steel construction and integral seat design with hardened disc and seating surface.



Picture shows the PT18 trap fitted with a PU11 connector

SIZES: NPS 1/2, 3/4

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

Non IBR<sup>1</sup> / IBR approved

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	600 psig			
TMA: Max. allowable temp.	800 °F			
Maximum operating back pressure at the outlet should not exceed 80% of the inlet pressure.				
Minimum differential pressure for satisfactory operation	3.5 psi			
Cold hydro test pressure	1200 psig			

# INSTALLATION:

The connector can be installed in horizontal or vertical lines. The connector face must be in a vertical plane. The trap should be fitted to the connector with its cap uppermost. Full-port isolating valves should be installed upstream and downstream of the connector.

# MAINTENANCE:

The trap can be removed for repair or replacement without disturbing the connector piping connections. Complete isolation of the connector from both supply and return line is required before the trap is removed. The trap should be removed from the connector and inspected and cleaned periodically.

### **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 chokeup.



No.	PART	MATERIAL	QTY. (Nos.)
1.	BODY (Seat Hardened)	ASTM A743 Gr. CA40 (Cast Equiv. AISI 420)	01
2.	CONNECTOR	ASTM A351 Gr. CF8	01
3.	FLANGE	AISI 410	01
4.	DISC CAP	ASTM A743 Gr. CA40 (Cast Equiv. AISI 420)	01
5.	DISC (Hardened)	AISI 410	01
6.	RETAINER RING	STAINLESS STEEL	01
7.& 8.	GASKET	SPIRAL WOUND (SS) WITH GRAFOIL FILLER	02
9.	BOLT	ASTM A193 Gr. B7 / SS	02
10.	STRAINER SCREEN	AISI 304 (Perforated Sheet)	01
11.	STRAINER CAP	ASTM A743 Gr. CA40 (Cast Equiv. AISI 420)	01
12.*	ISOTUB	STAINLESS STEEL	01

Items 10 & 11 are parts of PU11Y

#### \* 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 inches

MODEL	А	В	С	D	E	Wt.
PT18	4.64	3.38	1.69	2.87	2.02	3.68 lbs
PT18Y	6.14	3.38	2.28	3.15	2.02	4.73 lbs

### AVAILABLE SPARES:

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

### **ORDERING INFORMATION:**

Refer to "HOW TO ORDER" page.



View shows PT18 trap assembled with PU11 connector





View shows PT18 trap assembled with PU11Y connector PU11 / PU11Y are not part of PT18 and need to be ordered separately. Refer PU11 /PU11Y data sheet for details.



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.





# PT18V Thermodynamic Steam Traps with Universal Connector

# DESCRIPTION:

Thermodynamic steam trap with universal connector provides a handy solution for maintenance and replacement without disturbing the existing piping.

# FEATURES:

The universal connector, once installed, remains in the pipeline permanently. The trap itself is attached to the connector by two bolts, enabling quick installation and replacement.

Ideal for on/off discharge with tight shut off constant pressure / constant load applications.

The trap is of stainless steel construction and integral seat design with hardened disc and seating surface



Picture shows the PT18V trap fitted with a PU11 connector

SIZES: NPS 1/2, 3/4

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

Non IBR<sup>1</sup> / IBR approved

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	600 psig				
TMA: Max. allowable temp.	800 °F				
Maximum operating back pressure at the outlet should not exceed 80% of the inlet pressure					
Minimum differential pressure					
for satisfactory operation 3.5 psi					
Cold hydro test pressure	600 psig				

# **INSTALLATION:**

The connector can be installed in horizontal or vertical lines. The connector face must be in a horizontal plane. The trap should be fitted to the connector with its cap uppermost. Full-port isolating valves should be installed upstream and downstream of the connector

# MAINTENANCE:

The trap can be removed for repair or replacement without disturbing the connector piping connections. Complete isolation of the connector from both supply and return lines is required before the trap is removed.

# **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.



No.	PART	MATERIAL	QTY.
1.	BODY (Seat Hardened)	AISI 420	01
2.	CONNECTOR	ASTM A351 Gr. CF8	01
3.	FLANGE	AISI 410	01
4.	DISC CAP	ASTM A743 Gr. CA40 (Cast Equiv. AISI 420)	01
5.	DISC (Hardened)	AISI 410	01
6.	RETAINER RING	STAINLESS STEEL	01
7.& 8.	GASKET	SPIRAL WOUND (SS) WITH GRAFOIL FILLER	02
9.	BOLT	ASTM A193 Gr. B7 / SS	02
10.	STRAINER SCREEN	AISI 304 (Perforated Sheet)	01
11.	STRAINER CAP	ASTM A743 Gr. CA40 (Cast Equiv. AISI 420)	01
12.*	ISOTUB	STAINLESS STEEL	01

Items 10 & 11 are parts of PU11Y.

#### \* OPTIONAL FITTINGS

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

BLOW-DOWN VALVE (Available only in PU11Y) :

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

### **DIMENSIONS** - Nominal in inches

MODEL	А	В	С	D	Wt.
PT18V	4.25	2.87	1.69	3.46	2.97 lbs

#### AVAILABLE SPARES:

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

ORDERING INFORMATION: Refer to "HOW TO ORDER" page.



View shows PT18 trap assembled with PU11 connector





PU11 / PU11Y are not part of PT18 and need to be ordered



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.





# PT19 Thermodynamic Steam Traps

# DESCRIPTION:

Thermodynamic steam trap without integral strainer. Compact, light weight design, in full stainless steel (SS316L) 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.

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: NPS 1/4, 3/8, 1/2, 3/4, 1

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

Non IBR<sup>1</sup> / IBR approved

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	228 psig			
TMA: Max. allowable temp.	842 °F			
Maximum operating back pressure at the outlet should not exceed 80% of the inlet pressure.				
Minimum differential pressure for				
satisfactory operation.	3.5 psi			
Cold hydro test pressure	456 psig			

### **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.



No.	PART	MATERIAL	QTY (Nos.)
1.	BODY	ASTM A351 Gr. CF3M	01
2.	DISC CAP	ASTM A351 Gr. CF3M	01
3.	DISC	AISI 316L	01

#### **DIMENSIONS** - Nominal in inches

SIZE	А	В	С	D	E	F	Weight
1/4"	1.69	2.44	2.36	1.57	1.5	1.91	1.4 lbs
3/8"	1.69	2.44	2.36	1.57	1.5	1.91	1.43 lbs
1/2"	1.69	2.44	2.56	1.57	1.5	1.91	1.65 lbs
3/4"	1.69	2.44	2.56	1.57	1.5	1.91	1.65 lbs
1"	1.97	2.87	3.35	1.77	1.81	2.27	3.52 lbs



#### AVAILABLE SPARES Disc (Packet of 5)

DISC (Packet of 5)

#### ORDERING INFORMATION: Refer to "HOW TO ORDER" page.





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.





# PT21 Inverted Bucket Steam Traps (Cast Iron)

## DESCRIPTION:

Inverted bucket steam trap with 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 pressures, 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: NPS 1/2, 3/4, 1, 11/2

CONNECTIONS: Screwed (NPT/BSPT/BSP)

### LIMITING CONDITIONS:

PMA: Max. allowable pressure	250 psig				
TMA: Max. allowable temp.	428 °F				
Maximum operating back pressure at the outlet should not exceed 90% of the inlet pressure					
Minimum diff. pressure for					
satisfactory operation	1.5 psi				
Cold hydro test pressure	500 psig				

# INSTALLATION:

The trap must be fitted vertically, with the inlet from the bottom and the outlet at the top. Correct vertical fitment is essential for easy movement of the bucket. Care must be taken to ensure that the trap level is below the level of the equipment to be drained. The bypass arrangement should be above the level of the trap.

Fitment of a strainer before the trap inlet is recommended to prevent entry of dirt / foreign particles into the trap. Fullport 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 has to be removed from the line for maintenance. 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 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.

### **IMPORTANT:**

Ensure that the trap is primed by opening the inlet valve only a crack, at commissioning, 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.



No.	PART	MATERIAL	Qty. (Nos.)
1.	BODY	CAST IRON	01
2.	COVER	CAST IRON	01
3.	BUCKET ASSLY.	AISI 304 with CS reinforcing ring	01
4.	VALVE SEAT (Hardened)	13% CR STEEL/	01
5.	VALVE PIN (Hardened)	AISI 410/ 420	01
6.	BRACKET	AISI 304	01
7.	LEVER	AISI 304	01
8.	PLUG	CARBON STEEL	01
9.	GASKET	CAF / Non CAF	01
10.	BOLT	ASTM A193 Gr. B7	*
11.	NUT	ASTM A194 Gr. 2H	*
12.	PIPE	CARBON STEEL	01

Note: All internal screws are AISI 304

\* Sizes 1/2", 3/4" - 6 Nos., 1", 11/2" - 8 Nos.

# DIMENSIONS - Nominal in inches

MODEL	TRAP SIZE	ØA	В	Wt.
	1⁄2"	4.53	6.10	8.15 lbs
DT04	3⁄4"	4.53	6.69	9.25 lbs
FIZI	1"	7.32	11.10	35.20 lbs
	1½"	8.39	11.81	41.80 lbs

### AVAILABLE SPARES:

Spare Kit: Valve Pin, Valve Seat, Bracket & Lever Assly., (Operating diff. press. should be specified.) Bucket Assly., Gasket.

ORDERING INFORMATION:

Refer to "HOW TO ORDER" page.





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 MANT

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

	20		0	:	:	:	:	:	35	:	:	:	!	35	:	:	:	:	:	:	25	:	:	:	-	;	;	:	July
	56		77					!	11(				!	55(	1					-	22					1		!	
	228		750					-	1145					5285							5505								
	213		725						1125					5065							5285	6830							
	199		695						1100					4835							5065	6610							
	185		685	850					1080	1280				4625							4845	6390							
	170		660	825					1055	1235				4295	5505						4625	6165	7270						
	156		640	795					1035	1190				4075	5395						4405	5890	7050						
psi	142	CITY	615	750					066	1145				3800	5175						4130	5670	6830						
SSURE	128	CAPA	595	715					935	1100	1540			3525	4845	5505					3910	5395	6390	7930					
AL PRE	115	R G E	575	670	860				880	1055	1455			3250	4460	5285					3690	5065	6055	7490					
ERENTI,	100	CHAF	550	640	825				835	066	1365			2975	4130	5065					3470	4735	5615	6830	7710				
DIFF	85	DIS	505	605	795				770	905	1280			2645	3745	4845					3250	4405	5285	6280	7160				
	20		485	575	750	880			715	835	1145	1585		2370	3360	4295	5505				2975	3965	4845	5615	6390				
	57		440	530	705	815			640	750	1035	1475		2050	2920	3745	5065	5725			2755	3635	4405	4955	5725	7270			
	43		395	450	630	750			575	660	880	1320		1740	2535	3195	4295	5285			2535	3195	3855	4295	4955	6390			
	30		330	395	530	640	925		475	550	705	1125	1500	1365	2070	2645	3525	4515	5505		2205	2755	3195	3635	4075	5285	6610		i
	15		265	320	420	505	770	880	350	405	550	905	1100	1015	1550	1950	2535	3305	4185	6165	1675	2070	2535	2865	3195	3965	5615	7050	:
	7		220	255	320	405	595	750	265	320	405	685	835	835	1125	1410	1850	2645	3415	5395	1210	1630	2070	2370	2590	3195	4405	6165	
	4		175	220	285	330	440	550	220	275	330	505	660	660	880	1100	1365	1980	2865	4845	066	1320	1760	1980	2205	2645	3305	5285	
Drifice	Size	(inch)	3/32	7/64	1/8	5/32	3/16	1/4	7/64	1/8	5/32	3/16	1/4	3/16	7/32	1/4	9/32	5/16	3/8	1/2	1/4	9/32	5/16	11/32	3/8	7/16	9/16	3/4	
$\overline{\ }$		Size			17 "	2					3⁄4"													11/2"					'
Model					DT01						PT21						PT21							PT21					

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. 57 psig II) Back press. 14 psig III) Condensate load 440 lbs/hr. IV) Safety factor 2.
Model Selected: PT21-3/4" • Orifice Size : 5/32" • Capacity 880 lbs/hr @ a diff. press. of 43 psi.



# PT22 Inverted Bucket Steam Traps (Cast Iron)

# **DESCRIPTION:**

Inverted bucket steam trap with 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: NPS 1/2, 3/4

CONNECTIONS: Screwed (NPT/BSPT/BSP)

# LIMITING CONDITIONS:

Max. operating pressure	250 psig								
Max. operating temp.	428 °F								
Maximum operating back pressure at the outlet should not exceed 90% of the inlet pressure									
Minimum diff. pressure for satisfactory operation 1.5 psi									
Cold hydro test pressure	456 psig								

### **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.

# AVAILABLE SPARES:

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



# 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.

### **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.

ORDERING INFORMATION: Refer to "HOW TO ORDER" page.



# PT22 Inverted Bucket Steam Traps (Cast Iron)

# MATERIAL:

No.	PART	MATERIAL	QTY. (Nos.)
1.	BODY	CAST IRON	01
2.	COVER	CAST IRON	01
3.	BUCKET ASSLY.	AISI 304	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.	GASKET (COVER)	CAF / Non CAF	01
9.	BOLT	ASTM A193 Gr. B7	06
10.	PLUG	CARBON STEEL	02
11.	GASKET (PLUG)	CAF / Non CAF	02
12.	LOCATING TUBE	STAINLESS STEEL	01





#### DIMENSIONS - Nominal in inches

MODEL	SIZE	А	В	С	D	Wt.
PT22-½" PT22-¾"	1⁄2", 3⁄4"	4.72	3.95	5.12	2.8	5.9 lbs

### TRAP DISCHARGE CAPACITY IN lbs/hr

Model	Trap	Orifice		DIFFERENTIAL PRESSURE psi										
	Size	Size	7	14	30	43	57	70	85	100	120	142	150	
PT22	1⁄2", 3⁄4"	7/64"	145	255	395	475	550	585	615	640	660			

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.




# PT23 Inverted Bucket Steam Traps (Cast Iron)

### 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: NPS 1/2, 3/4, 1

CONNECTIONS: Screwed (NPT/BSPT/BSP)

### LIMITING CONDITIONS:

PMA: Max. allowable pressure	250 psig
TMA: Max. allowable temp.	428 °F
Maximum operating back pressund not exceed 90% of the inlet pressure of the inlet pressu	ure at the outlet should sure.
Minimum diff. pressure for	
satisfactory operation	1.5 psi
Cold hydro test pressure	456 psig

### **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.



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

# 

Inverted Bucket Steam Traps

**PT23** 

(Cast Iron)



### DIMENSIONS - Nominal in inches

MODEL	TRAP SIZE	А	В	С	D	Wt.
	1⁄2"	4.72	3.95	6.15	2.8	7 lbs
PT23	3⁄4"	4.72	3.95	7.91	3.66	8.4 lbs
	1"	7.10	6.30	10	5.85	20.25 lbs

### AVAILABLE SPARES:

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

Bucket Assly, Set of Gaskets, Strainer Screen.

ORDERING INFORMATION: Refer to "HOW TO ORDER" page.



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.





# PT-23 Discharge Capacity Chart for Inverted Bucket Traps

# ACTUAL CONTINUOUS DISCHARGE CAPACITY OF TRAPS IN POUNDS OF HOT CONDENSATE PER HOUR

	200								1245		
	175					860			1165		
	156		610			825			1100	-	1
	142		570	-		290			1070	-	-
	120		540	660		725	945		066	1895	1
	100	×	495	640		680	880		925	1830	-
SSURE psi	85	APACIT	460	615		640	835		850	1730	1
NTIAL PRE	20	RGE C	420	585		595	795		750	1595	
DIFFERE	57	DISCHA	395	550	615	550	725	905	685	1455	1960
	43		310	475	550	475	640	770	585	1320	1760
	30		275	395	460	395	550	685	440	1080	1410
	14		175	255	350	255	395	495	275	725	945
	7		88	145	240	145	265	350	145	420	585
Orifico	Size		3/32	7/64	1/8	7/64	1/8	5/32	7/64	5/32	3/16
Tran	Size			1/2 "			3⁄4"				
	Model			PT23			PT23			PT23	

# **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 = 1) Inlet press. 57 psig II) Back press. 14 psig III) Condensate load 440 lbs/hr. IV) Safety factor 2.
 Model Selected: PT23-1" • Orifice Size : 5/32" • Capacity 1320 lbs/hr @ a diff. press. of 43 psi.



# PT23L Inverted Bucket Steam Traps (Cast Iron)

### DESCRIPTION:

Inverted bucket steam trap with integral strainer and all stainless steel internals. Best suited for equipment drains with low 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: NPS 34, 1

CONNECTIONS: Screwed (NPT/BSPT/BSP)

### LIMITING CONDITIONS:

PMA: Max. operating pressure	250 psig
TMA: Max. operating temp.	428 °F
Maximum operating back presson not exceed 90% of the inlet presson the inlet presson of the inlet presson and	ure at the outlet should ssure.
Minimum diff. pressure for	
satisfactory operation	1.5 psi
Cold hydro test pressure	456 psig

### 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.

### AVAILABLE SPARES:

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



### 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.

ORDERING INFORMATION: Refer to "HOW TO ORDER" page.



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

### PT23L Inverted Bucket Steam Traps (Cast Iron)





### DIMENSIONS - Nominal in inches

MODEL	TRAP SIZE	А	В	С	D	Wt.
PT23I	3⁄4"	4.72	3.95	6.15	2.8	8.15 lbs
1 1202	1"					

### TRAP DISCHARGE CAPACITY IN lbs/hr

Model	Trap	Orifice			DIFF	FERENTIA	AL PRESS	SURE psi					
	Size	Size	r         DIFFERENTIAL PRESSURE psi           7         14         30         43         57         70         85         100         120         14           88         175         275         310         395         420         460         495         540         57           145         255         395         475         550         585         615         640         660           240         350         460         550         615										
	3/."	3/32"	88	175	275	310	395	420	460	495	540	570	
PT23L	1"	7/64"	145	255	395	475	550	585	615	640	660		
		1/8"	240	350	460	550	615						

### 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. 57 psig (4kg/cm<sup>2</sup>(g)) II) Back press. 14 psig (1 kg/cm<sup>2</sup>(g)) III) Condensate load 150 lbs/hr. (68 kg/hr.) IV) Safety factor 2. Model Selected: PT23L-20/25 • Orifice Size : 3/32" (2.5 mm) • Capacity 310 lbs/hr (140 kg/hr) @ a diff. press. of 43 psi. (3 kg/cm<sup>2</sup>)

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.





# PT24 Inverted Bucket Steam Traps

### **DESCRIPTION:**

Inverted bucket steam trap with all stainless steel internals, for high pressure steam systems.

### SALIENT 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 pressures, 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.

Robust, maintenance-free, fully guaranteed.

SIZES: NPS 1/2, 3/4, 1, 11/2, 2

CONNECTIONS: Socket weld / Flanged\*

\*End connection flanges are welded on.

Non IBR<sup>1</sup> / IBR.

### LIMITING CONDITIONS:

	Carbon Steel	Alloy Steel
PMA: Max. allowable pressure	900 psig	925 psig
TMA: Max. allowable temp.	800 °F	950 °F
Maximum operating back exceed 90% of the inlet pr	pressure at the o essure	utlet should not
Minimum diff. pressure for satisfactory operation	1.5 psi	1.5 psi
Cold hydro test pressure	1800 psig	1850 psig

### INSTALLATION:

The trap must be fitted vertically, with the inlet from the bottom and the outlet at the top. Correct vertical fitment is essential for easy movement of the bucket. Care must be taken to ensure that the trap level is below the level of the equipment to be drained. The bypass arrangement should be above the level of the trap.

Fitment of a strainer before the trap inlet is recommended to prevent entry of dirt/ foreign particles into the trap. Fullport isolation valves should be fitted before and after the trap, to be used when the trap has to be opened for maintenance.



### **IMPORTANT:**

Ensure that the trap is primed by opening the inlet valve only a crack, at commissioning, allowing water to fill the trap before the steam enters. Once steam enters, the inlet valve should be opened fully.

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.

### MAINTENANCE:

This product has to be removed from the line for maintenance. 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 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.



No.	PART	MATERIAL	QTY. (Nos.)
1.	BODY	ALLOY / CAST STEEL / SS	1
2.	COVER	ALLOY / CAST STEEL / SS	1
3.	BUCKET ASSEMBLY	AISI 304 with CS reinforcing ring	1
4.	VALVE SEAT (Hardened)	13% CR STEEL / AISI 410/ 420	1
5.	VALVE PIN (Hardened)	13% CR STEEL / AISI 410/ 420	1
6.	LEVER	AISI 304	1
7.	GASKET	CAF / Non CAF	1
8.	BOLTS	ASTM A193 Gr. B7	*
9.	NUTS	ASTM A194 Gr. 2H	*
10.	BRACKET ASSEMBLY	AISI 304	1
11.	PIPE	CARBON STEEL	1



Note: All internal screws are AISI 304

\* Varies with trap size (10 ~ 12)

### **DIMENSIONS** - Nominal in inches

MODEL PT24	TRAP	^	D	\\/+ **	Face to face Dimensions						
	SIZE	A	D	vvt.	#150	#300	#600				
	1/2"	5.43	7.13	15.4 lbs	10.25	10.63	11.05				
	3⁄4"	7.90	10.55	40 lbs	13.80	14.20	14.70				
PT24	1"	9.4	11.20	66 lbs	14.75	15.25	15.75				
	11⁄2"	12.20	15.25	121 lbs	19.10	19.50	20.00				
	2"	12.20	15.25	121 lbs	19.10	19.50	20.00				
	3⁄4"	5.43	7.13	15.4 lbs	10.25	10.70	11.20				
1 124*L	1"	7.90	10.55	40 lbs	14.05	14.55	15.10				

(★ Low capacity trap) \*\* For traps with socket weld ends

### AVAILABLE SPARES:

SPARE KIT: (Operating diff. press. should be specified) Valve Pin, Valve Seat, Bracket, Lever, Bucket, Gasket.

### HOW TO ORDER:

Refer to "HOW TO ORDER" page.

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.





PT-24 Discharge Capacity Chart for Inverted Bucket Traps

# ACTUAL CONTINUOUS DISCHARGE CAPACITY OF TRAPS IN POUNDS OF HOT CONDENSATE PER HOUR

	299 327 350		860 905 945						4360 4515 4625								6430 6565 666£								9275 20155 2070							
	270		815						4230								6300	8260							18500 1							
	250		770	1610					4055	5505							6145	8150							17620	22025						
	230		750	1565					3900	5285							6000	8040							16740	21365						
	213		725	1500					3700	5065			1				5835	7710	9140						15860	20705						
	199		695	1430	-				3525	4845		-					5670	7380	8700		-				14980	20045						
	185		685	1365	1720				3360	4625	5505						5505	6830	8315						5 14095	0 19165				:		
si	170	ТΥ	660	5 1280	0 1630			-	3140	5 4295	5 5340						5 5340	0 6390	0 7820						5 1321	0 1828(	2					
SURE p	2 154	APACI	5 640	5 123!	5 1540	-	-	-	0 292(	0 4075	5 5175	-	-	-	-		5 5175	5 6110	5 749(	-		-	-	-	1211	0 1740	5 2224	12	-	-	-	
L PRES	5 142	E C/	5 615	5 114	5 145	-		-	5 259	5 380	5 495		-	-	-	-	5 495	0 583	0 722	0	-				50 1123	10 1641	45 2114	45 2224	-	-	-	
RENTIA	5 12	HARG	5 59	15 105	30   136	50			35 231	50 352	30 462	35   550					30 462	t0 567	35   694	903 003				-	90 103	05 153	20 200	45 211				
DIFFE	0 11	DISCE	0 57	5 10	90 128	35 172			70 203	75 325	75 446	35 528					75 446	35 534	30 656	50 859					50 966	95 142	60 187	20 200	45			
	5 10		35 55	30 92	55 119	30 158		-	95 187	45 297	45 407	45 506	05	-	-		45 407	45 506	45 628	10 815	30				00 925	375 129	169	187	365 222			
	1 8		85 5(	70 8(	45 10	80 14	. 09		375 15	870 26	860 37	95 48	85 55				860 37	95 48	315 59	50 77	870 90	30	 		50 87	350 116	395   15 <sup>2</sup>	860 174	265 213			
	57 7		40 4	85 7	35 9.	145 12	350 17	-	210 13	050 23	920 33	745 42	J65 52	725			920 33	745 42	J65 56	390 70	270 83	370 90	-		380 81	310 103	335 14	875 15	945 203	585		
	43		395 4	575 6	750 8	990 1	500 10	-	055 1:	740 20	535 29	195 3.	205 50	285 5		-	535 23	195 3.	205 50	505 6:	165 7:	270 8;	470 -		165 7:	710 8	J575 12	895 13	3960 18	045 21	-	
	30		330 3	505	615	835	1320 1	1585	925 1	1365 1	2070 2	2645 3	3370 4	1515 5	505		2070 2	2645 3	3370 4	1735 5	5505 6	3165 7	9030 9		5615 6	3500 7	3810 10	910 11	3875 16	7840 2(	2245 -	
	15		265	375	440	640	1015 1	1320 1	715	1015 1	1540 2	1940 2	2535	3305 4	4185 5	5285	1540 2	1980 2	2535	3635 4	4185 5	4625 6	5610 5	8810	4295 5	4845 6	5390 8	7710 5	0130 1.	4095 1	8720 2.	1000
	7		220	265	330	485	835	1035	550	835	1125	1410	1850	2645	3415	4680	1125	1430	1870	2700	3415	3745	5175 (	7490 8	3525	3855	4515 (	5725	7490 1	10130 1	14315 1	0000
	4		200	220	275	330	705	795	375	660	880	1100	1365	1980	2865	3965	880	1100	1430	2205	2865	3085	4295	5065	2975	3085	3415	4625	5725	7930 1	11015 1	1 1005
Orifice	Size	(inch)	3/32	7/64	1/8	5/32	3/16	1/4	5/32	3/16	7/32	1/4	9/32	5/16	3/8	1/2	7/32	1/4	9/32	11/32	3/8	7/16	9/16	3/4	3/8	7/16	1/2	9/16	19/32	13/16	1.3/32	1 1 / 1
le	Trap	Size		_	1/2"	L 34"						1 34"	- -		_	_				:				_		_		11/2"	2"			

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. 57 psig II) Back press. 14 psig III) Condensate load 480 lbs/hr. IV) Safety factor 2.
Model Selected: PT24-20 • Valve Size : 7/32" • Capacity 2535 lbs/hr. @ a diff. press. of 43 psi.

2008



# PT25 Inverted Bucket Steam Traps

### **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: NPS 1/2, 3/4, 1, 11/2, 2

CONNECTIONS: Screwed (NPT, BSPT, BSP) / Socket weld / Flanged\* \*End connection flanges of ASTM A105 forged carbon steel are welded on.

Non IBR<sup>1/</sup>IBR

### LIMITING CONDITIONS:

PMA: Max. allowable pressure	355 psig							
TMA: Max. allowable temp.								
(½" to 1" size)	800⁰⊢							
(1½" & 2" size)	650°F							
Maximum operating back pressure at the outlet should not exceed 90% of the inlet pressure.								
Minimum diff. pressure for								
satisfactory operation	1.5 psi							
Cold hydro test pressure	710 psig							

### 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. Care must be taken to ensure that the trap level is below the level of the equipment to be drained. 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.

<sup>1</sup>Indian Boiler Regulations



### 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



No.	PART	MATERIAL	QTY. (Nos.)
1.	BODY	ASTM A216 Gr. WCB	01
2.	COVER	ASTM A216 Gr. WCB	01
3.	BUCKET ASSEMBLY	AISI 304 with CS reinforcing ring	01
4.	LEVER ASSEMBLY	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	AISI 304 (Perforated Sheet)	01
9.	STRAINER CAP	ASTM A216 Gr. WCB	01
10.	GASKET (COVER)	CAF / Non CAF	01
11.	GASKET (STRAINER)	COPPER	01
12.	BOLT	A193 Gr. B7	*
13 &14.	PLUG	CARBON STEEL	01 each
15.	PIPE	CARBON STEEL	01

★ Sizes : Upto 1" - 06 Nos., 1.5" & 2" - 08 Nos.

### **DIMENSIONS** - Nominal in inches

MODEL	TRAP	А	В	С	D	Wt.**	E	Ξ
	SIZE						# 150	# 300
	1⁄2"	7.08	8.62	4.96	5.55	17.6 lbs	10.12	10.59
	3⁄4"	9.65	11.61	6.65	8.95	41.8 lbs	12.80	13.19
PT25	1"	11.10	12.99	7.17	10.30	68.2 lbs	14.48	15.0
	1½"	14.88	18.50	10.04	12.75	132 lbs	18.78	19.30
	2"	14.88	18.50	10.04	12.75	132 lbs	18.78	19.30
PT25-I *	3⁄4"	7.08	8.62	4.96	5.55	17.6 lbs	10.23	10.63
	1"	9.65	11.61	6.65	8.95	41.8 lbs	13.03	13.58

(★ Low capacity trap) \*\* For traps with screwed / socket weld ends

### AVAILABLE SPARES:

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

ORDERING INFORMATION: Refer to "HOW TO ORDER" page.

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.











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

		_																								-							July 2
	350		096						3965								5505									23790							
	327		905					!	3700								5175									21585							
	299		860						3525								4845									19825							
	270		815					-	3415								4405									18720							
	250		770						3305	4075							4075	8150								17620	22025						
-	230		750	1565				-	3150	3745							3745	7600							-	16720	21365						lsed.
	213		725	1500					2975	3525							3525	7270	8810							5860	0485						is to be u
-	199		695	1430					2755	3305	4295						3305	6830	8370							4980 1	9825 2						the trap
	185		685	1365	1720				2535	3085	4075						3085	3500	2030							4095 1	8720   1						at which
	170		660	1280	1630				2380 2	2865	3800 4						2865 3	3165 (	7490	9690				1		3215 1	7620 1	3130					oressure
RE psi	156	A C I T Y	640	1235	1540				2205	2755	3525	4625					2755 2	5835 (	7160	9250 9						2115 1	7180 1	2465 2					erential p
RESSUI	142	CAP	615	145	455				2070	2590	3305 3	1405 4					2590 2	505 2	3720	3811 9						1235 1	6080 1	1585 2					ating diff
TIAL PF	128	GЕ	598	1055	1365 1				870 2	2370 2	3030 3	1130 4					2370 2	5065 5	3390 6	3370 8	9030					0350 1	4980 1	0485 2					the oper
FEREN	115	CHAR	575	015 1	280	720			720 1	260 2	810	745 4	185				260 2	735 5	165 6	330 8	590 6					690 1	3655 1	9165 2				-	ess than
DIFI	00	DIS (	550 5	925 1	190 1	585 1		-	585 1	095 2	590 2	470 3	965 4				095 2	405 4	835 6	270 7	150 8	030 -			-	030 9	2775 13	400 19			- 	-	but not
	35		05 5	80	055 1	430 1	-	-	430 1	940 2	425 2	140 3	535 3	185 -	· 	· 	940 2	965 4	505 5	310 7	710 8	480 9			-	480 9	455 12	860 17	805 -		' 	-	ner than,
	71		85 5	70 8	945 1(	280 14	760 -	-	280 14	760 19	260 24	865 3.	250 36	745 4	-	; 	760 19	525 39	955 5!	055 6(	050 7.	040 84		-		040 84	350 11	535 15	265 21	-		-	ghtly high
-	. 22		40 4	85 7	35 6	145 1:	350 1	-	145 1:	585 1	980 2	545 2	920 3;	305 3.	•	•	585 1	385 3	405 4	505 6	390 70	270 8(	370 -	-	-	270 8(	310 10	775 14	945 20	-	-	-	to or sli
	43		95 4	75 6	50 8	90 1.	500 16	-	90 1	365 1	720 19	370 26	590 29	920 3:	- 581	; 	365 1	345 3(	355 44	325 5!	505 6:	155 72	160 8;	; 		165 7:	300 8{	015   12	960 18	045	; 	-	sponding
-	202		30 3	05 5	15 7	35 9	320 15	85	35 9	45 13	30 17	370 23	26 25	35 26	525 41		45 13	26 26	85 38	45 46	05 55	55 61	05 71	30	-	55 61	155 76	40 11	875 16	840 20	825	-	<b>hart</b> nn corres
-	5		65 3	75 5	40 6	40 8	15 13	20 15	40 8	80 11	12	20 18	15 22	80 25	65 35	.45	80 11	30 22	05 30	35 37	05 44	25 46	85 55	80 90		25 49	15 60	10 91	130 13	095 17	180 19	325	acity CI ure colur
	7		20 2	35 3.	30 4.	35 6	35 10	35 13	35 6,	20 8	30 10	90 13	65 16	30 19	35 28	95 37	20	25 14	10 22	80 25	25 33	45 35	05 41	25 62	90 88	45 35	05 45	25 66	90 10	130 14	375 17	720 220	of Cap
	1		5 22	0 26	35 33	30 48	05 83	95   10	30 48	12 21	50 85	35 99	00 13	10 16	95 25	45 31	15 77	35 92	00 14	40 19	70 24	05 26	45 33	05 46	65 74	05 26	45 33	25 46	25 74	30 101	15 138	95 187	on use different
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lel /	L'	Siz			55 1/2	5L 1				_		5 3%	5L 1		_						5							5 11	5 2				
Moc	`				PT	PT2						PT	PT2								PT							PT2	PT				

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 = 1) Inlet press. 57 psig II) Back press. 14 psig III) Condensate load 1056 lbs/hr. IV) Safety factor 2.
Model Selected: PT25-20 • Orifice Size: ¼" • Capacity 2370 lbs/hr. @ a diff. press. of 43 psi.

008



# PT26 Inverted Bucket Steam Traps

### **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: NPS 1/2, 3/4, 1

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	250 psig						
TMA: Max. allowable temp.	800 °F						
Maximum operating back pressure at the outlet should not exceed 90% of the inlet pressure							
Minimum diff. pressure for							
satisfactory operation 1.5 psi							
Cold hydro test pressure	456 psig						

### 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.

### AVAILABLE SPARES:

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



### 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.

ORDERING INFORMATION: Refer to "HOW TO ORDER" page.



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 inches

MODEL	TRAP	A	В	С	D	Wt.	E	
	SIZE					SCR./SW	#150	#300
PT26	1⁄2"	4.70	0.05	0.45	0.00	771	7.75	8.07
PT26L	3⁄4"	4.72	3.95	6.15	2.80	7.7 IDS	7.87	8.27
PT26	3⁄4"	4.70	0.05	7.04	0.00	0.0.11.2	7.87	8.27
PT26L	1"	4.72	3.95	7.91	3.66	9.0 IDS	8.07	9.13

### TRAP DISCHARGE CAPACITY IN lbs/hr

Model	Trap	Orifice				DIF	FEREN	TIAL PR	ESSURI	E psi				
	Size	Size	7	14	30	43	57	70	85	100	120	142	156	175
DT26	1/."	3/32"	88	175	275	310	395	420	460	495	540	570		
F120	/2	7/64"	145	255	395	475	550	585	615	640	660			
PT26L	3⁄4"	1/8"	240	350	460	550	615							
PT26	3⁄4"	7/64"	145	255	395	475	550	595	640	680	725	790	825	860
DTOOL	1"	1/8"	265	395	550	640	725	795	835	880	945			
FIZOL		8/32"	350	495	685	770	905							

### **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. 57 psig (4kg/cm<sup>2</sup>(g)) III) Back press. 14 psig (1 kg/cm<sup>2</sup>(g)) III) Condensate load 220 lbs/hr. (100 kg/hr.) IV) Safety factor 2. Model Selected: PT26-20 • Orifice Size : 7/64" (2.8 mm) • Capacity 475 lbs/hr (215 kg/hr) @ a diff. press. of 43 psi. (3 kg/cm<sup>2</sup>)

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.





## PT61 Float and Thermostatic Steam Traps ½", ¾", 1" DN15, DN20, DN25

### 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: NPS 1/2, 3/4, 1

CONNECTIONS: Screwed (NPT/BSPT/BSP)

### LIMITING CONDITIONS:

PMA: Max. allowable pressure	250 psig
TMA: Max. allowable temperature	425 °F
PMO: Max. operating pressure	200 psig
TMO: Max. operating temperature	425 °F
Cold hydro test pressure	450 psig



### **INSTALLATION:**

Standard horizontal installation withflow 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:

PT61-65 : 65 psi PT61-145 : 145 psi PT61-200 : 200 psi

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 lbs/hr

MODEL	TRAP		DIFFERENTIAL PRESSURE (psi)															
SIZE		7	15	21.5	28.5	42.5	57	65	70	85	100	115	128	145	157	170	185	200
PT61 - 65	1/2", 3/4"	440	616	705	770	880	1000	1090										
PT61 - 65	1"	1166	1540	1650	1936	2244	2420	2706										
PT61-145	1/2", 3/4"	297	330	365	396	462	530	560	615	660	770	860	890	925				
PT61-145	1"	506	704	814	924	1122	1254	1320	1408	1496	1562	1672	1760	1804				
PT61-200	1/2", 3/4"	275	308	330	363	418	485	506	540	595	650	715	770	825	890	946	1000	1060
PT61-200	1"	285	352	396	484	572	660	704	726	792	836	880	946	990	1012	1045	1078	1122



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 1" size (Not shown in view)

### **DIMENSIONS** - Nominal in inches

SIZE	А	В	С	D	Wt.
<sup>1</sup> ⁄2" & <sup>3</sup> ⁄4"	5.12	5.75	2.45	4.33	7.25 lbs
1"	5.71	6.38	2.32	4.33	9.45 lbs

### AVAILABLE SPARES:

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

### **ORDERING INFORMATION:**

Refer to "HOW TO ORDER" page.

Float and Thermostatic Steam Traps 1/2", 3/4", 1" DN15, DN20, DN25





TV (Thermostatic Air Vent)



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.





# PT61SS Float and Thermostatic Steam Traps ½", ¾" DN15, DN20

### 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: NPS 1/2, 3/4

CONNECTIONS: Screwed (NPT / BSPT / BSP) Socket weld / Flanged\* \*End connection flanges of Stainless steel are welded on.

### LIMITING CONDITIONS:

PMA: Max allowable pressure	250 psig
TMA: Max. allowable temperature	425 °F
PMO: Max <sup>a</sup> operating pressure	200 psig
TMO: Max. operating temperature	425 °F
Body shell design rating	285 psig 800 °F
Cold hydro test pressure	450 psig

### TRAP DISCHARGE CAPACITY IN lbs/hr



### INSTALLATION:

Standard horizontal installation withflow 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-65 : 65 psi PT61SS-145 : 145 psi PT61SS-200 : 200 psi

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.

MODEL	TRAP		DIFFERENTIAL PRESSURE (psi)															
MODEL	SIZE	7	15	21.5	28.5	42.5	57	65	70	85	100	115	128	145	157	170	185	200
PT61SS - 65	1/2", 3/4"	440	616	705	770	880	1000	1090										
PT61SS-145	1/2", 3/4"	297	330	365	396	462	530	560	615	660	770	860	890	925				
PT61SS-200	1/2", 3/4"	275	308	330	363	418	485	506	540	595	650	715	770	825	890	946	1000	1060



# PT61SS

Float and Thermostatic Steam Traps

<sup>1</sup>/<sub>2</sub>", <sup>3</sup>/<sub>4</sub>" DN15, DN20

### 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 inches

Size	A	В	С	D	E	Ξ
					#150	#300
<sup>1</sup> ⁄2", <sup>3</sup> ⁄4"	5.0	4.72	2.36	5.71	7.87	8.27

### WEIGHTS: (approx.)

Size	SCR / SW	FLANGED		
		#150	#300	
1⁄2"	7.25 lbs	10 lbs	10.75 lbs	
3⁄4"	7.25 lbs	11 lbs	12.75 lbs	

### AVAILABLE SPARES:

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

### ORDERING INFORMATION: Refer to "HOW TO ORDER" page.







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.





# PT62 Float and Thermostatic Steam Traps ½", ¾", 1" DN15, DN20, DN25

### 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: NPS 1/2, 3/4, 1

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

\*End connection flanges of ASTM A105 forged carbon steel are welded on. Non  $\rm IBR^1$  /  $\rm IBR$ 

### LIMITING CONDITIONS:

PMA: Max. allowable pressure	250 psig
TMA: Max. allowable temperature	425 °F
PMO: Max. operating pressure	200 psig
TMO: Max. operating temperature	425 °F
Body shell design rating	285 psig,
	800 °F
Cold hydro test pressure	450 psig



### 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:

PT62-65 : 65 psi PT62-145 : 145 psi PT62-200 : 200 psi

### TRAP DISCHARGE CAPACITY IN lbs/hr

MODEL	TRAP								DIFFERENTIAL PRESSURE (psi)									
WIODEL	SIZE	7	15	21.5	28.5	42.5	57	65	70	85	100	115	128	145	157	170	185	200
PT62-65	1/2", 3/4"	440	616	705	770	880	1000	1090										
PT62-65	1"	1850	2080	2310	2540	2990	3455	3685										
PT62-145	<sup>1</sup> / <sub>2</sub> ", <sup>3</sup> / <sub>4</sub> "	297	330	365	396	462	530	560	615	660	770	860	890	925				
PT62-145	1"	1330	1440	1562	1672	1915	2145	2255	2376	2610	2840	3070	3300	3530				
PT62-200	<sup>1</sup> / <sub>2</sub> ", <sup>3</sup> / <sub>4</sub> "	275	308	330	363	418	485	506	540	595	650	715	770	825	890	946	1000	1060
PT62-200	1"	935	1000	1056	1122	1243	1365	1420	1485	1606	1727	1848	1970	2090	2210	2343	2465	2585



### PT62 Float and Thermostatic Steam Traps \_\_\_\_\_\_½", ¾", 1" DN15, DN20, DN25

### 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 /	01
		AISI 410/420	
5.	BALL FLOAT	AISI 304	01
	& LEVER ASSY.		
6.	AIR VENT	STAINLESS STEEL	01
7.	BOLT	ASTM 193 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 inches

SIZE	А	В	С	D	E	F	Ģ	;
							#150	#300
1⁄2"	3.95	5.50	4.10	2.05	6.50	7.70	6.90	7.30
3⁄4"	3.95	5.50	4.10	2.05	6.50	7.70	7.10	7.50
1"	4.75	7.65	7.65	4.35	8.65	9.85	8.25	8.66

Н	Ι
1½" SCR	8.10
2" SCR	8.25
1½" SW	7.70
2" SW	7.90

### WEIGHTS - approx. in lbs

SIZE	SCREWED/	FLANGED ENDS				
	SW ENDS	#150	#300			
1⁄2"	9.9	12.0	13.0			
3⁄4"	9.9	12.8	14.3			
1"	16.5	25.3	27.5			

### AVAILABLE SPARES:

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

ORDERING INFORMATION: Refer to "HOW TO ORDER" page.







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.





# PT62 Float and Thermostatic Steam Traps 1.½" & 2" DN40, DN50

### 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: NPS 1½, 2

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

Non IBR<sup>1</sup> / IBR

### LIMITING CONDITIONS:

PMA: Max allowable pressure	250 psig
TMA: Max. allowable temperature	425 °F
PMO: Max <sup>a</sup> operating pressure	200 psig
TMO: Max. operating temperature	425 °F
Body shell design rating	285 psig 800 °F
Cold hydro test pressure	450 psig



### **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: PT62-65 : 65 psi PT62-145 : 145 psi PT62-200 : 200 psi

### TRAP DISCHARGE CAPACITY IN lbs/hr

DIFFERENTIAL PRESSURE (psi)																		
MODEL	SIZE	7	15	21.5	28.5	42.5	57	65	70	85	100	115	128	145	157	170	185	200
PT62-65	1.1⁄2", 2"	6655	7205	7755	8340	9460	10560	11135										
PT62-145	1.1⁄2", 2"	4920	5910	6270	6430	6820	7350	7525	7765	8150	8875	9700	10550	11275				
PT62-200	1.½", 2"	4280	4995	5590	6115	6545	6820	6995	7160	7415	7975	8560	9085	9615	10100	10560	11000	11430



	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 /	01
			AISI 410/420	
	5.	BALL FLOAT	AISI 304	01
		& LEVER ASSY.		
	6.	AIR VENT	STAINLESS STEEL	01
	7.	BOLT	ASTM 193 Gr. B7	06
	8.	DRAIN PLUG	CARBON STEEL	01
1	9.	BRACKET ASSY.	AISI 304	01
	10.	SLR UNIT	AISI 304	01

### WEIGHT

Screwed/SW	Flanged
68 lbs	77 lbs

### AVAILABLE SPARES:

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

### **ORDERING INFORMATION:**

Refer to "HOW TO ORDER" page.







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.











# PT62 HP Float and Thermostatic Steam Traps

### DESCRIPTION:

PT62 HP float and thermostatic (internal air vent) steam traps are designed for draining condensate from all types of 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: NPS 1/2, 3/4, 1

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

\*End connection flanges of ASTM A105 forged carbon steel are welded on. Non  $\rm IBR^1$  /  $\rm IBR$ 

### LIMITING CONDITIONS:

PMA: Max allowable pressure	450 psig
TMA: Max. allowable temperature	750 °F
PMO: Max <sup>®</sup> operating pressure	350 psig
TMO: Max. operating temperature	Sat.
Body shell design rating	600@RT
Cold hydro test pressure	900 psig



### 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: PT62-65 : 65 psi

PT62-145 : 145 psi PT62-200 : 200 psi PT62-350 : 350 psi

### TRAP DISCHARGE CAPACITY IN lbs/hr

MODEL	TRAP		DIFFERENTIAL PRESSURE (psi)											
SIZI	SIZE	7	15	28.5	42.5	65	100	125	145	175	200	250	300	350
PT62-65	<sup>1</sup> ⁄ <sub>2</sub> " ~ 1"	1850	2080	2540	2990	3685								
PT62-145	<sup>1</sup> ⁄2" ~ 1"	1330	1440	1670	1915	2255	2840	3300	3540					
PT62-200	<sup>1</sup> ⁄ <sub>2</sub> " ~ 1"	935	1000	1120	1245	1420	1725	1970	2090	2400	2585			
PT62-350	<sup>1</sup> / <sub>2</sub> " ~ 1"	450	615	770	880	1000	1050	1090	1150	1175	1200	1230	1255	1275



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 /	01
		AISI 410/420	
5.	BALL FLOAT	AISI 304	01
	& LEVER ASSY.		
6.	AIR VENT	STAINLESS STEEL	01
7.	BOLT	ASTM 193 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 inches

SIZE	А	В	С	D	E	F - Flanged		
						#150	#300	PN40
1⁄2"	4.75	7.35	6.70	4.35	8.65	7.70	8.10	7.10
3⁄4"	4.75	7.35	6.70	4.35	8.65	7.90	8.25	7.10
1"	4.75	7.35	6.70	4.35	8.65	8.25	8.65	7.10

### WEIGHTS - approx. in lbs

SIZE	SCREWED/	FLANGED ENDS						
	SW ENDS	#150	#300	PN40				
1⁄2"	17.6	24.2	25.3	25.3				
3⁄4"	17.6	26.0	27.5	27.5				
1"	17.6	26.3	28.8	28.8				

### AVAILABLE SPARES:

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

ORDERING INFORMATION: Refer to "HOW TO ORDER" page.





TF62S RELEASE (SLR)

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.





# PT62 HP Float and Thermostatic Steam Traps 1.½" & 2" DN40, DN50

### DESCRIPTION:

PT62 HP float and thermostatic (internal air vent) steam traps are designed for draining condensate from all types of 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: NPS 11/2, 2

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

\*End connection flanges of ASTM A105 forged carbon steel are welded on. Non  $\rm IBR^1$  /  $\rm IBR$ 

### LIMITING CONDITIONS:

PMA: Max allowable pressure	450 psig			
TMA: Max. allowable temperature	800 °F			
PMO: Max <sup>®</sup> operating pressure	350 psig			
TMO: Max. operating temperature	Sat.			
Body shell design rating	600@RT			
Cold hydro test pressure	1125 psig			

### 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: PT62-65 : 65 psi

PT62-145 : 145 psi PT62-200 : 200 psi PT62-350 : 350 psi

### TRAP DISCHARGE CAPACITY IN lbs/hr

MODEL	TRAP		DIFFERENTIAL PRESSURE (psi)											
MODEL SIZE		7	15	28.5	42.5	65	100	125	145	175	200	250	300	350
PT62-65	1½" ~ 2"	6655	7205	8340	9460	11135								
PT62-145	1½" ~ 2"	4920	5910	6430	6820	7525	8875	10550	11275					
PT62-200	1½" ~ 2"	4280	4995	6115	6545	6995	7975	9085	9615	10625	11430			
PT62-350	1½" ~ 2"	3390	3920	4910	5240	5615	5890	7490	7905	8985	9425	11420	12380	12775





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 /	01
		AISI 410/420	
5.	BALL FLOAT	AISI 304	01
	& LEVER ASSY.		
6.	AIR VENT	STAINLESS STEEL	01
7.	BOLT	ASTM 193 Gr. B7	06
8.	DRAIN PLUG	CARBON STEEL	01
9.	BRACKET ASSY.	AISI 304	01
10.	SLR UNIT	AISI 304	01

### DIMENSIONS - Nominal in inches

SIZE		А		
	SCR / SW	#150	#300	PN40
1½"	9.90	13.80	14.35	15.75
2"	9.90	13.80	14.35	15.75

### WEIGHT

Screwed/SW	Flanged
68 lbs	77 lbs

### AVAILABLE SPARES:

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

### **ORDERING INFORMATION:**

Refer to "HOW TO ORDER" page.





PT62S

PT62

 $\overline{(7)}$ 

9





**DIMENSIONS - Nominal in inches** 

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.



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PT62 HP Float and Thermostatic Steam Traps

**1.**½" & 2"

(6)



# PT63 Float and Thermostatic Steam Traps

### 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: NPS <sup>3</sup>/<sub>4</sub>, 1, 1<sup>1</sup>/<sub>4</sub>, 1<sup>1</sup>/<sub>2</sub>, 2

CONNECTIONS: Screwed (NPT / BSPT / BSP)

### LIMITING CONDITIONS:

PMA: Max. allowable pressure	250 psig
TMA: Max. allowable temperature	425 °F
PMO: Max. operating pressure	125 psig
TMO: Max. operating temperature	425 °F
Cold hydro test pressure	450 psig

### TRAP DISCHARGE CAPACITY IN lbs/hr



### 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.

MODEL	TRAP						DIF	FERE	NTIAL F	PRESS	URE (p	osi)						
MODEL	SIZE	1⁄4	1⁄2	1	2	5	10	15	20	25	30	40	50	60	75	90	100	125
PT63-15	<sup>3</sup> ⁄4", 1"	385	490	670	905	1075	1450	1650										
PT63-15	11⁄4"	430	570	770	1025	1880	2780	3005										
PT63-15	1½" <b>,2</b> "	2275	2775	3625	4625	6900	9050	10875										
PT63-30	<sup>3</sup> ⁄4", 1"	265	330	465	625	900	1050	1235	1425	1540	1650							
PT63-30	1¼"	385	490	670	905	1075	1450	1650	1850	2350	2700							
PT63-30	1½" <b>,2</b> "	1300	1780	2550	3400	5180	6815	7800	8550	9270	9990							
PT63-75	³⁄4", 1"	240	300	420	505	630	725	820	905	980	1020	1190	1345	1480	1645			
PT63-75	11⁄4"	295	375	510	685	1010	1310	1450	1565	1620	1675	1950	2205	2290	2500			
PT63-75	1½", <b>2</b> "	535	720	970	1300	1910	2660	3050	3400	3700	4000	4390	4750	5085	5420			
PT63-125	<sup>3</sup> ⁄4", 1"	225	285	350	385	455	500	535	600	650	720	850	1010	1100	1275	1400	1505	1640
PT63-125	11⁄4"	265	330	465	625	900	1050	1235	1425	1540	1650	1900	2115	2175	2385	2470	2680	2830
PT63-125	<b>1½",2</b> "	380	510	675	880	1310	1700	2065	2315	2515	2710	3035	3225	3505	3790	3965	4200	4480



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 inches

SIZE	A	В	С	D	E
3⁄4", 1", 11⁄4"	5.75	6.00	6.00	3.38	1.13
1½", 2"	7.5	8.0	8.25	4.0	2.55

### WEIGHT (approx.)

Size	Weight
³⁄₄", 1"	12.2 lbs
1¼"	13.2 lbs
1½", 2"	24.2 lbs

### AVAILABLE SPARES:

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

### ORDERING INFORMATION:

Refer to "HOW TO ORDER" page.

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.









# PT64 Float and Thermostatic Steam Traps

### 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: NPS 11/4, 11/2, 2

CONNECTIONS: Screwed (NPT/BSPT/BSP)

### LIMITING CONDITIONS:

PMA: Max allowable pressure	250 psig
TMA: Max. allowable temperature	425 °F
PMO: Max <sup>a</sup> operating pressure	125 psig
TMO: Max. operating temperature	425 °F
Cold hydro test pressure	450 psig

### TRAP DISCHARGE CAPACITY IN lbs/hr



### 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.

MODEL	TRAP					DII	FFEREN	ITIAL PF	RESSUF	RE (psi)					
	SIZE	1⁄4	1/2	1	2	5	10	15	20	30	40	50	75	100	125
PT64-15	1.¼", 1.½"	1050	1675	2400	3325	5000	6625	7550							
1104-15	2"	2275	2775	3625	4625	6900	9050	10875							
DT6/ 20	<b>1.</b> ¼", <b>1.</b> ½"	1000	1325	1700	2250	3385	4620	5530	6000	7000					
F104-30	2"	1300	1780	2550	3400	5180	6815	7800	8550	9990					
PT64-75	1.¼", 1.½"	535	720	970	1300	1910	2660	3050	3400	4000	4390	4750	5420		
1104-75	2"	830	1090	1480	2000	3080	4125	4725	5200	5800	6425	6850	7735		
PT64-125	<b>1.</b> <sup>1</sup> / <sub>4</sub> ", <b>1.</b> <sup>1</sup> / <sub>2</sub> "	380	510	675	880	1310	1700	2065	2315	2710	3035	3225	3790	4200	4480
1104125	2"	550	670	875	1240	1975	2630	3050	3300	3830	4220	4600	5500	6120	6630



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	CAE / Non CAE	01

\* 8 Nos. for 2" (DN50)

### WEIGHT (approx.)

Size	Weight
1¼", 1½"	15.4 lbs.
2"	26.5 lbs.

### **AVAILABLE SPARES:**

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

### **ORDERING INFORMATION:**

Refer to "HOW TO ORDER" page.







9.45 (240)

10.05 (255)

### **DIMENSIONS - Nominal in inches**

Local regulations may restrict the use of this product below the conditions guoted. 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.

5 (127)

INLET OUTLET



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8.90 (226)

93 (49)

4.95 (126)

0.12 (3)

### PT64 1<sup>1</sup>/<sub>4</sub>", 1<sup>1</sup>/<sub>2</sub>"



# PT64H Float and Thermostatic Steam Traps

### 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: NPS2

CONNECTIONS: Screwed (NPT/BSPT/BSP)

### LIMITING CONDITIONS:

PMA: Max allowable pressure	225 psig
TMA: Max. allowable temperature	425 °F
PMO: Max <sup>®</sup> operating pressure	50 psig
TMO: Max. operating temperature	425 °F
Cold hydro test pressure	450 psig



### **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.) : 29 lbs

### TRAP DISCHARGE CAPACITY IN lbs/hr

MODEL	TRAP		DIFFERENTIAL PRESSURE (psi)												
	SIZE	1/4	1/4         1/2         1         2         5         10         15         20         30         40         50												
PT64H-50	2"	4000	5500	7000	9500	11000	12800	13800	16000	17300	18400	20600			

### 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



### AVAILABLE SPARES:

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

ORDERING INFORMATION: Refer to "HOW TO ORDER" page.

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.





# PT65 Float and Thermostatic Steam Traps 1" DN25 (Cast Iron)

### **DESCRIPTION:**

Cast iron 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 65 - with thermostatic air vent PT 65S- SLR (with steam lock release) PT 65C - 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: NPS 1

CONNECTIONS: Screwed (NPT, BSPT, BSP)

### LIMITING CONDITIONS:

PMA: Max allowable pressure	250 psig
TMA: Max. allowable temperature	425 °F
PMO: Max <sup>-</sup> operating pressure	200 psig
TMO: Max. operating temperature	425 ºF
Cold hydro test pressure	450 psig



### 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: PT65-65 : 65 psi PT65-145 : 145 psi PT65-200 : 200 psi

### TRAP DISCHARGE CAPACITY IN lbs/hr

MODEL	TRAP		DIFFERENTIAL PRESSURE (psi)															
	SIZE	7	15	21.5	28.5	42.5	57	65	70	85	100	115	128	145	157	170	185	200
PT65-65	1"	1850	2080	2310	2540	2990	3455	3685										
PT65-145	1"	1330	1440	1562	1672	1915	2145	2255	2376	2610	2840	3070	3300	3530				
PT65-200	1"	935	1000	1056	1122	1243	1365	1420	1485	1606	1727	1848	1970	2090	2210	2343	2465	2585



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 /	01
		AISI 410/420	
5.	BALL FLOAT	AISI 304	01
	& LEVER ASSY.		
6.	AIR VENT	STAINLESS STEEL	01
7.	BOLT	ASTM 193 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 inches

SIZE	А	В	С	D	Е	F	Wt.
1"	4.75	7.40	6.90	4.15	8.45	9.65	15.4 lbs

### AVAILABLE SPARES:

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

ORDERING INFORMATION:

Refer to "HOW TO ORDER" page.



PT65C



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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.





## PT65 Float and Thermostatic Steam Traps 1.1/2" & 2" DN40, 50 (Cast Iron)

### **DESCRIPTION:**

Cast iron 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 65 - with thermostatic air vent PT 65S- SLR (with steam lock release) PT 65C - 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: NPS 11/2, 2

CONNECTIONS: Screwed (NPT/BSPT/BSP)

### LIMITING CONDITIONS:

PMA: Max. allowable pressure	250 psig
TMA: Max. allowable temperature	425 °F
PMO: Max. operating pressure	200 psig
TMO: Max. operating temperature	425 °F
Cold hydro test pressure	450 psig



### 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:

PT65-65 : 65 psi PT65-145 : 145 psi PT65-200 : 200 psi

### TRAP DISCHARGE CAPACITY IN lbs/hr

MODEL	TRAP		DIFFERENTIAL PRESSURE (psi)															
	SIZE	7	15	21.5	28.5	42.5	57	65	70	85	100	115	128	145	157	170	185	200
PT65-65	1.½", 2"	6655	7205	7755	8340	9460	10560	11135										
PT65-145	1.½", 2"	4920	5910	6270	6430	6820	7350	7525	7765	8150	8875	9700	10550	11275				
PT65-200	1.½", 2"	4280	4995	5590	6115	6545	6820	6995	7160	7415	7975	8560	9085	9615	10100	10560	11000	11430



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 /	01
		AISI 410/420	
5.	BALL FLOAT	AISI 304	01
	& LEVER ASSY.		
6.	AIR VENT	STAINLESS STEEL	01
7.	BOLT	ASTM 193 Gr. B7	06
8.	DRAIN PLUG	CARBON STEEL	01
9.	BRACKET ASSY.	AISI 304	01
10.	SLR UNIT	AISI 304	01



### WEIGHT:

64 lbs

### AVAILABLE SPARES:

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

### **ORDERING INFORMATION:**

Refer to "HOW TO ORDER" page.





**DIMENSIONS - Nominal in inches** 

9 (230)

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.





# PT66 Float and Thermostatic Steam Traps 1.½" & 2" DN40, 50

### DESCRIPTION:

High capacity 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 66 - with thermostatic air vent PT 66S- SLR (with steam lock release) PT 66C - 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: NPS 11/2, 2

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

Non IBR<sup>1</sup> / IBR

### LIMITING CONDITIONS:

PMA: Max. allowable pressure	250 psig
TMA: Max. allowable temperature	425 °F
PMO: Max. operating pressure	200 psig
TMO: Max. operating temperature	425 °F
Body shell design rating	286 psig 800 °F
Cold hydro test pressure	450 psig

### TRAP DISCHARGE CAPACITY IN lb/hr



### 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:

PT65-65 : 65 psi PT65-145 : 145 psi PT65-200 : 200 psi

MODEL		DIFFERENTIAL PRESSURE (psi)															
	0.5	1	2	5	10	14	20	30	40	50	65	75	100	120	140	175	200
PT66-65	1855	2270	3075	3560	3770	4365	4730	5860	6800	7615	9025						
PT66-145	1200	1510	1660	2210	2770	3385	3845	4310	4615	5075	5780	6155	7050	7850	8875		
PT66-200	765	925	1315	1520	1770	2155	2460	2755	2955	3250	3730	3935	4535	5020	5310	6205	6870



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 /	02
5.	VALVE PIN	AISI 410/420	02
6.	BALL FLOAT	AISI 304	01
7.	LEVER	AISI 304	01
8.	AIR VENT	STAINLESS STEEL	01
9.	BOLT	ASTM A193 Gr. B7	06
10.	DRAIN PLUG	CARBON STEEL	01
11.	STEM	AISI 304	01
12.	SLR UNIT	AISI 304	01

### WEIGHT

Screwed/SW	Flanged
68 lbs	77 lbs

### AVAILABLE SPARES:

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

### **ORDERING INFORMATION:**

Refer to "HOW TO ORDER" page.











**DIMENSIONS - Nominal in inches** 

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.




# PT67 High Capacity Float Operated Steam Traps

# DESCRIPTION:

PT67 high capacity float operated traps with manual airventing facility. Designed for draining condensate from all types of low and medium pressure heating and process equipment.

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

Horizontal installation.

### FEATURES:

Modulating discharge. Discharges condensate at steam temperature.

SIZES: NPS 3, 4, 6

CONNECTIONS: Flanged #150, #300

# LIMITING CONDITIONS:

PMA: Max allowable pressure	350 psig
TMA: Max. allowable temperature	615 ºF
PMO: Max <sup>-</sup> operating pressure	350 psig
TMO: Max. operating temperature	615 ºF

# INSTALLATION:

Horizontal installation.

The trap should be installed horizontally below the drain point of the equipment.

Max. differential pressure range:

PT67-70 : 70 psi

PT67-180 : 180 psi

# MATERIAL:

-				
ſ	NO.	PART	MATERIAL	QTY. (Nos)
	1.	BODY	ASTM A516 Gr. 70	01
	2.	DISH END-TOP	ASTM A516 Gr. 70	01
I	3.	DISH END-BOTTOM	ASTM A516 Gr. 70	01
	4.	BODY FLANGE	ASTM A516 Gr. 70	01
	5.	COVER PLATE	ASTM A516 Gr. 70	01
	6.	COVER GASKET	SPIRAL WOUND SS304 WITHGRAFOIL FILLER	01
	7.	VALVE ASSLY.	AISI 304	01
	8.	BALL FLOAT & LEVER ASSLY.	AISI 304	01
ſ	9.	BOLT	HIGH TENSILE	12
I	10.	DRAIN PLUG	CARBON STEEL	01
	11.	GASKET	AISI 304	01
	12.	AIR VENT	AISI 304	01
	13.	STAND	M.S.	01

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.



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All dimensions in mm



Feb. 2012



PT67High Capacity Float Operated Steam Traps





# PT40 Steam Trap with Bimetallic Column

# **DESCRIPTION:**

Thermostatic steam trap with bimetallic column, inbuilt strainer and stainless steel internals. Best suited for steam tracers, header drip legs, heating coils and various process & heating applications.

# FEATURES:

Stainless steel protected bimetal resist corrosion. Check valve acts as a back flow preventor.

Excellent resistance to water hammer.

Sub-cooling temperature is adjustable. Tight shut off. No steam loss.

Long lasting. Modulating discharge. Excellent air venting capability.

Suitable for both saturated & superheated steam applications.

SIZES : NPS 1/2, 3/4

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

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

Non IBR / IBR approved

# LIMITING CONDITIONS :

PMA: Max. allowable pressure	450 psig
TMA: Max. allowable temp.	800 °F
PMO: Max. operating pressure	PT40-22 315 psig
	PT40-30 425 psig
TMO: Max. operating temp.	760 °F
Cold hydro test pressure	630 psig

# AVAILABLE SPARES:

Controller Assy., Gaskets, Strainer Screen.

# ORDERING INFORMATION:

Refer to "HOW TO ORDER" page.



# **INSTALLATION:**

Trap should be installed in a horizontal plane with cover on the top, and below the drain point. Full port isolation valves should be installed upstream & downstream of the trap. Sufficient upstream piping capacity for accumulation of condensate should be provided to prevent condensate backing up into the equipment.

# **IMPORTANT:**

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



NO.	PART	MATERIAL	QTY. (Nos.)
1	Body	ASTM A105	01
2.	Cover	ASTM A216 Gr. WCB	01
3.	Controller Assy.	BIMETAL / SS	01
4.	Seat	STAINLESS STEEL	01
5.	Valve Stem	STAINLESS STEEL	01
6.	Strainer Screen	AISI 304	01
7.	Gasket	CAF / NON CAF	01
8.	Bolts	ASTM A193 Gr. B7	04

### **DIMENSIONS** - Nominal in inches

Size	A	В	С	D	
				#150	#300
1⁄2"	3.95	1.95	3.15	6.95	7.30
3⁄4"	3.95	1.95	3.15	7.10	7.50

### WEIGHTS: (approx.)

Size	SCR / SW	FLANGED	
		#150	#300
1⁄2"	4.2 lbs	7.0 lbs	7.7 lbs
3⁄4"	4.2 lbs	7.9 lbs	9.7 lbs







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.





# PT32 Thermostatic Steam Trap for Clean Steam Applications

# **DESCRIPTION**:

Thermostatic steam trap best suited for use in Clean Steam systems. All wetted parts of this trap are manufactured using materials as per FDA guidelines.

# FEATURES :

- Full stainless steel 316L construction
- Condensate draining close to steam temperature ensuring min. condensate back-up before discharge
- Highly polished for better cleaning and improved corrosion resistance. Surface finish Ra 20~25 micro inches
- Compact and light weight
- Easy to install
- Easy to dismantle and clean.

# **APPLICATIONS :**

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

SIZES : NPS 1/2", 3/4"

**CONNECTIONS** : Triclamp end

# LIMITING CONDITIONS :

PMA: Max. allowable press.	145 psig
TMA: Max. allowable temp.	350 °F
PMO: Max. operating press.	110 psig
TMA: Max. operating temp.	Saturation temperature

# INSTALLATION:

The trap is designed to be fitted vertically with inlet from the top, facilitating complete drainage. Ensure that the installation is done as per the flow direction marked on the body.

Do not expose the trap to superheated conditions.

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

# ORDERING INFORMATION:

Refer to "HOW TO ORDER" page.







# 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



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.





# PT34 Thermostatic Steam Trap for Clean Steam Applications

# **DESCRIPTION**:

High capacity thermostatic steam trap best suited for use in Clean Steam applications. All wetted parts of this trap are manufactured using materials as per FDA guidelines.

# FEATURES :

- Full stainless steel 316L construction
- Condensate draining close to steam temperature ensuring min. condensate back-up before discharge
- Highly polished for better cleaning and improved corrosion resistance. Surface finish Ra 20~25 micro inches
- Compact and light weight
- Easy to install
- Easy to dismantle and clean

# **APPLICATIONS:**

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

SIZES : NPS 1/2", 3/4"

**CONNECTIONS** : Triclamp end

# LIMITING CONDITIONS :

PMA: Max. allowable press.	145 psig
TMA: Max. allowable temp.	350 °F
PMO: Max. operating press.	90 psig
TMA: Max. operating temp.	Saturation temperature

# INSTALLATION:

The trap is designed to be fitted vertically with inlet from the top, facilitating complete drainage. Ensure that the installation is done as per the flow direction marked on the body.

Do not expose the trap to superheated conditions.

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

# ORDERING INFORMATION:

Refer to "HOW TO ORDER" page.





# MATERIAL:

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



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.





# PT30 Balanced Pressure Thermostatic Steam Traps

# 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 direction.

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 : 22 °F - Standard, 45 °F - Optional

SIZES : NPS 1/2, 3/4

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

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

Non IBR<sup>1</sup> / IBR

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	315 psig
TMA: Max. allowable temp.	576 °F
PMO: Max. operating pressure	315 psig
TMO: Max. operating temp.	480 °F
Cold hydro test pressure	630 psig

# 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.



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 inches

Size	Α	В	С	D	E	=
					#150	#300
1⁄2"	3.95	1.95	3.15	2.75	6.95	7.30
3⁄4"	3.95	1.95	3.15	2.75	7.10	7.50

# WEIGHTS: (approx.)

Size	SCR / SW	FLANGED	
		#150	#300
1⁄2"	4.2 lbs	7.0 lbs	7.7 lbs
3⁄4"	4.2 lbs	7.9 lbs	9.7 lbs

# AVAILABLE SPARES:

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

# **ORDERING INFORMATION:**

Refer to "HOW TO ORDER" page.





Side View





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.





# PT31 Balanced Pressure Thermostatic Steam Traps

# **DESCRIPTION:**

The PT31 is a balanced pressure, diaphragm controlled steam trap for draining instrument tracing lines and other similar applications.

This steam trap is designed to remove condensate at temperatures below the saturation temperature of steam. Subcooling available: 22 °F - Standard, 45 °F - Optional

SIZES: NPS 1/4, 3/8, 1/2, 3/4 (DN 8, 10, 15, 20)

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

# MATERIAL:

No.	PART	MATERIAL	QTY. (Nos.)
1.	BODY	ASTM A351 Gr. CF8*	01
2.	COVER	ASTM A351 Gr. CF8*	01
3.	CONTROLLER ASSY.	STAINLESS STEEL	01
4.	STRAINER SCREEN	AISI 304 (Perforated Sheet)	01
5.	GASKET	COPPER	01

\*CF8M on special request.

# DIMENSIONS - Nominal in inches

SIZE	ØD	L	Wt.
<sup>1</sup> / <sub>4</sub> ", <b>3</b> / <sub>8</sub> ", <sup>1</sup> / <sub>2</sub> ", <sup>3</sup> / <sub>4</sub> "	2.05	2.20	1 lbs

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	315 psig
TMA: Max. allowable temp.	576 °F
PMO: Max. operating pressure	315 psig
TMO: Max. operating temp.	480 °F
Cold hydro test pressure	630 psig

# INSTALLATION:

Preferably vertical with inlet from above.

# AVAILABLE SPARES:

Controller, Strainer Screen, Gasket.

# **ORDERING INFORMATION:**

Refer to "HOW TO ORDER" page.







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.





# PT33 Balanced Pressure Thermostatic Steam Traps

# 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 : 22° F - Standard, 11°F & 45° F - 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 IBR<sup>1</sup> / IBR

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	315 psig
TMA: Max. allowable temp.	576 °F
PMO: Max. operating pressure	315 psig
TMO: Max. operating temp.	480 °F
Cold hydro test pressure	630 psig

# 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.



-			
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 inches

Size	Α	В	С	C	)
				#150	#300
1⁄2"	3.35	4.92	2.9	6.38	6.70
3⁄4"	3.35	4.92	2.9	6.50	6.89

# WEIGHTS: (approx.)

Size	SCR / SW	FLANGED	
		#150	#300
1⁄2"	3.74 lbs	6.6 lbs	7.26 lbs
3⁄4"	3.74 lbs	7.48 lbs	9.24 lbs

# AVAILABLE SPARES:

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

# ORDERING INFORMATION:

Refer to "HOW TO ORDER" page.







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.





# PT31AV Balanced Pressure Thermostatic Air Vent

# DESCRIPTION:

The PT31AV air vent is designed to remove air and noncondensible gases from steam systems. The removal of these gases is important for achieving better start-up efficiency and heat transfer in normal running.

SIZES: NPS 1/4, 3/8, 1/2, 3/4

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

# MATERIAL:

No.	PART	MATERIAL	QTY. (Nos.)
1.	BODY	ASTM A351 Gr. CF8*	01
2.	COVER	ASTM A351 Gr. CF8*	01
3.	CONTROLLER ASSY.	STAINLESS STEEL	01
4.	STRAINER SCREEN	AISI 304 (Perforated Sheet)	01
5.	GASKET	COPPER	01

\*CF8M on special request.

# DIMENSIONS - Nominal in inches

SIZE	ØD	L	Wt.
<sup>1</sup> /4", <b>3/8</b> ", <sup>1</sup> /2", <sup>3</sup> /4"	2.05	2.20	1 lbs

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	315 psig
TMA: Max. allowable temp.	576 °F
PMO: Max. operating pressure	315 psig
TMO: Max. operating temp.	480 °F
Cold hydro test pressure	630 psig

# INSTALLATION:

Preferably vertical with inlet from below.

# AVAILABLE SPARES:

Controller, Strainer Screen, Gasket.

# ORDERING INFORMATION:

Refer to "HOW TO ORDER" page.

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.









# PA21 Float Air Eliminator

# DESCRIPTION:

PA21 air eliminator with all stainless steel internals. Best suited for automatic discharge heavy loads of air / gas.

# FEATURES:

The PA21 provides for high leverage which along with the use of an elliptical float makes it possible to open large orifices to provide adequate capacity for venting heavy loads.

SIZES: NPS 11/2

CONNECTIONS: Screwed (NPT/BSPT/BSP)

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	250 psig
TMA: Max. allowable temp.	428 °F
PMO : Max. operating pressure	250 psig
Cold hydro test pressure	498 psig

# INSTALLATION:

The air vent must be fitted vertically, with the inlet at the bottom and the outlet at the top. Correct vertical fitment is essential for movement of the float.

The air trap should be installed at all high points of the liquid system wherever air can collect. As an indication, the arrow on the nameplate should be pointing upwards.

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

Because of the way automatic air / gas vents operate they all dribble water / liquid when discharging air / gas. This is perfectly normal. Piping the discharge to a safe location is recommended.



# MAINTENANCE:

This product has to be removed from the line for maintenance. It is recommended that the air vent be opened periodically and the internals inspected for wear, damage, and dirt. All worn or damaged parts should be replaced with new spares. A new internal kit comprising of the valve pin, valve seat, bracket and lever should be replaced as a set.

# AIR DISCHARGE CAPACITY AT 60° F

INLET P	RESS.	psi	7	15	28.5	42.5	55	70	85	100	115	125	145	175	185	200	210	225	250
	ize	7/16	35	50	75	95	125	151	175	205	230	255							
scfm	fice s (inch)	3/8	20	30	45	60	75	90	105	125	140	155	175	210					
	Ö	1/4	10	15	25	300	40	50	55	65	75	80	90	110	115	125	135	140	155



No.	PART	MATERIAL	Qty. (Nos.)
1.	BODY	ASTM A106 Gr. B/A516 Gr. 60	01
2.	COVER	CAST IRON IS:210 - FG200	01
3.	GASKET	CAF / NON CAF	01
4.	FLOAT ASSLY.	AISI 304	01
5.	BRACKET	AISI 304	01
6.	LEVER	AISI 304	01
7.	VALVE PIN (Hardened)	13% CR STEEL	01
8.	VALVE SEAT (Hardened)	13% CR STEEL	01
9.	BOLT	HIGH TENSILE (10.9)	08
10.	PLUG	CARBON STEEL EN8	01
11.	LABEL	SS	01

Note: All internal screws are AISI 304

# **DIMENSIONS** - Nominal in inches

MODEL	SIZE	А	В	Wt.	
PA21-40	NPS 11/2	17	8.35	57.2 lb.	

# AVAILABLE SPARES:

Spare Kit: Valve Pin, Valve Seat, Bracket & Lever Assly., (Operating press. should be specified), Float Assly., Gasket.

ORDERING INFORMATION: Refer to "HOW TO ORDER" page. ØВ



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PA61 Float type Air Eliminator ½", ¾", 1"

# DESCRIPTION:

PA61 ball float air eliminator is designed to automatically discharge air/gas present in liquid systems. This means no liquid loss occurs as with manual venting.

# SALIENT FEATURES:

Improves circulation of pressurized liquids

SIZES: NPS 1/2, 3/4, 1

CONNECTIONS: Screwed (NPT / BSPT / BSP)

# LIMITING CONDITIONS:

PMA: Max allowable pressure	250 psig
TMA: Max. allowable temperature	425 °F
PMO: Max <sup>-</sup> operating pressure	150 psig
Cold hydro test pressure	450 psig

# AIR DISCHARGE CAPACITY AT 68°F

Diff. Pressure	Orifice	a afree
psig	size	scim
15		1.05
30		1.90
50		3.00
75	3/32"	4.05
100		5.25
125		6.40
150		7.60

# INSTALLATION:

Vertical installation with flow from bottom to top. The air eliminator should be installed at all high points of a liquid system wherever air can collect. It should be installed vertically above the pipe or equipment with inlet at the bottom. The arrow on the nameplate should be pointing vertically upwards.

# AVAILABLE SPARES:

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

# WEIGHT (approx):

7.25 lbs





All dimensions in inches

Μ	A٦	E	RI	A	L:

No.	PART	MATERIAL	QTY (Nos.)
1.	BODY	CAST IRON	01
2.	COVER	CAST IRON	01
3.	COVER GASKET	NON CAF	01
4.	FLOAT ASSY.	AISI 304	01
5.	LEVER ASSY.	AISI 304	01
6.	BRACKET ASSY.	AISI 304	01
7.	VALVE SEAT	13% Cr. STEEL	01
8.	VALVE	13% Cr. STEEL	01
9.	PLUG	AISI 304	01
10.	SEAT GASKET	COPPER	01
11.	PLUG GASKET	COPPER	01
12.	BOLT	HIGH TENSILE	04
13.	DRAIN PLUG	C.S.	01

# CAUTION:

DO NOT USE FOR HAZARDOUS / POISONOUS MEDIA

ORDERING INFORMATION: Refer to "HOW TO ORDER" page.

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.





# PAE10 Float type Air Eliminator DN15, DN20, DN25

# DESCRIPTION:

PAE10 ball float air eliminator is designed to automatically discharge air/gas present in the liquid system. This means no liquid loss occurs as with manual venting.

# SALIENT FEATURES:

Improves circulation of pressurized liquids.

SIZES: NPS 1/2, 3/4, 1

CONNECTIONS: Screwed (NPT / BSPT / BSP)

# LIMITING CONDITIONS:

PMA: Max allowable pressure	300 psig
TMA: Max. allowable temperature	425 °F
PMO: Max. operating pressure	150, 250 & 300 psig
Cold hydro test pressure	450 psig

# MATERIAL:

No.	PART	MATERIAL	QTY (Nos.)
1.	BODY	CAST IRON	01
2.	COVER	CAST IRON	01
3.	GASKET	NON CAF	01
4.	VALVE PIN	EDPM RUBBER	01
5.	FLOAT LEVER ASSY.	AISI 304	01
6.	BRACKET PIN	AISI 304	01
7.	BRACKET	AISI 304	01
8.	VALVE SEAT	AISI 304	01
9.	BOLTS	HIGH TENSILE	07
10.	PLUG	C.S.	01

# INSTALLATION:

Vertical installation with flow from bottom to top.

The air eliminator should be installed at all high points of a liquid system wherever air can collect. It should be installed vertically above the pipe or equipment with inlet at the bottom.

The arrow on the nameplate should be pointing vertically upwards.

# AIR DISCHARGE CAPACITY AT 1 psi (abs) & 60° F





WEIGHT (approx): 7.2 lbs.

# AVAILABLE SPARES:

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

# ORDERING INFORMATION Refer to "HOW TO ORDER" page.

INLE	t pre	ESS.	psi	7	15	28.5	42.5	55	5	70	100	115	125	145	150	170	215	250	285	300
		size 1)	1/16	.85	1.16	1.74	2.30	2.90	3.50	2.30	4.65	5.20	5.80	6.35	6.70					
scfn	n	inch	1/16	0.53	0.75	1.10	1.45	1.85	2.20	2.55	1.75	3.30	3.70	4.05	4.25	4.80	5.90	6.90		
		Orif Orif	1/16	0.35	0.50	0.75	1.00	1.25	1.50	1.80	2.05	2.30	2.55	2.80	2.95	3.35	4.10	4.80	5.40	5.65

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.





# PD11 Liquid Drain Traps

# DESCRIPTION:

Compressed air drain trap with inbuilt strainer, in full stainless steel construction suitable for draining light moisture loads from air lines.

# 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.

Specially designed disc makes the trap operate periodically, effectively discharging liquid immediately as it accumulates, even in operating conditions that are characterized by heavy oil contamination.

# SIZES: NPS 1/2, 3/4

CONNECTIONS: Screwed (NPT/BSPT/BSP) / SW

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	600 psig
TMA: Max. allowable temperature	800 °F
Maximum operating back pressure exceed 80% of the inlet pressure.	at the outlet should not
Minimum differential pressure	
for satisfactory operation	3.5 psi
Cold hydro test pressure	1200 psig

# INSTALLATION:

The trap will operate in any position but the preferred installation is in a horizontal position with the disc cap on the top.

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

In extremely dirty conditions, it may be necessary to deepen the bleed scratch or or make additional ones. The scratch should be over the area covered by and extending beyond the outer seat face.



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

# CAUTION:

DO NOT USE FOR HAZARDOUS / POISONOUS MEDIA



# MATERIAL:

No.	PART	MATERIAL	QTY.(Nos.)
1.	BODY	ASTM A743 Gr CA 40	01
2.	DISC CAP	(Cast Equiv. AISI 420)	01
3.	STRAINER CAP		01
4.	STRAINER	AISI 304 (Ø 0.8 Perf.)	01
5.	DISC	AISI 410	01

# **OPTIONAL FITTINGS**

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

WEIGHT - 2.2 lbs

# ORDERING INFORMATION

Refer to "HOW TO ORDER" page.



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# PD61 Liquid Drain Traps

# **DESCRIPTION:**

PD61 float traps are designed to drain moisture / liquids from compressed air/gas systems.

# FEATURES:

Modulating discharge.

USE: Compressed air and non-corrosive gas compatible with the construction.

SIZES : NPS 1/2, 3/4, 1

CONNECTIONS: Screwed (NPT / BSPT / BSP)

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	250 psig
TMA: Max. allowable temperature	425 ⁰F
PMO: Max. operating pressure	200 psig
TMO: Max. operating temperature	425 °F
Cold hydro test pressure	450 psig

Max. differential pressure range:

PD61 - 65 : 65 psi PD61 - 145 : 145 psi PD61 - 200 : 200 psi

# CAUTION:

DO NOT USE FOR HAZARDOUS / POISONOUS MEDIA



# INSTALLATION:

Standard horizontal installation with flow from right to left PD61.

UPON REQUEST:

- Horizontal installation with flow from left to right PD61 (L-R)
- Vertical installation with flow from top to bottom PD61 (V).

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.

It is recommended that an equalizer line be fitted as shown in the installation manual for this product.

Model	TRAP		DIFFERENTIAL PRESSURE (psi)															
	SIZE	7	15	21.5	28.5	42.5	57	65	70	85	100	115	128	145	157	170	185	200
PD61-65	1⁄2", 3⁄4"	570	800	915	1000	1145	1300	1420										
PD61-65	1"	1515	1980	2130	2500	2860	3125	3485										
PD61-145	1/2", 3/4"	385	430	506	540	660	770	805	825	860	1000	1110	1145	1200				
PD61-145	1"	615	880	1045	1175	1430	1615	1695	1805	1925	2025	2155	2245	2345				
PD61-200	1⁄2", 3⁄4"	363	395	430	475	550	627	660	705	770	850	935	1000	1078	1155	1230	1300	1375
PD61-200	1"	340	450	505	625	790	860	900	945	1035	1090	1145	1230	1285	1320	1355	1395	1450

# DISCHARGE CAPACITY IN lbs/hr (Cold water)



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

\*Only for 1" size (Not shown in view)

# DIMENSIONS - Nominal in inches

SIZE	А	В	С	D	Wt.
1⁄2", 3⁄4"	5.12	5.75	2.45	4.33	7.25 lbs
1"	5.71	6.38	2.32	4.33	9.45 lbs

# AVAILABLE SPARES:

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

# ORDERING INFORMATION: Refer to "HOW TO ORDER" page.

PD61 Liquid Drain Traps



PD61(V)





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.





# PD61SS Liquid Drain Traps

# DESCRIPTION:

PD61SS float traps are designed to drain moisture / liquids from compressed air / gas systems.

# FEATURES:

Modulating discharge.

USE: Compressed air and non-corrosive gas compatible with the construction.

SIZES: NPS 1/2, 3/4

CONNECTIONS: Screwed (NPT / BSPT / BSP) Socket weld / Flanged\* \*End connection flanges of Stainless steel are welded on.

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	250 psig
TMA: Max. allowable temperature	425 °F
PMO: Max <sup>-</sup> operating pressure	200 psig
TMO: Max. operating temperature	425 °F
Cold hydro test pressure	450 psig

# CAUTION:

DO NOT USE FOR HAZARDOUS / POISONOUS MEDIA



# **INSTALLATION:**

Standard horizontal installation with flow from right to left PD61SS.

### UPON REQUEST:

- Horizontal installation with flow from left to right
   PD61SS
- (L-R).
- Vertical installation with flow from top to bottom PD61SS (V).

Max. differential pressure range: PD61SS-65 : 65 psi

PD61SS-145: 145 psi PD61SS-200: 200 psi

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.

It is recommended that an equaliser line be fitted as shown in the installation manual for this product.

# TRAP DISCHARGE CAPACITY IN lbs/hr (Cold water)

MODEL	TRAP		DIFFERENTIAL PRESSURE (psi)															
	SIZE	7	15	21.5	28.5	42.5	57	65	70	85	100	115	128	145	157	170	185	200
PD61SS-65	<sup>1</sup> / <sub>2</sub> ", <sup>3</sup> / <sub>4</sub> "	570	800	915	1000	1145	1300	1420										
PD61SS-145	<sup>1</sup> / <sub>2</sub> ", <sup>3</sup> / <sub>4</sub> "	385	430	506	540	660	770	805	825	860	1000	1110	1145	1200				
PD61SS-200	<sup>1</sup> / <sub>2</sub> ", <sup>3</sup> / <sub>4</sub> "	363	395	430	475	550	627	660	705	770	850	935	1000	1078	1155	1230	1300	1375



-			
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.	PLUG	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

\*Optional

# **DIMENSIONS** - Nominal in inches

Size	А	В	С	D	Ę			
					#150	#300		
<sup>1</sup> /2 <sup>"</sup> , <sup>3</sup> /4 <sup>"</sup>	5.0	4.72	2.36	5.71	7.87	8.27		

# WEIGHTS: (approx.)

		,						
Size	SCR / SW	FLANGED						
		#150	#300					
1⁄2"	7.25 lbs	10 lbs	10.75 lbs					
3⁄4"	7.25 lbs	11 lbs	12.75 lbs					

# **AVAILABLE SPARES:**

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

**ORDERING INFORMATION:** Refer to "HOW TO ORDER" page.



(5)

(9)

ØВ

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(10)



(11)

6





# PD62 Liquid Drain Traps

# DESCRIPTION:

Pd62 float traps are designed to drain moisture / liquids from compressed air / gas systems.

# FEATURES:

Modulating discharge.

USE: Compressed air and non-corrosive gas compatible with the construction.

SIZES : NPS 1/2, 3/4, 1

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

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

# LIMITING CONDITIONS:

PMA: Maximum allowable pressure	250 psig
TMA: Maximum allowable temp.	425 ºF
PMO: Maximum operating pressure	200 psig
TMO: Maximum operating temp.	425 ºF
Cold hydro test pressure	450 psig

# CAUTION:

DO NOT USE FOR HAZARDOUS / POISONOUS MEDIA

### EQUALIZER PIPE ½" size



# INSTALLATION:

Horizontal installation with flow from left to right.

The trap should be installed below the drain point of the equipment with the flow direction as indicated by the arrow on the trap.

It is recommended that an equalizer line be fitted as shown in the installation manual for this product.

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

Max. differential pressure range:

PD62-65 : 65 psi PD62-145 : 145 psi PD62-200 : 200 psi

Model	TRAP		DIFFERENTIAL PRESSURE (psi)															
	SIZE	7	15	21.5	28.5	42.5	57	65	70	85	100	115	128	145	157	170	185	200
PD62-65	1/2", 3/4"	570	800	915	1000	1145	1300	1420										
PD62-65	1"	2400	2700	3000	3300	3895	4490	4800										
PD62-145	1/2", 3/4"	385	430	506	540	660	770	805	825	860	1000	1110	1145	1200				
PD62-145	1"	1728	1870	2035	2180	2485	2795	2938	3090	3390	3685	3993	4290	4588				
PD62-200	1/2", 3/4"	363	395	430	475	550	627	660	705	770	850	935	1000	1078	1155	1230	1300	1375
PD62-200	1"	1220	1300	1375	1465	1617	1770	1850	1935	2090	2245	2400	2565	2718	2870	3050	3200	3366

# DISCHARGE CAPACITY IN lbs/hr (Cold water)



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.	BOLT	ASTM 193 Gr. B7	04
7.	DRAIN PLUG	CARBON STEEL	01
8.	GASKET	COPPER	01
9.	BRACKET ASSY.	AISI 304	01

# PD62 Liquid Drain Traps







# **DIMENSIONS** - Nominal in inches

SIZE	А	В	С	D	E	F	(	G
							#150	#300
1⁄2"	3.95	5.50	4.10	2.05	6.50	7.70	6.90	7.30
3⁄4"	3.95	5.50	4.10	2.05	6.50	7.70	7.10	7.50
1"	4.75	7.65	7.65	4.35	8.65	9.85	8.25	8.66

# WEIGHTS - approx. in lbs

SIZE	SCREWED/	FLANGE	D ENDS
	SW ENDS	#150	#300
1⁄2"	9.9	12.0	13.0
3⁄4"	9.9	12.8	14.3
1"	19.8	28.5	31.0

### AVAILABLE SPARES: Valve Seat, Ball Float & Lever Assy., Gaskets.

ORDERING INFORMATION: Refer to "HOW TO ORDER" page.

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.





# PD63 Liquid Drain Traps

# **DESCRIPTION:**

PD63 float traps are designed to drain moisture / liquids from compressed air / gas systems.

# FEATURES:

The "H" pattern offers users multiple fitment options. Modulating discharge.

USE: Compressed air and non-corrosive gas compatible with the construction

SIZES: NPS 34, 1, 114

CONNECTIONS: Screwed (NPT / BSPT / BSP)

# LIMITING CONDITIONS:

PMA: Max allowable pressure	250 psig
TMA: Max. allowable temp.	425 °F
PMO: Max <sup>-</sup> operating pressure	150 psig
TMO: Max. operating temp.	425 °F
Cold hydro test pressure	450 psig



# 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 moisture removal, the trap should be fitted below the drain point of the system being drained.

It is recommended that an equalizer line be fitted as shown in the installation manual for this product

MODEL	TRAP		DIFFERENTIAL PRESSURE (psi)																
	SIZE	1⁄4	1/2	1	2	5	10	15	20	25	30	40	50	60	75	90	100	125	150
PD63-15	<sup>3</sup> ⁄4",1"	475	605	825	1110	1320	1780	2025											
PD63-15	<b>1</b> ¼"	530	705	945	1265	2310	3420	3695											
PD63-30	<sup>3</sup> ⁄4",1"	330	405	570	770	1110	1285	1520	1750	1890	2025								
PD63-30	11⁄4"	475	605	825	1080	1320	1780	2025	2275	2880	3320								
PD63-75	<sup>3</sup> ⁄4",1"	295	370	515	625	780	890	1010	1080	1200	1255	1465	1650	1815	2025				
PD63-75	11⁄4"	365	460	625	835	1245	1605	1780	1925	1990	2055	2400	2705	2815	3070				
PD63-150	<sup>3</sup> ⁄4",1"	275	350	430	475	560	615	660	735	805	880	1045	1245	1355	1560	1715	1850	2015	2255
PD63-150	11/4"	330	405	570	770	1110	1285	1520	1750	1890	2025	2330	2595	2675	2925	3035	3290	3475	3960

# TRAP DISCHARGE CAPACITY IN lbs/hr (Cold water)



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.	PLUG	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



# CAUTION:

DO NOT USE FOR HAZARDOUS / POISONOUS MEDIA

WEIGHT (approx.) 3/4", 1" - 12.2 lbs 11/4" - 13.2 lbs

AVAILABLE SPARES: Valve Seat, Ball Float & Lever Assy., Gaskets.

ORDERING INFORMATION: Refer to "HOW TO ORDER" page.

**DIMENSIONS - Nominal in inches** 

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.





PD65 Liquid Drain Traps (Cast Iron)

# DESCRIPTION:

PD65 float traps are designed to drain moisture / liquids from compressed air / gas systems.

# FEATURES:

Modulating discharge.

USE: Compressed air and non-corrosive gas compatible with the construction.

SIZES : NPS 1

CONNECTIONS: Screwed (NPT / BSPT / BSP)

# LIMITING CONDITIONS:

PMA: Maximum allowable pressure	250 psig
TMA: Maximum allowable temp.	425 °F
PMO: Maximum operating pressure	200 psig
TMO: Maximum operating temp.	425 °F
Cold hydro test pressure	450 psig

# CAUTION:

DO NOT USE FOR HAZARDOUS / POISONOUS MEDIA

# EQUALIZER PIPE ½" size

# **INSTALLATION:**

Horizontal installation with flow from left to right.

The trap should be installed below the drain point of the equipment with the flow direction as indicated by the arrow on the trap.

It is recommended that an equalizer line be fitted as shown in the installation manual for this product.

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

Max. differential pressure range:

PD65-65 : 65 psi PD65-145 : 145 psi PD65-200 : 200 psi

Model	TRAP		DIFFERENTIAL PRESSURE (psi)															
	SIZE	7	15	21.5	28.5	42.5	57	65	70	85	100	115	128	145	157	170	185	200
PD65-65	1"	2400	2700	3000	3300	3895	4490	4800										
PD65-145	1"	1728	1870	2035	2180	2485	2795	2938	3090	3390	3685	3993	4290	4588				
PD65-200	1"	1220	1300	1375	1465	1617	1770	1850	1935	2090	2245	2400	2565	2718	2870	3050	3200	3366

# DISCHARGE CAPACITY IN lbs/hr (Cold water)



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.	BOLT	ASTM 193 Gr. B7	04
7.	DRAIN PLUG	CARBON STEEL	01
8.	GASKET	COPPER	01
9.	BRACKET ASSY.	AISI 304	01

# **DIMENSIONS** - Nominal in inches

SIZE	А	В	С	D	Е	Wt.	
1"	4.75	7.40	6.90	4.15	8.45	15.4 lbs	

**AVAILABLE SPARES:** 

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

**ORDERING INFORMATION:** 

Refer to "HOW TO ORDER" page.

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.



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**PD65** 

Liquid Drain Traps (Cast Iron)









# BDV Blow-down Valve for Air Traps

# DESCRIPTION:

Blow-down valve in complete stainless steel construction. Suitable for blowing out unwanted loose material collected in the strainer element. Also used to blow down the system pressure from the device during shutdown.

# FEATURES:

Stainless steel construction ensures excellent mechanical & corrosion resistant properties. Specially designed screw mechanism ensures that the operator is clear of the blow down stream.

Tight shut off when in closed condition.

Available in various sizes.

Easy to operate.

Maintenance free.

SIZES: NPS 1/2, 3/4, 1

CONNECTION : Screwed (BSP/BSPT/NPT)

Non IBR<sup>1</sup>/IBR approved.

# LIMITING CONDITIONS :

PMA: Max. allowable pressure	600 psig
TMA: Max. allowable temp.	800 °F
Cold hydro test pressure	1200 psig

# **INSTALLATION:**

Blow-downs are screwed on to the trap body at the drain point or where the strainer element is fitted. The direction of the outlet of blow down should be pointing away from the working area.

# **IMPORTANT:**

Ensure that only a wrench is used for operating the blow-down valve. This will safeguard the operator at work.

# NO SPARES AVAILABLE.

<sup>1</sup>Indian Boiler Regulations





# MATERIAL:

S	Sr. Io.	PART	MATERIAL	QTY. (Nos)
	1.	BODY	AISI 304	01
	2.	SCREW	AISI 304	01
	3.	BALL	AISI 420	01

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.





# Isotub for Thermodynamic Steam Traps

# **DESCRIPTION:**

Isotub/insulating cover in stainless steel construction. Isotubs are used only on thermodynamic steam traps.

Best suited for outdoor applications susceptible to low ambient temperature, wind, rain etc. Reduces no-load cyclic operation & steam loss.

# FEATURES:

Stainless steel construction ensures excellent corrosion resistant properties, which are needed for outdoor applications.

Maintenance free.

Easy installation, push-on fitment.

# SIZES:

Isotubs suitable for all models & sizes of thermodynamic steam traps are available.

# **INSTALLATION:**

Isotubs are slide fitted onto the top chamber of the trap called the disc cap, thus avoiding direct contact of wind, rain, etc.

Ensure that the trap is fitted with the disc cap on the top.





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.





# PU11/11Y Universal Connector for Traps

# DESCRIPTION:

Universal connector (with and without strainer) for use with steam traps. Facilitates quick replacement of traps reducing maintenance costs.

# FEATURES:

The universal connector, once installed, remains in the pipeline permanently. The trap itself is attached to the connector by two bolts, enabling quick installation and replacement. The connector design facilitates vertical / horizontal installation or any angle in-between regardless of piping configuration.

SIZES: NPS 1/2, 3/4

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

Non IBR<sup>1</sup> / IBR approved

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	600 psig
TMA: Max. allowable temp.	800 °F
Cold hydro test pressure	1200 psig

# **INSTALLATION:**

The connector can be installed in horizontal or vertical lines. The connector face must be in a vertical plane. The trap should be fitted to the connector with its cap uppermost. Full-port isolating valves should be installed upstream and downstream of the connector

# MAINTENANCE:

Remove the cap for periodic cleaning of strainer.

# **IMPORTANT:**

While installing connector to pipe, ensure that the connector face is aligned vertically.

# AVAILABLE SPARES:

Strainer Screen (Packet of 5)

ORDERING INFORMATION: Refer to "HOW TO ORDER" page.











# Dimensions in inches

# MATERIAL

No.	PART	MATERIAL	QTY. (Nos.)
1.	CONNECTOR	ASTM A351 Gr. CF8	01
2.	STRAINER SCREEN	AISI 304 (Perforated Sheet)	01
3.	STRAINER CAP	ASTM A743 Gr. CA40 (Cast Equiv. AISI 420)	01

# WEIGHTS - approx. in lbs

MODEL	SCREWED/SW ENDS
PU11	1.21
PU11Y	2.25

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 PDF10 diffuser, in full stainless steel construction, is used at the outlet of steam / air trap discharging to atmosphere. The diffusor reduces noise levels, velocity of condensate flow / splashing induced erosion.

# FEATURES:

- Complete stainless construction.
- Compact design.
- Long life.

SIZES: NPS 1/2, 3/4

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

# LIMITING CONDITIONS:

Suitable for traps rated upto PN63.

# INSTALLATION:

Installed on the downstream of the trap with outlet pointing downwards. Ensure that discharge is towards the ground or a safe enclosed space.

# MATERIAL:

NO.	PART	MATERIAL	QTY. (Nos.)
1.	END CONNECTOR	AISI 304	01
2.	BODY	AISI 304	01
3.	BAFFLE	AISI 304	02
4.	END PLATE	AISI 304	01
5.	STEEL WOOL	AISI 304	

# **ORDERING INFORMATION:**

	Series	Size	End Connection
1⁄2"	PDF-10	050	NO (NPT) or SO (Socket Weld)
3⁄4"	PDF-10	075	NO (NPT) or SO (Socket Weld)





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# **DIMENSIONS** - Nominal in inches

SIZE	А	В	С	Wt. (lbs)
1⁄2"	13.38	25.6	12.6	0.48
3⁄4"	13.38	27.6	14.17	0.55

# PENNANT

# PUN10 Pipe Union

# DESCRIPTION:

The PUN10 pipe union makes use of a spiral-wound gasket to provide an excellent leak-tight joint.

Typical applications include joining steam / liquid / gas pipes at various junctions like inserting metering & regulatory devices, process equipment, etc. Also used for connecting pipes of different sizes together.

# FEATURES:

- Easy to install as gasket is held firmly in place.
- Low maintenance costs only gasket to be replaced whenever union is dismantled for maintenance.
- Gasket sealing eliminates the possibility of metal seal getting damaged as normally occurs in a conventional union.

# USE:

In all liquid / gas application, saturated and superheated steam.

SIZES: NPS ½", ¾", 1", 1¼", 1½", 2", 2½", 3"

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

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	3045 psi @ 100 ºF
PMO: Max. operating pressure	2145 psi @ 698 ºF
Cold hydro test pressure	4560 psil

# ORDERING INFORMATION:

Refer to "HOW TO ORDER" page.







# MATERIAL:

NO.	PART	MATERIAL	QTY. (Nos.)
1.	PLUG	ASTM A105*	01
2.	SOCKET	ASTM A105*	01
3.	NUT	ASTM A105*	01
4.	RETAINER	AISI 316	01
5.	GASKET	Spiral wound SS304 with graphite filter	01

\* Other material on request.

# **DIMENSIONS** - Nominal in inches

SIZE	А	В	Wt. (lbs.)
1⁄2"	2	1.80	0.61
3⁄4"	2.20	2.20	0.96
1"	2.40	65	1.20
1¼"	2.80	2.56	2.0
1½	3.0	3.38	2.48
2"	3.38	4.0	3.70
21⁄2	4.0	4.76	1.20
3"	4.30	5.30	6.40

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# PVB10 Vacuum Breaker

# **DESCRIPTION:**

Vacuum breaker in complete stainless steel construction. It is best suited on steam inlets to heat exchangers, jacketed kettles, liquid process lines, chilled water lines, boiler feed water lines and air coils, to admit air whenever vacuum condition is developed in the system.

# FEATURES:

Works like a check valve and allows air to enter the steam or liquid system, however, steam or liquid escape is shut off. PVB10 is designed to allow air into condensing steam or liquid systems where creation of a vacuum would inhibit liquid drainage and decrease system performance and efficiency.

SIZES: System connection: NPS <sup>1</sup>/<sub>2</sub> Air inlet connection: NPS <sup>1</sup>/<sub>4</sub>, <sup>3</sup>/<sub>8</sub>, <sup>1</sup>/<sub>2</sub>

CONNECTIONS: Screwed (NPT/BSPT/BSP)

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	300 psig
TMA: Max. allowable temp.	850 °F
Minimum vacuum reqd. for opening	0.07 psig (2" of H <sub>2</sub> O)
Cold hydro test pressure	600 psig

# **INSTALLATION:**

The vacuum breaker should be installed vertically with the cap at the top & at the highest point of the system. An isolation valve needs to be fitted for facilitating servicing.

MAINTENANCE: After the vacuum breaker is isolated from the system, unscrew the top cap & examine for any wear/tear & debris on ball or seat which could cause leakage. Clean and refit. With the exception of possible cleaning, this device is maintenance-free. Vacuum breakers are not repairable on-line.

# MATERIAL

No.	PART	MATERIAL	QTY. (Nos.)
1	BODY	AISI 304	1
2	CAP	AISI 304	1
3	BALL	AISI 304	1
4	GASKET	NON CAF	1

# **ORDERING INFORMATION:**

	Series	Size	End Connection
1⁄2"X1⁄4"	PVB-10	025-050	NO
<sup>3</sup> ⁄4"X <sup>3</sup> ⁄4"	PVB-10	038-050	NO
<sup>1</sup> / <sub>2</sub> "X <sup>1</sup> / <sub>2</sub> "	PVB-10	050-050	NO

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.



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# **DIMENSIONS** - Nominal in inches

SIZE	Α	В	С	Wt.
1⁄2" X 1⁄4"	2.16	1.45	1.26	0.825 lbs
<sup>1</sup> / <sub>2</sub> " X <sup>3</sup> /8"	2.36	1.45	1.26	0.888 lbs
1⁄2" X 1⁄2"	2.75	1.93	1.26	1.210 lbs

# AVAILABLE SPARES:

No spares available





# PG71 Sight Glass (Sight Check)

# DESCRIPTION:

PG71 sight glasses are designed to check the flow of cooling water, lubricants, air, steam, etc. in a pipe line. They may also be used to check the functioning of steam traps. This simple device is also an effective back-flow preventer.

Suitable for horizontal installation.

USE: Water, oil, steam, air and other non-corrosive media.

SIZES: NPS 1/2, 3/4, 1, 11/2, 2

CONNECTIONS: Screwed (NPT/BSPT/BSP)

# LIMITING CONDITIONS: (for steam)

Maximum allowable pressure	228 psig
Maximum allowable temperature	400 °F
Cold hydro test pressure	456 psig

# INSTALLATION:

The sight glass should be installed in a horizontal pipe line with the glass at the top. Enough space should be left open above the glass to facilitate checking of the flow/operation. In cases where the device is fitted to check the operation of a steam trap, it should be fitted at a distance of 5 to 6 feet (approx. 2 m) downstream of the trap.

# MATERIAL:

No.	PART	MATERIAL	QTY. (Nos)
1.	BODY	CAST IRON	01
2.	COVER	CAST IRON	01
3.	GLASS	Toughened Borosilicate	01
4.	BALL	PTFE	01
5.	GASKETS	CAF / Non CAF	02





### **DIMENSIONS** - Nominal in inches

SIZE	Α	В	С	D	Wt.
1⁄2"	3.3	2.8	3.0	3.62	3.1 lbs
3⁄4"	3.3	2.8	3.0	3.62	3.1 lbs
1"	3.3	3.0	3.0	4.0	3.5 lbs
1½", 2"	5.0	3.5	3.0	5.0	9.25 lbs

# DISCHARGE CAPACITY IN lbs/hr (For hot condensate)

Model/Size		DIFFERENTIAL PRESSURE (psi)															
11100001/0120	3.5	15	28.5	42.5	57	70	85	100	115	128	145	157	170	185	200	213	228
<b>PG71</b> -½"	2320	2618	3025	3430	3828	4235	4620	5038	5445	5840	6248	6645	7040	7460	7855	8260	8660
<b>PG71</b> -¾"	3190	3575	4090	4620	5140	5655	6160	6700	7215	7733	8260	8780	9295	9810	10340	10855	11375
PG71-1"	3345	3830	4445	5105	5740	6350	7020	7655	8295	8930	9580	10240	10855	11495	12135	12770	13410
<b>PG71</b> -1½", 2"	5830	6710	7975	9305	10705	11680	12970	13880	15665	17270	18040	18700	19120	19490	19900	22220	22615

# AVAILABLE SPARES:

Set of Glass, Ball, Gaskets.

### ORDERING INFORMATION: Refer to "HOW TO ORDER" page.

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# PS11 'Y'-Strainer

# DESCRIPTION:

Strainers for steam, air, oil or water piping, protect equipment, steam traps, valves etc. from dirt, rust or scale, and debris, in the pipeline.

# FEATURES:

Simple yet sound construction ensures long service life. A stainless steel strainer screen with a large surface area ensures minimum pressure drop and requires less frequent cleaning. Designed for easy in-line cleaning and maintenance.

# LIMITING CONDITIONS:

PMA: Max. allowable pressure	570 psig				
TMA: Max. allowable temp.	645 °F				
PMA / TMA for cast iron construction	250 psig / 428ºF				
Cold hydro test pressure twice the Max. allowable pressure					

# SIZES: NPS ½, ¾, 1, 1½, 2

CONNECTIONS: Screwed (NPT, BSPT, BSP) / Socket Weld\* (\* Not Available In CI)

Non IBR<sup>1</sup> / IBR

IBR - Available only in CS / SS construction

# MATERIAL:

No.	PART	MATERIAL	QTY. (Nos.)
1.	Body	CS / SS / CI	01
2.	Strainer Cap	CS/SS	01
3.	Strainer Screen	AISI 304 (40 mesh)	01
4.	Gasket	CAF / Non CAF	01

# **DIMENSIONS** - Nominal in inches

MODEL	SIZE	А	В	С	Wt.
PS11	1⁄2"	2.95	2.75	3.58	1.80 lbs
	3⁄4"	2.75	2.75	3.58	1.69 lbs
	1"	3.75	3.45	4.49	3.52 lbs
	1.1⁄2"	7.48	6.18	7.95	15.0 lbs
	2"	7.48	6.18	7.95	13.2 lbs

# AVAILABLE SPARES:

Strainer Screen (Packet of 5)

### ORDERING INFORMATION: Refer to "HOW TO ORDER" page.

### <sup>1</sup>Indian Boiler Regulations





# **INSTALLATION:**

For horizontal installations, the strainer should be installed with the screen in the horizontal plane or below the centre-line of the pipe. Ensure accessibility of the strainer cap for cleaning.

# MAINTENANCE:

This product can be maintained without disturbing the piping connections. Complete isolation of the strainer from both supply and return lines is required before any servicing is carried out.

The strainer should be disassembled periodically for cleaning the screen.

# **IMPORTANT:**

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

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.





# PC11 Single Disc Non-Slam Check Valves

# **DESCRIPTION:**

Single Disc Non-Slam Check Valves for general purpose applications. These valves are lighter and more compact than conventional swing check valves. The self-centering design facilitates easy installation between a wide variety of flange types.

# FEATURES:

- Can be mounted in any plane/ direction
- Operate under extremely low opening pressures
- Tested to API 598

SIZES : NPS ½ ~ 4

PRESSURE RATING: #300

SUITABILITY: For flanges as per ANSI #150/300

Non IBR<sup>1</sup> / IBR

**INSTALLATION:** Between two pipe flanges using standard gasket on either side.

# MATERIAL:

No.	PART	MATERIAL	QTY. (Nos)
1.	BODY	ASTM A351 Gr. CF8M	01
2.	DISC	AISI 316	01
3.	SPRING	AISI 316	01
4.	SPRING HOLDER	AISI 316	01

### SEATING

Standard : Metal seated

Optional : EPDM / Nitrile / Silicon / Viton

### <sup>1</sup>Indian Boiler Regulations







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# **DIMENSIONS** - Nominal in inches

SIZE	А	В	С	D	Wt.
1⁄2"	2.36	0.6	1.5	0.67	0.33 lbs
3⁄4"	2.76	0.79	1.85	0.79	0.44 lbs
1"	3.19	0.98	2.16	0.91	0.66 lbs
1.¼"	3.54	1.26	2.68	1.10	1.27 lbs
1.1⁄2"	3.98	1.57	2.99	1.26	1.54 lbs
2"	4.53	1.97	3.66	1.57	2.53 lbs
2.1⁄2"	5.59	2.56	4.29	1.81	3.74 lbs
3"	6.06	3.15	50.4	1.97	4.84 lbs
4"	7.24	3.94	5.83	2.36	6.82 lbs

# CAUTION:

METAL SEATING NOT SUITABLE FOR HAZARDOUS / POISONOUS MEDIA

### ORDERING INFORMATION: Refer to "HOW TO ORDER" page.

Feb. 2010


## Fabricated Strainer

## **DESCRIPTION:**

Fabricated strainers suitable for various pressure temperature conditions. Fabricated from high class pipes, flanges and screens.

SIZES: NPS 1/2 ~ 12

## **CONNECTIONS** :

Flanged to ANSI 150, 300 & 600. BS & DIN flanges available on request. Non IBR<sup>1</sup> / IBR approved.

## LIMITI\NG CONDITIONS:

Maximum working pressure & temperature as per flange ratings.

## FILTERING ELEMENT:

40 mesh standard. Other mesh sizes on special request.

## 

## **DIMENSIONS** - Nominal in inches

SIZE	А	В	С	D
1⁄2"	11.5	5	5.1	3
3⁄4"	11.5	5	5.1	3
1"	11.5	5	5.1	3
1.1⁄2"	11.5	5	5.1	3
2"	11.8	6.3	7.0	3
2.1⁄2"	14.5	6.9	7.0	4
3"	14.5	7	7.2	4
4"	19.7	10.6	11.8	6
5"	21.7	11.8	12.2	8
6"	24.5	266	11.7	10
8"	26.5	10.5	18.2	12
10"	27.6	15.7	19.7	14
12"	32.5	22	30	18

## MATERIAL:

No.	PART	MATERIAL	QTY. (Nos.)
1.	BODY		
2.	INLET	FDW Class (C)	1
3.	OUTLET	ERW-Class C	
4.	SCREEN	SS	1
5.	BLANK FLANGE	I.S. 2002 Fl. / I.S. 226	1
6.	DRAIN PLUG	¾" BSPT / CS	1
7.	GASKET	CAF / Non CAF	1

<sup>1</sup>Indian Boiler Regulations

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## Fabricated Separator

## DESCRIPTION:

Moisture separators suitable for various pressure temperature conditions. Fabricated from high class pipes, flanges and baffle plates.

SIZES: NPS 1/2 ~ 12

## CONNECTIONS :

Flanged to ANSI 150, 300 & 600. BS & DIN flanges available on request. Non IBR<sup>1</sup> / IBR approved.

## LIMITING CONDITIONS:

Maximum working pressure & temperature as per flange ratings.



### MATERIAL:

No.	PART	MATERIAL	QTY. (Nos.)
1.	DRAIN		
2.	BODY	ASTM A106 Gr. B /	1
3.	INTLET	ERW-Class 'C'	'
4.	OUTLET		
5.	BAFFLE PLATE	I.S. 2002 Fl. / I.S. 226	1

### **DIMENSIONS** - Nominal in inches

SIZE	A	В	С	D	E
1⁄2"	8.5	8	4	3	0.6
3⁄4"	9.5	8	5.6	3	0.6
1"	12.5	10.9	5.9	4	1
1.1⁄2"	14.5	11.6	5.9	4	1
2"	18.5	14	8.7	6	1
2.1⁄2"	18.5	15.2	8.8	6	1
3"	18.5	18.8	9.7	6	1
4"	22.5	20.3	11.7	7.8	1
5"	26.5	24.4	13.6	7.8	1
6"	29.5	30.5	13.7	11.8	1
8"	34.25	33.1	20.3	15.7	1
10"	35.4	36	24.1	15.7	1
12"	36.5	37.8	26	17.7	1

<sup>1</sup>Indian Boiler Regulations

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## PRK-15 Replacement Module For Spirax Sarco Float & Thermostatic Steam Trap

## **DESCRIPTION:**

Completely assembled module can renew the old trap easily & in a short span of time without disturbing the trap connections.

The module consists of the trap cover with complete float mechanism and air vent fitted in ready to install condition. Cover gasket & name plate are also included which may be needed at the point of installation.

## **INSTALLATION:**

- 1. Check the trap nameplate to ensure that the correct replacement module is being installed.
- 2. Isolate the trap from both upstream & downstream pressure. Allow trap to cool.
- 3. Remove the cover by unscrewing the bolts from the body.
- 4. Remove the old gasket & ensure that gasket surface is clean.
- 5. Clean the body thoroughly & check for its soundness.
- 6. Fit the new assembled module & cover gasket on to the trap body. Ensure that the float mechanism on the cover is at the lower end & air vent assembly at the top end.
- 7. Tighten the cover bolts after placing the name plate. Tighten the bolts in a cross pattern to a torque of 11-14 ft.lb. (15 - 19 Nm)
- 8. Open the isolating valves gradually to put the trap back into the service.

## LIMITING CONDITIONS:

PMA: Max. allowable pressure	125 psig
PMA: Max. allowable pressure*	200 psig
TMA: Max. allowable temp.	450 °F
TMO: Max. operating temp.	450°F
PMO: Max. operating pressure:	
FT-15, FTI-15	15 psig
FT-30, FTI-30	30 psig
FT-75, FTI-75	75 psig
FT-125, FTI-125	125 psig
FTI-200	200 psig



SPIRAX Model		Ordering Code
<sup>3</sup> ⁄4" & 1"	FT-15	PRKFT 015 100
1.1⁄4"	FT-15	PRKFT 015 125
<sup>3</sup> ⁄4" & 1"	FT-30	PRKFT 030 100
1.1⁄4"	FT-30	PRKFT 030 125
<sup>3</sup> ⁄4" & 1"	FT-75	PRKFT 075 100
<sup>3</sup> ⁄4" & 1"	FT-125	PRKFT 125 100
1⁄2",3⁄4",1"	FTI-15*	PRKFI 015 100
<sup>1</sup> ⁄2", <sup>3</sup> ⁄4",1"	FTI-30*	PRKFI 030 100
<sup>1</sup> ⁄2", <sup>3</sup> ⁄4",1"	FTI-75*	PRKFI 075 100
<sup>1</sup> ⁄ <sub>2</sub> ", <sup>3</sup> ⁄ <sub>4</sub> ",1"	FTI-125*	PRKFI 125 100
1⁄2",3⁄4",1"	FTI-200*	PRKFI 200 100

## REPAIR KIT CONSISTS OF

PART	DESCRIPTION
А	Cover with whole mechanism mounted
В	Gasket
С	Bolts (6 Nos.)
D	Name plate

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.





## PRK-44 Replacement Module For Mepco Float & Thermostatic Steam Trap

## **DESCRIPTION:**

Completely assembled module can renew the old trap easily & in a short span of time without disturbing the trap connections.

The module consists of the trap cover with complete float mechanism and air vent fitted in ready to install condition. Cover gasket & name plate are also included.

## **INSTALLATION:**

- 1. Check the trap nameplate to ensure that the correct replacement module is being installed.
- 2. Isolate the trap from both upstream & downstream pressure. Allow trap to cool.
- 3. Remove the cover by unscrewing the bolts from the body.
- 4. Remove the old gasket & ensure that gasket surface is clean.
- 5. Clean the body thoroughly & check for its soundness.
- 6. Fit the new assembled module & cover gasket on to the trap body. Ensure that the float mechanism on the cover is at the lower end & air vent assembly at the top end.
- 7. Tighten the cover bolts after placing the name plate. Tighten the bolts in a cross pattern to a torque of 11-14 ft.lb. (15 - 19 Nm).
- 8. Open the isolating valves gradually to put the trap back into the service.

## LIMITING CONDITIONS:

PMA: Max. allowable pressure	250 psig
TMA: Max. allowable temp.	400 °F
TMO: Max. operating temp.	400°F
PMA: Max. operating pressure:	
44-215/415/515	15 psig
44-230/430/530	30 psig
44-275/475/575	75 psig
44-2125/4125/5125	125 psig



MEPCO Model		Ordering Code
<sup>3</sup> ⁄4", 1"	44-215/415	PRK44 015 100
1¼"	44-515	PRK44 015 125
11⁄2"	44-715	PRK44 015 150
<sup>3</sup> ⁄4", 1"	44-230/430	PRK44 030 100
1¼"	44-530	PRK44 030 125
11⁄2"	44-730	PRK44 030 150
3⁄4", 1"	44-275/475	PRK44 075 100
1¼"	44-575	PRK44 075 125
11⁄2"	44-775	PRK44 075 150
3⁄4", 1"	44-2125/4125	PRK44 125 100
1¼"	44-5125	PRK44 125 125
1½"	44-7125	PRK44 125 150

## REPAIR KIT CONSISTS OF

PART	DESCRIPTION
А	Cover with whole mechanism mounted
В	Gasket
С	Name plate

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.





## PRK-46 Replacement Module For Mepco Float & Thermostatic Steam Trap

## **DESCRIPTION:**

Completely assembled module can renew the old trap easily & in a short span of time without disturbing the trap connections.

The module consists of the trap cover with complete float mechanism and air vent fitted in ready to install condition. Cover gasket & name3 plate are also included.

## **INSTALLATION:**

- 1. Check the trap nameplate to ensure that the correct replacement module is being installed.
- 2. Isolate the trap from both upstream & downstream pressure. Allow trap to cool.
- 3. Remove the cover by unscrewing the bolts from the body.
- 4. Remove the old gasket & ensure that gasket surface is clean.
- 5. Clean the body thoroughly & check for its soundness.
- 6. Fit the new assembled module & cover gasket on to the trap body. Ensure that the float mechanism on the cover is at the lower end & air vent assembly at the top end.
- 7. Tighten the cover bolts after placing the name plate. Tighten the bolts in a cross pattern to a torque of 11-14 ft.lb. (15-19 Nm), as indicated in the installation manual.
- 8. Open the isolating valves gradually to put the trap back into the service.

## LIMITING CONDITIONS:

PMA: Max. allowable pressure	250 psig
TMA: Max. allowable temp.	400 °F
TMO: Max. operating temp.	400 °F
PMO: Max. operating pressure:	
46-715/815	15 psig
46-730/830	30 psig
46-775/875	75 psig
46-7125/8125	125 psig



MEPCO Model		Ordering Code
1½", 2"	46-715/815	PRK46 015 200
1½", 2"	46-730/830	PRK46 030 200
1½", 2"	46-775/875	PRK46 075 200
1½", 2"	46-7125/8125	PRK46 125 200

## REPAIR KIT CONSISTS OF

PART	DESCRIPTION
А	Cover with whole mechanism mounted
В	Gasket
С	Name plate (fitted on cover)

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.





## PRK-63 Replacement Module For Pennant Float & Thermostatic Steam Trap

## **DESCRIPTION:**

Completely assembled module can renew the old trap easily & in a short span of time without disturbing the trap connections.

The module consists of the trap cover with complete float mechanism and air vent fitted in ready to install condition. Cover gasket & name plate are also included which may be needed at the point of installation.

## **INSTALLATION:**

- 1. Check the trap nameplate to ensure that the correct replacement module is being installed.
- 2. Isolate the trap from both upstream & downstream pressure. Allow trap to cool.
- 3. Remove the cover by unscrewing the bolts from the body.
- 4. Remove the old gasket & ensure that gasket surface is clean.
- 5. Clean the body thoroughly & check for its soundness.
- 6. Fit the new assembled module & cover gasket on to the trap body. Ensure that the float mechanism on the cover is at the lower end & air vent assembly at the top end.
- 7. Tighten the cover bolts after placing the name plate. Tighten the bolts in a cross pattern to a torque of 11-14 ft.lb. (15 - 19 Nm).
- 8. Open the isolating valves gradually to put the trap back into the service.

### LIMITING CONDITIONS:

PMA: Max. allowable pressure	225 psig
TMA: Max. allowable temperature	425 °F
TMO: Max. operating temperature	425 °F
PMO: Max. operating pressure :	
PT63-15	15 psig
PT63-30	30 psig
PT63-75	75 psig
PT63-125	125 psig



PEN	NANT Model	Ordrering Code
<sup>3</sup> ⁄4", 1"	PT63-15	PRK63 015 100
1¼"	PT-63-15	PRK63 015 125
³⁄₄", 1"	PT63-30	PRK63 030 100
1¼"	PT63-30	PRK63 030 125
<sup>3</sup> ⁄4", 1"	PT63-75	PRK63 075 100
1¼"	PT63-75	PRK63 075 125
<sup>3</sup> ⁄4", 1"	PT63-125	PRK63 125 100
1¼"	PT63-125	PRK63 125 125

## REPAIR KIT CONSISTS OF

PART	DESCRIPTION
А	Cover with whole mechanism mounted
В	Gasket
С	Name plate

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.





## How To Order

### **Imperial Units**

#### Thermodynamic Steam Trap

	Model Number					Size			nds		Opti	ons	
Р	Т	1	0		0	5	0	Ν	0	IT			
Eg	.: PT	10, ½	", NF	PT, wi	th Iso	otub							

#### Thermodynamic Steam Trap

	Mode	el Nu	mber		Size		Ends		Options				
Р	Т	1	1		0	5	0	S	0	Τ	В		
Eg	.: PT	11, ½	", So	cket	weld	with	Blow	dowi	n valv	/e & I	sotul	2	

#### Thermodynamic Steam Trap

	Mode	el Nu	mber			Size		Ends		
Р	Τ	1	3	R	0	5	0	F	6	
Eg	.: PT	13R,	1∕₂", F	lang	ed #6	600		_		

#### Thermodynamic Steam Trap

	Model Number					Size			nds		Opti	ons	
Р	Т	1	8		0	7	5	U	0	Ι	Т		
Eg	.: PT	18, ¾	", wit	h Un	ivers	al cor	nnect	ion 8	Isot	ub			

#### Thermodynamic Steam Trap

	Mode	el Nu	mber	0 PT, assem		Size		Ends		Options			
Р	Т	1	8		0	5	0	Ν	0	J	Y		
Eg	.: PT	18, ½	", NF	PT, as	seml	oled v	with F	PU11	Y cor	nect	or		

#### **Inverted Bucket Steam Trap**

	Mode	el Nu	mber		PMO				Size	Ends		
Р	Т	2	3	L	1 2 0			1	0	0	Ν	0
Eg	P T 2 3 L Eg.: PT23L, 120 psi,				' NPT	-						

#### **Inverted Bucket Steam Trap**

	Mode	el Nu	mber			Size		Ends		
Р	Т	2	5	-	0	5	0	F	3	
Eg	.: PT2	25, ½	, Fla	angeo	d #30	0				

#### **Balanced Pressure Thermostatic Steam Trap**

	Mode	el Nu	mber			Size	Ends		
Р	Т	3	0	-	0 7 5			S	0
Eg.: PT30, ¾", Socket Weld									

#### Float & Thermostatic Steam Trap

	Mode	el Nu	mber			PMC	)		Size		En	ds
Р	Т	6	2	-	0	6	5	0	7	5	S	0
Eg	.: PT	62, 6	5 psi,	<sup>3</sup> ⁄4",	Sock	et We	eld					

#### Float & Thermostatic Steam Trap

	Mode	el Nu	mber			PMC	)		Size		En	ds
Р	Т	6	4	Н	0	7	0	2	0	0	Ν	0
Eg	.: PT(	64H,	70 ps	si, 2"	NPT							

#### **Metric Units**

#### Thermodynamic Steam Trap

	Mode	el Nu	mber			Size		Er	nds	I/N	C	ptior	IS
Р	Т	1	0		0	5	0	В	Т	Ι	I	Т	
Eg	.: PT	10, D	N15,	BSP	T, IBI	R witl	h Isot	tub			_		

#### Thermodynamic Steam Trap

	Mode	el Nu	mber			Size		Er	nds		Opti	ons	
Р	Т	1	1		1	0	0	S	0	Т	В		
Eg	.: PT	11, D	N25,	Sock	ket w	eld w	ith Bl	ow de	own v	valve	& Iso	otub	

#### Thermodynamic Steam Trap

	Mode	el Nu	mber			Size		Er	nds	I/N
Р	Т	1	3	R	0	7	5	F	6	
Eg	.: PT	13R,	DN2	0, Fla	ingec	#60	0, IBI	R		

#### Thermodynamic Steam Trap

	Mode	el Nu	mber			Size		Er	nds		Opti	ons	
Р	Т	1	8	V	0	7	5	U	0	1	Т		
Eg	.: PT	18V, I	DN15	5~20,	with	Univ	ersal	conn	ectio	n & I	sotuk	)	

#### Thermodynamic Steam Trap

	Mode	el Nu	mber			Size		Er	nds		Opti	ons	
Р	Т	1	8		0	5	0	Ν	0	J	Y	Т	В
Eg Blo	.: PT <sup>.</sup> w do	18, D wn v	N15, alve	NPT	, asse	emble	ed wi	th PL	J11Y	conn	ector	, Isoti	ub,

#### Inverted Bucket Steam Trap

	Mode	el Nu	mber			PMC	)		Size		En	ds
Р	Т	2	3	L	1	0	0	0	7	5	Ν	0
Eg	.: PT:	23L, <sup>-</sup>	10 kg	/cm²,	DN2	20, NF	РΤ					

#### Inverted Bucket Steam Trap

	Mode	el Nu	mber			Size		Er	nds
Р	Т	2	5	-	2	0	0	F	3
Eg	.: PT2	25, D	N50,	Flan	ged #	<i>‡</i> 300			

#### **Balanced Pressure Thermostatic Steam Trap**

	Mode	el Nu	mber			Size		Er	nds
Р	Т	3	0	-	0	7	5	S	0
Eg	.: PT:	30, D	N20,	Sock	ket W	eld			

#### Float & Thermostatic Steam Trap

	Mode	el Nu	mber			PMC	)		Size		En	ds
Р	Т	6	2	-	0	4	5	1	0	0	S	0
Eg	.: PT	62, 4	kg/cn	n², DI	V100	, Soc	ket V	/eld				

#### Float & Thermostatic Steam Trap

	Mode	el Nu	mber			PMC	)		Size		En	ds
Р	Т	6	4	Н	0	5	0	2	0	0	Ν	0
Eg	.: PT6	64H,	5kg/d	cm²,C	N50,	NPT	-					



# How To Order contd.

#### **Imperial Units**

#### Liquid Drain Trap

	Model Number					PMC	)		Size		Ends		
Р	D	6	1		1	4	2	0	5	0	Ν	0	
Eg.: PD61, 142 psi, ½				, NP	Г								

#### **Thermostatic Air Vent**

	Mode	el Nu	mber			Size		Er	nds
Р	Т	3	1	Α	0	5	0	Ν	0
Eg	.: PT:	31A,	1∕2", N	IPT					

#### Sight Glass

Model Number						Size		Er	nds
Р	G	7	1		1	0	0	В	Р
Eg.: PG71, 1", BSP									

#### Non Slam Disc Check Valve

	Mode	el Nu		Size			
Р	С	1	1		4	0	0
Eg.:	PC1	1, 4"					

#### Float & Thermostatic Repair Kit

Model Number						PMC	)		Size	
Р	R	Κ	6	3	0	1	5	1	0	0
Eg.: Repair Kit for PENNA					NT N	lodel	PT63	3, 15 p	osi, ¾	~1"

#### **Universal Connector**

	Mode	el Nu	mber			Size		Er	nds		Opti	ons	
Р	U	1	1	Y	0	5	5 0 N O B D						
Eg.:	<mark>⊃ U 1 1 1 Y</mark> g.: PU11, ½", NPT, wi			T, witl	h Blo	w do	wn va	alve					

#### Float Type Air Eliminator

	Mode	el Nu	mber			PMC	)		Size		Ends		
Р	Α	6	1		2 0 0			0	7	5	Ν	0	
Eg.:	PA6	1, 20	0 psi,	<sup>3</sup> ⁄4",	NPT						-		

#### 'Y' Strainer

	Mode	el Nu	mber			Size		Er	nds
Р	S	1	1		0	5	В	Т	
Eg.:	PS1	1, 1⁄2"	, BSF	РΤ	-	-		-	

#### **Blow Down Valve**

	Model Number					Size		Er	nds
Р	В	D	6	3	1	0	0	Ν	0
Eg.: Blow down valve fo					r moo	del P	T63,	1" NF	т

#### Isotub

	Mode	el Nu		Size			
P I T 1 1 1 0 0							
Eg.:	Isotu	ub for	el PT	11, 1	"		

#### Metric Units

#### Liquid Drain Trap

	Mode	el Nu	mber			PMC	)		Size		Ends	
Р	D	6	1	-	1 4 0			0	7	5	Ν	0
Eg	P D 6 1 - Eg.: PD61, 14kg/cm <sup>2</sup> , 1				DN20	, NP	Г					

#### Thermostatic Air Vent

	Model Number					Size		Er	nds
Р	Т	3	1	А	0	5	0	Ν	0
Eg.: PT31A, DN15, NP					T				

#### Sight Glass

	Mode	el Nu	mber			Size		Er	nds
Р	G	7	1		1	5	0	В	Р
Eg.	PG7	'1, DI	N40,	BSP					

#### Non Slam Disc Check Valve

	Mode	el Nu		Size		I/N		
Р	С	1	4	0	0	-		
Eg	: PC	11, D	N100	), IBR	2			

#### Float & Thermostatic Repair Kit

Model Number						PMC	)		Size	
Р	R	Κ	6	3	0	2	0	0	7	5
Eg.: DN2	: Rep 20~2	air Ki 5	t for	PENI	NAN	Г Мос	del P	T63,	2 kg/	cm²

#### **Universal Connector**

Model Number			Size			Ends		I/N	C	ptior	าร
Р	U	1	1	Y	0 5 0 N O I E				В	D	
Eg.	Eg.: PU11Y, DN15, NPT, with Blow down valve, IBR										

#### Float Type Air Eliminator

Model Number			PMO				Size		Ends			
Р	Α	6	1		1 0 0			0	5	0	В	Т
Eg.: PA61, 10 kg/cm <sup>2</sup> , D					N15,	BSP	Т					

#### 'Y' Strainer

	Mode	el Nu	mber			Size		Er	I/N	
Р	P S 1 1					0	0	S	0	
Eg.:	Eg.: PS11, DN50, Socket weld, IBR									

#### Blow Down Valve

	Mode	el Nu	mber			Size		Er	I/N
Р	В	D	1	7	0 5 0 S O				Ν
Eg.: Blow down valve for model PT17, DN15, Socket weld								weld	

#### Isotub

	Mode	el Nu		Size			
P I T 1 0 0 5 0							
Eg.:	Eg.: Isotub for model PT10, DN15						



## LEGEND:

	SIZE		END C	ONNECTIONS
Code	Description in Imperial	Description in Metric	Code	Description
025	NPS ¼	DN8	NO	NPT
038	NPS 3/8	DN10	BT	BSPT
050	NPS ½	DN15	BP	BSP
075	NPS ¾	DN20	SO	Socket Weld
100	NPS 1	DN25	BO	Butt Weld
125	NPS 11/4	DN32	F1	ANSI Flanged #150
150	NPS 11/2	DN40	F3	ANSI Flanged #300
200	NPS 2	DN50	F6	ANSI Flanged #600
250	NPS 21/2	DN65	TC	Tri-clover
300	NPS 3	DN80	D1	DIN Flanged PN10
400	NPS 4	DN100	D2	DIN Flanged PN16
500	NPS 5	DN125	D3	DIN Flanged PN25
600	NPS 6	DN150	D4	DIN Flanged PN40
800	NPS 8	DN200	UO	Universal bolted

MO	DEL - 5th digit stands for		OPTIONS
Code	Description	Code	Description
A	Air Vent	JT	Joint / Assembled with PU11
S	Steam Lock Release (SLR)	JY	Joint / Assembled with PU11Y
С	Combined Air Vent & SLR	IT	Isotub
F	SS (Stainless Steel)	BD	Blow down valve
Н	High Capacity	TB	Isotub & blow down valve
L	Low Capacity		
R	Replaceable		
Y	'Y' type configuration		

IBR / Non IBR					
Code	Description				
IBR	I				
NIBR	Ν				

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Our Mission -'To be the world leader of low-cost, high quality products that deliver operational savings to our customers'.



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