DOUGLAS ITALIA

THERMODYNAMIC STEAM TRAPS

- DA
- DAA F6
- DF
- DC 50 A105
- DC 50 A105 1½”
- DC 50 A105 2”
- DC 50 L A105
- DC 50 A A105
- DC 50 F304
- DC 50 F304 1½”
- DC 50 F304 2”
- DC 50 L F304
- DC 50 A F304
- DK 100 A105
- DK 100 F22
- DK 150 F22
- DK 150 F304

GO BACK

DOUGLAS ITALIA S.P.A.

THERMODYNAMIC STEAM TRAPS

DA

THERMODYNAMIC

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area (Bernulli Law) under the disc which draws it towards the seat.

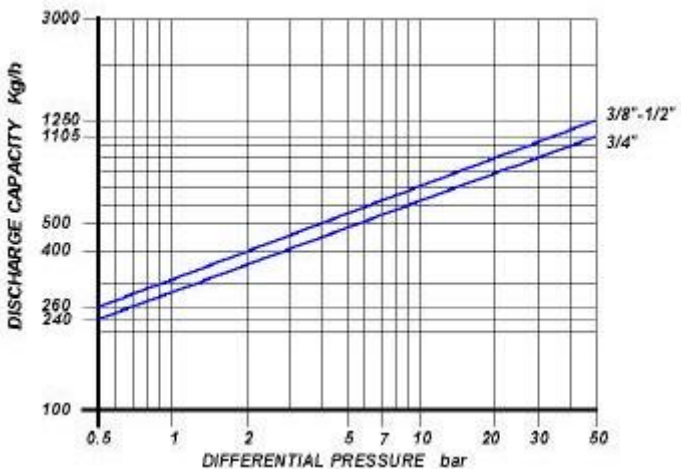
MAIN FEATURES

Reduced dimension and wheigt simple and reliable. It discharges air. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.

APPLICATIONS

- *Ironing machines*
- *Steam mains*
- *Tracing lines*
- *Turbines*
- *Marine applications*
- *Presses*

DISCHARGE CAPACITY



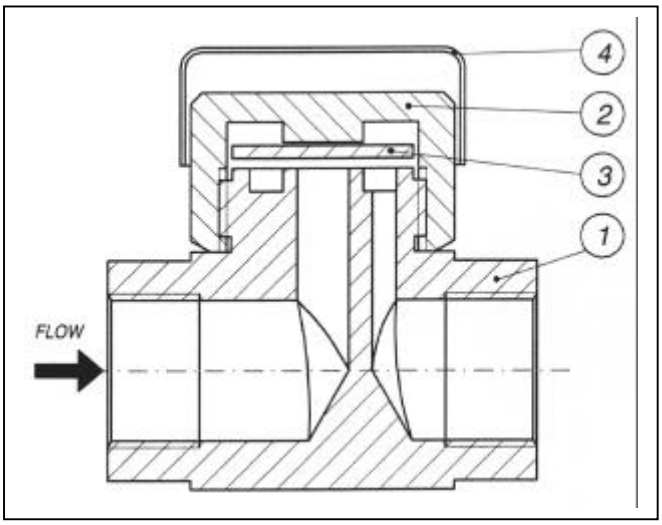
Cold water capacities are 2 to 4 times greater than the above .
Safety factor = 1.2 – 1.5

SIZES
3/8" – ½" – ¾"

CONNECTIONS	
SCREWED	*ANSI B1.20.1 (NPT) / BS21 (BSP*

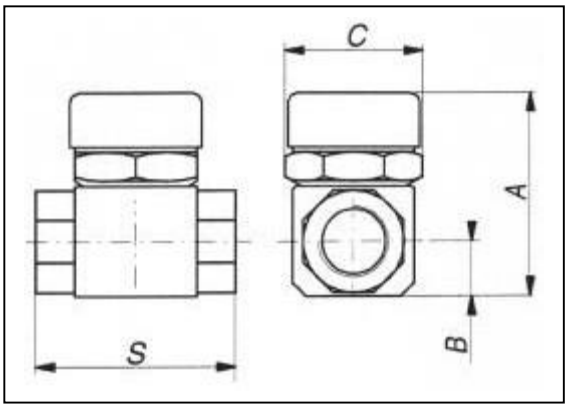
LIMITING CONDITIONS (according to ISO 6552)	
Steam Trap rating	*ANSI 600*
PMA: Max allowable pressure	*100 bar*
TMA: max allowable temperature	*425°C*
PMO: max working pressure	*50 bar*
TMO: max working temperature	*400°C*
Minimum Working Pressure	*0.25 bar*
PMOB: max working back pressure	*80%*

THERMODYNAMIC STEAM TRAPS
DA



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A 182 F6a	
2	Cover	ASTM A 182 F6a	
3	Disc	AISI 431	X
4	Insulating cap*	AISI 304	
*** optional**			

Size (inches)	S	A	B	C	Weight (Kg)
3/8"	70	65	16	47	0.6
½"	70	65	16	47	0.6
¾"	75	77	20	52	1.1



INSTALLATION

The steam trap can be istalled in any position, however it should be preferably fitted on horizontal pipelines.

How to order: i.e. DA ½" NPT

DOUGLAS ITALIA S.p.A Località Pradaglie – 29013 CARPANETO PIACENTINO (PC)

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DOUGLAS ITALIA S.P.A.

THERMODYNAMIC STEAM TRAPS
DAA F6

THERMODYNAMIC

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area (Bernulli Law) under the disc which draws it towards the seat.

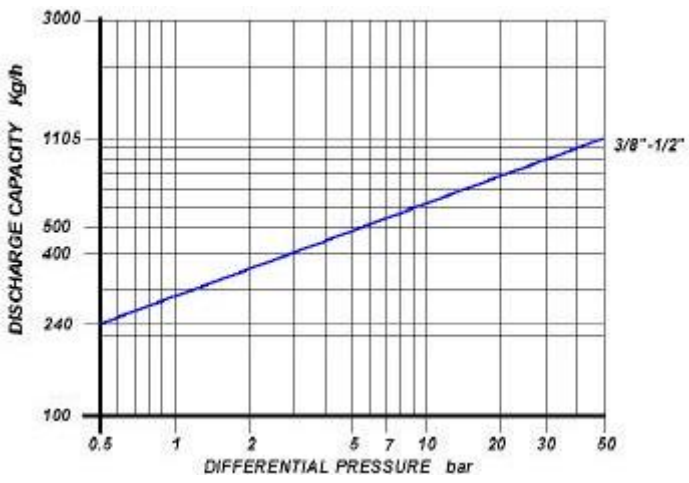
MAIN FEATURES

Reduced dimension and wheigt simple and reliable. ***Special air venting disc****. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.*

APPLICATIONS

- *Ironing machines*
- *Steam mains*
- *Tracing lines*
- *Turbines*
- *Marine applications*
- *Presses*

DISCHARGE CAPACITY



Cold water capacities are 2 to 4 times greater than the above .
Safety factor = 1.2 – 1.5

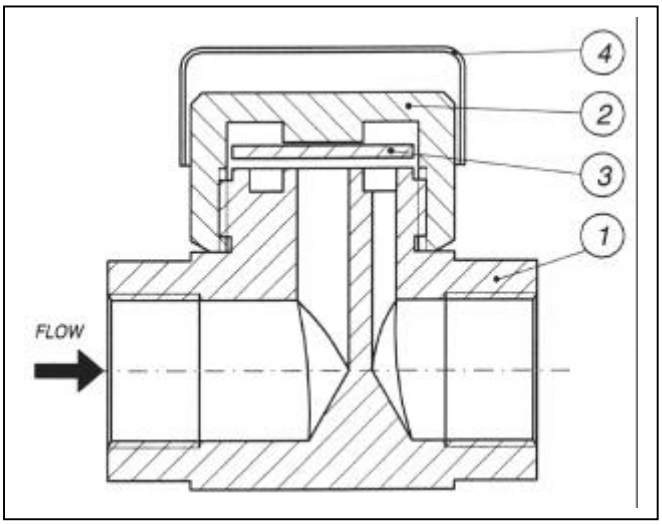
SIZES
3/8" – ½"

CONNECTIONS	
SCREWED	*ANSI B1.20.1 (NPT) / BS21 (BSP*

LIMITING CONDITIONS (according to ISO 6552)	
Steam Trap rating	*ANSI 600*
PMA: Max allowable pressure	*100 bar*
TMA: max allowable temperature	*390°C*
PMO: max working pressure	*50 bar*
TMO: max working temperature	*350°C*
Minimum Working Pressure	*0.25 bar*
PMOB: max working back pressure	*80%*

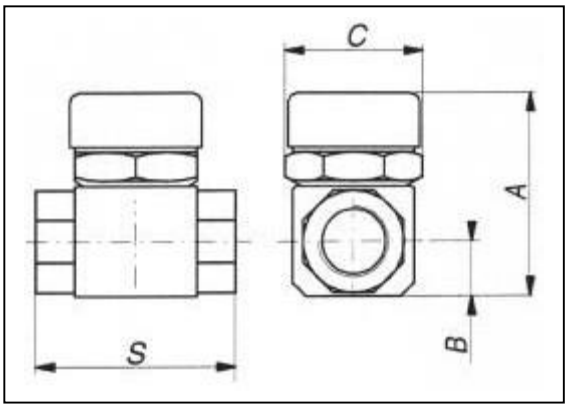
THERMODYNAMIC STEAM TRAPS

DAA F6



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A 182 F6a	
2	Cover	AISI 303	X
3	Disc	AISI 431	X
4	Insulating cap*	AISI 304	
*** optional**			

Size (inches)	S	A	B	C	Weight (Kg)
3/8"	70	65	16	47	0.6
½"	70	65	16	47	0.6



INSTALLATION

The steam trap can be istalled in any position, however it should be preferably fitted on horizontal pipelines.

How to order: i.e. *DAA F6 ½" NPT*

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DOUGLAS ITALIA S.P.A.

THERMODYNAMIC STEAM TRAPS
DF

THERMODYNAMIC

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area (Bernulli Law) under the disc which draws it towards the seat.

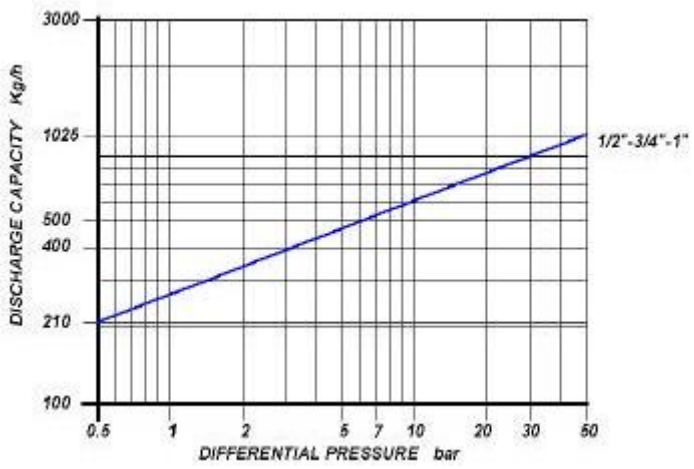
MAIN FEATURES

Reduced dimension and wheigt simple and reliable. It discharges air. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.

APPLICATIONS

- *Ironing machines*
- *Steam mains*
- *Tracing lines*
- *Turbines*
- *Marine applications*
- *Presses*

DISCHARGE CAPACITY



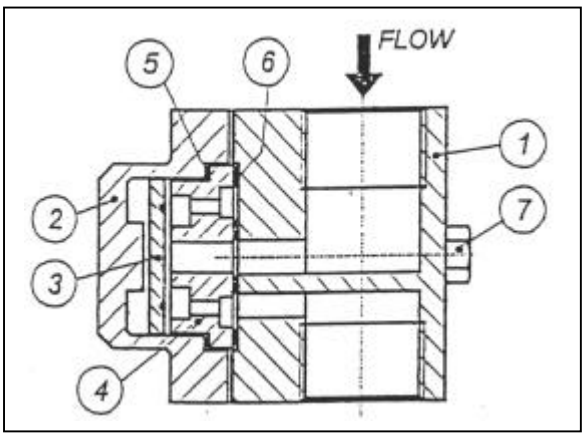
Cold water capacities are 2 to 4 times greater than the above .
Safety factor = 1.2 – 1.5

SIZES
½" – ¾" – 1"

CONNECTIONS	
Screwed	ANSI B1.20.1 (NPT) / BS21 (BSP)
Socket Welding	ANSI B 16.11

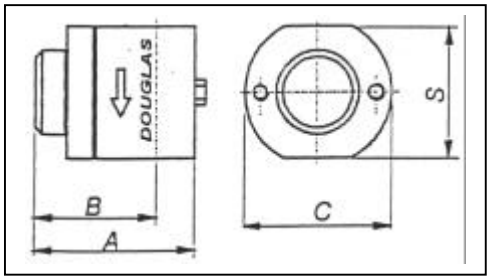
LIMITING CONDITIONS (according to ISO 6552)	
Steam Trap rating	ANSI 300
PMA: Max allowable pressure	50 bar
TMA: max allowable temperature	500°C
PMO: max working pressure	50 bar
TMO: max working temperature	380°C

THERMODYNAMIC STEAM TRAPS
DF



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A 182 F304	
2	Cover	ASTM A 182 F304	X
3	Disc	AISI 431	X
4	Seat	AISI 431	
5	Gasket	Non asbetos material	
6	Gasket	Non asbetos material	
7	Bolts	ASTM A 193 B 8	

Size (inches)	S	A	B	C	Weight (Kg)
½"	60	78	60	70	1.5
¾"	60	78	60	70	1.5
1"	68	83	62	80	1.8



INSTALLATION
The steam trap can be installed in any position, however it should be preferably fitted on horizontal pipelines.

HOW TO SERVICE
By installing a new seat-disc assembly you can bring the steam trap to the "as new from factory" condition. This operation is carried out in a few minutes without removing steam trap from the pipeline. Unscrew cover (2) and remove disc(3), seat(4) and clean the inside of the trap. Put in new parts. Scew on cover(2) using a high temperature grease.

NOTE
The thermodynamic steam trap DF can be installed on the same connector of our inverted bucket steam trap mod. IF. Please contact our technical departement.

How to order: i.e.

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DOUGLAS ITALIA S.P.A.

THERMODYNAMIC STEAM TRAPS
DC 50 A 105

THERMODYNAMIC

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area (Bernulli Law) under the disc which draws it towards the seat.

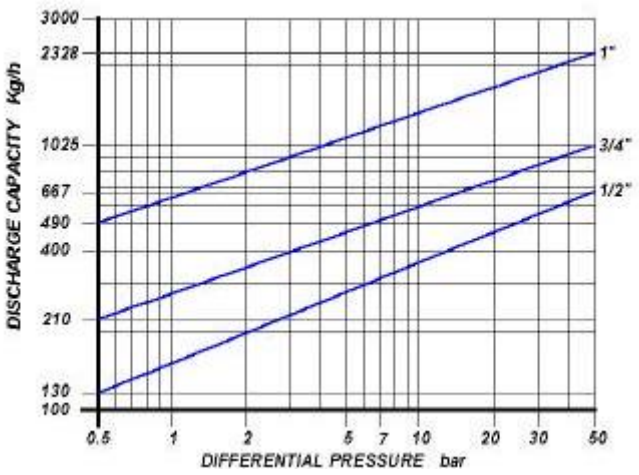
MAIN FEATURES

Reduced dimension and wheigt simple and reliable. It discharges air. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.

APPLICATIONS

- *Ironing machines*
- *Steam mains*
- *Tracing lines*
- *Turbines*
- *Marine applications*
- *Presses*

DISCHARGE CAPACITY



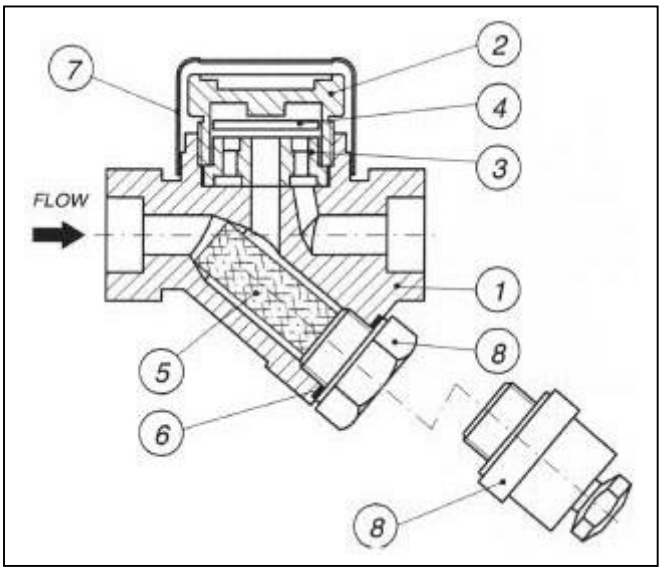
Cold water capacities are 2 to 4 times greater than the above .
Safety factor = 1.2 – 1.5

SIZES
½" – ¾" – 1"

CONNECTIONS	
Screwed	ANSI B1.20.1 (NPT) / BS21 (BSP)
Socket Welding	ANSI B16.11
Flanged	ANSI 150#/300#/600#/UNI/DIN

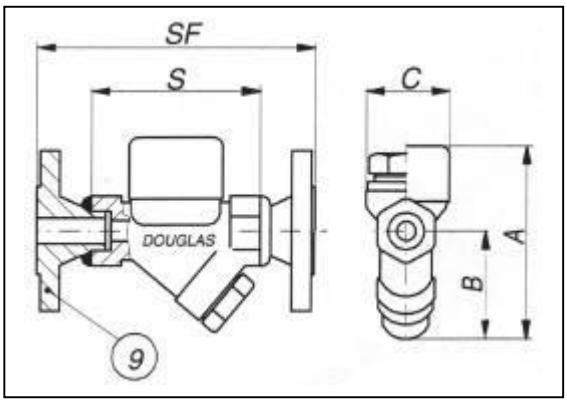
LIMITING CONDITIONS (according to ISO 6552)	
Steam Trap rating	ANSI 600
PMA: Max allowable pressure	100 bar
TMA: max allowable temperature	390°C
PMO: max working pressure	50 bar
TMO: max working temperature	350°C
Minimum Working Pressure	0.25 bar
PMOB: max working back pressure	80%

THERMODYNAMIC STEAM TRAPS
DC 50 A 105



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A 105	
2	Cover	AISI 303	
3	Seat	AISI 431	X
4	Disc	AISI 431	X
5	Screen	AISI 304	X
6	Gasket	316/GRAPHITE	X
7	Insulating cap*	AISI 304	
8	Strainer cap	ASTM A105	
8	Blow off valve*	AISI 416	
9	Flange	ASTM A 105	
*** optional**			

						Flanged							
Size (inches)	S	A	B	C	Weight (Kg)	UNI-DIN PN16-25-40		150#		300#		600#	
						SF	Kg	SF	Kg	SF	Kg	SF	Kg
½"	85	108	55	48	0.8	151	2.4	145	2.2	165	2.4	175	2.5
¾"	100	120	60	54	1.3	170	3.6	170	3	190	4.1	200	4.5
1"	108	130	70	62	3.4	178	5.2	188	4.6	198	5.8	218	6.2



INSTALLATION

The steam trap can be installed in any position, however it should be preferably fitted on horizontal pipelines.

HOW TO SERVICE

By installing a new seat-disc assembly you can bring the steam trap to the "as new from factory" condition. This operation is carried out in a few minutes without removing steam trap from the pipeline. Unscrew cover (2) and remove disc(4), seat(3) and clean the inside of the trap. Put in new parts. Scew on cover(2) using a high temperature grease. To service the strainer unscrew cap(8), withdraw screen(5) and clean or replace it. Screwing cover back in place always fit a new gasket(6).

How to order: i.e. *DC 50 A105 ½" 150#RF*

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DOUGLAS ITALIA S.P.A.

THERMODYNAMIC STEAM TRAPS

DC50 A105 ø 1.1/2”

THERMODYNAMIC

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area (Bernulli Law) under the disc which draws it towards the seat.

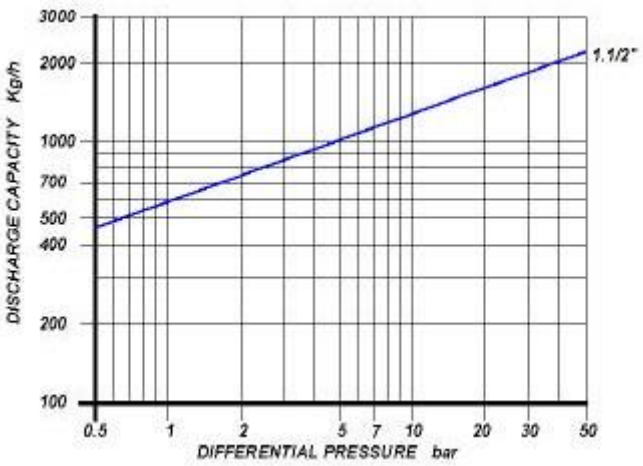
MAIN FEATURES

Reduced dimension and wheigt simple and reliable. It discharges air. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.

APPLICATIONS

- *Ironing machines*
- *Steam mains*
- *Tracing lines*
- *Turbines*
- *Marine applications*
- *Presses*

DISCHARGE CAPACITY



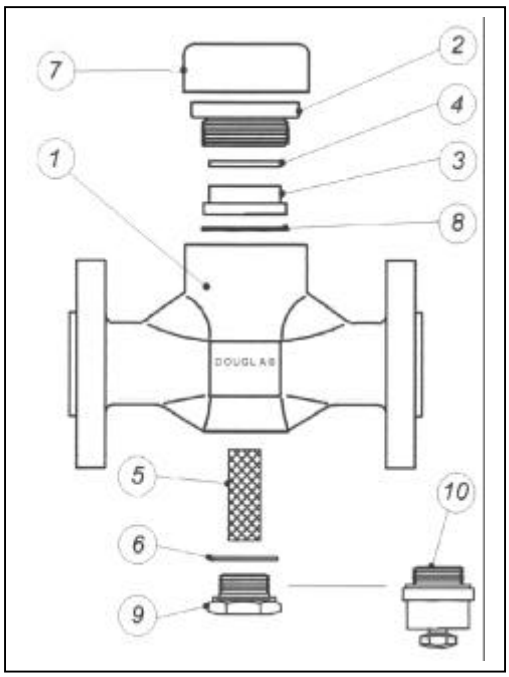
Cold water capacities are 2 to 4 times greater than the above .
Safety factor = 1.2 – 1.5

SIZES
1½”

CONNECTIONS	
Screwed	ANSI B1.20.1 (NPT) / BS21 (BSP)
Socket Welding	ANSI B16.11
Flanged	ANSI 150#/300#/600#/UNI/DIN

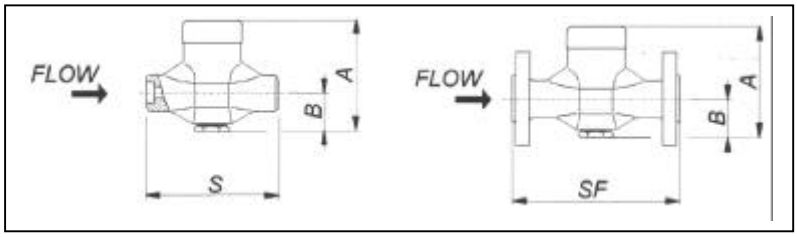
LIMITING CONDITIONS (according to ISO 6552)	
Steam Trap rating	ANSI 600
PMA: Max allowable pressure	68 bar
TMA: max allowable temperature	400°C
PMO: max working pressure	50 bar
TMO: max working temperature	350°C
Minimum Working Pressure	0.25 bar
PMOB: max working back pressure	80%

THERMODYNAMIC STEAM TRAPS
DC 50 A 105 ø 1.1/2”



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	A 105	
2	Cover	AISI 303	
3	Seat	AISI 431 HT	X
4	Disc	AISI 431 HT	X
5	Screen	AISI 304	X
6	Gasket	316 / GRAPHITE	X
7	Insulating cap *	AISI 304	X
8	Gasket	Reinforced graphite	X
9	Strainer cap	AISI 105	X
10	Blow – off valve *	AISI 416	X
*** optional**			

					Flanged							
Size (inches)	S	A	B	Weight (Kg)	UNI-DIN PN16-25-40		150#		300#		600#	
					SF	Kg	SF	Kg	SF	Kg	SF	Kg
1½”	125	130	50	3.5	205	6	215	6.5	225	9.5	245	10.5



INSTALLATION

The steam trap can be installed in any position, however it should be preferably fitted on horizontal pipelines.

HOW TO SERVICE

By installing a new seat-disc assembly you can bring the steam trap to the “as new from factory” condition. This operation is carried out in a few minutes without removing steam trap from the pipeline. Unscrew cover (2) and remove disc (4), seat (3) and gasket (4)and clean the inside of the trap. Put in new part aligning the gasket hole with the hole inthe trap body. Screw on cover (2) using a high temperature grease. To service the strainer unsrew plug (9), withdraw screen (5) and clean or replace it. Screwing cover back in place always fit a new gasket (6).

How to order: i.e. *DC 50 A105 1½” NPT*

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DOUGLAS ITALIA S.P.A.

THERMODYNAMIC STEAM TRAPS

DC50 A105 ø 2”

THERMODYNAMIC

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area (Bernulli Law) under the disc which draws it towards the seat.

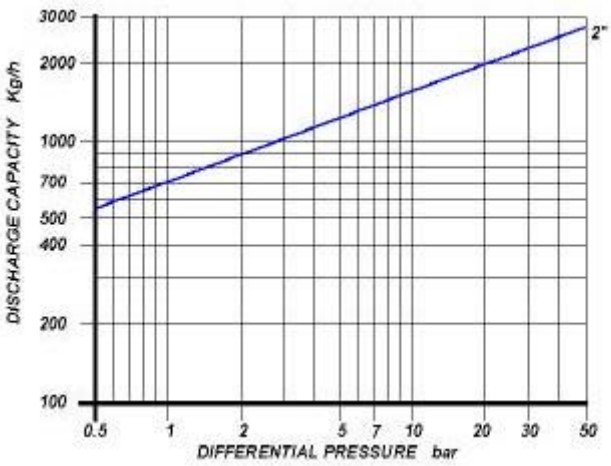
MAIN FEATURES

Reduced dimension and wheigt simple and reliable. It discharges air. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.

APPLICATIONS

- *Ironing machines*
- *Steam mains*
- *Tracing lines*
- *Turbines*
- *Marine applications*
- *Presses*

DISCHARGE CAPACITY



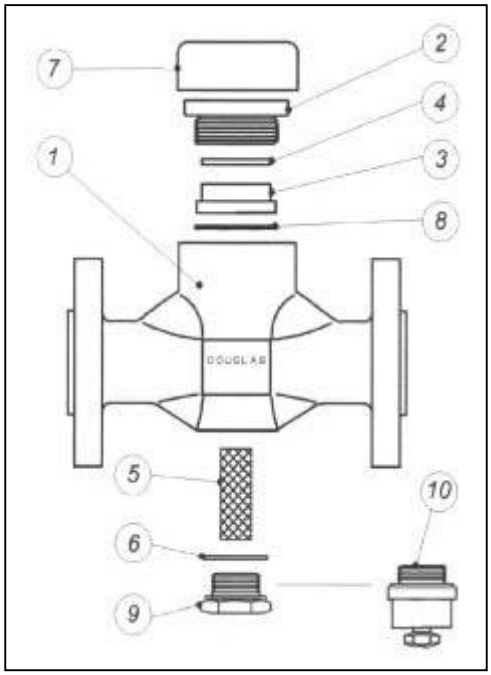
Cold water capacities are 2 to 4 times greater than the above .
Safety factor = 1.2 – 1.5

SIZES
2”

CONNECTIONS	
Screwed	ANSI B1.20.1 (NPT) / BS21 (BSP)
Socket Welding	ANSI B16.11
Flanged	ANSI 150#/300#/600#/UNI/DIN

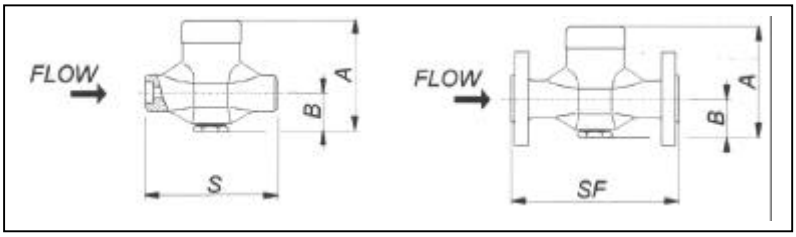
LIMITING CONDITIONS (according to ISO 6552)	
Steam Trap rating	ANSI 600
PMA: Max allowable pressure	68 bar
TMA: max allowable temperature	400°C
PMO: max working pressure	50 bar
TMO: max working temperature	350°C
Minimum Working Pressure	0.25 bar
PMOB: max working back pressure	80%

THERMODYNAMIC STEAM TRAPS
DC 50 A 105 ø 2”



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	A 105	
2	Cover	AISI 303	
3	Seat	AISI 431 HT	X
4	Disc	AISI 431 HT	X
5	Screen	AISI 304	X
6	Gasket	316 / GRAPHITE	X
7	Insulating cap *	AISI 304	X
8	Gasket	Reinforced graphite	X
9	Strainer cap	AISI 105	X
10	Blow – off valve *	AISI 416	X
*** optional**			

					Flanged							
Size (inches)	S	A	B	Weight (Kg)	UNI-DIN PN16-25-40		150#		300#		600#	
					SF	Kg	SF	Kg	SF	Kg	SF	Kg
2”	130	130	50	4.3	225	6.4	256	8	269	10	288	11.2



INSTALLATION

The steam trap can be installed in any position, however it should be preferably fitted on horizontal pipelines.

HOW TO SERVICE

By installing a new seat-disc assembly you can bring the steam trap to the “as new from factory” condition. This operation is carried out in a few minutes without removing steam trap from the pipeline. Unscrew cover (2) and remove disc (4), seat (3) and gasket (4)and clean the inside of the trap. Put in new part aligning the gasket hole with the hole inthe trap body. Screw on cover (2) using a high temperature grease. To service the strainer unsrew plug (9), withdraw screen (5) and clean or replace it. Screwing cover back in place always fit a new gasket (6).

How to order: i.e. *DC 50 A105 2” NPT*

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DOUGLAS ITALIA S.P.A.

THERMODYNAMIC STEAM TRAPS

DC50 A105 ø 2”

THERMODYNAMIC

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area (Bernulli Law) under the disc which draws it towards the seat.

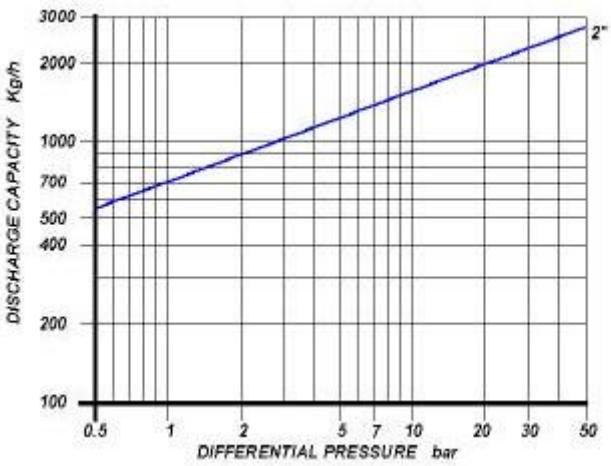
MAIN FEATURES

Reduced dimension and wheigt simple and reliable. It discharges air. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.

APPLICATIONS

- *Ironing machines*
- *Steam mains*
- *Tracing lines*
- *Turbines*
- *Marine applications*
- *Presses*

DISCHARGE CAPACITY



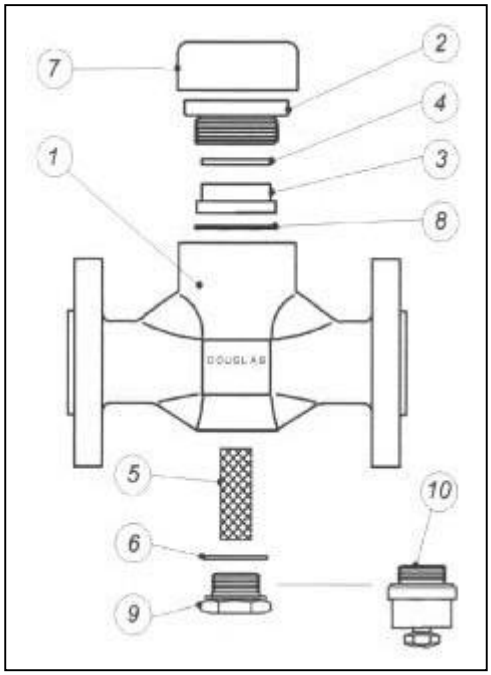
Cold water capacities are 2 to 4 times greater than the above .
Safety factor = 1.2 – 1.5

SIZES
2”

CONNECTIONS	
Screwed	ANSI B1.20.1 (NPT) / BS21 (BSP)
Socket Welding	ANSI B16.11
Flanged	ANSI 150#/300#/600#/UNI/DIN

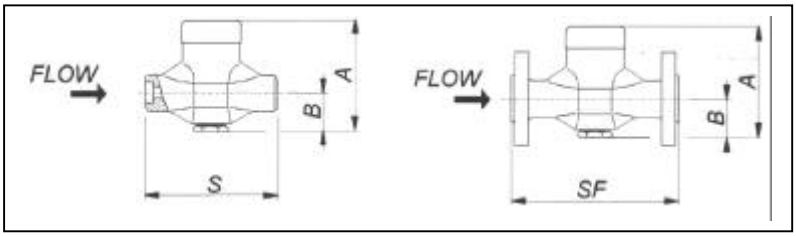
LIMITING CONDITIONS (according to ISO 6552)	
Steam Trap rating	ANSI 600
PMA: Max allowable pressure	68 bar
TMA: max allowable temperature	400°C
PMO: max working pressure	50 bar
TMO: max working temperature	350°C
Minimum Working Pressure	0.25 bar
PMOB: max working back pressure	80%

THERMODYNAMIC STEAM TRAPS
DC 50 A 105 ø 2”



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	A 105	
2	Cover	AISI 303	
3	Seat	AISI 431 HT	X
4	Disc	AISI 431 HT	X
5	Screen	AISI 304	X
6	Gasket	316 / GRAPHITE	X
7	Insulating cap *	AISI 304	X
8	Gasket	Reinforced graphite	X
9	Strainer cap	AISI 105	X
10	Blow – off valve *	AISI 416	X
*** optional**			

					Flanged							
Size (inches)	S	A	B	Weight (Kg)	UNI-DIN PN16-25-40		150#		300#		600#	
					SF	Kg	SF	Kg	SF	Kg	SF	Kg
2”	130	130	50	4.3	225	6.4	256	8	269	10	288	11.2



INSTALLATION

The steam trap can be installed in any position, however it should be preferably fitted on horizontal pipelines.

HOW TO SERVICE

By installing a new seat-disc assembly you can bring the steam trap to the “as new from factory” condition. This operation is carried out in a few minutes without removing steam trap from the pipeline. Unscrew cover (2) and remove disc (4), seat (3) and gasket (4)and clean the inside of the trap. Put in new part aligning the gasket hole with the hole inthe trap body. Screw on cover (2) using a high temperature grease. To service the strainer unsrew plug (9), withdraw screen (5) and clean or replace it. Screwing cover back in place always fit a new gasket (6).

How to order: i.e. *DC 50 A105 2” NPT*

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DOUGLAS ITALIA S.P.A.

THERMODYNAMIC STEAM TRAPS
LOW CAPACITIES
DC 50L A 105

THERMODYNAMIC

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area (Bernulli Law) under the disc which draws it towards the seat.

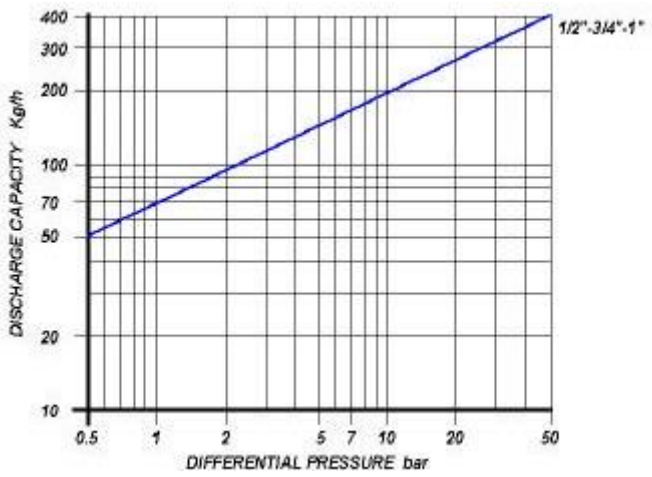
MAIN FEATURES

Reduced dimension and wheigt simple and reliable. It discharges air. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.

APPLICATIONS

- *Ironing machines*
- *Steam mains*
- *Tracing lines*
- *Turbines*
- *Marine applications*
- *Presses*

DISCHARGE CAPACITY



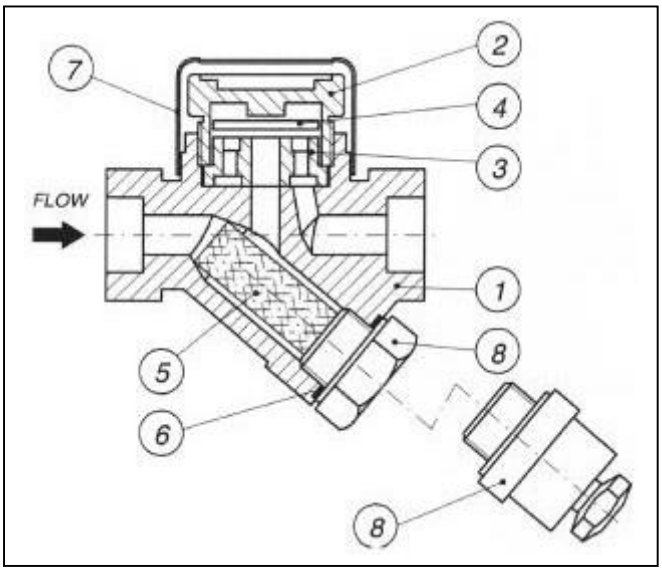
Cold water capacities are 2 to 4 times greater than the above .
Safety factor = 1.2 – 1.5

SIZES
½" – ¾" – 1"

CONNECTIONS	
Screwed	ANSI B1.20.1 (NPT) / BS21 (BSP)
Socket Welding	ANSI B16.11
Flanged	ANSI 150#/300#/600#/UNI/DIN

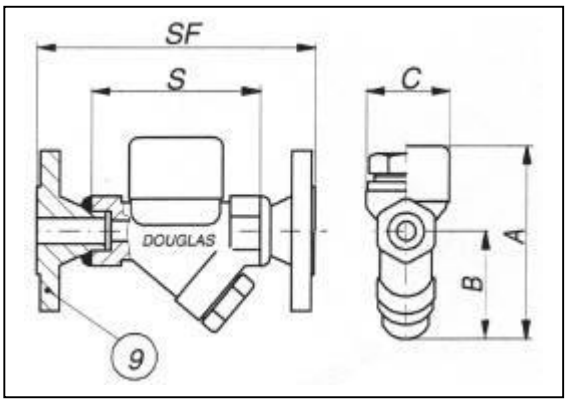
LIMITING CONDITIONS (according to ISO 6552)	
Steam Trap rating	ANSI 600
PMA: Max allowable pressure	100 bar
TMA: max allowable temperature	390°C
PMO: max working pressure	50 bar
TMO: max working temperature	350°C
Minimum Working Pressure	0.25 bar
PMOB: max working back pressure	80%

THERMODYNAMIC STEAM TRAPS LOW CAPACITIES
DC 50L A 105



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A 105	
2	Cover	AISI 303	
3	Seat	AISI 431	X
4	Disc	AISI 431	X
5	Screen	AISI 304	X
6	Gasket	316/GRAPHITE	X
7	Insulating cap*	AISI 304	
8	Strainer cap	ASTM A105	
8	Blow off valve*	AISI 416	
9	Flange	ASTM A 105	
*** optional**			

Flanged													
Size (inches)	S	A	B	C	Weight (Kg)	UNI-DIN PN16-25-40		150#		300#		600#	
						SF	Kg	SF	Kg	SF	Kg	SF	Kg
½"	85	108	55	48	0.8	151	2.4	145	2.2	165	2.4	175	2.5
¾"	100	120	60	54	1.3	170	3.6	170	3	190	4.1	200	4.5
1"	108	130	70	62	3.4	178	5.2	188	4.6	198	5.8	218	6.2



INSTALLATION

The steam trap can be installed in any position, however it should be preferably fitted on horizontal pipelines.

HOW TO SERVICE

By installing a new seat-disc assembly you can bring the steam trap to the "as new from factory" condition. This operation is carried out in a few minutes without removing steam trap from the pipeline. Unscrew cover (2) and remove disc(4), seat(3) and clean the inside of the trap. Put in new parts. Scew on cover(2) using a high temperature grease. To service the strainer unscrew cap(8), withdraw screen(5) and clean or replace it. Screwing cover back in place always fit a new gasket(6).

How to order: i.e. *DC 50L A105 ½" 150 RF*

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DOUGLAS ITALIA S.P.A.

THERMODYNAMIC STEAM TRAPS

DC 50/A A105

THERMODYNAMIC

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area (Bernulli Law) under the disc which draws it towards the seat.

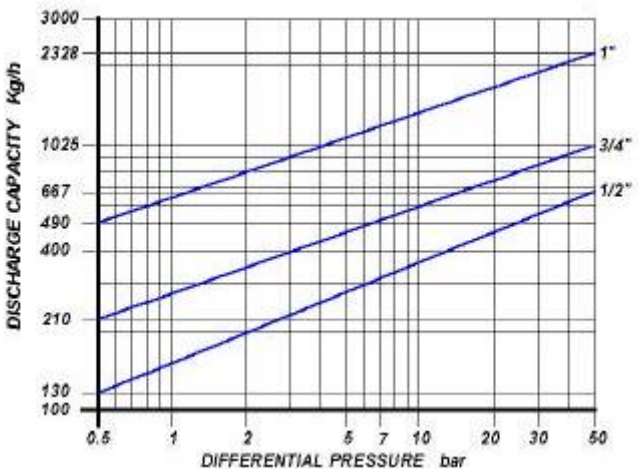
MAIN FEATURES

Reduced dimension and wheigt simple and reliable. ***Special air venting disc****. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.*

APPLICATIONS

- *Ironing machines*
- *Steam mains*
- *Tracing lines*
- *Turbines*
- *Marine applications*
- *Presses*

DISCHARGE CAPACITY



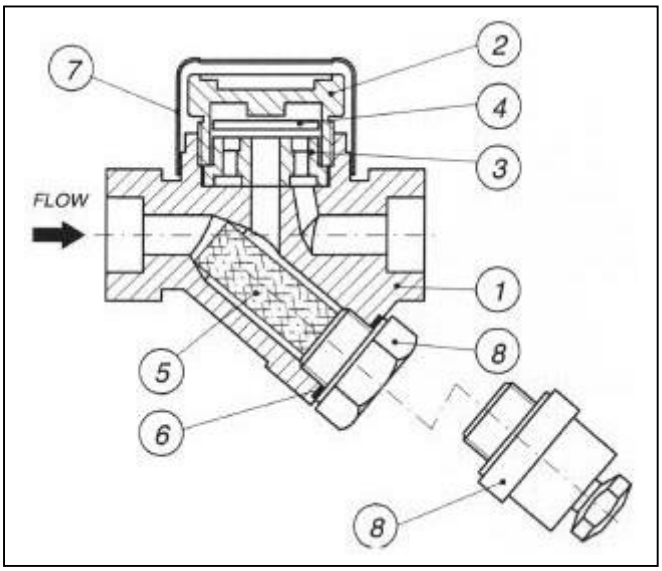
Cold water capacities are 2 to 4 times greater than the above . Safety factor = 1.2 – 1.5

SIZES
½" – ¾" – 1"

CONNECTIONS	
Screwed	ANSI B1.20.1 (NPT) / BS21 (BSP)
Socket Welding	ANSI B16.11
Flanged	ANSI 150#/300#/600#/UNI/DIN

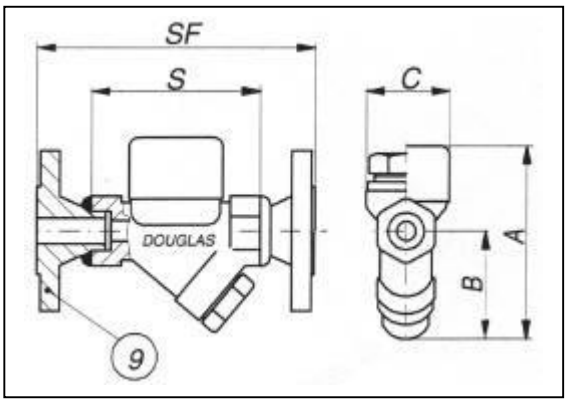
LIMITING CONDITIONS (according to ISO 6552)	
Steam Trap rating	ANSI 600
PMA: Max allowable pressure	100 bar
TMA: max allowable temperature	390°C
PMO: max working pressure	50 bar
TMO: max working temperature	350°C
Minimum Working Pressure	0.25 bar
PMOB: max working back pressure	80%

THERMODYNAMIC STEAM TRAPS
DC 50/A A 105



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A 105	
2	Cover	AISI 303	
3	Seat	AISI 431	X
4	Disc	AISI 431	X
5	Screen	AISI 304	X
6	Gasket	316/GRAPHITE	X
7	Insulating cap*	AISI 304	
8	Strainer cap	ASTM A105	
8	Blow off valve*	AISI 416	
9	Flange	ASTM A 105	
*** optional**			

						Flanged							
Size (inches)	S	A	B	C	Weight (Kg)	UNI-DIN PN16-25-40		150#		300#		600#	
						SF	Kg	SF	Kg	SF	Kg	SF	Kg
½"	85	108	55	48	0.8	151	2.4	145	2.2	165	2.4	175	2.5
¾"	100	120	60	54	1.3	170	3.6	170	3	190	4.1	200	4.5
1"	108	130	70	62	3.4	178	5.2	188	4.6	198	5.8	218	6.2



INSTALLATION

The steam trap can be installed in any position, however it should be preferably fitted on horizontal pipelines.

HOW TO SERVICE

By installing a new seat-disc assembly you can bring the steam trap to the "as new from factory" condition. This operation is carried out in a few minutes without removing steam trap from the pipeline. Remove insulating cap if fitted and unscrew cover(2) and remove disc(4), seat(3) and clean the inside of the trap. When re-assembling the disc is normally placed in position with the grooved side in contact with the seat. Screw on cover(2) using a high temperature grease. To service the strainer cap(8), withdraw screen(5) and clean or replace it. When servicing the trap always fit the new gasket.

How to order: i.e. *DC 50 /A A 105 ½" 150 RF*

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DOUGLAS ITALIA S.P.A.

THERMODYNAMIC STEAM TRAPS

DC 50 F 304

THERMODYNAMIC

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area (Bernulli Law) under the disc which draws it towards the seat.

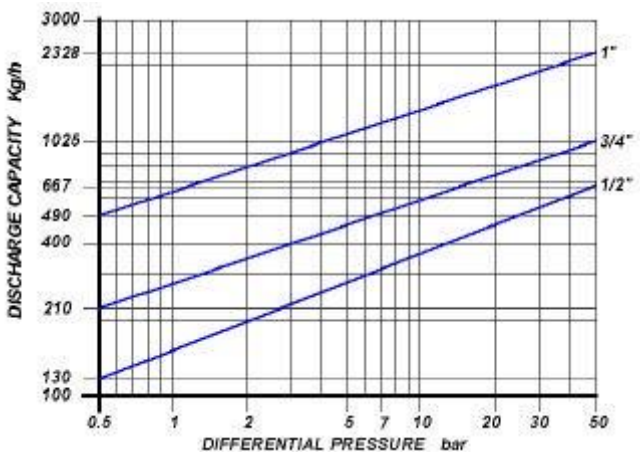
MAIN FEATURES

Reduced dimension and wheigt simple and reliable. It discharges air. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.

APPLICATIONS

- *Ironing machines*
- *Steam mains*
- *Tracing lines*
- *Turbines*
- *Marine applications*
- *Presses*

DISCHARGE CAPACITY



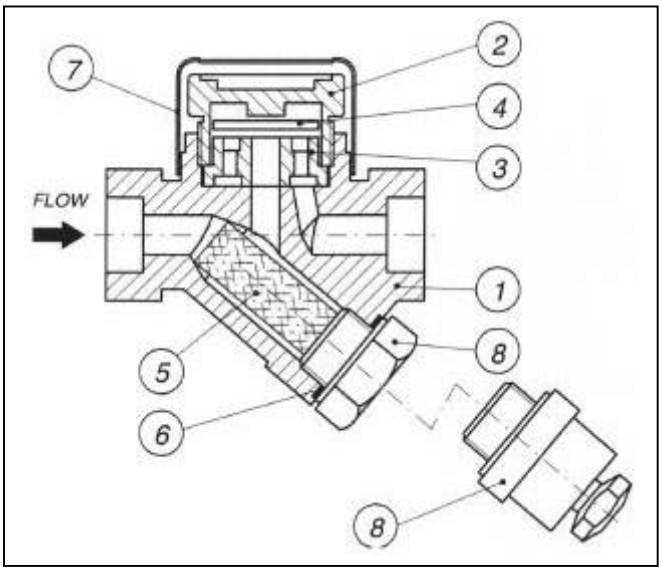
Cold water capacities are 2 to 4 times greater than the above .
Safety factor = 1.2 – 1.5

SIZES
½" – ¾" – 1"

CONNECTIONS	
Screwed	ANSI B1.20.1 (NPT) / BS21 (BSP)
Socket Welding	ANSI B16.11
Flanged	ANSI 150#/300#/600#/UNI/DIN

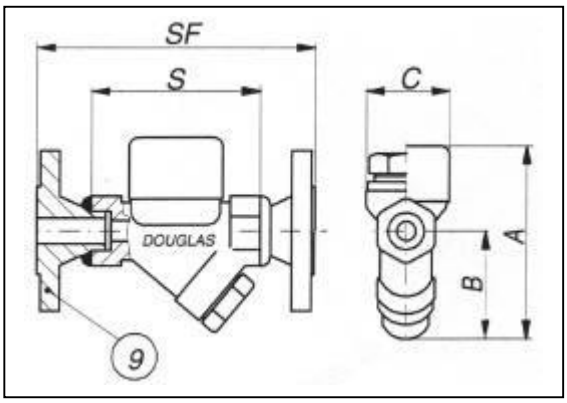
LIMITING CONDITIONS (according to ISO 6552)	
Steam Trap rating	ANSI 600
PMA: Max allowable pressure	100 bar
TMA: max allowable temperature	500°C
PMO: max working pressure	50 bar
TMO: max working temperature	425°C
Minimum Working Pressure	0.25 bar
PMOB: max working back pressure	80%

THERMODYNAMIC STEAM TRAPS
DC 50 F 304



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A182 F304	
2	Cover	AISI 303	
3	Seat	AISI 431	X
4	Disc	AISI 431	X
5	Screen	AISI 304	X
6	Gasket	316/GRAPHITE	X
7	Insulating cap*	AISI 304	
8	Strainer cap	ASTM A182 F304	
8	Blow off valve*	AISI 416	
9	Flange	ASTM A182 F304	
*** optional**			

Flanged													
Size (inches)	S	A	B	C	Weight (Kg)	UNI-DIN PN16-25-40		150#		300#		600#	
						SF	Kg	SF	Kg	SF	Kg	SF	Kg
½"	85	108	55	48	0.8	151	2.4	145	2.2	165	2.4	175	2.5
¾"	100	120	60	54	1.3	170	3.6	170	3	190	4.1	200	4.5
1"	108	130	70	62	3.4	178	5.2	188	4.6	198	5.8	218	6.2



INSTALLATION

The steam trap can be installed in any position, however it should be preferably fitted on horizontal pipelines.

HOW TO SERVICE

By installing a new seat-disc assembly you can bring the steam trap to the "as new from factory" condition. This operation is carried out in a few minutes without removing steam trap from the pipeline. Unscrew cover (2) and remove disc(4), seat(3) and clean the inside of the trap. Put in new parts. Scew on cover(2) using a high temperature grease. To service the strainer unscrew cap(8), withdraw screen(5) and clean or replace it. Screwing cover back in place always fit a new gasket(6).

How to order: i.e. *DC 50 F304 ¾" NPT*

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DOUGLAS ITALIA S.P.A.

THERMODYNAMIC STEAM TRAPS

DC50 F304 ø 1.1/2”

THERMODYNAMIC

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area (Bernulli Law) under the disc which draws it towards the seat.

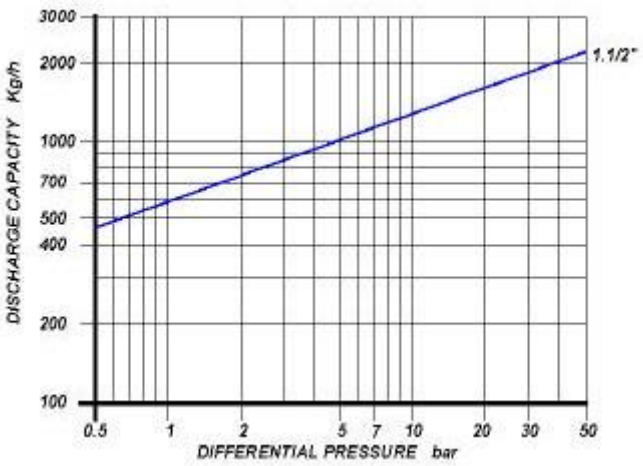
MAIN FEATURES

Reduced dimension and wheigt simple and reliable. It discharges air. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.

APPLICATIONS

- *Ironing machines*
- *Steam mains*
- *Tracing lines*
- *Turbines*
- *Marine applications*
- *Presses*

DISCHARGE CAPACITY



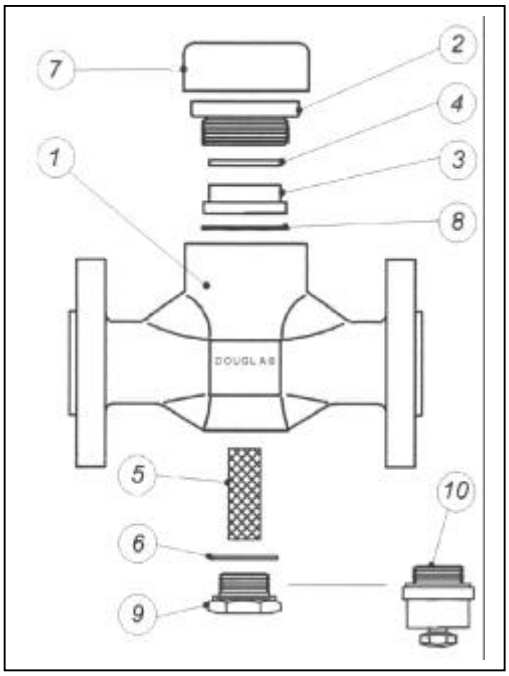
Cold water capacities are 2 to 4 times greater than the above .
Safety factor = 1.2 – 1.5

SIZES
1½”

CONNECTIONS	
Screwed	ANSI B1.20.1 (NPT) / BS21 (BSP)
Socket Welding	ANSI B16.11
Flanged	ANSI 150#/300#/600#/UNI/DIN

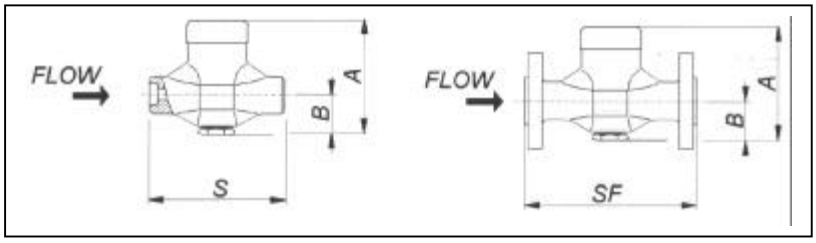
LIMITING CONDITIONS (according to ISO 6552)	
Steam Trap rating	ANSI 600
PMA: Max allowable pressure	100 bar
TMA: max allowable temperature	500°C
PMO: max working pressure	50 bar
TMO: max working temperature	425°C
Minimum Working Pressure	0.25 bar
PMOB: max working back pressure	80%

THERMODYNAMIC STEAM TRAPS
DC 50 F 304 ø 1.1/2”



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	A 105	
2	Cover	AISI 303	
3	Seat	AISI 431 HT	X
4	Disc	AISI 431 HT	X
5	Screen	AISI 304	X
6	Gasket	316 / GRAPHITE	X
7	Insulating cap *	AISI 304	X
8	Gasket	Reinforced graphite	X
9	Strainer cap	AISI 105	X
10	Blow – off valve *	AISI 416	X
*** optional**			

					Flanged							
Size (inches)	S	A	B	Weight (Kg)	UNI-DIN PN16-25-40		150#		300#		600#	
					SF	Kg	SF	Kg	SF	Kg	SF	Kg
1½”	125	130	50	3.5	205	6	215	6.5	225	9.5	245	10.5



INSTALLATION

The steam trap can be installed in any position, however it should be preferably fitted on horizontal pipelines.

HOW TO SERVICE

By installing a new seat-disc assembly you can bring the steam trap to the “as new from factory” condition. This operation is carried out in a few minutes without removing steam trap from the pipeline. Unscrew cover (2) and remove disc (4), seat (3) and gasket (4)and clean the inside of the trap. Put in new part aligning the gasket hole with the hole inthe trap body. Screw on cover (2) using a high temperature grease. To service the strainer unsrew plug (9), withdraw screen (5) and clean or replace it. Screwing cover back in place always fit a new gasket (6).

How to order: i.e. *DC 50 F 304 1½” NPT*

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DOUGLAS ITALIA S.P.A.

THERMODYNAMIC STEAM TRAPS

DC50 F304 ø 2”

THERMODYNAMIC

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area (Bernulli Law) under the disc which draws it towards the seat.

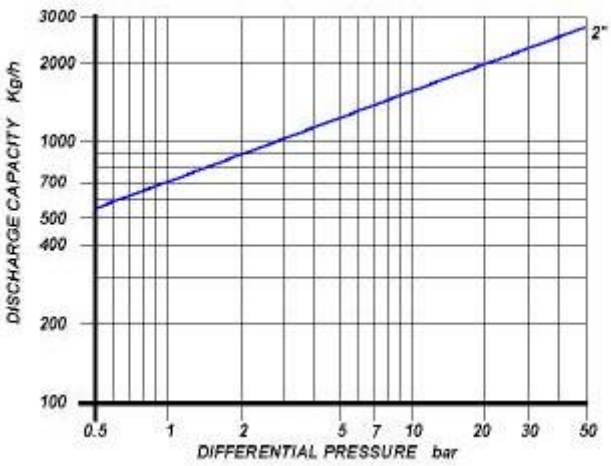
MAIN FEATURES

Reduced dimension and wheigt simple and reliable. It discharges air. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.

APPLICATIONS

- *Ironing machines*
- *Steam mains*
- *Tracing lines*
- *Turbines*
- *Marine applications*
- *Presses*

DISCHARGE CAPACITY



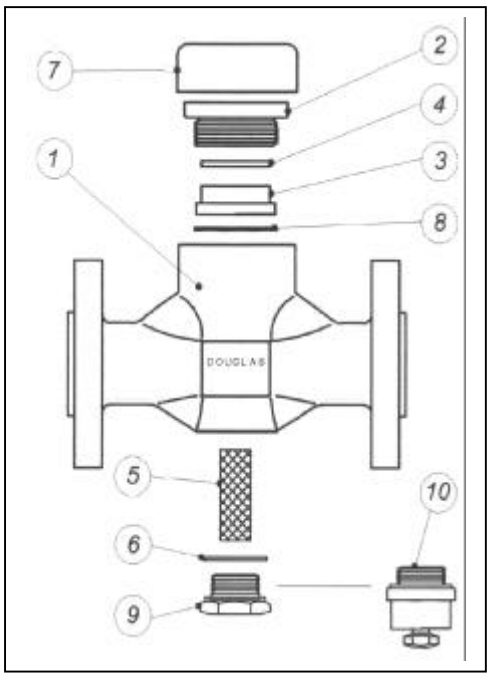
Cold water capacities are 2 to 4 times greater than the above . Safety factor = 1.2 – 1.5

SIZES
2”

CONNECTIONS	
Screwed	*ANSI B1.20.1 (NPT) / BS21 (BSP)*
Socket Welding	*ANSI B16.11*
Flanged	*ANSI 150#/300#/600#/UNI/DIN*

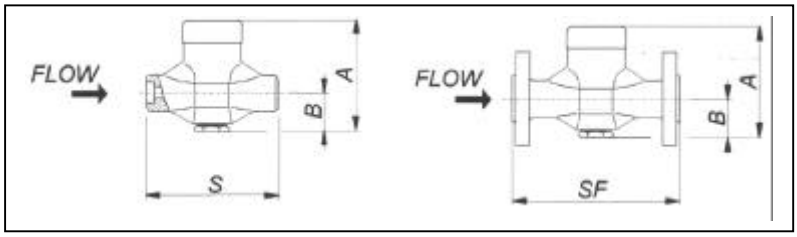
LIMITING CONDITIONS (according to ISO 6552)	
Steam Trap rating	*ANSI 600*
PMA: Max allowable pressure	*100 bar*
TMA: max allowable temperature	*500°C*
PMO: max working pressure	*50 bar*
TMO: max working temperature	*425°C*
Minimum Working Pressure	*0.25 bar*
PMOB: max working back pressure	*80%*

THERMODYNAMIC STEAM TRAPS
DC 50 F 304 ø 2”



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	A 105	
2	Cover	AISI 303	
3	Seat	AISI 431 HT	X
4	Disc	AISI 431 HT	X
5	Screen	AISI 304	X
6	Gasket	316 / GRAPHITE	X
7	Insulating cap *	AISI 304	X
8	Gasket	Reinforced graphite	X
9	Strainer cap	AISI 105	X
10	Blow – off valve *	AISI 416	X
*** optional**			

					Flanged							
Size (inches)	S	A	B	Weight (Kg)	UNI-DIN PN16-25-40		150#		300#		600#	
					SF	Kg	SF	Kg	SF	Kg	SF	Kg
2”	130	130	50	4.3	225	6.4	256	8	269	10	288	11.2



INSTALLATION

The steam trap can be installed in any position, however it should be preferably fitted on horizontal pipelines.

HOW TO SERVICE

By installing a new seat-disc assembly you can bring the steam trap to the “as new from factory” condition. This operation is carried out in a few minutes without removing steam trap from the pipeline. Unscrew cover (2) and remove disc (4), seat (3) and gasket (4)and clean the inside of the trap. Put in new part aligning the gasket hole with the hole inthe trap body. Screw on cover (2) using a high temperature grease. To service the strainer unsrew plug (9), withdraw screen (5) and clean or replace it. Screwing cover back in place always fit a new gasket (6).

How to order: i.e. *DC 50 F 304 2” NPT*

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DOUGLAS ITALIA S.P.A.

THERMODYNAMIC STEAM TRAPS
LOW CAPACITIES
DC 50L F 304

THERMODYNAMIC

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area (Bernulli Law) under the disc which draws it towards the seat.

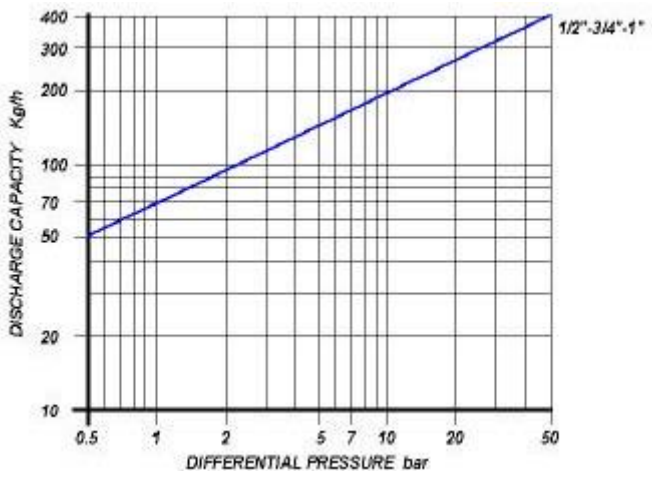
MAIN FEATURES

Reduced dimension and wheigt simple and reliable. It discharges air. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.

APPLICATIONS

- *Ironing machines*
- *Steam mains*
- *Tracing lines*
- *Turbines*
- *Marine applications*
- *Presses*

DISCHARGE CAPACITY



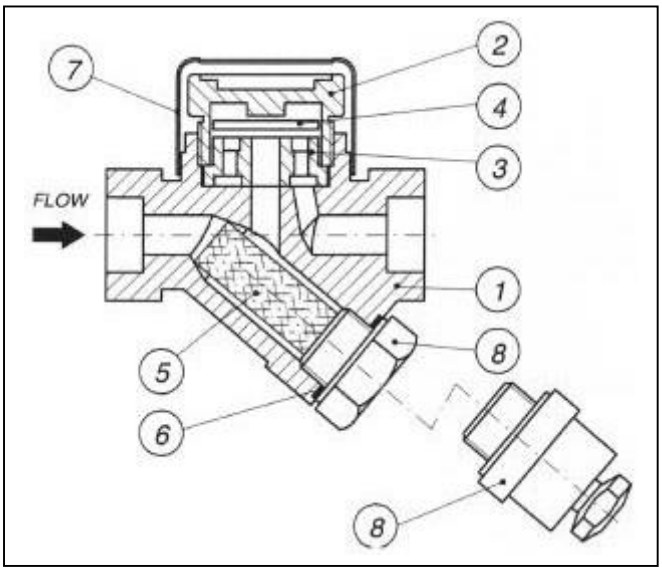
Cold water capacities are 2 to 4 times greater than the above .
Safety factor = 1.2 – 1.5

SIZES
½" – ¾" – 1"

CONNECTIONS	
Screwed	ANSI B1.20.1 (NPT) / BS21 (BSP)
Socket Welding	ANSI B16.11
Flanged	ANSI 150#/300#/600#/UNI/DIN

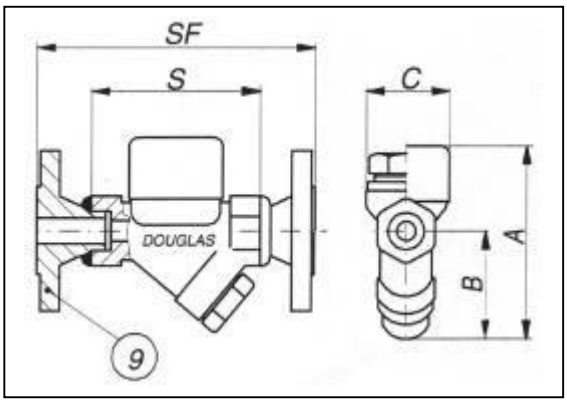
LIMITING CONDITIONS (according to ISO 6552)	
Steam Trap rating	ANSI 600
PMA: Max allowable pressure	100 bar
TMA: max allowable temperature	500°C
PMO: max working pressure	50 bar
TMO: max working temperature	425°C
Minimum Working Pressure	0.25 bar
PMOB: max working back pressure	80%

THERMODYNAMIC STEAM TRAPS LOW CAPACITIES
DC 50L F 304



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A182 F304	
2	Cover	AISI 303	
3	Seat	AISI 431	X
4	Disc	AISI 431	X
5	Screen	AISI 304	X
6	Gasket	316/GRAPHITE	X
7	Insulating cap*	AISI 304	
8	Strainer cap	ASTM A182 F304	
8	Blow off valve*	AISI 416	
9	Flange	ASTM A182 F304	
*** optional**			

Flanged													
Size (inches)	S	A	B	C	Weight (Kg)	UNI-DIN PN16-25-40		150#		300#		600#	
						SF	Kg	SF	Kg	SF	Kg	SF	Kg
½"	85	108	55	48	0.8	151	2.4	145	2.2	165	2.4	175	2.5
¾"	100	120	60	54	1.3	170	3.6	170	3	190	4.1	200	4.5
1"	108	130	70	62	3.4	178	5.2	188	4.6	198	5.8	218	6.2



INSTALLATION

The steam trap can be installed in any position, however it should be preferably fitted on horizontal pipelines.

HOW TO SERVICE

By installing a new seat-disc assembly you can bring the steam trap to the "as new from factory" condition. This operation is carried out in a few minutes without removing steam trap from the pipeline. Unscrew cover (2) and remove disc(4), seat(3) and clean the inside of the trap. Put in new parts. Scew on cover(2) using a high temperature grease. To service the strainer unscrew cap(8), withdraw screen(5) and clean or replace it. Screwing cover back in place always fit a new gasket(6).

How to order: i.e. *DC 50L F304 ¾" NPT*

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DOUGLAS ITALIA S.P.A.

THERMODYNAMIC STEAM TRAPS

DC 50/A F 304

THERMODYNAMIC

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area (Bernulli Law) under the disc which draws it towards the seat.

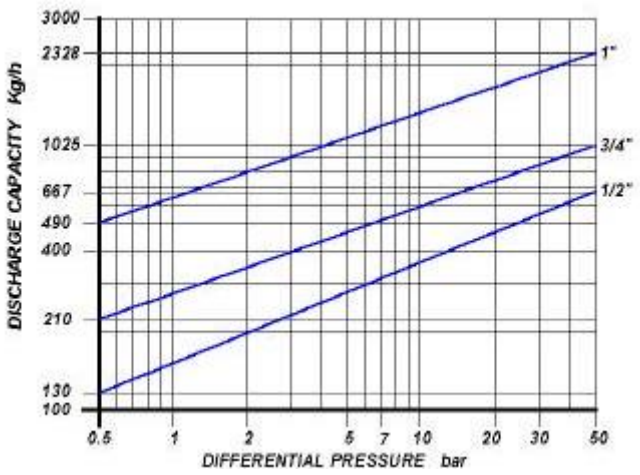
MAIN FEATURES

Reduced dimension and wheigt simple and reliable. ***Special air venting disc****. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.*

APPLICATIONS

- *Ironing machines*
- *Steam mains*
- *Tracing lines*
- *Turbines*
- *Marine applications*
- *Presses*

DISCHARGE CAPACITY



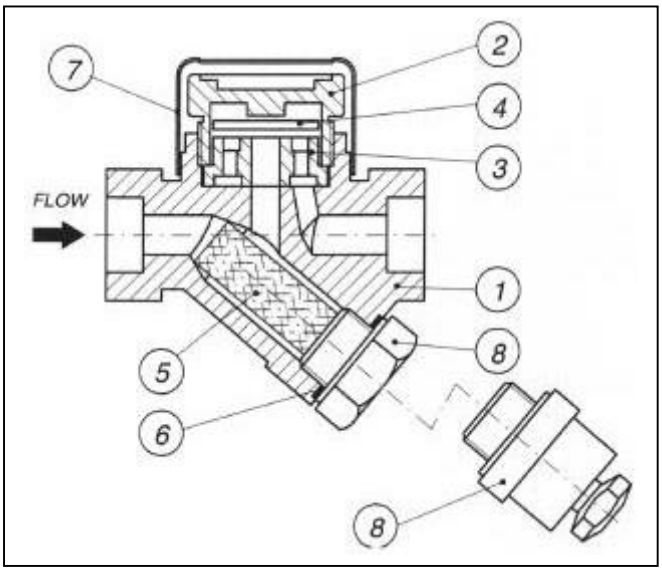
Cold water capacities are 2 to 4 times greater than the above . Safety factor = 1.2 – 1.5

SIZES
½" – ¾" – 1"

CONNECTIONS	
Screwed	ANSI B1.20.1 (NPT) / BS21 (BSP)
Socket Welding	ANSI B16.11
Flanged	ANSI 150#/300#/600#/UNI/DIN

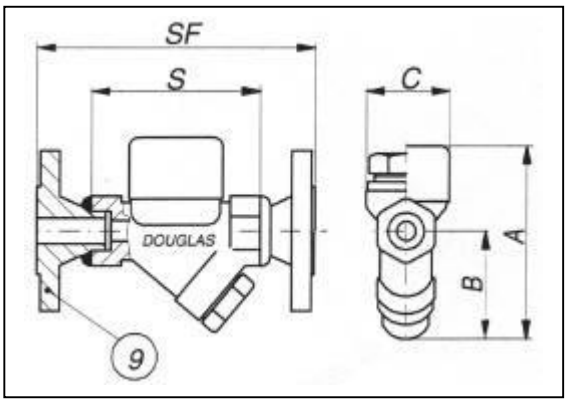
LIMITING CONDITIONS (according to ISO 6552)	
Steam Trap rating	ANSI 600
PMA: Max allowable pressure	100 bar
TMA: max allowable temperature	500°C
PMO: max working pressure	50 bar
TMO: max working temperature	425°C
Minimum Working Pressure	0.25 bar
PMOB: max working back pressure	80%

THERMODYNAMIC STEAM TRAPS
DC 50/A F 304



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A182 F304	
2	Cover	AISI 303	
3	Seat	AISI 431	X
4	Disc	AISI 431	X
5	Screen	AISI 304	X
6	Gasket	316/GRAPHITE	X
7	Insulating cap*	AISI 304	
8	Strainer cap	ASTM A182 F304	
8	Blow off valve*	AISI 416	
9	Flange	ASTM A182 F304	
*** optional**			

						Flanged							
Size (inches)	S	A	B	C	Weight (Kg)	UNI-DIN PN16-25-40		150#		300#		600#	
						SF	Kg	SF	Kg	SF	Kg	SF	Kg
½"	85	108	55	48	0.8	151	2.4	145	2.2	165	2.4	175	2.5
¾"	100	120	60	54	1.3	170	3.6	170	3	190	4.1	200	4.5
1"	108	130	70	62	3.4	178	5.2	188	4.6	198	5.8	218	6.2



INSTALLATION

The steam trap can be installed in any position, however it should be preferably fitted on horizontal pipelines.

HOW TO SERVICE

By installing a new seat-disc assembly you can bring the steam trap to the "as new from factory" condition. This operation is carried out in a few minutes without removing steam trap from the pipeline. Remove insulating cap if fitted and unscrew cover(2) and remove disc(4), seat(3) and clean the inside of the trap. When re-assembling the disc is normally placed in position with the grooved side in contact with the seat. Screw on cover(2) using a high temperature grease. To service the strainer cap(8), withdraw screen(5) and clean or replace it. When servicing the trap always fit the new gasket.

How to order: i.e. *DC 50 /A F304 ¾" NPT*

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DOUGLAS ITALIA S.P.A.

THERMODYNAMIC STEAM TRAPS

DK 100 A105

THERMODYNAMIC

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area (Bernulli Law) under the disc which draws it towards the seat.

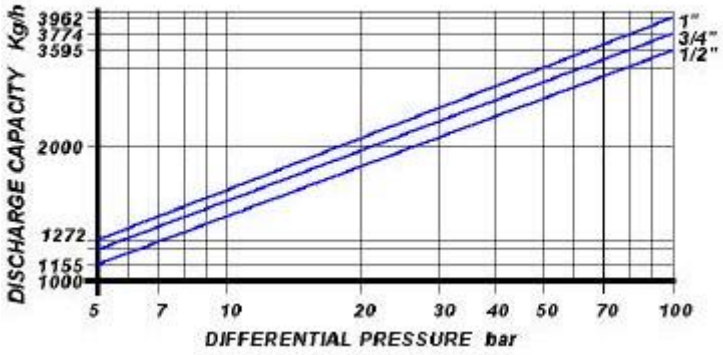
MAIN FEATURES

Reduced dimension and wheigt simple and reliable. It discharges air. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.

APPLICATIONS

- *Ironing machines*
- *Steam mains*
- *Tracing lines*
- *Turbines*
- *Marine applications*
- *Presses*

DISCHARGE CAPACITY



Cold water capacities are 2 to 4 times greater than the above .
Safety factor = 1.2 – 1.5

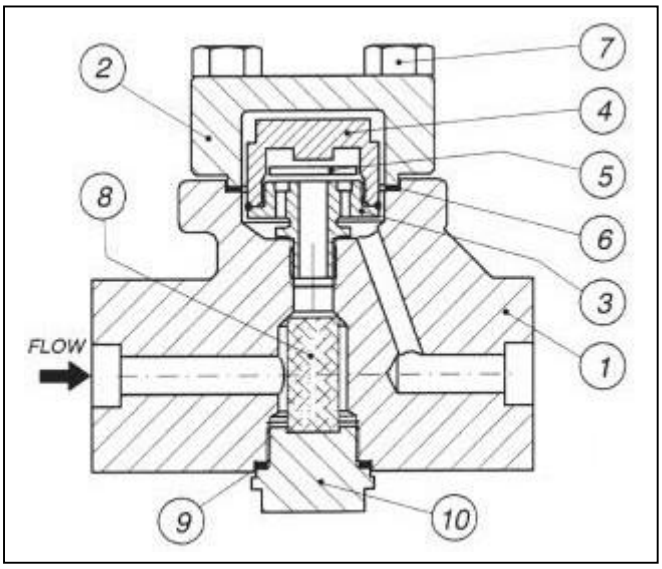
SIZES
½" – ¾" - 1

CONNECTIONS	
SCREWED	ANSI B 1.20.1 (NPT)
BUTTWELD	ANSI B 16.25
SOCKET WELD	ANSI B 16.11
FLANGED	ANSI 600#/1500#/UNI/DIN

LIMITING CONDITIONS (according to ISO 6552)	
Steam Trap rating	1500
PMA: Max allowable pressure	230 bar
TMA: max allowable temperature	400°C
PMO: max working pressure	100 bar
TMO: max working temperature	400°C
Minimum Working Pressure	5 bar
PMOB: max working back pressure	80%

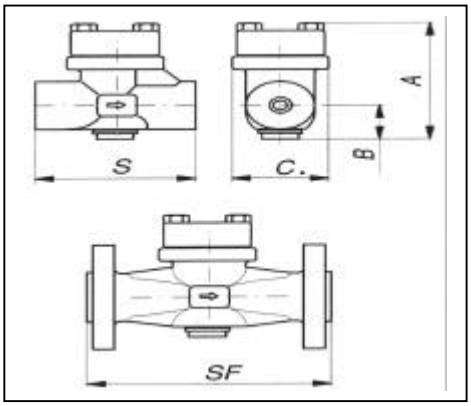
THERMODYNAMIC STEAM TRAPS

DK 100 A105



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A 105	
2	Cover	ASTM A105	
3	Seat	AISI 421	X
4	Cover seat	AISI 431	X
5	Disc	AIS 431	X
6	Gasket	316 / GRAPHITE	X
7	Bolts	ASTM A194 B7	
8	Screen	AISI 304	X
9	Gasket	316 / GRAPHITE	X
10	Strainer cap	ASTM A105	

						Flanged					
Size (inches)	S	A	B	C	Weight (Kg)	UNI-DIN PN 40 - 100		600#		1500#	
						SF	Kg	SF	Kg	SF	Kg
½"	155	150	48	94	7	242	9	242	8.5	242	11.3
¾"	155	150	48	94	7	242	11	242	9.2	242	12.5
1"	155	150	48	94	7	242	12.2	242	11.2	242	15



INSTALLATION

The steam trap can be installed in any position, however it should be preferably fitted on horizontal pipelines.

HOW TO SERVICE

By installing a new seat-disc assembly you can bring the steam trap to the "as new from factory" condition. This operation is carried out in a few minutes without removing steam trap from the pipeline. Remove cover(2),unscrew seat-disc assembly and clean the inside of the body. Screw in the new assembly (3-4-5),replace body,cover,gasket (6) and reassemble cover. To service the strainer unscrew the relevant cap (10) and clean or replace the screen. Screwing the cap back always fit a new gasket (9).

How to order: i.e. *DK 100 1" SW A105*

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DOUGLAS ITALIA S.P.A.

THERMODYNAMIC STEAM TRAPS
DK 100 F22

THERMODYNAMIC

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area (Bernulli Law) under the disc which draws it towards the seat.

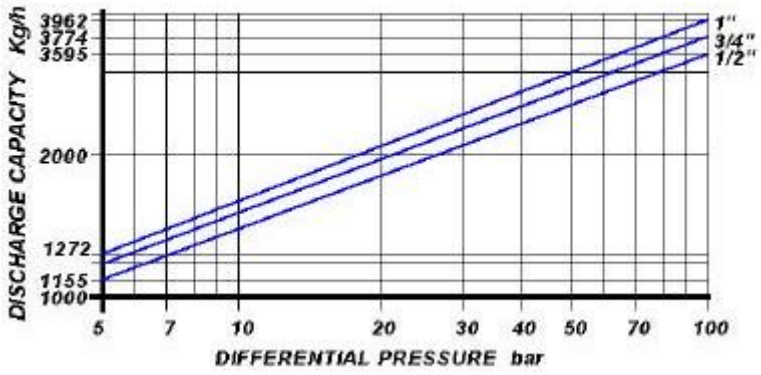
MAIN FEATURES

Reduced dimension and wheigt simple and reliable. It discharges air. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.

APPLICATIONS

- *Ironing machines*
- *Steam mains*
- *Tracing lines*
- *Turbines*
- *Marine applications*
- *Presses*

DISCHARGE CAPACITY



Cold water capacities are 2 to 4 times greater than the above .
Safety factor = 1.2 – 1.5

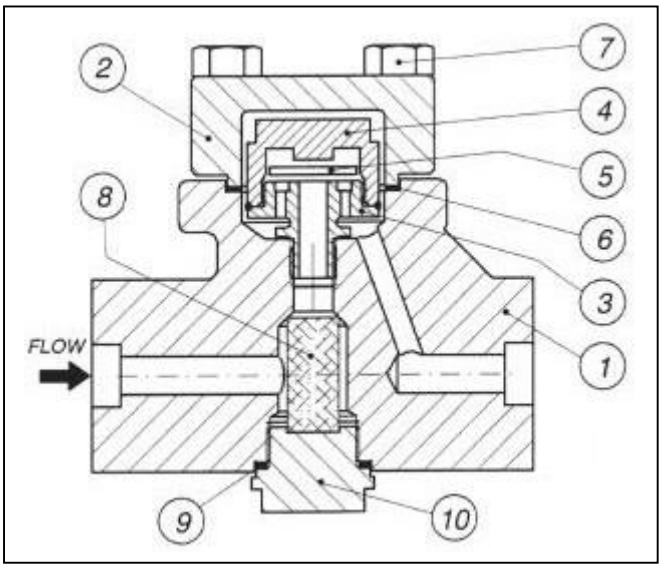
SIZES
½" – ¾" - 1

CONNECTIONS	
SCREWED	ANSI B 1.20.1 (NPT)
BUTTWELD	ANSI B 16.25
SOCKET WELD	ANSI B 16.11
FLANGED	ANSI 600#/1500#/UNI/DIN

LIMITING CONDITIONS (according to ISO 6552)	
Steam Trap rating	1500
PMA: Max allowable pressure	260 bar
TMA: max allowable temperature	510°C
PMO: max working pressure	100 bar
TMO: max working temperature	495°C
Minimum Working Pressure	5 bar
PMOB: max working back pressure	80%

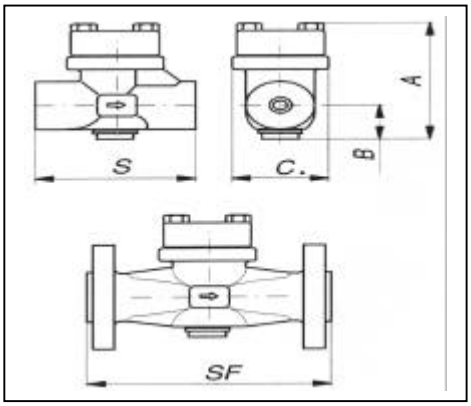
THERMODYNAMIC STEAM TRAPS

DK 100 F22



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A182 F22	
2	Cover	ASTM A182 F22	
3	Seat	AISI 421	X
4	Cover seat	AISI 431	X
5	Disc	AIS 431	X
6	Gasket	316 / GRAPHITE	X
7	Bolts	ASTM A193 B8	
8	Screen	AISI 304	X
9	Gasket	316 / GRAPHITE	X
10	Strainer cap	ASTM A182 F22	

						Flanged					
Size (inches)	S	A	B	C	Weight (Kg)	UNI-DIN PN 40 - 100		600#		1500#	
						SF	Kg	SF	Kg	SF	Kg
½"	155	150	48	94	7	242	9	242	8.5	242	11.3
¾"	155	150	48	94	7	242	11	242	9.2	242	12.5
1"	155	150	48	94	7	242	12.2	242	11.2	242	15



INSTALLATION

The steam trap can be installed in any position, however it should be preferably fitted on horizontal pipelines.

HOW TO SERVICE

By installing a new seat-disc assembly you can bring the steam trap to the "as new from factory" condition. This operation is carried out in a few minutes without removing steam trap from the pipeline. Remove cover(2),unscrew seat-disc assembly and clean the inside of the body. Screw in the new assembly (3-4-5),replace body,cover,gasket (6) and reassemble cover. To service the strainer unscrew the relevant cap (10) and clean or replace the screen. Screwing the cap back always fit a new gasket (9).

How to order: i.e. *DK 100 1" SW F22*

DOUGLAS ITALIA S.p.A Località Pradaglie – 29013 CARPANETO PIACENTINO (PC)

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DOUGLAS ITALIA S.P.A.

THERMODYNAMIC STEAM TRAPS
DK 150 F 22

THERMODYNAMIC

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area (Bernulli Law) under the disc which draws it towards the seat.

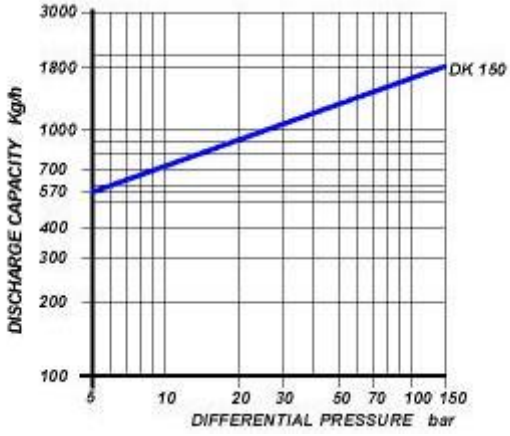
MAIN FEATURES

Reduced dimension and wheigt simple and reliable. It discharges air. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.

APPLICATIONS

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

DISCHARGE CAPACITY



Cold water capacities are 2 to 4 times greater than the above .
Safety factor = 1.2 – 1.5

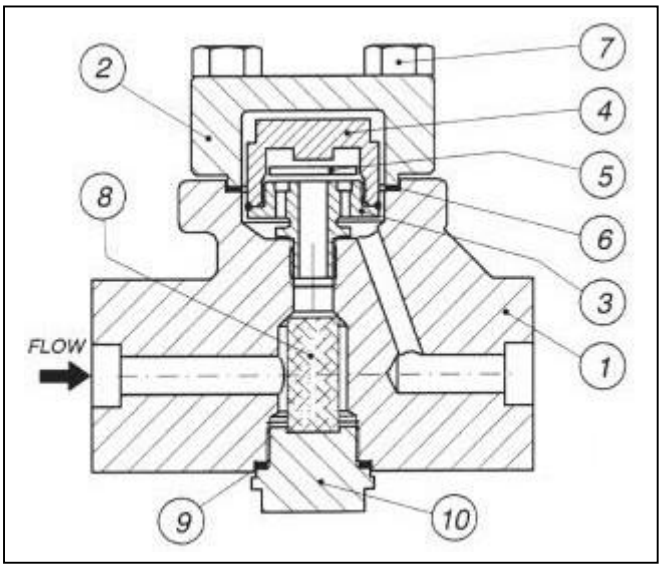
SIZES
½" – ¾" – 1" – 1½"

CONNECTIONS	
BUTTWELD	ANSI B 16.25
SOCKET WELD	ANSI B 16.11
FLANGED (on request)	ANSI B 16.5 (1500)

LIMITING CONDITIONS (according to ISO 6552)	
Steam Trap rating	2500
PMA: Max allowable pressure	430 bar
TMA: max allowable temperature	580°C
PMO: max working pressure	150 bar
TMO: max working temperature	550°C
Minimum Working Pressure	5 bar
PMOB: max working back pressure	80%

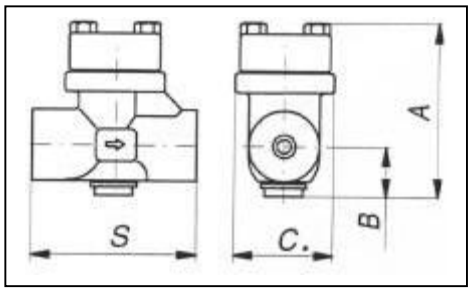
THERMODYNAMIC STEAM TRAPS

DK 150 F 22



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A182 F22	
2	Cover	ASTM A182 F22	
3	Seat	AISI 431	X
4	Cover seat	AISI 431	X
5	Disc	AIS 431	X
6	Gasket	316 / GRAPHITE	X
7	Bolts	ASTM A193 B8	
8	Screen	AISI 304	X
9	Gasket	316 / GRAPHITE	X
10	Strainer cap	ASTM A182 F22	

Size (inches)	S	A	B	C	Weight (Kg)
½"	170	215	72	106	9.5
¾"	170	215	72	106	9.5
1	170	215	72	106	9.5
1½"	170	215	72	106	9.5



INSTALLATION

The steam trap can be installed in any position, however it should be preferably fitted on horizontal pipelines.

HOW TO SERVICE

By installing a new seat-disc assembly you can bring the steam trap to the "as new from factory" condition. This operation is carried out in a few minutes without removing steam trap from the pipeline. Remove cover(2),unscrew seat-disc assembly and clean the inside of the body. Screw in the new assembly (3-4-5),replace body,cover,gasket (6) and reassemble cover. To service the strainer unscrew the relevant cap (10) and clean or replace the screen. Screwing the cap back always fit a new gasket (9).

How to order: i.e. *DK 150 F 22 1" SW*

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DOUGLAS ITALIA S.P.A.

THERMODYNAMIC STEAM TRAPS
DK 150 F304

THERMODYNAMIC

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area (Bernulli Law) under the disc which draws it towards the seat.

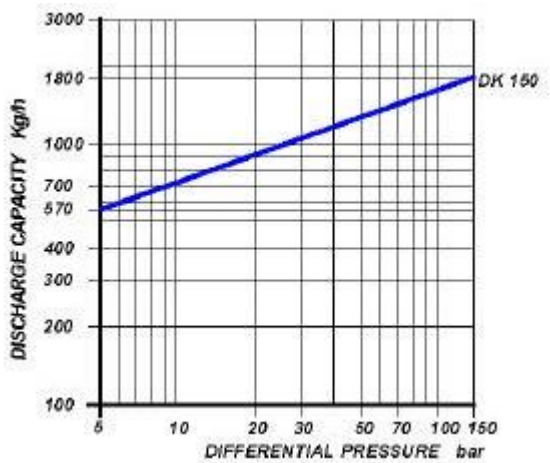
MAIN FEATURES

Reduced dimension and wheigt simple and reliable. It discharges air. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.

APPLICATIONS

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

DISCHARGE CAPACITY



Cold water capacities are 2 to 4 times greater than the above .
Safety factor = 1.2 – 1.5

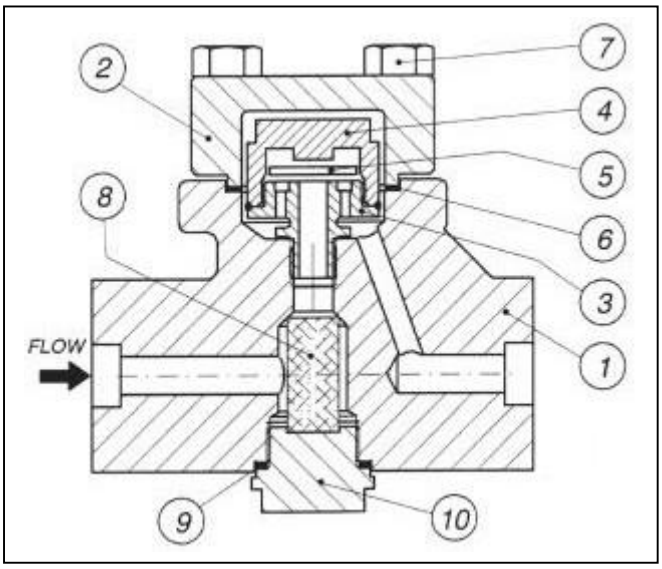
SIZES
½" – ¾" – 1"

CONNECTIONS	
BUTTWELD	ANSI B 16.25
SOCKET WELD	ANSI B 16.11
FLANGED (on request)	ANSI B 16.5 (1500)

LIMITING CONDITIONS (according to ISO 6552)	
Steam Trap rating	2500
PMA: Max allowable pressure	410 bar
TMA: max allowable temperature	580°C
PMO: max working pressure	150 bar
TMO: max working temperature	550°C
Minimum Working Pressure	5 bar
PMOB: max working back pressure	80%

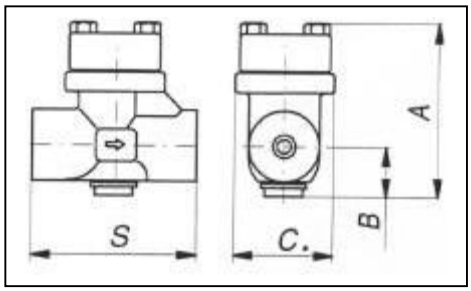
THERMODYNAMIC STEAM TRAPS

DK 150 F304



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A182 F304	
2	Cover	ASTM A182 F304	
3	Seat	AISI 431	X
4	Cover seat	AISI 431	X
5	Disc	AIS 431	X
6	Gasket	S.S 304	X
7	Bolts	ASTM A193 B8	
8	Screen	AISI 304	X
9	Gasket	S.S 304	X
10	Strainer cap	ASTM A182 F304	

						Flanged	
Size (inches)	S	A	B	C	Weight (Kg)	1500#	
						SF	Kg
½"	170	215	72	106	9.5	290	10
¾"	170	215	72	106	9.5	290	10
1"	170	215	72	106	9.5	297	11



INSTALLATION

The steam trap can be installed in any position, however it should be preferably fitted on horizontal pipelines.

HOW TO SERVICE

By installing a new seat-disc assembly you can bring the steam trap to the "as new from factory" condition. This operation is carried out in a few minutes without removing steam trap from the pipeline. Remove cover(2),unscrew seat-disc assembly and clean the inside of the body. Screw in the new assembly (3-4-5),replace body,cover,gasket (6) and reassemble cover. To service the strainer unscrew the relevant cap (10) and clean or replace the screen. Screwing the cap back always fit a new gasket (9).

How to order: i.e. *DK 150 F 304 1" SW*

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