

## INVERTED BUCKET STEAM TRAPS IB36S



### DESCRIPTION

The IB36S is a series of robust and versatile inverted bucket steam traps manufactured in carbon steel.

These steam traps operate intermittently, and are suitable for use with low to high pressure saturated or superheated steam.

Typical applications include drip points, steam tracing lines, dryers, chemical and laundry equipment.

### MAIN FEATURES

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

**OPTIONS:** Cover connection with plug (mandatory if any of the below options are considered).  
 BDV – Blowdown valve.  
 AFZ – Anti-freeze device.

**USE:** Saturated and superheated steam.

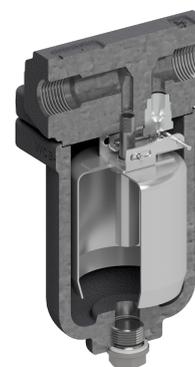
**AVAILABLE MODELS:** IB36S-5, 10, 15, 30 and 40 – carbon steel.

**SIZES:** 1/2" to 1"; DN 15 to DN 25.

**CONNECTIONS:** Female threaded ISO 7 Rp or NPT.  
 Flanged EN 1092-1 PN 40.  
 Flanged ASME B16.5 Class 150 or 300.  
 Socket weld (SW) ASME B16.11.  
 Butt weld (BW) ASME B16.25 on request.

**INSTALLATION:** Horizontal installation.  
 See IMI – Installation and maintenance instructions.

**MAX. ΔP:** IB36S-5 – 5 bar  
 IB36S-10 – 10 bar  
 IB36S-15 – 15 bar  
 IB36S-30 – 30 bar  
 IB36S-40 – 40 bar



| BODY LIMITING CONDITIONS                  |                 |                      |              |
|---|-----------------|----------------------|--------------|
| FLANGED CLASS 300 / THREADED / BW / SW ** | FLANGED PN 40 * | FLANGED CLASS 150 ** | RELAT. TEMP. |
| ALLOW. PRESS.                             | ALLOW. PRESS.   | ALLOW. PRESS.        |              |
| 50 bar                                    | 40 bar          | 19,3 bar             | 50 °C        |
| 46,3 bar                                  | 37,1 bar        | 17,7 bar             | 100 °C       |
| 43,9 bar                                  | 33,3 bar ***    | 14 bar ***           | 200 °C       |
| 41,6 bar ***                              | 30,4 bar        | 12,1 bar             | 250 °C       |
| 38,9 bar                                  | 27,6 bar        | 10,2 bar             | 300 °C       |
| 34,6 bar                                  | 23,8 bar        | 6,5 bar              | 400 °C       |

\* According to EN 1092-1:2018.

\*\* According to EN 1759-1:2004.

\*\*\* PMO – Maximum operating pressure.

TMO – Maximum operating temperature: 400 °C.

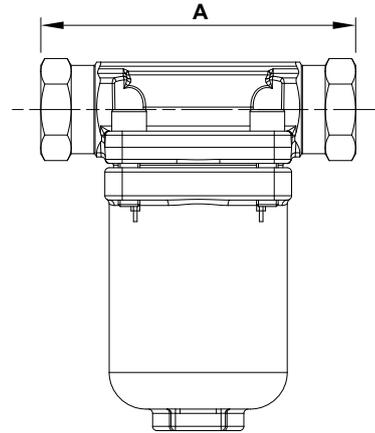
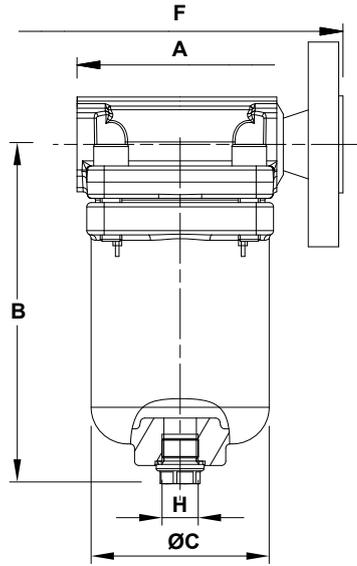
Body limiting conditions Class 300 or below, depending on the type of connection adopted. Rating Class 300 for threaded, SW and BW versions.

#### CE MARKING – GROUP 2 (PED – European Directive)

| PN 40                    | Category |
|--------------------------|----------|
| 1/2" to 1" – DN 15 to 25 | SEP      |

#### FLOW RATE CAPACITY (kg/h)

| MODEL    | SIZE                     | DIFFERENTIAL PRESSURE (bar) |     |     |     |     |     |     |     |     |     |     |     |     |     |   |
|----------|--------------------------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
|          |                          | 1                           | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 15  | 20  | 30  | 40  |   |
| IB36S-5  | 1/2" to 1" – DN 15 to 25 | 290                         | 400 | 495 | 550 | 610 | –   | –   | –   | –   | –   | –   | –   | –   | –   | – |
| IB36S-10 | 1/2" to 1" – DN 15 to 25 | 225                         | 300 | 350 | 395 | 420 | 470 | 490 | 520 | 540 | 560 | –   | –   | –   | –   | – |
| IB36S-15 | 1/2" to 1" – DN 15 to 25 | 190                         | 255 | 295 | 330 | 370 | 390 | 410 | 445 | 465 | 490 | 520 | –   | –   | –   | – |
| IB36S-30 | 1/2" to 1" – DN 15 to 25 | 130                         | 180 | 210 | 225 | 265 | 285 | 300 | 315 | 340 | 355 | 415 | 450 | 480 | –   | – |
| IB36S-40 | 1/2" to 1" – DN 15 to 25 | 90                          | 120 | 135 | 155 | 165 | 185 | 205 | 220 | 230 | 245 | 290 | 320 | 370 | 400 | – |



Only for 1" threaded version  
(with welded coupling)

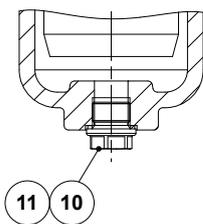
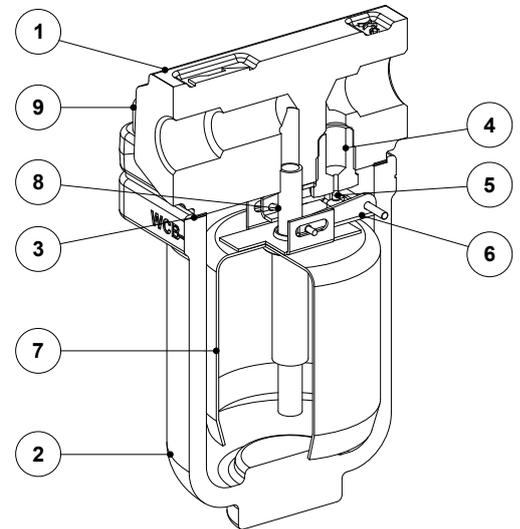
| DIMENSIONS (mm) |          |     |    |      |             |    |             |     |             |     |             |     |             |
|-----------------|----------|-----|----|------|-------------|----|-------------|-----|-------------|-----|-------------|-----|-------------|
| SIZE            | THREADED |     |    |      | SW          |    | PN 40       |     | CLASS 150   |     | CLASS 300   |     |             |
|                 | A        | B   | ØC | H *  | WEIGHT (kg) | A  | WEIGHT (kg) | F   | WEIGHT (kg) | F   | WEIGHT (kg) | F   | WEIGHT (kg) |
| 1/2" – DN 15    | 95       | 153 | 82 | 3/8" | 3,9         | 95 | 3,9         | 150 | 5,4         | 150 | 4,8         | 150 | 5,3         |
| 3/4" – DN 20    | 95       | 153 | 82 | 3/8" | 3,8         | 95 | 3,8         | 150 | 5,9         | 150 | 5,2         | 150 | 6,2         |
| 1" – DN 25      | 145 **   | 153 | 82 | 3/8" | 4           | 95 | 3,8         | 160 | 6,3         | 160 | 5,7         | 160 | 6,8         |

\* As standard, in versions with EN flanges or female Rp threads, this connection is female threaded ISO 7 Rp. In versions with ASME flanges, female NPT threads or SW, this connection is female threaded NPT.

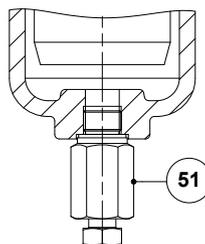
\*\* With welded coupling.

| MATERIALS |                    |                                       |
|-----------|--------------------|---------------------------------------|
| POS. N°   | DESIGNATION        | MATERIAL                              |
| 1         | Body               | P250GH / 1.0460                       |
| 2         | Cover              | A216 WCB / 1.0619                     |
| 3         | * Gasket           | Stainless steel / Graphite            |
| 4         | * Seat             | AISI 440C / 1.4125                    |
| 5         | * Valve            | AISI 420 / 1.4021                     |
| 6         | * Lever            | AISI 304 / 1.4301                     |
| 7         | * Bucket           | AISI 304 / 1.4301                     |
| 8         | Inlet tube         | AISI 316L / 1.4404                    |
| 9         | Bolts              | ASTM A193 Gr. B7                      |
| 10        | Plug               | AISI 316 / 1.4401                     |
| 11        | ** Washer          | Copper; AISI 304 / 1.4301             |
| 51        | Blowdown valve     | AISI 303 / 1.4305; AISI 316L / 1.4404 |
| 61        | Anti-freeze device | AISI 303 / 1.4305; AISI 316L / 1.4404 |

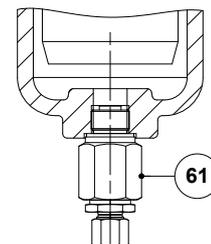
\* Available spare parts; \*\* Not applicable in NPT version.



Cover connection with plug



BDV - Blowdown valve  
(Manual)



AFZ - Anti-freeze device  
(Automatic)