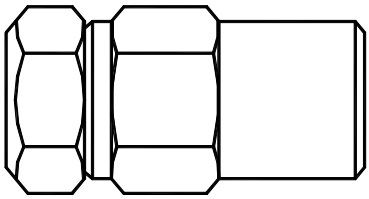
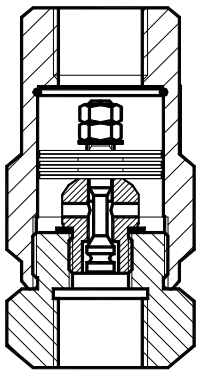
# BIMETALLIC STEAM TRAPS AND AIR ELIMINATORS
# BSS 20

DESCRIPTION
BSS20 all stainless steel bimetallic steam traps and air eliminators are simple and robust traps, specially suited for instrument tracing, line tracing applications and where condensate sensible heat can be recover. It is specially recommended as air eliminator.
The use of condensate sensible heat reduces the steam consumption.
Connections are female screwed.

MAIN FEATURES
Modulating discharge.
Discharges condensate below steam temperature.
Excellent air discharge.
Operates on superheated steam.
Unaffected by water hammer and vibrations.
Built-in strainer.



| | |
|---|---|
| OPTIONS: | EN1092-1 or ANSI flanged connections. |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | BSS 20 |
| SIZES: | DN ½" |
| CONNECTIONS: | Female screwed ISO 7/1 Rp (BS21) ANSI B1.20.1 (NPT) |
| INSTALLATION: | Horizontal or vertical installation. See IMI installation and maintenance instructions. |



| BODY LIMITING CONDITIONS | |
|---|---|
| THREADED PN 40 ALLOW. PRES. | RELATED TEMP. |
| 34,4 bar | 100 ºC |
| 30,8 bar | 150 ºC |
| 28 bar | 200 ºC |
| 26 bar | 250 ºC |

PMO - Max. operating pressure 20 bar
TMO - Max. operating temperature 250 ºC

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE DN | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | |
| | | 0,6 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 13 | 15 | 20 |
| BSS20 | 15 A | 45 | 65 | 100 | 130 | 155 | 170 | 195 | 205 | 220 | 245 | 255 | 270 | 330 |
| BSS20 | 15 B | 150 | 230 | 350 | 440 | 490 | 540 | 630 | 650 | 680 | 730 | 820 | 980 | 1120 |

**A** = Condensate discharge at 10ºC below saturation temperature. **B** = Cold water capacity at about 20ºC.

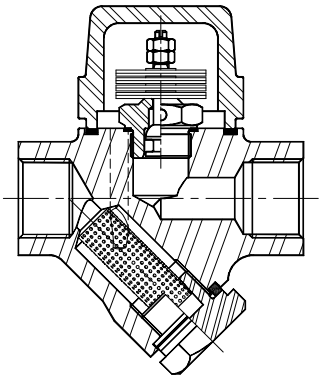
# BIMETALLIC STEAM TRAPS AND AIR ELIMINATORS
# BM 20
# (DN ½" – 1"; DN 15 – 25)

DESCRIPTION

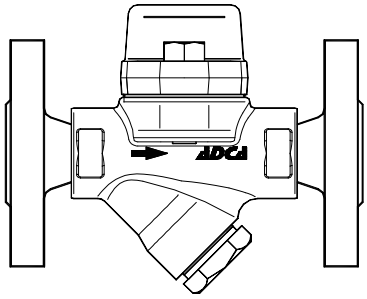
BM20 series bimetallic steam traps and air eliminators are simple and robust traps, recommended for steam process applications where condensate sensible heat can be recovered, steam tracing lines, drip points, storage tank coils, steam air venting, etc. The use of condensate sensible heat reduces the steam consumption.
Connections are female screwed or flanged.

MAIN FEATURES

Modulating discharge.
Discharges condensate below steam temperature.
Excellent air discharge.
Operates on superheated steam.
Unaffected by water hammer and vibrations.
Built-in strainer.



| | |
|---|---|
| OPTIONS: | Blowdown valve |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | BM20 |
| SIZES: | DN ½" to 1"; DN15 to DN25. |
| CONNECTIONS: | Female screwed ISO 7/1 Rp (BS21)<br>Flanged EN1092-1 PN40 or ANSI |
| INSTALLATION: | Horizontal installation recommended, can be installed in any position.<br>See IMI installation and maintenance instructions. |




| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN40 / ANSI 300 * | FLANGED ANSI 150 ** | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | |
| 40 bar | 19,3 bar | 50 ºC |
| 35 bar | 15,8 bar | 150 ºC |
| 30,4 bar | 12,1 bar | 250 ºC |
| 27,6 bar | 10,2 bar | 300 ºC |

PMO - Max. operating pressure 17 bar
TMO - Max. operating temperature 250 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread, SW and BW.

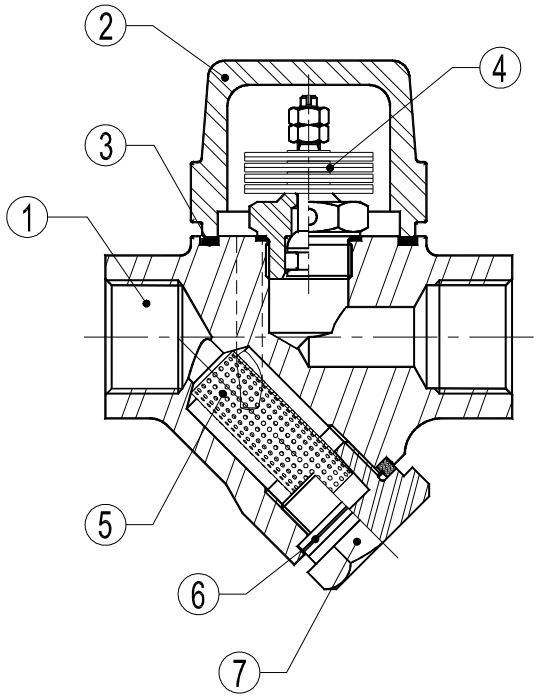
| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE DN | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | |
| | | 0,5 | 1 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 17 |
| BM20 | 15 - 25 A | 125 | 200 | 320 | 410 | 445 | 485 | 500 | 540 | 580 | 600 |
| BM20 | 15 - 25 B | 450 | 700 | 1000 | 1220 | 1340 | 1450 | 1560 | 1650 | 1780 | 1850 |

**A** = Condensate discharge at 10ºC below saturation temperature. **B** = Cold water capacity at about 20ºC.





Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.410 E 01.08

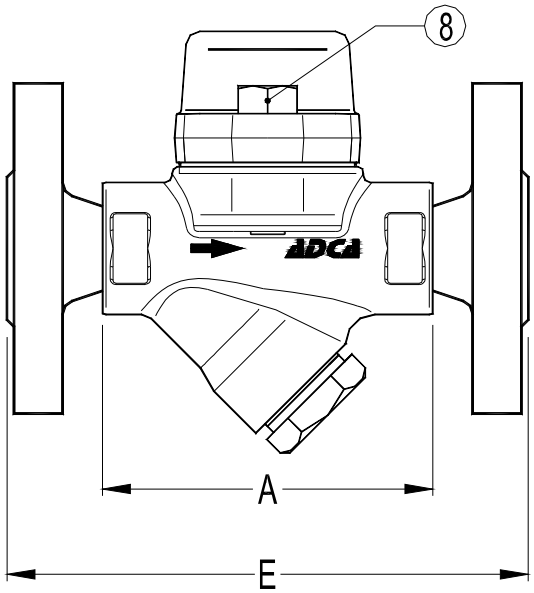


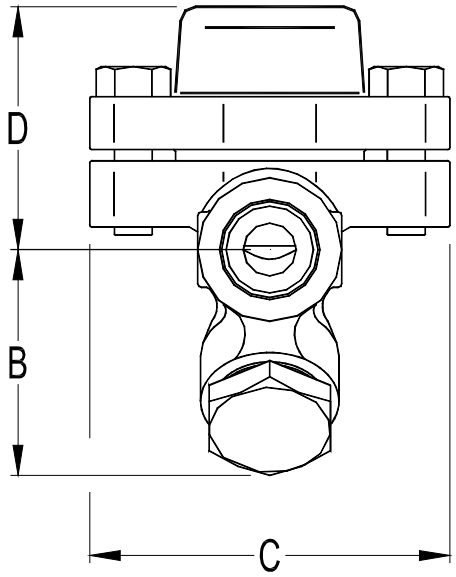

| MATERIALS | | |
|---|---|---|
| POS.Nr. | DESIGNATION | MATERIAL |
| 1 | Body | P250GH / 1.0460 |
| 2 | Cover | P250GH / 1.0460 |
| 3 | * Gasket | St.St./Graphite |
| 4 | * Valve assy. | Bimetal |
| 5 | * Strainer screen | AISI304 / 1.4301 |
| 6 | * Gasket | St.steel / Graphite |
| 7 | * Cover strainer | A 105 / 1.0432 |
| 8 | Bolts | A2-70 |

* Available spare parts

| DIMENSIONS (mm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Screwed and SW* | | | | | | EN PN16/PN40 | | ANSI 150 | | ANSI 300 | |
| SIZE DN | A | B | C | D | WGT. Kgs | E | WGT. Kgs | E | WGT. Kgs | E | WGT. Kgs |
| 15-1/2" | 95 | 59 | 95 | 65 | 1,6 | 150 | 3,2 | 150 | 2,7 | 150 | 3,5 |
| 20-3/4" | 95 | 59 | 95 | 65 | 1,6 | 150 | 3,9 | 150 | 3,1 | 150 | 4,7 |
| 25-1" | 95 | 65 | 95 | 65 | 1,8 | 160 | 4,7 | 160 | 4,3 | 160 | 5,9 |

* BW (butt weld) on request.



# BIMETALLIC STEAM TRAPS AND AIR ELIMINATORS
# BM 20 R
# (With external adjustable temperature control)

DESCRIPTION

BM20R series bimetallic steam traps and air eliminators are simple and robust traps, recommended for steam process applications where condensate sensible heat can be recovered, steam tracing lines, drip points, storage tank coils, steam air venting, etc. The use of condensate sensible heat reduces the steam consumption.
Connections are female screwed or flanged.

MAIN FEATURES

Modulating discharge.
Discharges condensate below steam temperature.
Easy condensate temperature adjustment without disconnecting the trap from the piping.
Independent valve and seat placed in the low velocity flow area reduces erosion and extend product life.
Low maintenance costs consequence of the split regulator design.
Excellent air discharge.
Freeze protection of condensate lines.
Operates on superheated steam.
Unaffected by water hammer and vibrations.
Built-in strainer.

| | |
|---|---|
| OPTIONS: | Blowdown valve<br>Seat with check valve |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | BM20R |
| SIZES: | DN ½" to 1" ; DN15 to DN25. |
| CONNECTIONS: | Female screwed ISO 7/1 Rp (BS21)<br>Flanged EN 1092-1 PN40 or ANSI |
| INSTALLATION: | Horizontal installation recommended, can be installed in any position.<br>See IMI installation and maintenance instructions. |

| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN40 / ANSI 300 * | FLANGED ANSI 150 ** | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | |
| 40 bar | 19,3 bar | 50 ºC |
| 35 bar | 15,8 bar | 150 ºC |
| 30,4 bar | 12,1 bar | 250 ºC |
| 27,6 bar | 10,2 bar | 300 ºC |

PMO - Max. operating pressure 17 bar
TMO - Max. operating temperature 250 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread, SW and BW.

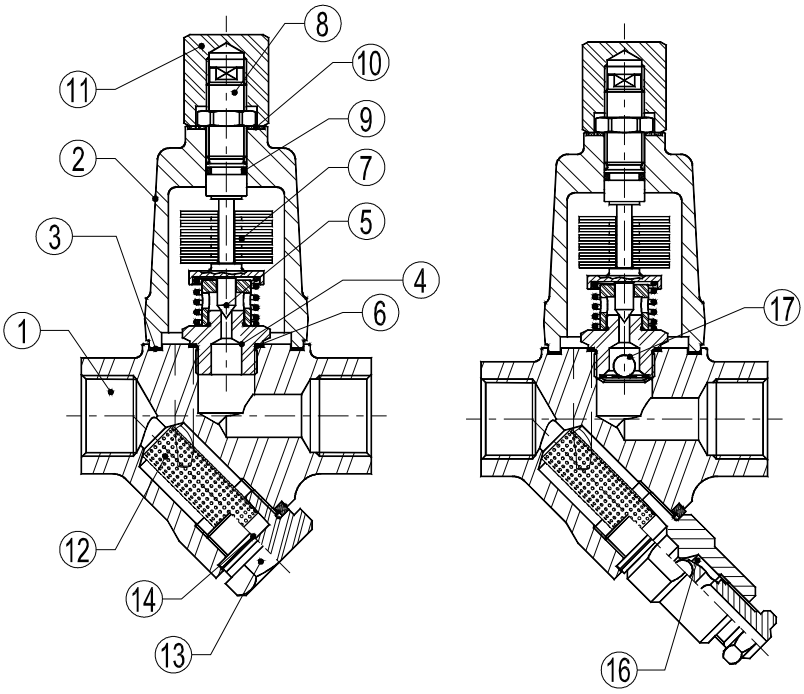
| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE DN | * TEMP. ºC | DIFFERENTIAL PRESSURE (bar) | | | | | | | | |
| | | | 0,5 | 1 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 17 |
| BM 20 R | 15 - 25 | 10 ** | 125 | 200 | 320 | 410 | 445 | 485 | 500 | 540 | 580 | 600 |
| BM 20 R | 15 - 25 | 20 | 200 | 300 | 440 | 550 | 580 | 600 | 620 | 670 | 700 | 720 |
| BM 20 R | 15 - 25 | 40 | 380 | 500 | 700 | 970 | 990 | 1010 | 1050 | 1100 | 1130 | 1180 |
| BM 20 R | 15 - 25 | COLD | 530 | 700 | 1230 | 1210 | 1320 | 1440 | 1650 | 1730 | 1780 | 1840 |

* Condensate discharge temperature below saturation temperature.
** Standard factory setting





Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.415 E 01.08

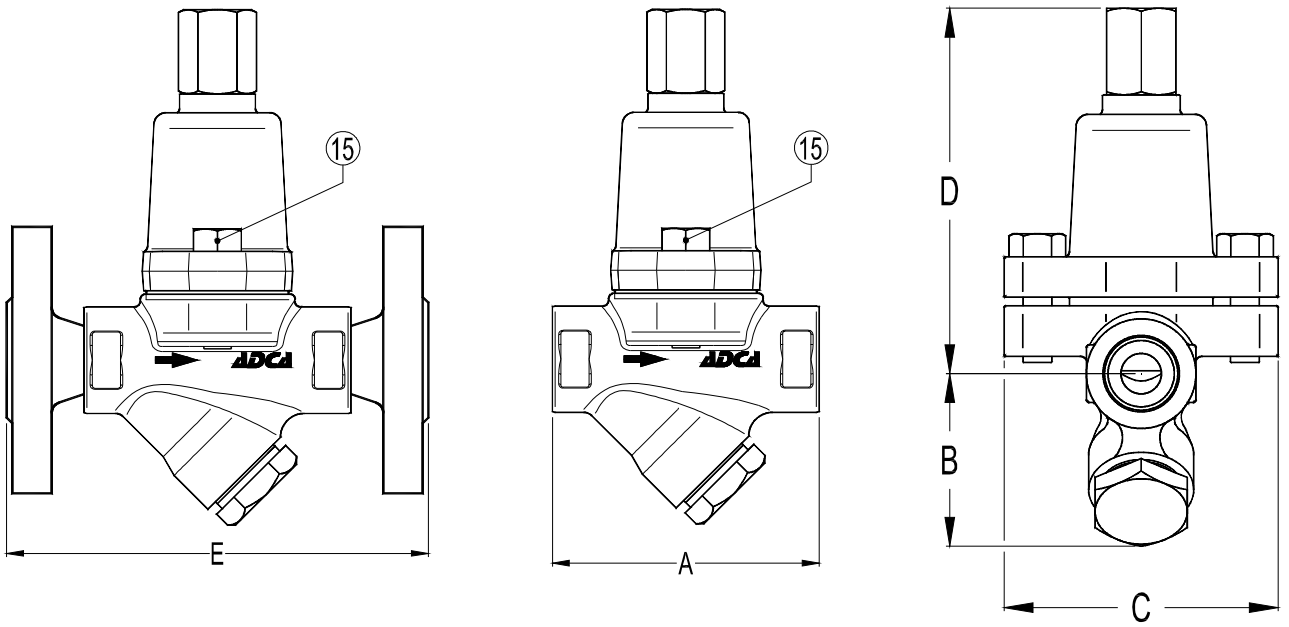



| MATERIALS | | |
|---|---|---|
| ***POS.Nr.*** | ***DESIGNATION*** | ***MATERIAL*** |
| 1 | Body | P250GH / 1.0460 |
| 2 | Cover | P250GH / 1.0460 |
| 3 | * Gasket | St.St./Graphite |
| 4 | * Seat | Hardened St.Steel |
| 5 | * Plug | Hardened St.Steel |
| 6 | * Seat gasket | Copper |
| 7 | * Regulator | Bimetal |
| 8 | Adjusting screw | AISI 304 / 1.4301 |
| 9 | Seal ring | Viton |
| 10 | * Gasket | Copper |
| 11 | Cap nut | AISI 304 / 1.4301 |
| 12 | * Strainer screen | AISI 304 / 1.4301 |
| 13 | Cover strainer | A 105 / 1.0432 |
| 14 | * Gasket | St.St./Graphite |
| 15 | Bolts | A2-70 |
| 16 | * Blowdown valve | AISI304 ( See IS 1.1150 ) |
| 17 | Ball check valve | AISI 440C / 1.4125 |

* Available spare parts

| DIMENSIONS (mm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Screwedand SW * | | | | | | EN PN16/40 | | ANSI 150 | | ANSI 300 | |
| ***SIZE DN*** | ***A*** | ***B*** | ***C*** | ***D*** | ***WGT. Kgs*** | ***E*** | ***WGT. Kgs*** | ***E*** | ***WGT. Kgs*** | ***E*** | ***WGT. Kgs*** |
| 15-1/2" | 95 | 59 | 95 | 125 | 2,3 | 150 | 3,9 | 150 | 3,4 | 150 | 4,2 |
| 20-3/4" | 95 | 59 | 95 | 125 | 2,3 | 150 | 4,7 | 150 | 3,9 | 150 | 5,5 |
| 25-1" | 95 | 65 | 95 | 125 | 2,5 | 160 | 5,1 | 160 | 4,7 | 160 | 6,3 |

* BW (butt wel) on request.



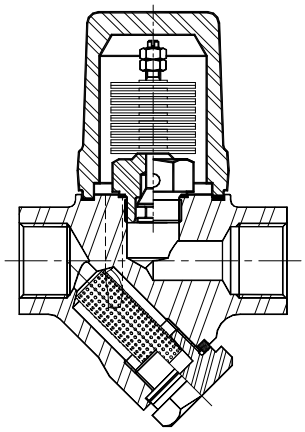
# BIMETALLIC STEAM TRAPS AND AIR ELIMINATORS
# BM 24
# (DN ½" – 1"; DN 15 – 25)

DESCRIPTION

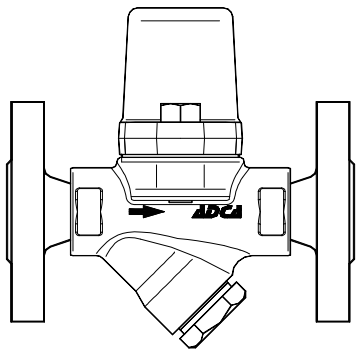
BM24 series bimetallic steam traps and air eliminators are simple and robust traps, recommended for steam process applications where condensate sensible heat can be recovered, steam tracing lines, drip points, storage tank coils, steam air venting, etc. The use of condensate sensible heat reduces the steam consumption.
Connections are female screwed or flanged.

MAIN FEATURES

Modulating discharge.
Discharges condensate below steam temperature.
Excellent air discharge.
Operates on superheated steam.
Unaffected by water hammer and vibrations.
Built-in strainer.



| | |
|---|---|
| OPTIONS: | Blowdown valve |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | BM24 |
| SIZES: | DN ½" to 1"; DN15 to DN25. |
| CONNECTIONS: | Female screwed ISO 7/1 Rp (BS21)<br>Flanged EN 1092-1 PN40 or ANSI |
| INSTALLATION: | Horizontal installation recommended, can be installed in any position.<br>See IMI installation and maintenance instructions. |



**BODY LIMITING CONDITIONS**

| FLANGED PN40 / ANSI 300 * | FLANGED ANSI 150 ** | RELATED TEMP. |
|---|---|---|
| ALLOW. PRES. | ALLOW. PRES. | |
| 40 bar | 19,3 bar | 50 ºC |
| 35 bar | 15,8 bar | 150 ºC |
| 30,4 bar | 12,1 bar | 250 ºC |
| 27,6 bar | 10,2 bar | 300 ºC |

PMO - Max. operating pressure 24 bar
TMO - Max. operating temperature 250 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread, SW and BW.

**FLOW RATE CAPACITY IN Kgs/h**

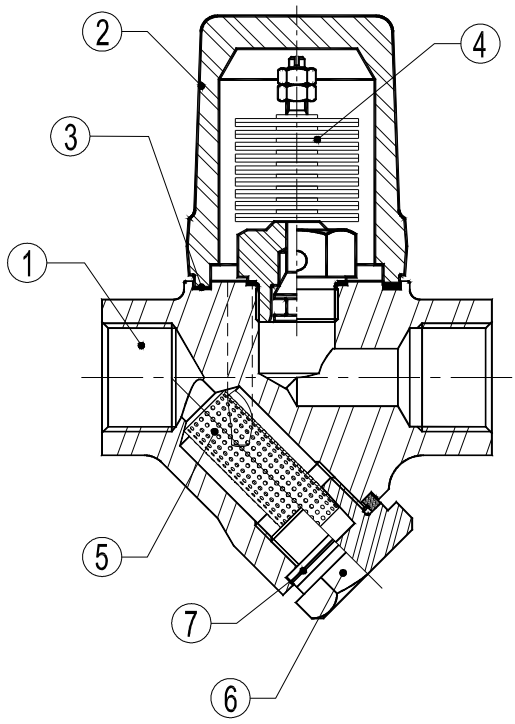
| MODEL | SIZE DN | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0,5 | 1 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| BM24 | 15 - 25 A | 225 | 350 | 490 | 650 | 720 | 795 | 820 | 850 | 880 | 900 | 905 | 910 | 915 | 925 |
| BM24 | 15 - 25 B | 550 | 800 | 1100 | 1500 | 1750 | 1825 | 2000 | 2100 | 2175 | 2235 | 2390 | 2490 | 2585 | 2680 |

**A** = Condensate discharge at 10ºC below saturation temperature. **B** = Cold water capacity at about 20ºC.





Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.423 E 01.08

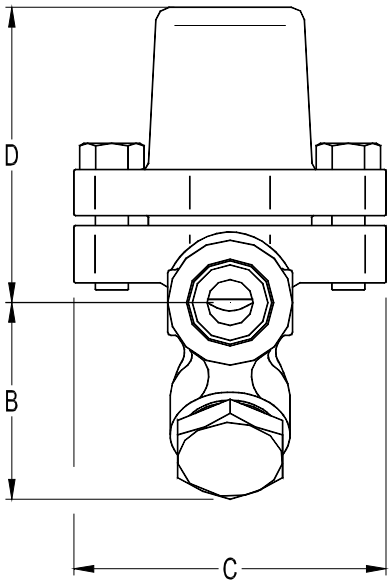


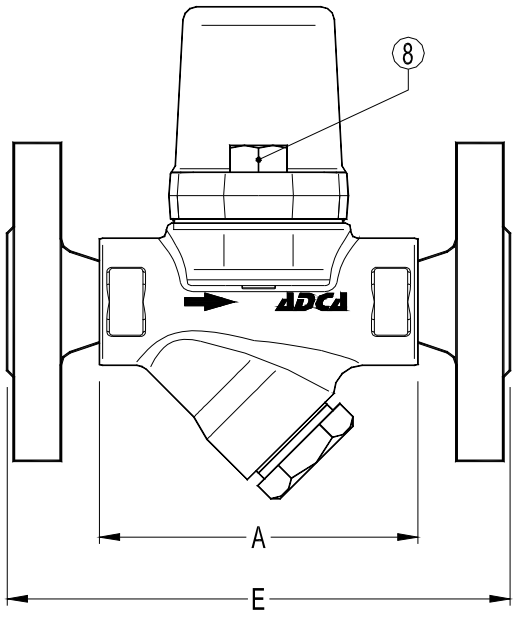

| MATERIALS | | |
|---|---|---|
| ***POS.Nr.*** | ***DESIGNATION*** | ***MATERIAL*** |
| 1 | Body | P250GH / 1.0460 |
| 2 | Cover | P250GH / 1.0460 |
| 3 | * Gasket | St.St./Graphite |
| 4 | * Valve assy. | Bimetal |
| 5 | * Strainer screen | AISI304 / 1.4301 |
| 6 | * Cover strainer | A 105 / 1.0432 |
| 7 | * Gasket | Stainless st./Graphite |
| 8 | Bolts | A2-70 |

* Available spare parts

| DIMENSIONS (mm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Screwed and SW * | | | | | | EN PN16/40 | | ANSI 150 | | ANSI 300 | |
| ***SIZE DN*** | ***A*** | ***B*** | ***C*** | ***D*** | ***WGT. Kgs*** | ***E*** | ***WGT. Kgs*** | ***E*** | ***WGT. Kgs*** | ***E*** | ***WGT. Kgs*** |
| 15-1/2" | 95 | 59 | 95 | 90 | 2,1 | 150 | 3,7 | 150 | 3,2 | 150 | 4 |
| 20-3/4" | 95 | 59 | 95 | 90 | 2,1 | 150 | 4,5 | 150 | 3,7 | 150 | 5,3 |
| 25-1" | 95 | 65 | 95 | 90 | 2,1 | 160 | 4,9 | 160 | 4,5 | 160 | 6,1 |

* BW (butt weld) on request.



# BIMETALLIC STEAM TRAPS AND AIR ELIMINATORS
# BM 24
# (DN40 – DN50)

DESCRIPTION

BM24 series bimetallic steam traps and air eliminators are simple and robust traps, recommended for steam process applications where condensate sensible heat can be recovered, steam tracing lines, drip points, storage tank coils, steam air venting, etc. The use of condensate sensible heat reduces the steam consumption.
Connections are female screwed or flanged.

MAIN FEATURES

Modulating discharge.
Discharges condensate below steam temperature.
Excellent air discharge.
Operates on superheated steam.
Unaffected by water-hammer and vibrations.
Built-in strainer.

| | |
|---|---|
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | BM24 |
| SIZES: | DN11/2" – DN2"; DN 40 - DN 50 |
| CONNECTIONS: | Female screwed BSP or NPT<br>Flanged EN 1092-1 PN40 or ANSI<br>SW - Socket weld to ANSI B 16.11<br>BW - Butt weld to ANSI B16.25 |
| INSTALLATION: | Horizontal installation<br>See IMI installation and maintenance instructions. |

| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN40 / ANSI 300 * | FLANGED ANSI 150 ** | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | |
| 40 bar | 19,3 bar | 50 ºC |
| 35 bar | 15,8 bar | 150 ºC |
| 30,4 bar | 12,1 bar | 250 ºC |
| 27,6 bar | 10,2 bar | 300 ºC |

PMO - Max. operating pressure 24 bar
TMO - Max. operating temperature 250 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread, SW and BW.

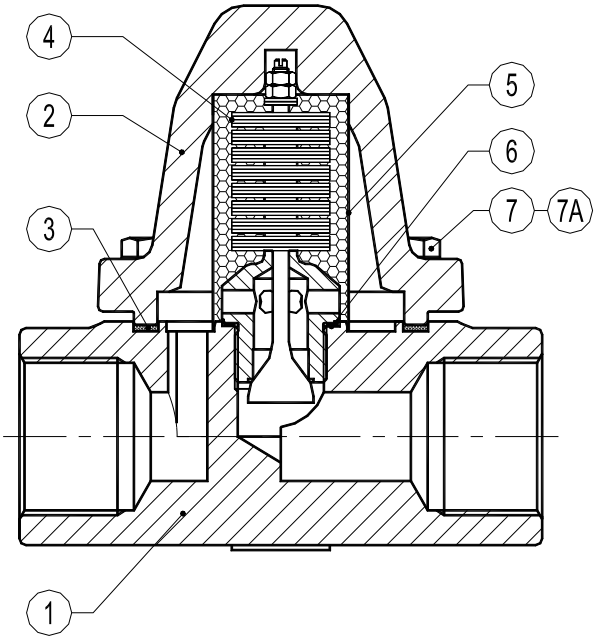
| CE MARKING (PED - European Directive 97/23/EC) | | |
|---|---|---|
| ANSI 150# | PN 40 ANSI 300# | Category |
| / | DN40 - DN50 | 1 (CE Marked) |
| DN11/2" - 2" | / | SEP |

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | |
| | | 0,5 | 1 | 2 | 4 | 6 | 8 | 10 | 12 | 16 | 18 | 20 | 24 |
| BM 24 | 40 - 50 A | 700 | 900 | 1200 | 1450 | 1600 | 1700 | 1780 | 1880 | 1900 | 1950 | 2020 | 2100 |
| BM 24 | 40 - 50 B | 1900 | 2400 | 3500 | 4900 | 5500 | 6050 | 7000 | 7200 | 7800 | 8400 | 8800 | 9000 |

**A** = Condensate discharge at 10ºC below saturation temperature. **B** = Cold water capacity at about 20ºC.

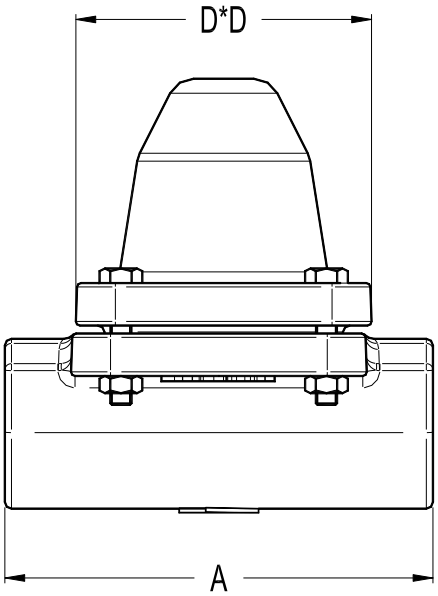
| MATERIALS | | |
|---|---|---|
| **POS. Nr.** | **DESIGNATION** | **MATERIAL** |
| 1 | Body | ASTM A105 / 1.0432 (Equiv.P250GH) |
| 2 | Cover | ASTM A105 / 1.0432 (Equiv.P250GH) |
| 3 | * Gasket | St.St./Graphite |
| 4 | * Valve assembly | Hardened St.Steel / Bimetal |
| 5 | * Strainer screen | AISI304 / 1.4301 |
| 6 | * Seat gasket | Copper |
| 7 | Studs | ASTM A193 Gr.B7 |
| 7A | Nuts | ASTM A194 Gr.2H |

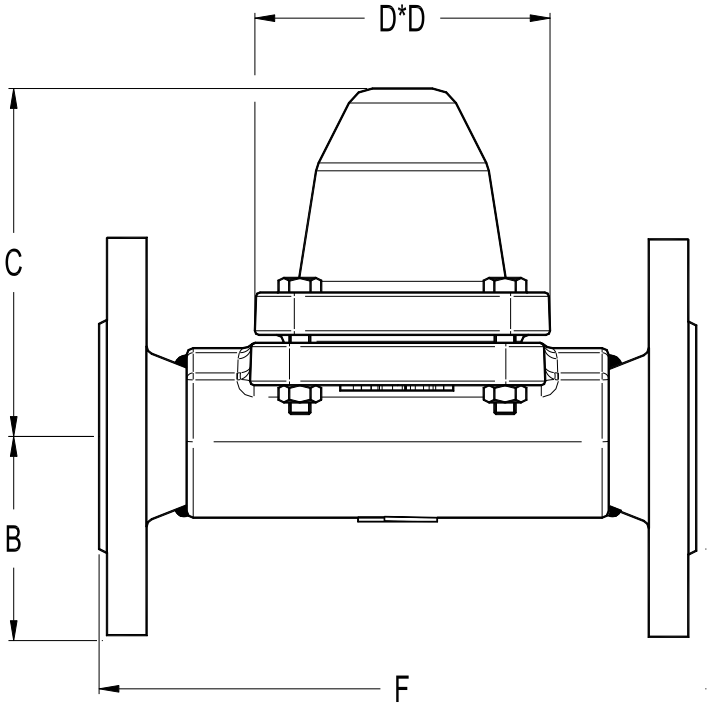
* Available spare parts




| DIMENSIONS ( mm) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BSP - NPT - SW - BW | | | | | EN 1092-1 PN40 | | | ANSI 150 | | | ANSI 300 | | |
| **SIZE DN** | **A** | **C** | **D** | **WGT. Kgs** | **B** | **F *** | **WGT. Kgs** | **B** | **F *** | **WGT. Kgs** | **B** | **F *** | **WGT. Kgs** |
| 11/2" - 40 | 160 | 132 | 115 | 7,2 | 75 | 230 | 11,9 | 64 | 230 | 10,6 | 78 | 230 | 12,9 |
| 2" - 50 | 230 | 132 | 115 | 9,3 | 83 | 230 | 14,9 | 76 | 230 | 14,5 | 83 | 230 | 16,1 |

* Note: different face to face dimensions on request.



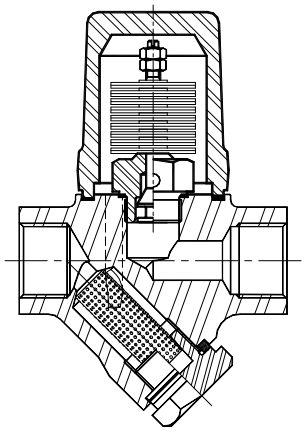
# BIMETALLIC STEAM TRAPS AND AIR ELIMINATORS
# BM 32
# (DN ½" – 1"; DN 15 – 25)

DESCRIPTION

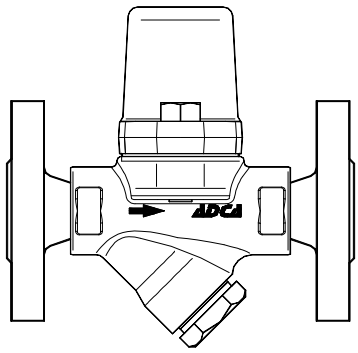
BM32 series bimetallic steam traps and air eliminators are simple and robust traps, recommended for steam process applications where condensate sensible heat can be recovered, steam tracing lines, drip points, storage tank coils, steam air venting, etc. The use of condensate sensible heat reduces the steam consumption.
Connections are female screwed or flanged.

MAIN FEATURES

Modulating discharge.
Discharges condensate below steam temperature.
Excellent air discharge.
Operates on superheated steam.
Unaffected by water hammer and vibrations.
Built-in strainer.



| | |
|---|---|
| OPTIONS: | Blowdown valve |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | BM32 |
| SIZES: | DN ½" to 1"; DN15 to DN25. |
| CONNECTIONS: | Female screwed ISO 7/1 Rp (BS21)<br>Flanged EN 1092-1 PN40 or ANSI |
| INSTALLATION: | Horizontal installation recommended, can be installed in any position.<br>See IMI installation and maintenance instructions. |



| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN40 / ANSI 300 * | FLANGED ANSI 150 ** | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | |
| 40 bar | 19,3 bar | 50 ºC |
| 35 bar | 15,8 bar | 150 ºC |
| 30,4 bar | 12,1 bar | 250 ºC |
| 27,6 bar | 10,2 bar | 300 ºC |

PMO - Max. operating pressure 32 bar
TMO - Max. operating temperature 300 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread, SW and BW.

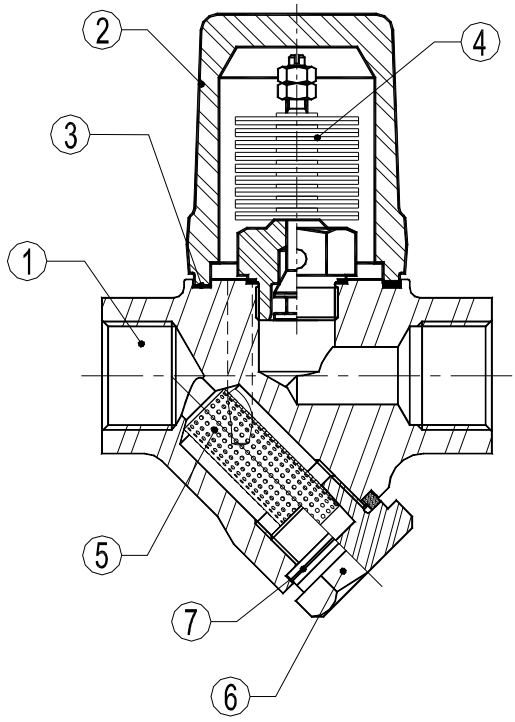
| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE DN | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | |
| | | 0,5 | 1 | 2 | 4 | 6 | 10 | 12 | 14 | 16 | 18 | 20 | 25 | 32 |
| BM32 | 15 - 25 A | 200 | 300 | 390 | 430 | 510 | 580 | 600 | 620 | 660 | 680 | 700 | 740 | 810 |
| BM32 | 15 - 25 B | 700 | 1000 | 1300 | 1530 | 1750 | 2050 | 2150 | 2250 | 2360 | 2480 | 2550 | 2750 | 2900 |

**A** = Condensate discharge at 10ºC below saturation temperature. **B** = Cold water capacity at about 20ºC.





Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.425 E 01.08

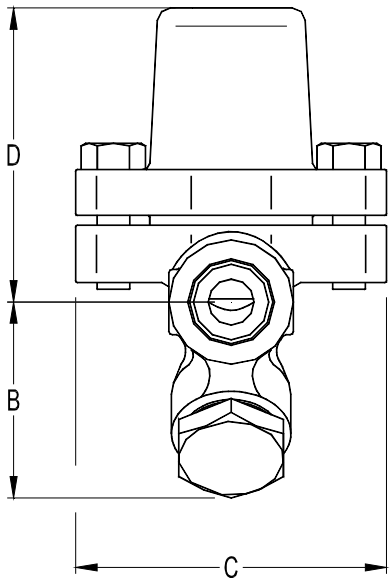


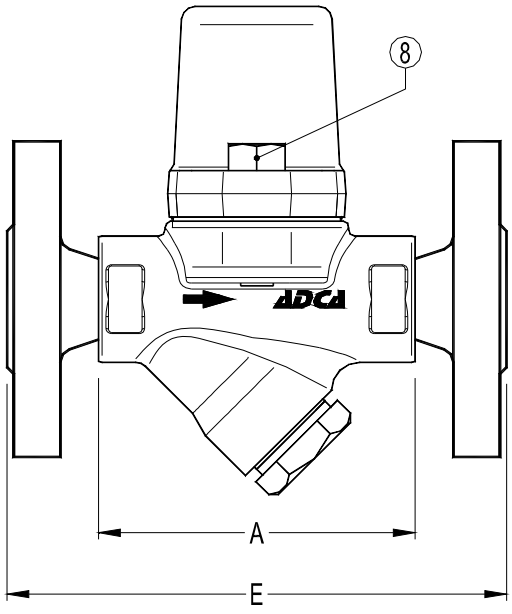

| MATERIALS | | |
|---|---|---|
| ***POS.Nr.*** | ***DESIGNATION*** | ***MATERIAL*** |
| 1 | Body | P250GH / 1.0460 |
| 2 | Cover | P250GH / 1.0460 |
| 3 | * Gasket | St.St./Graphite |
| 4 | * Valve assy. | Bimetal |
| 5 | * Strainer screen | AISI304 / 1.4301 |
| 6 | * Cover strainer | A 105 / 1.0432 |
| 7 | * Gasket | Stainless st./Graphite |
| 8 | Bolts | A2-70 |

* Available spare parts

| DIMENSIONS (mm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Screwed and SW* | | | | | | EN PN16/40 | | ANSI 150 | | ANSI 300 | |
| ***SIZE DN*** | ***A*** | ***B*** | ***C*** | ***D*** | ***WGT. Kgs*** | ***E*** | ***WGT. Kgs*** | ***E*** | ***WGT. Kgs*** | ***E*** | ***WGT. Kgs*** |
| 15-1/2" | 95 | 59 | 95 | 90 | 2,1 | 150 | 3,7 | 150 | 3,2 | 150 | 4 |
| 20-3/4" | 95 | 59 | 95 | 90 | 2,1 | 150 | 4,5 | 150 | 3,7 | 150 | 5,3 |
| 25-1" | 95 | 65 | 95 | 90 | 2,1 | 160 | 4,9 | 160 | 4,5 | 160 | 6,1 |

* BW (butt weld) on request.



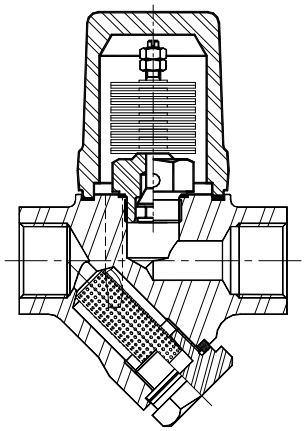
# BIMETALLIC STEAM TRAPS AND AIR ELIMINATORS
# BM 32
# (DN ½" – 1"; DN 15 – 25)

DESCRIPTION

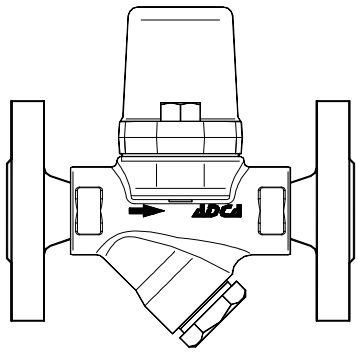
BM32 series bimetallic steam traps and air eliminators are simple and robust traps, recommended for steam process applications where condensate sensible heat can be recovered, steam tracing lines, drip points, storage tank coils, steam air venting, etc. The use of condensate sensible heat reduces the steam consumption.
Connections are female screwed or flanged.

MAIN FEATURES

Modulating discharge.
Discharges condensate below steam temperature.
Excellent air discharge.
Operates on superheated steam.
Unaffected by water hammer and vibrations.
Built-in strainer.



| | |
|---|---|
| OPTIONS: | Blowdown valve |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | BM32 |
| SIZES: | DN ½" to 1"; DN15 to DN25. |
| CONNECTIONS: | Female screwed ISO 7/1 Rp (BS21)<br>Flanged EN 1092-1 PN40 or ANSI |
| INSTALLATION: | Horizontal installation recommended, can be installed in any position.<br>See IMI installation and maintenance instructions. |



| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN40 / ANSI 300 * | FLANGED ANSI 150 ** | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | |
| 40 bar | 19,3 bar | 50 ºC |
| 35 bar | 15,8 bar | 150 ºC |
| 30,4 bar | 12,1 bar | 250 ºC |
| 27,6 bar | 10,2 bar | 300 ºC |

PMO - Max. operating pressure 32 bar
TMO - Max. operating temperature 300 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread, SW and BW.

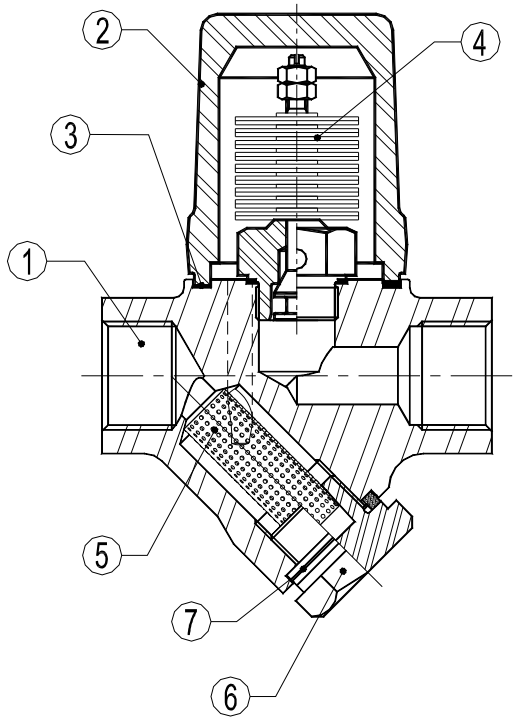
| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE DN | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | |
| | | 0,5 | 1 | 2 | 4 | 6 | 10 | 12 | 14 | 16 | 18 | 20 | 25 | 32 |
| BM32 | 15 - 25 A | 200 | 300 | 390 | 430 | 510 | 580 | 600 | 620 | 660 | 680 | 700 | 740 | 810 |
| BM32 | 15 - 25 B | 700 | 1000 | 1300 | 1530 | 1750 | 2050 | 2150 | 2250 | 2360 | 2480 | 2550 | 2750 | 2900 |

**A** = Condensate discharge at 10ºC below saturation temperature. **B** = Cold water capacity at about 20ºC.





Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.425 E 01.08

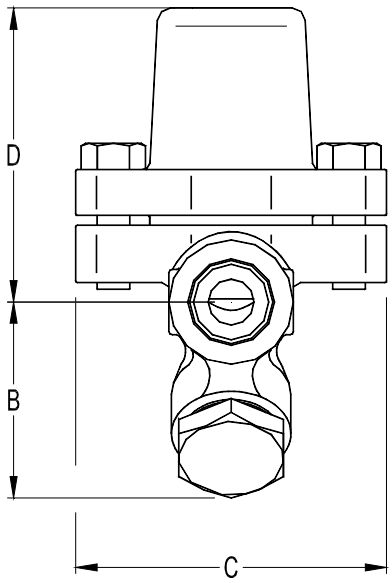


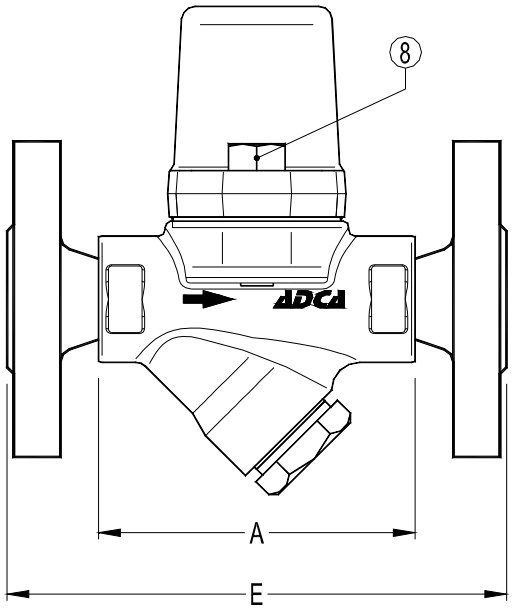

| MATERIALS | | |
|---|---|---|
| ***POS.Nr.*** | ***DESIGNATION*** | ***MATERIAL*** |
| 1 | Body | P250GH / 1.0460 |
| 2 | Cover | P250GH / 1.0460 |
| 3 | * Gasket | St.St./Graphite |
| 4 | * Valve assy. | Bimetal |
| 5 | * Strainer screen | AISI304 / 1.4301 |
| 6 | * Cover strainer | A 105 / 1.0432 |
| 7 | * Gasket | Stainless st./Graphite |
| 8 | Bolts | A2-70 |

* Available spare parts

| DIMENSIONS (mm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Screwed and SW* | | | | | | EN PN16/40 | | ANSI 150 | | ANSI 300 | |
| ***SIZE DN*** | ***A*** | ***B*** | ***C*** | ***D*** | ***WGT. Kgs*** | ***E*** | ***WGT. Kgs*** | ***E*** | ***WGT. Kgs*** | ***E*** | ***WGT. Kgs*** |
| 15-1/2" | 95 | 59 | 95 | 90 | 2,1 | 150 | 3,7 | 150 | 3,2 | 150 | 4 |
| 20-3/4" | 95 | 59 | 95 | 90 | 2,1 | 150 | 4,5 | 150 | 3,7 | 150 | 5,3 |
| 25-1" | 95 | 65 | 95 | 90 | 2,1 | 160 | 4,9 | 160 | 4,5 | 160 | 6,1 |

* BW (butt weld) on request.



# BIMETALLIC STEAM TRAPS AND AIR ELIMINATORS
# BM 32
# (DN40 – DN50)

DESCRIPTION

BM32 series bimetallic steam traps and air eliminators are simple and robust traps, recommended for steam process applications where condensate sensible heat can be recovered, steam tracing lines, drip points, storage tank coils, steam air venting, etc. The use of condensate sensible heat reduces the steam consumption.
Connections are female screwed or flanged.

MAIN FEATURES

Modulating discharge.
Discharges condensate below steam temperature.
Excellent air discharge.
Operates on superheated steam.
Unaffected by water-hammer and vibrations.
Built-in strainer.

| | |
|---|---|
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | BM32 |
| SIZES: | DN11/2" – DN2"; DN 40 - DN 50 |
| CONNECTIONS: | Female screwed BSP or NPT.<br>Flanged EN 1092-1 PN40 or ANSI<br>SW - Socket weld to ANSI B 16.11<br>BW - Butt weld to ANSI B16.25 |
| INSTALLATION: | Horizontal installation<br>See IMI installation and maintenance instructions. |

| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN40 / ANSI 300 * | FLANGED ANSI 150 ** | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | |
| 40 bar | 19,3 bar | 50 ºC |
| 35 bar | 15,8 bar | 150 ºC |
| 30,4 bar | 12,1 bar | 250 ºC |
| 27,6 bar | 10,2 bar | 300 ºC |

PMO - Max. operating pressure 32 bar
TMO - Max. operating temperature 300 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread, SW and BW.

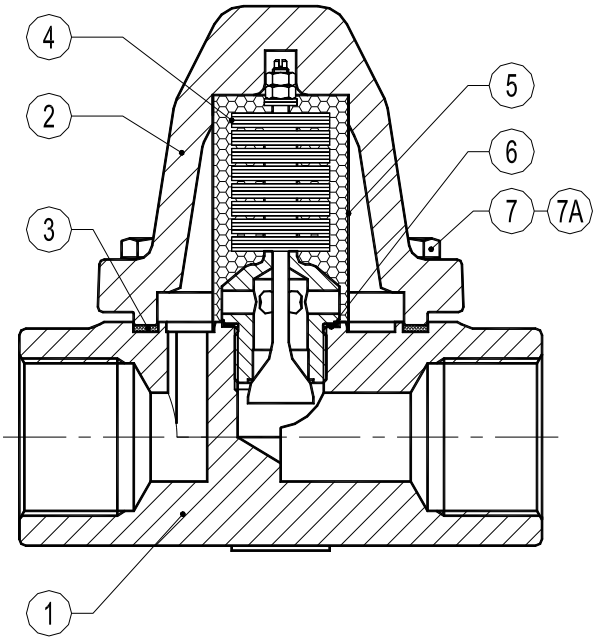
| CE MARKING (PED - European Directive 97/23/EC) | | |
|---|---|---|
| ANSI 150# | PN 40 ANSI 300# | Category |
| / | DN40 - DN50 | 1 (CE Marked) |
| DN11/2" - 2" | / | SEP |

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | |
| | | 2 | 4 | 6 | 8 | 10 | 12 | 16 | 18 | 20 | 24 | 28 | 32 |
| BM 32 | 40 - 50 A | 450 | 490 | 550 | 640 | 700 | 730 | 850 | 920 | 980 | 1050 | 1100 | 1150 |
| BM 32 | 40 - 50 B | 1400 | 1500 | 1700 | 1950 | 2200 | 2200 | 2600 | 2800 | 2950 | 3150 | 3300 | 3500 |

**A** = Condensate discharge at 10ºC below saturation temperature. **B** = Cold water capacity at about 20ºC.

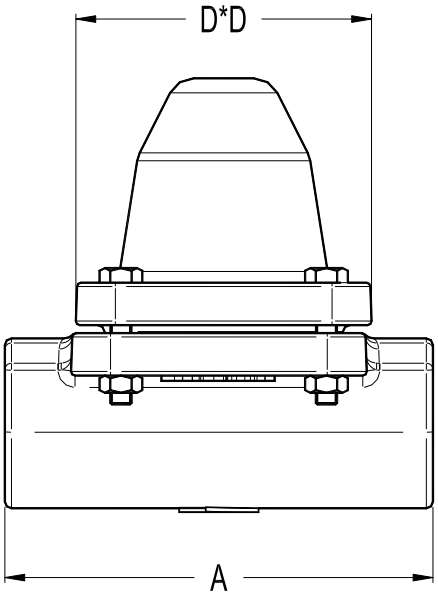
| MATERIALS | | |
|---|---|---|
| **POS. Nr.** | **DESIGNATION** | **MATERIAL** |
| 1 | Body | ASTM A105 / 1.0432 (Equiv.P250GH) |
| 2 | Cover | ASTM A105 / 1.0432 (Equiv.P250GH) |
| 3 | * Gasket | St.St./Graphite |
| 4 | * Valve assembly | Hardened St.Steel / Bimetal |
| 5 | * Strainer screen | AISI304 / 1.4301 |
| 6 | * Seat gasket | Copper |
| 7 | Studs | ASTM A193 Gr.B7 |
| 7A | Nuts | ASTM A194 Gr.2H |

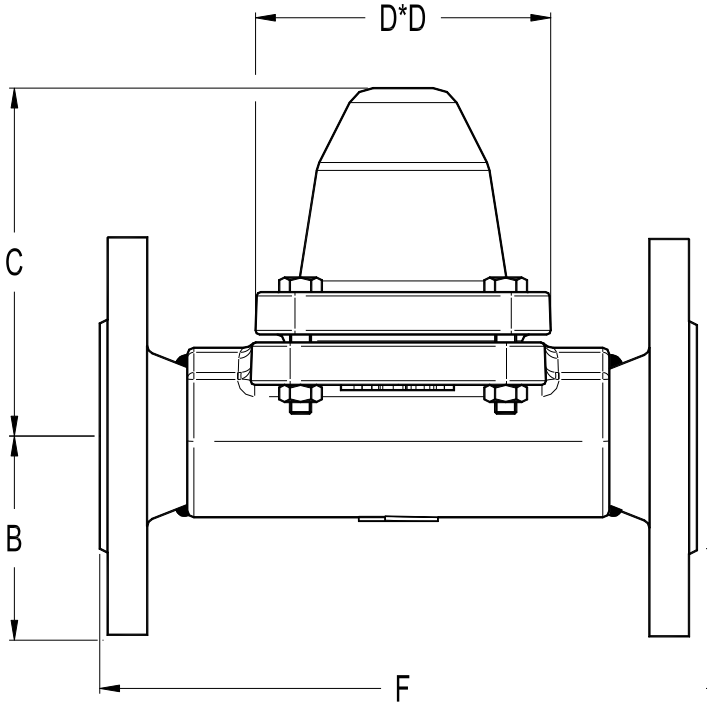
* Available spare parts




| DIMENSIONS ( mm) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BSP - NPT - SW - BW | | | | | EN 1092-1 PN40 | | | ANSI 150 | | | ANSI 300 | | |
| **SIZE DN** | **A** | **C** | **D** | **WGT. Kgs** | **B** | **F *** | **WGT. Kgs** | **B** | **F *** | **WGT. Kgs** | **B** | **F *** | **WGT. Kgs** |
| 11/2" - 40 | 160 | 132 | 115 | 7,2 | 75 | 230 | 11,9 | 64 | 230 | 10,6 | 78 | 230 | 12,9 |
| 2" - 50 | 230 | 132 | 115 | 9,3 | 83 | 230 | 14,9 | 76 | 230 | 14,5 | 83 | 230 | 16,1 |

* Note: different face to face dimensions on request.



# BIMETALLIC STEAM TRAPS AND AIR ELIMINATORS
# BM 35
# (DN1/2" – DN 1"; DN15 – DN25)

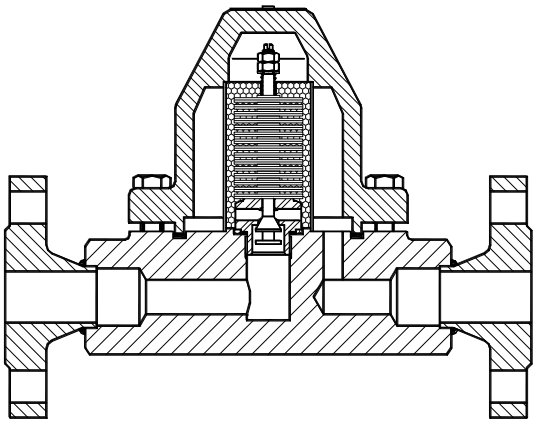
DESCRIPTION

BM35 series bimetallic steam traps and air eliminators are simple and robust traps, recommended for steam where condensate sensible heat can be recovered, steam tracing lines, drip points, storage tank coils, steam air venting, etc. The use of condensate sensible heat reduces the steam consumption.
Connections are female screwed, socket weld, butt weld or flanged.

MAIN FEATURES

Modulating discharge.
Discharges condensate below steam temperature.
Excellent air discharge.
Operates on superheated steam.
Unaffected by water-hammer and vibrations.
Built-in strainer.

| | |
|---|---|
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | BM35 |
| SIZES: | DN ½" to 1"; DN15 to DN25. |
| CONNECTIONS: | Female screwed BSP or NPT<br>Flanged EN 1092-1 or ANSI<br>SW - Socket weld to ANSI B 16.11<br>BW - Butt weld to ANSI B16.25 |
| INSTALLATION: | Horizontal installation recommended, can be installed in any position.<br>See IMI installation and maintenance instructions. |



| BODY LIMITING CONDITIONS | | | |
|---|---|---|---|
| FLANGED PN40 * | FLANGED ANSI 300 ** | FLANGED PN63/100/ANSI 600* | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | ALLOW. PRES. | |
| 40 bar | 50 bar | 63 bar | 50 °C |
| 30,4 bar | 41,8 bar | 48 bar | 250 °C |
| 27,6 bar | 38,9 bar | 43,5 bar | 300 °C |
| 18,5 bar | 28,7 bar | 29,1 bar | 425 °C |

* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004

Operating pressure : 2 to 35 bar

Body limiting conditions PN63 or below, depending on the type of connection adopted. Rating PN63 for thread, SW and BW.

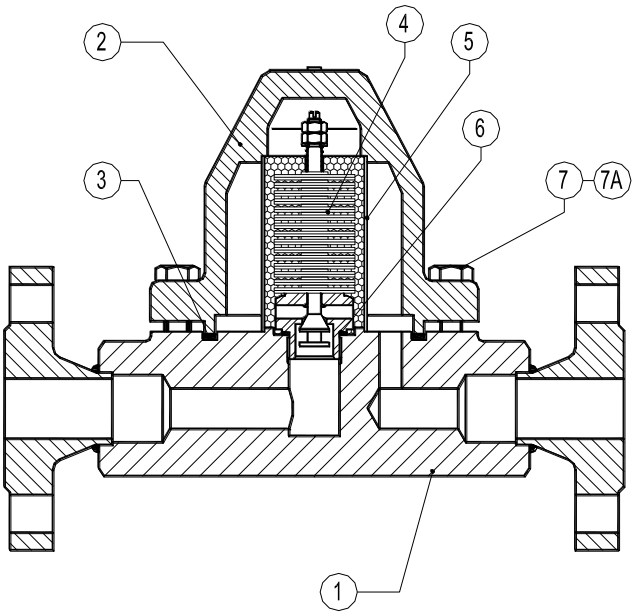
| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE DN | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | |
| | | 2 | 4 | 6 | 8 | 10 | 12 | 16 | 18 | 20 | 24 | 26 | 32 | 35 |
| BM 35 | 15 - 25 A | 550 | 780 | 880 | 900 | 920 | 935 | 950 | 980 | 1000 | 1030 | 1080 | 1130 | 1160 |
| BM 35 | 15 - 25 B | 1500 | 1700 | 2000 | 2200 | 2500 | 2700 | 2990 | 3150 | 3400 | 3750 | 3880 | 4030 | 4200 |

**A** = Condensate discharge at 10ºC below saturation temperature. **B** = Cold water capacity at about 20ºC.





Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.447 E 04.08

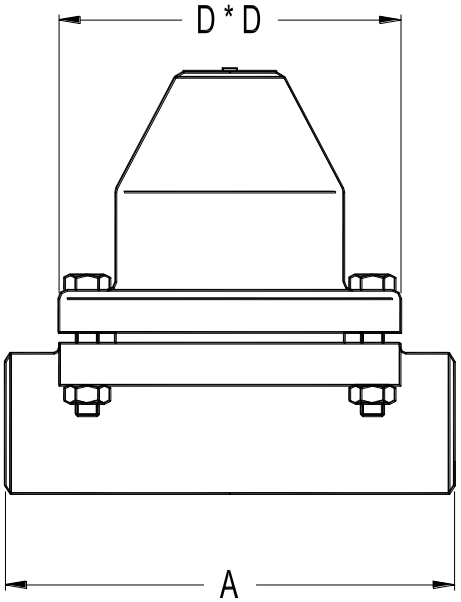


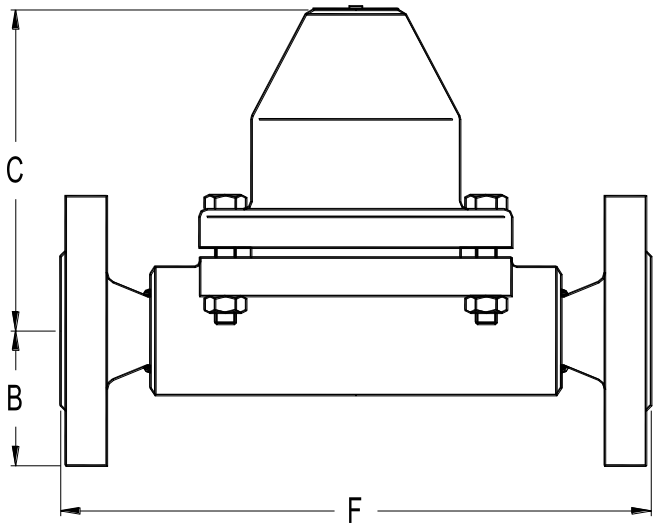

| MATERIALS | | |
|---|---|---|
| ***POS. Nr.*** | ***DESIGNATION*** | ***MATERIAL*** |
| 1 | Body | ASTM A105 / 1.0432 (Equiv.P250GH) |
| 2 | Cover | ASTM A105 / 1.0432 (Equiv.P250GH) |
| 3 | * Gasket | St.St./Graphite |
| 4 | * Valve assembly | Hardened St.Steel |
| 5 | * Strainer screen | AISI304 / 1.4301 |
| 6 | * Seat gasket | AISI304 / 1.4301 |
| 7 | Studs | ASTM A193 Gr.B7 |
| 7A | Nuts | ASTM A194 Gr.2H |

* Available spare parts

| DIMENSIONS ( mm) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BSP - NPT - SW - BW | | | | | EN 1092-1PN40 | | | ANSI 300 | | | EN 1092-1 PN63 / PN100 | | | ANSI 600 | | |
| ***SIZE DN*** | ***A*** | ***C*** | ***D*** | ***WGT. Kgs*** | ***B*** | ***F **** | ***WGT. Kgs*** | ***B*** | ***F **** | ***WGT. Kgs*** | ***B*** | ***F **** | ***WGT. Kgs*** | ***B*** | ***F **** | ***WGT. Kgs*** |
| 15-1/2" | 160 | 120 | 115 | 6,3 | 47,5 | 230 | 7,9 | 47,5 | 230 | 8,2 | 52,5 | 230 | 8,8 | 47,5 | 230 | 8,2 |
| 20-3/4" | 160 | 120 | 115 | 6,3 | 52,5 | 230 | 8,5 | 59 | 230 | 9,4 | 65 | 230 | 11,1 | 59 | 230 | 9,4 |
| 25-1" | 160 | 120 | 115 | 6,3 | 57,5 | 230 | 9,1 | 62 | 230 | 10,2 | 70 | 230 | 11,8 | 62 | 230 | 10,2 |

* Note: different face to face dimensions on request.



# BIMETALLIC STEAM TRAPS AND AIR ELIMINATORS
# BM 45
# (DN1/2" – DN 1"; DN15 – DN25)

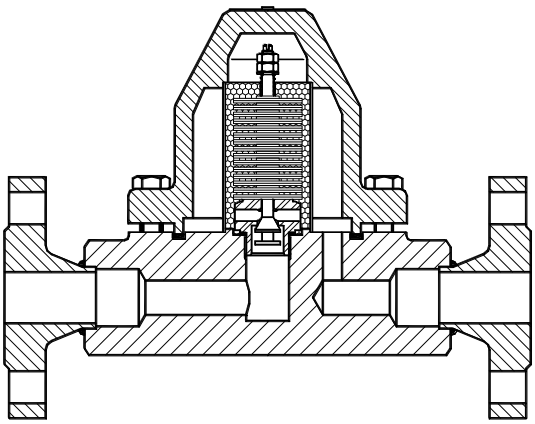
DESCRIPTION

BM45 series bimetallic steam traps and air eliminators are simple and robust traps, recommended for steam where condensate sensible heat can be recovered, steam tracing lines, drip points, storage tank coils, steam air venting, etc. The use of condensate sensible heat reduces the steam consumption.
Connections are female screwed, socket weld, butt weld or flanged.

MAIN FEATURES

Modulating discharge.
Discharges condensate below steam temperature.
Excellent air discharge.
Operates on superheated steam.
Unaffected by water-hammer and vibrations.
Built-in strainer.

| | |
|---|---|
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | BM45 |
| SIZES: | DN ½" to 1" ; DN15 to DN25. |
| CONNECTIONS: | Female screwed BSP or NPT<br>Flanged EN 1092-1 or ANSI<br>SW - Socket weld to ANSI B 16.11<br>BW - Butt weld to ANSI B16.25 |
| INSTALLATION: | Horizontal installation recommended, can be installed in any position.<br>See IMI installation and maintenance instructions. |



| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED ANSI 300 ** | FLANGED PN63/100/ANSI 600* | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | |
| 50 bar | 63 bar | 50 °C |
| 41,8 bar | 48 bar | 250 °C |
| 38,9 bar | 43,5 bar | 300 °C |
| 28,7 bar | 29,1 bar | 425 °C |

* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004

Operating pressure : 15 to 45 bar

Body limiting conditions PN63 or below, depending on the type of connection adopted. Rating PN63 for thread, SW and BW.

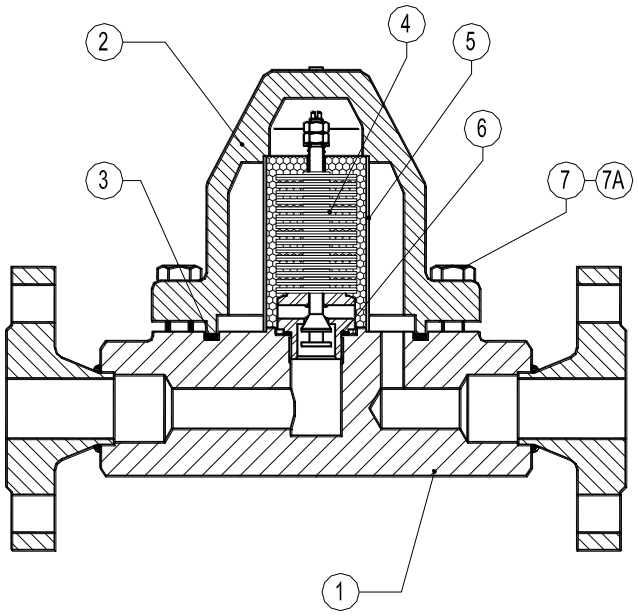
| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE DN | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | |
| | | 15 | 17 | 20 | 22 | 25 | 28 | 30 | 40 | 42 | 45 |
| BM 45 | 15 - 25 A | 400 | 430 | 460 | 480 | 500 | 530 | 550 | 580 | 585 | 590 |
| BM 45 | 15 - 25 B | 2400 | 2600 | 2760 | 2800 | 3000 | 3100 | 3200 | 4000 | 4100 | 4200 |

**A = Condensate discharge at 10°C below saturation temperature. B = Cold water capacity at about 20°C.**





Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.448 E 04.08

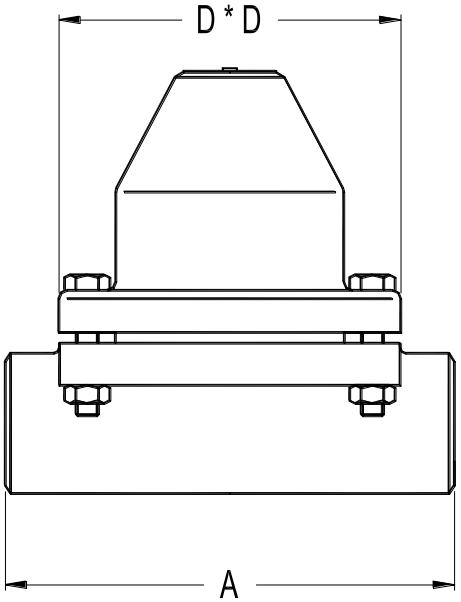


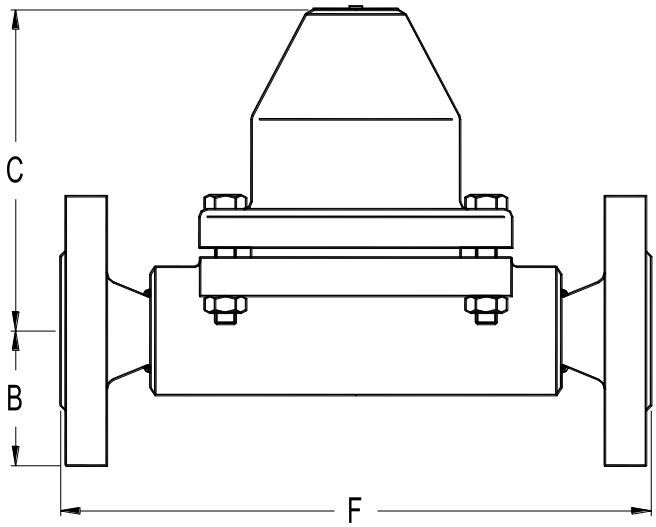

| MATERIALS | | |
|---|---|---|
| ***POS. Nr.*** | ***DESIGNATION*** | ***MATERIAL*** |
| 1 | Body | ASTM A105 / 1.0432 (Equiv.P250GH) |
| 2 | Cover | ASTM A105 / 1.0432) (Equiv.P250GH) |
| 3 | * Gasket | St.St./Graphite |
| 4 | * Valve assembly | Hardened St.Steel |
| 5 | * Strainer screen | AISI304 / 1.4301 |
| 6 | * Seat gasket | AISI304 / 1.4301 |
| 7 | Studs | ASTM A193 Gr.B7 |
| 7A | Nuts | ASTM A194 Gr.2H |

* Available spare parts

| DIMENSIONS ( mm) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BSP - NPT - SW - BW | | | | | EN 1092-1 PN63 / PN100 | | | ANSI 300 | | | ANSI 600 | | |
| ***SIZE DN*** | ***A*** | ***C*** | ***D*** | ***WGT. Kgs*** | ***B*** | ***F **** | ***WGT. Kgs*** | ***B*** | ***F **** | ***WGT. Kgs*** | ***B*** | ***F **** | ***WGT. Kgs*** |
| 15-1/2" | 160 | 120 | 115 | 6,3 | 52,5 | 230 | 8,8 | 47,5 | 230 | 9,1 | 47,5 | 230 | 8,2 |
| 20-3/4" | 160 | 120 | 115 | 6,3 | 65 | 230 | 11,1 | 58,5 | 230 | 11,9 | 59 | 230 | 9,4 |
| 25-1" | 160 | 120 | 115 | 6,3 | 70 | 230 | 11,8 | 62 | 230 | 13 | 62 | 230 | 10,2 |

* Note: different face to face dimensions on request.



# BIMETALLIC STEAM TRAPS AND AIR ELIMINATORS
# BM 80
# (DN1/2" – DN 1"; DN15 – DN25)

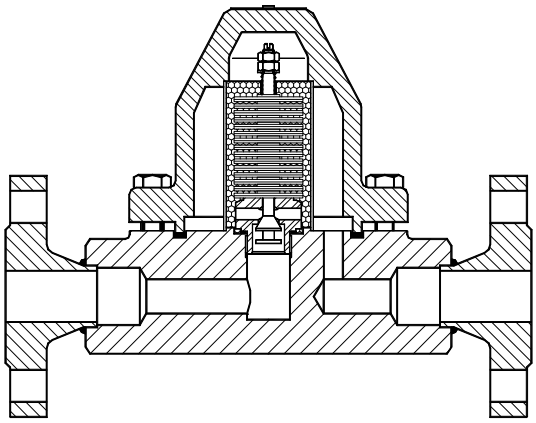
DESCRIPTION

BM80 series bimetallic steam traps and air eliminators are simple and robust traps, recommended for steam where condensate sensible heat can be recovered, steam tracing lines, drip points, storage tank coils, steam air venting, etc. The use of condensate sensible heat reduces the steam consumption.
Connections are female screwed, socket weld, butt weld or flanged.

MAIN FEATURES

Modulating discharge.
Discharges condensate below steam temperature.
Excellent air discharge.
Operates on superheated steam.
Unaffected by water-hammer and vibrations.
Built-in strainer.

| | |
|---|---|
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | BM80 |
| SIZES: | DN ½" to 1" ; DN15 to DN25. |
| CONNECTIONS: | Female screwed BSP or NPT<br>Flanged EN 1092-1 or ANSI<br>SW - Socket weld to ANSI B 16.11<br>BW - Butt weld to ANSI B16.25 |
| INSTALLATION: | Horizontal installation recommended, can be installed in any position.<br>See IMI installation and maintenance instructions. |



| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN100 * | FLANGED ANSI 600 ** | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | |
| 100 bar | 100 bar | 50 ºC |
| 100 bar | 92,7 bar | 250 ºC |
| 98 bar | 80,4 bar | 350 ºC |
| 88 bar | 67,7 bar | 450 ºC |

* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004

Operating pressure : 25 to 80 bar

Body limiting conditions PN100 or below, depending on the type of connection adopted. Rating PN100 for thread, SW and BW.

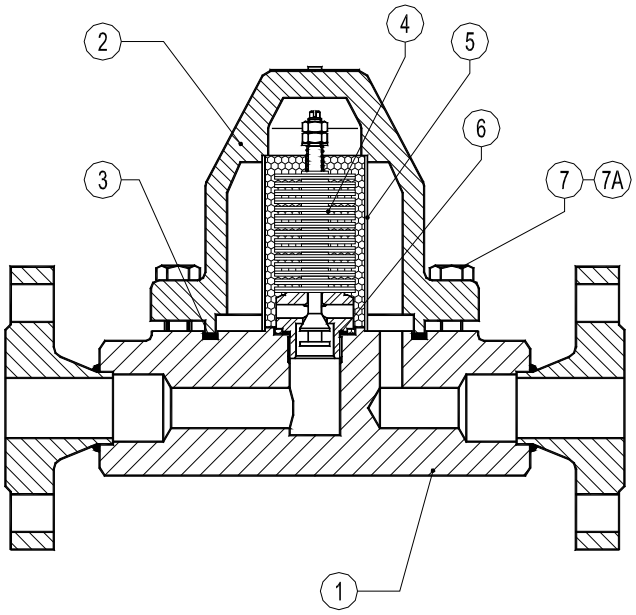
| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE DN | DIFFERENTIAL PRESSURE (bar) | | | | | | | | |
| | | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 70 | 80 |
| BM 80 | 15 - 25 A | 500 | 550 | 570 | 580 | 590 | 600 | 610 | 620 | 630 | 650 |
| BM 80 | 15 - 25 B | 3000 | 3200 | 3600 | 4000 | 4200 | 4700 | 5000 | 5400 | 6000 | 6200 |

**A = Condensate discharge at 10ºC below saturation temperature. B = Cold water capacity at about 20ºC.**





Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.450 E 03.08

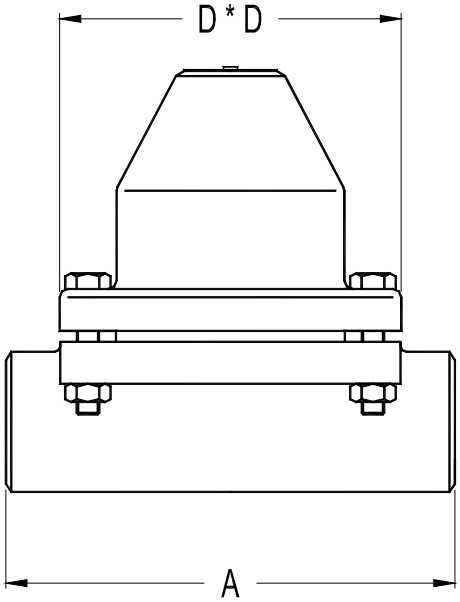


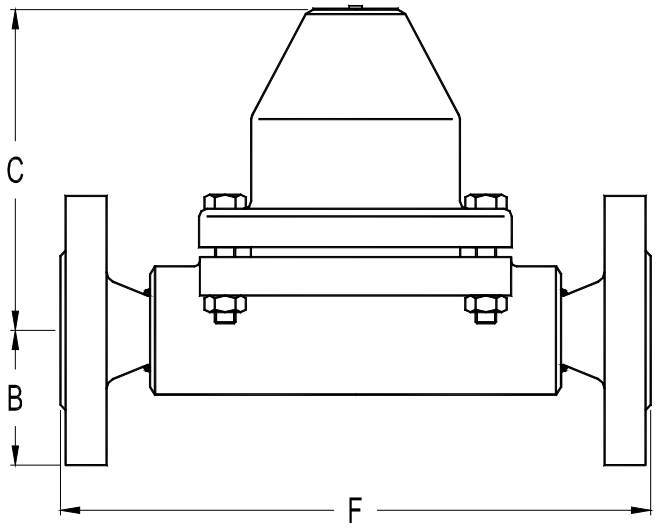

| MATERIALS | | |
|---|---|---|
| ***POS. Nr.*** | ***DESIGNATION*** | ***MATERIAL*** |
| 1 | Body | ASTM A182F22 / 1.7380 (Equiv.10CrMo910) |
| 2 | Cover | ASTM A182F22 / 1.7380 (Equiv.10CrMo910) |
| 3 | * Gasket | St.St./Graphite |
| 4 | * Valve assembly | Hardened St.Steel |
| 5 | * Strainer screen | AISI304 / 1.4301 |
| 6 | * Seat gasket | AISI304 / 1.4301 |
| 7 | Studs | ASTM A193 Gr.B7 |
| 7A | Nuts | ASTM A194 Gr.2H |

* Available spare parts

| DIMENSIONS ( mm) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| BSP - NPT - SW - BW | | | | | EN1092-1 PN100 | | | ANSI 600 | | |
| ***SIZE DN*** | ***A*** | ***C*** | ***D*** | ***WGT. Kgs*** | ***B*** | ***F **** | ***WGT. Kgs*** | ***B*** | ***F **** | ***WGT. Kgs*** |
| 15-1/2" | 160 | 120 | 115 | 6,3 | 52,5 | 230 | 8,8 | 47,5 | 230 | 8,2 |
| 20-3/4" | 160 | 120 | 115 | 6,3 | 65 | 230 | 11,1 | 59 | 230 | 9,4 |
| 25-1" | 160 | 120 | 115 | 6,3 | 70 | 230 | 11,8 | 62 | 230 | 10,2 |

* Note: different face to face dimensions on request.



# BIMETALLIC STEAM TRAPS AND AIR ELIMINATORS
# BM 140
# (DN1/2" – DN 1"; DN15 – DN25)

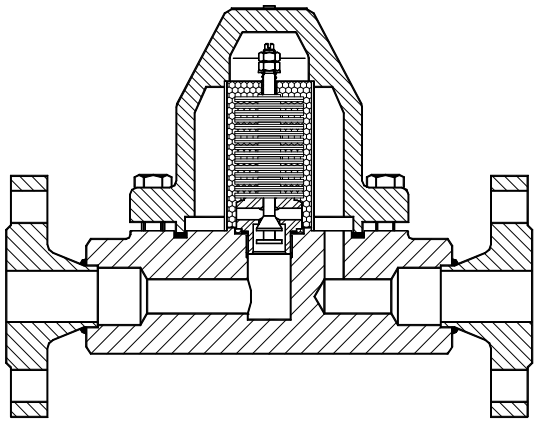
DESCRIPTION

BM140 series bimetallic steam traps and air eliminators are simple and robust traps, recommended for steam where condensate sensible heat can be recovered, steam tracing lines, drip points, storage tank coils, steam air venting, etc. The use of condensate sensible heat reduces the steam consumption.
Connections are female screwed, socket weld, butt weld or flanged.

MAIN FEATURES

Modulating discharge.
Discharges condensate below steam temperature.
Excellent air discharge.
Operates on superheated steam.
Unaffected by water-hammer and vibrations.
Built-in strainer.

| | |
|---|---|
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | BM140 |
| SIZES: | DN ½" to 1"; DN15 to DN25. |
| CONNECTIONS: | Female screwed BSP or NPT<br>Flanged EN 1092-1 or ANSI<br>SW - Socket weld to ANSI B 16.11<br>BW - Butt weld to ANSI B16.25 |
| INSTALLATION: | Horizontal installation recommended, can be installed in any position.<br>See IMI installation and maintenance instructions. |



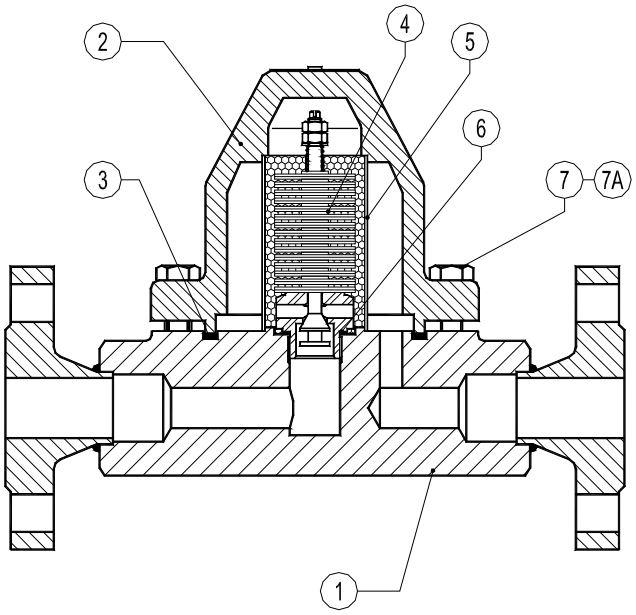
| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN160 * | FLANGED ANSI 900 ** | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | |
| 160 bar | 128,6 bar | 300 ºC |
| 156 bar | 120,7 bar | 350 ºC |
| 141 bar | 101,4 bar | 450 ºC |
| 52 bar | 46 bar | 550 ºC |

* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Operating pressure : 25 to 140 bar

Body limiting conditions PN160 or below, depending on the type of connection adopted. Rating PN160 for thread, SW and BW.

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE DN | DIFFERENTIAL PRESSURE (bar) | | | | | | | | |
| | | 25 | 30 | 35 | 40 | 45 | 50 | 60 | 80 | 120 | 140 |
| BM 140 | 15 - 25 A | 500 | 550 | 570 | 580 | 590 | 600 | 620 | 630 | 640 | 650 |
| BM 140 | 15 - 25 B | 3000 | 3200 | 3600 | 4000 | 4200 | 4700 | 5400 | 6200 | 7800 | 8500 |

**A = Condensate discharge at 10ºC below saturation temperature. B = Cold water capacity at about 20ºC.**

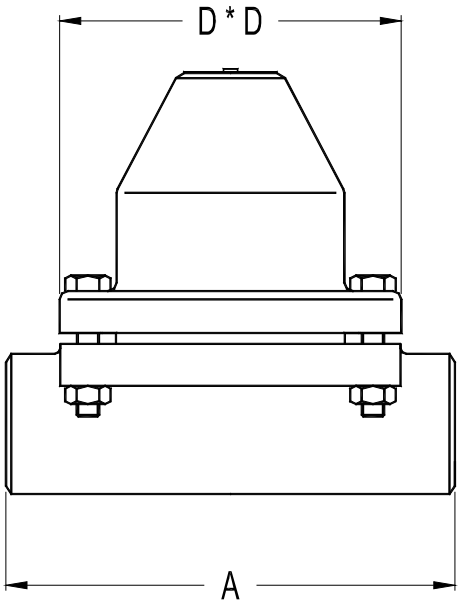


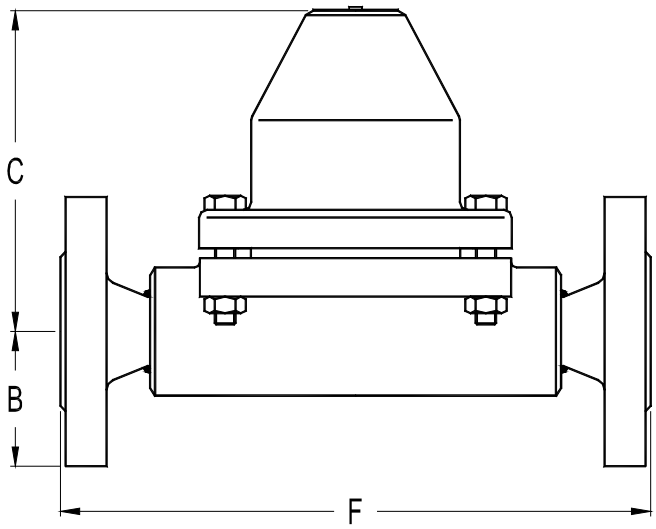

| MATERIALS | | |
|---|---|---|
| ***POS. Nr.*** | ***DESIGNATION*** | ***MATERIAL*** |
| 1 | Body | ASTM A182F22 / 1.7380 (Equiv.10CrMo910) |
| 2 | Cover | ASTM A182F22 / 1.7380 (Equiv.10CrMo910) |
| 3 | * Gasket | St.St./Graphite |
| 4 | * Valve assembly | Hardened St.Steel |
| 5 | * Strainer screen | AISI304 / 1.4301 |
| 6 | * Seat gasket | AISI304 / 1.4301 |
| 7 | Studs | ASTM A193 B16 |
| 7A | Nuts | ASTM A194 Gr.4 |

* Available spare parts

| DIMENSIONS ( mm) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| BSP - NPT - SW - BW | | | | | EN1092-1 PN160 | | | ANSI 900 | | |
| ***SIZE DN*** | ***A*** | ***C*** | ***D*** | ***WGT. Kgs*** | ***B*** | ***F **** | ***WGT. Kgs*** | ***B*** | ***F **** | ***WGT. Kgs*** |
| 15-1/2" | 160 | 120 | 115 | 6,3 | 52,5 | 230 | 8,8 | 60 | 230 | 10,2 |
| 20-3/4" | 160 | 120 | 115 | 6,3 | 65 | 230 | 11,1 | 65 | 230 | 11,6 |
| 25-1" | 160 | 120 | 115 | 6,3 | 70 | 230 | 11,8 | 75 | 230 | 14 |

* Note: different face to face dimensions on request.



# BIMETALLIC STEAM TRAPS AND AIR ELIMINATORS
## BM - HC (High capacity)
## (DN11/2" – DN 5"; DN40 – DN125)

DESCRIPTION

BM-HC series bimetallic steam traps and air eliminators are simple and robust traps, recommended for large process applications.
They can be supplied with several bimetallic regulators achieving the requested flow rate.
Connections are flanged as standard (others on request).


MAIN FEATURES

Modulating discharge.
Discharges condensate below steam temperature.
Excellent air discharge.
Operates on superheated steam.
Unaffected by water-hammer and vibrations.

| | |
|---|---|
| OPTIONS: | Complete stainless steel construction<br>Different capacities and designs |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | BM24HC...; BM32HC...; BM35HC…etc. |
| SIZES: | DN11/2" to 5" ; DN40 to DN125 |
| CONNECTIONS: | Flanged EN 1092-1 or ANSI |
| INSTALLATION : | Vertical installation |
| SIZING: | Consult factory including all the operating details . |

| | |
|---|---|
| PS – Operating pressure | Up to 63 bar |
| TS – Operating temperature | Up to 300 ºC |

Higher pressures and temperatures on request.

| CE MARKING - GROUP 2 GASES CATEGORIES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| RATING | MODEL * | CAT. | RATING | MODEL * | CAT. | RATING | MODEL * | CAT. |
| PN16 | BM…HC04 | SEP | PN40 | BM…HC04 | 1 | PN63 | BM…HC04 | 1 |
| | BM…HC05 | SEP | | BM…HC05 | 1 | | BM…HC05 | 1 |
| | BM…HC06 | SEP | | BM…HC06 | 1 | | BM…HC06 | 1 |
| | BM…HC08 | 1 | | BM…HC08 | 2 | | BM…HC08 | 2 |
| | BM…HC10 | 2 | | BM…HC10 | 2 | | / | / |

* All sizes (DN 's) belonging to the same model, have the same category.

| LIMITING CONDITIONS ** | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Rating | Press. bar | Temp. ºC | Rating | Press. bar | Temp. ºC | Rating | Press. bar | Temp. ºC | Rating | Press. bar | Temp. ºC |
| PN16 | 16 | 50 | ANSI Cl.150 lbs | 16 | 50 | PN40 ANSI CL.300lbs | 40 | 50 | PN63 ANSI CL.600lbs | 63 | 50 |
| | 14 | 100 | | 14 | 100 | | 37 | 100 | | 58 | 100 |
| | 13 * | 195 | | 13 * | 195 | | 31 * | 239 | | 47* | 261 |
| | 12 | 250 | | - | - | | 27 | 300 | | 43 | 300 |

*PMO-Max.operating pressure for saturated steam. Minimum operating temp.: -10ºC. Design code: AD-Merkblatt

** Rating according to EN1092:2007.

| MODELS AND DIMENSIONS (mm) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | * Max. Nr.Reg. | DN PN16 | DN PN40 | DN PN63 | A PN16 | A PN40 | A PN63 | B PN16 | B PN40 | B PN63 | WEIGHT PN16** | WEIGHT PN40 ** | WEIGHT PN63 ** |
| BM (a)HC04-(b) | 3 | 40 - 50 | 40 - 50 | 40 - 50 | 241 | 259 | 301 | 220 | 235 | 250 | 19,2 | 25 | 38,5 |
| BM(a)HC05-(b) | 6 | 50 - 65 | 50 - 65 | 50 - 65 | 242 | 281 | 325 | 250 | 270 | 295 | 24,3 | 35 | 51,3 |
| BM (a)HC06-(b) | 8 | 65 - 80 | 65 - 80 | 65 - 80 | 262 | 317 | 358 | 285 | 300 | 345 | 32,9 | 46,4 | 72,4 |
| BM(a)HC08-(b) | 14 | 65 - 80 | 65 - 80 | 65 - 80 | 311 | 367 | 413 | 340 | 375 | 415 | 49,6 | 82 | 111,7 |
| BM (a)HC10-(b) | 20 | 125 | 65 - 80 | / | 386 | 430 | / | 405 | 450 | / | 81,7 | 126,5 | / |

(a) - Insert the regulator type , selected from a single steam trap regulator DN40-50 (BM24 or BM32) or DN15-25 (BM35,45,80 and 140)

(b) - Insert the number of regulators according to the desired flow rate and maximum permissible number mentioned in the next column

* Maximum number of regulators per model

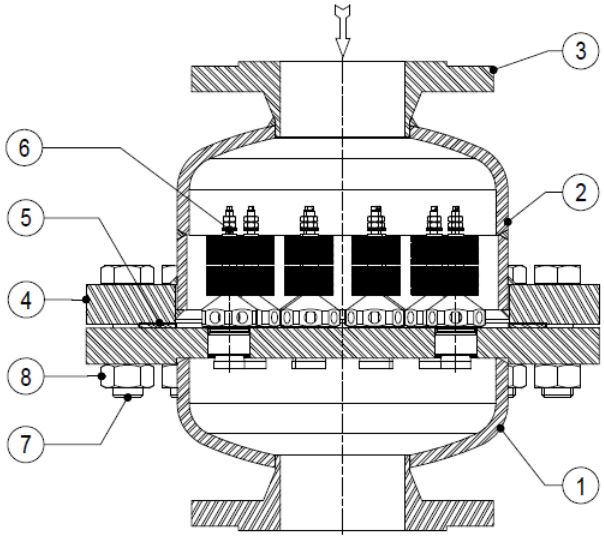
** Consult factory for certified dimensions and weights (weights in kgs)

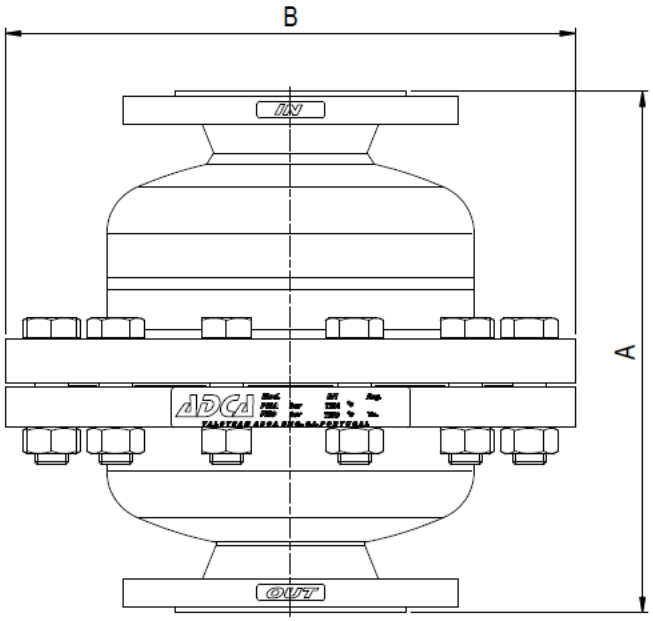
How to order:

BM32HC06-6 DN80 PN 40 (High capacity bimetallic steam trap with six BM32 DN40/50 regulators).

Remarks:

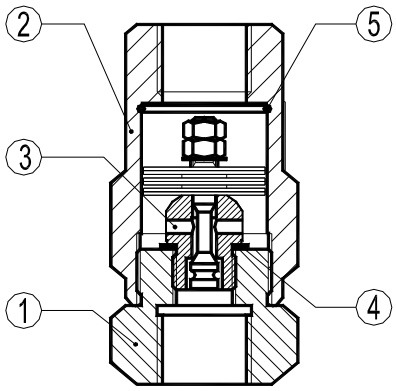
If the selected regulator is intended to work above the operating conditions mentioned in this catalogue, please consult for a tailor made option.



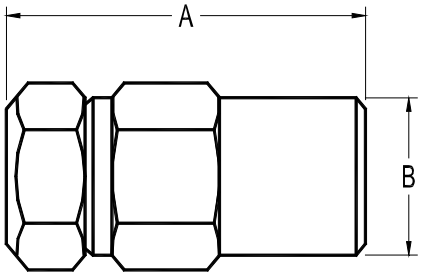

| MATERIALS | | |
|---|---|---|
| POS. Nr. | DESIGNATION | MATERIAL |
| 1 | Body cap | EN10028-2 / P265GH / 1.0425 |
| 2 | Tube cover | EN10216-2 / P235GH / 1.0325 |
| 3 | EN flanges | EN10222-2 / P250GH / 1.0460 |
| 3 | ANSI flanges | ASTM A105 / 1.0432 |
| 4 | Body flanges | EN10222-2 / P250GH / 1.0460 |
| 5 | * Gasket | St.steel / Graphite |
| 6 | * Regulator | Bimetall |
| 7 | Studs | Steel 8.8 |
| 8 | Nuts | Steel 8.8 |

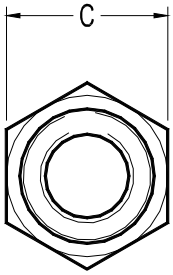
* Available spare parts




| MATERIALS | | |
|---|---|---|
| ***POS.Nr.*** | ***DESIGNATION*** | ***MATERIAL*** |
| 1 | Body | AISI 304 / 1.4301 |
| 2 | Cover | AISI 304 / 1.4301 |
| 3 | * Valve assy. | Special stainless st. |
| 4 | * Gasket | AISI 304 / 1.4301 |
| 5 | * Strainer screen | AISI 304 / 1.4301) |

* Available spare parts




| DIMENSIONS (mm)-Screwed | | | | |
|---|---|---|---|---|
| ***SIZE DN*** | ***A*** | ***B*** | ***C*** | ***WGT. Kgs*** |
| 1/2" | 80 | 35 | 36 | 0,42 |

# INVERTED BUCKET STEAM TRAPS
# IB 12

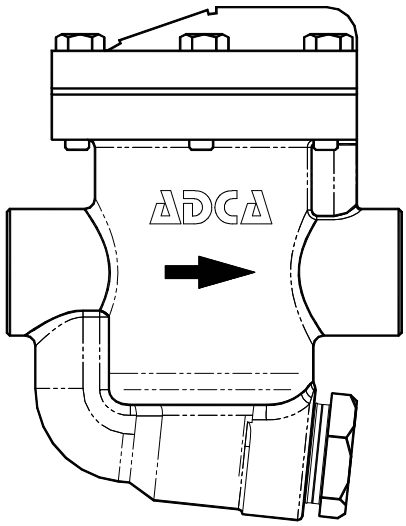
## DESCRIPTION

IB12 series inverted bucket steam traps are recommended for all services where the most important requirements are overall operating efficiency and long, trouble-free service life.
They operate intermittently, either wide open or tightly closed and are therefore best suited for service at medium and high steam pressures.
Connections are female screwed for horizontal installation.

## MAIN FEATURES

Intermittent discharge.
Discharges condensate at steam temperature.
Unaffected by water hammer and vibrations.
Easy to maintain.

| | |
|---|---|
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | IB 12-4; IB12-8; IB12-12. |
| SIZES: | DN ½" - 3/4" |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21)<br>Threaded flanges on request |
| INSTALLATION: | Horizontal installation<br>See IMI installation and maintenance instructions. |



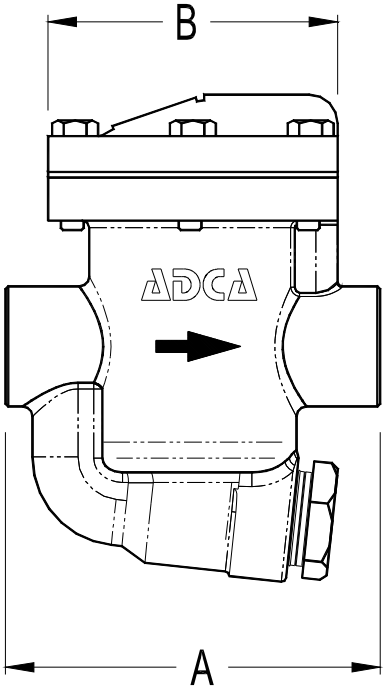

| BODY LIMITING CONDITIONS | |
|---|---|
| THREADED PN16 ALLOW. PRES. | RELATED TEMP. |
| 16 bar | 100 ºC |
| 15,5 bar | 150 ºC |
| 14,7 bar | 200 ºC |
| 13,9 bar | 250 ºC |

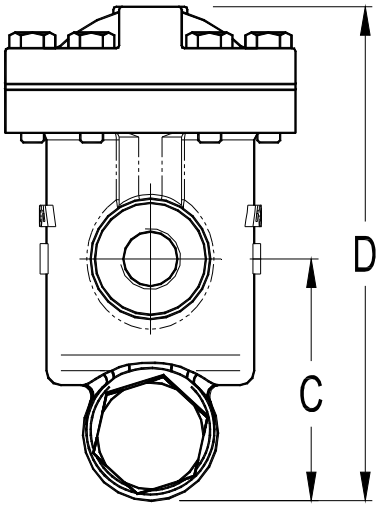
PMO - Max. operating pressure 14 bar
TMO - Max. operating temperature 198 ºC

## MAX. DIFFERENTIAL PRESSURE

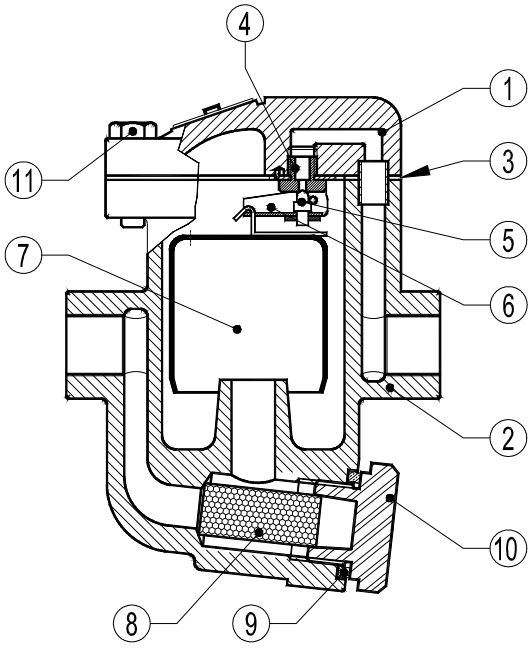
IB12 - 4 : 4 bar
IB12 - 8 : 8 bar
IB12-12 : 12 bar

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 11 | 12 |
| IB12-4 | 1/2" - 3/4" | 280 | 390 | 470 | 530 | | | | | | | |
| IB12-8 | 1/2" - 3/4" | 190 | 260 | 320 | 360 | 400 | 430 | 460 | 500 | | | |
| IB12-12 | 1/2" - 3/4" | 160 | 220 | 260 | 290 | 320 | 360 | 370 | 400 | 440 | 480 | 490 |




| DIMENSIONS (mm) | | | | | |
|---|---|---|---|---|---|
| ***SIZE DN*** | ***A*** | ***B*** | ***C*** | ***D*** | ***WGT. Kgs*** |
| 1/2" | 130 | 102 | 85 | 170 | 3,9 |
| 3/4" | 130 | 102 | 85 | 170 | 3,9 |




| MATERIALS | | |
|---|---|---|
| ***POS.Nr.*** | ***DESIGNATION*** | ***MATERIAL*** |
| 1 | Body | GJS-400-15 / 0.7040 |
| 2 | Cover | GJS-400-15 / 0.7040 |
| 3 | *Gasket | Stainless St. / Graphite |
| 4 | *Seat | AISI 410 / 1.4006 |
| 5 | *Valve | AISI 410 / 1.4006 |
| 6 | *Lever | AISI 304 / 1.4301 |
| 7 | *Bucket | AISI 304 / 1.4301 |
| 8 | *Strainer screen | AISI 304 / 1.4301 |
| 9 | Gasket | Stainless St. / Graphite |
| 10 | Plug | A105 / 1.0432 |
| 11 | Bolts | Steel 8.8 |

* Available spare parts

# INVERTED BUCKET STEAM TRAPS
# IBB 12

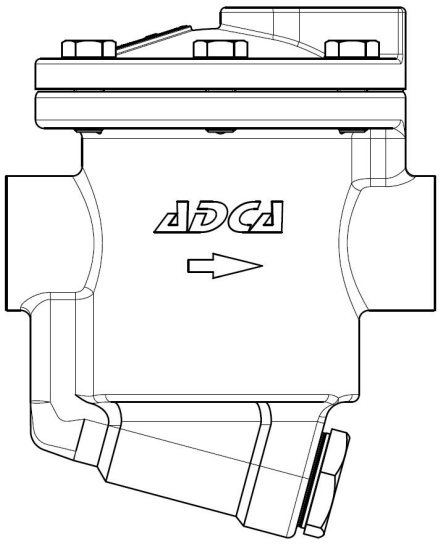
DESCRIPTION
IBB12 series inverted bucket steam traps are recommended for all services where the most important requirements are overall operating efficiency and long, trouble-free service life.
They operate intermittently, either wide open or tightly closed and are therefore best suited for service at medium and high steam pressures.
Connections are female screwed for horizontal installation.

MAIN FEATURES
Intermittent discharge.
Discharges condensate at steam temperature.
Unaffected by water hammer and vibrations.
Easy to maintain.

USE: Saturated and superheated steam.
AVAILABLE MODELS: IBB 12-4; IBB12-8; IBB12-12.

SIZES: DN 3/4" – 1"

CONNECTIONS: Female screwed ISO7/1 Rp (BS21)
Threaded flanges on request
INSTALLATION: Horizontal installation
See IMI installation and maintenance instructions.

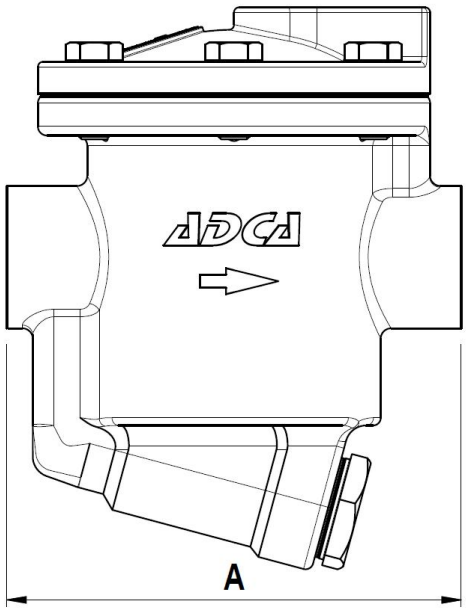


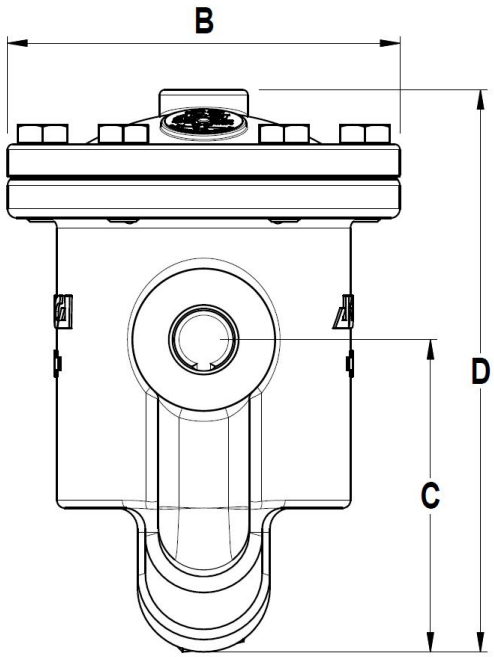
| BODY LIMITING CONDITIONS | |
|---|---|
| THREADED PN16 ALLOW. PRES. | RELATED TEMP. |
| 16 bar | 100 ºC |
| 15,5 bar | 150 ºC |
| 14,7 bar | 200 ºC |
| 13,9 bar | 250 ºC |

PMO - Max. operating pressure 14 bar
TMO - Max. operating temperature 198 ºC

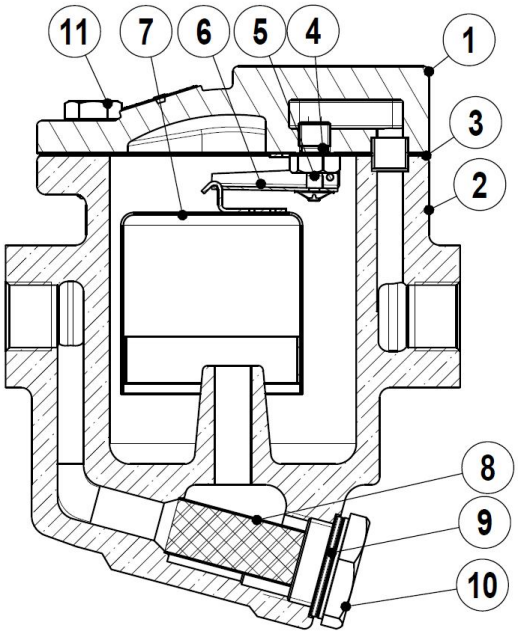
MAX. DIFFERENTIAL PRESSURE
IBB12 - 4 : 4 bar
IBB12 - 8 : 8 bar
IBB12-12 : 12 bar

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 11 | 12 |
| IBB12-4 | 3/4" - 1" | 1090 | 1340 | 1550 | 1670 | | | | | | | |
| IBB12-8 | 3/4" - 1" | 725 | 910 | 1030 | 1100 | 1160 | 1210 | 1250 | 1290 | | | |
| IBB12-12 | 3/4" - 1" | 570 | 720 | 810 | 860 | 920 | 950 | 985 | 1010 | 1060 | 1080 | 1100 |




| DIMENSIONS (mm) | | | | | |
|---|---|---|---|---|---|
| ***SIZE DN*** | ***A*** | ***B*** | ***C*** | ***D*** | ***WGT. Kgs*** |
| 3/4" | 175 | 150 | 127 | 219 | 7 |
| 1" | 175 | 150 | 127 | 219 | 6,9 |




| MATERIALS | | |
|---|---|---|
| ***POS.Nr.*** | ***DESIGNATION*** | ***MATERIAL*** |
| 1 | Body | GJS-400-15 / 0.7040 |
| 2 | Cover | GJS-400-15 / 0.7040 |
| 3 | *Gasket | Stainless St. / Graphite |
| 4 | *Seat | AISI 410 / 1.4006 |
| 5 | *Valve | AISI 410 / 1.4006 |
| 6 | *Lever | AISI 304 / 1.4301 |
| 7 | *Bucket | AISI 304 / 1.4301 |
| 8 | *Strainer screen | AISI 304 / 1.4301 |
| 9 | Gasket | Stainless St. / Graphite |
| 10 | Plug | A105 / 1.0432 |
| 11 | Bolts | Steel 8.8 |

* Available spare parts

# INVERTED BUCKET STEAM TRAPS
# IB30S (Carbon steel / stainless steel)
# IB30SS (All stainless steel)

## DESCRIPTION

IB30 series inverted bucket steam traps are recommended for all services where the most important requirements are overall operating efficiency and long, trouble-free service life. They operate intermittently, either wide open or tightly closed and are therefore best suited for service at medium and high steam pressures.
Connections are female screwed or flanged.

IB30S


IB30SS

## MAIN FEATURES

Intermittent discharge.
Discharges condensate at steam temperature.
Unaffected by water-hammer and vibrations.
Easy to maintain.

| | |
|---|---|
| OPTIONS: | Anti-freeze device |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | IB30S and IB30SS |
| SIZES: | DN ½" - DN 1" ; DN15 - DN25 |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21)<br>Flanged EN 1092-1 PN40 or ANSI |
| INSTALLATION: | Horizontal installation<br>See IMI installation and maintenance instructions. |

**BODY LIMITING CONDITIONS**

| IB30S | | IB30SS | | RELATED TEMP. |
|---|---|---|---|---|
| FLANGED PN 40 / ANSI 300 * | FLANGED ANSI 150 ** | FLANGED PN 40 / ANSI 300 * | FLANGED ANSI 150 ** | |
| ALLOW. PRES. | ALLOW. PRES. | ALLOW. PRES. | ALLOW. PRES. | |
| 37,1 bar | 15,4 bar | 40 bar | 16 bar | 100 ºC |
| 33,3 bar | 13,8 bar | 33,7 bar | 13,6 bar | 200 ºC |
| 25,7 bar | 8,4 bar | 28,5 bar | 8,4 bar | 350 ºC |
| 23,8 bar | 6,5 bar | 27,4 bar | 6,5 bar | 400 ºC |

PMO - Max. operating pressure 27 bar ; TMO - Max. operating temperature 380 ºc
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread, SW and BW.

## MAX. DIFFERENTIAL PRESSURE

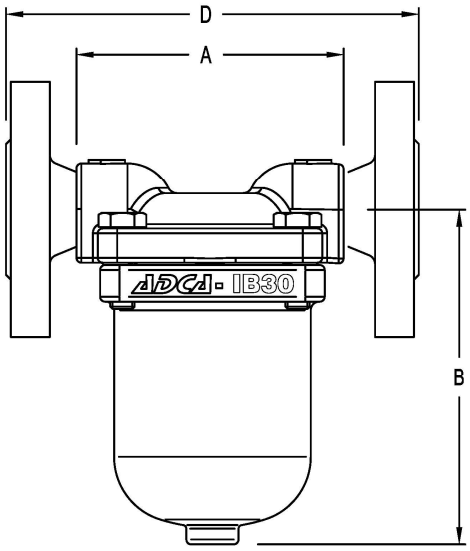
IB30S-4 – IB30SS-4 : 4 bar
IB30S-8 – IB30SS-8 : 8 bar
IB30S-12 – IB30SS-12: 12 bar

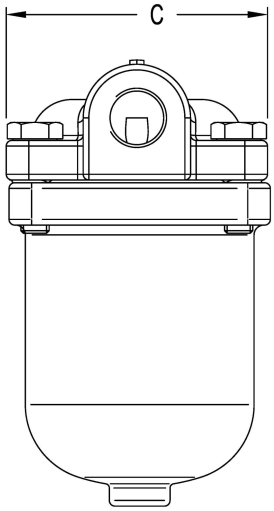
**FLOW RATE CAPACITY IN Kgs/h**

| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 11 | 12 |
| IB30-4 | 15 - 25 | 280 | 390 | 470 | 530 | | | | | | | |
| IB30-8 | 15 - 25 | 190 | 260 | 320 | 360 | 400 | 430 | 460 | 500 | | | |
| IB30-12 | 15 - 25 | 160 | 220 | 260 | 290 | 320 | 360 | 370 | 400 | 440 | 480 | 490 |



Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.231 E 06.07



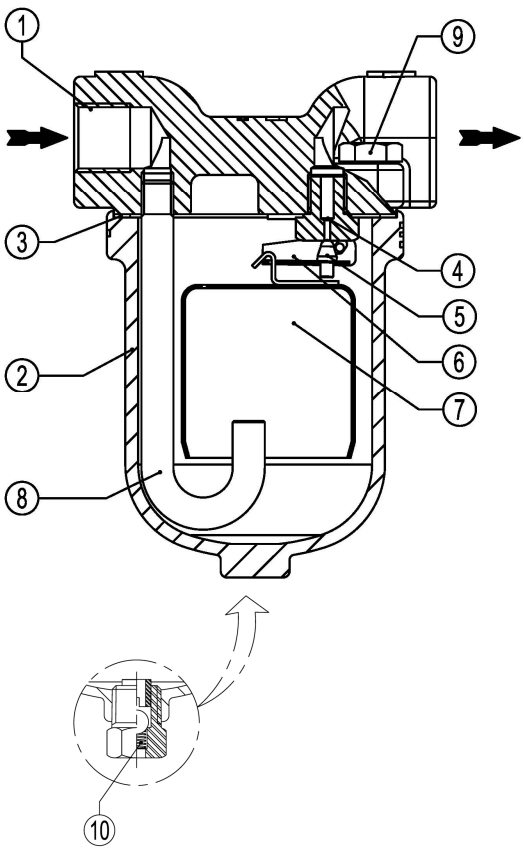




| DIMENSIONS (mm) - IB30S | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Screwed and SW* | | | | | EN PN16/40 | | ANSI 150 | | ANSI 300 | |
| SIZE DN | A | B | C | WGT. Kgs | D | WGT. Kgs | D | WGT. Kgs | D | WGT. Kgs |
| 15-1/2" | 110 | 125 | 92 | 2,3 | 170 | 3,8 | 170 | 3,3 | 170 | 4,1 |
| 20-3/4" | 110 | 125 | 92 | 2,3 | 170 | 4,3 | 170 | 3,7 | 170 | 5,3 |
| 25-1" | 110 | 125 | 92 | 2,3 | 180 | 4,9 | 180 | 4,5 | 180 | 6,1 |

* BW (butt weld) on request.

| DIMENSIONS (mm) - IB30SS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Screwed and SW* | | | | | EN PN16/40 | | ANSI 150 | | ANSI 300 | |
| SIZE DN | A | B | C | WGT. Kgs | D | WGT. Kgs | D | WGT. Kgs | D | WGT. Kgs |
| 15-1/2" | 110 | 125 | 92 | 2,3 | 170 | 3,8 | 170 | 3,3 | 170 | 4,1 |
| 20-3/4" | 110 | 125 | 92 | 2,3 | 170 | 4,3 | 170 | 3,7 | 170 | 5,3 |
| 25-1" | **160 | 125 | 92 | 2,3 | 180 | 4,9 | 180 | 4,5 | 180 | 6,5 |

* BW (butt weld) on request; ** With welded threaded socket




| MATERIALS | | | |
|---|---|---|---|
| POS.Nr. | DESIGNATION | IB30S | IB30SS |
| 1 | Body | P250GH / 1.0460 | CF8M / 1.4408 |
| 2 | Cover | CF8M / 1.4408 | CF8M / 1.4408 |
| 3 | *Gasket | Graphite | Graphite |
| 4 | *Seat | AISI 410 / 1.4006 | AISI 410 / 1.4006 |
| 5 | *Valve | AISI 410 / 1.4006 | AISI 410 / 1.4006 |
| 6 | *Lever | AISI 304 / 1.4301 | AISI 304 / 1.4301 |
| 7 | *Bucket | AISI 304 / 1.4301 | AISI 304 / 1.4301 |
| 8 | Inlet tube | AISI 304 / 1.4301 | AISI 304 / 1.4301 |
| 9 | Bolts | A2 - 70 | A2 - 70 |
| 10 | **Anti-freeze device | AISI 304 / 1.4301 | AISI 304 / 1.4301 |

* Available spare parts
**Optional

# INVERTED BUCKET STEAM TRAPS
# IB35S (Carbon steel / stainless steel)
# IB35SS (All stainless steel)

## DESCRIPTION

IB35 series inverted bucket steam traps are recommended for all services where the most important requirements are overall operating efficiency and long, trouble-free service life. They operate intermittently, either wide open or tightly closed and are therefore best suited for service at medium and high steam pressures.
Connections are female screwed or flanged.

IB35S


IB35SS

## MAIN FEATURES

Intermittent discharge.
Discharges condensate at steam temperature.
Unaffected by water-hammer and vibrations.
Easy to maintain.

| | |
|---|---|
| OPTIONS: | Anti-freeze device |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | IB35S and IB35SS |
| SIZES: | DN ½" - DN 1" ; DN15 - DN25 |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21)<br>Flanged EN 1092-1 PN40 or ANSI |
| INSTALLATION: | Horizontal installation<br>See IMI installation and maintenance instructions. |

**BODY LIMITING CONDITIONS**

| IB35S | | IB35SS | | RELATED TEMP. |
|---|---|---|---|---|
| FLANGED PN 40 / ANSI 300 * | FLANGED ANSI 150 ** | FLANGED PN 40 / ANSI 300 * | FLANGED ANSI 150 ** | |
| ALLOW. PRES. | ALLOW. PRES. | ALLOW. PRES. | ALLOW. PRES. | |
| 37,1 bar | 15,4 bar | 40 bar | 16 bar | 100 ºC |
| 33,3 bar | 13,8 bar | 33,7 bar | 13,6 bar | 200 ºC |
| 25,7 bar | 8,4 bar | 28,5 bar | 8,4 bar | 350 ºC |
| 23,8 bar | 6,5 bar | 27,4 bar | 6,5 bar | 400 ºC |

PMO - Max. operating pressure 27 bar ; TMO - Max. operating temperature 380 ºc
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread, SW and BW.

## MAX. DIFFERENTIAL PRESSURE

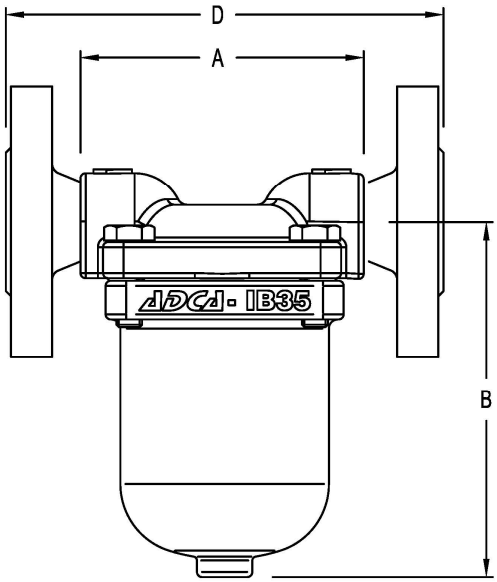
IB35S-17 – IB35SS-17 : 17 bar
IB35S-27 – IB35SS-27 : 27 bar

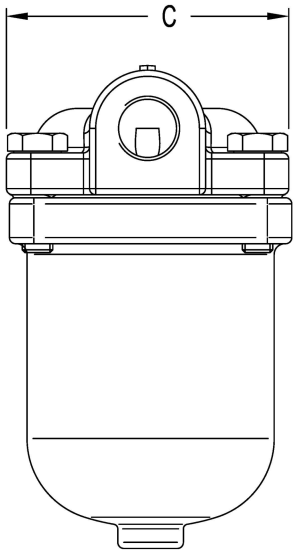
**FLOW RATE CAPACITY IN Kgs/h**

| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 11 | 12 | 14 | 17 | 20 | 22 | 24 | 27 |
| IB35-17 | 15 - 25 | 140 | 180 | 200 | 215 | 225 | 235 | 240 | 250 | 265 | 270 | 275 | 280 | 400 | | | | |
| IB35-27 | 15 - 25 | 80 | 100 | 115 | 120 | 125 | 132 | 137 | 140 | 150 | 153 | 155 | 158 | 233 | 240 | 245 | 250 | 255 |



Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.233 E 06.07



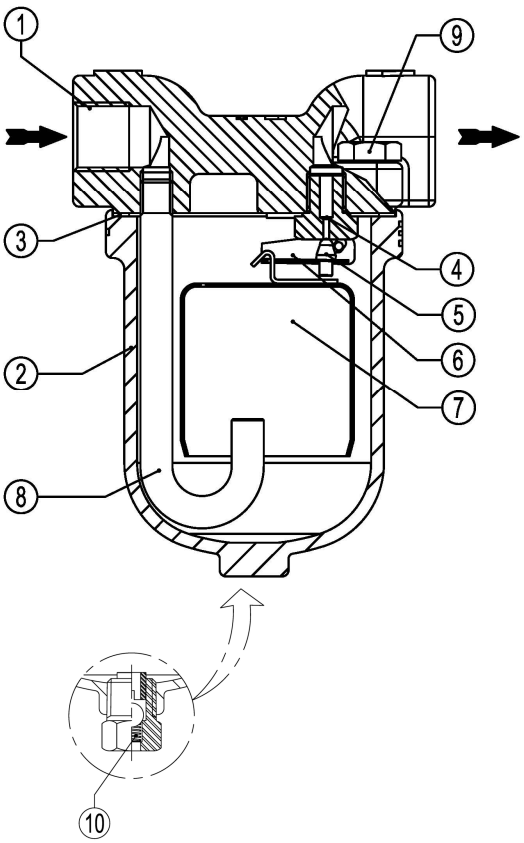




| DIMENSIONS (mm) - IB35S | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Screwed and SW* | | | | | EN PN16/40 | | ANSI 150 | | ANSI 300 | |
| SIZE DN | A | B | C | WGT. Kgs | D | WGT. Kgs | D | WGT. Kgs | D | WGT. Kgs |
| 15-1/2" | 110 | 125 | 92 | 2,3 | 170 | 3,8 | 170 | 3,3 | 170 | 4,1 |
| 20-3/4" | 110 | 125 | 92 | 2,3 | 170 | 4,3 | 170 | 3,7 | 170 | 5,3 |
| 25-1" | 110 | 125 | 92 | 2,3 | 180 | 4,9 | 180 | 4,5 | 180 | 6,1 |

* BW (butt weld) on request.

| DIMENSIONS (mm) - IB35SS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Screwed and SW* | | | | | EN PN16/40 | | ANSI 150 | | ANSI 300 | |
| SIZE DN | A | B | C | WGT. Kgs | D | WGT. Kgs | D | WGT. Kgs | D | WGT. Kgs |
| 15-1/2" | 110 | 125 | 92 | 2,3 | 170 | 3,8 | 170 | 3,3 | 170 | 4,1 |
| 20-3/4" | 110 | 125 | 92 | 2,3 | 170 | 4,3 | 170 | 3,7 | 170 | 5,3 |
| 25-1" | **160 | 125 | 92 | 2,3 | 180 | 4,9 | 180 | 4,5 | 180 | 6,5 |

* BW (butt weld) on request; ** With welded threaded socket




| MATERIALS | | | |
|---|---|---|---|
| POS.Nr. | DESIGNATION | IB35S | IB35SS |
| 1 | Body | P250GH / 1.0460 | CF8M / 1.4408 |
| 2 | Cover | CF8M / 1.4408 | CF8M / 1.4408 |
| 3 | *Gasket | Graphite | Graphite |
| 4 | *Seat | AISI 410 / 1.4006 | AISI 410 / 1.4006 |
| 5 | *Valve | AISI 410 / 1.4006 | AISI 410 / 1.4006 |
| 6 | *Lever | AISI 304 / 1.4301 | AISI 304 / 1.4301 |
| 7 | *Bucket | AISI 304 / 1.4301 | AISI 304 / 1.4301 |
| 8 | Inlet tube | AISI 304 / 1.4301 | AISI 304 / 1.4301 |
| 9 | Bolts | A2 - 70 | A2 - 70 |
| 10 | **Anti-freeze device | AISI 304 / 1.4301 | AISI 304 / 1.4301 |

* Available spare parts

**Optional

# INVERTED BUCKET STEAM TRAPS
# IB30S
# (DN 11/2" – 2"; DN 40 – 50)

## DESCRIPTION

IB30 series inverted bucket steam traps are recommended for all services where the most important requirements are overall operating efficiency and long, trouble-free service life. They operate intermittently, either wide open or tightly closed and are therefore best suited for service at medium and high steam pressures.
Connections are female screwed or flanged.

## MAIN FEATURES

Intermittent discharge.
Discharges condensate at steam temperature.
Unaffected by water-hammer and vibrations.
Easy to maintain.

| | |
|---|---|
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | IB30S |
| SIZES: | DN 1.½" - DN 2" ; DN40 – DN50 |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21)<br>Flanged EN 1092-1 PN25 or ANSI<br>Special flanges on request. |
| INSTALLATION: | Vertical installation<br>See IMI installation and maintenance instructions. |

| BODY LIMITING CONDITIONS | | |
|---|---|---|
| IB30S | | RELATED TEMP. |
| FLANGED PN 25 / ANSI 300 * | FLANGED ANSI 150 ** | |
| ALLOW. PRES. | ALLOW. PRES. | |
| 23,2 bar | 15,4 | 100 ºC |
| 20,8 | 13,8 | 200 ºC |
| 19 | 12,1 | 250 ºC |
| 17,2 | 10,2 | 300 ºC |

PMO - Max. operating pressure 17 bar;
TMO - Max. operating temperature 220 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN25 or below, depending on the type of connection adopted. Rating PN25 for thread, SW and BW.

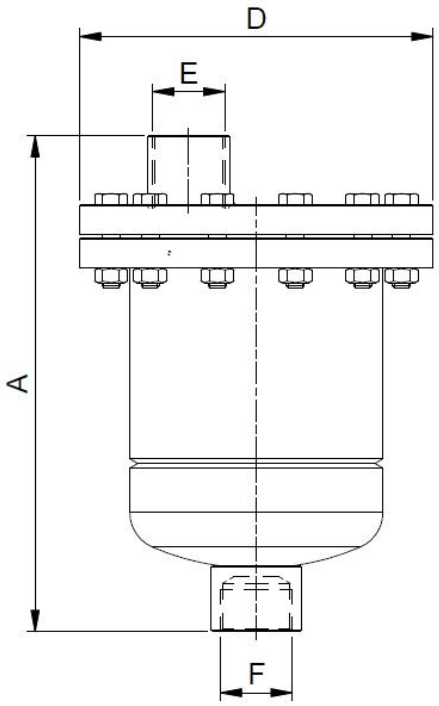
## MAX. DIFFERENTIAL PRESSURE

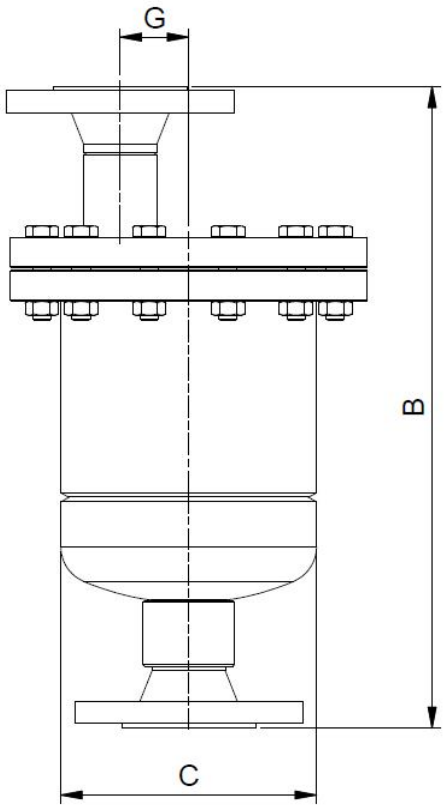
IB30S-4: 4 bar
IB30S-8 : 8 bar
IB30S-12: 12 bar

| CE MARKING (PED - European Directive 97/23/EC) | | |
|---|---|---|
| PN 16 | PN 25 | Category |
| DN40 - DN50 | DN40 - DN50 | 1 (CE Marked) |

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 11 | 12 |
| IB30-4 | 40 - 50 | 2200 | 2770 | 3220 | 3570 | | | | | | | |
| IB30-8 | 40 - 50 | 1850 | 2200 | 2560 | 2800 | 3070 | 3300 | 3500 | 3700 | | | |
| IB30-12 | 40 - 50 | 1150 | 1500 | 1720 | 1880 | 2050 | 2200 | 2325 | 2470 | 2670 | 2820 | 2900 |

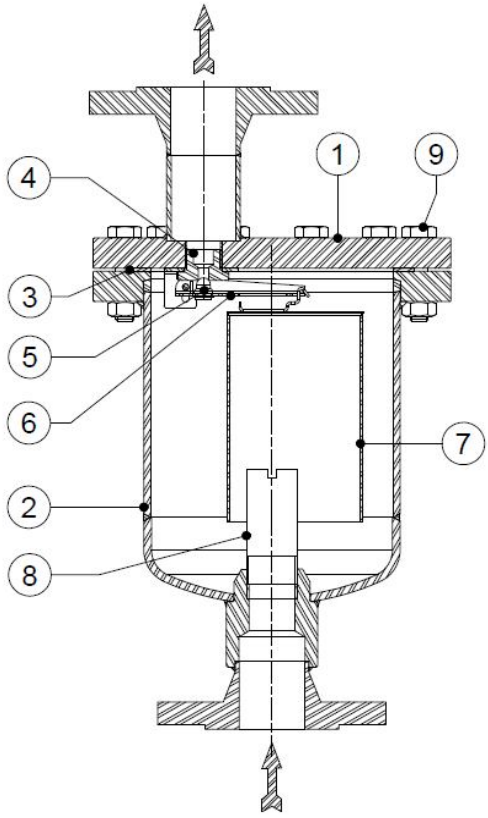
Recommend safety factor: continuous service = 1.2 - 1.5 ; discontinuous service = 2 - 3.




| DIMENSIONS (mm) - IB30S | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Screwed and SW* | | | | | EN PN16/25 | | ANSI 150 | | ANSI 300 | |
| SIZE DN | A | C | G | WGT. Kgs | B | WGT. Kgs | B | WGT. Kgs | B | WGT. Kgs |
| 40 -1.1/2" | 330 | 168,2 | 45 | 17,5 | 425 | 21,6 | 442 | 21,3 | 448 | 23,4 |
| 50 - 2" | 338 | 168,2 | 45 | 18 | 428 | 23,5 | 444 | 23,6 | 450 | 24,9 |

* BW (butt weld) on request.




| MATERIALS | | |
|---|---|---|
| POS.Nr. | DESIGNATION | MATERIAL |
| 1 | Body | S355J2G3 / 1.0570 |
| 2 | Cover | P235GH / 1.0345 |
| 3 | *Gasket | Graphite |
| 4 | *Seat | AISI 420 / 1.4021 |
| 5 | *Valve | AISI 420 / 1.4021 |
| 6 | *Lever | AISI 304 / 1.4301 |
| 7 | *Bucket | AISI 304 / 1.4301 |
| 8 | Inlet tube | P235GH / 1.0345 |
| 9 | Bolts | Steel 8.8 |

* Available spare parts

STEAM EQUIPMENT

# THERMODYNAMIC STEAM TRAPS
# DT 40S

DESCRIPTION

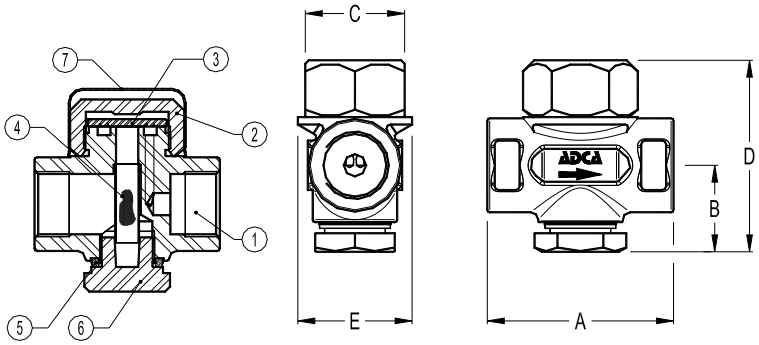
Thermodynamic DT40S disc steam traps are compact and lightweight-easy to install traps, excellent for high pressure systems, including steam tracing applications. These traps have only one moving part and offer a wide operating range, without adjustment. Connections are female screwed.

MAIN FEATURES

Intermittent discharge.
Operates on superheated steam.
The disc can be easily replaced in field without removing the trap from the line.
Unaffected by water-hammer and vibrations.
Integral seat.

| | |
|---|---|
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | DT 40S |
| SIZES: | DN3/8" to DN 1" |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21) |
| INSTALLATION: | Horizontal installation recommended. Can be installed in any position. |
| APPLICATION LIMITS: | Min-working pressure – 0,25 bar<br>Max. working back pressure – 80% |

| | |
|---|---|
| PMA – Max. allowable pressure | 63 bar |
| TMA – Max. allowable temperature | 400 ºC |
| PMO – Max. operating pressure | 40 bar |
| TMO – Max. operating temperature | 350 ºC |




**DIMENSIONS (mm)**

| SIZE DN | A | B | C | D | E | WGT. Kgs |
|---|---|---|---|---|---|---|
| 3/8" | 70 | 35 | 40 | 73,5 | 39 | 0,58 |
| 1/2" | 70 | 35 | 40 | 73,5 | 39 | 0,61 |
| 3/4" | 75 | 35 | 40 | 77,5 | 46 | 0,9 |
| 1" | 90 | 35 | 50 | 90 | 52,5 | 1,3 |

**MATERIALS**

| POS.Nr. | DESIGNATION | MATERIAL |
|---|---|---|
| 1 | Body | CA-40 / 1.4729 |
| 2 | Cover | AISI 304 / 1.4301 |
| 3 | * Disc | AISI 420 / 1.4021 |
| 4 | * Strainer screen | AISI 304 / 1.4301 |
| 5 | * Gasket | St.St./Graphite |
| 6 | Strainer cap | AISI 304 / 1.4301 |
| 7 | * Insulation cap | AISI 304 / 1.4301 |

*Available spare parts.

**FLOW RATE CAPACITY IN Kgs/h**

| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0,5 | 1 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 30 | 35 | 40 |
| DT 40S | 3/8" | 80 | 85 | 115 | 150 | 190 | 210 | 250 | 300 | 310 | 350 | 420 | 490 | 510 |
| DT 40S | 1/2" | 140 | 170 | 250 | 330 | 400 | 490 | 500 | 580 | 605 | 690 | 720 | 800 | 820 |
| DT 40S | 3/4" | 190 | 225 | 345 | 480 | 590 | 700 | 750 | 810 | 900 | 990 | 1100 | 1300 | 1390 |
| DT 40S | 1" | 290 | 350 | 500 | 700 | 830 | 995 | 1200 | 1290 | 1320 | 1500 | 1750 | 1800 | 1995 |

# THERMODYNAMIC STEAM TRAPS
# DT42S

DESCRIPTION
Thermodynamic DT42S disc steam traps are compact and lightweight-easy to install traps, excellent for high pressure systems, including steam tracing applications.
These traps have only one moving part and offer a wide operating range, without adjustment.
Connections are female screwed or flanged.

MAIN FEATURES
Intermittent discharge.
Operates on superheated steam.
The seat and disc can be easily replaced in field without removing the trap from the line.
Unaffected by water hammer and vibrations
Built-in easy-to-clean strainer.

| | |
|---|---|
| OPTIONS: | Insulation cap<br>Blow-off valve |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | DT 42S |
| SIZES: | DN ½" to DN 1" – DN15 to DN25 |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21)<br>Flanged EN1092-1 PN40-PN63 or ANSI |
| INSTALLATION: | Horizontal installation remommended.<br>Can be installed in any position. |
| APPLICATION LIMITS: | Min-working pressure – 0,25 bar<br>Max.working back pressure – 80% |

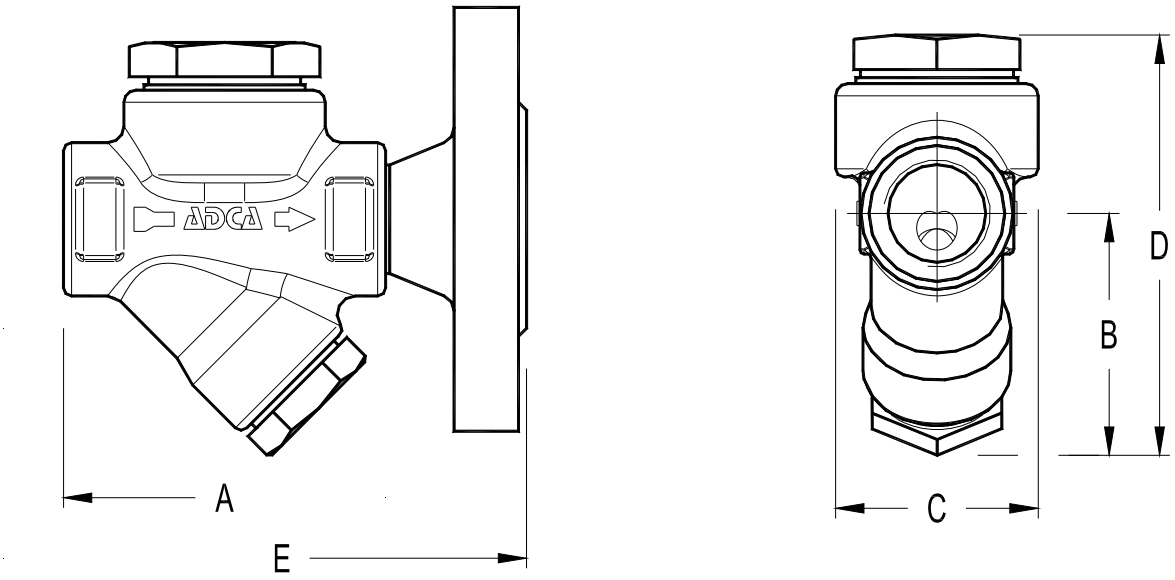
**BODY LIMITING CONDITIONS**

| FLANGED PN63 * | FLANGED PN40 / ANSI 300 * | FLANGED ANSI 150 ** | RELATED TEMP. |
|---|---|---|---|
| ALLOW. PRES. | ALLOW. PRES. | ALLOW. PRES. | |
| 63 bar | 40 bar | 19,3 bar | 50 ºC |
| 55,5 bar | 35 bar | 15,8 bar | 150 ºC |
| 48 bar | 30,4 bar | 12,1 bar | 250 ºC |
| 43,5 bar | 27,6 bar | 10,2 bar | 300 ºC |

PMO - Max. operating pressure 42 bar
TMO - Max. operating temperature 300 ºC
* Rating according to EN1092-1:2007 ** Rating according to EN1759-1:2004
Note: Body limiting conditions PN63 or below, depending on the type of connection adopted. Rating PN63 for thread, SW and BW.

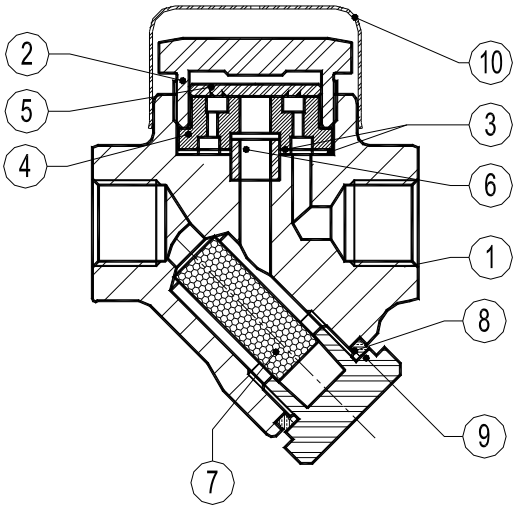
**FLOW RATE CAPACITY IN Kgs/h**

| MODEL | SIZE DN | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0,5 | 1 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 30 | 35 | 42 |
| DT 42S | 1/2"-15 | 200 | 210 | 350 | 480 | 580 | 660 | 740 | 800 | 850 | 910 | 1020 | 1100 | 1200 |
| DT 42S | 3/4"-20 | 310 | 320 | 520 | 720 | 860 | 980 | 1050 | 1175 | 1220 | 1350 | 1500 | 1600 | 1750 |
| DT 42S | 1"-25 | 470 | 485 | 800 | 1100 | 1310 | 1500 | 1750 | 1800 | 1950 | 2100 | 2300 | 2480 | 2720 |




| DIMENSIONS (mm) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Screwed and SW * | | | | | | EN PN16/PN40 | | EN PN63 | | ANSI 150 | | ANSI 300 | |
| SIZE DN | A | B | C | D | WGT. Kgs | E | WGT. Kgs | E | WGT. Kgs | E | WGT. Kgs | E | WGT. Kgs |
| 15-1/2" | 80 | 56 | 46 | 96 | 1 | 150 | 2,5 | 150 | 3,4 | 150 | 2 | 150 | 2,8 |
| 20-3/4" | 80 | 56 | 52 | 105 | 1,1 | 150 | 3,3 | 150 | 4,3 | 150 | 2,6 | 150 | 3,9 |
| 25-1" | 98 | 56 | 62 | 115 | 1,8 | 160 | 4,4 | 160 | 7,2 | 160 | 4 | 160 | 5,4 |

* BW (butt weld) on request.




| MATERIALS | | |
|---|---|---|
| POS.Nr. | DESIGNATION | MATERIAL |
| 1 | Body | P250GH / 1.0460 |
| 2 | Cover | AISI 304 / 1.4301 |
| 3 | *Gasket | Graphite |
| 4 | *Seat | Hardened St.Steel |
| 5 | *Valve disc | Hardened St.Steel |
| 6 | *Tube | AISI 304 / 1.4301 |
| 7 | *Strainer screen | AISI 304 / 1.4301 |
| 8 | *Gasket | StainlessSt./Graphite |
| 9 | Plug | A105 / 1.0432 |
| 10 | Insulating Cap | AISI 304 / 1.4301 |

*Available spare parts.

# THERMODYNAMIC STEAM TRAPS
# DT 32

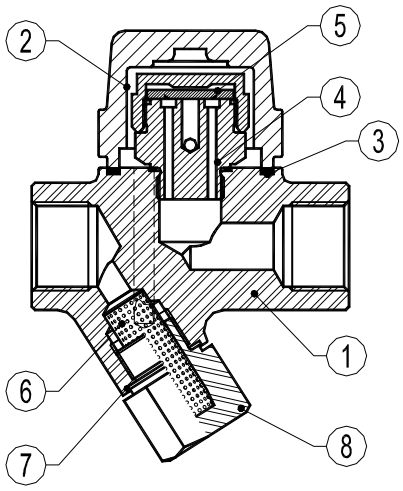
DESCRIPTION

Thermodynamic DT32 disc steam traps are compact and lightweight-easy to install traps, excellent for high pressure systems, including steam tracing applications.

A heating chamber in the cover ensures a consistent operation and makes it particularly suitable for those applications where the weather conditions such as rain and wind may affect the normal operation.

These traps have only one moving part and offer a wide operating range, without adjustment.

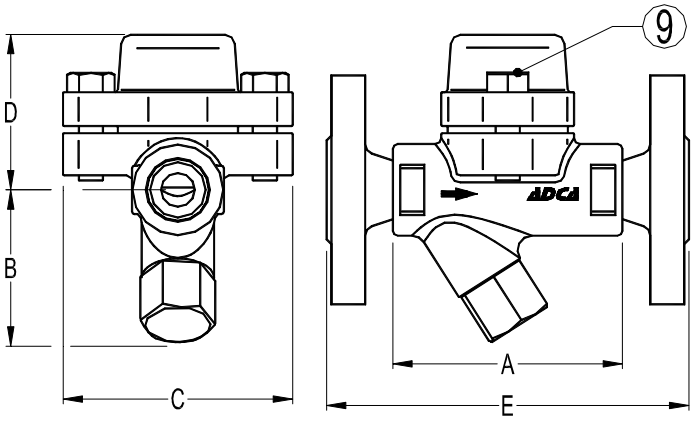
Connections are female screwed or flanged.




MAIN FEATURES

Intermittent discharge.
Unaffected by water-hammer and vibrations
Steam jacketed capsule (disc and cover set).
Replaceable capsule
Built-in easy-to-clean strainer.

| | |
|---|---|
| OPTIONS: | Blow-off valve |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | DT 32 |
| SIZES: | DN ½" to DN 1" – DN15 to DN25 |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21)<br>Flanged EN 1092-1 PN40 |
| INSTALLATION: | Horizontal installation recommended.<br>Can be installed in any position. |
| APPLICATION LIMITS: | Min-working pressure – 0,25 bar<br>Max. working back pressure – 80% |




| | |
|---|---|
| PMA – Max. allowable pressure | 40 bar |
| TMA – Max. allowable temperature | 400 ºC |
| PMO – Max. operating pressure | 32 bar |
| TMO – Max. operating temperature | 350 ºC |

How to order:i.e. DT32 DN ½" BSP

| DIMENSIONS (mm)-Screwed | | | | | | EN Flanges | |
|---|---|---|---|---|---|---|---|
| SIZE DN | A | B | C | D | WGT. Kgs | E | WGT. Kgs |
| 15 | 95 | 65 | 95 | 65 | 1,6 | 150 | 3,2 |
| 20 | 95 | 65 | 95 | 65 | 1,6 | 150 | 3,3 |
| 25 | 95 | 65 | 95 | 65 | 1,8 | 160 | 4,7 |

| MATERIALS | | |
|---|---|---|
| POS.Nr. | DESIGNATION | MATERIAL |
| 1 | Body | P250GH / 1.0460 |
| 2 | Cover | P250GH / 1.0460 |
| 3 | *Gasket | Graphite |
| 4 | *Seat | Hardened St.Steel |
| 5 | *Valve disc | Hardened St.Steel |
| 6 | *Strainer screen | AISI 304 / 1.4301 |
| 7 | *Gasket | Stainless st. / Graphite |
| 8 | Plug | A105 / 1.0432 |
| 9 | Bolts | A2-70 |

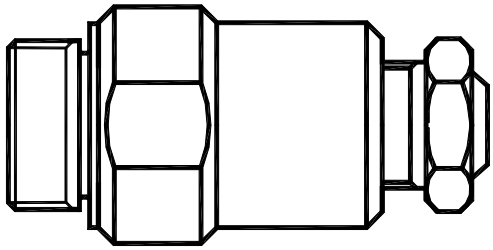
*Available spare parts.

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | |
| | | 0,5 | 1 | 2 | 3 | 6 | 8 | 10 | 12 | 15 | 18 | 21 | 24 | 32 |
| DT 32 | 15 - 25 | 130 | 180 | 200 | 240 | 355 | 410 | 500 | 550 | 600 | 640 | 710 | 750 | 800 |

# BLOWDOWN VALVE
# BDV

DESCRIPTION

The BDV blowdown valve is an optional supplied with integral strainer steam traps to protect the trap from contamination through the manual discharge of strainer contents. The device is applied to the following models:
- DT42S, DT32, TH32, BM20, BM32 and CDV.

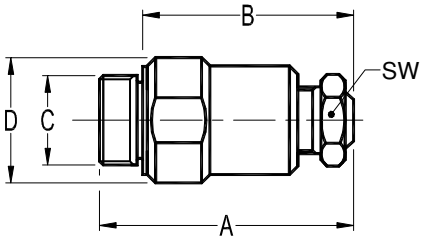


USE: Discharge of strainer screen contents
AVAILABLE MODELS: BDV-M22; BDV-M28 and BDV-10
SIZES: M22 ; M28 and 3/8”
CONNECTIONS: Threaded (metric and NPT)

Limiting conditions:
PMA – Max. allowable pressure 63 bar
TMA – Max. allowable temperature 400 ºC

**DIMENSIONS (mm)-Screwed**

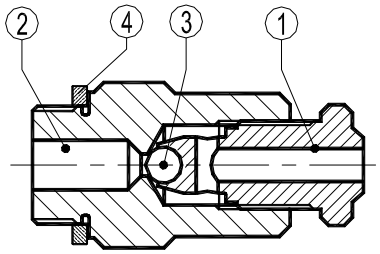
| MODEL | A | B | C | Ø D | SW | WGT. Kgs |
|---|---|---|---|---|---|---|
| BDV-M22 | 60 | 51 | M22 | 29 | 19 | 0,2 |
| BDV-M28 | 60 | 51 | M28 | 29 | 19 | 0,27 |
| BDV-10 | 60 | 51 | 3/8" | 40 | 19 | 0,18 |




**MATERIALS**

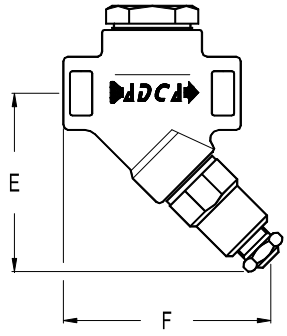
| POS.Nr. | DESIGNATION | MATERIAL |
|---|---|---|
| 1 | Screw | AISI 304 / 1.4301 |
| 2 | Body | AISI 304 / 1.4301 |
| 3 | Ball valve | AISI 440C / 1.4125 |
| 4 | Gasket | St.St./Graphite |

*Available spare parts.

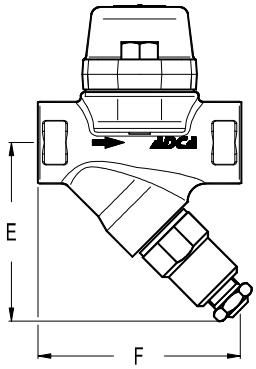



**DIMENSIONS WHEN APPLIED TO STEAM TRAPS (mm)**

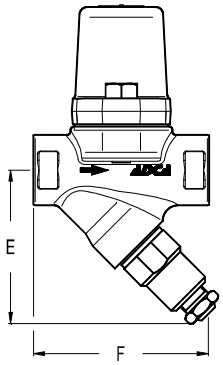
| SIZE DN | TRAP MODEL | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DT42S | | DT32 | | TH32 | | BM20 | | BM32 | | CDV | |
| | E | F | E | F | E | F | E | F | E | F | E | F |
| 1/2" - 15 | 80 | 94 | 83 | 94 | 83 | 94 | 83 | 94 | 83 | 94 | 83 | 94 |
| 3/4" - 20 | 80 | 94 | 83 | 94 | 83 | 94 | 83 | 94 | 83 | 94 | 83 | 94 |
| 1" - 25 | 90 | 103 | 83 | 94 | 83 | 94 | 83 | 94 | 83 | 94 | 83 | 94 |



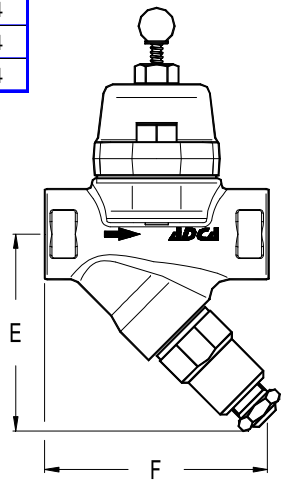

DT42S




DT32 / BM20 / TH32




BM32



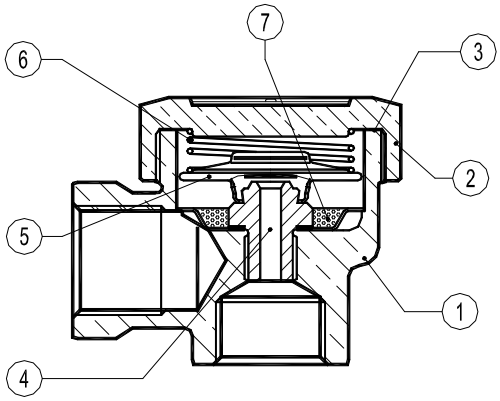

CDV

# THERMOSTATIC STEAM TRAPS AND AIR ELIMINATORS
# TH13A

DESCRIPTION
The TH 13A series thermostatic steam traps and air eliminators are specifically designed for use on process equipment such as kettle cookers, sterilizers, food, chemical and laundry equipment. The small size makes it ideal for use with a wide variety of this equipment and specifically as air eliminator.
Connections are female screwed.

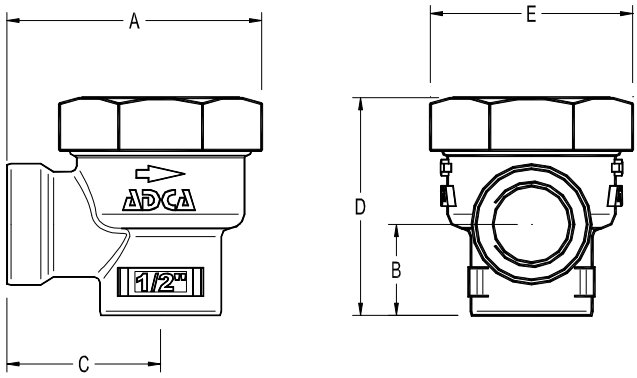
MAIN FEATURES
Modulating discharge.
Discharges condensate close to steam temperature.
Thermostats for different sub cooling (5ºK to 30ºK).
Excellent air discharge.
Simple and compact design.
Built-in strainer.

| | |
|---|---|
| USE: | Saturated steam. |
| AVAILABLE MODELS: | TH13A |
| SIZES: | DN ½" |
| CONNECTIONS: | Female screwed ISO 7/1 Rp (BS21) |
| INSTALLATION: | Vertical installation, angle connection. |




| | | |
|---|---|---|
| PMA – Max. allowable pressure | 16 | bar |
| TMA – Max. allowable temperature | 260 | ºC |
| PMO – Max. operating pressure | 13 | bar |
| TMO – Max. operating temperature | 200 | ºC |

How to order: i.e. TH13A DN ½" BSP




**MATERIALS**

| POS.Nr. | DESIGNATION | MATERIAL |
|---|---|---|
| 1 | Body | Brass EN12165 / CuZn39Pb2 |
| 2 | Cover | Brass EN12165 / CuZn39Pb2 |
| 3 | * Gasket | St.St./Graphite |
| 4 | * Valve seat | AISI304 / 1.4301 |
| 5 | * Thermostat | Stainless steel |
| 6 | * Spring | AISI302 / 1.4300 |
| 7 | * Strainer screen | AISI304 / 1.4301 |

* Available spare parts

**DIMENSIONS (mm)-Screwed**

| SIZE DN | A | B | C | D | E | WGT. Kgs |
|---|---|---|---|---|---|---|
| 1/2" | 63 | 22,5 | 38 | 54 | 50 | 0,5 |

**FLOW RATE CAPACITY IN Kgs/h**

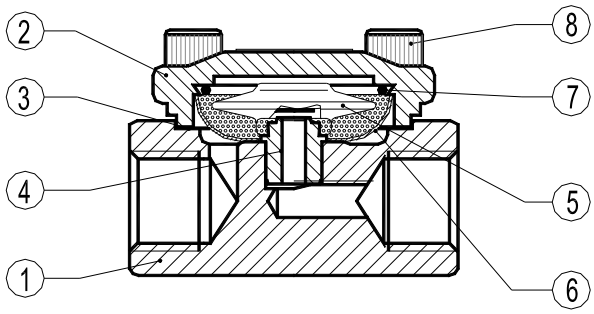
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0,2 | 0,3 | 0,5 | 1 | 1,5 | 2 | 3 | 4 | 6 | 8 | 10 | 13 |
| TH13A | 1/2" | 45 | 55 | 70 | 95 | 125 | 135 | 180 | 200 | 270 | 315 | 330 | 360 |

Capacities shown refer to condensate at 10ºC below saturated steam temperature (standard type-S thermostat) .
Thermostats for 5º C type-H and 30º type-L, also available.
Capacities for cold condensate discharge at 20ºC are two to three times greater.

# THERMOSTATIC STEAM TRAPS AND AIR ELIMINATORS
# TH 21
# (DN ½" - DN 15)

DESCRIPTION

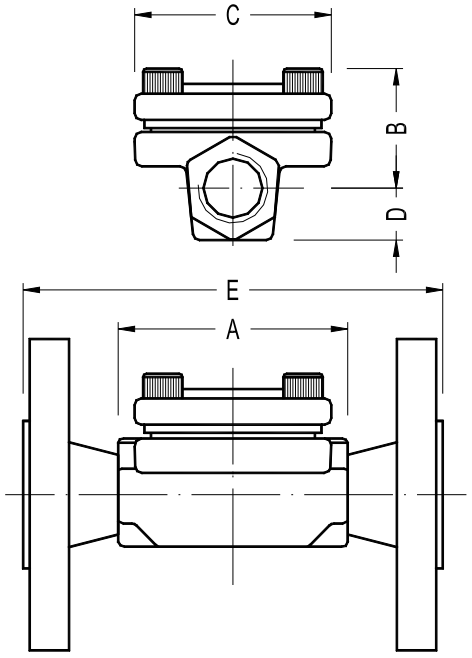
The TH21 series thermostatic steam traps and air eliminators are specifically designed for use on process equipment such as kettle cookers, sterilizers, food, chemical and laundry equipment.
Connections are female screwed or flanged.




MAIN FEATURES

Modulating discharge.
Discharges condensate close to steam temperature.
Thermostats for different sub cooling (5ºK to 30ºK).
Excellent air discharge .
Operates on moderate superheated steam.
Built-in strainer.

OPTIONS: LC-low capacity
USE: Saturated steam.
AVAIL.MODELS:
SIZES: TH21 ,TH21LC
CONNECTIONS: DN ½" ; DN15
Female screwed ISO 7/1 Rp (BS21)
Flanged EN 1092-1 PN25 or ANSI




| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN25 * ALLOW. PRES. | FLANGED ANSI 150 ** ALLOW. PRES. | RELATED TEMP. |
| 23,2 bar | 15,4 bar | 100 ºC |
| 20,8 bar | 13,8 bar | 200 ºC |
| 19 bar | 12,1 bar | 250 ºC |
| 17,2 bar | 10,2 bar | 300 ºC |

PMO - Max. op.pressure 21 bar;TMO - Max. Op.temperature 250 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN25 or below, depending on the type of connection adopted. Rating PN25 for thread.

| MATERIALS | | |
|---|---|---|
| *POS.Nr.* | *DESIGNATION* | *MATERIAL* |
| 1 | Body | P250GH / 1.0460 |
| 2 | Cover | P250GH / 1.0460 |
| 3 | * Gasket | St.St./Graphite |
| 4 | Valve seat | AISI304 / 1.4301 |
| 5 | * Thermostatic element | Stainless steel |
| 6 | * Strainer screen | AISI304 / 1.4301 |
| 7 | * Spring | AISI302 / 1.4300 |
| 8 | Bolts | Steel 8.8 |

* Available spare parts

| DIMENSIONS (mm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Screwed | | | | | | EN PN16 / 40 | | ANSI 150 | |
| *SIZE DN* | *A* | *B* | *C* | *D* | *WGT. Kgs* | *E* | *WGT. Kgs* | *E* | *WGT. Kgs* |
| 15-1/2" | 70 | 35 | 60 | 15 | 0,7 | 130 | 2,2 | 150 | 1,7 |

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *MODEL* | *SIZE* | *DIFFERENTIAL PRESSURE (bar)* | | | | | | | | | | | | | | |
| | | *0,2* | *0,3* | *0,5* | *1* | *1,5* | *2* | *3* | *4* | *6* | *8* | *10* | *13* | *15* | *20* | *21* |
| **TH21** | **1/2" -15** | 70 | 120 | 140 | 255 | 330 | 385 | 455 | 510 | 600 | 670 | 700 | 720 | 750 | 775 | 795 |
| **TH21LC** | **1/2" - 15** | 45 | 55 | 70 | 95 | 125 | 135 | 180 | 200 | 270 | 315 | 330 | 360 | 370 | 405 | 415 |

Capacities shown refer to condensate at 10ºC below saturated steam temperature (standard type-S thermostat) .
Thermostats for 5º C type-H and 30º type-L, also available. Capacities for cold condensate discharge at 20ºC are two to three times greater.

# THERMOSTATIC STEAM TRAPS AND AIR ELIMINATORS
## TH 21SS (Stainless steel)
## (DN ½" – 1"; DN 15 - 25)

DESCRIPTION

The TH21SS series thermostatic steam traps and air eliminators are specifically designed for use on process equipment such as kettle cookers, sterilizers, food, chemical and laundry equipment.
Connections are female screwed or flanged.

**TH21SS**

MAIN FEATURES

Modulating discharge.
Discharges condensate close to steam temperature.
Thermostats for different sub cooling (5ºK to 30ºK).
Excellent air discharge .
Operates on moderate superheated steam.
Built-in strainer.

| | |
|---|---|
| OPTIONS: | LC-low capacity |
| USE: | Saturated steam. |
| AVAILABLE MODELS: | TH21SS ,TH21SSLC, TH21/2SS |
| SIZES: | DN ½" to DN 1" ; DN15 to DN25 |
| CONNECTIONS: | Female screwed ISO 7/1 Rp (BS21)<br>Flanged EN 1092-1 PN40 or ANSI |
| INSTALLATION: | Horizontal installation recommended, can be installed in any position. |

**TH21/2SS**

| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN40 / ANSI 300* | FLANGED ANSI 150 ** | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | |
| 40 bar | 16 bar | 100 ºC |
| 33,7 bar | 13,6 bar | 200 ºC |
| 31,8 bar | 12 bar | 250 ºC |
| 29,7 bar | 10,2 bar | 300 ºC |

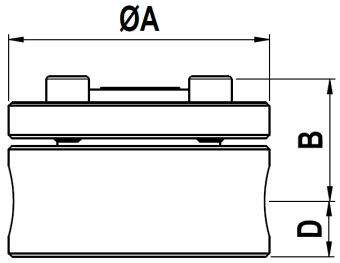
PMO - Max. op.pressure 21 bar;TMO - Max. Op.temperature 250 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread.

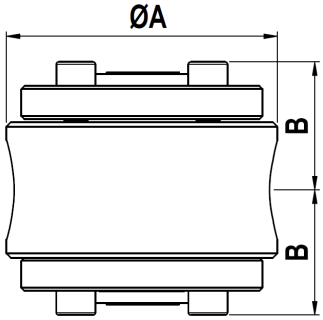
| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | | | |
| | | 0,2 | 0,3 | 0,5 | 1 | 1,5 | 2 | 3 | 4 | 6 | 8 | 10 | 13 | 15 | 20 | 21 |
| TH21SS | 15 - 25 | 70 | 120 | 140 | 255 | 330 | 385 | 455 | 510 | 600 | 670 | 700 | 720 | 750 | 775 | 795 |
| TH21SSLC | 15 - 25 | 45 | 55 | 70 | 95 | 125 | 135 | 180 | 200 | 270 | 315 | 330 | 360 | 370 | 405 | 415 |
| TH21/2SS | 25 | 140 | 240 | 280 | 510 | 660 | 770 | 910 | 1020 | 1200 | 1340 | 1400 | 1440 | 1500 | 1550 | 1590 |

Capacities shown refer to condensate at 10ºC below saturated steam temperature (standard type-S thermostat) .
Thermostats for 5º C type-H and 30º type-L, also available.
Capacities for cold condensate discharge at 20ºC are two to three times greater.

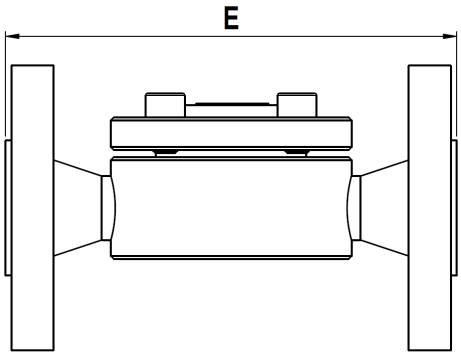


Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.555 E 01.07

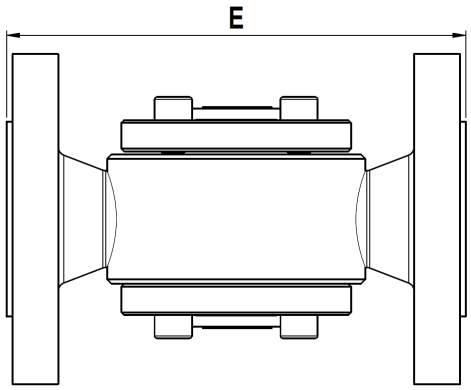



**TH21SS**

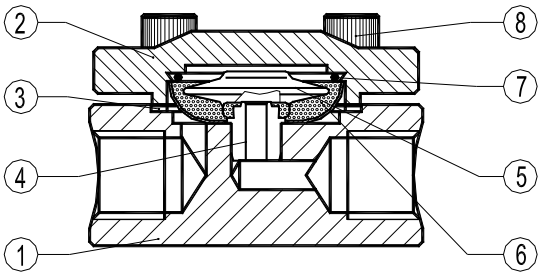


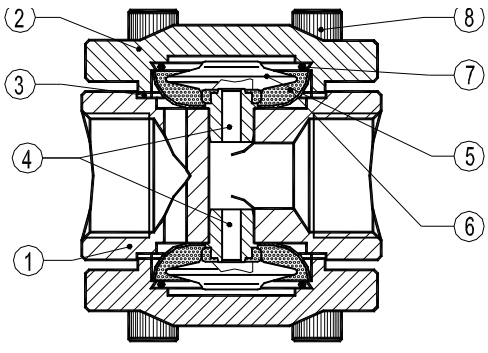

**TH21/2SS (Only DN25-1")**

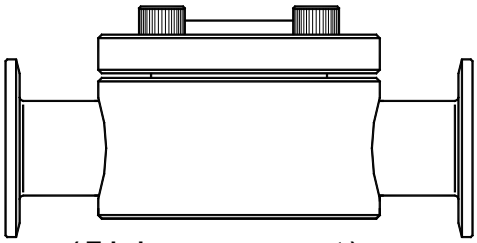



| DIMENSIONS (mm) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Screwed | | | | | EN PN16/40 | | ANSI 150 | | ANSI 300 | |
| *SIZE DN* | *A* | *B* | *D* | *WGT.* Kgs* | *E* | *WGT. * Kgs* | *E* | *WGT.* Kgs* | *E* | *WGT.* Kgs* |
| 15-1/2" | 80 | 35 | 17 | 1,8 | 150 | 3,3 | 150 | 2,8 | 150 | 3,6 |
| 20-3/4" | 80 | 37 | 20 | 1,9 | 150 | 4,1 | 150 | 3,2 | 150 | 4,8 |
| 25-1" | 80 | 40 | 23 | 2,1 | 160 | 5,1 | 160 | 4,3 | 160 | 5,9 |

* Additional weight for the TH21/2 : 0,15 kgs



**( Tri-clamp – on request )**

| MATERIALS | | |
|---|---|---|
| *POS.Nr.* | *DESIGNATION* | *MATERIAL* |
| 1 | Body | AISI316 / 1.4401 |
| 2 | Cover | AISI316 / 1.4401 |
| 3 | * Gasket | St.St./Graphite |
| 4 | * Valve seat | AISI304 / 1.4301 |
| 5 | * Thermostatic element | Stainless steel |
| 6 | * Strainer screen | AISI304 / 1.4301 |
| 7 | * Spring | AISI302 / 1.4300 |
| 8 | Bolts | St.Steel A2-70 |

* Available spare parts

# THERMOSTATIC STEAM TRAPS AND AIR ELIMINATORS
# TH 32 Y – TH32Y/CK
# (DN ½" – 1"; DN 15 – 25)

DESCRIPTION

The TH32Y series thermostatic steam traps and air eliminators are specifically designed for use on process equipment such as kettle cookers, sterilizers, food, chemical and laundry equipment.
Connections are female screwed or flanged.

MAIN FEATURES

Modulating discharge.
Discharges condensate close to steam temperature.
Thermostats for different sub cooling (5ºK to 30ºK).
Excellent air discharge .
Operates on moderate superheated steam.
Built-in strainer.

OPTIONS: LC-low capacity
Integral check valve
Blowdown valve

USE: Saturated steam.

AVAILABLE MODELS: TH32Y, TH32Y-CK (with check valve)

SIZES: DN ½" to 1"; DN15 to DN25.

CONNECTIONS: Female screwed ISO 7/1 Rp (BS21)
Flanged EN 1092-1 PN40 or ANSI

INSTALLATION: Horizontal installation recommended, can be installed in any position.
See IMI installation and maintenance instructions.

| BODY LIMITING CONDITIONS | | |
|---|---|---|
| **FLANGED PN40 / ANSI 300 *** | **FLANGED ANSI 150 **** | **RELATED TEMP.** |
| **ALLOW. PRES.** | **ALLOW. PRES.** | |
| 40 bar | 19,3 bar | 50 ºC |
| 35 bar | 15,8 bar | 150 ºC |
| 30,4 bar | 12,1 bar | 250 ºC |
| 27,6 bar | 10,2 bar | 300 ºC |

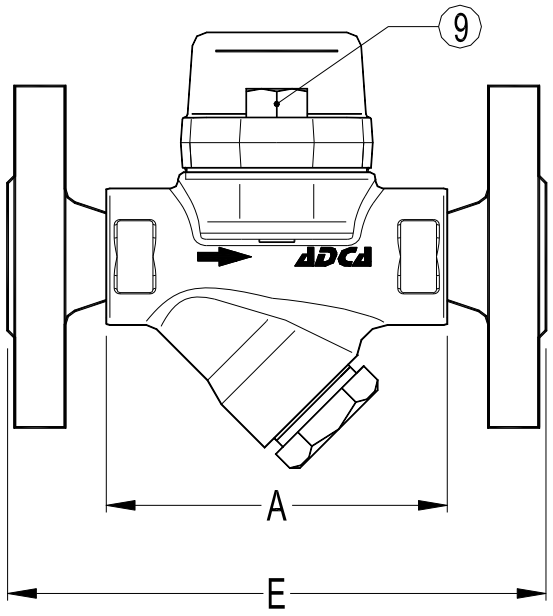
PMO - Max. operating pressure 22 bar
TMO - Max. operating temperature 250 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread, SW and BW.

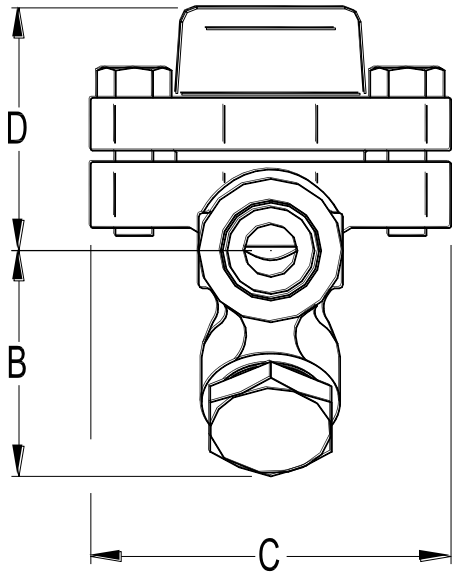
| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***MODEL*** | ***SIZE*** | ***DIFFERENTIAL PRESSURE (bar)*** | | | | | | | | | | | | | |
| | | ***0,2*** | ***0,3*** | ***0,5*** | ***1*** | ***1,5*** | ***2*** | ***3*** | ***4*** | ***6*** | ***8*** | ***10*** | ***13*** | ***15*** | ***20*** | ***22*** |
| **TH32Y** | **15 - 25** | 70 | 120 | 140 | 255 | 330 | 385 | 455 | 510 | 600 | 670 | 700 | 720 | 750 | 775 | 795 |
| **TH32YLC** | **15 - 25** | 45 | 55 | 70 | 95 | 125 | 135 | 180 | 200 | 270 | 315 | 330 | 360 | 370 | 405 | 415 |

Capacities shown refer to condensate at 10ºC below saturated steam temperature (standard type-S thermostat) .
Thermostats for 5º C type-H and 30º type-L, also available.
Capacities for cold condensate discharge at 20ºC are two to three times greater.

| DIMENSIONS (mm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Screwed and SW* | | | | | | EN PN16/PN40 | | ANSI 150 | | ANSI 300 | |
| SIZE DN | A | B | C | D | WGT. Kgs | E | WGT. Kgs | E | WGT. Kgs | E | WGT. Kgs |
| 15-1/2" | 95 | 59 | 95 | 65 | 1,6 | 150 | 3,2 | 150 | 2,7 | 150 | 3,5 |
| 20-3/4" | 95 | 59 | 95 | 65 | 1,6 | 150 | 3,9 | 150 | 3,1 | 150 | 4,7 |
| 25-1" | 95 | 65 | 95 | 65 | 1,8 | 160 | 4,7 | 160 | 4,3 | 160 | 5,9 |

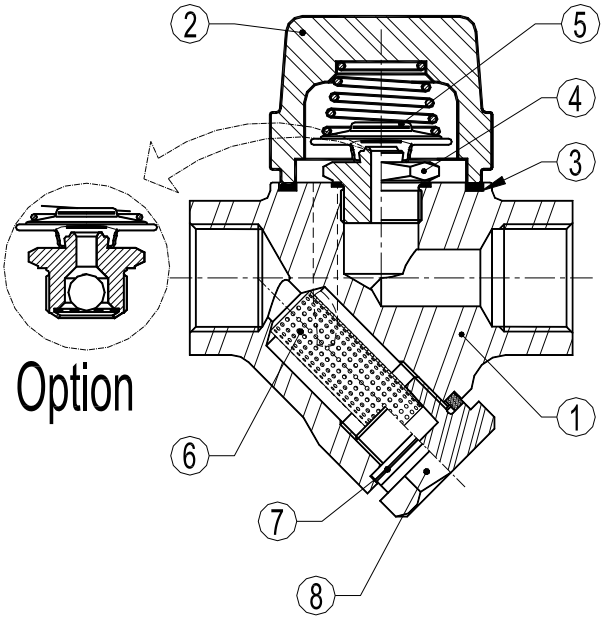
* BW (butt weld) on request.




| MATERIALS | | |
|---|---|---|
| POS.Nr. | DESIGNATION | MATERIAL |
| 1 | Body | P250GH / 1.0460 |
| 2 | Cover | P250GH / 1.0460 |
| 3 | * Gasket | St.St./Graphite |
| 4 | * Valve seat | AISI304 / 1.4301 |
| 5 | * Thermostatic element | Stainless steel |
| 6 | * Strainer screen | AISI304 / 1.4301 |
| 7 | * Gasket | St.Steel / Graphite |
| 8 | Cover strainer | A 105 / 1.0432 |
| 9 | Bolts | A2-70 |

* Available spare parts



# THERMOSTATIC STEAM TRAPS AND AIR ELIMINATORS
# TSS 22 (Complete stainless steel)

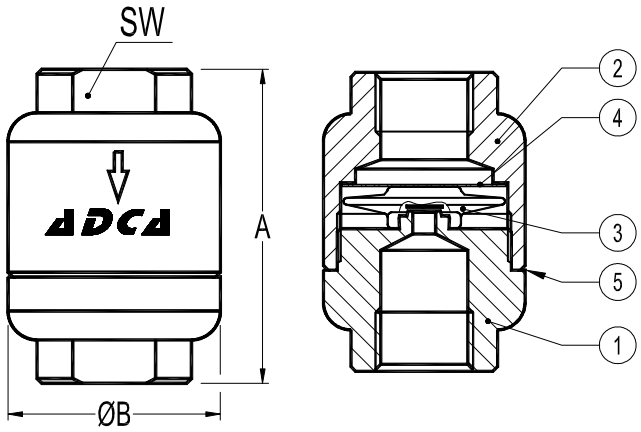
DESCRIPTION

The TSS22 all stainless steel thermostatic steam traps and air eliminators are specifically designed for use on process equipment such as kettle cookers, sterilizers, food, chemical and laundry equipment. The small size makes it ideal for use with a wide variety of this equipment.
Connections are female screwed.

MAIN FEATURES

Modulating discharge.
Discharges condensate close to steam temperature.
Thermostats for different sub cooling (5ºK to 30ºK).
Excellent air discharge.
Operates on moderate superheated steam.
Simple and compact design.

| | |
|---|---|
| OPTIONS: | Welded body |
| USE: | Saturated steam |
| AVAILABLE MODELS: | TSS22 |
| SIZES: | ¼", 3/8", ½", ¾" and 1". |
| CONNECTIONS: | Female screwed ISO 7/1 RP (BS21) |
| INSTALLATION: | Horizontal or vertical installation<br>See IMI installation and maintenance instructions. |




| BODY LIMITING CONDITIONS | |
|---|---|
| THREADED PN 40<br>ALLOW. PRES. | RELATED TEMP. |
| 34,4 bar | 100 ºC |
| 30,8 bar | 150 ºC |
| 28 bar | 200 ºC |
| 26 bar | 250 ºC |

PMO - Max. operating pressure 22 bar
TMO - Max. operating temperature 250 ºC

| DIMENSIONS (mm) | | | | |
|---|---|---|---|---|
| *SIZE DN* | *A* | *B* | *SW* | *WEIGHT Kgs* |
| 1/4" | 65 | 44 | 27 | 0,5 |
| 3/8" | 65 | 44 | 27 | 0,5 |
| 1/2" | 65 | 44 | 27 | 0,45 |
| 3/4" | 65 | 44 | 36 | 0,47 |
| 1" | 65 | 44 | 40 | 0,4 |

| MATERIALS | | |
|---|---|---|
| *POS.Nr.* | *DESIGNATION* | *MATERIAL* |
| 1 | Body | AISI304 / 1.4301 |
| 2 | Cover | AISI304 / 1.4301 |
| 3 | * Thermostatic element | Stainless steel |
| 4 | * Strainer screen | AISI304 / 1.4301 |
| 5 | * Gasket | St.Steel / Graphite |

* Available spare parts

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *MODEL* | *SIZE* | *DIFFERENTIAL PRESSURE (bar)* | | | | | | | | | | | | | |
| | | *0,2* | *0,3* | *0,5* | *1* | *1,5* | *2* | *3* | *4* | *6* | *8* | *10* | *13* | *15* | *20* | *22* |
| **TSS 22** | **1/4" - 1"** | 45 | 55 | 70 | 95 | 125 | 135 | 180 | 200 | 270 | 315 | 330 | 360 | 370 | 405 | 415 |

Capacities shown refer to condensate at 10ºC below saturated steam temperature (standard type-S thermostat) .
Thermostats for 5º C type-H and 30º type-L, also available. Capacities for cold condensate discharge at 20ºC are two to three times greater.

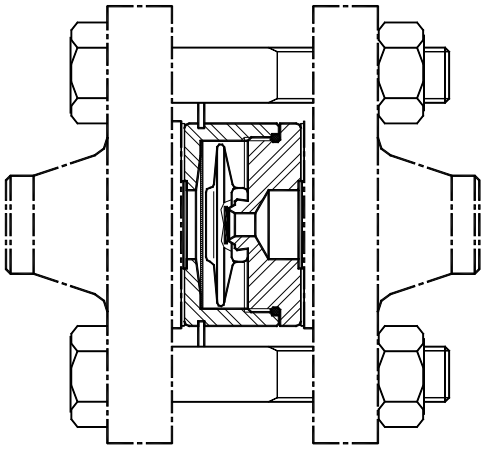




Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. **IS 1.532 E 01.08**

STEAM EQUIPMENT

# THERMOSTATIC STEAM TRAPS AND AIR ELIMINATORS
## TSW 22 (Stainless Steel Wafer Design)



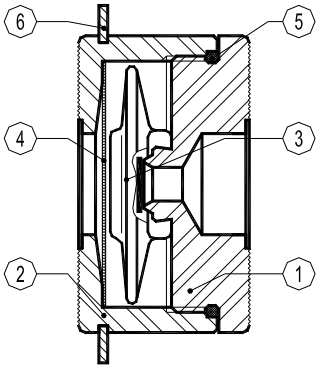
DESCRIPTION

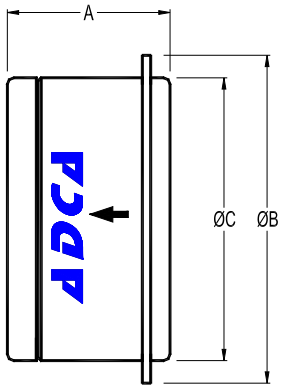
The TSW22 all stainless steel thermostatic steam traps and air eliminators are specifically designed for use on process equipment such as kettle cookers, sterilizers, food, chemical and laundry equipment. The small size makes it ideal for use with a wide variety of this equipment.
Connections are flanged (sandwich).

MAIN FEATURES

Modulating discharge.
Discharges condensate close to steam temperature.
Thermostats for different sub cooling (5ºK to 30ºK).
Excellent air discharge.
Operates on moderate superheated steam.
Simple and compact design.
Can operate in any position.

| | |
|---|---|
| USE: | Saturated steam |
| AVAILABLE MODELS: | TSW 22 |
| SIZES: | DN15 to DN 25 |
| CONNECTIONS: | Sandwiched between flanges as per EN 1092-1 PN16/PN40 |
| INSTALLATION: | Any position |




| BODY LIMITING CONDITIONS | |
|---|---|
| WAFER PN 40 ALLOW. PRES. | RELATED TEMP. |
| 34,4 bar | 100 ºC |
| 30,8 bar | 150 ºC |
| 28 bar | 200 ºC |
| 26 bar | 250 ºC |

PMO - Max. operating pressure 22 bar
TMO - Max. operating temperature 250 ºC

| DIMENSIONS (mm) | | | | |
|---|---|---|---|---|
| SIZE DN | A | B | C | WEIGHT Kgs |
| 15 | 25 | 51 | 43 | 0,25 |
| 20* | 31,5 | 61 | 53 | 0,45 |
| 25 | 35,5 | 71 | 64 | 0,75 |

*DN 20 is suitable for installation between flanges DN15 removing the centering ring.

| MATERIALS | | |
|---|---|---|
| POS.Nr. | DESIGNATION | MATERIAL |
| 1 | Body | AISI304 / 1.4301 |
| 2 | Cover | AISI304 / 1.4301 |
| 3 | * Thermostatic element | Stainless steel |
| 4 | * Strainer screen | AISI304 / 1.4301 |
| 5 | * Gasket | St.Steel / Graphite |
| 6 | Centering ring | AISI304 / 1.4301 |

* Available spare parts

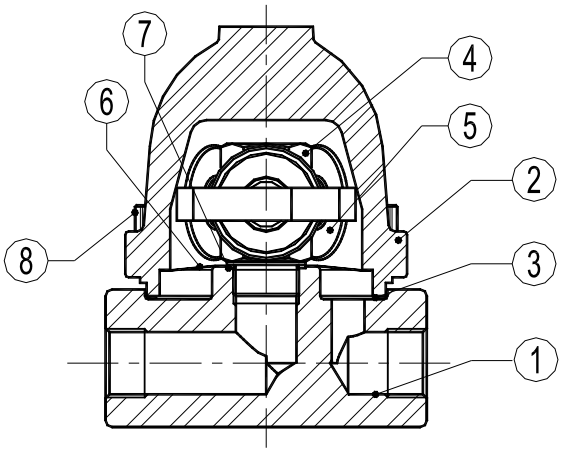
| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | | |
| | | 0,2 | 0,3 | 0,5 | 1 | 1,5 | 2 | 3 | 4 | 6 | 8 | 10 | 13 | 15 | 20 | 22 |
| TSW 22 | 15 - 25 | 70 | 120 | 140 | 255 | 330 | 385 | 455 | 510 | 600 | 670 | 700 | 720 | 750 | 775 | 795 |

Capacities shown refer to condensate at 10ºC below saturated steam temperature (standard type-S thermostat) .
Thermostats for 5º C type-H and 30º type-L, also available. Capacities for cold condensate discharge at 20ºC are two to three times greater.

VALSTEAM ADCA

ADCA
STEAM EQUIPMENT

# THERMOSTATIC STEAM TRAPS AND AIR ELIMINATORS
# TH 35/2 – TH 35/3
# (DN 1" – DN 25)

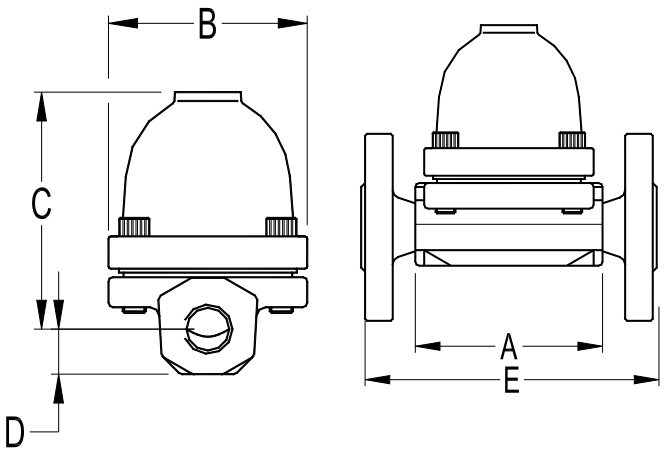



DESCRIPTION

The TH35 series thermostatic steam traps and air eliminators are specifically designed for use on process equipment such as kettle cookers, sterilizers, food, chemical and laundry equipment.
Connections are female screwed or flanged.

MAIN FEATURES
Modulating discharge.
Discharges condensate close to steam temperature.
Excellent air discharge .
Operates on moderate superheated steam.
Built-in strainer.

OPTIONS: Stainless steel construction
USE: Saturated steam.
AVAILABLE MODELS: TH35/2 – 2 capsules
TH35/3 – 3 capsules
SIZES: DN1" - DN 25.
CONNECTIONS: Female screwed ISO 7/1 Rp (BS21)
Flanged EN 1092-1 PN40 or ANSI




| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN40 / ANSI 300 * | FLANGED ANSI 150 ** | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | |
| 40 bar | 19,3 bar | 50 ºC |
| 35 bar | 15,8 bar | 150 ºC |
| 30,4 bar | 12,1 bar | 250 ºC |
| 27,6 bar | 10,2 bar | 300 ºC |

PMO - Max. operating pressure 22 bar
TMO - Max. operating temperature 250 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread, SW and BW.

| DIMENSIONS (mm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Screwed and SW* | | | | | | EN PN16/PN40 | | ANSI 150 | | ANSI 300 | |
| SIZE DN | A | B | C | D | WT. Kgs | E | WT. Kgs | E | WT. Kgs | E | WT. Kgs |
| 25-1" | 95 | 98 | 103 | 20 | 2,8 | 160 | 5,4 | 160 | 5 | 160 | 6,6 |

* BW (butt weld) on request.

| MATERIALS | | |
|---|---|---|
| POS.Nr. | DESIGNATION | MATERIAL |
| 1 | Body | P250GH / 1.0460 |
| 2 | Cover | P250GH / 1.0460 |
| 3 | * Gasket | St.St./Graphite |
| 4 | * Valve seat | AISI304 / 1.4301 |
| 5 | * Thermostats | Stainless steel |
| 6 | * Strainer screen | AISI304 / 1.4301 |
| 7 | * Gasket | Copper |
| 8 | Bolts | Steel 8.8 |

* Available spare parts

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | | | |
| | | 0,2 | 0,3 | 0,5 | 1 | 1,5 | 2 | 3 | 4 | 6 | 8 | 10 | 13 | 15 | 20 | 22 |
| TH35/2 | 25 - 1" | 140 | 240 | 280 | 510 | 660 | 770 | 910 | 1020 | 1200 | 1340 | 1400 | 1440 | 1500 | 1550 | 1590 |
| TH35/3 | 25 - 1" | 210 | 360 | 420 | 765 | 990 | 1155 | 1365 | 1530 | 1800 | 2010 | 2100 | 2160 | 2250 | 2325 | 2385 |

Capacities shown refer to condensate at 5ºC below saturated steam temperature .
Capacities for cold condensate discharge at 20ºC are two to three times greater.

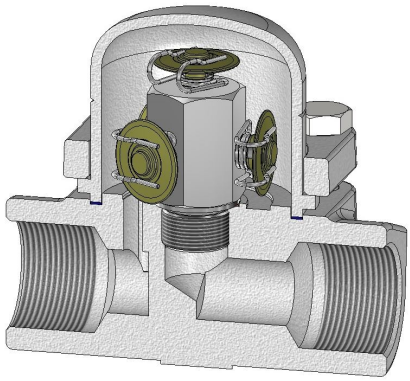
# THERMOSTATIC STEAM TRAPS AND AIR ELIMINATORS
# TH 36
# (DN 40 – DN 50)

DESCRIPTION

The TH36 series thermostatic steam traps and air eliminators are specifically designed for use on process equipment such as kettle cookers, sterilizers, food, chemical and laundry equipment where high discharge capacities are required.
Connections are screwed or flanged.

MAIN FEATURES
Modulating discharge.
Discharges condensate close to steam temperature.
Excellent air discharge .
Operates on moderate superheated steam.

| | |
|---|---|
| OPTIONS: | Stainless steel construction |
| USE: | Saturated steam. |
| AVAILABLE MODELS: | TH36/4 – 4 capsules<br>TH36/6 – 6 capsules |
| SIZES: | DN11/2" - 2"; DN 40 - DN 50 |
| CONNECTIONS: | Female screwed BSP or NPT<br>Flanged EN 1092-1 PN40 or ANSI<br>SW - Socket weld to ANSI B 16.11<br>BW - Butt weld to ANSI B16.25 |
| INSTALLATION: | Horizontal installation recommended, can be installed in any position.<br>See IMI installation and maintenance instructions. |



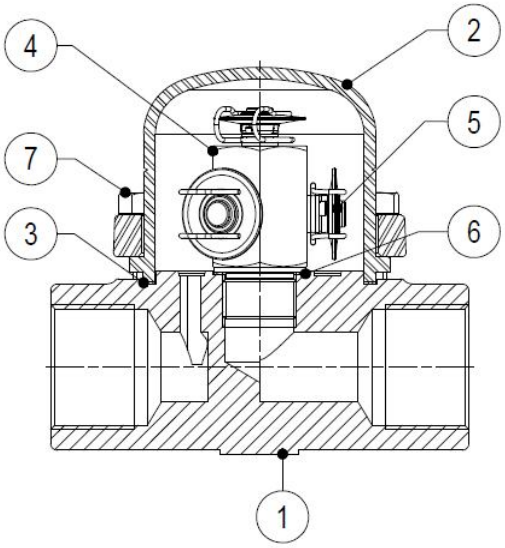
| CE MARKING (PED - European Directive) | |
|---|---|
| **PN 40** | **Category** |
| DN 40-50 | 1 (CE Marked) |

| BODY LIMITING CONDITIONS | | |
|---|---|---|
| **FLANGED PN40 / ANSI 300 *** | **FLANGED ANSI 150 **** | **RELATED TEMP.** |
| **ALLOW. PRES.** | **ALLOW. PRES.** | |
| 40 bar | 19,3 bar | 50 ºC |
| 35 bar | 15,8 bar | 150 ºC |
| 30,4 bar | 12,1 bar | 250 ºC |
| 27,6 bar | 10,2 bar | 300 ºC |

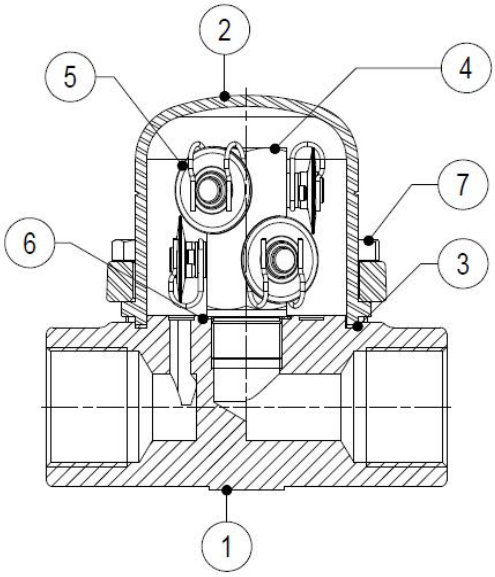
PMO - Max. operating pressure 22 bar
TMO - Max. operating temperature 250 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread, SW and BW.

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***MODEL*** | ***SIZE*** | ***DIFFERENTIAL PRESSURE (bar)*** | | | | | | | | | | | | | |
| | | ***0,2*** | ***0,3*** | ***0,5*** | ***1*** | ***1,5*** | ***2*** | ***3*** | ***4*** | ***6*** | ***8*** | ***10*** | ***13*** | ***15*** | ***20*** | ***22*** |
| **TH36/4** | **40 - 50** | 280 | 480 | 560 | 1020 | 1320 | 1540 | 1820 | 2040 | 2400 | 2680 | 2800 | 2880 | 3000 | 3100 | 3180 |
| **TH36/6** | **40 - 50** | 420 | 720 | 840 | 1530 | 1980 | 2310 | 2730 | 3060 | 3600 | 4020 | 4200 | 4320 | 4500 | 4650 | 4770 |

Capacities shown refer to condensate at 5ºC below saturated steam temperature .
Capacities for cold condensate discharge at 20ºC are two to three times greater.




**TH36/4**



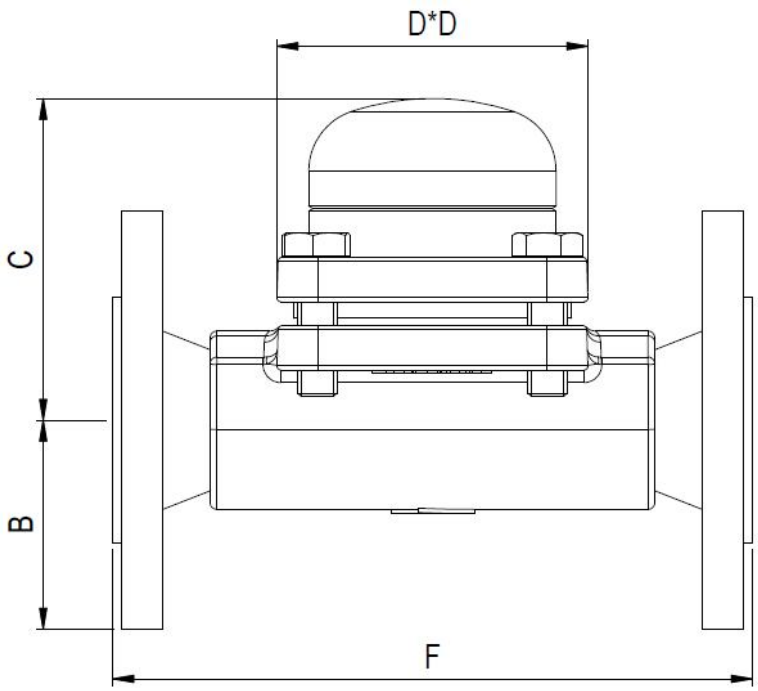

**TH36/6**

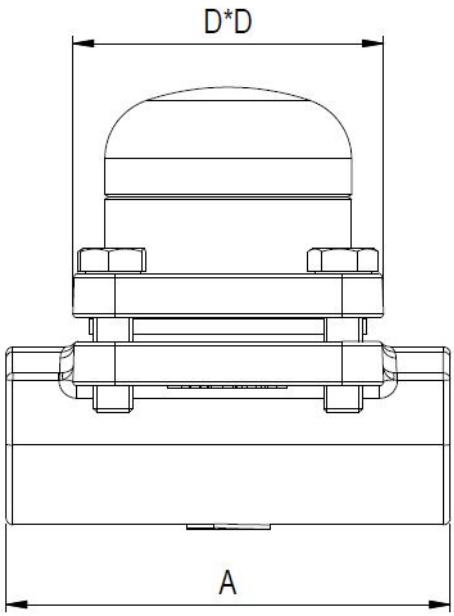
| DIMENSIONS ( mm) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BSP - NPT - SW - BW | | | | | EN 1092-1 PN40 | | | ANSI 150 | | | ANSI 300 | | |
| SIZE DN | A | C | D | WGT. Kgs | B | F * | WGT. Kgs | B | F * | WGT. Kgs | B | F * | WGT. Kgs |
| 11/2" - 40 | 160 | 126 | 112 | 4,6 | 75 | 230 | 9,3 | 64 | 230 | 8,2 | 78 | 230 | 11,2 |
| 2" - 50 | 230 | 126 | 112 | 5,8 | 83 | 230 | 10,2 | 76 | 230 | 10 | 83 | 230 | 11,6 |

* Note: different face to face dimensions on request.

| MATERIALS | | |
|---|---|---|
| POS. Nr. | DESIGNATION | MATERIAL |
| 1 | Body | ASTM A105 / 1.0432 (Equiv.P250GH) |
| 2 | Cover | P265GH / 1.0425 S355 J2G3 / 1.0570 |
| 3 | * Gasket | St.St./Graphite |
| 4 | * Valve seat | AISI304 / 1.4301 |
| 5 | *Thermostats | Stainless steel |
| 6 | * Seat gasket | Copper |
| 7 | Bolts | Steel 8.8 |

* Available spare parts



STEAM EQUIPMENT

UniADCA

# BIMETALLIC STEAM TRAPS AND AIR ELIMINATORS
# BS 32

DESCRIPTION

BS32 series bimetallic steam traps and air eliminators are simple and robust traps, recommended for steam process applications where condensate sensible heat can be recovered, steam tracing lines, drip points, storage tank coils, steam air venting, etc. The use of condensate sensible heat reduces the steam consumption.
Connections are female screwed or flanged.

MAIN FEATURES

Modulating discharge.
Discharges condensate below steam temperature.
Excellent air discharge.
Operates on superheated steam.
Unaffected by water hammer and vibrations.
Built-in strainer.
Uniadca compatible

| | |
|---|---|
| OPTIONS: | Complete stainless steel version |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | BS32 |
| SIZES: | DN ½" to 3/4"; DN15 to DN25. |
| CONNECTIONS: | Female screwed ISO 7/1 Rp (BS21)<br>Flanged EN 1092-1 PN40<br>Flanged ANSI B16.5 150# and 300# |
| INSTALLATION: | Horizontal installation recommended, can be installed in any position.<br>See IMI installation and maintenance instructions. |

| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN40 / ANSI 300 * | FLANGED ANSI 150 ** | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | |
| 40 bar | 19,3 bar | 50 ºC |
| 35 bar | 15,8 bar | 150 ºC |
| 30,4 bar | 12,1 bar | 250 ºC |
| 27,6 bar | 10,2 bar | 300 ºC |

PMO - Max. operating pressure 32 bar
TMO - Max. operating temperature 300 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread, SW and BW.

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE DN | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | |
| | | 0,5 | 1 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 |
| BS 32 | 15 - 25 A | 120 | 180 | 210 | 300 | 340 | 400 | 420 | 450 | 480 | 520 | 560 | 580 | 600 |
| BS 32 | 15 - 25 B | 400 | 550 | 660 | 910 | 1050 | 1200 | 1260 | 1350 | 1440 | 1560 | 1680 | 1740 | 1800 |

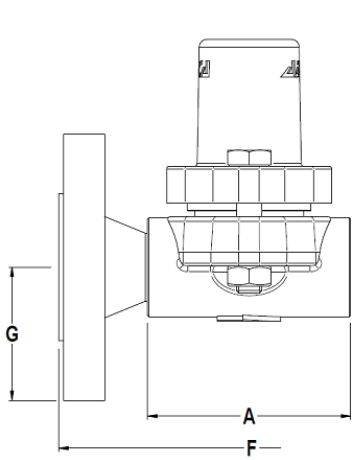
**A** = Condensate discharge at 10ºC below saturation temperature. **B** = Cold water capacity at about 20ºC.

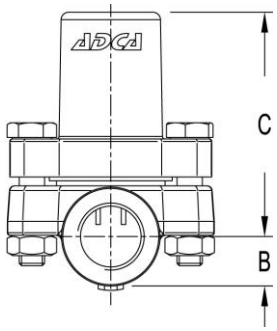
VALSTEAM ADCA

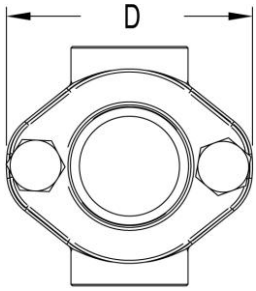
| DIMENSIONS (mm) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flanged, Screwed and SW* | | | | | | EN PN16/40 | | | ANSI 150 | | | ANSI 300 | | |
| SIZE DN | A | B | C | D | WGT. Kgs | F | G | WGT. Kgs | F | G | WGT. Kgs | F | G | WGT. Kgs |
| 1/2"-15 | 80 | 19 | 90 | 80 | 1,6 | 150 | 47,5 | 3,1 | 150 | 44,5 | 2,6 | 150 | 47,5 | 3,1 |
| 3/4"-20 | 80 | 19 | 90 | 80 | 1,6 | 150 | 52,5 | 3,8 | 150 | 49 | 3,1 | 150 | 58,5 | 4,1 |
| **25 | 80 | 19 | 90 | 80 | / | 160 | 57,5 | 4,2 | 160 | 54 | 3,6 | 160 | 62 | 4,7 |

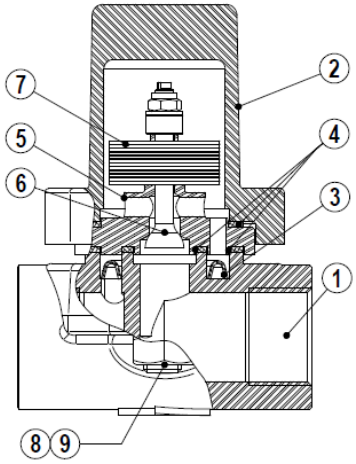
* BW (butt weld) on request.

** Threaded version available only with connector CX40SS



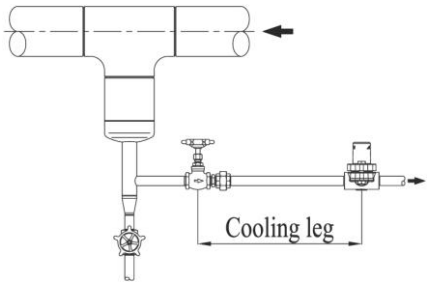



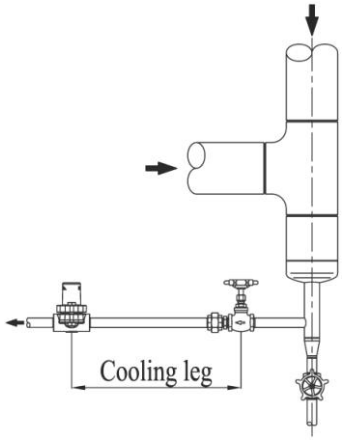

| MATERIALS | | |
|---|---|---|
| POS. Nr. | DESIGNATION | MATERIAL |
| 1 | Body | P250GH / 1.0460 |
| 2 | Cover | CF8 / 1.4308 |
| 3 | * Strainer screen | AISI304 / 1.4301 |
| 4 | * Gasket | St.St./Graphite |
| 5 | * Valve seat | Stainless steel |
| 6 | *Valve plug | Hardened st. Steel |
| 7 | Discs | Bimetal |
| 8 | Bolts | A2-70 |
| 9 | Nuts | A2 |

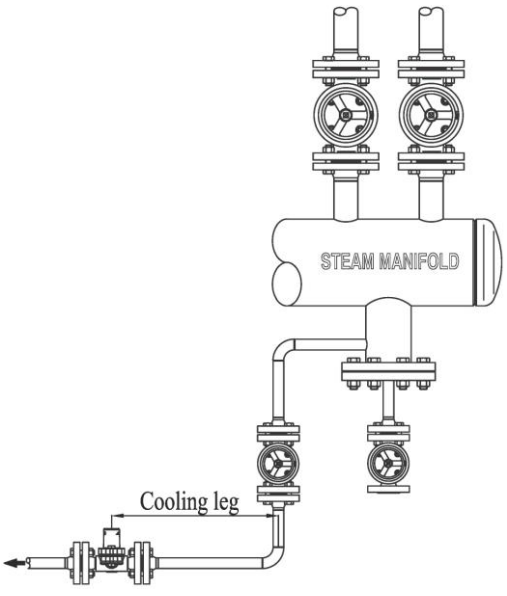
* Available spare parts

**Typical installation**

A cooling leg should be provided before the trap. Typically one meter unllagged pipe is enough but, in case of critical applications or high back pressure (more than 40%), two or three meters can be necessary.



STEAM EQUIPMENT

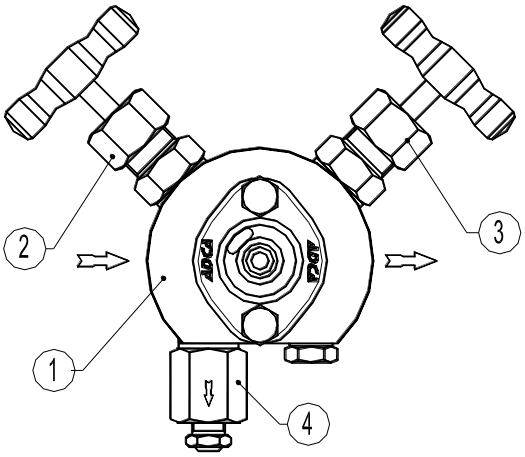
# COMPACT TRAPPING STATION
# UniAdca CTS40
# (DN 1/2” - 1”; DN 15 - 25)

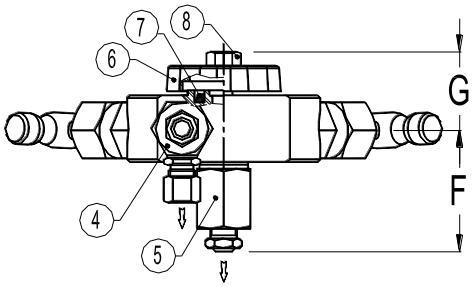
DESCRIPTION

The UniAdca CTS40 is designed as a complete and compact steam trap station used in steam systems where a simplified and economical maintenance program of steam is desired. It has been designed to replace a traditional multi-component trap station system.
Typical installations are drip service on steam lines, tracing and small process equipment.
Two bolt flange connector permits trap replacement in minutes without disturbing piping.
The CTS trapping station fits all UniAdca steam traps.
Connections are female screwed or flanged.

MAIN FEATURES

Remains in-line permanently making replacing of new traps easier and quicker.
UniAdca steam traps can swivel 360º allowing any pipe orientation during installation.
The universal flange allows the trap to be positioned in the correct position, regardless of pipeline configuration.
Built-in strainer.



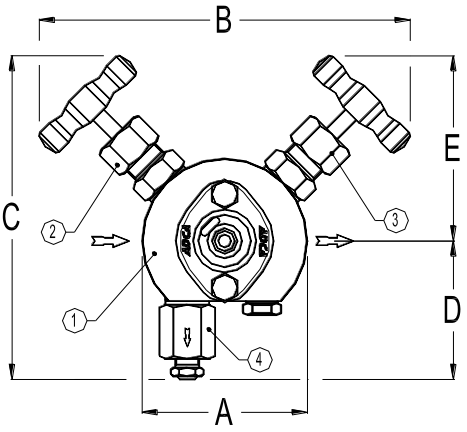

USE: Saturated and superheated steam.

AVAILABLE MODELS:
CTS40S - Forged steel construction
CTS40SS - Stainless steel construction

SIZES:
DN 1/2”, 3/4” and 1”
DN 15, 20 and 25.

CONNECTIONS:
Female screwed ISO 7/1 Rp (BS21).
Flanged EN 1092-1 or ANSI.

INSTALLATION:
Can be installed in any position according to the type of UniAdca steam trap to be used.
See IMI installation and maintenance instructions.




**BODY LIMITING CONDITIONS**

| FLANGED PN40 / ANSI 300 * | FLANGED ANSI 150 ** | RELATED TEMP. |
|---|---|---|
| ALLOW. PRES. | ALLOW. PRES. | |
| 40 bar | 19,3 bar | 50 ºC |
| 35 bar | 15,8 bar | 150 ºC |
| 30,4 bar | 12,1 bar | 250 ºC |
| 27,6 bar | 10,2 bar | 300 ºC |

* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread, SW and BW.

**DIMENSIONS (mm)-Screwed**

| SIZE DN | A | B | C | D | E | F | G | WGT. Kgs |
|---|---|---|---|---|---|---|---|---|
| 1/2" | 110 | 250 | 220 | 95 | 125 | 75 | 50 | 3,9 |
| 3/4" | 110 | 250 | 220 | 95 | 125 | 75 | 50 | 3,9 |
| 1" | 110 | 250 | 220 | 95 | 125 | 79 | 54 | 4,5 |

**MATERIALS**

| POS.Nr. | DESIGNATION | MATERIAL CTS40S | MATERIAL CTS40SS |
|---|---|---|---|
| 1 | Body | P250GH / 1.0460 | AISI316 / 1.4401 |
| 2 | * Upstr.valve | AISI304 / 1.4301 | AISI304 / 1.4301 |
| 3 | * Downst.valve | AISI304 / 1.4301 | AISI304 / 1.4301 |
| 4 | * By-pass valve | AISI304 / 1.4301 | AISI304 / 1.4301 |
| 5 | * Dep.valve | AISI304 / 1.4301 | AISI316 / 1.4401 |
| 6 | Flange | P250GH / 1.0460 | AISI316 / 1.4401 |
| 7 | Strainer | AISI304 / 1.4301 | AISI304 / 1.4301 |
| 8 | Bolts | A4-80 | A4-80 |

* Available spare parts

VALSTEAM ADCA

# FLOAT AND THERMOSTATIC STEAM TRAPS
# FLT16
# (DN 1/2”- 3/4”; DN15 - DN20)

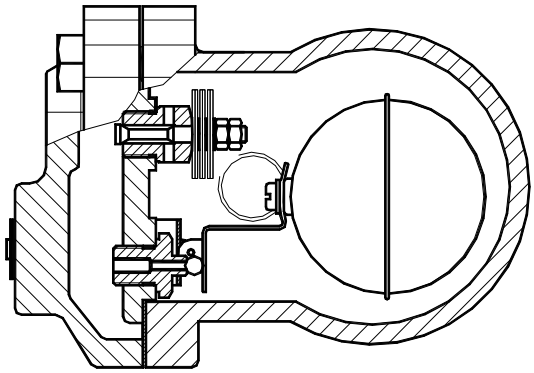
DESCRIPTION

FLT16 float and thermostatic (integral air vent) steam traps series are designed for all types of low and high pressure steam heating and process equipment.
Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.
Connections are female screwed or flanged for horizontal or vertical installation.

MAIN FEATURES

Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge (by thermostatic air vent).

| | |
|---|---|
| OPTIONS: | SLR – steam lock release<br>Equalizing plug and vent connection. |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | FLT16-4,5 , 10 and 14 |
| SIZES: | DN ½” to DN 3/4” – DN15 to DN20 |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21)<br>Flanged EN 1092-2 PN16 or ANSI |
| INSTALLATION: | Standard horizontal installation –<br>From right to left FLT16 (R-L) |



Upon request:
-horizontal installation with the flow from left to right (L-R)
-vertical installation with the flow from top to bottom (V)

MAX. DIFFERENTIAL PRESSURE
FLT16-4,5 : 4,5 bar
FLT16-10 : 10 bar
FLT16-14: 14 bar

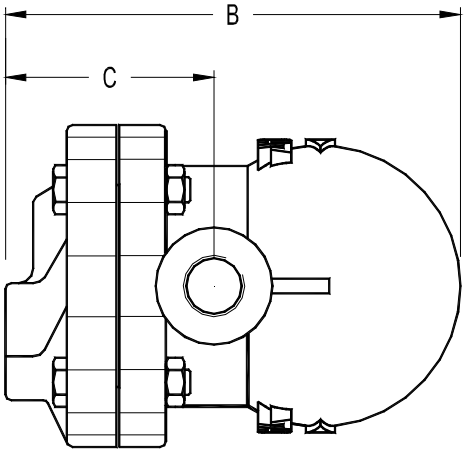
| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN16* ALLOW. PRES. | FLANGED ANSI 150 ** ALLOW. PRES. | RELATED TEMP. |
| 16 bar | 15,4 bar | 100 ºC |
| 15,5 bar | 14,6 bar | 150 ºC |
| 14,7 bar | 13,8 bar | 200 ºC |
| 13,9 bar | 12,1 bar | 250 ºC |

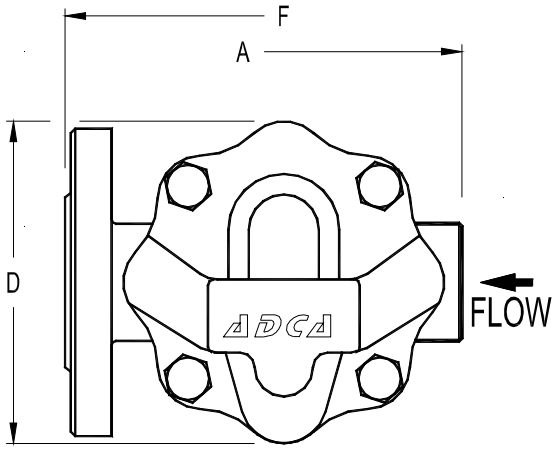
PMO - Max. operating pressure 14 bar
TMO - Max. operating temperature 198 ºC
* According to EN1092-2:2000 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN16 or below, depending on the type of connection adopted. Rating PN16 for thread.

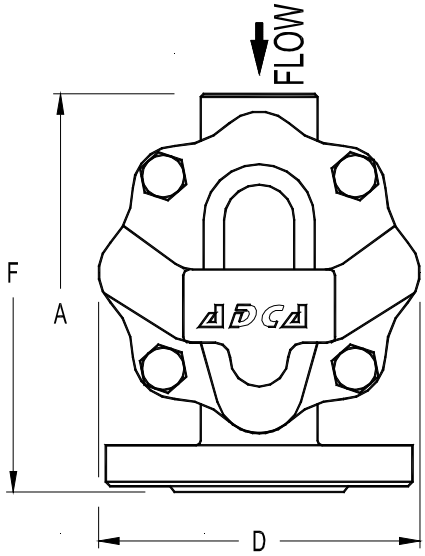
| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | |
| | | 0,5 | 1 | 1,5 | 2 | 3 | 4,5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 |
| FLT16-4,5 | 15 - 20 | 200 | 280 | 320 | 360 | 400 | 495 | | | | | | | |
| FLT16-10 | 15 - 20 | 110 | 140 | 175 | 190 | 230 | 280 | 300 | 330 | 350 | 390 | 405 | | |
| FLT16-14 | 15 - 20 | 70 | 100 | 120 | 140 | 155 | 190 | 210 | 220 | 225 | 230 | 260 | 280 | 300 |



Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.332 E 06.089



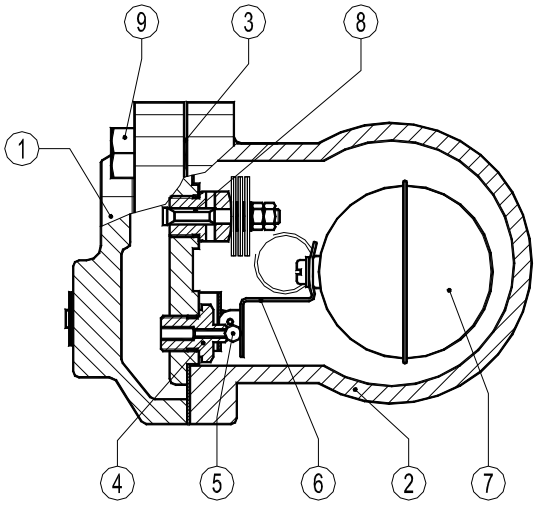




| DIMENSIONS (mm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Screwed | | | | | | EN PN16 | | ANSI 150 | |
| *SIZE DN* | *A* | *B* | *C* | *D* | *WGT. Kgs* | *F* | *WGT. Kgs* | *F* | *WGT. Kgs* |
| 15-1/2" | 122 | 150 | 68 | 108 | 3,5 | 150 | 4,4 | 150 | 3,9 |
| 20-3/4" | 122 | 150 | 68 | 108 | 3,5 | 150 | 4,9 | 150 | 4,1 |

| MATERIALS | | |
|---|---|---|
| *POS.Nr.* | *DESIGNATION* | *MATERIAL* |
| 1 | Body | GJS-400-15 / 0.7040 |
| 2 | Cover | GJS-400-15 / 0.7040 |
| 3 | *Gasket | Stainless st. / Graphite |
| 4 | *Seat | AISI 410 / 1.4006 |
| 5 | *Valve | AISI 410 / 1.4006 |
| 6 | *Lever | AISI 304 / 1.4301 |
| 7 | *Float | AISI 304 / 1.4301 |
| 8 | *Air vent | Stainless st. (Bimetallic) |
| 9 | Bolts | Steel 8.8 |

*Available spare parts.



# FLOAT AND THERMOSTATIC STEAM TRAPS
# FLT17LC
# (1/2”- 3/4”; DN15 - 20)

DESCRIPTION

FLT17LC float and thermostatic (integral air vent) steam traps series are designed for all types of low and high pressure steam heating and process equipment.
Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.
Connections are female screwed or flanged for horizontal or vertical installation.

MAIN FEATURES

Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge (by thermostatic air vent).

| | |
|---|---|
| OPTIONS: | SLR – steam lock release<br>Equalizing plug or vent connection |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | FLT17LC-4,5 , 10 and 14 |
| SIZES: | DN ½” to DN3/4” – DN15 to DN20 |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21)<br>Flanged EN 1092-2 PN16 or ANSI |
| INSTALLATION: | Standard horizontal installation –<br>From right to left FLT17LC (R-L) |

Upon request:
-horizontal installation with the flow from left to right (L-R)
-vertical installation with the flow from top to bottom (V)

MAX. DIFFERENTIAL PRESSURE

FLT17LC-4,5 : 4,5 bar
FLT17LC-10 : 10 bar
FLT17LC-14: 14 bar

| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN16* | FLANGED ANSI 150 ** | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | |
| 16 bar | 15,4 bar | 100 °C |
| 15,5 bar | 14,6 bar | 150 °C |
| 14,7 bar | 13,8 bar | 200 °C |
| 13,9 bar | 12,1 bar | 250 °C |

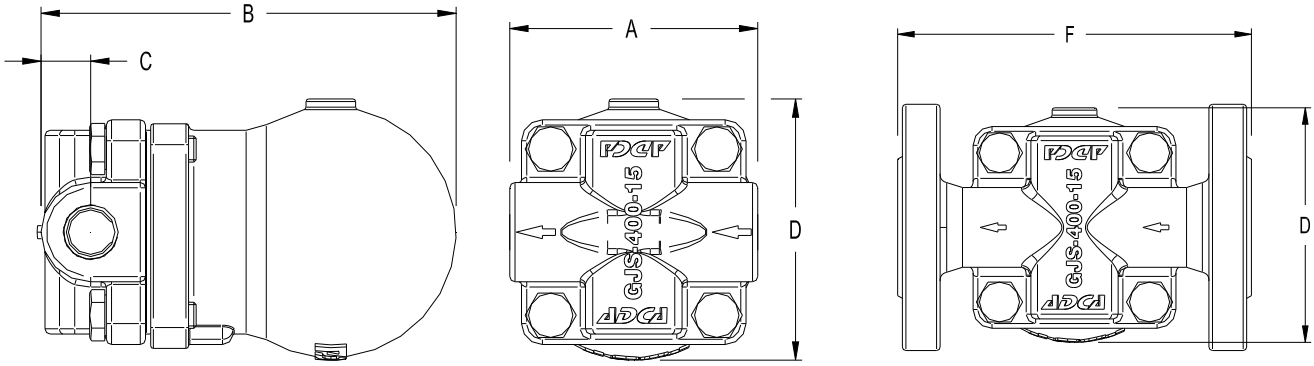
PMO - Max. operating pressure 14 bar
TMO - Max. operating temperature 198 °C
* According to EN1092-2:2000 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN16 or below, depending on the type of connection adopted. Rating PN16 for thread.

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | | | | |
| | | 0,1 | 0,3 | 0,5 | 0,7 | 1 | 1,5 | 2 | 3 | 4,5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 |
| FLT17LC-4,5 | 15 - 20 | 120 | 180 | 200 | 240 | 280 | 320 | 360 | 400 | 495 | | | | | | | |
| FLT17LC-10 | 15 - 20 | 55 | 90 | 110 | 130 | 140 | 175 | 190 | 230 | 280 | 300 | 330 | 350 | 390 | 405 | | |
| FLT17LC-14 | 15 - 20 | 40 | 60 | 70 | 90 | 100 | 120 | 140 | 155 | 190 | 210 | 220 | 225 | 230 | 260 | 280 | 300 |

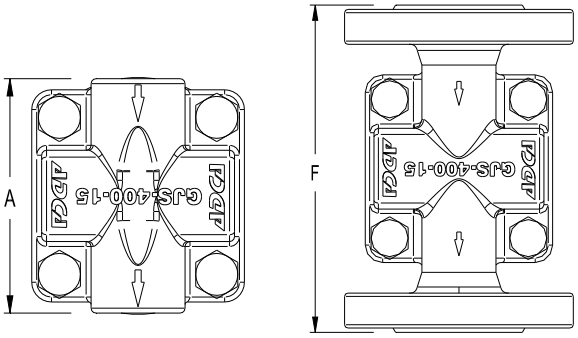




Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.334 E 06.07



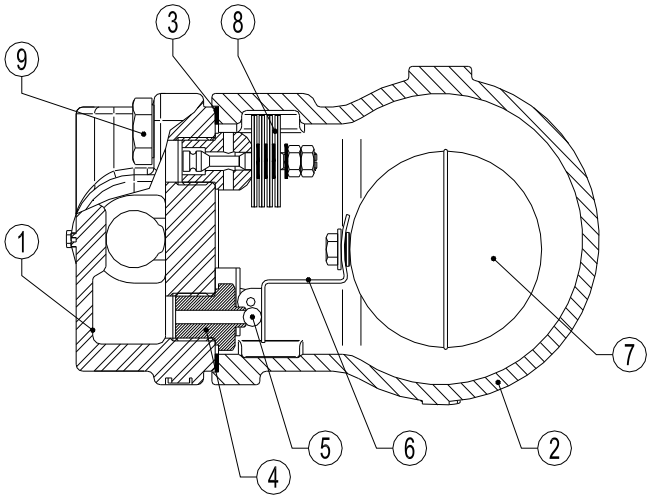

| DIMENSIONS (mm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Screwed | | | | | | EN PN16 | | ANSI 150 | |
| SIZE DN | A | B | C | D | WGT. Kgs | F | WGT. Kgs | F | WGT. Kgs |
| 15-1/2" | 95 | 160 | 23 | 100 | 3,5 | 150 | 5 | 150 | 4,5 |
| 20-3/4" | 95 | 160 | 23 | 100 | 3,5 | 150 | 5,5 | 150 | 4,7 |




**Vertical Installation (V)**

| MATERIALS | | |
|---|---|---|
| POS.Nr. | DESIGNATION | MATERIAL |
| 1 | Body | GJS-400-15 / 0.7040 |
| 2 | Cover | GJS-400-15 / 0.7040 |
| 3 | *Gasket | Stainless st. / Graphite |
| 4 | *Seat | AISI 410 / 1.4006 |
| 5 | *Valve | AISI 410 / 1.4006 |
| 6 | *Lever | AISI 304 / 1.4301 |
| 7 | *Float | AISI 304 / 1.4301 |
| 8 | *Air vent | Stainless st. (Bimetallic) |
| 9 | Bolts | Steel 8.8 |

*Available spare parts.



STEAM EQUIPMENT

# FLOAT AND THERMOSTATIC STEAM TRAPS
# FLT17
# (DN 1/2” to 1”; DN15 to DN25)

DESCRIPTION

FLT17 float and thermostatic (integral air vent) steam traps series are designed for all types of low and high pressure steam heating and process equipment.

Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.

Connections are female screwed or flanged for horizontal or vertical installation.


MAIN FEATURES

Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge (by thermostatic air vent).

| | |
|---|---|
| OPTIONS: | SLR – steam lock release<br>Equalizing plug or vent connection<br>Internal strainer |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | FLT17-4,5 , 10 and 14 |
| SIZES: | DN ½” to DN1” – DN15 to DN25 |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21)<br>Flanged EN 1092-1/-2 PN16 or ANSI |
| INSTALLATION: | Standard horizontal installation –<br>From right to left FLT17 (R-L) |

Upon request:
-horizontal installation with the flow from left to right (L-R)
-vertical installation with the flow from top to bottom (V)

MAX. DIFFERENTIAL PRESSURE

FLT17-4,5 : 4,5 bar
FLT17-10 : 10 bar
FLT17-14: 14 bar

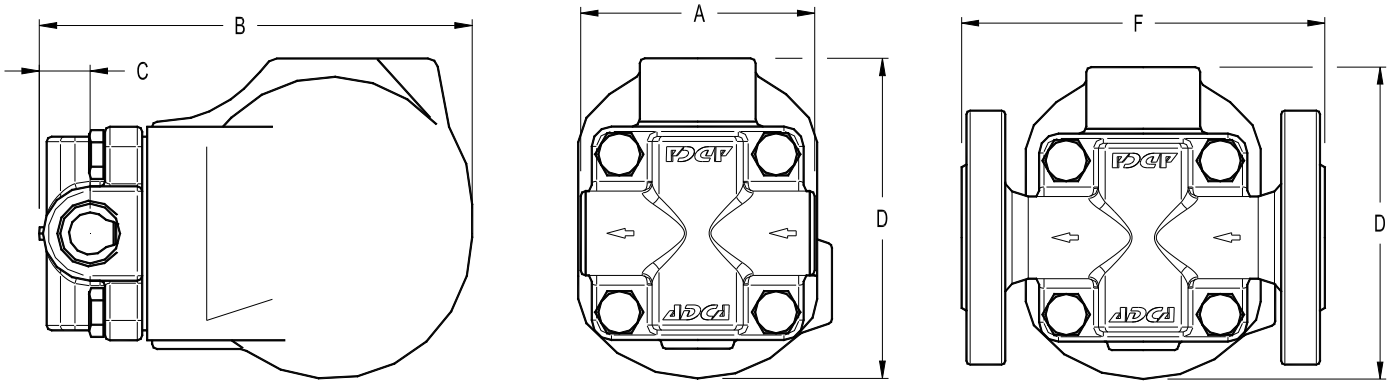
**BODY LIMITING CONDITIONS**

| FLANGED PN16* ALLOW. PRES. | FLANGED ANSI 150 ** ALLOW. PRES. | RELATED TEMP. |
|---|---|---|
| 16 bar | 15,4 bar | 100 °C |
| 15,5 bar | 14,6 bar | 150 °C |
| 14,7 bar | 13,8 bar | 200 °C |
| 13,9 bar | 12,1 bar | 250 °C |

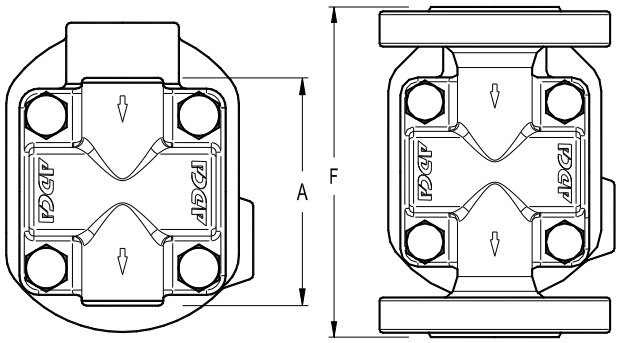
PMO - Max. operating pressure 14 bar
TMO - Max. operating temperature 198 °C
* According to EN1092-2:2000 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN16 or below, depending on the type of connection adopted. Rating PN16 for thread.

**FLOW RATE CAPACITY IN Kgs/h**

| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0,1 | 0,3 | 0,5 | 0,7 | 1 | 1,5 | 2 | 3 | 4,5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 |
| FLT17-4,5 | 15 - 25 | 165 | 205 | 230 | 280 | 330 | 400 | 440 | 535 | 630 | | | | | | | |
| FLT17-10 | 15 - 25 | 110 | 130 | 150 | 170 | 200 | 250 | 280 | 340 | 400 | 460 | 495 | 520 | 550 | 595 | | |
| FLT17-14 | 15 - 25 | 80 | 100 | 120 | 140 | 150 | 190 | 220 | 260 | 320 | 380 | 400 | 425 | 440 | 480 | 510 | 550 |



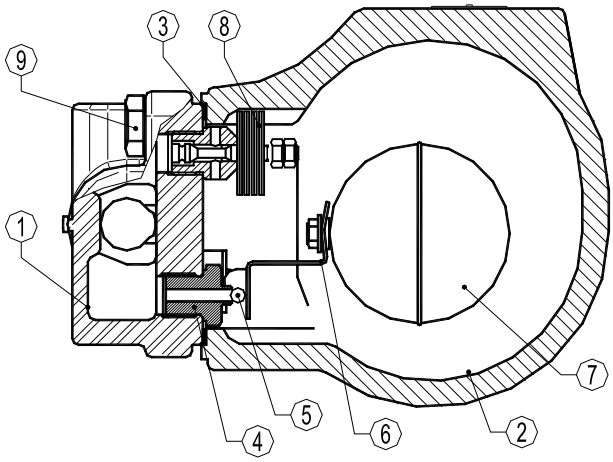

| DIMENSIONS (mm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Screwed | | | | | | EN PN16 | | ANSI 150 | |
| SIZE DN | A | B | C | D | WGT. Kgs | F | WGT. Kgs | F | WGT. Kgs |
| 15-1/2" | 95 | 178 | 23 | 128 | 5,2 | 150 | 6,7 | 150 | 6,2 |
| 20-3/4" | 95 | 178 | 23 | 128 | 5,2 | 150 | 7,2 | 150 | 6,4 |
| 25-1" | 95 | 178 | 23 | 128 | 5,2 | 160 | 7,7 | 160 | 7,3 |




**Vertical Installation (V)**

| MATERIALS | | |
|---|---|---|
| POS.Nr. | DESIGNATION | MATERIAL |
| 1 | Body | GJS-400-15 / 0.7040 |
| 2 | Cover | GJS-400-15 / 0.7040 |
| 3 | *Gasket | Stainless st. / Graphite |
| 4 | *Seat | AISI 410 / 1.4006 |
| 5 | *Valve | AISI 440C / 1.4125 |
| 6 | *Lever | AISI 304 / 1.4301 |
| 7 | *Float | AISI 304 / 1.4301 |
| 8 | *Air vent | Stainless st. (Bimetallic) |
| 9 | Bolts | Steel 8.8 |

*Available spare parts.



# FLOAT AND THERMOSTATIC STEAM TRAPS
# FLT 17
# (DN 1"HC – DN 25HC)

DESCRIPTION
FLT17 float and thermostatic (integral air vent) steam traps series are designed for all types of low and high pressure steam heating and process equipment.
Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.
Connections are female screwed or flanged for horizontal or vertical installation.

MAIN FEATURES
Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge (by thermostatic air vent).

| | |
|---|---|
| OPTIONS: | SLR – steam lock release<br>Equalizing plug or vent connection<br>Internal strainer |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | FLT17-4,5 , 10 and 14 |
| SIZES: | DN 1"HC – DN25HC |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21)<br>Flanged EN 1092-2 PN16 or ANSI |
| INSTALLATION: | Standard horizontal installation –<br>From left to right FLT17 (L-R) |

Upon request:
-horizontal installation with the flow from right to left (R-L)
-vertical installation with the flow from top to bottom (V)

MAX. DIFFERENTIAL PRESSURE
FLT17HC-4,5 : 4,5 bar
FLT17HC-10 : 10 bar
FLT17HC-14: 14 bar

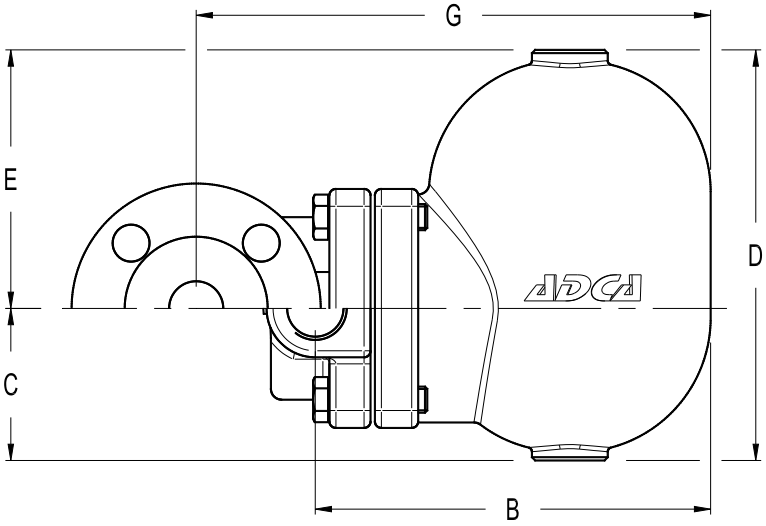
| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN16* | FLANGED ANSI 150 ** | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | |
| 16 bar | 15,4 bar | 100 °C |
| 15,5 bar | 14,6 bar | 150 °C |
| 14,7 bar | 13,8 bar | 200 °C |
| 13,9 bar | 12,1 bar | 250 °C |

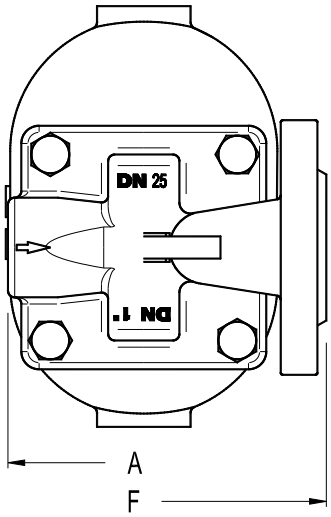
PMO - Max. operating pressure 14 bar
TMO - Max. operating temperature 198 °C
* According to EN1092-2:2000 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN16 or below, depending on the type of connection adopted. Rating PN16 for thread.

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | | | | |
| | | 0,1 | 0,3 | 0,5 | 0,7 | 1 | 1,5 | 2 | 3 | 4,5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 |
| FLT17-4,5 | 1"-25HC | 420 | 690 | 900 | 1070 | 1250 | 1450 | 1700 | 2010 | 2400 | | | | | | | |
| FLT17-10 | 1"-25HC | 360 | 405 | 450 | 530 | 620 | 790 | 880 | 1100 | 1250 | 1500 | 1600 | 1700 | 1750 | 1800 | | |
| FLT17-14 | 1"-25HC | 270 | 310 | 340 | 395 | 435 | 530 | 600 | 610 | 850 | 990 | 1100 | 1190 | 1240 | 1300 | 1350 | 1380 |



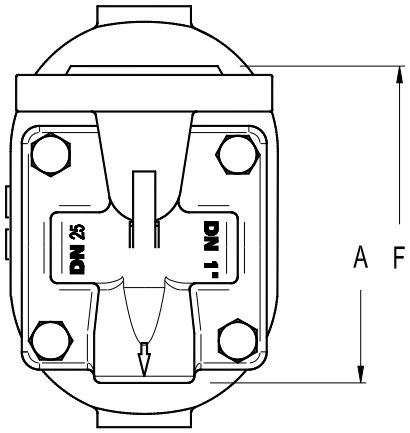
Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.345 E 07.08




| DIMENSIONS (mm) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Screwed | | | | | | | EN PN16 | | | ANSI 150 | | |
| SIZE DN | A | B | C | D | E | WGT. Kgs | F | G | WGT. Kgs | F | G | WGT. Kgs |
| 25-1" | 120 | 195 | 80 | 190 | 110 | 9 | 160 | 248 | 11,3 | 160 | 248 | 10,9 |

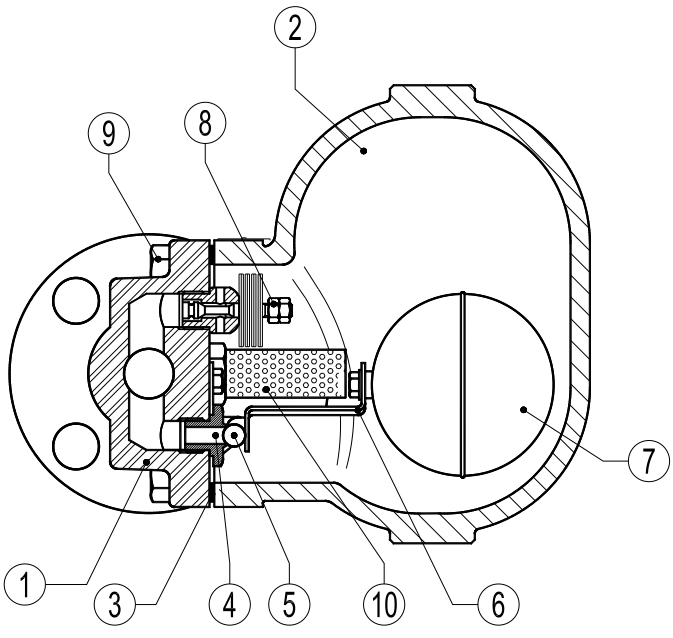
On request can be supplied an alternative version DN 32 - 11/4" with different lengths: A = 190 and F = 230 mm




**Vertical Installation (V)**

| MATERIALS | | |
|---|---|---|
| POS.Nr. | DESIGNATION | MATERIAL |
| 1 | Body | GJS-400-15 / 0.7040 |
| 2 | Cover | GJS-400-15 / 0.7040 |
| 3 | *Gasket | Stainless st. / Graphite |
| 4 | *Seat | AISI 410 / 1.4006 |
| 5 | *Valve | AISI 440C / 1.4125 |
| 6 | *Lever | AISI 304 / 1.4301 |
| 7 | *Float | AISI 304 / 1.4301 |
| 8 | *Air vent | Stainless st. (Bimetallic) |
| 9 | Bolts | Steel 8.8 |
| 10 | **Strainer | AISI 304 / 1.4301 |

*Available spare parts ; ** Optional



# FLOAT AND THERMOSTATIC STEAM TRAPS
# FLT17
# (DN 11/2” – 2”; DN 40 – 50)

DESCRIPTION
FLT17 float and thermostatic (integral air vent) steam traps series are designed for all types of low and high pressure steam heating and process equipment.
Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.
Connections are female screwed or flanged for horizontal or vertical installation.

MAIN FEATURES
Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge (by thermostatic air vent).

OPTIONS: SLR – steam lock release
Equalizing plug or vent connection

USE: Saturated and superheated steam.

AVAILABLE MODELS: FLT17-4,5 , 10 and 14

SIZES: DN11/2” - DN2” ; DN40 – DN50

CONNECTIONS: Female screwed ISO7/1 Rp (BS21)
Flanged EN 1092-2 PN16 or ANSI

INSTALLATION: Standard horizontal installation –
From right to left FLT17 (R-L)

Upon request:
-horizontal installation with the flow from left to right (L-R)
-vertical installation with the flow from top to bottom (V)

MAX. DIFFERENTIAL PRESSURE
FLT17-4,5 : 4,5 bar
FLT17-10 : 10 bar
FLT17-14: 14 bar

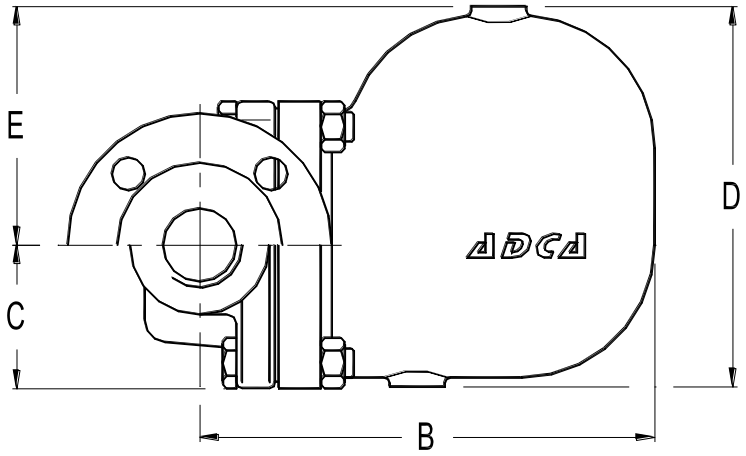
| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN16* | FLANGED ANSI 150 ** | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | |
| 16 bar | 15,4 bar | 100 ºC |
| 15,5 bar | 14,6 bar | 150 ºC |
| 14,7 bar | 13,8 bar | 200 ºC |
| 13,9 bar | 12,1 bar | 250 ºC |

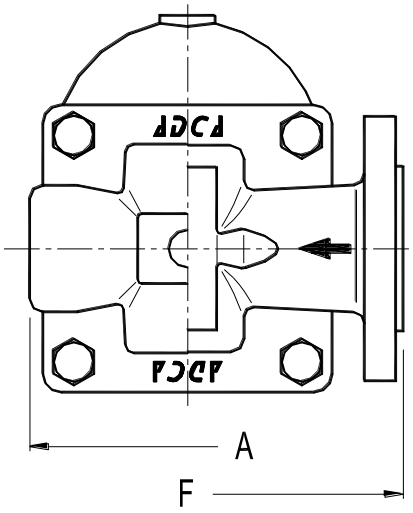
PMO - Max. operating pressure 14 bar
TMO - Max. operating temperature 198 ºC
* According to EN1092-2:2000 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN16 or below, depending on the type of connection adopted. Rating PN16 for thread.

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | |
| | | 0,1 | 0,3 | 0,5 | 0,7 | 1 | 1,5 | 2 | 4,5 | 7 | 10 | 12 | 14 |
| FLT17-4,5 | 40-50 | 1050 | 1750 | 2400 | 2700 | 3400 | 3900 | 4500 | 7300 | | | | |
| FLT17-10 | 40-50 | 650 | 1100 | 1500 | 1700 | 2000 | 2600 | 3000 | 4000 | 5400 | 6200 | | |
| FLT17-14 | 40-50 | 430 | 720 | 950 | 1100 | 1300 | 1600 | 1800 | 2600 | 3250 | 3900 | 4210 | 4950 |

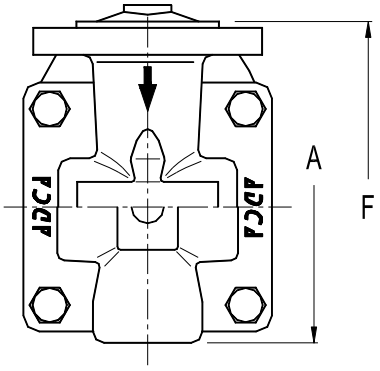


Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.355 E 07.08



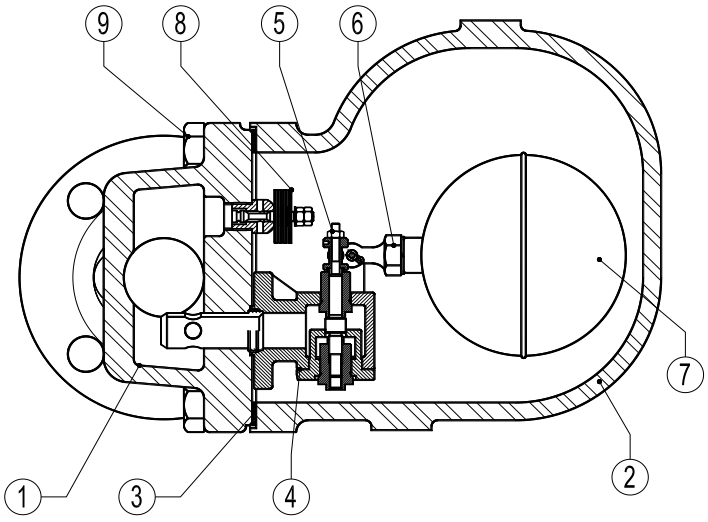

| DIMENSIONS (mm) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Screwed | | | | | | | EN PN16 | | | ANSI 150 | | |
| SIZE DN | A | B | C | D | E | WGT. Kgs | F | B | WGT. Kgs | F | B | WGT. Kgs |
| 40-11/2" | 210 | 248 | 79 | 208 | 131 | 16,9 | 230 | 248 | 20,3 | 230 | 248 | 19,1 |
| 50-2" | 210 | 248 | 79 | 208 | 131 | 17,5 | 230 | 248 | 20,7 | 230 | 248 | 20,5 |




**Vertical Installation (V)**

| MATERIALS | | |
|---|---|---|
| POS.Nr. | DESIGNATION | MATERIAL |
| 1 | Body | GJS-400-15 / 0.7040 |
| 2 | Cover | GJS-400-15 / 0.7040 |
| 3 | *Gasket | Stainless st. / Graphite |
| 4 | *Seat | CF8 / 1.4308 |
| 5 | *Valve | AISI 420 / 1.4021 |
| 6 | *Lever | AISI 304 / 1.4301 |
| 7 | *Float | AISI 304 / 1.4301 |
| 8 | *Air vent | Stainless st. (Bimetallic) |
| 9 | Bolts | Steel 8.8 |

*Available spare parts.



# FLOAT AND THERMOSTATIC STEAM TRAPS
# FLT17
# (DN 2" HC; DN 50 HC)

DESCRIPTION

FLT17 float and thermostatic (integral air vent) steam traps series are designed for all types of low and high pressure steam heating and process equipment.
Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.
Connections are female screwed or flanged for horizontal or vertical installation.

MAIN FEATURES

Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge (by thermostatic air vent).

| | |
|---|---|
| OPTIONS: | SLR – steam lock release |
| | Equalizing plug or vent connection |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | FLT17-4,5 , 10 and 14 |
| SIZES: | DN2" HC ; DN50 HC |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21) |
| | Flanged EN 1092-2 PN16 or ANSI |
| INSTALLATION: | Standard horizontal installation – |
| | From right to left FLT17 (R-L) |

Upon request:
-horizontal installation with the flow from left to right (L-R)
-vertical installation with the flow from top to bottom (V)

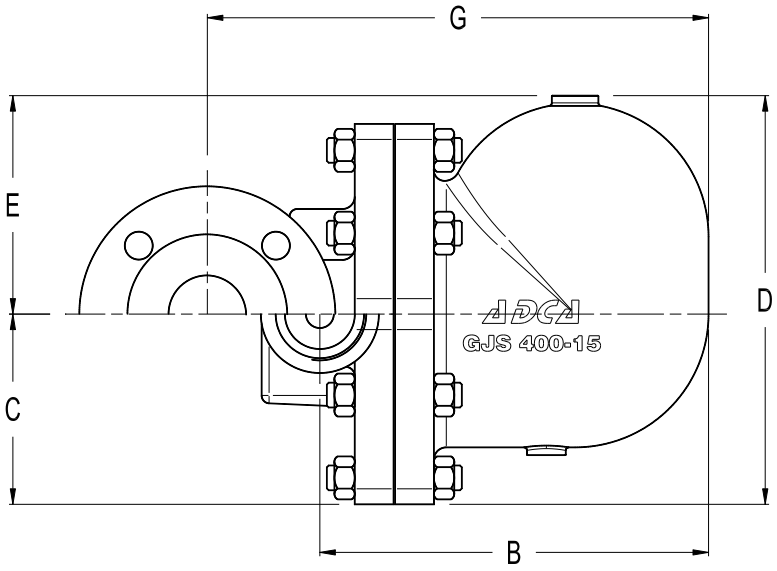
MAX. DIFFERENTIAL PRESSURE
FLT17HC-4,5 : 4,5 bar
FLT17HC-10 : 10 bar
FLT17HC-14: 14 bar

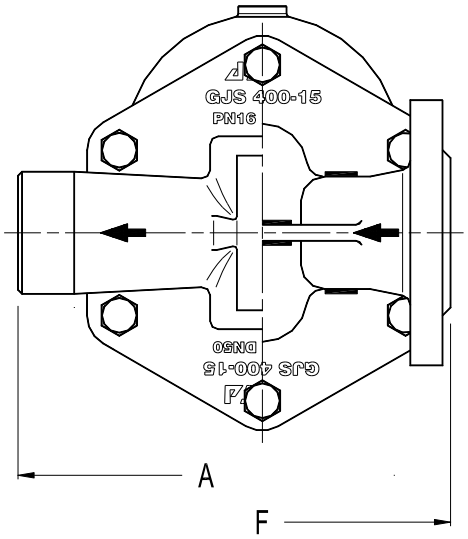
| CE MARKING (PED - European Directive 97/23/EC) | |
|---|---|
| **PN 16** | **Category** |
| DN 50 HC | 1 (CE Marked) |

| BODY LIMITING CONDITIONS | | |
|---|---|---|
| **FLANGED PN16*** | **FLANGED ANSI 150 **** | **RELATED TEMP.** |
| **ALLOW. PRES.** | **ALLOW. PRES.** | |
| 16 bar | 15,4 bar | 100 ºC |
| 15,5 bar | 14,6 bar | 150 ºC |
| 14,7 bar | 13,8 bar | 200 ºC |
| 13,9 bar | 12,1 bar | 250 ºC |

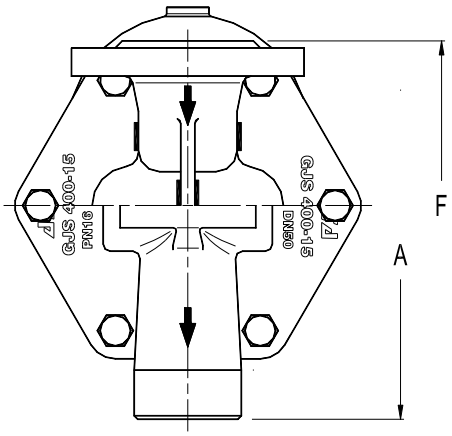
PMO - Max. operating pressure 14 bar
TMO - Max. operating temperature 198 ºC
* According to EN1092-2:2000 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN16 or below, depending on the type of connection adopted. Rating PN16 for thread.

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***MODEL*** | ***SIZE*** | ***DIFFERENTIAL PRESSURE (bar)*** | | | | | | | | | | | |
| | | ***0,1*** | ***0,3*** | ***0,5*** | ***0,7*** | ***1*** | ***1,5*** | ***2*** | ***4,5*** | ***7*** | ***10*** | ***12*** | ***14*** |
| **FLT17-4,5** | **50HC** | 2400 | 5900 | 7550 | 9050 | 11000 | 14000 | 15500 | 22500 | | | | |
| **FLT17-10** | **50HC** | 1800 | 3000 | 3900 | 4450 | 5000 | 6100 | 7100 | 10000 | 13750 | 16000 | | |
| **FLT17-14** | **50HC** | 900 | 1500 | 1900 | 2300 | 2700 | 3100 | 3600 | 5000 | 6900 | 8100 | 9000 | 9800 |



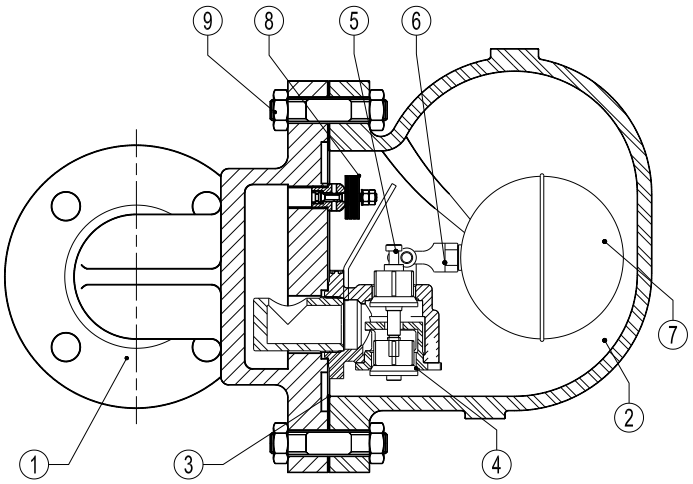

| DIMENSIONS (mm) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Screwed | | | | | | | EN PN16 | | | ANSI 150 | | |
| SIZE DN | A | B | C | D | E | WGT. Kgs | F | G | WGT. Kgs | F | G | WGT. Kgs |
| 50-2" | 300 | 250 | 126 | 266 | 140 | 21,6 | 230 | 325 | 27,8 | 230 | 325 | 27,6 |




**Vertical Installation (V)**

| MATERIALS | | |
|---|---|---|
| POS.Nr. | DESIGNATION | MATERIAL |
| 1 | Body | GJS-400-15 / 0.7040 |
| 2 | Cover | GJS-400-15 / 0.7040 |
| 3 | *Gasket | Stainless st. / Graphite |
| 4 | *Seat | CF8 / 1.4308 |
| 5 | *Valve | AISI 420 / 1.4021 |
| 6 | *Lever | AISI 304 / 1.4301 |
| 7 | *Float | AISI 304 / 1.4301 |
| 8 | *Air vent | Stainless st. (Bimetallic) |
| 9 | Bolts | Steel 8.8 |

*Available spare parts.



# FLOAT AND THERMOSTATIC STEAM TRAPS
# FLT32
# (Cast steel DN1/2" - 1"; DN15 - 25)


DESCRIPTION

FLT32 float and thermostatic (integral air vent) steam traps series are designed for all types of low and high pressure steam heating and process equipment.
Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.
Connections are female screwed or flanged for horizontal or vertical installation.

MAIN FEATURES

Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge (by thermostatic air vent).

| | |
|---|---|
| OPTIONS: | SLR – steam lock release |
| | Equalizing plug or vent connection |
| | Internal strainer |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | FLT32-4,5, 10, 14 and 21. |
| SIZES: | DN ½" - 1" – DN15 - 25 |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21) |
| | Flanged EN 1092-1 PN40 or ANSI |
| INSTALLATION: | Standard horizontal installation – |
| | From right to left FLT32 (R-L) |

Upon request:
-horizontal installation with the flow from left to right (L-R)
-vertical installation with the flow from top to bottom (V)

MAX. DIFFERENTIAL PRESSURE

FLT32-4,5 : 4,5 bar
FLT32-10 : 10 bar
FLT32-14: 14 bar
FLT32-21: 21 bar

| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN40 / ANSI 300* | FLANGED ANSI 150 ** | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | |
| 37,1 bar | 15,4 bar | 100 ºC |
| 33,3 bar | 13,8 bar | 200 ºC |
| 30,4 bar | 12,1 bar | 250 ºC |
| 27,6 bar | 10,2 bar | 300 ºC |

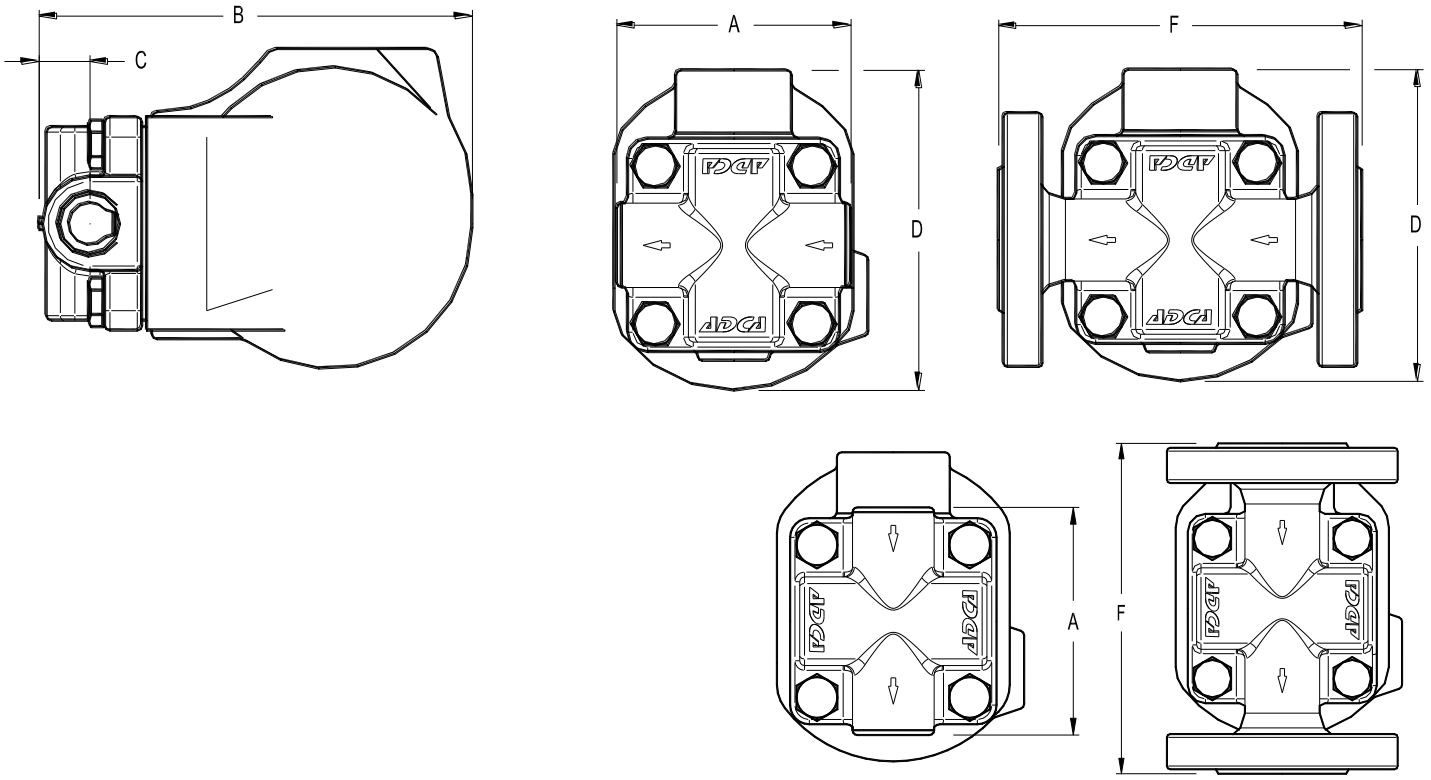
PMO - Max. operating pressure 32 bar
TMO - Max. operating temperature 250 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread,SW and BW.

**FLOW RATE CAPACITY IN Kgs/h**

| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0,5 | 1 | 1,5 | 2 | 3 | 4,5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 16 | 21 |
| FLT32-4,5 | 15- 25 | 230 | 330 | 400 | 440 | 535 | 630 | | | | | | | | | |
| FLT32-10 | 15- 25 | 150 | 200 | 250 | 280 | 340 | 400 | 460 | 495 | 520 | 550 | 595 | | | | |
| FLT32-14 | 15- 25 | 120 | 150 | 190 | 220 | 260 | 320 | 380 | 400 | 425 | 440 | 480 | 510 | 550 | | |
| FLT32-21 | 15- 25 | 60 | 80 | 90 | 115 | 135 | 160 | 190 | 200 | 220 | 230 | 240 | 260 | 270 | 290 | 300 |

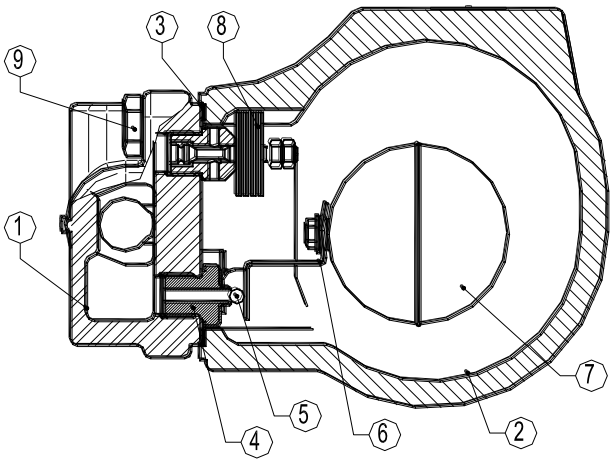


Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.381 E 07.08




**Vertical Installation (V)**

| DIMENSIONS (mm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Screwed | | | | | | EN PN16/40 | | ANSI 150 | | ANSI 300 | |
| *SIZE DN* | *A* | *B* | *C* | *D* | *WGT. Kgs* | *F* | *WGT. Kgs* | *F* | *WGT. Kgs* | *F* | *WGT. Kgs* |
| 15-1/2" | 95 | 178 | 23 | 128 | 5,2 | 150 | 6,7 | 150 | 6,2 | 150 | 7 |
| 20-3/4" | 95 | 178 | 23 | 128 | 5,2 | 150 | 7,4 | 150 | 6,6 | 150 | 8,2 |
| 25-1" | 95 | 178 | 23 | 128 | 5,2 | 160 | 7,8 | 160 | 7,4 | 160 | 9 |




| MATERIALS | | |
|---|---|---|
| *POS.Nr.* | *DESIGNATION* | *MATERIAL* |
| 1 | Body | GP240GH / 1.0619 |
| 2 | Cover | GP240GH / 1.0619 |
| 3 | *Gasket | Stainless st. / Graphite |
| 4 | *Seat | AISI 410 / 1.4006 |
| 5 | *Valve | AISI 440C / 1.4125 |
| 6 | *Lever | AISI 304 / 1.4301 |
| 7 | *Float | AISI 304 / 1.4301 |
| 8 | *Air vent | Stainless st. (Bimetallic) |
| 9 | Bolts | Steel 8.8 |

*Available spare parts.

# FLOAT AND THERMOSTATIC STEAM TRAPS
# FLT 32
# (Cast steel DN 1"HC – DN 25HC)

DESCRIPTION

FLT32 float and thermostatic (integral air vent) steam traps series are designed for all types of low and high pressure steam heating and process equipment.

Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.

Connections are female screwed or flanged for horizontal or vertical installation.

MAIN FEATURES

Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge (by thermostatic air vent).

| | |
|---|---|
| OPTIONS: | SLR – steam lock release<br>Equalizing plug or vent connection<br>Internal strainer |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | FLT32-4,5 , 10 , 14 and 21 |
| SIZES: | DN 1"HC – DN25HC |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21)<br>Flanged EN 1092-1 PN40 or ANSI |
| INSTALLATION: | Standard horizontal installation –<br>From left to right FLT32HC (L-R) |

Upon request:
-horizontal installation with the flow from right to left (R-L)
-vertical installation with the flow from top to bottom (V)

MAX. DIFFERENTIAL PRESSURE

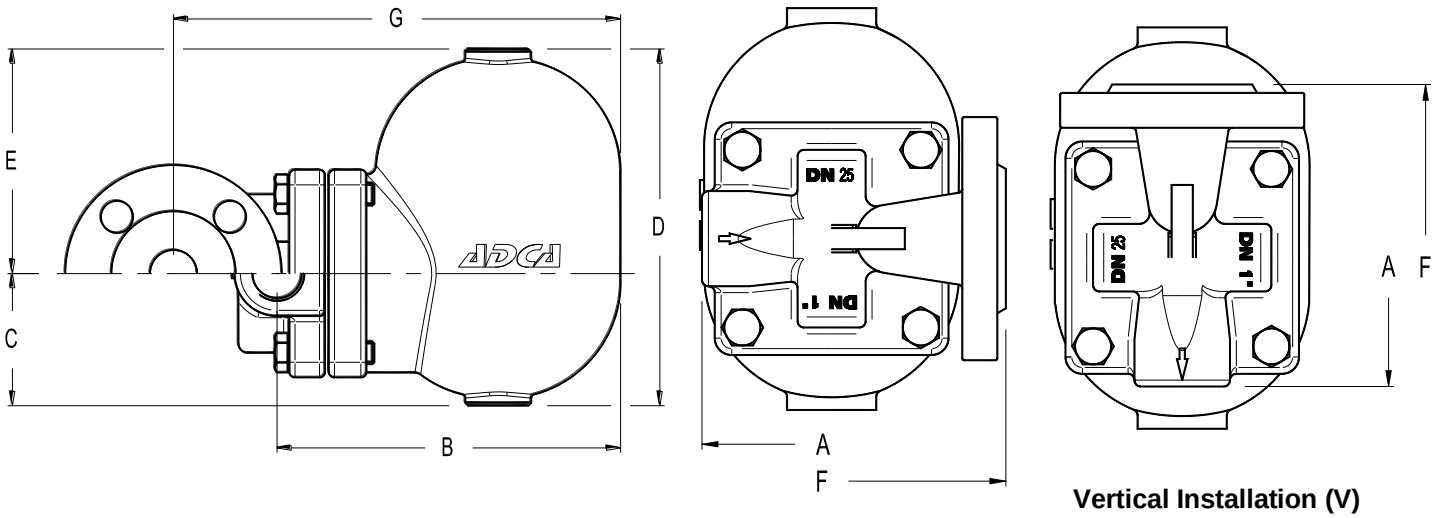
FLT32HC-4,5 : 4,5 bar
FLT32HC-10 : 10 bar
FLT32HC-14: 14 bar
FLT32HC-21: 21 bar

| CE MARKING (PED - European Directive 97/23/EC) | |
|---|---|
| **PN 40** | **Category** |
| DN25 - DN1" | 1 (CE Marked) |

| BODY LIMITING CONDITIONS | | |
|---|---|---|
| **FLANGED PN40 / ANSI 300*** | **FLANGED ANSI 150 ****** | **RELATED TEMP.** |
| **ALLOW. PRES.** | **ALLOW. PRES.** | |
| 37,1 bar | 15,4 bar | 100 ºC |
| 33,3 bar | 13,8 bar | 200 ºC |
| 30,4 bar | 12,1 bar | 250 ºC |
| 27,6 bar | 10,2 bar | 300 ºC |

PMO - Max. operating pressure 32 bar
TMO - Max. operating temperature 250 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread,SW and BW.

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***MODEL*** | ***SIZE*** | ***DIFFERENTIAL PRESSURE (bar)*** | | | | | | | | | | | | | | |
| | | ***0,5*** | ***1*** | ***1,5*** | ***2*** | ***3*** | ***4,5*** | ***6*** | ***7*** | ***8*** | ***9*** | ***10*** | ***12*** | ***14*** | ***16*** | ***21*** |
| **FLT32-4,5** | **1"-25HC** | 900 | 1250 | 1450 | 1700 | 2010 | 2400 | | | | | | | | | |
| **FLT32-10** | **1"-25HC** | 450 | 620 | 790 | 880 | 1100 | 1250 | 1500 | 1600 | 1700 | 1750 | 1800 | | | | |
| **FLT32-14** | **1"-25HC** | 340 | 435 | 530 | 600 | 610 | 850 | 990 | 1100 | 1190 | 1240 | 1300 | 1350 | 1380 | | |
| **FLT32-21** | **1"-25HC** | 230 | 330 | 400 | 440 | 535 | 630 | 720 | 800 | 840 | 900 | 920 | 1020 | 1120 | 1260 | 1270 |



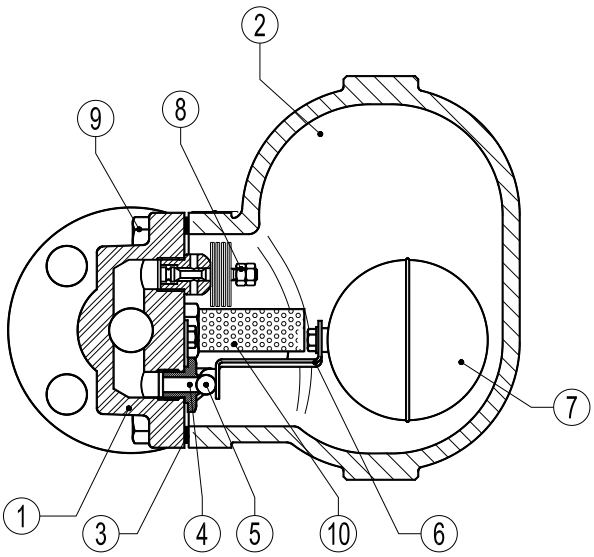

**Vertical Installation (V)**

| DIMENSIONS (mm) | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Screwed | | | | | | | EN PN 16 / 40 | | | EN PN 16 / 40 * | | | ANSI 150 | | | ANSI 150 * | | | ANSI 300 | | | ANSI 300 * | | |
| *SIZE DN* | *A* | *B* | *C* | *D* | *E* | *WT. Kgs* | *F* | *G* | *WT. Kgs* | *F* | *B* | *WT. Kgs* | *F* | *G* | *WT. Kgs* | *F* | *B* | *WT. Kgs* | *F* | *G* | *WT. Kgs* | *F* | *B* | *WT. Kgs* |
| 25-1" | 120 | 195 | 80 | 190 | 110 | 9 | 160 | 248 | 11,3 | 230 | 195 | 12 | 160 | 248 | 11 | 230 | 195 | 11,2 | 160 | 248 | 11,3 | 230 | 195 | 12,8 |

* Alternative

| MATERIALS | | |
|---|---|---|
| *POS.Nr.* | *DESIGNATION* | *MATERIAL* |
| 1 | Body | GP240GH / 1.0619 |
| 2 | Cover | GP240GH / 1.0619 |
| 3 | *Gasket | Stainless st. / Graphite |
| 4 | *Seat | AISI 410 / 1.4006 |
| 5 | *Valve | AISI 440C / 1.4125 |
| 6 | *Lever | AISI 304 / 1.4301 |
| 7 | *Float | AISI 304 / 1.4301 |
| 8 | *Air vent | Stainless st. (Bimetallic) |
| 9 | Bolts | Steel 8.8 |
| 10 | **Strainer | AISI 304 / 1.4301 |

*Available spare parts ; ** Optional



# FLOAT AND THERMOSTATIC STEAM TRAPS
# FLT32
# (Cast steel DN40-50)

DESCRIPTION

FLT32 float and thermostatic (integral air vent) steam traps series are designed for all types of low and high pressure steam heating and process equipment.
Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.
Connections are female screwed or flanged for horizontal or vertical installation.

MAIN FEATURES

Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge (by thermostatic air vent).

| | |
|---|---|
| OPTIONS: | SLR – steam lock release<br>Equalizing plug or vent connection |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | FLT32-4,5 , 10 , 14 and 21 |
| SIZES: | DN11/2" - DN2" ; DN40 – DN50 |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21)<br>Flanged EN 1092-1 PN40 or ANSI |
| INSTALLATION: | Standard horizontal installation –<br>From right to left FLT32 (R-L) |

Upon request:
-horizontal installation with the flow from left to right (L-R)
-vertical installation with the flow from top to bottom (V)

MAX. DIFFERENTIAL PRESSURE

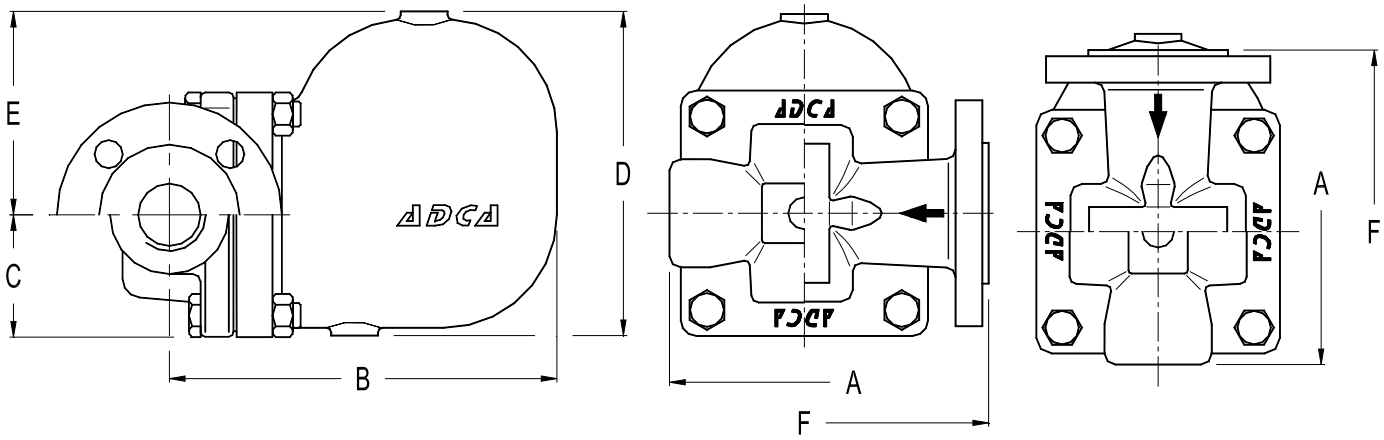
FLT32-4,5 : 4,5 bar
FLT32-10 : 10 bar
FLT32-14: 14 bar
FLT32-21: 21 bar

| CE MARKING (PED - European Directive 97/23/EC) | |
|---|---|
| **PN 40** | **Category** |
| DN40 - DN50 | 1 (CE Marked) |

| BODY LIMITING CONDITIONS | | |
|---|---|---|
| **FLANGED PN40 / ANSI 300*** | **FLANGED ANSI 150 ****** | **RELATED TEMP.** |
| **ALLOW. PRES.** | **ALLOW. PRES.** | |
| 37,1 bar | 15,4 bar | 100 ºC |
| 33,3 bar | 13,8 bar | 200 ºC |
| 30,4 bar | 12,1 bar | 250 ºC |
| 27,6 bar | 10,2 bar | 300 ºC |

PMO - Max. operating pressure 32 bar
TMO - Max. operating temperature 250 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread,SW and BW.

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***MODEL*** | ***SIZE*** | ***DIFFERENTIAL PRESSURE (bar)*** | | | | | | | | | | |
| | | ***0,5*** | ***1*** | ***1,5*** | ***2*** | ***4,5*** | ***7*** | ***10*** | ***12*** | ***14*** | ***16*** | ***21*** |
| **FLT32-4,5** | **40-50** | 2400 | 3400 | 3900 | 4500 | 7300 | | | | | | |
| **FLT32-10** | **40-50** | 1500 | 2000 | 2600 | 3000 | 4000 | 5400 | 6200 | | | | |
| **FLT32-14** | **40-50** | 950 | 1300 | 1600 | 1800 | 2600 | 3250 | 3900 | 4210 | 4950 | | |
| **FLT32-21** | **40-50** | 950 | 1300 | 1600 | 1800 | 2600 | 3250 | 3900 | 4210 | 4950 | 5000 | 5600 |

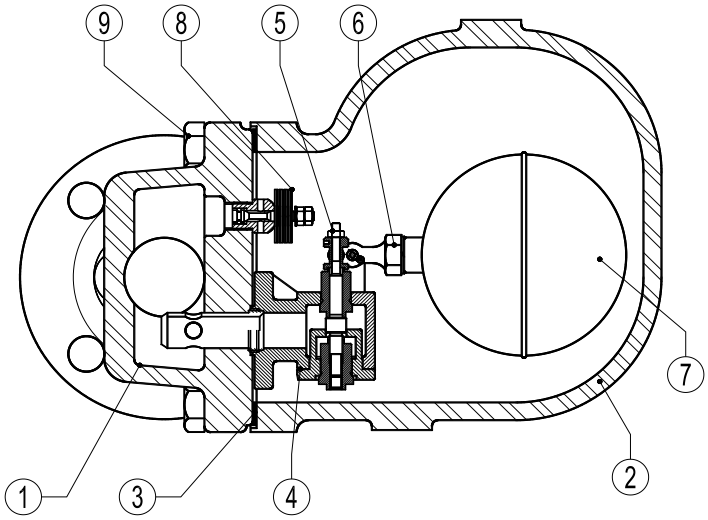



**Vertical Installation (V)**

| DIMENSIONS (mm) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Screwed | | | | | | | EN PN16 / 40 | | | ANSI 150 | | | ANSI 300 | | |
| *SIZE DN* | *A* | *B* | *C* | *D* | *E* | *WGT. Kgs* | *F* | *B* | *WGT. Kgs* | *F* | *B* | *WGT. Kgs* | *F* | *B* | *WGT. Kgs* |
| 40-11/2" | 210 | 248 | 79 | 208 | 131 | 16,9 | 230 | 248 | 20,3 | 230 | 248 | 19,1 | 230 | 248 | 22,1 |
| 50-2" | 210 | 248 | 79 | 208 | 131 | 17,5 | 230 | 248 | 20,7 | 230 | 248 | 20,5 | 230 | 248 | 22,3 |

| MATERIALS | | |
|---|---|---|
| *POS.Nr.* | *DESIGNATION* | *MATERIAL* |
| 1 | Body | GP240GH / 1.0619 |
| 2 | Cover | GP240GH / 1.0619 |
| 3 | *Gasket | Stainless st. / Graphite |
| 4 | *Seat | CF8 / 1.4308 |
| 5 | *Valve | AISI 420 / 1.4021 |
| 6 | *Lever | AISI 304 / 1.4301 |
| 7 | *Float | AISI 304 / 1.4301 |
| 8 | *Air vent | Stainless st. (Bimetallic) |
| 9 | Bolts | Steel 8.8 |

*Available spare parts.



ADCA
STEAM EQUIPMENT

# FLOAT AND THERMOSTATIC STEAM TRAPS
# FLT32
# (Cast steel DN50HC)

DESCRIPTION
FLT32 float and thermostatic (integral air vent) steam traps series are designed for all types of low and high pressure steam heating and process equipment.
Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.
Connections are flanged for horizontal installation.

MAIN FEATURES
Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge (by thermostatic air vent).

| | |
|---|---|
| OPTIONS: | SLR – steam lock release<br>Equalizing plug or vent connection |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | FLT32-4,5 , 10 , 14 and 21 |
| SIZES: | DN50 |
| CONNECTIONS: | Flanged EN 1092-1 PN40 |
| INSTALLATION: | Standard horizontal installation –<br>From right to left FLT32 (R-L) |

Upon request:
-horizontal installation with the flow from left to right (L-R)

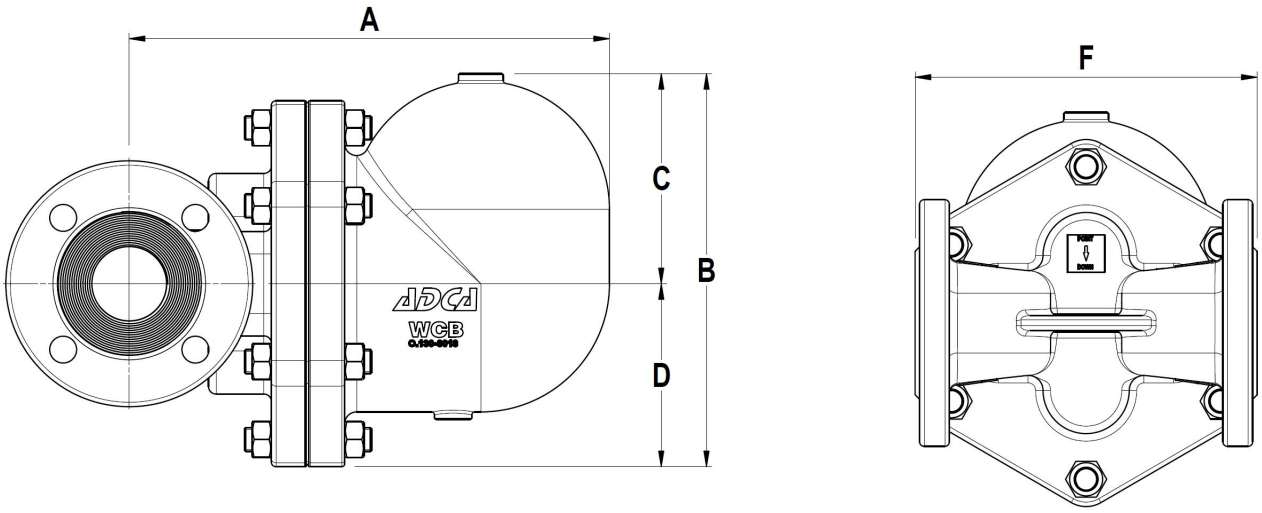
MAX. DIFFERENTIAL PRESSURE
FLT32-4,5 : 4,5 bar
FLT32-10 : 10 bar
FLT32-14: 14 bar
FLT32-21: 21 bar

| CE MARKING (PED - European Directive 97/23/EC) | |
|---|---|
| **PN 40** | **Category** |
| DN50 | 1 (CE Marked) |

| BODY LIMITING CONDITIONS | |
|---|---|
| **FLANGED PN40 * ALLOW. PRES.** | **RELATED TEMP.** |
| 37,1 bar | 100 °C |
| 33,3 bar | 200 °C |
| 30,4 bar | 250 °C |
| 27,6 bar | 300 °C |

PMO - Max. operating pressure 32 bar
TMO - Max. operating temperature 250 °C
* According to EN1092-1:2007 ;

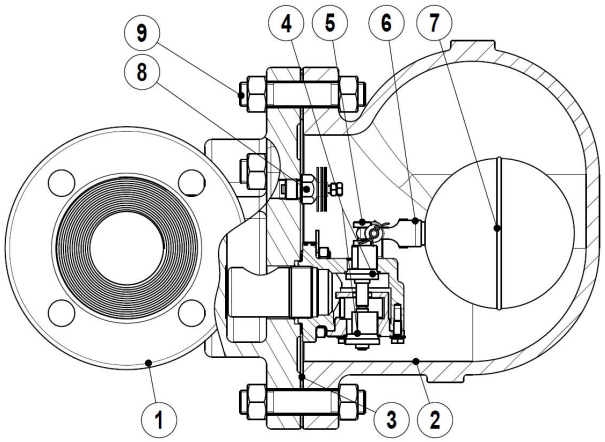
| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***MODEL*** | ***SIZE*** | ***DIFFERENTIAL PRESSURE (bar)*** | | | | | | | | | | |
| | | ***0,5*** | ***1*** | ***1,5*** | ***2*** | ***4,5*** | ***7*** | ***10*** | ***12*** | ***14*** | ***16*** | ***21*** |
| **FLT32-4,5** | **50HC** | 7550 | 11000 | 14000 | 15500 | 22500 | | | | | | |
| **FLT32-10** | **50HC** | 3900 | 5000 | 6100 | 7100 | 10000 | 13750 | 16000 | | | | |
| **FLT32-14** | **50HC** | 1900 | 2700 | 3100 | 3600 | 5000 | 6900 | 8100 | 9000 | 9800 | | |
| **FLT32-21** | **50HC** | 1900 | 2700 | 3100 | 3600 | 5000 | 6900 | 8100 | 9000 | 9800 | 10050 | 11500 |




| DIMENSIONS (mm) | | | | | | |
|---|---|---|---|---|---|---|
| EN PN16 / 40 | | | | | | |
| *SIZE DN* | *A* | *B* | *C* | *D* | *F* | *WGT. Kgs* |
| 50 | 321 | 264 | 141 | 123 | 230 | 37,5 |

| MATERIALS | | |
|---|---|---|
| *POS.Nr.* | *DESIGNATION* | *MATERIAL* |
| 1 | Body | GP240GH / 1.0619 |
| 2 | Cover | GP240GH / 1.0619 |
| 3 | *Gasket | Stainless st. / Graphite |
| 4 | *Seat | CF8 / 1.4308 |
| 5 | *Valve | AISI 420 / 1.4021 |
| 6 | *Lever | AISI 304 / 1.4301 |
| 7 | *Float | AISI 304 / 1.4301 |
| 8 | *Air vent | Stainless st. (Bimetallic) |
| 9 | Bolts | Steel 8.8 |

*Available spare parts.



# FLOAT AND THERMOSTATIC STEAM TRAPS
# FLT14I
# (Stainless steel DN1/2”- 3/4”; DN15-20)

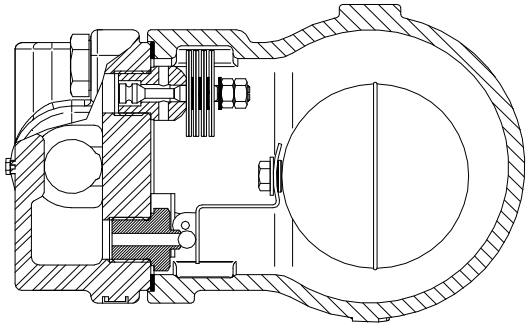
DESCRIPTION

FLT14I float and thermostatic (integral air vent) steam traps series are designed for all types of low and high pressure steam heating and process equipment.
Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.
Connections are female screwed or flanged for horizontal or vertical installation.

MAIN FEATURES

Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge (by thermostatic air vent).

| | |
|---|---|
| OPTIONS: | SLR – steam lock release<br>Equalizing plug or vent connection |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | FLT14I-4,5 , 10 and 14 |
| SIZES: | DN ½” to DN3/4” – DN15 to DN20 |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21)<br>Flanged EN 1092-1 PN16 or ANSI |
| INSTALLATION: | Standard horizontal installation –<br>From right to left FLT14I (R-L) |



Upon request:
-horizontal installation with the flow from left to right (L-R)
-vertical installation with the flow from top to bottom (V)

MAX. DIFFERENTIAL PRESSURE
FLT14I-4,5 : 4,5 bar
FLT14I-10 : 10 bar
FLT14I-14: 14 bar

| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN16* ALLOW. PRES. | FLANGED ANSI 150 ** ALLOW. PRES. | RELATED TEMP. |
| 16 bar | 16 bar | 100 ºC |
| 14,5 bar | 14,8 bar | 150 ºC |
| 13,4 bar | 13,6 bar | 200 ºC |
| 12,7 bar | 12 bar | 250 ºC |

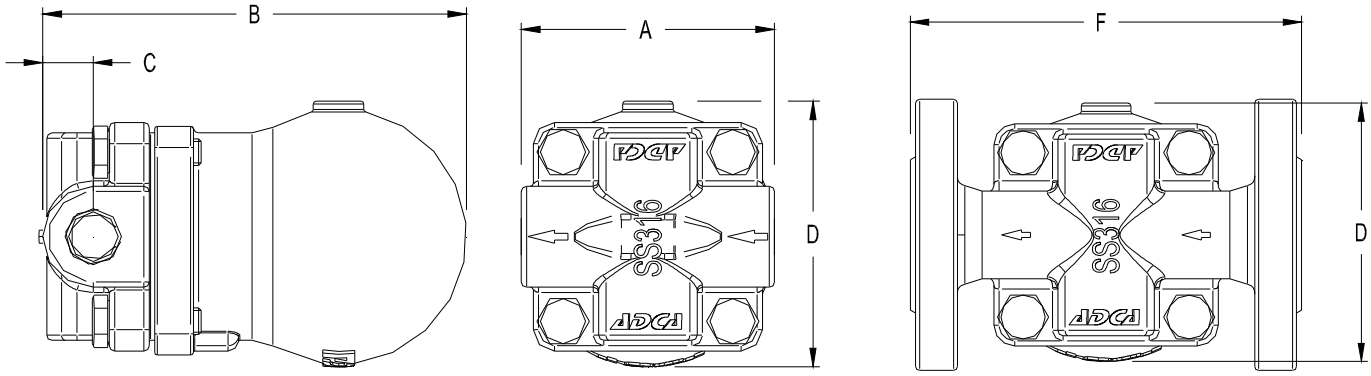
PMO - Max. operating pressure 14 bar
TMO - Max. operating temperature 198 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN16 or below, depending on the type of connection adopted. Rating PN16 for thread.

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | |
| | | 0,5 | 1 | 1,5 | 2 | 3 | 4,5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 |
| FLT14I-4,5 | 15 - 20 | 200 | 280 | 320 | 360 | 400 | 495 | | | | | | | |
| FLT14I-10 | 15 - 20 | 110 | 140 | 175 | 190 | 230 | 280 | 300 | 330 | 350 | 390 | 405 | | |
| FLT14I-14 | 15 - 20 | 70 | 100 | 120 | 140 | 155 | 190 | 210 | 220 | 225 | 230 | 260 | 280 | 300 |

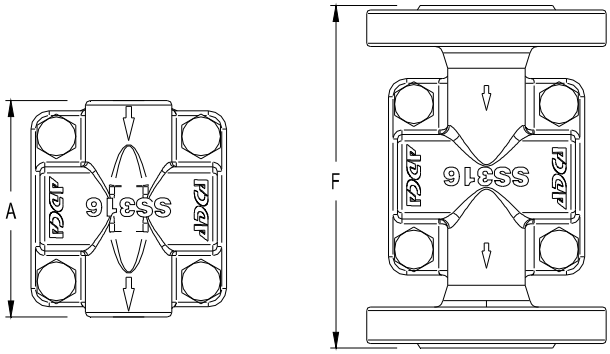




Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.3960 E 05.07



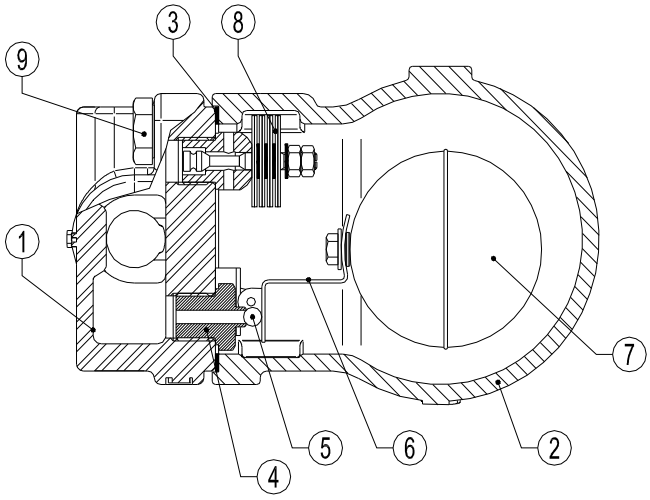

| DIMENSIONS (mm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Screwed | | | | | | EN PN16 | | ANSI 150 | |
| SIZE DN | A | B | C | D | WGT. Kgs | F | WGT. Kgs | F | WGT. Kgs |
| 15-1/2" | 95 | 160 | 23 | 100 | 3,5 | 150 | 5 | 150 | 4,5 |
| 20-3/4" | 95 | 160 | 23 | 100 | 3,5 | 150 | 5,5 | 150 | 4,7 |




**Vertical Installation (V)**

| MATERIALS | | |
|---|---|---|
| POS.Nr. | DESIGNATION | MATERIAL |
| 1 | Body | CF8M / 1.4408 |
| 2 | Cover | CF8M / 1.4408 |
| 3 | *Gasket | Stainless st./Graphite |
| 4 | *Seat | AISI 410 / 1.4006 |
| 5 | *Valve | AISI 440C / 1.4125 |
| 6 | *Lever | AISI 304 / 1.4301 |
| 7 | *Float | AISI 304 / 1.4301 |
| 8 | *Air vent | Stainless st. (Bimetallic) |
| 9 | Bolts | St.Steel A2-70 |

*Available spare parts.

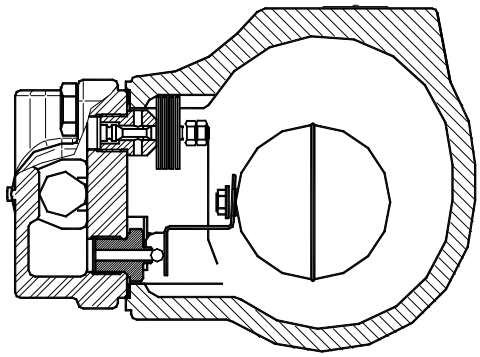


# FLOAT AND THERMOSTATIC STEAM TRAPS
# FLT14I
# (Stainless steel DN1" – DN25)

DESCRIPTION
FLT14I float and thermostatic (integral air vent) steam traps series are designed for all types of low and high pressure steam heating and process equipment.
Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.
Connections are female screwed or flanged for horizontal or vertical installation.

MAIN FEATURES
Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge (by thermostatic air vent).

| | |
|---|---|
| OPTIONS: | SLR – steam lock release<br>Equalizing plug or vent connection |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | FLT14I-4,5 , 10 and 14 |
| SIZES: | DN 1" – DN25 |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21)<br>Flanged EN 1092-1 PN16 or ANSI |
| INSTALLATION: | Standard horizontal installation –<br>From right to left FLT14I (R-L) |



Upon request:
-horizontal installation with the flow from left to right (L-R)
-vertical installation with the flow from top to bottom (V)

MAX. DIFFERENTIAL PRESSURE
FLT14I-4,5 : 4,5 bar
FLT14I-10 : 10 bar
FLT14I-14: 14 bar

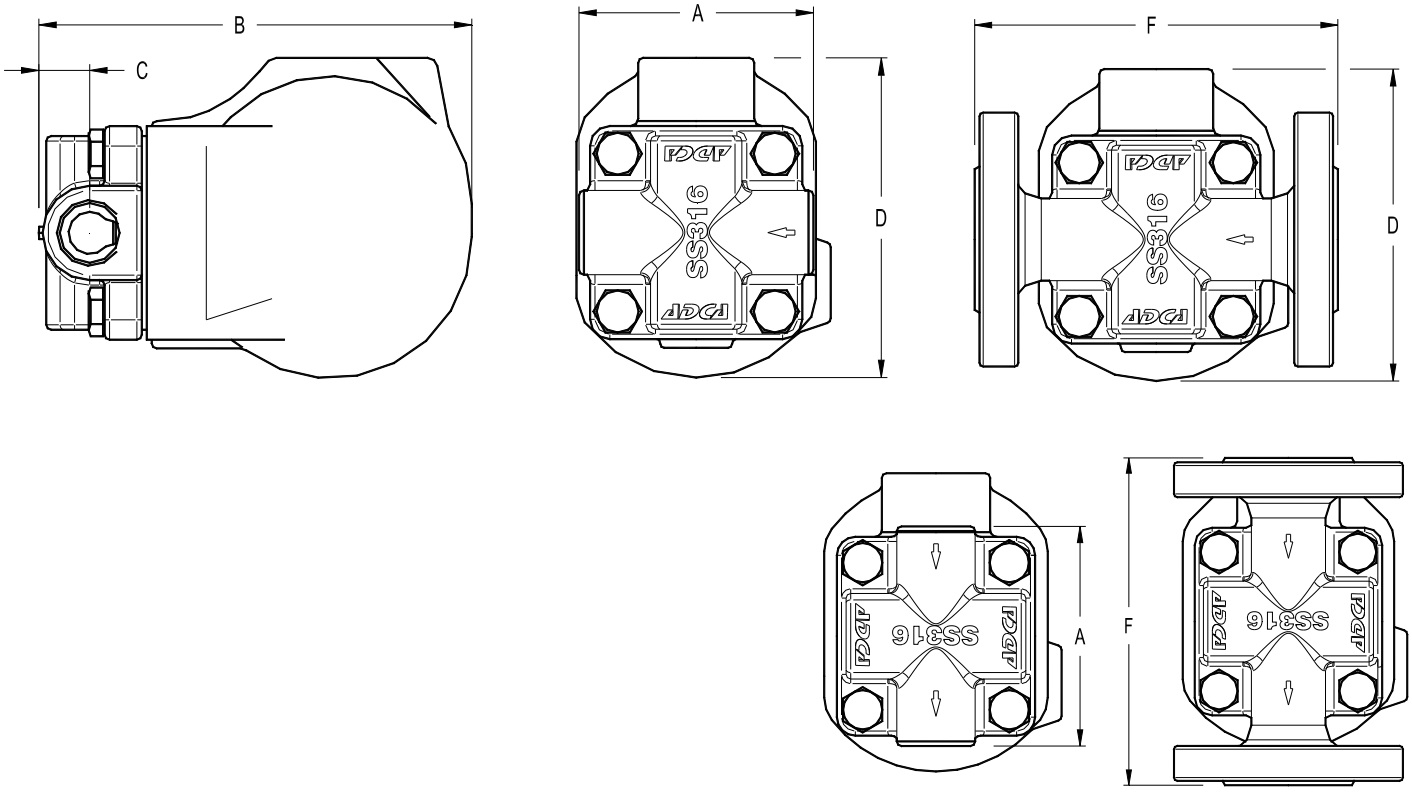
| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN16* | FLANGED ANSI 150 ** | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | |
| 16 bar | 16 bar | 100 ºC |
| 14,5 bar | 14,8 bar | 150 ºC |
| 13,4 bar | 13,6 bar | 200 ºC |
| 12,7 bar | 12 bar | 250 ºC |

PMO - Max. operating pressure 14 bar
TMO - Max. operating temperature 198 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN16 or below, depending on the type of connection adopted. Rating PN16 for thread.

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | |
| | | 0,5 | 1 | 1,5 | 2 | 3 | 4,5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 |
| FLT14I-4,5 | 1"- 25 | 230 | 330 | 400 | 440 | 535 | 630 | | | | | | | |
| FLT14I-10 | 1"- 25 | 150 | 200 | 250 | 280 | 340 | 400 | 460 | 495 | 520 | 550 | 595 | | |
| FLT14I-14 | 1"- 25 | 120 | 150 | 190 | 220 | 260 | 320 | 380 | 400 | 425 | 440 | 480 | 510 | 550 |



Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.3962 E 10.15

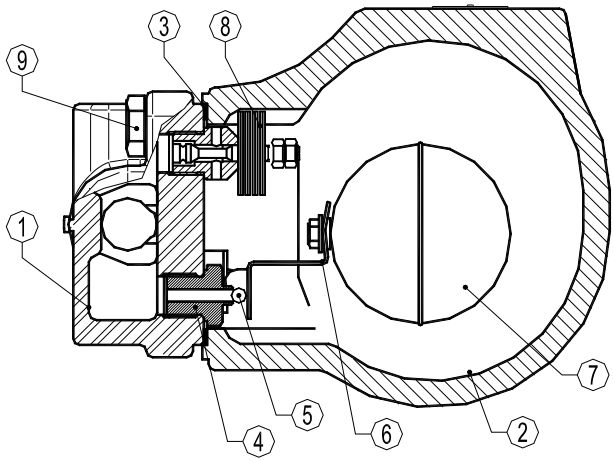



Vertical Installation (V)

| DIMENSIONS (mm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Screwed | | | | | | EN PN16 | | ANSI 150 | |
| SIZE DN | A | B | C | D | WGT. Kgs | F | WGT. Kgs | F | WGT. Kgs |
| 25-1" | 95 | 178 | 23 | 128 | 5,2 | 160 | 7,7 | 160 | 7,3 |

| MATERIALS | | |
|---|---|---|
| POS.Nr. | DESIGNATION | MATERIAL |
| 1 | Body | CF8M / 1.4408 |
| 2 | Cover | CF8M / 1.4408 |
| 3 | *Gasket | Stainless st./Graphite |
| 4 | *Seat | AISI 410 / 1.4006 |
| 5 | *Valve | AISI 440C / 1.4125 |
| 6 | *Lever | AISI 304 / 1.4301 |
| 7 | *Float | AISI 304 / 1.4301 |
| 8 | *Air vent | Stainless st. (Bimetallic) |
| 9 | Bolts | St.Steel A2-70 |

*Available spare parts.



# FLOAT AND THERMOSTATIC STEAM TRAPS
# FLT14I
# (Stainless steel DN1”HC – DN25HC)

DESCRIPTION

FLT14I float and thermostatic (integral air vent) steam traps series are designed for all types of low and high pressure steam heating and process equipment.
Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.
Connections are female screwed or flanged for horizontal or vertical installation.

MAIN FEATURES

Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge (by thermostatic air vent).

| | |
|---|---|
| OPTIONS: | SLR – steam lock release<br>Equalizing plug or vent connection |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | FLT14I-4,5, 10 and 14 |
| SIZES: | DN 1”HC – DN25HC |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21)<br>Flanged EN 1092-1 PN16 or ANSI |
| INSTALLATION: | Standard horizontal installation –<br>From left to right FLT14I (L-R) |

Upon request:
-horizontal installation with the flow from right to left (R-L)
-vertical installation with the flow from top to bottom (V)

MAX. DIFFERENTIAL PRESSURE
FLT14I-4,5 : 4,5 bar
FLT14I-10 : 10 bar
FLT14I-14: 14 bar

**BODY LIMITING CONDITIONS**

| FLANGED PN16* ALLOW. PRES. | FLANGED ANSI 150 ** ALLOW. PRES. | RELATED TEMP. |
|---|---|---|
| 16 bar | 16 bar | 100 ºC |
| 14,5 bar | 14,8 bar | 150 ºC |
| 13,4 bar | 13,6 bar | 200 ºC |
| 12,7 bar | 12 bar | 250 ºC |

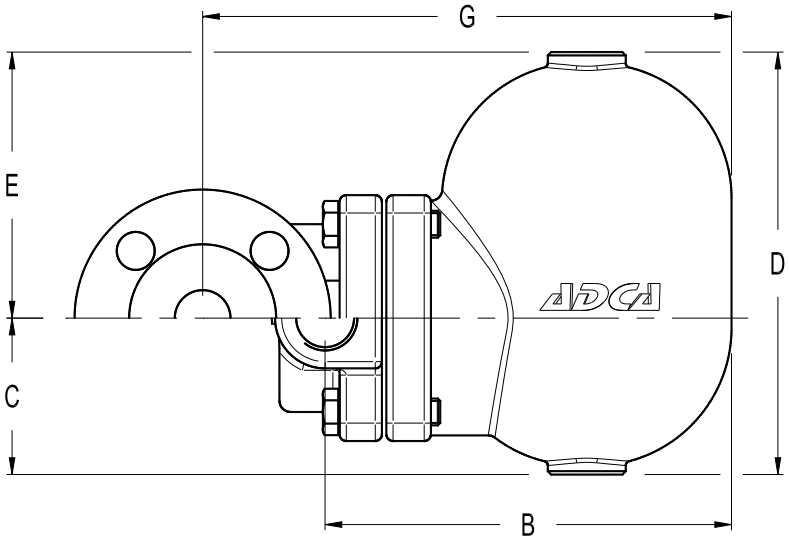
PMO - Max. operating pressure 14 bar
TMO - Max. operating temperature 198 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN16 or below, depending on the type of connection adopted. Rating PN16 for thread.

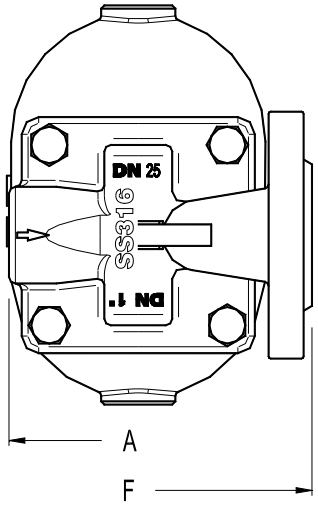
**FLOW RATE CAPACITY IN Kgs/h**

| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0,5 | 1 | 1,5 | 2 | 3 | 4,5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 |
| FLT14I-4,5 | 1"-25HC | 900 | 1250 | 1450 | 1700 | 2010 | 2400 | | | | | | | |
| FLT14I-10 | 1"-25HC | 450 | 620 | 790 | 880 | 1100 | 1250 | 1500 | 1600 | 1700 | 1750 | 1800 | | |
| FLT14I-14 | 1"-25HC | 340 | 435 | 530 | 600 | 610 | 850 | 990 | 1100 | 1190 | 1240 | 1300 | 1350 | 1380 |

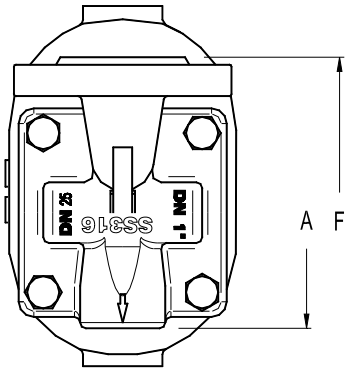


Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.3963 E 12.07



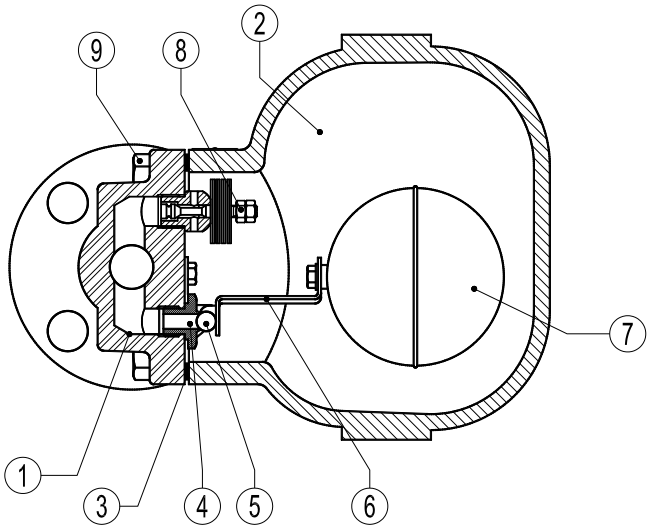

| DIMENSIONS (mm) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Screwed | | | | | | | EN PN16 | | | ANSI 150 | | |
| SIZE DN | A | B | C | D | E | WGT. Kgs | F | G | WGT. Kgs | F | G | WGT. Kgs |
| 25-1" | 120 | 195 | 80 | 190 | 110 | 9 | 160 | 248 | 11,3 | 160 | 248 | 10,9 |




**Vertical Installation (V)**

| MATERIALS | | |
|---|---|---|
| POS.Nr. | DESIGNATION | MATERIAL |
| 1 | Body | CF8M / 1.4408 |
| 2 | Cover | CF8M / 1.4408 |
| 3 | *Gasket | Stainless st./Graphite |
| 4 | *Seat | AISI 410 / 1.4006 |
| 5 | *Valve | AISI 440C / 1.4125 |
| 6 | *Lever | AISI 304 / 1.4301 |
| 7 | *Float | AISI 304 / 1.4301 |
| 8 | *Air vent | Stainless st. (Bimetallic) |
| 9 | Bolts | St.Steel A2-70 |

*Available spare parts.



# FLOAT AND THERMOSTATIC STEAM TRAPS
# FLT14I
# (Stainless steel DN40-50)

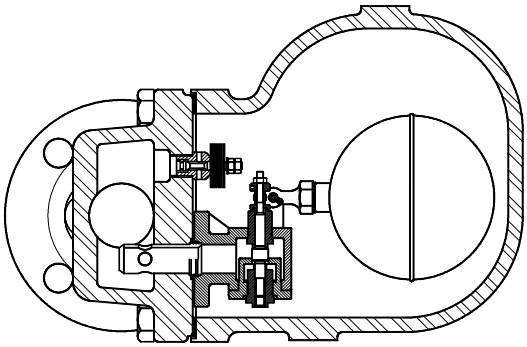
DESCRIPTION

FLT14I float and thermostatic (integral air vent) steam traps series are designed for all types of low and high pressure steam heating and process equipment.
Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.
Connections are female screwed or flanged for horizontal or vertical installation.

MAIN FEATURES

Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge (by thermostatic air vent).

| | |
|---|---|
| OPTIONS: | SLR – steam lock release<br>Equalizing plug or vent connection |
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | FLT14I-4,5 , 10 and 14 |
| SIZES: | DN11/2" - DN2" ; DN40 – DN50 |
| CONNECTIONS: | Female screwed ISO7/1 Rp (BS21)<br>Flanged EN 1092-1 PN16 or ANSI |
| INSTALLATION: | Standard horizontal installation –<br>From right to left FLT14I (R-L) |



Upon request:
-horizontal installation with the flow from left to right (L-R)
-vertical installation with the flow from top to bottom (V)

MAX. DIFFERENTIAL PRESSURE
FLT14I-4,5 : 4,5 bar
FLT14I-10 : 10 bar
FLT14I-14: 14 bar

| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN16* | FLANGED ANSI 150 ** | RELATED TEMP. |
| ALLOW. PRES. | ALLOW. PRES. | |
| 16 bar | 16 bar | 100 ºC |
| 14,5 bar | 14,8 bar | 150 ºC |
| 13,4 bar | 13,6 bar | 200 ºC |
| 12,7 bar | 12 bar | 250 ºC |

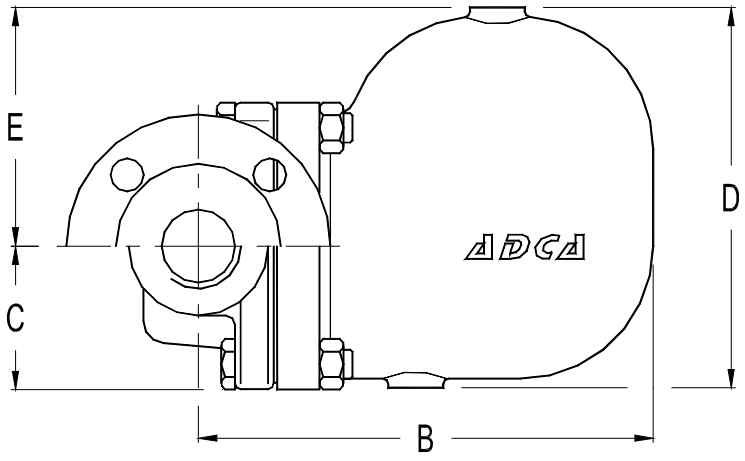
PMO - Max. operating pressure 14 bar
TMO - Max. operating temperature 198 ºC
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN16 or below, depending on the type of connection adopted. Rating PN16 for thread.

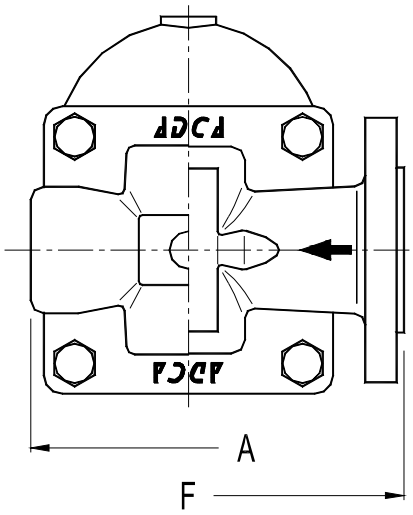
| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | |
| | | 0,5 | 1 | 1,5 | 2 | 4,5 | 7 | 10 | 12 | 14 |
| FLT14I-4,5 | 40-50 | 2400 | 3400 | 3900 | 4500 | 7300 | | | | |
| FLT14I-10 | 40-50 | 1500 | 2000 | 2600 | 3000 | 4000 | 5400 | 6200 | | |
| FLT14I-14 | 40-50 | 950 | 1300 | 1600 | 1800 | 2600 | 3250 | 3900 | 4210 | 4950 |



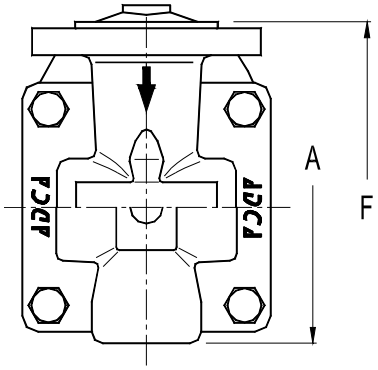


Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.3964 E 11.07



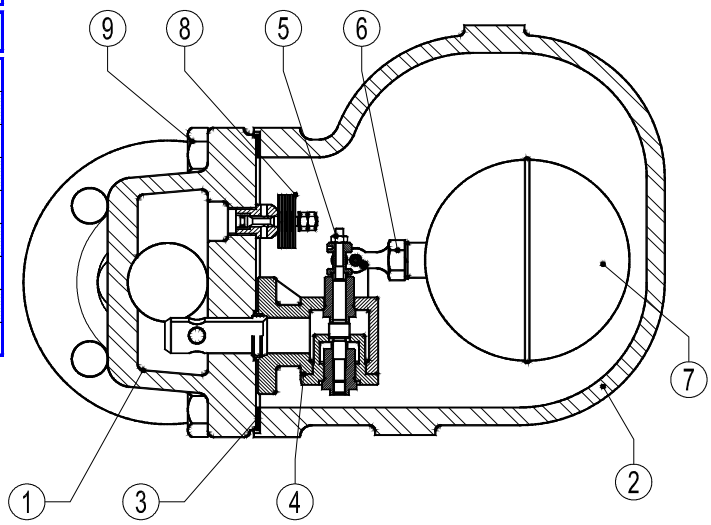

| DIMENSIONS (mm) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Screwed | | | | | | | EN PN16 | | | ANSI 150 | | |
| SIZE DN | A | B | C | D | E | WGT. Kgs | F | B | WGT. Kgs | F | B | WGT. Kgs |
| 40-11/2" | 210 | 248 | 79 | 208 | 131 | 16,9 | 230 | 248 | 20,3 | 230 | 248 | 19,1 |
| 50-2" | 210 | 248 | 79 | 208 | 131 | 17,5 | 230 | 248 | 20,7 | 230 | 248 | 20,5 |




**Vertical Installation (V)**

| MATERIALS | | |
|---|---|---|
| POS.Nr. | DESIGNATION | MATERIAL |
| 1 | Body | CF8M / 1.4408 |
| 2 | Cover | CF8M / 1.4408 |
| 3 | *Gasket | Stainless st./Graphite |
| 4 | *Seat | CF8 / 1.4308 |
| 5 | *Valve | AISI 420 / 1.4021 |
| 6 | *Lever | AISI 304 / 1.4301 |
| 7 | *Float | AISI 304 / 1.4301 |
| 8 | *Air vent | Stainless st. (Bimetallic) |
| 9 | Bolts | St.Steel A2-70 |

*Available spare parts.

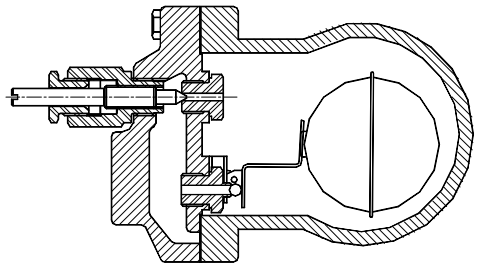


# FLOAT AND THERMOSTATIC STEAM TRAPS
# FLT 16 - FLT17 - FLT32
# SLR Assembly (optional)

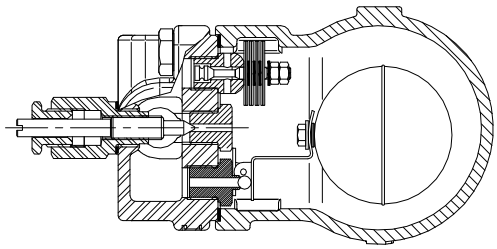
DESCRIPTION

In siphon drip tubes connected to rotating cylinders or long drain lines a steam pocket may form and so the condensate does not reach the trap.
This condition is normally known as *steam locking* and when float and thermostatic steam traps are used it is necessary to prevent the problem.
The SLR - Steam Lock Release should be requested to bleed away that steam.
All the ADCA float and thermostatic steam traps can be supplied with the SLR and some can even be supplied with both SLR and air vent.

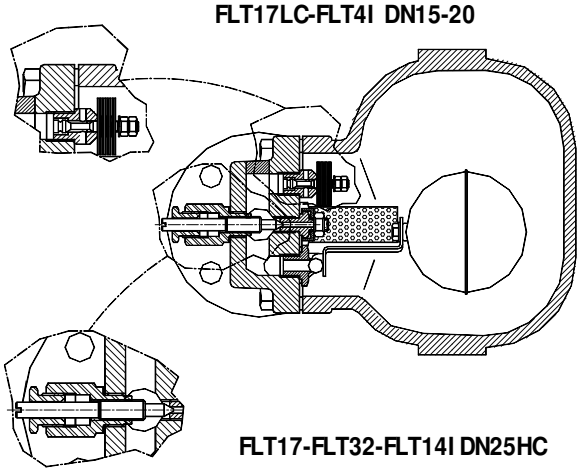
FLT 16 DN15-DN20 Series can be supplied with air eliminator (standard) or with SLR in alternative, FLT17, FLT32 and FLT14I series can be supplied with air eliminator (standard), with SLR or with both air vent and SLR on request.
Internal strainer can also be supplied with the following models: FLT17 and FLT17HC; FLT32 and FLT32HC.



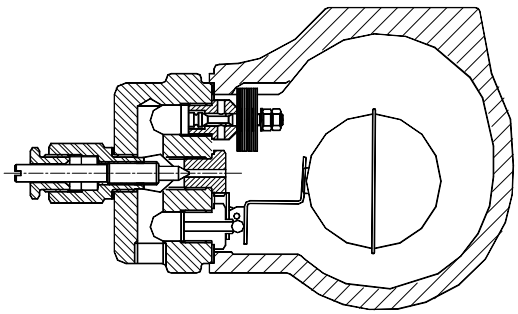
**FLT16 DN15-20**



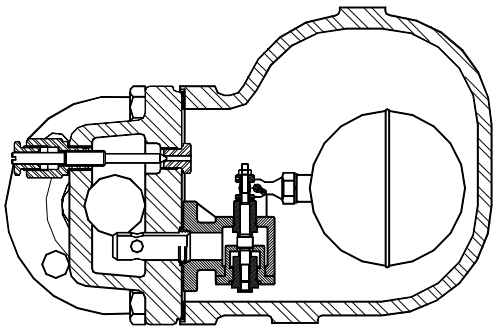
**FLT17LC-FLT4I DN15-20**



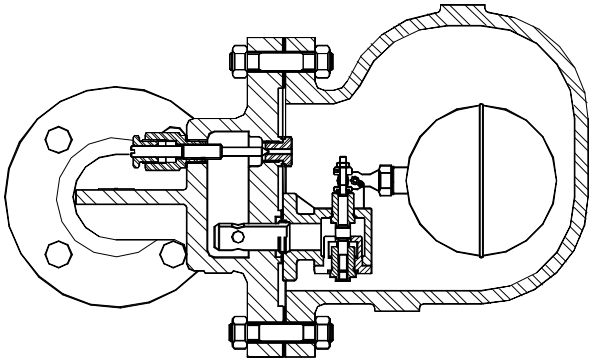
**FLT17-FLT32-FLT14I DN25HC**



**FLT17-FLT32-FLT4I DN15-25**



**FLT17-FLT32-FLT4I DN40-50**



**FLT17 DN50HC**

# FLOAT AND THERMOSTATIC STEAM TRAPS
# FLT22S – Carbon steel / FLT22SS – Stainless steel

DESCRIPTION

FLT22 float and thermostatic (integral air vent) steam traps series are designed for all types of low and high pressure steam heating and process equipment.
Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.
Connections are female screwed or flanged.

MAIN FEATURES

Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge (by thermostatic air vent).

| | |
|---|---|
| USE: | Saturated and superheated steam. |
| AVAIL.MODELS: | FLT 22S – Carbon steel<br>FLT22SS – Stainless steel |
| SIZES: | DN 11/2" - 2"; DN 40 – DN 50 |
| CONNECTIONS: | Female screwed<br>Flanged EN1092-1 PN40 or ANSI |
| INSTALLATION: | Horizontal standard installation from right to left (R-L).<br>Left to right (L-R) or vertical installation top to bottom (V) on request |

**BODY LIMITING CONDITIONS**

| FLT22S | | FLT22SS | | RELATED TEMP. |
|---|---|---|---|---|
| FLANGED PN 25 / ANSI 300 * | FLANGED ANSI 150 ** | FLANGED PN 25 / ANSI 300 * | FLANGED ANSI 150 ** | |
| ALLOW. PRES. | ALLOW. PRES. | ALLOW. PRES. | ALLOW. PRES. | |
| 23,2 bar | 15,4 bar | 21,5 bar | 15,7 bar | 100 °C |
| 20,8 bar | 13,8 bar | 17,5 bar | 13,2 bar | 200 °C |
| 19 bar | 12,1 bar | 16,3 bar | 12 bar | 250 °C |
| 17,2 bar | 10,2 bar | 15,1 bar | 10,2 bar | 300 °C |

PMO - Max. operating pressure 21 bar ; TMO - Max. operating temperature 250 °c
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN25 or below, depending on the type of connection adopted. Rating PN25 for thread.

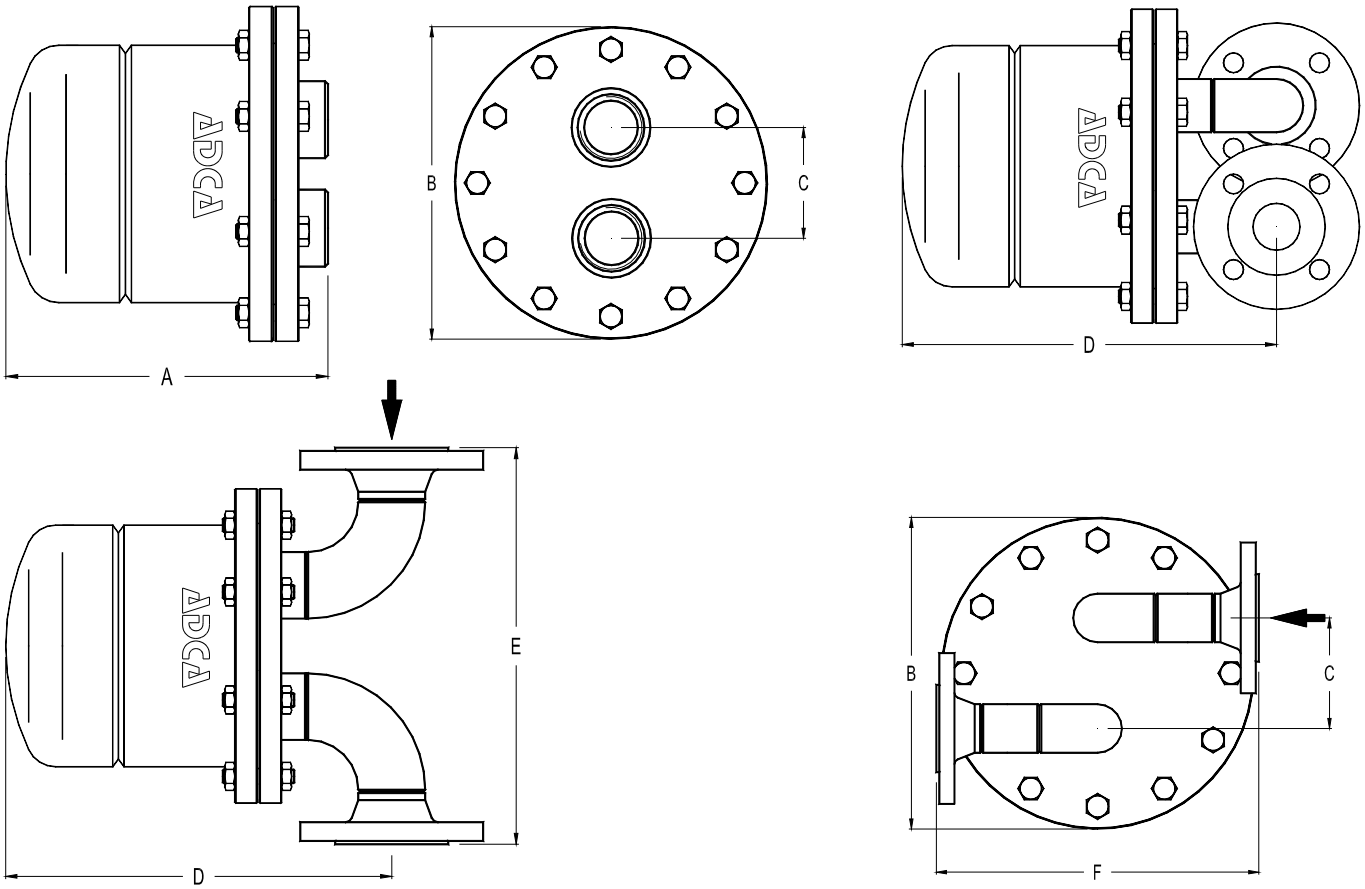
| CE MARKING | |
|---|---|
| PN 25 | Category |
| DN40 - DN50 | 1 (CE Marked) |

MAX. DIFF. PRESSURE: FLT22S-4,5 : 4,5 bar ; FLT22S-10 : 10 bar ; FLT22S-14: 14 bar ; FLT22S-21: 21 bar
Note: the same figures are valid for the FLT22SS

**FLOW RATE CAPACITY IN Kgs/h**

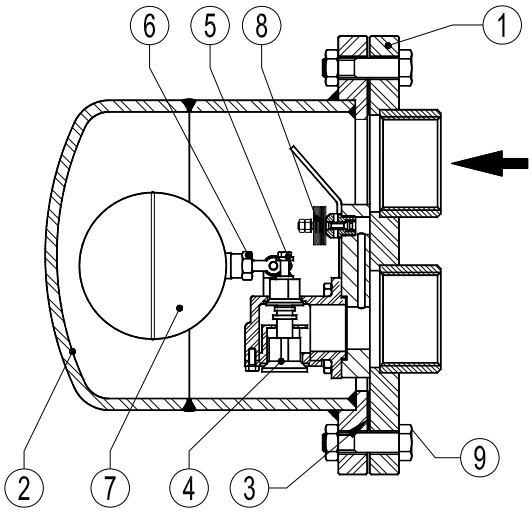
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0,5 | 0,7 | 1 | 1,5 | 2 | 4,5 | 7 | 10 | 12 | 14 | 16 | 21 |
| FLT22S-4,5 | 40-11/2" | 2400 | 2800 | 3400 | 3900 | 4500 | 7300 | | | | | | |
| FLT22S-10 | 40-11/2" | 1500 | 1750 | 2000 | 2600 | 3000 | 4000 | 5400 | 6200 | | | | |
| FLT22S-14 | 40-11/2" | 950 | 1100 | 1300 | 1600 | 1800 | 2600 | 3250 | 3900 | 4210 | 4950 | | |
| FLT22S-21 | 40-11/2" | 950 | 1100 | 1300 | 1600 | 1800 | 2600 | 3250 | 3900 | 4210 | 4950 | 5000 | 5600 |
| FLT22S-4,5 | 50-2" | 7550 | 9050 | 11000 | 14000 | 15500 | 22500 | | | | | | |
| FLT22S-10 | 50-2" | 3900 | 4450 | 5000 | 6100 | 7100 | 10000 | 13750 | 16000 | | | | |
| FLT22S-14 | 50-2" | 1900 | 2300 | 2700 | 3100 | 3600 | 5000 | 6900 | 8100 | 9000 | 9800 | | |
| FLT22S-21 | 50-2" | 1900 | 2300 | 2700 | 3100 | 3600 | 5000 | 6900 | 8100 | 9000 | 9800 | 10000 | 12050 |

Note: the same figures are valid for the FLT22SS




| DIMENSIONS (mm) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SREWED | | | | | FLANGED EN 1092-1 | | | | FLANGE ANSI B16.5 Cl.150 lbs | | | | FLANGE ANSI B16.5 Cl.300 lbs | | | |
| *SIZE DN* | *A* | *B* | *C* | *WGT. Kgs* | *D* | *E* | *F* | *WGT. Kgs* | *D* | *E* | *F* | *WGT. Kgs* | *D* | *E* | *F* | *WGT. Kgs* |
| 40-11/2" | 290 | 310 | 110 | 41 | 355 | 320 | 320 | 43 | 355 | 320 | 320 | 47 | 355 | 320 | 320 | 50 |
| 50-2" | 290 | 310 | 110 | 42 | 355 | 360 | 320 | 45 | 355 | 390 | 350 | 50 | 355 | 403 | 365 | 52 |

| MATERIALS | | | |
|---|---|---|---|
| *POS. Nr.* | *DESIGN.* | *MATERIAL FLT22S* | *MATERIAL FLT22SS* |
| 1 | Body | P250GH / 1.0460 ; P235GH / 1.0305 ; S355J2G3 / 1.0570 ; S235JRG2/1.0038 | AISI316 / 1.4401 ; AISI304 / 1.4301 |
| 2 | Cover | P235GH / 1.0305 ; P265GH / 1.0425 ; S355J2G3 / 1.0570 | AISI316 / 1.4401 ; AISI304 / 1.4301 |
| 3 | *Gasket | Graphite | Graphite |
| 4 | *Seat | CF8 / 1.4308 | CF8 / 1.4308 |
| 5 | *Valve | AISI420 / 1.4021 | AISI420 / 1.4021 |
| 6 | *Lever | AISI304 / 1.4301 | AISI304 / 1.4301 |
| 7 | *Float | AISI304 / 1.4301 | AISI304 / 1.4301 |
| 8 | *Air vent | Stainless steel (Bimetalic) | Stainless steel (Bimetalic) |
| 9 | Bolts | Steel 8.8 | St.Steel A2-70 |




*Available spare parts.

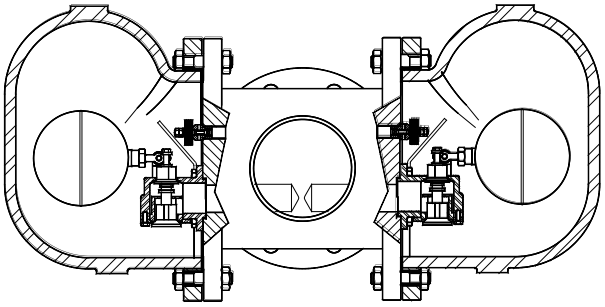
# FLOAT AND THERMOSTATIC STEAM TRAPS
## Twin Float Traps DN 80 DN 100
## FLT22G/TW – Steel body / Cast iron cover

DESCRIPTION

FLT22G/TW float and thermostatic (integral air vent) steam traps series are designed for all types of low and high pressure steam heating and process equipment.
Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.
Connections are flanged for horizontal application.

MAIN FEATURES

Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge (by thermostatic air vent).



USE: Saturated and superheated steam.

AVAILABLE MODELS: FLT 22G/TW

SIZES: DN 80 – DN 100

CONNECTIONS: Flanged EN 1092-1PN16 or ANSI

INSTALLATION: Horizontal standard installation.

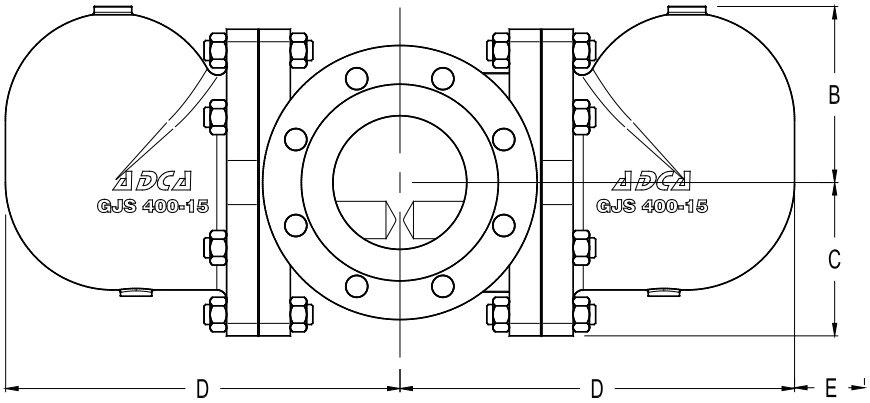
MAX. DIFFERENTIAL PRESSURE
FLT22G/TW-4,5 : 4,5 bar
FLT22G/TW-10 : 10 bar
FLT22G/TW-14: 14 bar

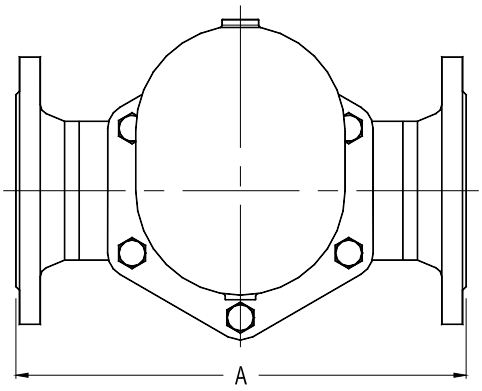
| CE MARKING (PED - European Directive 97/23/EC) | |
|---|---|
| **PN 16** | **Category** |
| DN80 - DN100 | 1 (CE Marked) |

| BODY LIMITING CONDITIONS | |
|---|---|
| **FLANGED PN 16 / ANSI 150 * ALLOW. PRES.** | **RELATED TEMP.** |
| 14,8 bar | 100 ºC |
| 14 bar | 150 ºC |
| 13,3 bar | 200 ºC |
| 12,1 bar | 250 ºC |

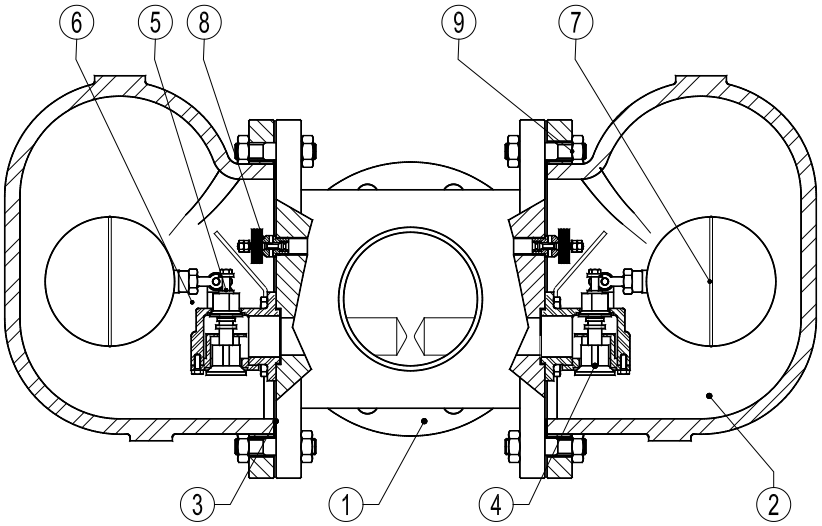
PMO - Max. operating pressure 14 bar
TMO - Max. operating temperature 198 ºC
* According to EN1092-1:2007

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ***MODEL*** | ***SIZE*** | ***DIFFERENTIAL PRESSURE (bar)*** | | | | | | | | |
| | | ***0,5*** | ***0,7*** | ***1*** | ***1,5*** | ***2*** | ***4,5*** | ***7*** | ***10*** | ***14*** |
| **FLT22G/TW-4,5** | **80-100** | 15100 | 18100 | 22000 | 28000 | 31000 | 45000 | | | |
| **FLT22G/TW-10** | **80-100** | 7800 | 8900 | 10000 | 12200 | 14200 | 20000 | 27500 | 32000 | |
| **FLT22G/TW-14** | **80-100** | 3800 | 4600 | 5400 | 6200 | 7200 | 10000 | 13800 | 16200 | 19600 |




| DIMENSIONS (mm) | | | | | | |
|---|---|---|---|---|---|---|
| ***SIZE DN*** | ***A*** | ***B*** | ***C*** | ***D*** | ***E*** | ***WGT. Kgs*** |
| 80 - 3" | 350 | 141 | 123 | 315 | 200 | 73 |
| 100 - 4" | 350 | 141 | 123 | 315 | 200 | 71 |




| MATERIALS | | |
|---|---|---|
| ***POS.Nr.*** | ***DESIGNATION*** | ***MATERIAL FLT22G/TW*** |
| 1 | Body | P250GH / 1.0460 ; P235GH / 1.0305 ; S355J2G3 / 1.0570 ; S235JRG2/1.0038 |
| 2 | Cover | GJS-400-15 / 0.7040 |
| 3 | *Gasket | Graphite |
| 4 | *Seat | CF8 / 1.4308 |
| 5 | *Valve | AISI420 / 1.4021 |
| 6 | *Lever | AISI304 / 1.4301 |
| 7 | *Float | AISI304 / 1.4301 |
| 8 | *Air vent | Stainless steel (Bimetalic) |
| 9 | Bolts | Steel 8.8 |

*Available spare parts.

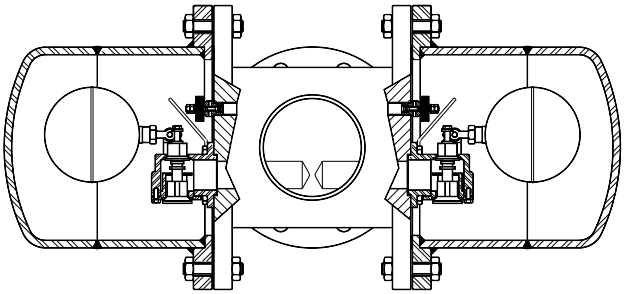
# FLOAT AND THERMOSTATIC STEAM TRAPS
## Twin Float Traps DN 80 DN 100
## FLT22S/TW – Carbon steel / FLT22SS/TW – Stainless steel

DESCRIPTION

FLT22/TW float and thermostatic (integral air vent) steam traps series are designed for all types of low and high pressure steam heating and process equipment.
Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.
Connections are flanged for horizontal application.

MAIN FEATURES

Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge (by thermostatic air vent).



| | |
|---|---|
| USE: | Saturated and superheated steam. |
| AVAILABLE MODELS: | FLT 22S/TW – Carbon steel<br>FLT22SS/TW – Stainless steel |
| SIZES: | DN 80 – DN 100 |
| CONNECTIONS: | Flanged EN 1092-1 PN16/25 or ANSI |
| INSTALLATION: | Horizontal standard installation. |

**BODY LIMITING CONDITIONS**

| FLT22S/TW | | | FLT22SS/TW | | | RELATED TEMP. |
|---|---|---|---|---|---|---|
| FLANGED PN 16 * | FLANGED ANSI 150 ** | FLANGED PN 25 / ANSI 300 * | FLANGED PN 16 * | FLANGED ANSI 150 ** | FLANGED PN 25 / ANSI 300 * | |
| ALLOW. PRES. | ALLOW. PRES. | ALLOW. PRES. | ALLOW. PRES. | ALLOW. PRES. | ALLOW. PRES. | |
| 16 bar | 15,4 bar | 23,2 bar | 16 bar | 15,7 bar | 21,5 bar | 100 °C |
| 13,3 bar | 13,8 bar | 20,8 bar | 13,4 bar | 13,2 bar | 17,5 bar | 200 °C |
| 12,1 bar | 12,1 bar | 19 bar | 12,7 bar | 12 bar | 16,3 bar | 250 °C |
| 11 bar | 10,2 bar | 17,2 bar | 11,8 bar | 10,2 bar | 15,1 bar | 300 °C |

PMO - Max. operating pressure 21 bar TMO - Max. operating temperature 250 °C
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN25 or below, depending on the type of connection adopted.

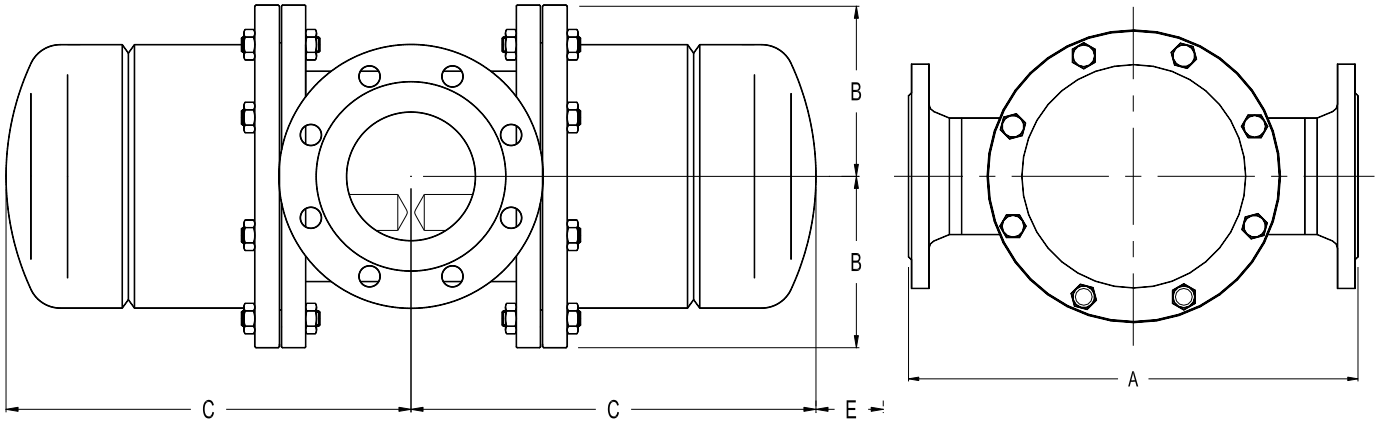
MAX. DIFFERENTIAL PRESSURE
FLT22S/TW-4,5 : 4,5 bar
FLT22S/TW-10 : 10 bar
FLT22S/TW-14: 14 bar
FLT22S/TW-21: 21 bar
Note: the same figures are valid for the FLT22SS/TW

| CE MARKING (PED - European Directive 97/23/EC) | | |
|---|---|---|
| PN 16 | PN 25 | Category |
| DN80 - DN100 | -- | 1 (CE Marked) |
| -- | DN80 - DN100 | 2 (CE Marked) |

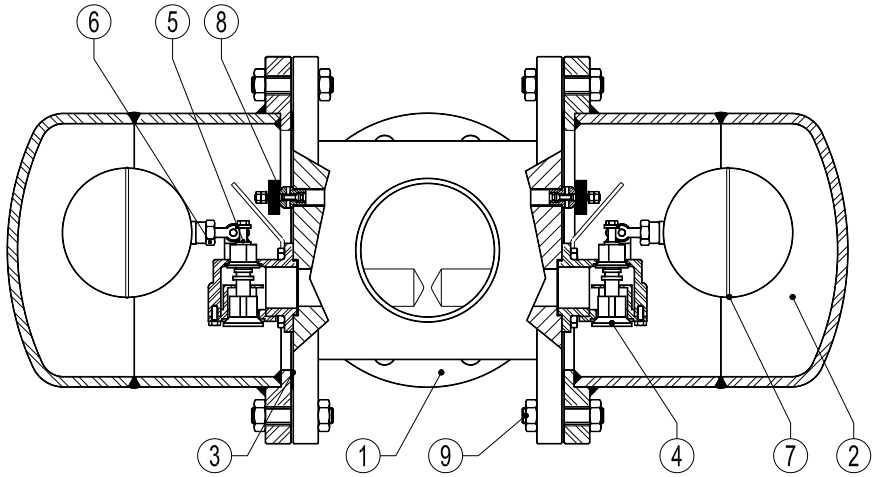
**FLOW RATE CAPACITY IN Kgs/h**

| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0,5 | 0,7 | 1 | 1,5 | 2 | 4,5 | 7 | 10 | 14 | 16 | 21 |
| FLT22S/TW-4,5 | 80-100 | 15100 | 18100 | 22000 | 28000 | 31000 | 45000 | | | | | |
| FLT22S/TW-10 | 80-100 | 7800 | 8900 | 10000 | 12200 | 14200 | 20000 | 27500 | 32000 | | | |
| FLT22S/TW-14 | 80-100 | 3800 | 4600 | 5400 | 6200 | 7200 | 10000 | 13800 | 16200 | 19600 | | |
| FLT22S/TW-21 | 80-100 | 3800 | 4600 | 5400 | 6200 | 7200 | 10000 | 13800 | 16200 | 19600 | 20000 | 24100 |

Note: the same figures are valid for the FLT22SS/TW




| DIMENSIONS (mm) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FLANGED EN 1092-1 | | | | | | FLANGE ANSI B16.5 Cl.150 lbs | | | | | FLANGE ANSI B16.5 Cl.300 lbs | | | | |
| SIZE DN | A | B | C | E | WGT. Kgs | A | B | C | E | WGT. Kgs | A | B | C | E | WGT. Kgs |
| 80 - 3" | 440 | 155 | 345 | 235 | 110 | 463 | 155 | 235 | 235 | 110 | 482 | 155 | 345 | 235 | 110 |
| 100 - 4" | 440 | 155 | 345 | 235 | 115 | 463 | 155 | 235 | 235 | 115 | 482 | 155 | 345 | 235 | 115 |




| MATERIALS | | | |
|---|---|---|---|
| POS.Nr. | DESIGNATION | MATERIAL FLT22S/TW | MATERIAL FLT22SS/TW |
| 1 | Body | P250GH / 1.0460 ; P235GH / 1.0305 ; S355J2G3 / 1.0570 ; S235JRG2/1.0038 | AISI316 / 1.4401 ; AISI304 / 1.4301 |
| 2 | Cover | P235GH / 1.0305 ; P265GH / 1.0425 ; S355J2G3 / 1.0570 | AISI316 / 1.4401 ; AISI304 / 1.4301 |
| 3 | *Gasket | Graphite | Graphite |
| 4 | *Seat | CF8 / 1.4308 | CF8 / 1.4308 |
| 5 | *Valve | AISI420 / 1.4021 | AISI420 / 1.4021 |
| 6 | *Lever | AISI304 / 1.4301 | AISI304 / 1.4301 |
| 7 | *Float | AISI304 / 1.4301 | AISI304 / 1.4301 |
| 8 | *Air vent | Stainless steel (Bimetalic) | Stainless steel (Bimetalic) |
| 9 | Bolts | Steel 8.8 | St.Steel A2-70 |

*Available spare parts.

# FLOAT AND THERMOSTATIC STEAM TRAPS
# FLT 50 S and FLT65 S (Fabricated steel)
# DN50 – DN100

DESCRIPTION

FLT50S / 65S float and thermostatic (integral air vent) steam traps series are designed for all types of low and high pressure steam heating and process equipment.
Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.
Connections are flanged.

MAIN FEATURES

Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge (by thermostatic air vent).

OPTIONS: Equalizing plug or vent connection

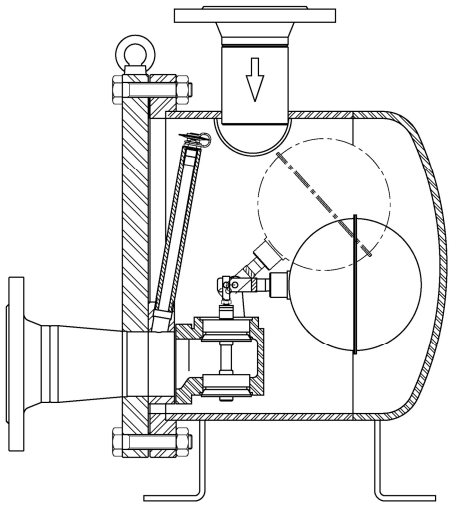
USE: Saturated and superheated steam.

AVAILABLE MODELS: FLT50S – FLT65S

SIZES: FLT50 - DN 50 and DN 65
FLT65 – DN65 to DN100

CONNECTIONS: Flanged EN 1092-1 PN16 or ANSI

INSTALLATION: Horizontal standard installation with vertical inlet and horizontal outlet.

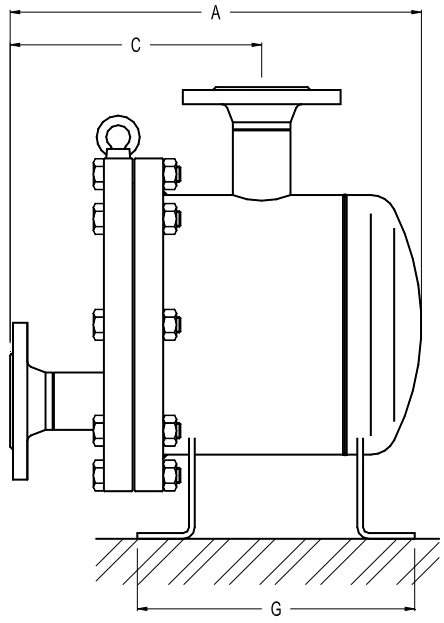


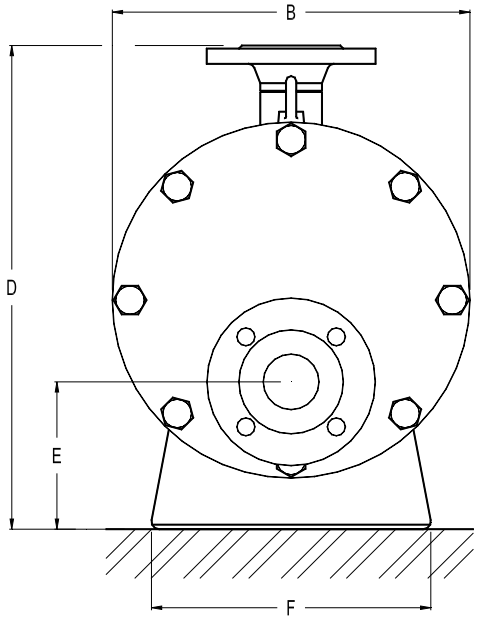
| BODY LIMITING CONDITIONS | |
|---|---|
| FLANGED PN 16 / ANSI 150 * | RELATED TEMP. |
| ALLOW. PRES. | |
| 14,8 bar | 100 ºC |
| 13,3 bar | 200 ºC |
| 12,1 bar | 250 ºC |
| 11 bar | 300 ºC |

PMO - Max. operating pressure 12 bar
TMO - Max. operating temperature 250 ºC
* According to EN1092-1:2007

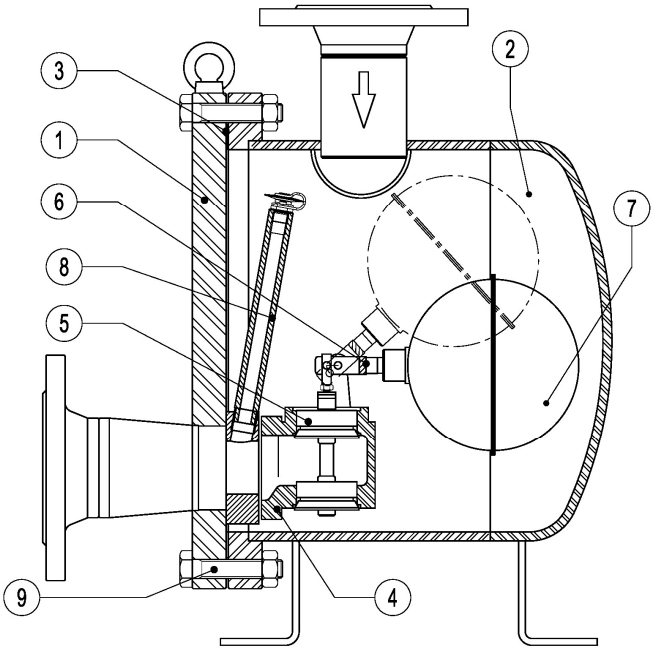
| CE MARKING (PED - European Directive 97/23/EC) | |
|---|---|
| PN 16 | Category |
| FLT50 DN50 - DN65 | 2 (CE Marked) |
| FLT65 DN65 - DN100 | 2(CE Marked) |

| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | | | | | | | | |
| | | 0,1 | 0,3 | 0,5 | 1 | 1,5 | 2 | 2,5 | 3 | 3,5 | 4 | 5 | 6 | 7 | 8 | 10 | 12 |
| FLT50-12 | 50-65 | 7500 | 10000 | 11300 | 12500 | 13500 | 15000 | 16000 | 17500 | 18500 | 20000 | 20500 | 21500 | 22000 | 22500 | 23000 | 23500 |
| FLT65-12 | 65-100 | 18800 | 22700 | 24500 | 29000 | 31000 | 34000 | 37000 | 38000 | 39500 | 42000 | 43500 | 45500 | 47000 | 48000 | 49500 | 50000 |




| DIMENSIONS (mm) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ***MODEL*** | ***SIZE DN*** | ***A*** | ***B*** | ***C*** | ***D*** | ***E*** | ***F*** | ***G*** | ***VOL. dm3*** | ***WGT. Kgs*** |
| FLT 50 | 50 - 2" | 430 | 350 | 250 | 480 | 145 | 275 | 290 | 14,4 | 59 |
| FLT 50 | 65 - 21/2" | 460 | 350 | 280 | 480 | 145 | 275 | 290 | 14,8 | 60 |
| FLT 65 | 65 - 21/2" | 475 | 440 | 255 | 570 | 160 | 360 | 360 | 26,5 | 96,6 |
| FLT 65 | 80 - 3" | 506 | 440 | 286 | 570 | 160 | 360 | 360 | 27 | 98,5 |
| FLT 65 | 100 - 4" | 520 | 440 | 300 | 570 | 160 | 360 | 360 | 28 | 100,5 |




| MATERIALS | | |
|---|---|---|
| ***POS. Nr.*** | ***DESIGNATION*** | ***MATERIAL FLT50 - FLT65*** |
| 1 | Body | P250GH / 1.0460 ; P235GH / 1.0305 ; S355J2G3 / 1.0570 ; S235JRG2/1.0038 |
| 2 | Cover | P235GH / 1.0305 ; P265GH / 1.0425 ; S355J2G3 / 1.0570 |
| 3 | *Gasket | Graphite |
| 4 | *Seat | CF8 / 1.4308 |
| 5 | *Valve | AISI420 / 1.4021; CF8M / 1.4408 |
| 6 | *Lever | AISI316 / 1.4401 ;AISI304 / 1.4301 |
| 7 | *Float | AISI304 / 1.4301 |
| 8 | *Air vent | Stainless steel (Thermostatic) |
| 9 | Bolts | Steel 8.8 |

*Available spare parts.

# HIGH CAPACITY FLOAT AND ORIFICE STEAM TRAPS
# FLT 120 S (Fabricated steel)
# DN150

DESCRIPTION

FLT120S float and orifice steam traps series are designed for all types of low pressure steam heating and process equipment.
Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.
Specially designed for the sugar industry where extremely high flow rates are involved.
Connections are flanged.

MAIN FEATURES
Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.

| | |
|---|---|
| OPTIONS: | Special designs |
| USE: | Saturated steam. |
| AVAILABLE MODELS: | FLT120S |
| SIZES: | DN 150 |
| CONNECTIONS: | Flanged EN 1092-1 PN16 or ANSI |
| INSTALLATION: | Horizontal standard installation. |

**BODY LIMITING CONDITIONS**

| FLANGED PN 16 / ANSI 150 * ALLOW. PRES. | RELATED TEMP. |
|---|---|
| 14,8 bar | 100 °C |
| 13,3 bar | 200 °C |
| 12,1 bar | 250 °C |
| 11 bar | 300 °C |

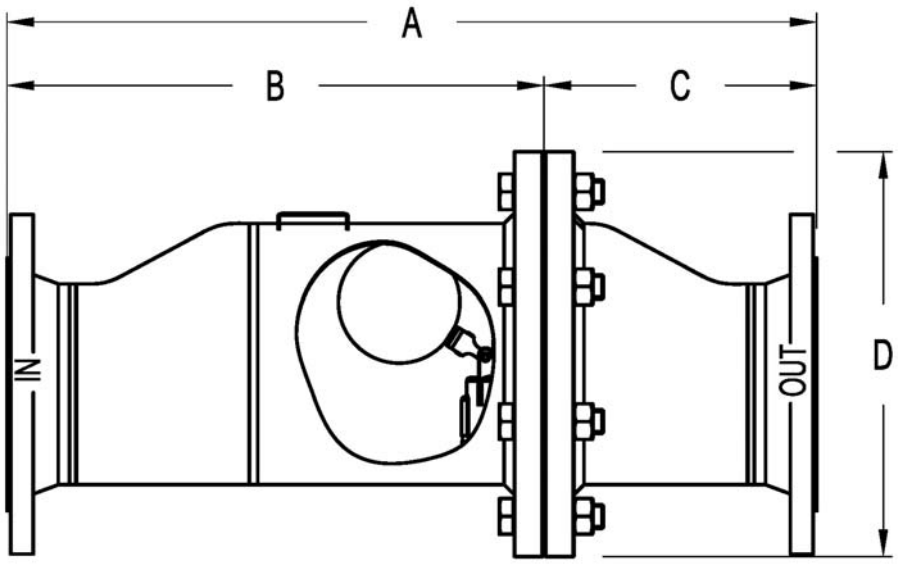
PMO - Max. operating pressure 4 bar
TMO - Max. operating temperature 250 °C
* According to EN1092-1:2007

| CE MARKING (PED - European Directive 97/23/EC) | |
|---|---|
| **Rated PN 10** | **Category** |
| FLT120S - DN150 | 2 (CE Marked) |
| **Rated PN 16** | **Category** |
| FLT120S - DN150 | 2 (CE Marked) |

**FLOW RATE CAPACITY WITH ONE MECHANISM AND ORIFICE**

| *Dif. Press. bar* | *Max.* | **Min.* | *Max.* | **Min.* | *Max.* | **Min.* | *Max.* | **Min.* |
|---|---|---|---|---|---|---|---|---|
| 0,1 | 14000 | 6200 | 19000 | 10500 | 22000 | 13500 | 26000 | 17500 |
| 0,3 | 24000 | 10500 | 33000 | 18000 | 36000 | 22000 | 42000 | 28500 |
| 0,7 | 35000 | 15500 | 48000 | 26500 | 55000 | 34000 | 61000 | 41500 |
| 1 | 40000 | 17000 | 56000 | 31000 | 61000 | 37500 | 70000 | 47500 |
| 1,5 | 48000 | 21500 | 63000 | 35000 | 71000 | 44000 | 83000 | 56500 |
| 2 | 56000 | 24500 | 72000 | 39500 | 82000 | 51000 | 98000 | 66500 |
| 3 | 65000 | 28500 | 89000 | 49000 | 98000 | 60500 | 120000 | 81500 |
| 4 | 72000 | 31000 | 98000 | 54000 | 115000 | 72000 | 130000 | 88500 |
| *Orifice Nr.* | *O1* | | *O2* | | *O3* | | *O4* | |

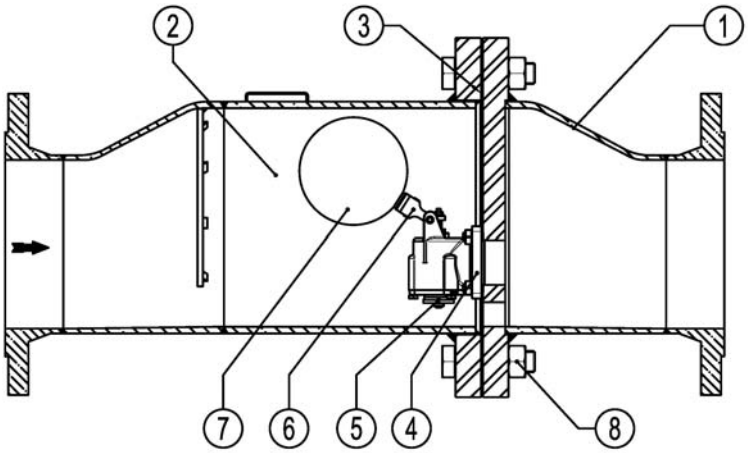
* The minimum flow rate is necessary to ensure that the orifice does not waste steam.




| DIMENSIONS (mm) | | | | | | |
|---|---|---|---|---|---|---|
| ***MODEL*** | ***SIZE DN*** | ***A*** | ***B*** | ***C*** | ***D*** | ***WGT. Kgs*** |
| FLT 120S | 150 | 680 | 450 | 230 | 340 | 68 |

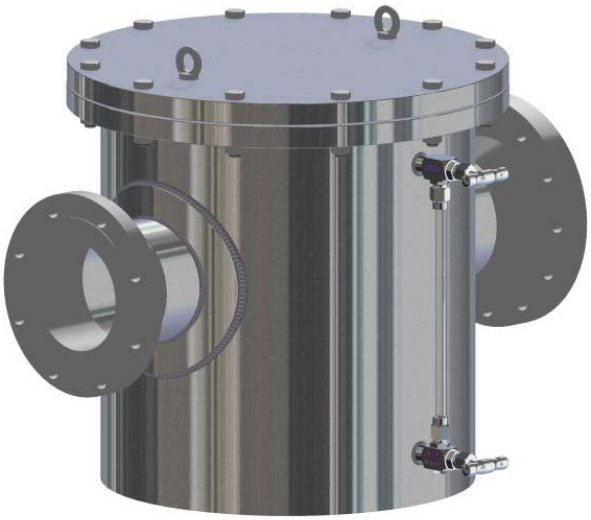
| MATERIALS | | |
|---|---|---|
| ***POS.Nr.*** | ***DESIGNATION*** | ***MATERIAL*** |
| 1 | Body | P250GH / 1.0460 ; P235GH / 1.0305 ; S355J2G3 / 1.0570 ; S235JRG2/1.0038 |
| 2 | Cover | P250GH / 1.0460 ; P235GH / 1.0305 ; S355J2G3 / 1.0570 ; S235JRG2/1.0038 |
| 3 | *Gasket | Graphite |
| 4 | *Seat | CF8 / 1.4308 |
| 5 | *Valve | AISI420 / 1.4021; CF8M / 1.4408 |
| 6 | *Lever | AISI316 / 1.4401 ;AISI304 / 1.4301 |
| 7 | *Float | AISI304 / 1.4301 |
| 8 | Bolts | Steel 8.8 |

*Available spare parts.



# HIGH CAPACITY FLOAT AND THERMOSTATIC STEAM TRAPS
## FLT 150 S (Fabricated steel)
## DN100 – DN150

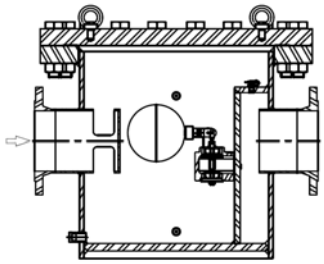
DESCRIPTION

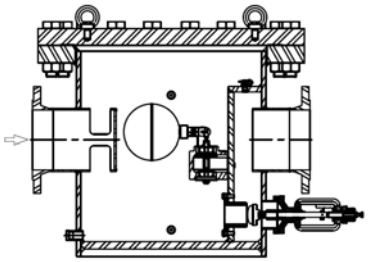


FLT150S float and thermostatic (integral air vent) steam traps series are designed for all types of low and medium pressure steam heating and process equipment.
Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.
Specially designed for sugar and alcohol refineries and where extremely high flow rates are involved.
Connections are flanged.

MAIN FEATURES

Modulating discharge.
Discharges condensate at steam temperature.
Unaffected by sudden or wide load and pressure changes.
Excellent air discharge(by high capacity thermostatic air vent)





OPTIONS: By-pass valve with aperture indicator
USE: Saturated steam.
AVAIL.MODELS: FLT150S-TW – Double mechanism
FLT150S-O –Single mech. w/ orifice
SIZES: DN 100 to DN 150
CONNECTIONS: Flanged EN 1092-1 PN6/PN10/PN16 or ANSI

**BODY LIMITING CONDITIONS**

| FLANGED PN 16 / ANSI 150 * ALLOW. PRES. | FLANGED PN 10 ALLOW. PRES. | FLANGED PN 6 ALLOW. PRES. | RELATED TEMP. |
|---|---|---|---|
| 16 bar | 10 bar | 6 bar | 50 ºC |
| 14,8 bar | 9,2 bar | 5,5 bar | 100 ºC |
| 13,3 bar | 8,3 bar | 5 bar | 200 ºC |
| 12,1 bar | 7,6 bar | 4,5 bar | 250 ºC |

PMO - Max. operating pressure 12 bar
TMO - Max. operating temperature 250 ºC
* According to EN1092-1:2007

**FLOW RATE CAPACITY WITH ONE MECHANISM AND ORIFICE IN Kgs/h**

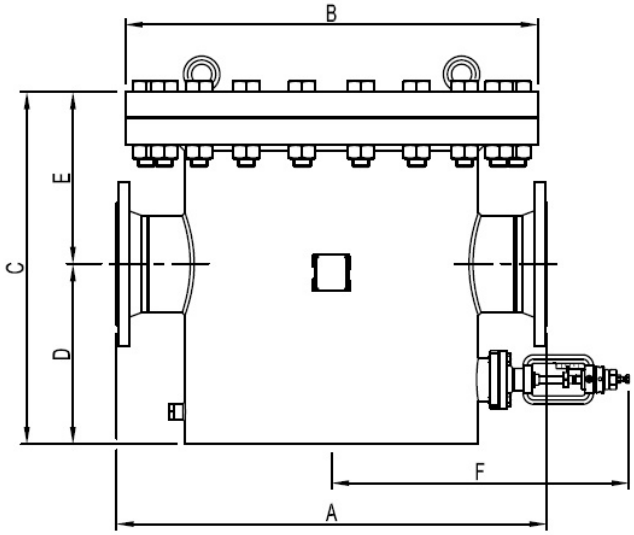
| *Dif. Press. bar* | *DN 100* | | | | *DN 150* | | *ΔQmax* |
|---|---|---|---|---|---|---|---|
| 0,1 | 22300 | 24100 | 26600 | 33700 | 43600 | 56400 | 18800 |
| 0,3 | 27400 | 30300 | 34200 | 45400 | 61200 | 81400 | 22700 |
| 0,7 | 32200 | 36200 | 41800 | 57700 | 79900 | 108600 | 26200 |
| 1 | 34700 | 39500 | 46500 | 65800 | 93100 | 128100 | 27700 |
| 1,4 | 37000 | 42600 | 50500 | 72900 | 104400 | 144900 | 29200 |
| 2 | 40700 | 47600 | 57200 | 84800 | 144900 | 172900 | 31700 |
| *Orifice Nr.* | *O1* | *O2* | *O3* | *O4* | *O5* | *O6* | |

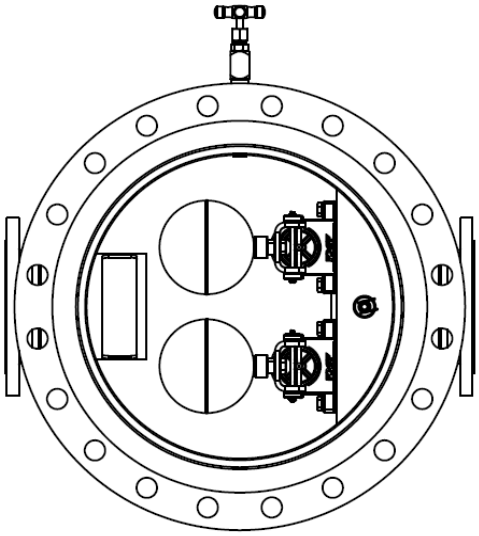
| CE MARKING (PED - European Directive 97/23/EC) | |
|---|---|
| **Rated PN 6** | **Category** |
| FLT150S-TW DN100 - DN150 | 2 (CE Marked) |
| **Rated PN 10** | **Category** |
| FLT150S-TW DN100 - DN150 | 2 (CE Marked) |
| **Rated PN 16** | **Category** |
| FLT150S-TW DN100 - DN150 | 3 (CE Marked) |

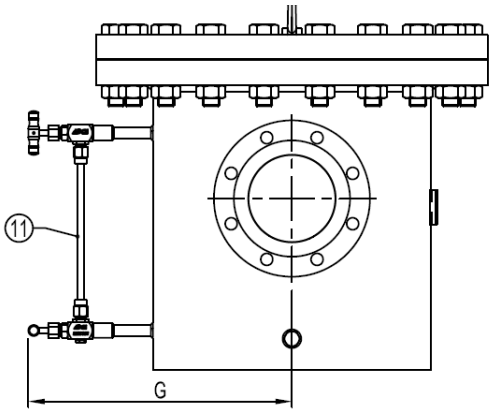
Example: One FLT150-O DN150-05 (with orifice nr.5), operating at a D.P. of 0,3 bar, must have a minimum flow of 38500Kgs/h (61200-22700).
The minimum flow rate is necessary to ensure that the orifice does not waste steam.

**FLOW RATE CAPACITY WITH DOUBLE MECHANISM WITHOUT ORIFICE IN Kgs/h**

| *MODEL FLT* | *SIZE DN* | *DIFFERENTIAL PRESSURE (bar)* | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *0,1* | *0,3* | *0,5* | *1* | *1,5* | *2* | *2,5* | *3* | *3,5* | *4* | *5* | *6* | *7* | *8* | *10* | *12* |
| **150S/TW** | **100-150** | 37600 | 45400 | 49000 | 58000 | 62000 | 68000 | 74000 | 76000 | 79000 | 84000 | 87000 | 91000 | 94000 | 96000 | 99000 | 100000 |



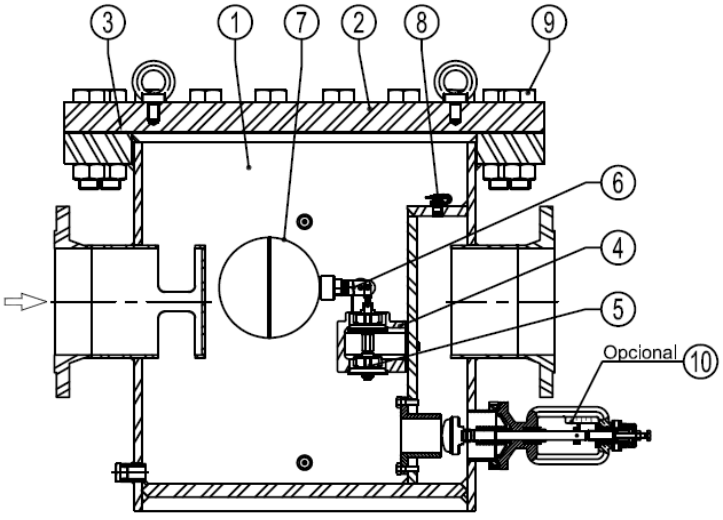






| DIMENSIONS (mm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL FLT150S | SIZE DN | A EN | A ANSI150# | A ANSI300# | B | C | D | E | F | G | WGT. Kgs |
| PN 06 | 100 | 745 | 808 | 827 | 645 | 590 | 312 | 279 | 515 | 480 | 231 |
| | 125 | 745 | 827 | 846 | 645 | 590 | 312 | 279 | 515 | 480 | 240 |
| | 150 | 745 | 827 | 846 | 645 | 590 | 312 | 279 | 515 | 480 | 247 |
| PN 10 | 100 | 745 | 794 | 813 | 670 | 595 | 312 | 284 | 515 | 480 | 270 |
| | 125 | 745 | 813 | 832 | 670 | 595 | 312 | 284 | 515 | 480 | 276 |
| | 150 | 745 | 813 | 832 | 670 | 595 | 312 | 284 | 515 | 480 | 284 |
| PN 16 | 100 | 745 | 794 | 813 | 715 | 610 | 312 | 298 | 515 | 480 | 377 |
| | 125 | 745 | 813 | 832 | 715 | 610 | 312 | 298 | 515 | 480 | 385 |
| | 150 | 745 | 813 | 832 | 715 | 610 | 312 | 298 | 515 | 480 | 401 |

| MATERIALS | | |
|---|---|---|
| POS. Nr. | DESIGNATION | MATERIAL |
| 1 | Body | P250GH / 1.0460 ; P235GH / 1.0305 ; S355J2G3 / 1.0570 ; S235JRG2/1.0038 |
| 2 | Cover | P250GH / 1.0460 |
| 3 | *Gasket | Graphite |
| 4 | *Seat | CF8 / 1.4308 |
| 5 | *Valve | AISI420 / 1.4021; CF8M / 1.4408 |
| 6 | *Lever | AISI316 / 1.4401 ;AISI304 / 1.4301 |
| 7 | *Float | AISI304 / 1.4301 |
| 8 | *Air vent | Stainless steel (Thermostatic) |
| 9 | Bolts | Steel 8.8 |
| 10 | By-pass valve | GJS-400-15 / 0.7040 |
| 11 | Level indicator | Bronze ; Borosilicate glass |

*Available spare parts.



# CONDENSATE DRAIN VALVES
# CDV 32

## DESCRIPTION

CDV32 condensate drain valve automatically drains condensate from steam systems during start-up.
A compression spring inside the governor keeps the valve open if the appliance stays without pressure.
As soon as the service pressure has reached the closing pressure to which the CDV has been adjusted, the valve closes due to the differential pressure.
When the pressure drops below the closing pressure the Condensate Drain Valve opens by spring force.
Connections are female screwed or flanged.

## MAIN FEATURES

Hand purging knob for operating CDV with the system under pressure.
Built-in, easy-to-clean strainer.

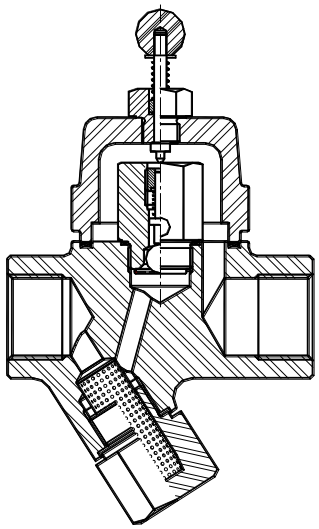
USE : Saturated steam

AVAILABLE MODELS : CDV 32

SIZES : 1/ 2", 3/ 4" - DN15 and DN20.

CONNECTION: Female screwed ISO 7/1 Rp (BS21)
Flanged EN 1092-1PN40 or ANSI
Special flanges upon request.

INSTALLATION: Vertical installation recommended.
When installed in horizontal lines, an outlet connecting pipe pointing downwards should be provided.
See IMI installation and maintenance instructions.



| BODY LIMITING CONDITIONS | | |
|---|---|---|
| FLANGED PN40 / ANSI 300 * ALLOW. PRES. | FLANGED ANSI 150 ** ALLOW. PRES. | RELATED TEMP. |
| 40 bar | 19,3 bar | 50 °C |
| 35 bar | 15,8 bar | 150 °C |
| 30,4 bar | 12,1 bar | 250 °C |
| 27,6 bar | 10,2 bar | 300 °C |

Closing pressure 1,5 bar
PMO - Max. operating pressure 22 bar
TMO - Max. operating temperature 250 °C
* According to EN1092-1:2007 ; ** Acc. to EN1759-1:2004
Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread, SW and BW.

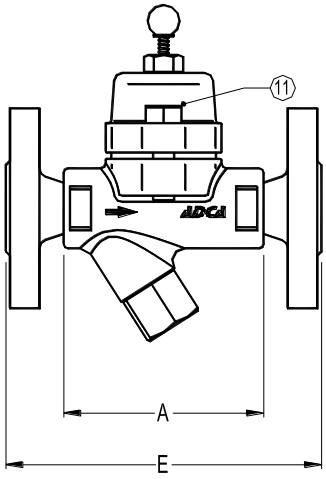
| FLOW RATE CAPACITY IN Kgs/h | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | SIZE | DIFFERENTIAL PRESSURE (bar) | | | | | | | | |
| | | 0,1 | 0,2 | 0,3 | 0,4 | 0,5 | 0,6 | 0,8 | 1 | 1,5 |
| CDV 32 | 15 - 20 | 220 | 280 | 380 | 420 | 470 | 520 | 585 | 630 | 780 |



Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC. IS 1.442 E 05.07

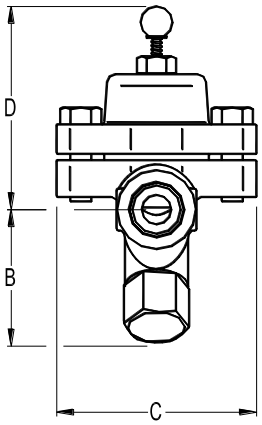
| DIMENSIONS (mm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Screwed and SW* | | | | | | EN PN16/PN40 | | ANSI 150 | | ANSI 300 | |
| SIZE DN | A | B | C | D | WGT. Kgs | E | WGT. Kgs | E | WGT. Kgs | E | WGT. Kgs |
| 15-1/2" | 95 | 65 | 95 | 97 | 1,6 | 150 | 3,2 | 150 | 2,7 | 150 | 3,5 |
| 20-3/4" | 95 | 65 | 95 | 97 | 1,6 | 150 | 3,9 | 150 | 3,1 | 150 | 4,7 |

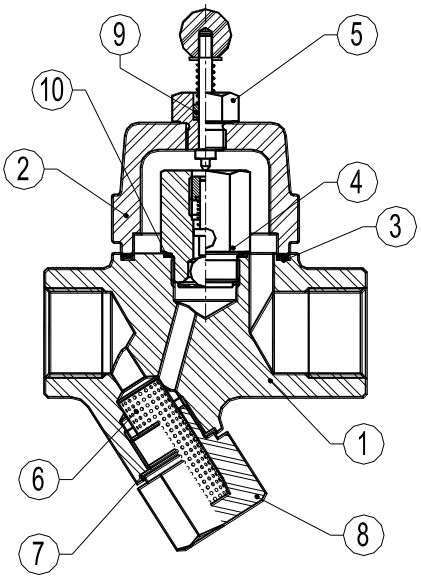
* BW (butt weld) on request.

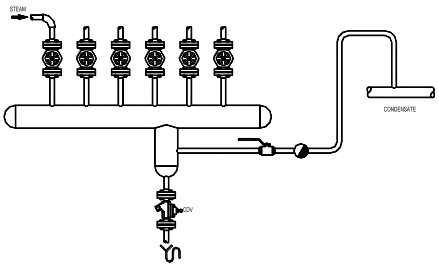



| MATERIALS | | |
|---|---|---|
| POS.Nr. | DESIGNATION | MATERIAL |
| 1 | Body | P250GH / 1.0460 |
| 2 | Cover | P250GH / 1.0460 |
| 3 | * Gasket | St.St./Graphite |
| 4 | * Valve controller | AISI304 / 1.4301 |
| 5 | *Hand purging knob | Plastic |
| 6 | * Strainer screen | AISI304 / 1.4301 |
| 7 | * Gasket | St.Steel / Graphite |
| 8 | Cover strainer | A 105 / 1.0432 |
| 9 | *Gasket | AISI304 / 1.4301 |
| 10 | *Gasket | AISI304 / 1.4301 |
| 11 | Bolts | Steel 8.8 |

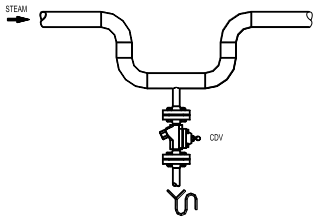
* Available spare parts




**Draining a steam main with an elevated condensate line.**

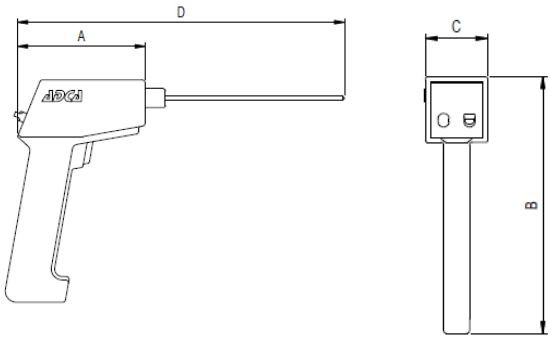



**Draining a water pocket in outdoor plants, this installation also prevents freezing.**

# ULTRASONIC TRAP TESTER
# UTT – 100

The UTT- Ultrasonic Trap Tester is a battery powered instrument that gives visible and audible indication of ultrasonic frequencies. It provides easy, accurate leak detection and mechanical inspection through advanced ultrasonic technology.
Before you begin testing, it is advisable to familiarize yourself with the basic components of your kit.

The UTT-100 consists of 3 main components:
1 – Pistol housing
2 – Contact (Stethoscope) module
3 – Headset
4 – Carrying case




| DIMENSIONS (mm) | | | | |
|---|---|---|---|---|
| *A* | *B* | *C* | *D* | *WEIGHT Kgs* |
| 114 | 200 | 48 | 292 | 1 |

## SPECIFICATIONS

| | |
|---|---|
| Construction | Hand held ABS pistol type ultrasonic processor stainless steel, sensor enclosures |
| Circuitry | SMD/Solid state hybrid heterodyne receiver |
| Frequency response | 20-100 kHz (centered at 28-42 kHz) |
| Indicator | 10 segment LED Bar Graph (red) |
| Sensitivity selection | 8 position precision attenuation |
| Power | 9 volt alkaline battery |
| Low battery voltage indicator | LED |
| Headset | Noise isolating type:double headset wired monophonic. Impedance: 16ohms. Over 23 dB noise attenuation. Meets or exceeds ANSI specifications and OSHA standards. |
| Transmitter | Patented warble tone transmission |
| Response time | 300 m/sec |
| Ambient operating temperature range | 0° - 50°C |
| Relative humidity | 10 - 95% non-condensing at up to 30°C |
| Storage temperature | -18° to 54° C |
| Stethoscope (contact) module | Stainless steel plug-in type with 140 mm stainless steel waveguide |
| Carrying case | Nylon Cordura soft carrying case with die cut foam |
| Warranty | One year, parts/labour, excluding abuse (details available on request) |