



**DOUGLAS ITALIA**



# **BIMETALLIC THERMOSTATIC STEAM TRAPS**

**BV A105**

**BV F304**

**BF**

**BX 13 F316**

**BB**

**BC 8**

**BC 20**

**BC 30**

**BC 40**

**BD A105**

**BD F11**

**BD 60S F22**

**BD 60 S1**

**BD 80S F11**

**BD 80S F22**

**BX 80 F22**

**BD 100 F22**

**BD 120 A105**

**BD 120 F22**

**BC 20 S1**

**BCS 8 F316**

**BCS 20 F316**

**BCS 30 F316**

**BCS 40 F316**

**BE 8**

**BE 20**

**BE 30**

**BE 40**

**MP**

**MF 8**

**GO BACK**



DOUGLAS ITALIA S.p.A.

**BIMETALLIC THERMOSTATIC  
STEAM TRAPS  
BV A 105**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



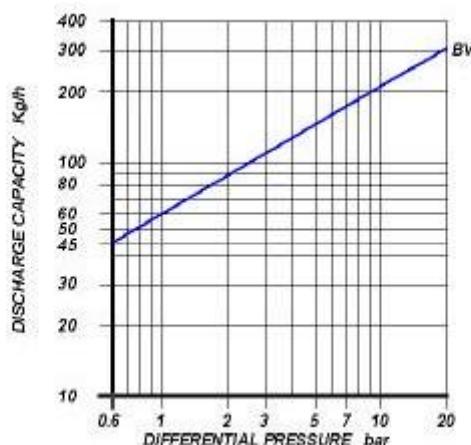
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4"

### CONNECTIONS

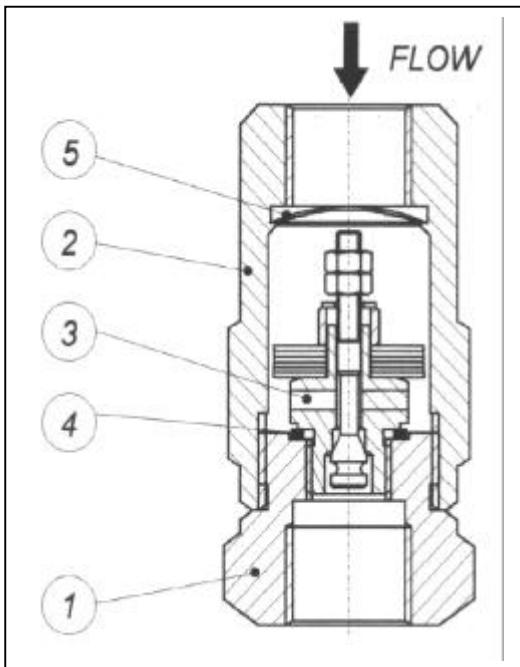
SCREWED      ANSI B1.20.1 (NPT) / BS21 (BSP)

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 300
PMA: Max allowable pressure	50 bar
TMA: max allowable temperature	390°C
PMO: max working pressure	20 bar
TMO: max working temperature	250°C

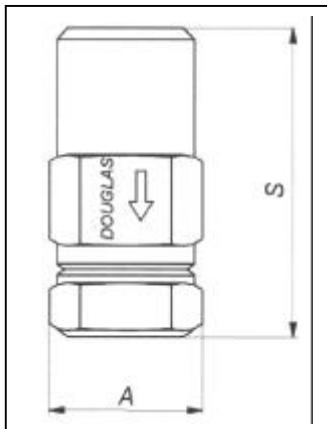
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BV A 105



POS.	DESCRIPTION	MATERIALS	SPARES
1	Outlet body	ASTM A 105	
2	Inlet body	ASTM A 105	
3	Valve assembly	STAINLESS STEEL	X
4	Gasket	AISI 304	X
5	Screen	AISI 304	X

Size (inches)	S	A	Weight (Kg)
1/2"	80	36	0.6
3/4"	93	36	0.8



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. For installation with superheated steam, please contact our Technical Department

#### HOW TO SERVICE

By installing a new element assembly you can bring the BV steam trap to the "as new from factory" condition. This operation is carried out in a few minutes without removing the trap from the pipeline. Unscrew the body (1) (2). Unscrew and remove the valve assembly (3). Clean the inside of the trap fit a new gasket (4) and screw in the new valve assembly (3). Reassemble the bodies (1) (2). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BV 3/4" SW A 105**

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

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DOUGLAS ITALIA S.p.A.

**BIMETALLIC THERMOSTATIC  
STEAM TRAPS  
BV F 304**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



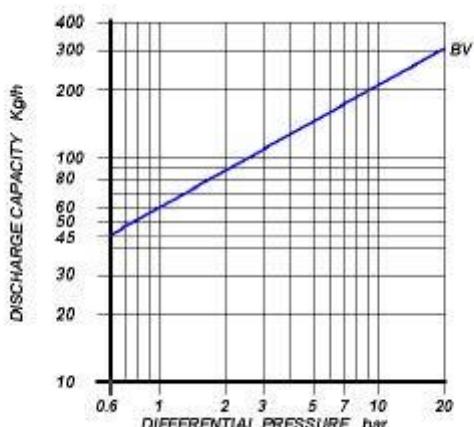
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4"

### CONNECTIONS

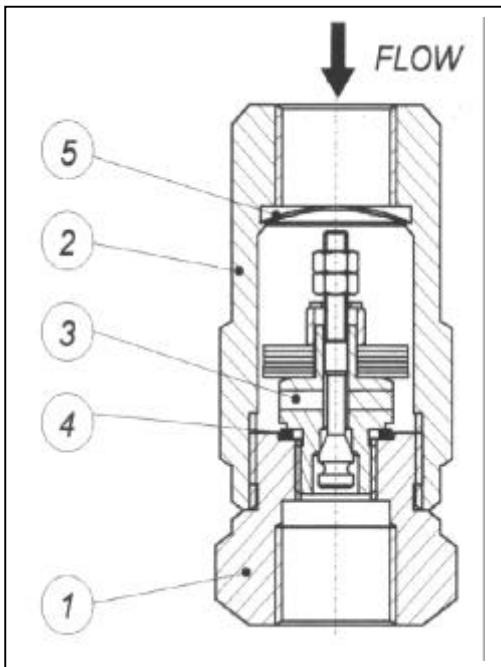
SCREWED      ANSI B1.20.1 (NPT) / BS21 (BSP)

### 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	20 bar
TMO: max working temperature	250°C

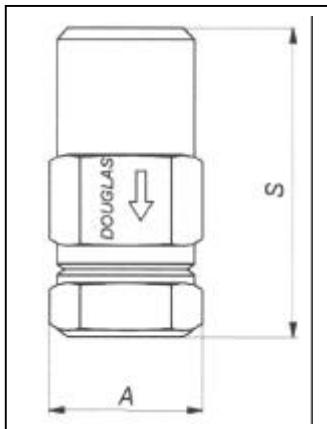
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BV F 304



POS.	DESCRIPTION	MATERIALS	SPARES
1	Outlet body	ASTM A182 F304	
2	Inlet body	ASTM A182 F 304	
3	Valve assembly	STAINLESS STEEL	X
4	Gasket	AISI 304	X
5	Screen	AISI 304	X

Size (inches)	S	A	Weight (Kg)
1/2"	80	36	0.6
3/4"	93	36	0.8



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. For installation with superheated steam, please contact our Technical Department

#### HOW TO SERVICE

By installing a new element assembly you can bring the BV steam trap to the "as new from factory" condition. This operation is carried out in a few minutes without removing the trap from the pipeline. Unscrew the body (1) (2). Unscrew and remove the valve assembly (3). Clean the inside of the trap fit a new gasket (4) and screw in the new valve assembly (3). Reassemble the bodies (1) (2). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BV 3/4" SW F 304**

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DOUGLAS ITALIA S.p.A.

BIMETALLIC THERMOSTATIC

STEAM TRAPS

**BF**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.

### MAIN FEATURES

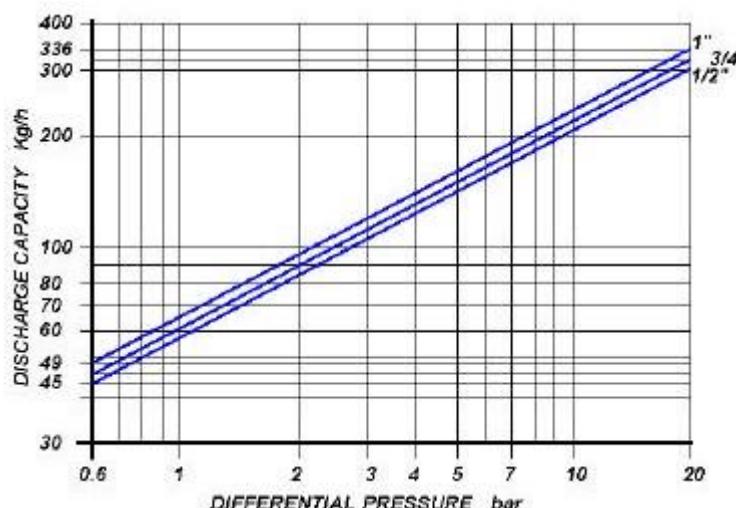
Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.



### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4" – 1"

### CONNECTIONS

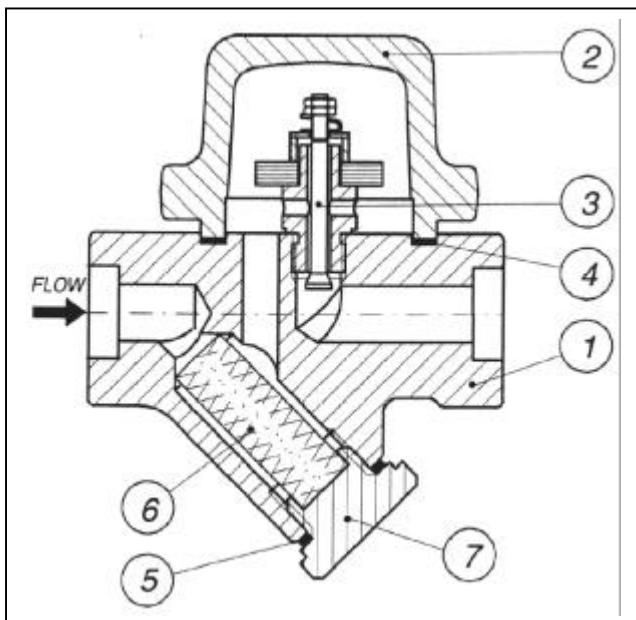
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11
FLANGED	ANSI 150# / 300# / 600# / UNI / DIN

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 300
PMA: Max allowable pressure	50 bar
TMA: max allowable temperature	390°C
PMO: max working pressure	20 bar
TMO: max working temperature	350°C

## BIMETALLIC THERMOSTATIC STEAM TRAPS

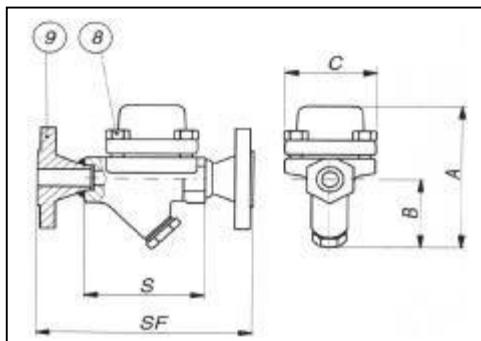
### BF



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A105	
2	Cover	ASTM A105	
3	Valve assembly	STAINLESS STEEL	X
4	Gasket	316 / GRAPHITE	X
5	Gasket	316 / GRAPHITE	X
6	Screen	AISI 304	X
7	Strainer cap	ASTM A105	
7	Blow-off valve *	AISI 416	
8	Bolts	ASTM A193 B7	
9	Flange	ASTM A105	

\* Optional

Size (inches)	S	A	B	C	Weight (Kg)	Flanged		150#		300#		600#	
						UNI-DIN PN16-25-40	SF Kg	SF Kg	Kg	SF Kg	Kg	SF Kg	Kg
1/2"	93	120	60	70	2.5	159	4.1	153	5.7	173	4.1	183	4.3
3/4"	93	120	60	70	2.5	163	4.9	163	4.1	183	5.3	193	5.7
1"	105	130	70	70	3.5	175	6.3	185	3.9	195	6.9	215	7.3



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the directory of flow on vertical lines must be downwards. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BF steam trap to the "as new from factory" condition. This operation is carried out in few minutes without removing the trap from the pipeline. Unscrew the 4 bolts (8) and remove cover (2). Unscrew and remove the element (3). Clean the inside of the trap and screw in the new element assembly. Fit a new gasket (4) and reinstall cover (2) tightening the bolts (8). To service the strainer, unscrew cap (7), withdraw screen (6) and clean or replace it. Screwing the cap back in place, always fit a new gasket (5). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BF 3/4" 300 RF**

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DOUGLAS ITALIA S.p.A.

BIMETALLIC THERMOSTATIC

STEAM TRAPS

**BX 13 F 316**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.

### MAIN FEATURES

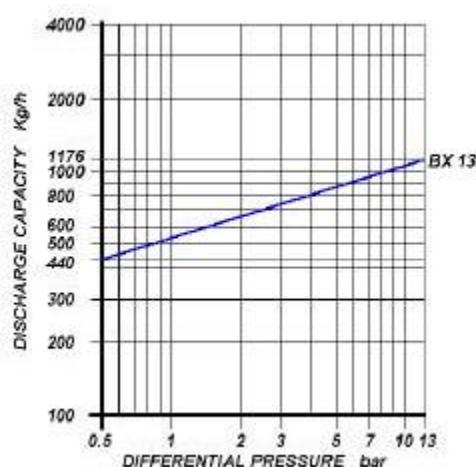
Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.



### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4"

### CONNECTIONS

FLANGED

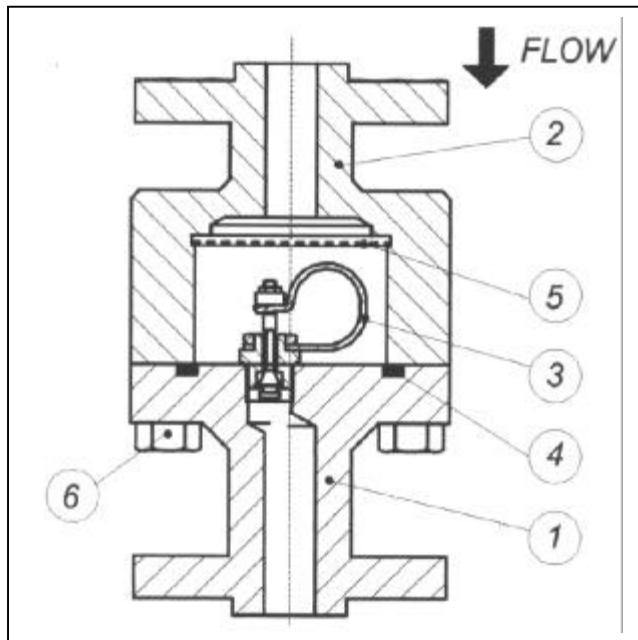
ANSI 150#/300#/600#/UNI/DIN

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 300
PMA: Max allowable pressure	50 bar
TMA: max allowable temperature	390°C
PMO: max working pressure	13 bar
TMO: max working temperature	250°C

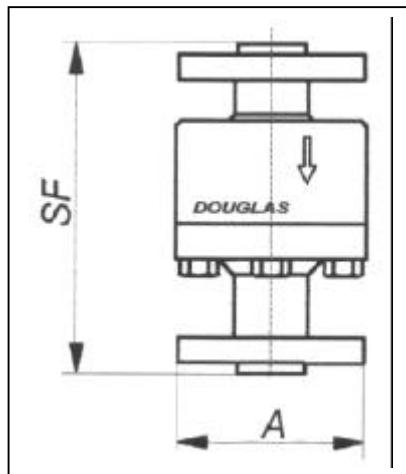
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BX 13 F 316



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A182 F316	
2	Cover	ASTM A182 F316	
3	Valve assembly	STAINLESS STEEL	X
4	Gasket	316 / GRAPHITE	X
5	Screen	AISI 304	X
6	Bolt	ASTM A193 B8	X

Size (inches)	A	Flanged	
		SF	Kg
1/2"	96	200	5
3/4"	118	206	6



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. For installation with superheated steam, please contact our Technical Department

#### HOW TO SERVICE

By installing a new element assembly you can bring the BX 13 F316 steam trap to the "as new from factory" condition. Unscrew the bolts (6) and remove cover (2) and gasket (4). Unscrew and remove the element (3). Clean the inside of the trap, clean screen (5) and screw in the element-gasket assembly. Fit a new gasket (3), fit screen (5) and reinstall cover (2) tightening the bolts (6).

**How to order: i.e. BX 13 F316 3/4" 300 RF**

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DOUGLAS ITALIA S.p.A.

BIMETALLIC THERMOSTATIC

STEAM TRAPS

**BB**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.

### MAIN FEATURES

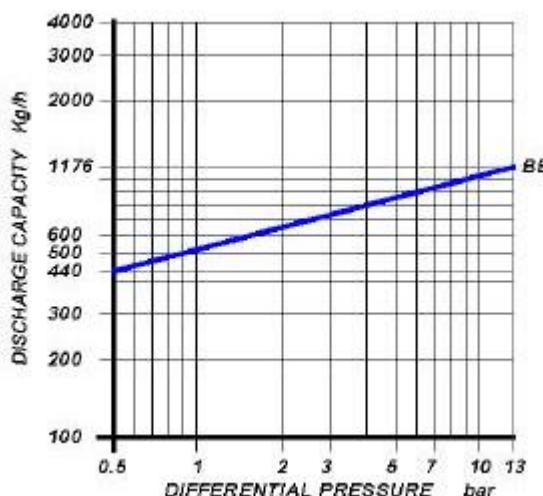
Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.



### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4"

### CONNECTIONS

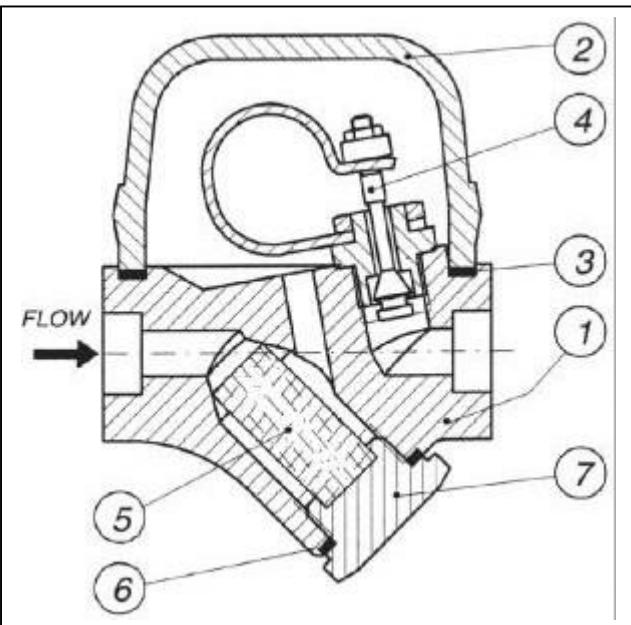
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11
FLANGED	ANSI 150#/300#/600#/UNI/DIN

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 300
PMA: Max allowable pressure	50 bar
TMA: max allowable temperature	390°C
PMO: max working pressure	13 bar
TMO: max working temperature	250°C

## BIMETALLIC THERMOSTATIC STEAM TRAPS

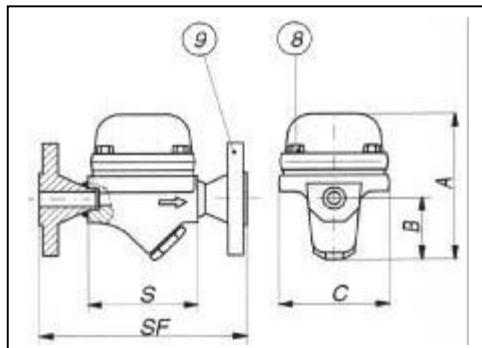
# BB



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A105	
2	Cover	ASTM A105	
3	Gasket	316 / GRAPHITE	X
4	Valve assembly	STAINLESS STEEL	X
5	Screen	AISI 304	X
6	Gasket	316 / GRAPHITE	X
7	Strainer cap	ASTM A105	
7	Blow-off valve *	AISI 416	
8	Bolts	ASTM A193 B7	
9	Flange	ASTM A105	

\* Optional

Size (inches)	Flanged										
	UNI-DIN PN16-25-40		150#		300#		600#				
	S	A	B	C	Weight (Kg)	SF	Kg	SF	Kg	SF	Kg
1/2"	100	150	55	100	3.8	166	5.4	160	5.2	180	5.4
3/4"	100	150	55	100	3.8	170	6.1	170	5.4	190	6.6



### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the directory of flow on vertical lines must be downwards. For installation with superheated steam, please contact our Technical Department.

### HOW TO SERVICE

By installing a new element assembly you can bring the BB steam trap to the "as new from factory" condition. Unscrew the 4 bolts (8) and remove cover (2) and gasket (3). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (3) and reinstall cover (2) tightening the bolts (8). To service the strainer, unscrew cap (7), withdraw screen (5) and clean or replace it. Screwing the cap back in place, always fit a new gasket (6). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BB 3/4" 300 RF**

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DOUGLAS ITALIA S.p.A.

BIMETALLIC THERMOSTATIC

STEAM TRAPS

**BC 8**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.

### MAIN FEATURES

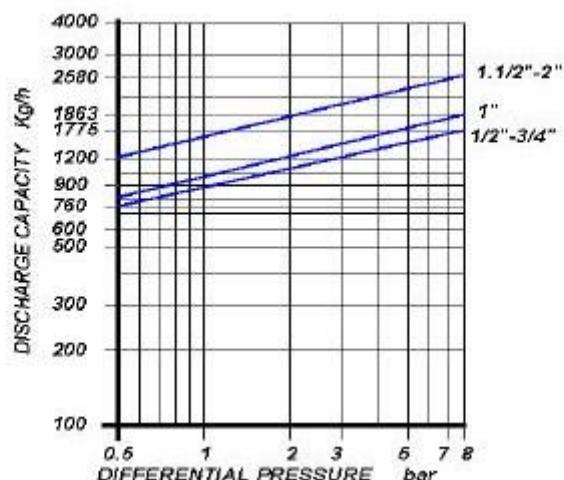
Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.



### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4" – 1" – 1. 1/2" – 2"

### CONNECTIONS

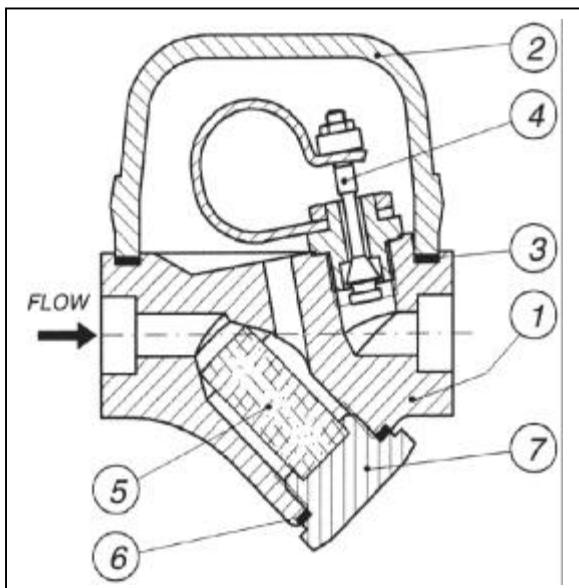
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11
FLANGED	ANSI 150# / 300# / 600# / UNI / DIN

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 300
PMA: Max allowable pressure	50 bar
TMA: max allowable temperature	390°C
PMO: max working pressure	8 bar
TMO: max working temperature	250°C

## BIMETALLIC THERMOSTATIC STEAM TRAPS

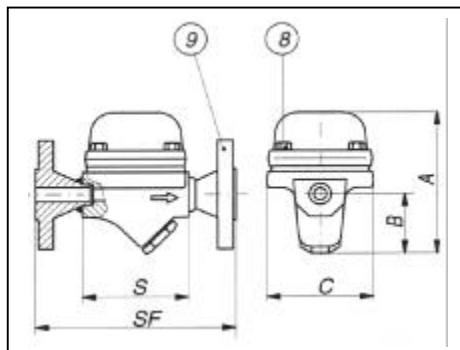
### BC 8



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A105	
2	Cover	ASTM A105	
3	Gasket	316 / GRAPHITE	X
4	Valve assembly	STAINLESS STEEL	X
5	Screen	AISI 304	X
6	Gasket	316 / GRAPHITE	X
7	Strainer cap	ASTM A105	
7	Blow-off valve *	AISI 416	
8	Bolts	ASTM A193 B7	
9	Flange	ASTM A105	

\* Optional

Size (inches)	S	A	B	C	Weight (Kg)	UNI-DN PN16-25-40		150#		300#		600#	
						SF	Kg	SF	Kg	SF	Kg	SF	Kg
1/2"	100	150	55	100	3.8	166	5.4	160	5.2	180	5.4	190	5.6
3/4"	100	150	55	100	3.8	170	6.1	170	5.4	190	6.6	200	7
1"	120	160	65	100	4.5	190	7.3	200	6.7	210	7.9	230	8.3
1 1/2""	160	205	80	170	13	240	17	250	16	260	19.4	280	20.2
2"	160	205	80	170	13	246	19	250	18.5	260	20.2	280	22.4



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the direction of flow on vertical lines must be downwards. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BC steam trap to the "as new from factory" condition. Unscrew the bolts (8) and remove cover (2) and gasket (3). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (3) and reinstall cover (2) tightening the bolts (8). To service the strainer, unscrew cap (7), withdraw screen (5) and clean or replace it. Screwing the cap back in place, always fit a new gasket (6). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BC 20 1" 150 RF**

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DOUGLAS ITALIA S.p.A.

**BIMETALLIC THERMOSTATIC  
STEAM TRAPS  
BC 20**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.

### MAIN FEATURES

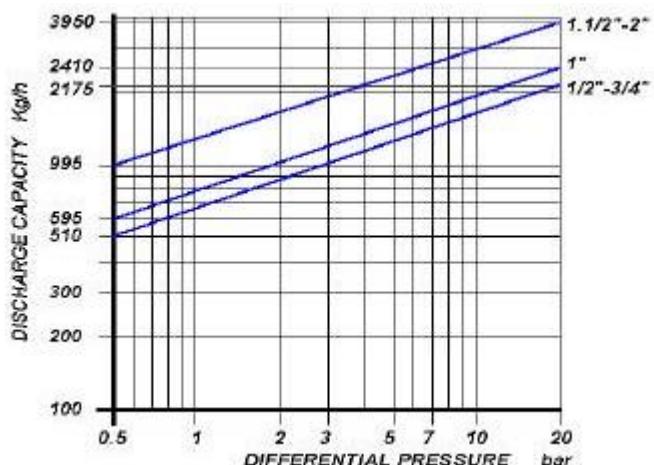
Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.



### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4" – 1" – 1. 1/2" – 2"

### CONNECTIONS

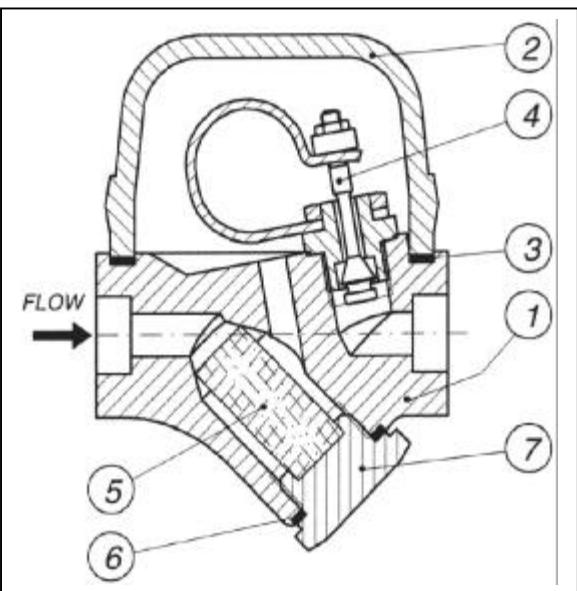
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11
FLANGED	ANSI 150#/300#/600#/UNI/DIN

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 300
PMA: Max allowable pressure	50 bar
TMA: max allowable temperature	390°C
PMO: max working pressure	20 bar
TMO: max working temperature	275°C

## BIMETALLIC THERMOSTATIC STEAM TRAPS

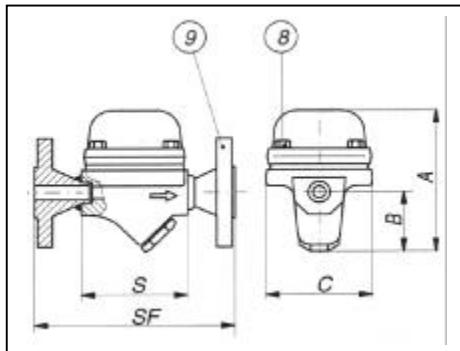
### BC 20



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A105	
2	Cover	ASTM A105	
3	Gasket	316 / GRAPHITE	X
4	Valve assembly	STAINLESS STEEL	X
5	Screen	AISI 304	X
6	Gasket	316 / GRAPHITE	X
7	Strainer cap	ASTM A105	
7	Blow-off valve *	AISI 416	
8	Bolts	ASTM A193 B7	
9	Flange	ASTM A105	

\* Optional

Size (inches)	Flanged											
	UNI-DN PN16-25-40		150#		300#		600#					
	S	A	B	C	Weight (Kg)	SF	Kg	SF	Kg	SF	Kg	
1/2"	100	150	55	100	3.8	166	5.4	160	5.2	180	5.4	
3/4"	100	150	55	100	3.8	170	6.1	170	5.4	190	6.6	
1"	120	160	65	100	4.5	190	7.3	200	6.7	210	7.9	
1 1/2""	160	205	80	170	13	240	17	250	16	260	19.4	
2"	160	205	80	170	13	246	19	250	18.5	260	20.2	
											280	22.4



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the direction of flow on vertical lines must be downwards. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BC steam trap to the "as new from factory" condition. Unscrew the bolts (8) and remove cover (2) and gasket (3). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (3) and reinstall cover (2) tightening the bolts (8). To service the strainer, unscrew cap (7), withdraw screen (5) and clean or replace it. Screwing the cap back in place, always fit a new gasket (6). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BC 20 1" 150 RF**

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

**OFFICIAL WEB SITE:** [www.douglas-italia.com](http://www.douglas-italia.com)



DOUGLAS ITALIA S.p.A.

**BIMETALLIC THERMOSTATIC  
STEAM TRAPS  
BC 30**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.

### MAIN FEATURES

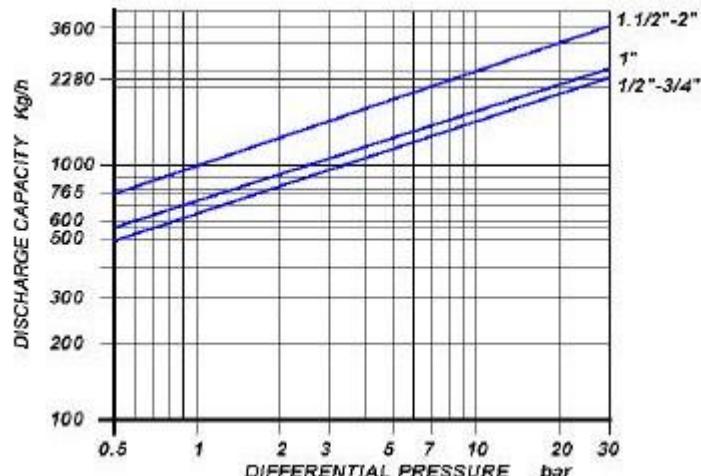
Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.



### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4" – 1" – 1. 1/2" – 2"

### CONNECTIONS

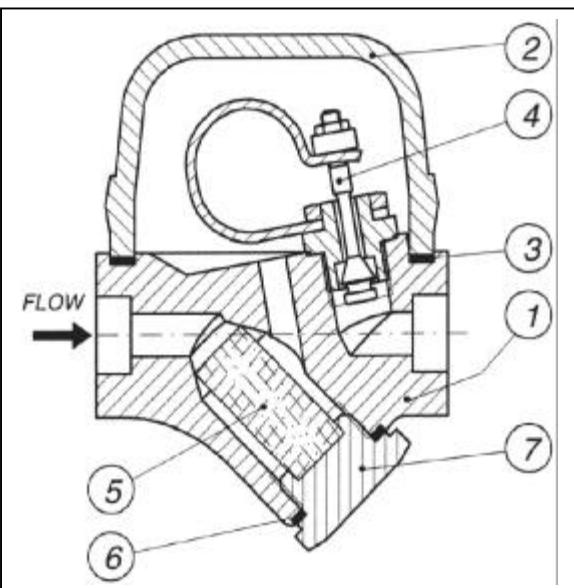
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11
FLANGED	ANSI 150# / 300# / 600# / UNI / DIN

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 300
PMA: Max allowable pressure	50 bar
TMA: max allowable temperature	390°C
PMO: max working pressure	30 bar
TMO: max working temperature	300°C

## BIMETALLIC THERMOSTATIC STEAM TRAPS

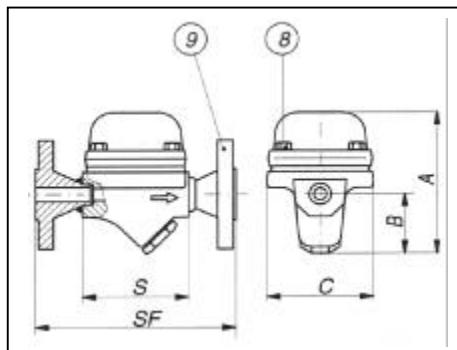
### BC 30



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A105	
2	Cover	ASTM A105	
3	Gasket	316 / GRAPHITE	X
4	Valve assembly	STAINLESS STEEL	X
5	Screen	AISI 304	X
6	Gasket	316 / GRAPHITE	X
7	Strainer cap	ASTM A105	
7	Blow-off valve *	AISI 416	
8	Bolts	ASTM A193 B7	
9	Flange	ASTM A105	

\* Optional

Size (inches)	S	A	B	C	Weight (Kg)	UNI-DN PN16-25-40		150#		300#		600#	
						SF	Kg	SF	Kg	SF	Kg	SF	Kg
1/2"	100	150	55	100	3.8	166	5.4	160	5.2	180	5.4	190	5.6
3/4"	100	150	55	100	3.8	170	6.1	170	5.4	190	6.6	200	7
1"	120	160	65	100	4.5	190	7.3	200	6.7	210	7.9	230	8.3
1 1/2""	160	205	80	170	13	240	17	250	16	260	19.4	280	20.2
2"	160	205	80	170	13	246	19	250	18.5	260	20.2	280	22.4



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the direction of flow on vertical lines must be downwards. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BC steam trap to the "as new from factory" condition. Unscrew the bolts (8) and remove cover (2) and gasket (3). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (3) and reinstall cover (2) tightening the bolts (8). To service the strainer, unscrew cap (7), withdraw screen (5) and clean or replace it. Screwing the cap back in place, always fit a new gasket (6). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BC 20 1" 150 RF**

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

**OFFICIAL WEB SITE:** [www.douglas-italia.com](http://www.douglas-italia.com)



DOUGLAS ITALIA S.p.A.

**BIMETALLIC THERMOSTATIC  
STEAM TRAPS  
BC 40**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.

### MAIN FEATURES

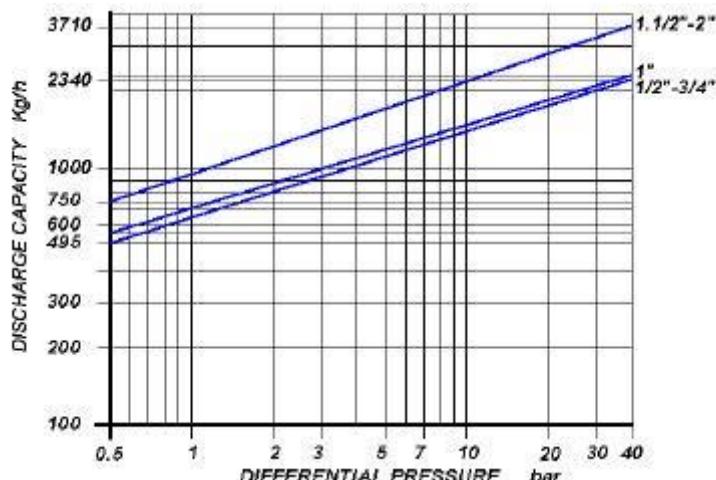
Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.



### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4" – 1" – 1. 1/2" – 2"

### CONNECTIONS

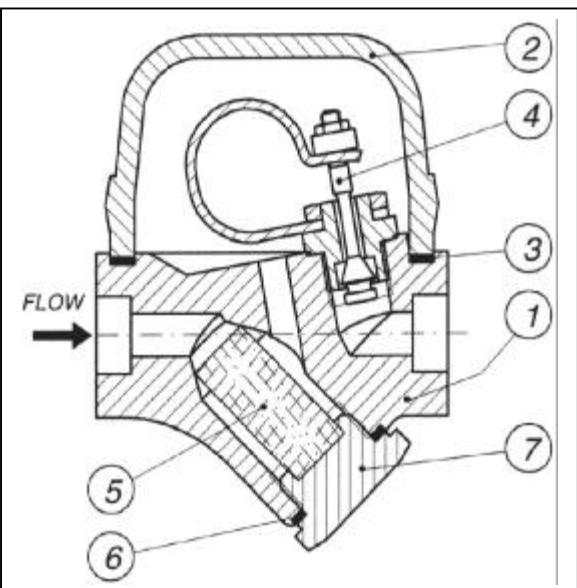
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11
FLANGED	ANSI 150# / 300# / 600# / UNI / DIN

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 300
PMA: Max allowable pressure	50 bar
TMA: max allowable temperature	390°C
PMO: max working pressure	40 bar
TMO: max working temperature	300°C

## BIMETALLIC THERMOSTATIC STEAM TRAPS

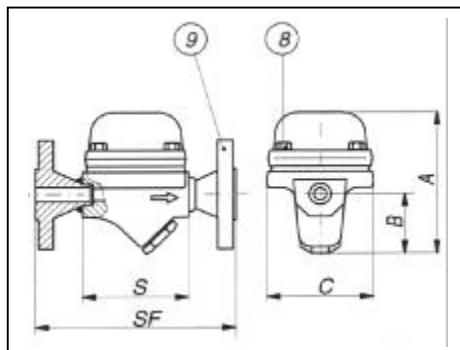
### BC 40



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A105	
2	Cover	ASTM A105	
3	Gasket	316 / GRAPHITE	X
4	Valve assembly	STAINLESS STEEL	X
5	Screen	AISI 304	X
6	Gasket	316 / GRAPHITE	X
7	Strainer cap	ASTM A105	
7	Blow-off valve *	AISI 416	
8	Bolts	ASTM A193 B7	
9	Flange	ASTM A105	

\* Optional

Size (inches)	S	A	B	C	Weight (Kg)	UNI-DN PN16-25-40		150#		300#		600#	
						SF	Kg	SF	Kg	SF	Kg	SF	Kg
1/2"	100	150	55	100	3.8	166	5.4	160	5.2	180	5.4	190	5.6
3/4"	100	150	55	100	3.8	170	6.1	170	5.4	190	6.6	200	7
1"	120	160	65	100	4.5	190	7.3	200	6.7	210	7.9	230	8.3
1 1/2""	160	205	80	170	13	240	17	250	16	260	19.4	280	20.2
2"	160	205	80	170	13	246	19	250	18.5	260	20.2	280	22.4



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the direction of flow on vertical lines must be downwards. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BC steam trap to the "as new from factory" condition. Unscrew the bolts (8) and remove cover (2) and gasket (3). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (3) and reinstall cover (2) tightening the bolts (8). To service the strainer, unscrew cap (7), withdraw screen (5) and clean or replace it. Screwing the cap back in place, always fit a new gasket (6). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BC 20 1" 150 RF**

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

**OFFICIAL WEB SITE:** [www.douglas-italia.com](http://www.douglas-italia.com)



DOUGLAS ITALIA S.p.A.

**BIMETALLIC THERMOSTATIC  
STEAM TRAPS  
BD A 105**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



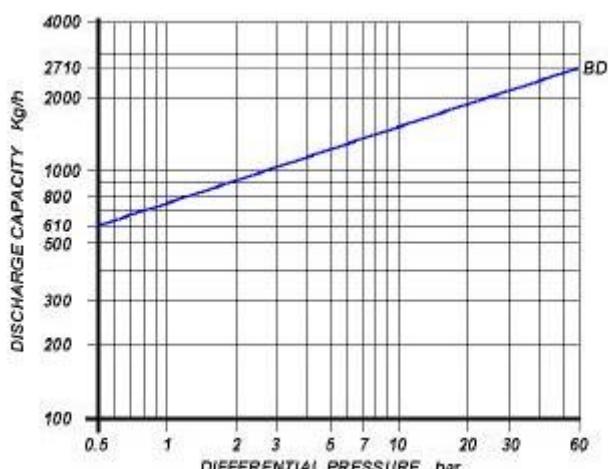
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4" – 1"

### CONNECTIONS

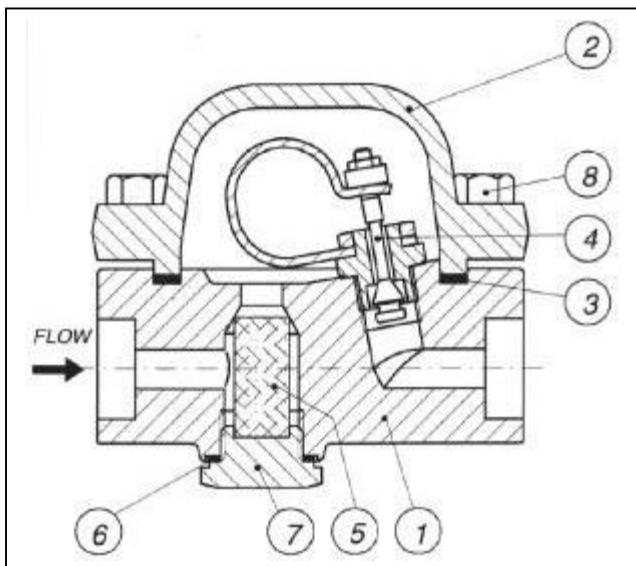
SCREWED	ANSI B1.20.1 (NPT)
BUTTWELD	ANSI B16.25
SOCKET WELD	ANSI B16.11
FLANGED	ANSI 150#/300#/600#/UNI/DIN

### 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	60 bar
TMO: max working temperature	340°C

## BIMETALLIC THERMOSTATIC STEAM TRAPS

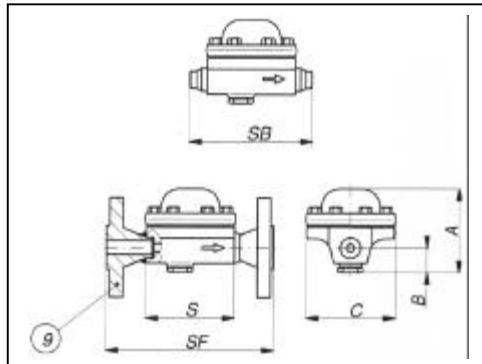
### BD A 105



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A105	
2	Cover	ASTM A105	
3	Gasket	316 / GRAPHITE	X
4	Valve assembly	STAINLESS STEEL	X
5	Screen	AISI 304	X
6	Gasket	316 / GRAPHITE	X
7	Strainer cap	ASTM A105	
7	Blow-off valve *	AISI 416	
8	Bolts	ASTM A193 B7	
9	Flange	ASTM A105	

\* Optional

Size (inches)	S	SB	A	B	C	Weight (Kg)	UNI-DIN PN16-25-40 SF Kg	150#		300#		600#		
								SF	Kg	SF	Kg	SF	Kg	
1/2"	145	200	130	35	145	8	211	9.5	205	9.2	225	9.5	235	10.5
3/4"	145	200	130	35	145	8	215	10	215	9.5	235	10.5	245	11
1"	145	200	130	35	145	8	215	10.5	225	10	235	11.2	255	11.5



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the direction of flow on vertical lines must be downwards. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BD steam trap to the "as new from factory" condition. Unscrew the 8 bolts (8) and remove cover (2) and gasket (3). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (3) and reinstall cover (2) tightening the bolts (8). To service the strainer, unscrew cap (7), withdraw screen (5) and clean or replace it. Screwing the cap back in place, always fit a new gasket (6). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BD A 105 3/4" 300 RF**

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

**OFFICIAL WEB SITE:** [www.douglas-italia.com](http://www.douglas-italia.com)



DOUGLAS ITALIA S.p.A.

**BIMETALLIC THERMOSTATIC  
STEAM TRAPS  
BD F 11**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



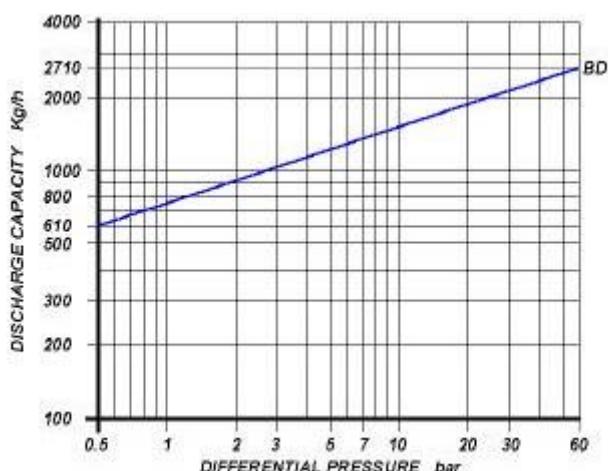
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4" – 1"

### CONNECTIONS

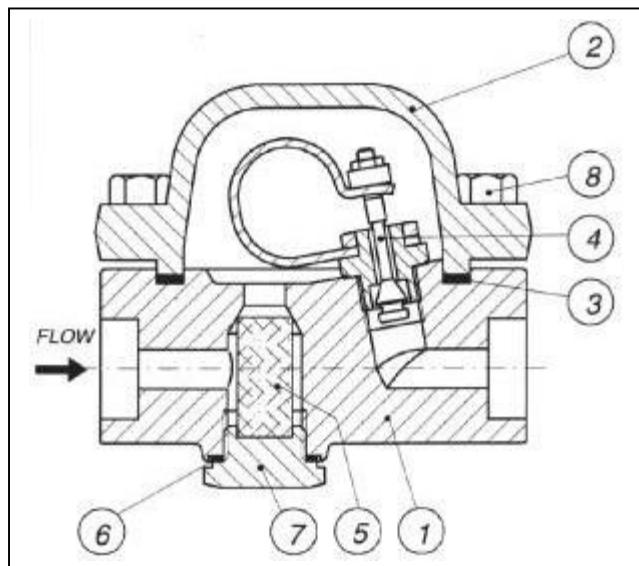
SCREWED	ANSI B1.20.1 (NPT)
BUTTWELD	ANSI B16.25
SOCKET WELD	ANSI B16.11
FLANGED	ANSI 150# / 300# / 600# / UNI / DIN

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 600
PMA: Max allowable pressure	100 bar
TMA: max allowable temperature	510°C
PMO: max working pressure	60 bar
TMO: max working temperature	340°C

## BIMETALLIC THERMOSTATIC STEAM TRAPS

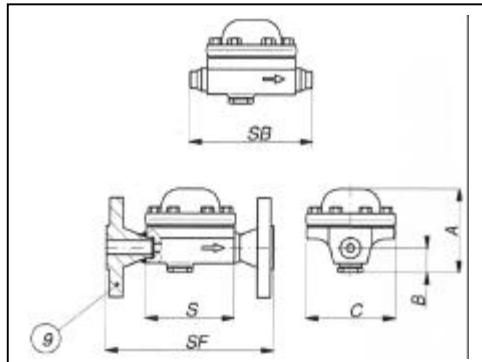
### BD F 11



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A182 F11	
2	Cover	ASTM A182 F11	
3	Gasket	316 / GRAPHITE	X
4	Valve assembly	STAINLESS STEEL	X
5	Screen	AISI 304	X
6	Gasket	316 / GRAPHITE	X
7	Strainer cap	ASTM A105	
7	Blow-off valve *	AISI 416	
8	Bolts	ASTM A193 B7	
9	Flange	ASTM A182 F11	

\* Optional

Size (inches)	S	SB	A	B	C	Weight (Kg)	UNI-DIN PN16-25-40 SF Kg	Flanged		300#		600#		
								150#	300#	SF	Kg	SF	Kg	
1/2"	145	200	130	35	145	8	211	9.5	205	9.2	225	9.5	235	10.5
3/4"	145	200	130	35	145	8	215	10	215	9.5	235	10.5	245	11
1"	145	200	130	35	145	8	215	10.5	225	10	235	11.2	255	11.5



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the direction of flow on vertical lines must be downwards. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BD steam trap to the "as new from factory" condition. Unscrew the 8 bolts (8) and remove cover (2) and gasket (3). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (3) and reinstall cover (2) tightening the bolts (8). To service the strainer, unscrew cap (7), withdraw screen (5) and clean or replace it. Screwing the cap back in place, always fit a new gasket (6). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BD A 105 3/4" 300 RF**

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

**OFFICIAL WEB SITE:** [www.douglas-italia.com](http://www.douglas-italia.com)



DOUGLAS ITALIA S.p.A.

**BIMETALLIC THERMOSTATIC  
STEAM TRAPS  
BD 60S F22**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



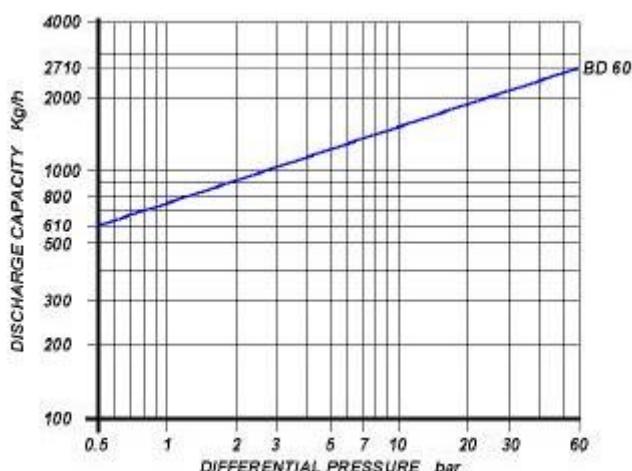
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4" – 1"

### CONNECTIONS

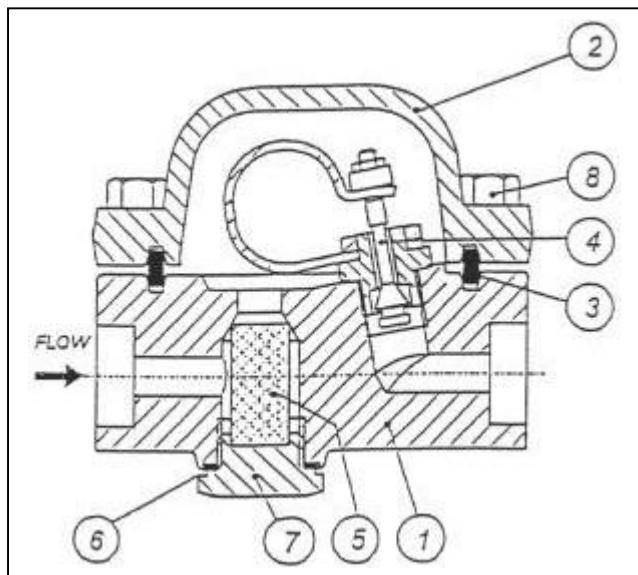
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11
FLANGED	ANSI B16.5

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 800
PMA: Max allowable pressure	137 bar
TMA: max allowable temperature	570°C
PMO: max working pressure	60 bar
TMO: max working temperature	340°C

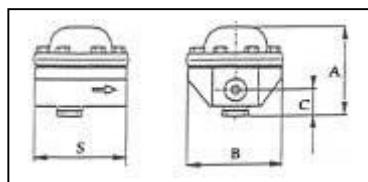
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BD 60S F22



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A182 F22	
2	Cover	ASTM A182 F22	
3	Gasket	316 / GRAPHITE	X
4	Valve assembly	STAINLESS STEEL	X
5	Screen	AISI 316	X
6	Gasket	316 / GRAPHITE	X
7	Strainer cap	ASTM A182 F22	
8	Bolts	ASTM A193 B8	

Size (inches)	S	A	B	C
1/2"	145	140	170	35
3/4"	145	140	170	35
1"	145	140	170	35



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the direction of flow on vertical lines must be downwards. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BD 60S F22 steam trap to the "as new from factory" condition. Unscrew the bolts (8) and remove cover (2) and gasket (3). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (3) and reinstall cover (2) tightening the bolts (8). To service the strainer, unscrew cap (7), withdraw screen (5) and clean or replace it. Screwing the cap back in place, always fit a new gasket (6). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BD 60S F22 3/4" NPT**

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

**OFFICIAL WEB SITE:** [www.douglas-italia.com](http://www.douglas-italia.com)



DOUGLAS ITALIA S.p.A.

**BIMETALLIC THERMOSTATIC  
STEAM TRAPS  
BD 60 S1**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



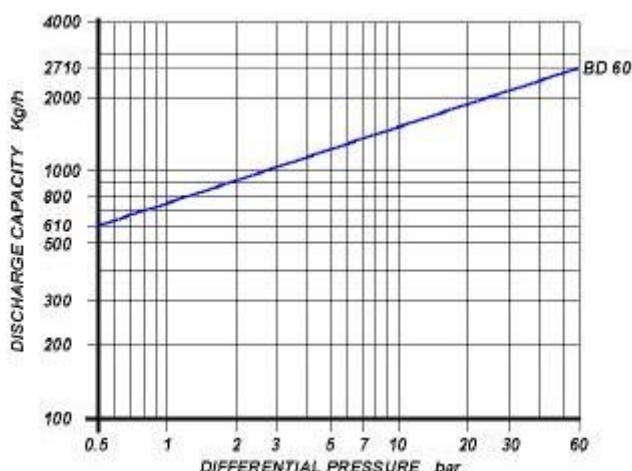
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4" – 1"

### CONNECTIONS

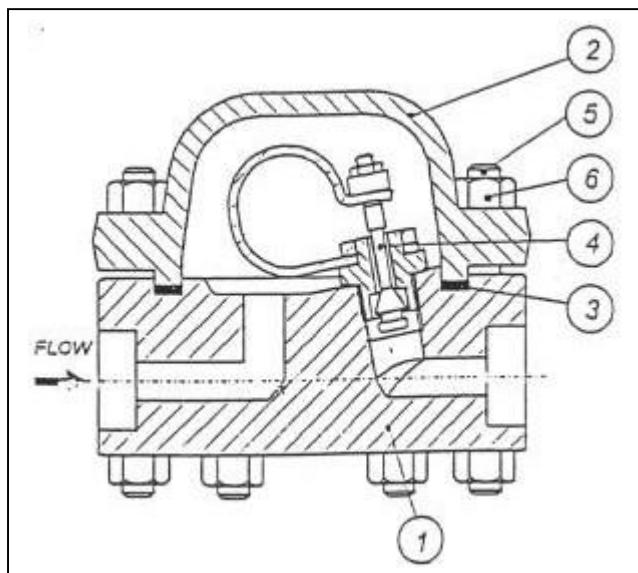
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11
FLANGED	ANSI B16.5

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 800
PMA: Max allowable pressure	137 bar
TMA: max allowable temperature	570°C
PMO: max working pressure	60 bar
TMO: max working temperature	340°C

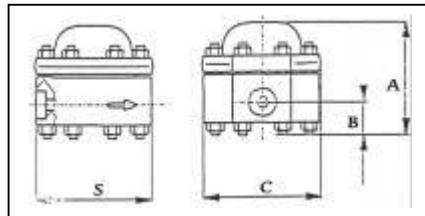
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BD 60 S1



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	SA F2205	
2	Cover	SA F2205	
3	Gasket	316 / GRAPHITE	X
4	Valve assembly	STAINLESS STEEL	X
5	Studs	ASTM A193 B8	
6	Nuts	ASTM A194 Gr.8	

Size (inches)	S	A	B	C
1/2"	145	140	35	170
3/4"	145	140	35	170
1"	145	140	35	170



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the clearing of the strainer. For the same reason the direction of flow on vertical lines must be downwards. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BD 60 S1 steam trap to the "as new from factory" condition. Unscrew the bolts (5) and remove cover (2) and gasket (3). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (3) and reinstall cover (2) tightening the bolts (5). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BD 60 S1 3/4" NPT**

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

**OFFICIAL WEB SITE:** [www.douglas-italia.com](http://www.douglas-italia.com)



DOUGLAS ITALIA S.p.A.

**BIMETALLIC THERMOSTATIC  
STEAM TRAPS  
BD 80S F11**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



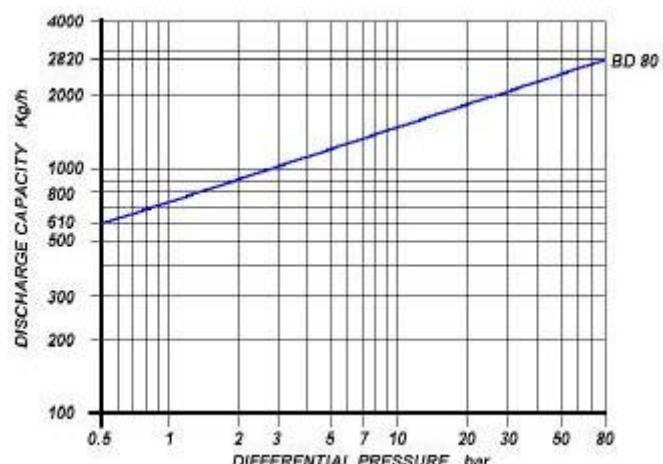
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4" – 1"

### CONNECTIONS

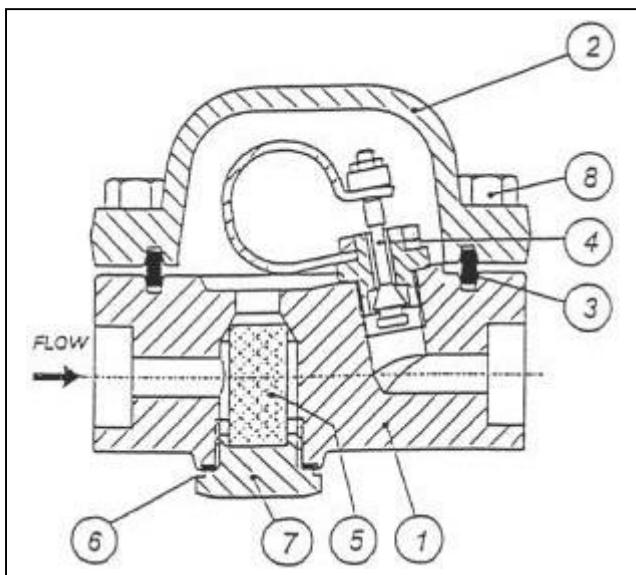
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 1500
PMA: Max allowable pressure	258 bar
TMA: max allowable temperature	570°C
PMO: max working pressure	80 bar
TMO: max working temperature	340°C

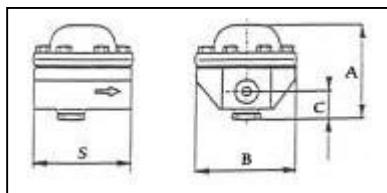
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BD 80S F11



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A 182 F11	
2	Cover	ASTM A 182 F11	
3	RJ	ASTM A 182 F304	X
4	Valve assembly	STAINLESS STEEL	X
5	Screen	AISI 316	X
6	Gasket	316 / GRAPHITE	X
7	Strainer cap	ASTM A 182 F11	
8	Bolts	ASTM A193 B8	

Size (inches)	S	A	B	C
1/2"	180	150	190	45
3/4"	180	150	190	45
1"	180	150	190	45



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the direction of flow on vertical lines must be downwards. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BD 80S F11 steam trap to the "as new from factory" condition. Unscrew the bolts (8) and remove cover (2) and gasket (3). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (3) and reinstall cover (2) tightening the bolts (8). To service the strainer, unscrew cap (7), withdraw screen (5) and clean or replace it. Screwing the cap back in place, always fit a new gasket (6). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BD 80S F11 3/4" NPT**

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DOUGLAS ITALIA S.p.A.

**BIMETALLIC THERMOSTATIC  
STEAM TRAPS  
BD 80S F22**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



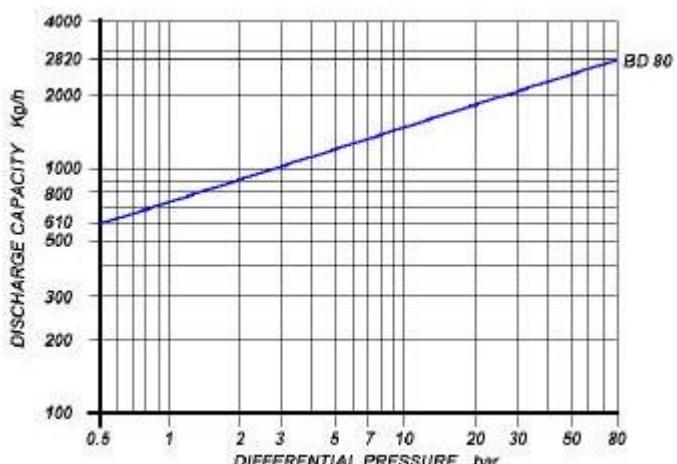
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4" – 1" – 1 1/2" – 2"

### CONNECTIONS

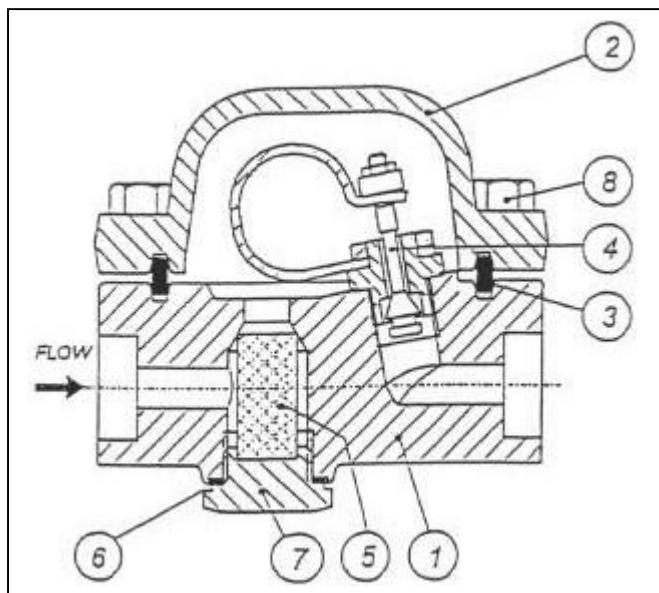
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 1500
PMA: Max allowable pressure	258 bar
TMA: max allowable temperature	570°C
PMO: max working pressure	80 bar
TMO: max working temperature	340°C

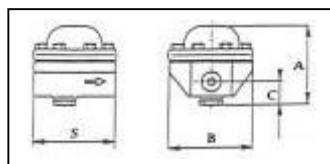
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BD 80S F22



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A 182 F22	
2	Cover	ASTM A 182 F22	
3	RJ	ASTM A 182 F22	X
4	Valve assembly	STAINLESS STEEL	X
5	Screen	AISI 316	X
6	Gasket	316 / GRAPHITE	X
7	Strainer cap	ASTM A 182 F22	
8	Bolts	ASTM A193 B8	

Size (inches)	S	A	B	C
1/2"	180	150	190	45
3/4"	180	150	190	45
1"	180	150	190	45



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the direction of flow on vertical lines must be downwards. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BD 80S F22 steam trap to the "as new from factory" condition. Unscrew the bolts (8) and remove cover (2) and gasket (3). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (3) and reinstall cover (2) tightening the bolts (8). To service the strainer, unscrew cap (7), withdraw screen (5) and clean or replace it. Screwing the cap back in place, always fit a new gasket (6). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BD 80S F22 3/4" NPT**

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

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DOUGLAS ITALIA S.p.A.

**BIMETALLIC THERMOSTATIC  
STEAM TRAPS  
BX 80 F22**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



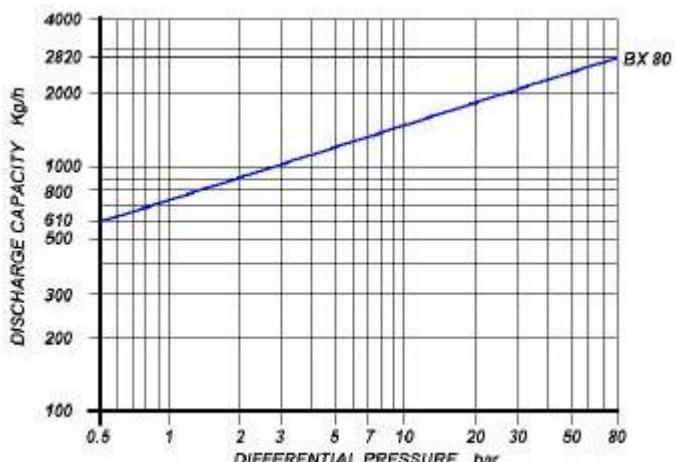
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1" – 2"

### CONNECTIONS

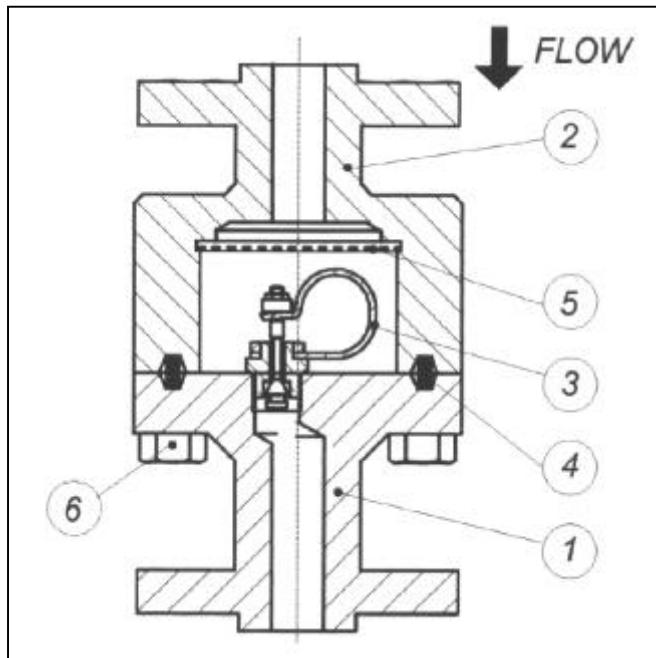
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11
FLANGED	ANSI 1500

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 1500
PMA: Max allowable pressure	258 bar
TMA: max allowable temperature	570°C
PMO: max working pressure	80 bar
TMO: max working temperature	340°C

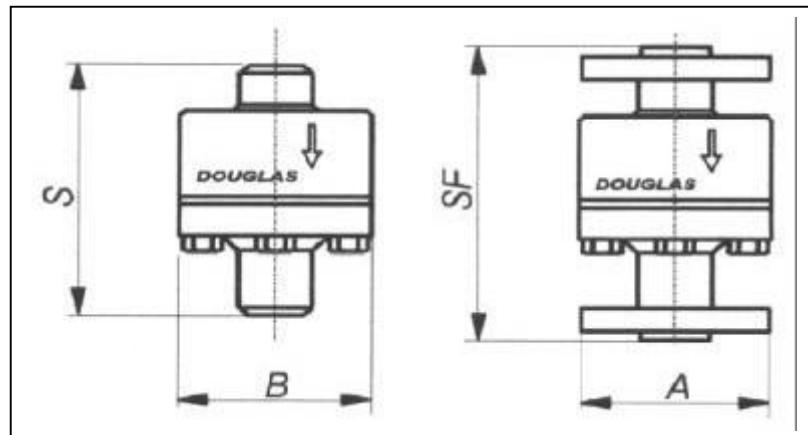
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BX 80 F22



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A182 F22	
2	Cover	ASTM A182 F22	
3	Valve assembly	STAINLESS STEEL	X
4	Gasket RJ	ASTM A182 F304	X
5	Screen	AISI 304	X
6	Bolt	ASTM A193 B8	X

Size (inches)	S	B	A	SF	Weight (Kg)
1"	173	180	149	243	30.2
2"	173	180	216	262	44.6



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. For installation with superheated steam, please contact our Technical Department

#### HOW TO SERVICE

By installing a new element assembly you can bring the BX 80 F22 steam trap to the "as new from factory" condition. Unscrew the bolts (6) and remove cover (2) and gasket (4). Unscrew and remove the element (3). Clean the inside of the trap, clean screen (5) and screw in the element-gasket assembly. Fit a new gasket (3), fit screen (5) and reinstall cover (2) tightening the bolts (6).

**How to order: i.e. BX 80 F22 1" NPT**

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

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DOUGLAS ITALIA S.p.A.

**BIMETALLIC THERMOSTATIC  
STEAM TRAPS  
BD 100 F22**

### **BIMETALLIC THERMOSTATIC**

*The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.*



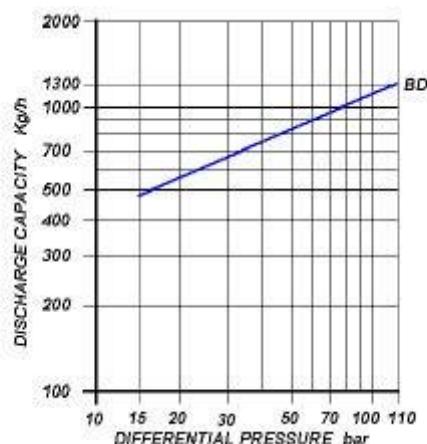
### **MAIN FEATURES**

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### **APPLICATIONS**

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

### **DISCHARGE CAPACITY**



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

### **SIZES**

1/2" – 3/4" – 1"

### **CONNECTIONS**

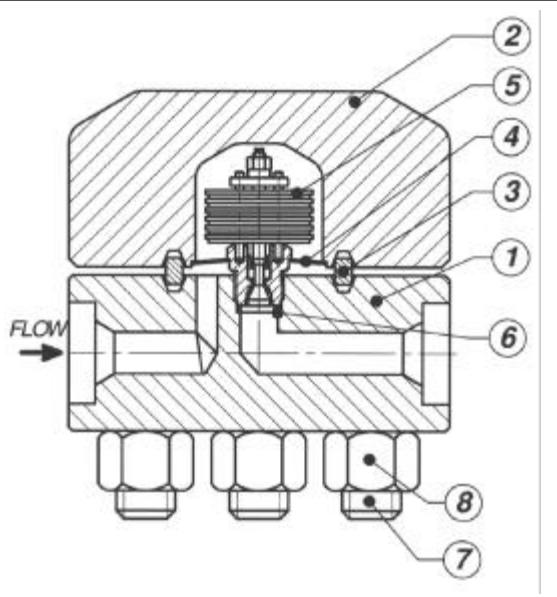
SOCKET WELD	ANSI B16.11
FLANGED	ANSI B16.5 RF-RJ ( 600 – 1500 )

### **LIMITING CONDITIONS ( according to ISO 6552 )**

Steam Trap rating	ANSI 1500
PMA: Max allowable pressure	250 bar
TMA: max allowable temperature	580°C
PMO: max working pressure	110 bar
TMO: max working temperature	550°C

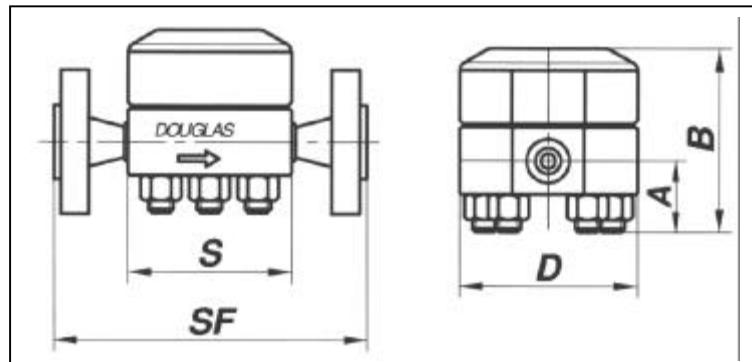
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BD 100 F22



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A182 F22	
2	Cover	ASTM A182 F22	
3	Cover gasket RJ	ASTM A182 F304	X
4	Screen	AISI 304	X
5	Seat	NITRONIC 50 + STELLITE	X
5	Valve	NITRONIC 60	X
5	Bimetallic element	STAINLESS STEEL	X
6	Gasket seat	ASTM A182 F316	X
7	Studs	ASTM A320 L7	
8	Nuts	ASTM A194 Gr.4	

Size (inches)	S	A	B	D	Weight (Kg)	Flanged		1500#	
						600#		1500#	
						SF	Kg	SF	Kg
1/2"	151	50	175	160	25	252	29	270	34
3/4"	151	50	175	160	25	262	30	288	35
1"	151	50	175	160	25	270	33	292	38



#### INSTALLATION

The steam trap is designed for installation on horizontal line with the cover at the top. The steam trap may be used on superheated steam. Condensate is discharged below steam temperature (30°). Subcooling temperature may be adjusted on field without removing the trap from the line. For information for this operation, to be performed only by qualified personnel, please ask our technical department.

#### HOW TO SERVICE

By installing a new valve assembly you can bring the BD 100 steam trap to the "as new from factory" condition. Unscrew the 8 nuts (8). Remove cover (2) and RJ gasket (3). Unscrew and remove valve assembly (5) with screen (4). Clean the inside of the trap and clean or replace the screen (4). Screw in the new valve assembly (5) with screen (4) and reinstall cover (2) tightening the nuts (8).

**How to order: i.e. BD 100 1" 1500 RF**

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DOUGLAS ITALIA S.p.A.

BIMETALLIC THERMOSTATIC

STEAM TRAPS

**BD 120 A105**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



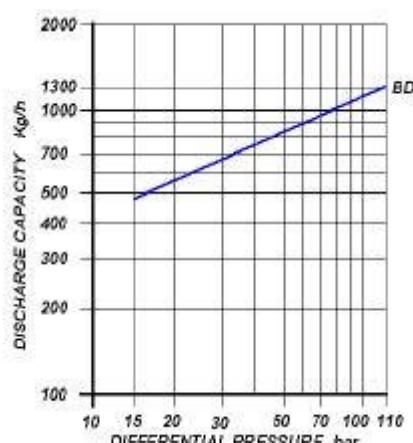
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4" – 1" – 1 1/2"

### CONNECTIONS

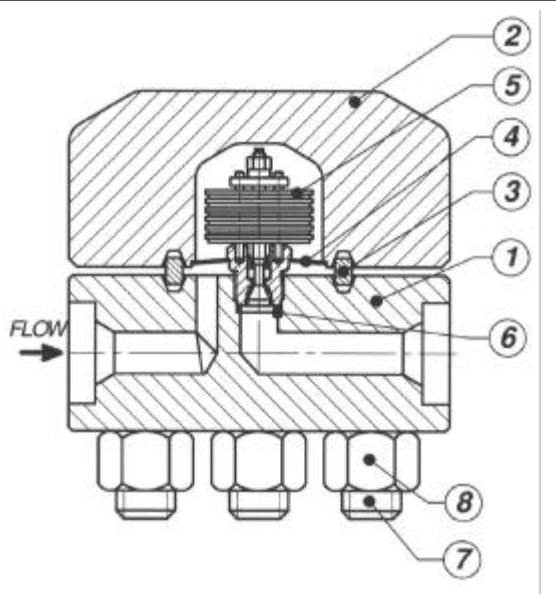
SOCKET WELD	ANSI B16.11
FLANGED	ANSI B16.5 RF-RJ ( 1500 – 2500 )

### LIMITING CONDITIONS ( according to ISO 6552 )

Steam Trap rating	ANSI 2500
PMA: Max allowable pressure	425 bar
TMA: max allowable temperature	425°C
PMO: max working pressure	110 bar
TMO: max working temperature	400°C

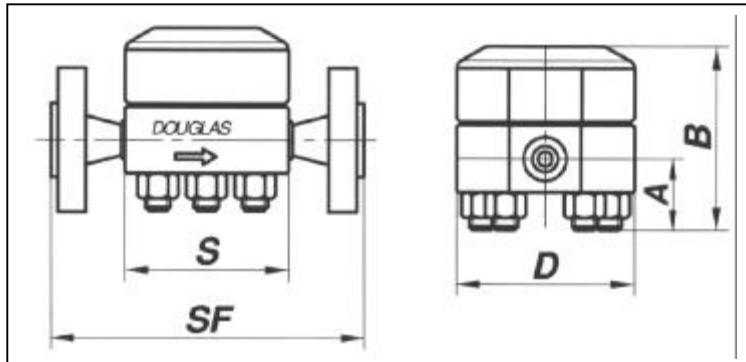
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BD 120 A105



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A105	
2	Cover	ASTM A105	
3	Cover gasket RJ	ASTM A182 F304	X
4	Screen	AISI 304	X
5	Seat	NITRONIC 50 + STELLITE	X
5	Valve	NITRONIC 60	X
5	Bimetallic element	STAINLESS STEEL	X
6	Gasket seat	ASTM A182 F316	X
7	Studs	ASTM A320 B7	
8	Nuts	ASTM A194 2H	

Size (inches)	S	A	B	D	Weight (Kg)	Flanged		1500 RF - RJ		2500 RF		2500 RJ	
						SF	Kg	SF	Kg	SF	Kg	SF	Kg
1/2"	185	70	200	200	35	322	40	341	44	341	44		
3/4"	185	70	200	200	35	322	40	341	44	341	44		
1"	185	70	200	200	35	328	43	360	48	360	49		
1 1/2""	185	70	200	200	35	345	47	402	54	405	55		



#### INSTALLATION

The steam trap is designed for installation on horizontal line with the cover at the top. The steam trap may be used on superheated steam. Condensate is discharged below steam temperature (30°). Subcooling temperature may be adjusted on field without removing the trap from the line. For information for this operation, to be performed only by qualified personnel, please ask our technical department.

#### HOW TO SERVICE

By installing a new valve assembly you can bring the BD 120 A105 steam trap to the 'as new from factory' condition. Unscrew the 8 nuts (8). Remove cover (2) and RJ gasket (3). Unscrew and remove valve assembly (5) with screen (4). Clean the inside of the trap and clean or replace the screen (4). Screw in the new valve assembly (5) with screen (4) and reinstall cover (2) tightening the nuts (8).

**How to order: i.e. BD 120 A105 1" 1500 RF**

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DOUGLAS ITALIA S.p.A.

**BIMETALLIC THERMOSTATIC  
STEAM TRAPS  
BD 120 F22**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



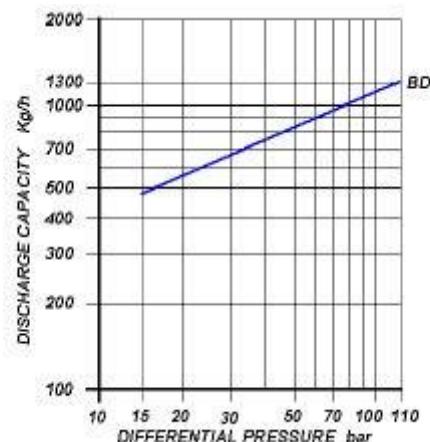
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4" – 1" – 1 1/2"

### CONNECTIONS

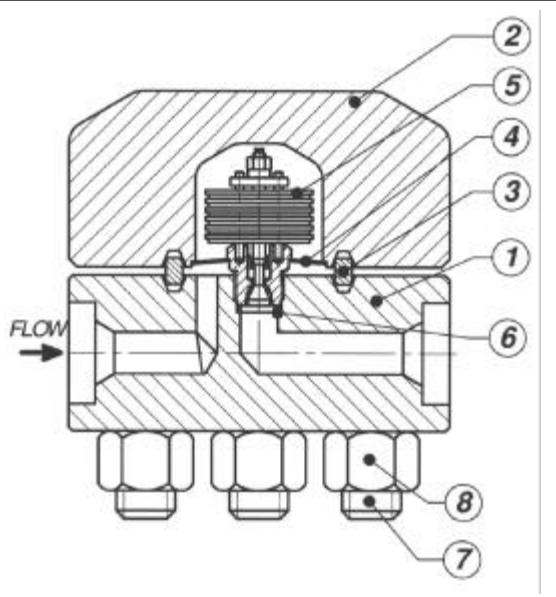
SOCKET WELD	ANSI B16.11
FLANGED	ANSI B16.5 RF-RJ ( 1500 – 2500 )

### LIMITING CONDITIONS ( according to ISO 6552 )

Steam Trap rating	ANSI 2500
PMA: Max allowable pressure	430 bar
TMA: max allowable temperature	580°C
PMO: max working pressure	110 bar
TMO: max working temperature	550°C

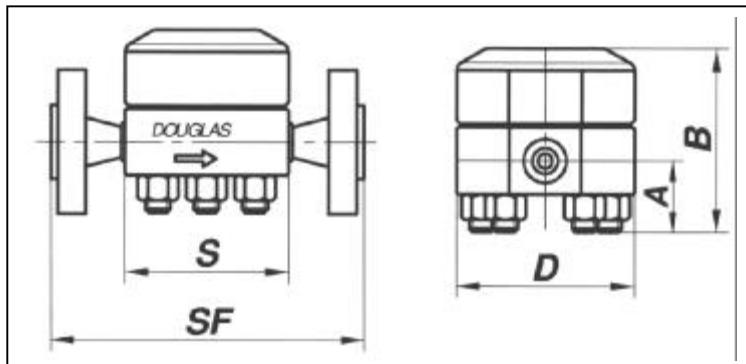
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BD 120 F22



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A182 F22	
2	Cover	ASTM A182 F22	
3	Cover gasket RJ	ASTM A182 F304	X
4	Screen	AISI 304	X
5	Seat	NITRONIC 50 + STELLITE	X
5	Valve	NITRONIC 60	X
5	Bimetallic element	STAINLESS STEEL	X
6	Gasket seat	ASTM A182 F316	X
7	Studs	ASTM A320 L7	
8	Nuts	ASTM A194 Gr.4	

Size (inches)	S	A	B	D	Weight (Kg)	Flanged		1500 RF - RJ		2500 RF		2500 RJ	
						SF	Kg	SF	Kg	SF	Kg	SF	Kg
1/2"	185	70	200	200	35	305	36	331	42	331	42		
3/4"	185	70	200	200	35	322	40	341	44	341	44		
1"	185	70	200	200	35	328	43	360	48	360	49		
1 1/2""	185	70	200	200	35	345	47	402	54	405	55		



#### INSTALLATION

The steam trap is designed for installation on horizontal line with the cover at the top. The steam trap may be used on superheated steam. Condensate is discharged below steam temperature (30°). Subcooling temperature may be adjusted on field without removing the trap from the line. For information for this operation, to be performed only by qualified personnel, please ask our technical department.

#### HOW TO SERVICE

By installing a new valve assembly you can bring the BD 120 F22 steam trap to the "as new from factory" condition. Unscrew the 8 nuts (8). Remove cover (2) and RJ gasket (3). Unscrew and remove valve assembly (5) with screen (4). Clean the inside of the trap and clean or replace the screen (4). Screw in the new valve assembly (5) with screen (4) and reinstall cover (2) tightening the nuts (8).

**How to order: i.e. BD 120 F22 1" 1500 RF**

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

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DOUGLAS ITALIA S.p.A.

**BIMETALLIC THERMOSTATIC  
STEAM TRAPS  
BC 20 S1**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



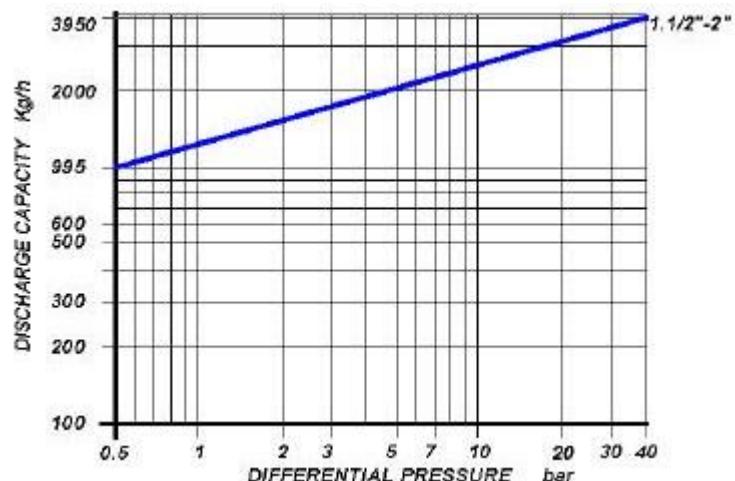
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1 1/2" – 2"

### CONNECTIONS

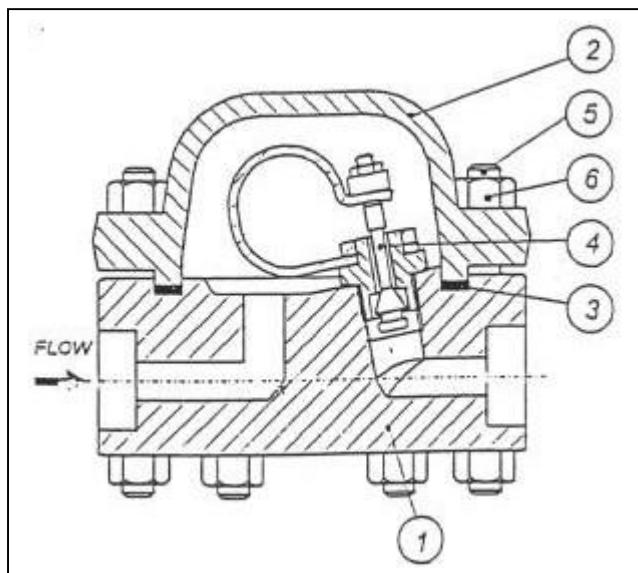
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11
FLANGED	ANSI B16.5

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 800
PMA: Max allowable pressure	137 bar
TMA: max allowable temperature	570°C
PMO: max working pressure	20 bar
TMO: max working temperature	275°C

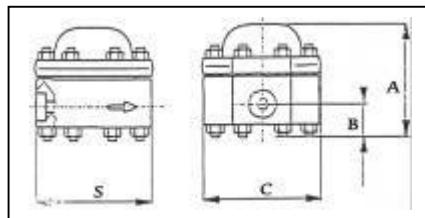
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BC 20 S1



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	SA F2205	
2	Cover	SA F2205	
3	Gasket	316 / GRAPHITE	X
4	Valve assembly	STAINLESS STEEL	X
5	Studs	ASTM A193 B8	
6	Nuts	ASTM A194 Gr.8	

Size (inches)	S	A	B	C
1½"	160	190	60	180
2"	160	190	60	180



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the direction of flow on vertical lines must be downwards. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BC 20 S1 steam trap to the "as new from factory" condition. Unscrew the bolts (5) and remove cover (2) and gasket (3). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (3) and reinstall cover (2) tightening the bolts (5). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BC 20 S1 2" NPT**

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

**OFFICIAL WEB SITE:** [www.douglas-italia.com](http://www.douglas-italia.com)



DOUGLAS ITALIA S.p.A.

BIMETALLIC THERMOSTATIC

STEAM TRAPS

**BCS 8 F 316**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



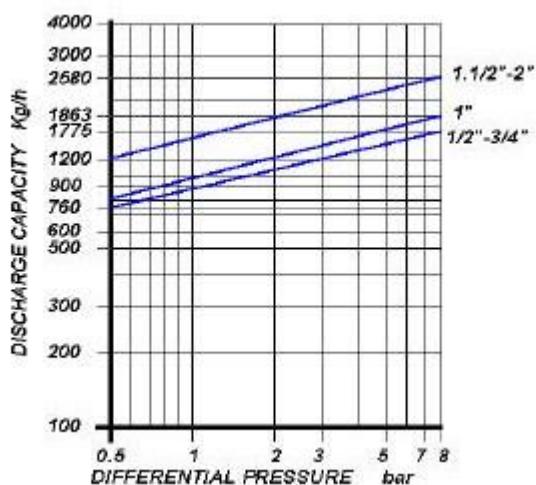
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4" – 1" – 1. 1/2" – 2"

### CONNECTIONS

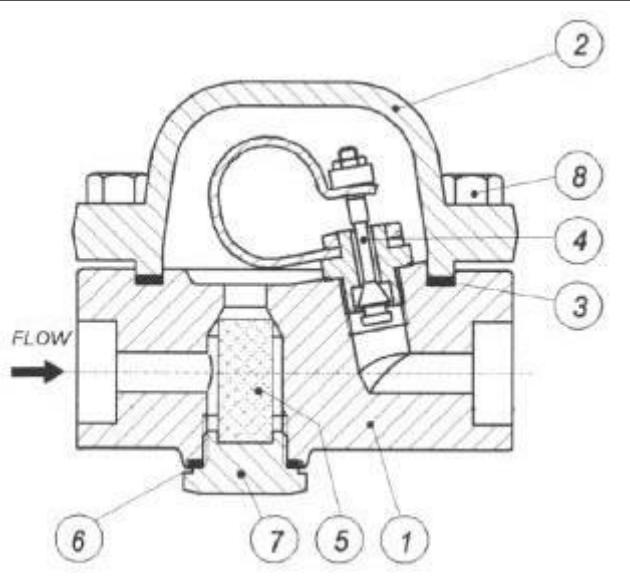
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11
FLANGED	ANSI 150# / 300# / 600# / UNI / DIN

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 800
PMA: Max allowable pressure	132 bar
TMA: max allowable temperature	500°C
PMO: max working pressure	8 bar
TMO: max working temperature	250°C

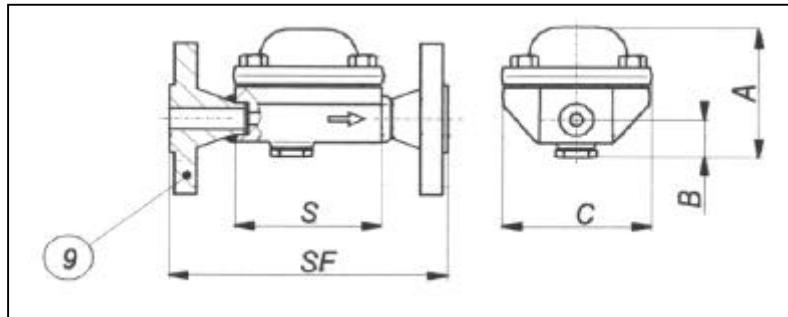
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BCS 8 F316



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A182 F316	
2	Cover	ASTM A182 F316	
3	Gasket	316 / GRAPHITE	X
4	Valve assembly	STAINLESS STEEL	X
5	Screen	AISI 304	X
6	Gasket	316 / GRAPHITE	X
7	Strainer cap	ASTM A182 F316	
8	Bolts	ASTM A193 B8	
9	Flange	ASTM A182 F316	

Size (inches)	S	A	B	C	Weight (Kg)	UNI-DN PN16-25-40		150#		300#		600#	
						SF	Kg	SF	Kg	SF	Kg	SF	Kg
1/2"	100	129	35	135	7	166	8.5	160	8.2	180	8.5	190	9
3/4"	100	129	35	135	7	170	8.5	170	8.2	190	8.5	200	9
1"	120	129	35	135	7	190	10	200	10.2	210	10.7	230	12
1 1/2""	160	181	52	180	15	240	16.1	250	16	260	16.5	280	17
2"	160	181	52	180	15	246	18	250	20	260	21	280	23



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the direction of flow on vertical lines must be downwards. Before welding a SW trap, remove element (4). This operation can be avoided by using arc electrod welding. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BC steam trap to the "as new from factory" condition. Unscrew the bolts (8) and remove cover (2) and gasket (3). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (3) and reinstall cover (2) tightening the bolts (8). To service the strainer, unscrew cap (7), withdraw screen (5) and clean or replace it. Screwing the cap back in place, always fit a new gasket (6). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BCS 20 F316 1" 150 RF**

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

**OFFICIAL WEB SITE:** [www.douglas-italia.com](http://www.douglas-italia.com)



DOUGLAS ITALIA S.p.A.

BIMETALLIC THERMOSTATIC

STEAM TRAPS

**BCS 20 F 316**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



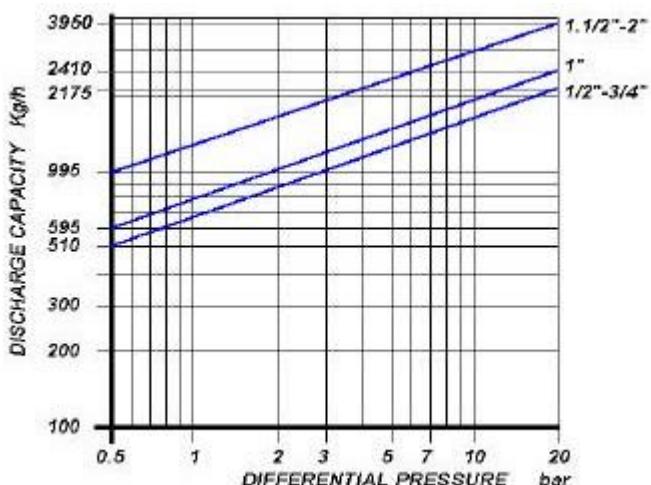
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4" – 1" – 1. 1/2" – 2"

### CONNECTIONS

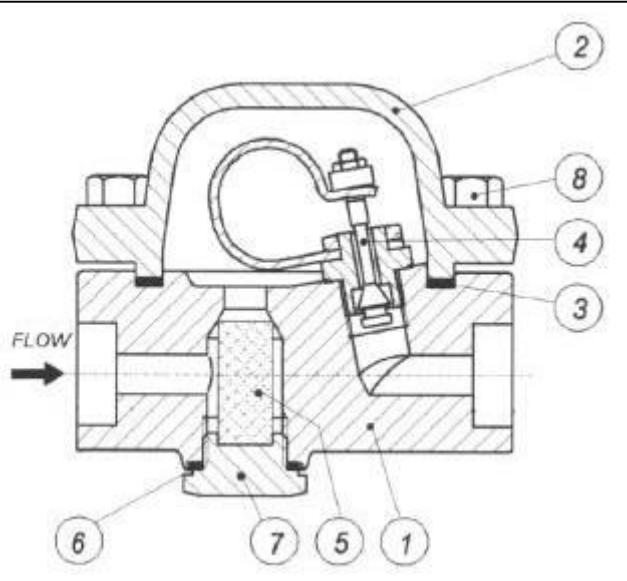
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11
FLANGED	ANSI 150# / 300# / 600# / UNI / DIN

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 800
PMA: Max allowable pressure	132 bar
TMA: max allowable temperature	500°C
PMO: max working pressure	20 bar
TMO: max working temperature	275°C

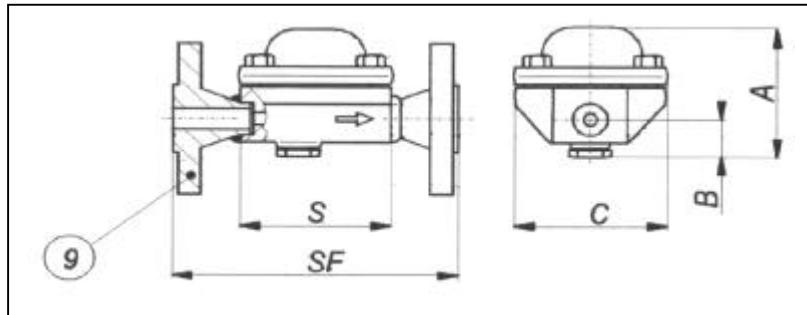
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BCS 20 F316



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A182 F316	
2	Cover	ASTM A182 F316	
3	Gasket	316 / GRAPHITE	X
4	Valve assembly	STAINLESS STEEL	X
5	Screen	AISI 304	X
6	Gasket	316 / GRAPHITE	X
7	Strainer cap	ASTM A182 F316	
8	Bolts	ASTM A193 B8	
9	Flange	ASTM A182 F316	

Size (inches)	S	A	B	C	Weight (Kg)	UNI-DN PN16-25-40		150#		300#		600#	
						SF	Kg	SF	Kg	SF	Kg	SF	Kg
1/2"	100	129	35	135	7	166	8.5	160	8.2	180	8.5	190	9
3/4"	100	129	35	135	7	170	8.5	170	8.2	190	8.5	200	9
1"	120	129	35	135	7	190	10	200	10.2	210	10.7	230	12
1 1/2""	160	181	52	180	15	240	16.1	250	16	260	16.5	280	17
2"	160	181	52	180	15	246	18	250	20	260	21	280	23



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the direction of flow on vertical lines must be downwards. Before welding a SW trap, remove element (4). This operation can be avoided by using arc electrod welding. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BC steam trap to the "as new from factory" condition. Unscrew the bolts (8) and remove cover (2) and gasket (3). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (3) and reinstall cover (2) tightening the bolts (8). To service the strainer, unscrew cap (7), withdraw screen (5) and clean or replace it. Screwing the cap back in place, always fit a new gasket (6). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BCS 20 F316 1" 150 RF**

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

**OFFICIAL WEB SITE:** [www.douglas-italia.com](http://www.douglas-italia.com)



DOUGLAS ITALIA S.p.A.

BIMETALLIC THERMOSTATIC

STEAM TRAPS

**BCS 30 F 316**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



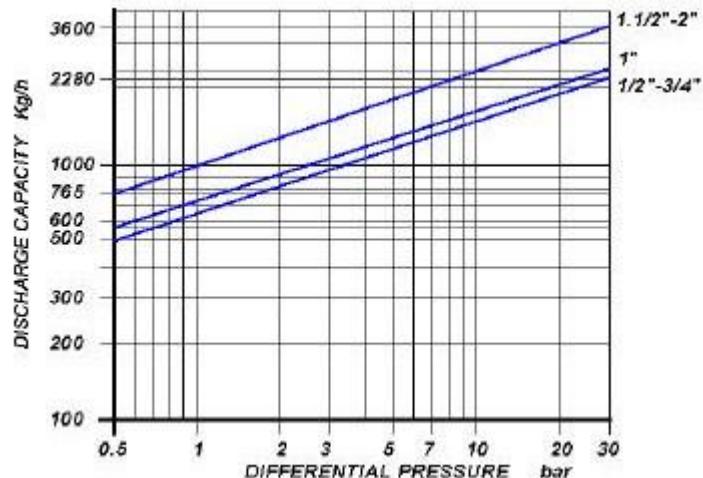
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4" – 1" – 1. 1/2" – 2"

### CONNECTIONS

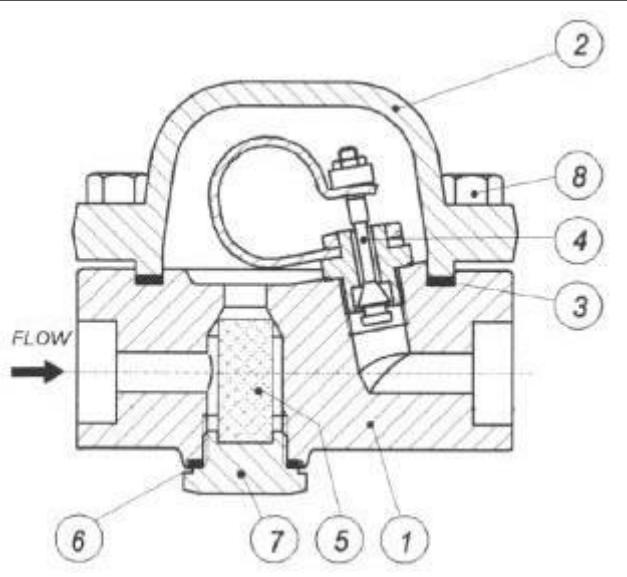
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11
FLANGED	ANSI 150# / 300# / 600# / UNI / DIN

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 800
PMA: Max allowable pressure	132 bar
TMA: max allowable temperature	500°C
PMO: max working pressure	30 bar
TMO: max working temperature	300°C

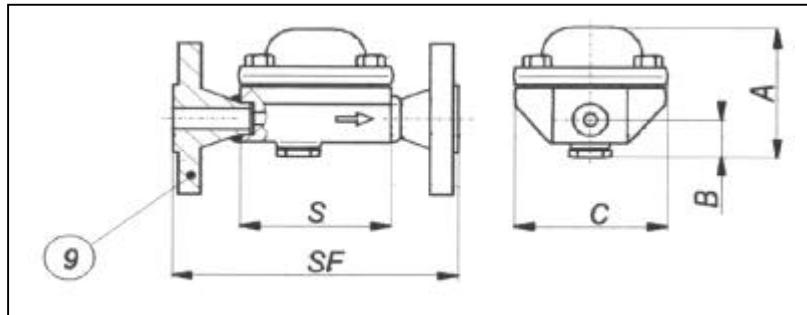
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BCS 30 F316



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A182 F316	
2	Cover	ASTM A182 F316	
3	Gasket	316 / GRAPHITE	X
4	Valve assembly	STAINLESS STEEL	X
5	Screen	AISI 304	X
6	Gasket	316 / GRAPHITE	X
7	Strainer cap	ASTM A182 F316	
8	Bolts	ASTM A193 B8	
9	Flange	ASTM A182 F316	

Size (inches)	S	A	B	C	Weight (Kg)	UNI-DN PN16-25-40		150#		300#		600#	
						SF	Kg	SF	Kg	SF	Kg	SF	Kg
1/2"	100	129	35	135	7	166	8.5	160	8.2	180	8.5	190	9
3/4"	100	129	35	135	7	170	8.5	170	8.2	190	8.5	200	9
1"	120	129	35	135	7	190	10	200	10.2	210	10.7	230	12
1 1/2""	160	181	52	180	15	240	16.1	250	16	260	16.5	280	17
2"	160	181	52	180	15	246	18	250	20	260	21	280	23



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the directory of flow on vertical lines must be downwards. Before welding a SW trap, remove element (4). This operation can be avoided by using arc electrod welding. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BC steam trap to the "as new from factory" condition. Unscrew the bolts (8) and remove cover (2) and gasket (3). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (3) and reinstall cover (2) tightening the bolts (8). To service the strainer, unscrew cap (7), withdraw screen (5) and clean or replace it. Screwing the cap back in place, always fit a new gasket (6). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BCS 20 F316 1" 150 RF**

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

**OFFICIAL WEB SITE:** [www.douglas-italia.com](http://www.douglas-italia.com)



DOUGLAS ITALIA S.p.A.

BIMETALLIC THERMOSTATIC

STEAM TRAPS

**BCS 40 F 316**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



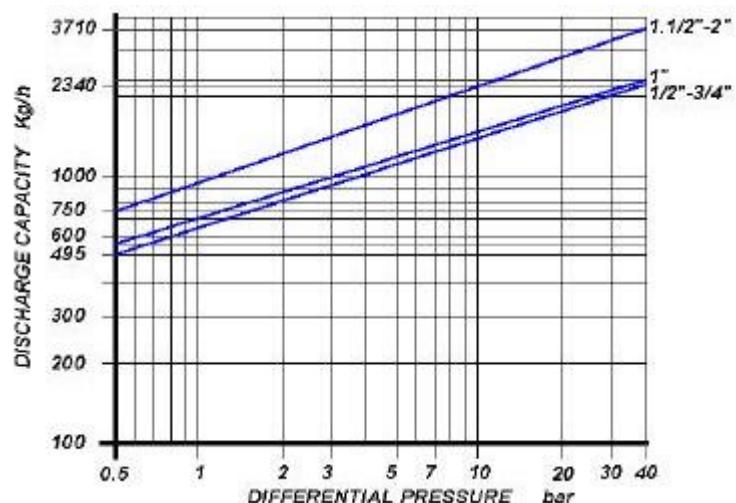
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1/2" – 3/4" – 1" – 1. 1/2" – 2"

### CONNECTIONS

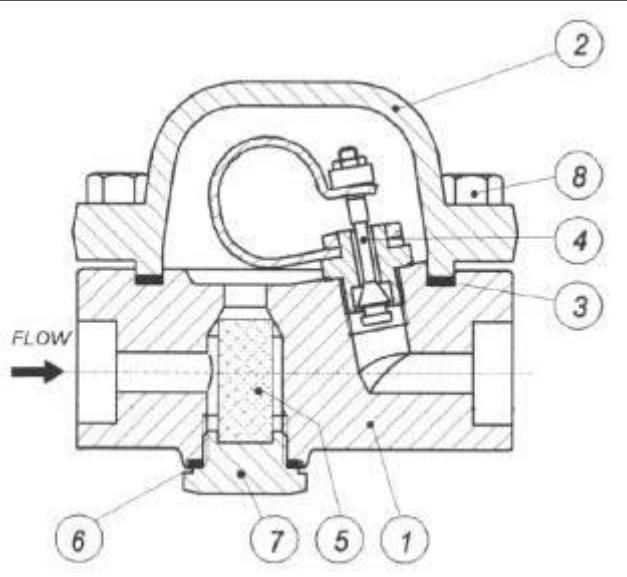
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11
FLANGED	ANSI 150# / 300# / 600# / UNI / DIN

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 800
PMA: Max allowable pressure	132 bar
TMA: max allowable temperature	500°C
PMO: max working pressure	40 bar
TMO: max working temperature	300°C

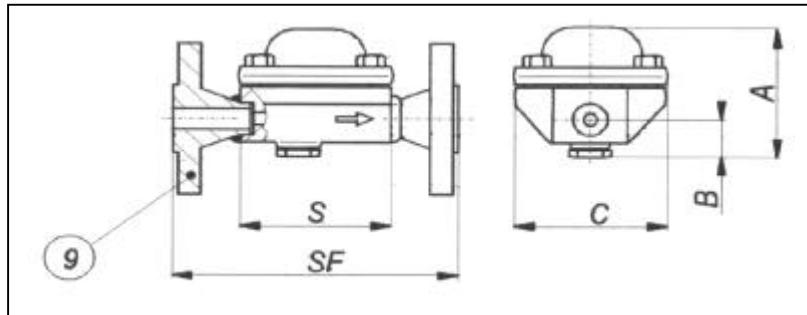
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BCS 40 F316



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A182 F316	
2	Cover	ASTM A182 F316	
3	Gasket	316 / GRAPHITE	X
4	Valve assembly	STAINLESS STEEL	X
5	Screen	AISI 304	X
6	Gasket	316 / GRAPHITE	X
7	Strainer cap	ASTM A182 F316	
8	Bolts	ASTM A193 B8	
9	Flange	ASTM A182 F316	

Size (inches)	S	A	B	C	Weight (Kg)	UNI-DN PN16-25-40		150#		300#		600#	
						SF	Kg	SF	Kg	SF	Kg	SF	Kg
1/2"	100	129	35	135	7	166	8.5	160	8.2	180	8.5	190	9
3/4"	100	129	35	135	7	170	8.5	170	8.2	190	8.5	200	9
1"	120	129	35	135	7	190	10	200	10.2	210	10.7	230	12
1 1/2""	160	181	52	180	15	240	16.1	250	16	260	16.5	280	17
2"	160	181	52	180	15	246	18	250	20	260	21	280	23



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the directory of flow on vertical lines must be downwards. Before welding a SW trap, remove element (4). This operation can be avoided by using arc electrod welding. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BC steam trap to the "as new from factory" condition. Unscrew the bolts (8) and remove cover (2) and gasket (3). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (3) and reinstall cover (2) tightening the bolts (8). To service the strainer, unscrew cap (7), withdraw screen (5) and clean or replace it. Screwing the cap back in place, always fit a new gasket (6). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BCS 20 F316 1" 150 RF**

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

**OFFICIAL WEB SITE:** [www.douglas-italia.com](http://www.douglas-italia.com)



DOUGLAS ITALIA S.p.A.

BIMETALLIC THERMOSTATIC

STEAM TRAPS

**BE 8**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



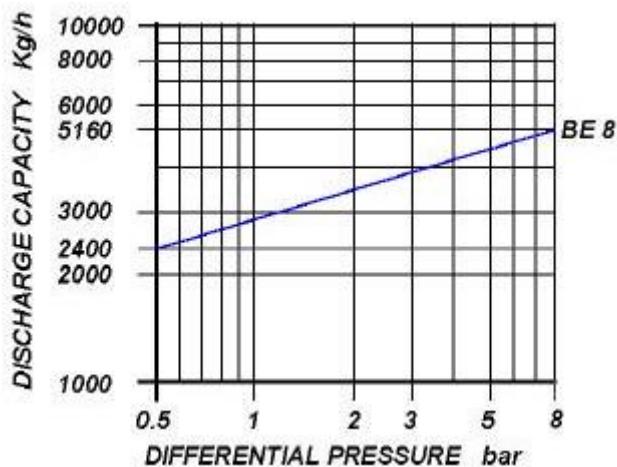
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1½" – 2"

### CONNECTIONS

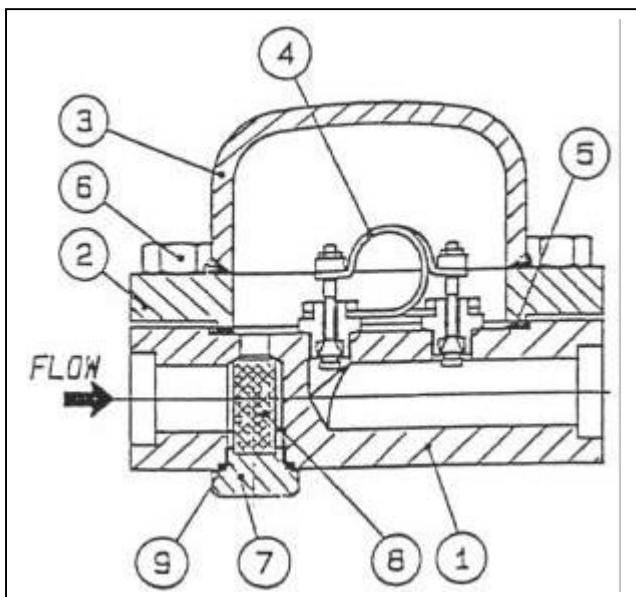
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 800
PMA: Max allowable pressure	136 bar
TMA: max allowable temperature	390°C
PMO: max working pressure (BE 8)	8 bar
TMO: max working temperature (BE 8)	250°C

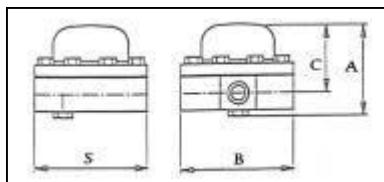
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BE 8



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A105	
2	Cover flange	ASTM A105	
3	Cover	ASTM A106 WPB	
4	Valve assembly N.2	STAINLESS STEEL	X
5	Gasket	316 / GRAPHITE	X
6	Bolts	ASTM A193 B7	
7	Strainer cap	ASTM A105	
8	Screen	AISI 304	X
9	Gasket	316 / GRAPHITE	X

Size (inches)	S	A	B	C
1½"	248.5	205	260	155
2"	248.5	205	260	155



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the direction of flow on vertical lines must be downwards. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BE steam trap to the "as new from factory" condition. Unscrew the bolts (6) and remove cover (3) and gasket (5). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (5) and reinstall cover (3) tightening the bolts (6). To service the strainer, unscrew cap (7), withdraw screen (8) and clean or replace it. Screwing the cap back in place, always fit a new gasket (9). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BE 8 2" NPT**

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

**OFFICIAL WEB SITE:** [www.douglas-italia.com](http://www.douglas-italia.com)



DOUGLAS ITALIA S.p.A.

**BIMETALLIC THERMOSTATIC  
STEAM TRAPS  
BE 20**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



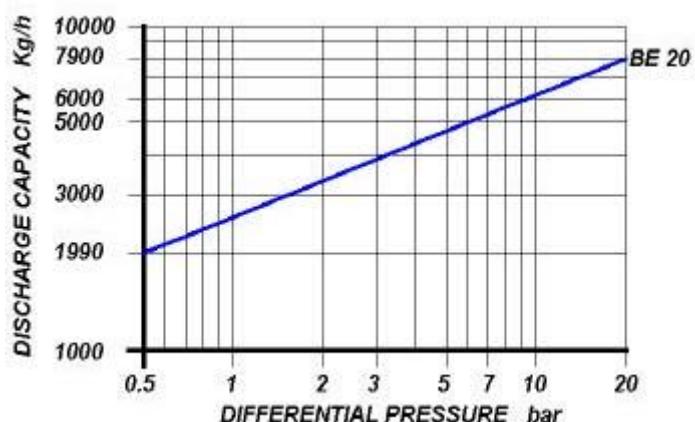
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1½" – 2"

### CONNECTIONS

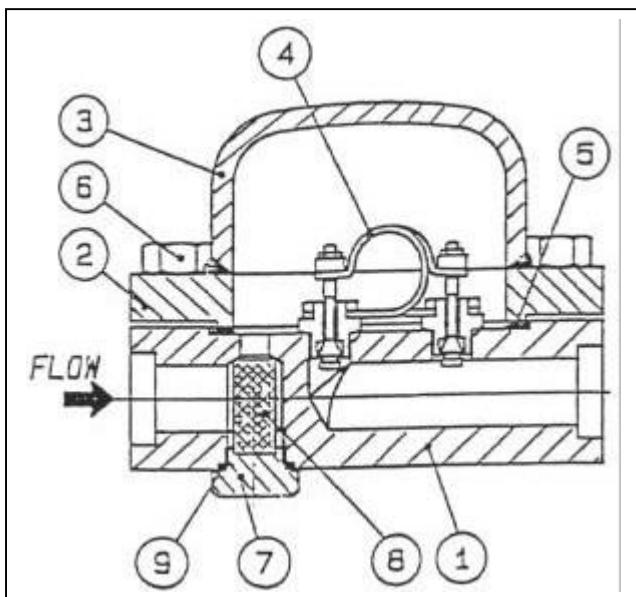
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 800
PMA: Max allowable pressure	136 bar
TMA: max allowable temperature	390°C
PMO: max working pressure (BE 20)	20 bar
TMO: max working temperature (BE 20)	275°C

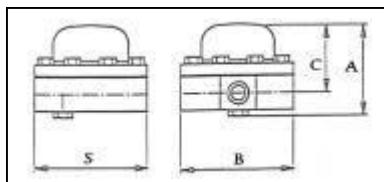
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BE 20



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A105	
2	Cover flange	ASTM A105	
3	Cover	ASTM A106 WPB	
4	Valve assembly N.2	STAINLESS STEEL	X
5	Gasket	316 / GRAPHITE	X
6	Bolts	ASTM A193 B7	
7	Strainer cap	ASTM A105	
8	Screen	AISI 304	X
9	Gasket	316 / GRAPHITE	X

Size (inches)	S	A	B	C
1½"	248.5	205	260	155
2"	248.5	205	260	155



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the direction of flow on vertical lines must be downwards. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BE steam trap to the "as new from factory" condition. Unscrew the bolts (6) and remove cover (3) and gasket (5). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (5) and reinstall cover (3) tightening the bolts (6). To service the strainer, unscrew cap (7), withdraw screen (8) and clean or replace it. Screwing the cap back in place, always fit a new gasket (9). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BE 20 2" NPT**

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

**OFFICIAL WEB SITE:** [www.douglas-italia.com](http://www.douglas-italia.com)



DOUGLAS ITALIA S.p.A.

**BIMETALLIC THERMOSTATIC  
STEAM TRAPS  
BE 30**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



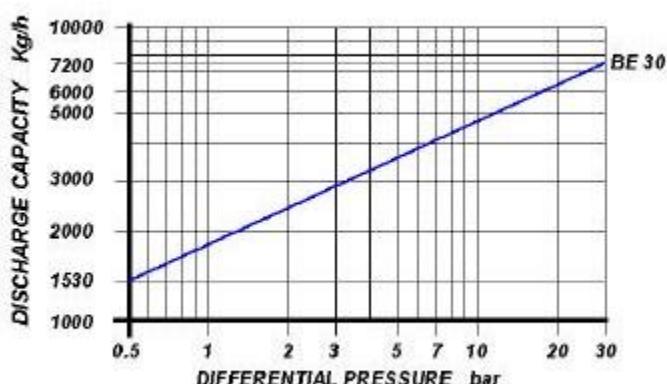
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1½" – 2"

### CONNECTIONS

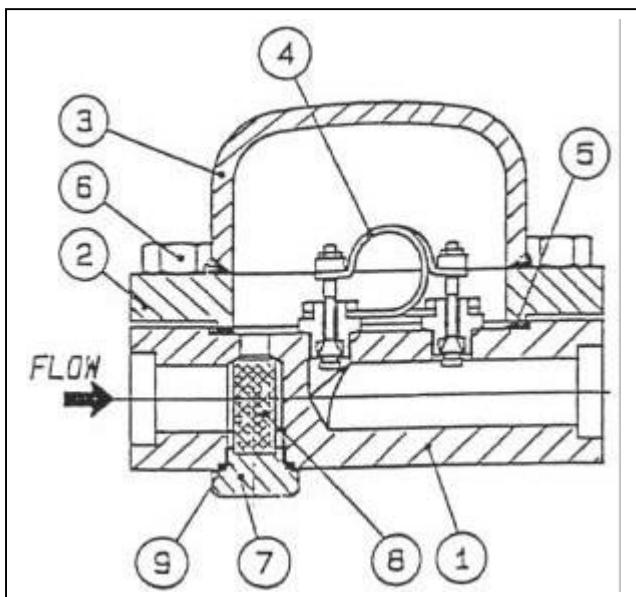
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11

### LIMITING CONDITIONS ( according to ISO 6552 )

Steam Trap rating	ANSI 800
PMA: Max allowable pressure	136 bar
TMA: max allowable temperature	390°C
PMO: max working pressure (BE 30)	30 bar
TMO: max working temperature (BE 30)	300°C

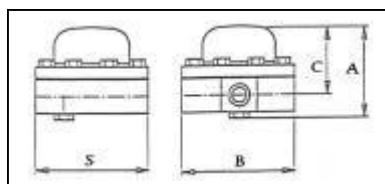
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BE 30



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A105	
2	Cover flange	ASTM A105	
3	Cover	ASTM A106 WPB	
4	Valve assembly N.2	STAINLESS STEEL	X
5	Gasket	316 / GRAPHITE	X
6	Bolts	ASTM A193 B7	
7	Strainer cap	ASTM A105	
8	Screen	AISI 304	X
9	Gasket	316 / GRAPHITE	X

Size (inches)	S	A	B	C
1½"	248.5	205	260	155
2"	248.5	205	260	155



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the direction of flow on vertical lines must be downwards. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BE steam trap to the "as new from factory" condition. Unscrew the bolts (6) and remove cover (3) and gasket (5). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (5) and reinstall cover (3) tightening the bolts (6). To service the strainer, unscrew cap (7), withdraw screen (8) and clean or replace it. Screwing the cap back in place, always fit a new gasket (9). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BE 30 2" NPT**

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

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DOUGLAS ITALIA S.p.A.

**BIMETALLIC THERMOSTATIC  
STEAM TRAPS  
BE 40**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



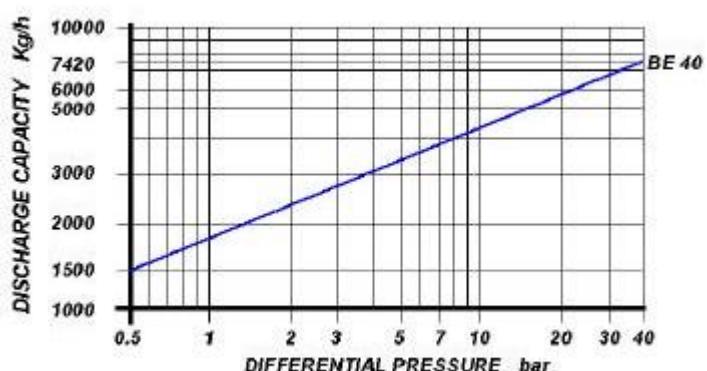
### MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1½" – 2"

### CONNECTIONS

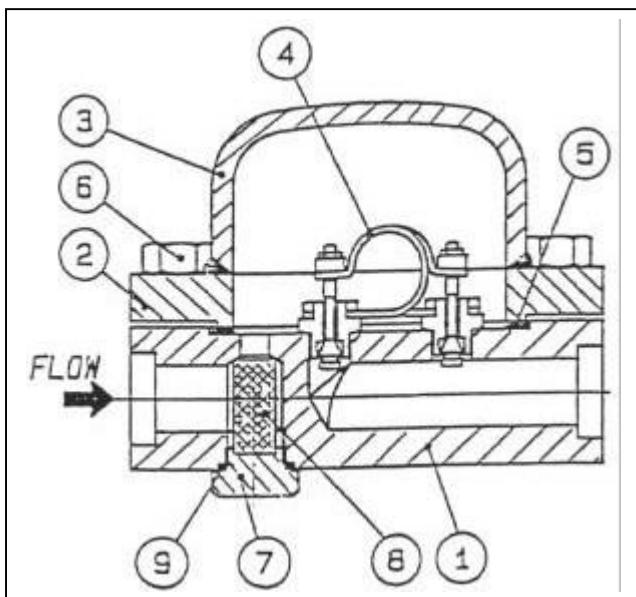
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 800
PMA: Max allowable pressure	136 bar
TMA: max allowable temperature	390°C
PMO: max working pressure (BE 40)	40 bar
TMO: max working temperature (BE 40)	300°C

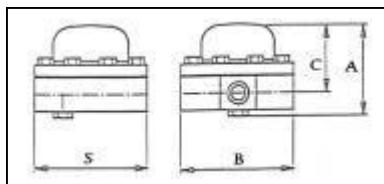
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### BE 40



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A105	
2	Cover flange	ASTM A105	
3	Cover	ASTM A106 WPB	
4	Valve assembly N.2	STAINLESS STEEL	X
5	Gasket	316 / GRAPHITE	X
6	Bolts	ASTM A193 B7	
7	Strainer cap	ASTM A105	
8	Screen	AISI 304	X
9	Gasket	316 / GRAPHITE	X

Size (inches)	S	A	B	C
1½"	248.5	205	260	155
2"	248.5	205	260	155



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the direction of flow on vertical lines must be downwards. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the BE steam trap to the "as new from factory" condition. Unscrew the bolts (6) and remove cover (3) and gasket (5). Unscrew and remove the element (4). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (5) and reinstall cover (3) tightening the bolts (6). To service the strainer, unscrew cap (7), withdraw screen (8) and clean or replace it. Screwing the cap back in place, always fit a new gasket (9). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. BE 40 2" NPT**

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

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DOUGLAS ITALIA S.p.A.

BIMETALLIC THERMOSTATIC

STEAM TRAPS

MP

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.

### MAIN FEATURES

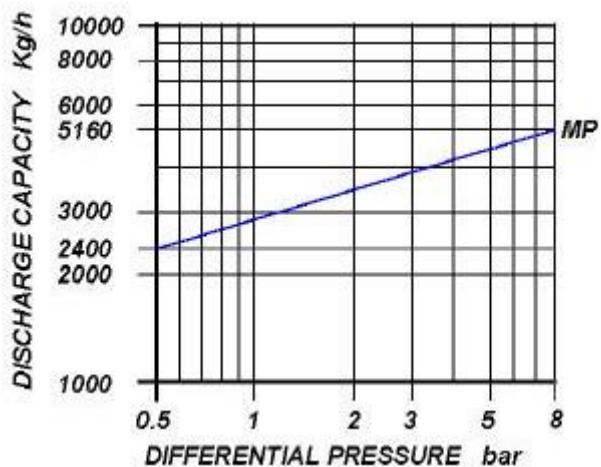


Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

1½" – 2"

### CONNECTIONS

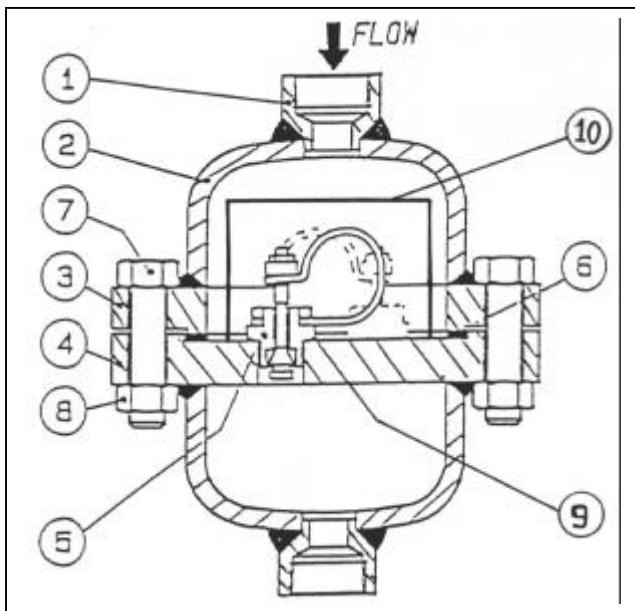
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11
FLANGED	ANSI 150#/300#/600#/UNI/DIN

### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 800
PMA: Max allowable pressure	136 bar
TMA: max allowable temperature	390°C
PMO: max working pressure (MP 8)	8 bar
TMO: max working temperature (MP 8)	250°C
<b>NB: MP model are available for differential pressure up to 40 bar, size up to 8" for high capacity.</b>	
<i>Please contact our technical department.</i>	

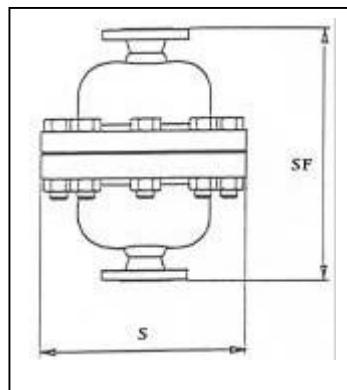
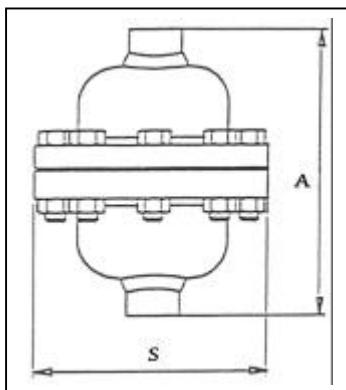
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### MP



POS.	DESCRIPTION	MATERIALS	SPARES
1	Connections	ASTM A105	
2	Caps	ASTM A106 WPB	
3	Flange	ASTM A105	
4	Flange	ASTM A105	
5	Valve assembly N° 2	STALESS STEEL	X
6	Gasket	316 / GRAPHITE	X
7	Bolts	ASTM A193 B7	
8	Nuts	ASTM A194 2H	
9	Gasket	S.S 304	X
10	Screen	AISI 304	X

Size (inches)	Flanged										
	UNI-DIN PN16-25-40		150#		300#		600#				
	SF	Kg	SF	Kg	SF	Kg	SF	Kg	SF	Kg	
1½"	260	315	34	350	40	350	40	350	40	350	40
2"	260	315	38	350	44	350	44	350	44	350	44



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. For installation with superheated steam, please contact our Technical Department.

#### HOW TO SERVICE

By installing a new element assembly you can bring the MP steam trap to the "as new from factory" condition. Unscrew the bolts (7) and remove cover (2), remove gasket (6) and screen (10). Unscrew and remove the element (5). Clean the inside of the trap and screw in the element-gasket assembly, clean screen (10). Fit a new gasket (6), fit screen (10) and reinstall cover (2) tightening the bolts (7). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. MP 8 2" 150 RF**

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

**OFFICIAL WEB SITE:** [www.douglas-italia.com](http://www.douglas-italia.com)



DOUGLAS ITALIA S.p.A.

BIMETALLIC THERMOSTATIC

STEAM TRAPS

**MF 8**

### BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force ( pressure related ) trying to open the discharge valve and the bimetal force ( temperature related ) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.

### MAIN FEATURES

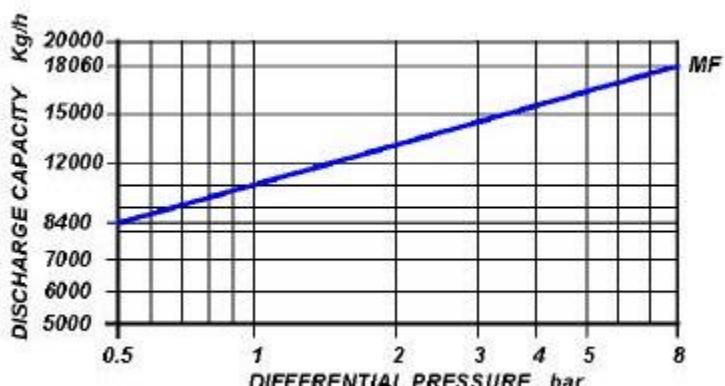
Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.



### APPLICATIONS

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

### DISCHARGE CAPACITY



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

### SIZES

4"

### CONNECTIONS

FLANGED

ANSI 150#/300#/600#/UNI/DIN

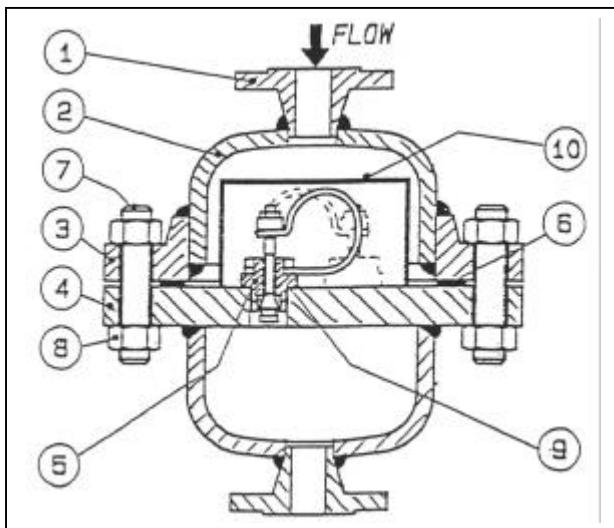
### LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 300
PMA: Max allowable pressure	50 bar
TMA: max allowable temperature	390°C
PMO: max working pressure	8 bar
TMO: max working temperature	250°C

**NB: MF model are available for differential pressure up to 40 bar, size up to 8" for high capacity.**  
**Please contact our technical department.**

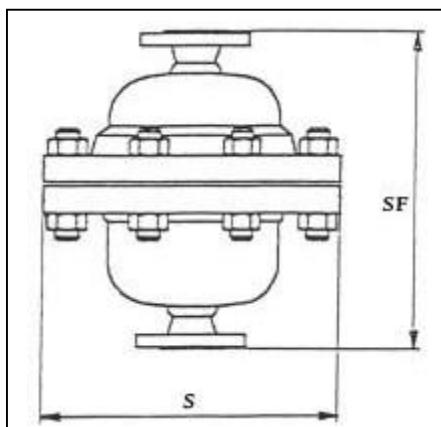
## BIMETALLIC THERMOSTATIC STEAM TRAPS

### MF 8



POS.	DESCRIPTION	MATERIALS	SPARES
1	Connections	ASTM A105	
2	Caps	ASTM A106 WPB	
3	Flange	ASTM A105	
4	Flange	ASTM A105	
5	Valve assembly N° 7	STALESS STEEL	X
6	Gasket	316 / GRAPHITE	X
7	Bolts	ASTM A193 B7	
8	Nuts	ASTM A194 2H	
9	Gasket	S.S 304	X
10	Screen	AISI 304	X

Size (inches)	S	Weight (Kg)	UNI-DIN PN16-25-40 SF Kg	150#		300#		600#	
				SF	Kg	SF	Kg	SF	Kg
4"	521	162	515 176	515	176	515	186	515	200



#### INSTALLATION

The steam trap can be installed on horizontal or vertical lines. For installation with superheated steam, please contact our Technical Department

#### HOW TO SERVICE

By installing a new element assembly you can bring the MF 8 steam trap to the "as new from factory" condition. Unscrew the bolts (7) and remove cover (2), remove gasket (6) and screen (10). Unscrew and remove the element (5). Clean the inside of the trap and screw in the element-gasket assembly, clean screen (10). Fit a new gasket (6), fit screen (10) and reinstall cover (2) tightening the bolts (7). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only by qualified personnel, please ask our Technical Department.

**How to order: i.e. MF 8 4" 150 RF**

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

**OFFICIAL WEB SITE:** [www.douglas-italia.com](http://www.douglas-italia.com)