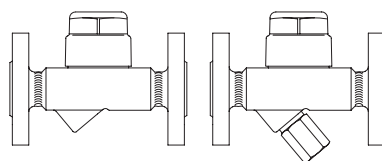


## Thermostatic steam trap

### Thermostatic steam trap

#### ANSI150 / 300

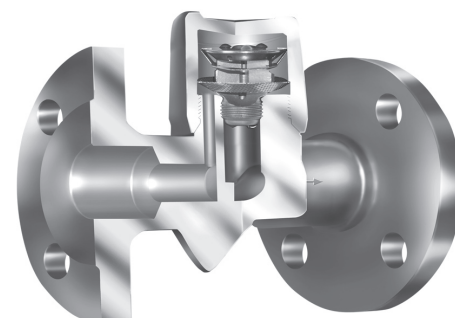
- with flanges (Fig. 610/612....1)
- with screwed sockets (Fig. 610/612....2)
- with socket weld ends (Fig. 610/612....3)
- with butt weld ends (Fig. 610/612....4)



Forged steel  
Stainless steel

**Fig. 610/612 (Y)**

Page 2



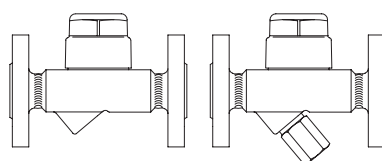
**Fig. 610....1**

### Thermostatic steam trap

#### With seat for higher flow capacity than Fig. 610/612

#### ANSI150 / 300

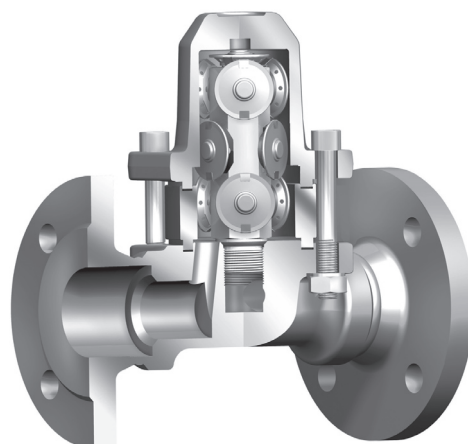
- with flanges (Fig. 611/613....1)
- with screwed sockets (Fig. 611/613....2)
- with socket weld ends (Fig. 611/613....3)
- with butt weld ends (Fig. 611/613....4)



Forged steel  
Stainless steel

**Fig. 611/613 (Y)**

Page 4



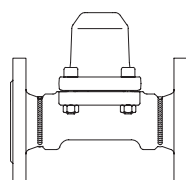
**Fig. 616....1....10K2**

### Thermostatic steam trap

#### With multi capsule for very high flow capacity

#### ANSI150 / 300

- with flanges (Fig. 616....1)
- with screwed sockets (Fig. 616....2)
- with socket weld ends (Fig. 616....3)
- with butt weld ends (Fig. 616....4)



Forged steel

**Fig. 616**

Page 6

#### Features:

- For discharging of slight to highly sub-cooled condensate
- Automatic air-venting during start up and operation of the plant
- High sensitivity
- Exact control characteristic
- Robust and resistant to water-hammer
- Integrated non return protection (Fig. 610/612; 611/613 (not at controller R5))
- Constructions:
  - With inside strainer
  - with outside strainer - Fig. 612 / 613 (Y)
- Optimized design for quick installation (except Fig. 616)
- Gasket-free sealing of the screwed cap (NPS 1/2 -1)
- Installation in any position (except cover/screwed cap downwards)
- Available types of capsule (sub-cooling from 5K to 40K)
- Pressure test acc. to API 598
- CRN approved

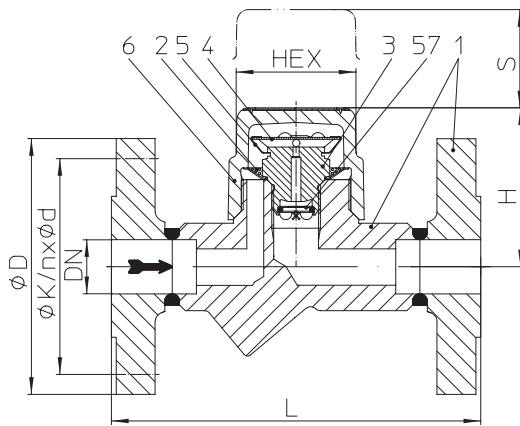
**Thermostatic steam trap (Forged steel, Stainless steel)**


Fig. 610....1 with flanges

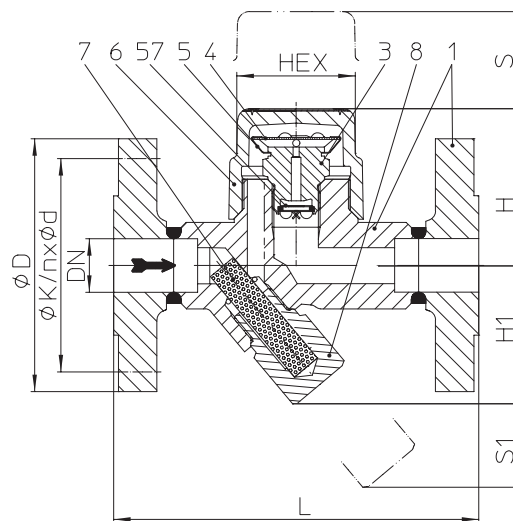
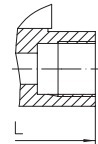
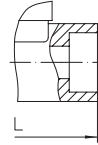
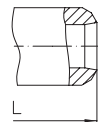


Fig. 612....1 with flanges


 Fig. 610/612....2  
with screwed sockets

 Fig. 610/612....3  
with socket weld ends

 Fig. 610/612....4  
with butt weld ends

| Figure               | Nominal pressure | Material   | NPS       | Operating pressure PS | Inlet temperature TS | allowable differential pressure ΔPMX | for controller |
|----------------------|------------------|------------|-----------|-----------------------|----------------------|--------------------------------------|----------------|
| 42.610<br>42.612 (Y) | ANSI150          | SA105      | 1/2" - 1" | 13 bar                | 225 °C               | 22 bar<br>5 bar                      | R22<br>R5      |
| 45.610<br>45.612 (Y) | ANSI300          | SA105      | 1/2" - 1" | 5,5 bar               | 427 °C               |                                      |                |
| 52.610<br>52.612 (Y) | ANSI150          | SA182 F321 | 1/2" - 1" | 22 bar                | 427 °C               |                                      |                |
| 55.610<br>55.612 (Y) | ANSI300          | SA182 F321 | 1/2" - 1" | 13 bar                | 225 °C               |                                      |                |
|                      |                  |            |           | 5 bar                 | 441 °C               |                                      |                |
|                      |                  |            |           | 2,4 bar               | 510 °C               |                                      |                |
|                      |                  |            |           | 22 bar                | 510 °C               |                                      |                |

 DIN-Constructions refer to data sheet CONA<sup>®</sup>M

**Types of connection**

Other types of connection on request.

- Flanges ....1 acc. to ASME B16.5
- Screwed sockets ....2 NPT thread acc. to ANSI B1.20.1 or Rp thread acc. to DIN EN 10226-1
- Socket weld ends ....3 acc. to ASME B16.11
- Butt weld ends ....4 ASME B16.25 (Note restriction on operating pressure / inlet temperature depending to design!)

**Features**

- Thermostatic steam trap with noncorrosive and robust water hammer proofed capsule
- Non return protection (not at controller R5)
- With inside strainer - Fig. 610 / with outside strainer - Fig. 612 (Y)
- Installation in any position, optimal filter effect at horizontal installation
- Optimized design for quick installation
- Maintenance simplified due to screwed cap without sealing

**Capsule**

(chooseable for operating range)

- Capsule No. 1 for condensate discharge at boiling temperature - applicable up to 5 bar inlet pressure
- Capsule No. 2 for condensate sub-cooling about approx. 10K (Standard)
- Capsule No. 3 for condensate sub-cooling about approx. 30K
- Capsule No. 4 for condensate sub-cooling about approx. 40K - applicable up to 16 bar inlet pressure, especially suitable for tracing systems with low and medium pressure steam

**Options**

(Design refer to page 5)

- Outside strainer with blow down valve (Pos. 46)
- Ball valve for blow down (pos. 56) with internal strainer (Observe operating and installation instructions!)

| Types of connection                                    |      | Flanges |     |     | Screwed sockets<br>Socket weld ends |     |     | Butt weld ends |     |     |
|--------------------------------------------------------|------|---------|-----|-----|-------------------------------------|-----|-----|----------------|-----|-----|
| NPS                                                    |      | 1/2     | 3/4 | 1   | 1/2                                 | 3/4 | 1   | 1/2            | 3/4 | 1   |
| Face-to-face acc. to data sheet resp. customer request |      |         |     |     |                                     |     |     |                |     |     |
| L                                                      | (mm) | 150     | 150 | 160 | 95                                  | 95  | 95  | 250            | 250 | 250 |
| Dimensions                                             |      |         |     |     |                                     |     |     |                |     |     |
| H                                                      | (mm) | 65      | 65  | 65  | 65                                  | 65  | 74  | 65             | 65  | 65  |
| H1                                                     | (mm) | 62      | 62  | 62  | 62                                  | 62  | 55  | 62             | 62  | 62  |
| S                                                      | (mm) | 40      | 40  | 40  | 40                                  | 40  | 40  | 40             | 40  | 40  |
| S1                                                     | (mm) | 24      | 24  | 24  | 24                                  | 24  | 24  | 24             | 24  | 24  |
| HEX                                                    | (mm) | 50      | 50  | 50  | 50                                  | 50  | 50  | 50             | 50  | 50  |
| Weights                                                |      |         |     |     |                                     |     |     |                |     |     |
| (approx.)                                              | (kg) | 2,7     | 3,3 | 3,7 | 1,4                                 | 1,3 | 1,8 | 1,8            | 1,9 | 2   |

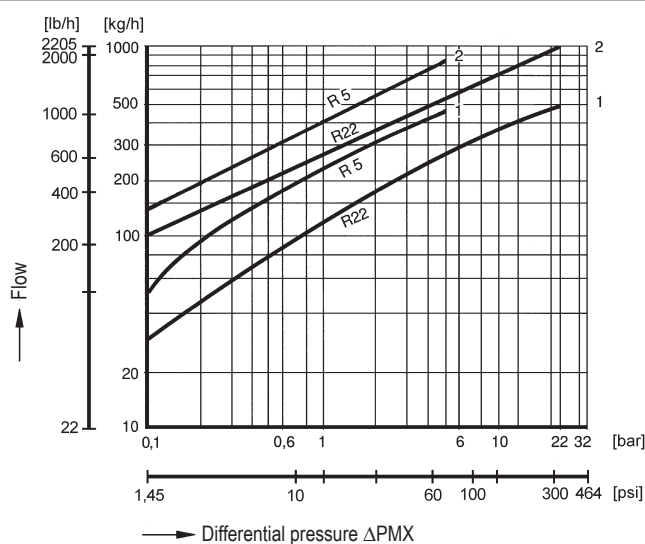
| Parts         |       |                                   |                                |                             |
|---------------|-------|-----------------------------------|--------------------------------|-----------------------------|
| Pos.          | Sp.p. | Description                       | Fig. 42.610/612; 45.610/45.612 | Fig. 52.610/612; 55.610/612 |
| 1             |       | Body                              | SA105                          | SA182F321                   |
| 2             | x     | Strainer                          | SA240Gr.304                    |                             |
| 3             | x     | Seat                              | AISI303                        |                             |
| 4             | x     | Capsule (Diaphragm / Capsule)     | Hastelloy / SA240Gr.304        |                             |
| 5             | x     | Spring actuated clip              | AISI301                        |                             |
| 6             |       | Cap                               | SA105                          | SA182F321                   |
| 7             | x     | Strainer                          | SA240Gr.304                    |                             |
| 8             | x     | Strainer plug                     | SA182F321                      |                             |
| 46            | x     | Blow down valve, cpl.             | SA182F321                      |                             |
| 56            | x     | Ball valve for blow down (G 3/8") | SA351CF8M                      |                             |
| 57            |       | Non return protection             | SA240Gr.304                    |                             |
| L Spare parts |       |                                   |                                |                             |

Information / restriction of technical rules need to be observed!

Resistance and fitness must be verified (or contact the manufacturer for information).

Operating and installation instructions can be downloaded at [www.ari-armaturen.com](http://www.ari-armaturen.com).

### Capacity chart

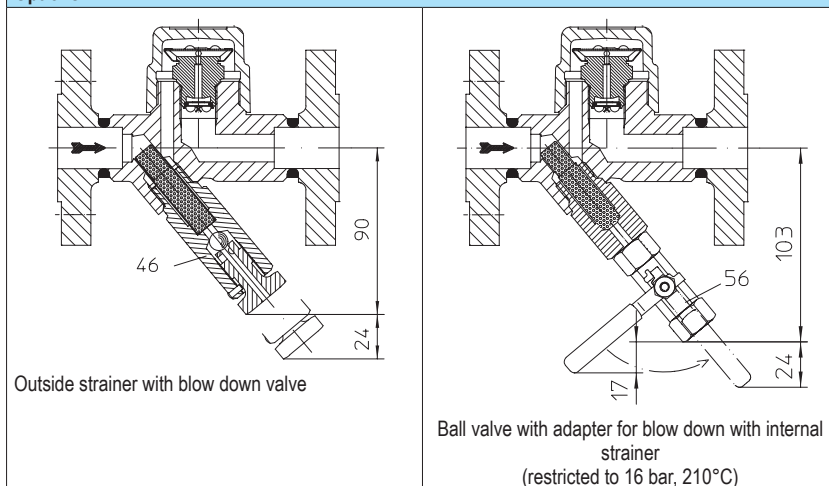


The capacity chart shows the maximum flow rates.

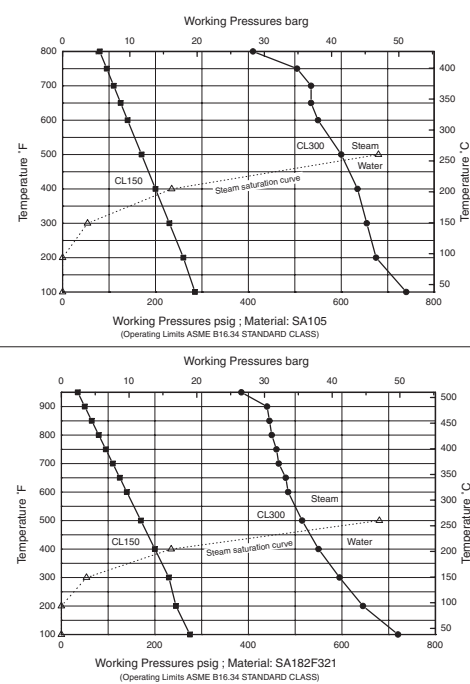
**Curve 1:** Maximum flow of hot condensate for capsule No. 1, 2, 3 and 4.

**Curve 2:** Maximum flow at cold condensate at about 68°F / 20°C.

### Options



### Druck-Temperatur-Diagramm



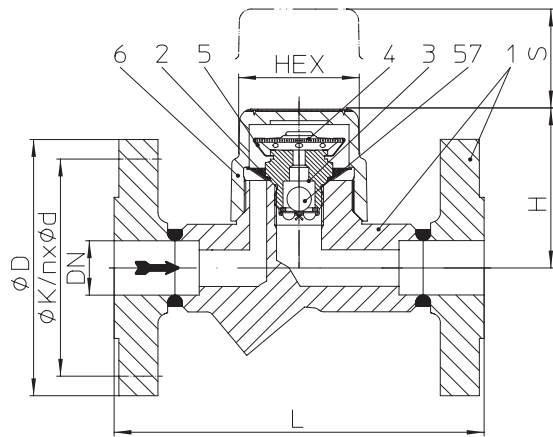
**Thermostatic steam trap for higher flow capacity (Forged steel, High temperature steel, Stainless steel)**


Fig. 611....1 with flanges

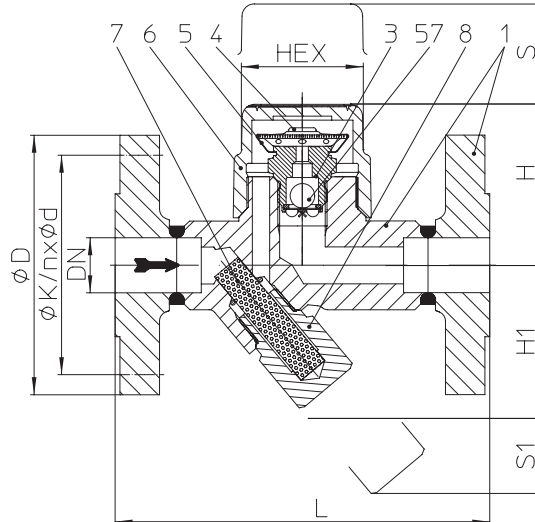
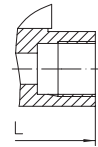
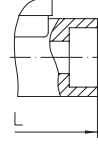
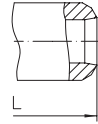


Fig. 613....1 with flanges


 Fig. 611/613....2  
with screwed sockets

 Fig. 611/613....3  
with socket weld ends

 Fig. 611/613....4  
with butt weld ends

| Figure               | Nominal pressure | Material   | NPS                    | Operating pressure PS | Inlet temperature TS | allowable differential pressure ΔPMX | for controller |
|----------------------|------------------|------------|------------------------|-----------------------|----------------------|--------------------------------------|----------------|
| 42.611<br>42.613 (Y) | ANSI150          | SA105      | 1/2" - 1" /<br>DN15-25 | 13 bar<br>5,5 bar     | 225 °C<br>427 °C     | 32 bar                               | R32            |
| 45.611<br>45.613 (Y) | ANSI300          | SA105      | 1/2" - 1" /<br>DN15-25 | 32 bar<br>28 bar      | 411 °C<br>427 °C     |                                      |                |
| 52.611<br>52.613 (Y) | ANSI150          | SA182 F321 | 1/2" - 1" /<br>DN15-25 | 13 bar<br>2,4 bar     | 225 °C<br>510 °C     |                                      |                |
| 55.611<br>55.613 (Y) | ANSI300          | SA182 F321 | 1/2" - 1" /<br>DN15-25 | 32 bar<br>27 bar      | 377 °C<br>510 °C     |                                      |                |

DIN-Constructions refer to data sheet CONA®M

| Types of connection                                                                                                                                                                                                                                                                                                                                                                           |  |  |  | Other types of connection on request.                                                                                                                                                                                                                |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <ul style="list-style-type: none"> <li>Flanges ....1 _____ acc. to ASME B16.5</li> <li>Screwed sockets ....2 _____ NPT thread acc. to ANSI B1.20.1 or Rp thread acc. to DIN EN 10226-1</li> <li>Socket weld ends ....3 _____ acc. to ASME B16.11</li> <li>Butt weld ends ....4 _____ ASME B16.25 (Note restriction on operating pressure / inlet temperature depending to design!)</li> </ul> |  |  |  |                                                                                                                                                                                                                                                      |  |
| Features                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                                                                                                                                                                                                                                                      |  |
| <ul style="list-style-type: none"> <li>Thermostatic steam trap with noncorrosive and robust water hammer proofed capsule</li> <li><b>With seat for higher flow capacity than Fig. 610/612</b></li> <li>Non return protection</li> <li>With inside strainer - Fig. 611 / with outside strainer - Fig. 613 (Y)</li> </ul>                                                                       |  |  |  | <ul style="list-style-type: none"> <li>Installation in any position, optimal filter effect at horizontal installation</li> <li>Optimized design for quick installation</li> <li>Maintenance simplified due to screwed cap without sealing</li> </ul> |  |
| Capsule                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  | (chooseable for operating range)                                                                                                                                                                                                                     |  |
| <ul style="list-style-type: none"> <li>Capsule No. 1 _____ for condensate discharge at boiling temperature - applicable up to 5 bar inlet pressure</li> <li>Capsule No. 2 _____ for condensate sub-cooling about approx. 10K (Standard)</li> <li>Capsule No. 3 _____ for condensate sub-cooling about approx. 30K</li> </ul>                                                                  |  |  |  |                                                                                                                                                                                                                                                      |  |
| Options                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  | (Design refer to page 5)                                                                                                                                                                                                                             |  |
| <ul style="list-style-type: none"> <li>Outside strainer with blow down valve (Pos. 46)</li> <li>Ball valve for blow down (pos. 56) with internal strainer (Observe operating and installation instructions!)</li> </ul>                                                                                                                                                                       |  |  |  |                                                                                                                                                                                                                                                      |  |

| Types of connection                                    |      | Flanges |     |     | Screwed sockets<br>Socket weld ends |     |     | Butt weld ends |     |     |
|--------------------------------------------------------|------|---------|-----|-----|-------------------------------------|-----|-----|----------------|-----|-----|
| NPS                                                    |      | 1/2     | 3/4 | 1   | 1/2                                 | 3/4 | 1   | 1/2            | 3/4 | 1   |
| Face-to-face acc. to data sheet resp. customer request |      |         |     |     |                                     |     |     |                |     |     |
| L                                                      | (mm) | 150     | 150 | 160 | 95                                  | 95  | 95  | 250            | 250 | 250 |
| Dimensions                                             |      |         |     |     |                                     |     |     |                |     |     |
| Standard-flange dimensions refer to page 9             |      |         |     |     |                                     |     |     |                |     |     |
| H                                                      | (mm) | 65      | 65  | 65  | 65                                  | 65  | 74  | 65             | 65  | 65  |
| H1                                                     | (mm) | 62      | 62  | 62  | 62                                  | 62  | 55  | 62             | 62  | 62  |
| S                                                      | (mm) | 40      | 40  | 40  | 40                                  | 40  | 40  | 40             | 40  | 40  |
| S1                                                     | (mm) | 24      | 24  | 24  | 24                                  | 24  | 24  | 24             | 24  | 24  |
| HEX                                                    | (mm) | 50      | 50  | 50  | 50                                  | 50  | 50  | 50             | 50  | 50  |
| Weights                                                |      |         |     |     |                                     |     |     |                |     |     |
| (approx.)                                              | (kg) | 2,7     | 3,3 | 3,7 | 1,4                                 | 1,3 | 1,8 | 1,8            | 1,9 | 2   |

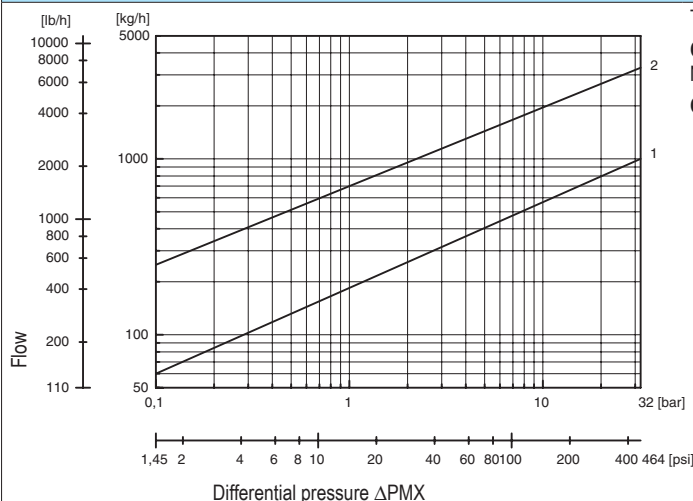
| Parts         |       |                                     |                                |                             |
|---------------|-------|-------------------------------------|--------------------------------|-----------------------------|
| Pos.          | Sp.p. | Description                         | Fig. 42.611/613; 45.611/45.613 | Fig. 52.611/613; 55.611/613 |
| 1             |       | Body                                | SA105                          | SA182F321                   |
| 2             | x     | Strainer *                          | SA240Gr.304                    |                             |
| 3             | x     | Seat *                              | AISI303                        |                             |
| 4             | x     | Capsule B (Diaphragm / Capsule) *   | Hastelloy / SA240Gr.304        |                             |
| 5             | x     | Spring actuated clip *              | AISI301                        |                             |
| 6             |       | Cap                                 | SA105                          | SA182F321                   |
| 7             | x     | Strainer                            | SA240Gr.304                    |                             |
| 8             | x     | Strainer plug *                     | SA182F321                      |                             |
| 46            | x     | Blow down valve, cpl. *             | SA182F321                      |                             |
| 56            | x     | Ball valve for blow down (G 3/8") * | SA351CF8M                      |                             |
| 57            |       | Non return protection               | SA240Gr.304                    |                             |
| L Spare parts |       |                                     |                                |                             |

Information / restriction of technical rules need to be observed!

Resistance and fitness must be verified (or contact the manufacturer for information).

Operating and installation instructions can be downloaded at [www.ari-armaturen.com](http://www.ari-armaturen.com).

### Capacity chart

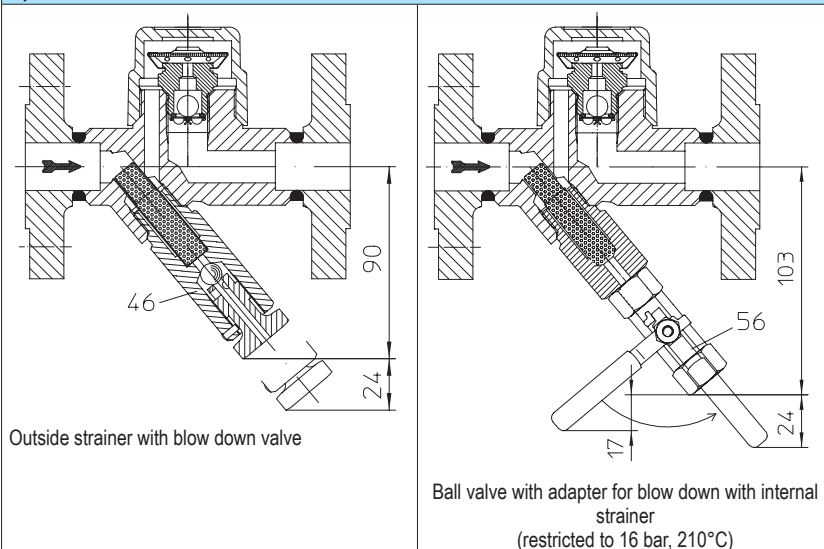


The capacity chart shows the maximum flow rates.

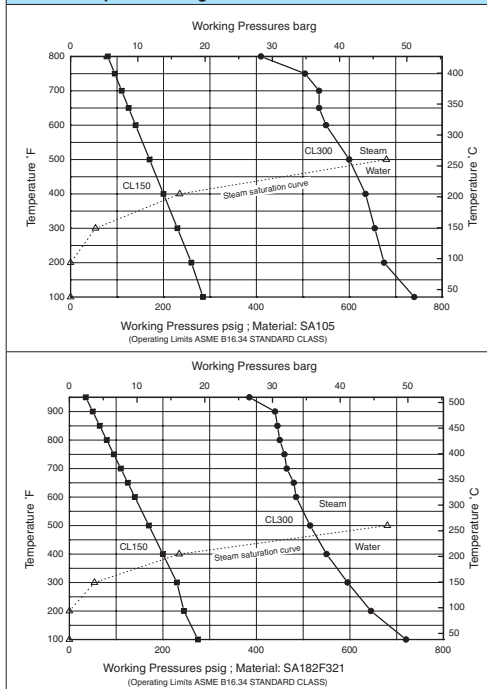
**Curve 1.** The capacity chart shows the maximum flow of hot condensate for capsule No. 1, 2 and 3.

**Curve 2.** Maximum flow at cold condensate at about 20°C.

### Options



### Druck-Temperatur-Diagramm



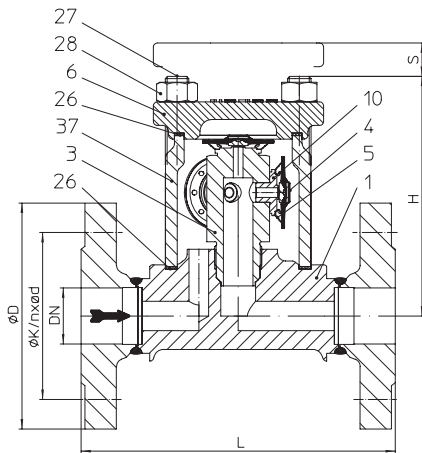
**Thermostatic steam trap with multi capsule for very high flow capacity (Forged steel)**


Fig. 616....1....4K2 (NPS 1")  
with 4 capsules, with flanges

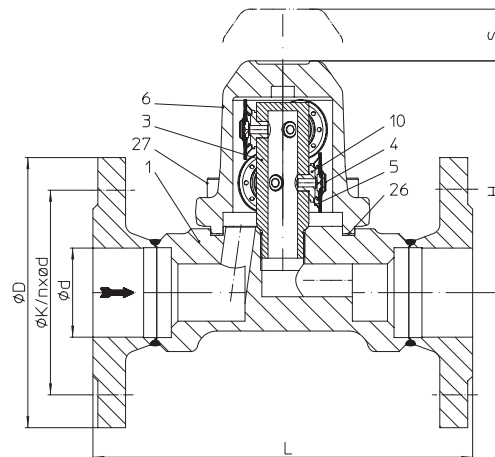


Fig. 616....1....6K2 (NPS 1 1/2" - 2")  
with 6 capsules, with flanges

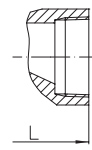


Fig. 616....2  
with screwed sockets

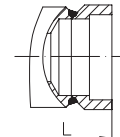


Fig. 616....3  
with socket weld ends

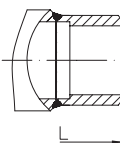


Fig. 616....4  
with butt weld ends

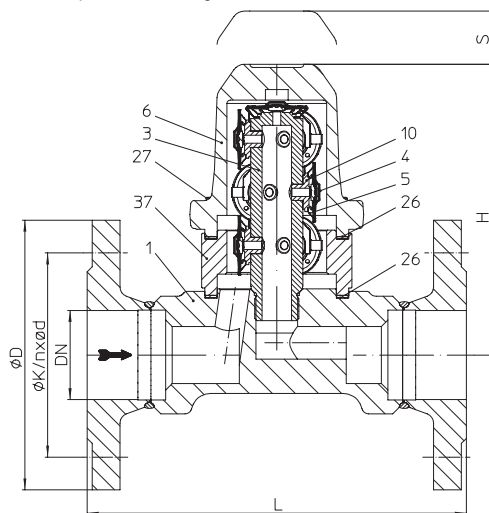


Fig. 616....1....10K2 (NPS 1 1/2" - 2")  
with 10 capsules, with flanges

| Figure                             | Nominal pressure | Material | NPS         | Operating pressure PS | Inlet temperature TS | allowable differential pressure $\Delta PMX$ | for controller |
|------------------------------------|------------------|----------|-------------|-----------------------|----------------------|----------------------------------------------|----------------|
| 42.616....4K2<br>with 4 capsules   | ANSI150          | SA105    | 1"          | 13 bar                | 225 °C               | 32 bar                                       | R32            |
| 45.616....4K2<br>with 4 capsules   | ANSI300          | SA105    | 1"          | 5,5 bar               | 427 °C               |                                              |                |
| 42.616....6K2<br>with 6 capsules   | ANSI150          | SA105    | 1 1/2" - 2" | 32 bar                | 411 °C               |                                              |                |
| 45.616....6K2<br>with 6 capsules   | ANSI300          | SA105    | 1 1/2" - 2" | 28 bar                | 427 °C               |                                              |                |
| 42.616....10K2<br>with 10 capsules | ANSI150          | SA105    | 1 1/2" - 2" | 13 bar                | 225 °C               |                                              |                |
| 45.616....10K2 with 10 capsules    | ANSI300          | SA105    | 1 1/2" - 2" | 5,5 bar               | 427 °C               |                                              |                |
|                                    |                  |          |             | 32 bar                | 411 °C               |                                              |                |
|                                    |                  |          |             | 28 bar                | 427 °C               |                                              |                |

We recommend a ARI Strainer Fig. 050 in front of the steam trap.

<sup>1)</sup> SA182F321 on request

DIN/EN-Constructions refer to data sheet CONA®M

**Types of connection**

Other types of connection on request.

- Flanges ....1 \_\_\_\_\_ acc. to ASME B16.5
- Screwed sockets ....2 \_\_\_\_\_ NPT thread acc. to ANSI B1.20.1 or Rp thread acc. to DIN EN 10226-1
- Socket weld ends ....3 \_\_\_\_\_ acc. to ASME B16.11
- Butt weld ends ....4 \_\_\_\_\_ ASME B16.25 (Note restriction on operating pressure / inlet temperature depending to design!)

**Features**

- Thermostatic steam trap with noncorrosive and robust water hammer proofed capsule
- with multi capsule for discharge of very high flow capacity
- Installation in any position, except cover downwards

**Capsule**

- Capsule No. 2 \_\_\_\_\_ for condensate sub-cooling about approx. 10K (Standard)

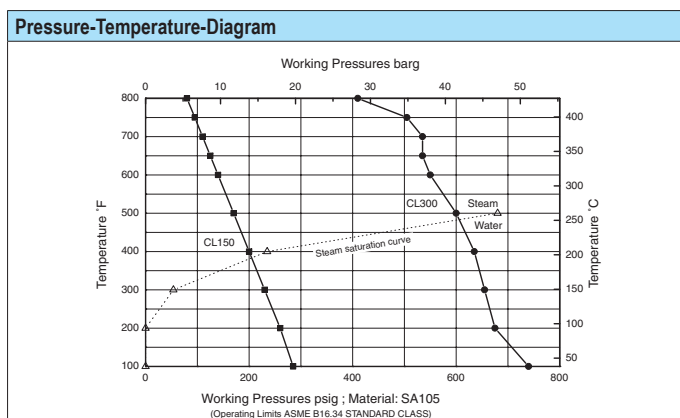
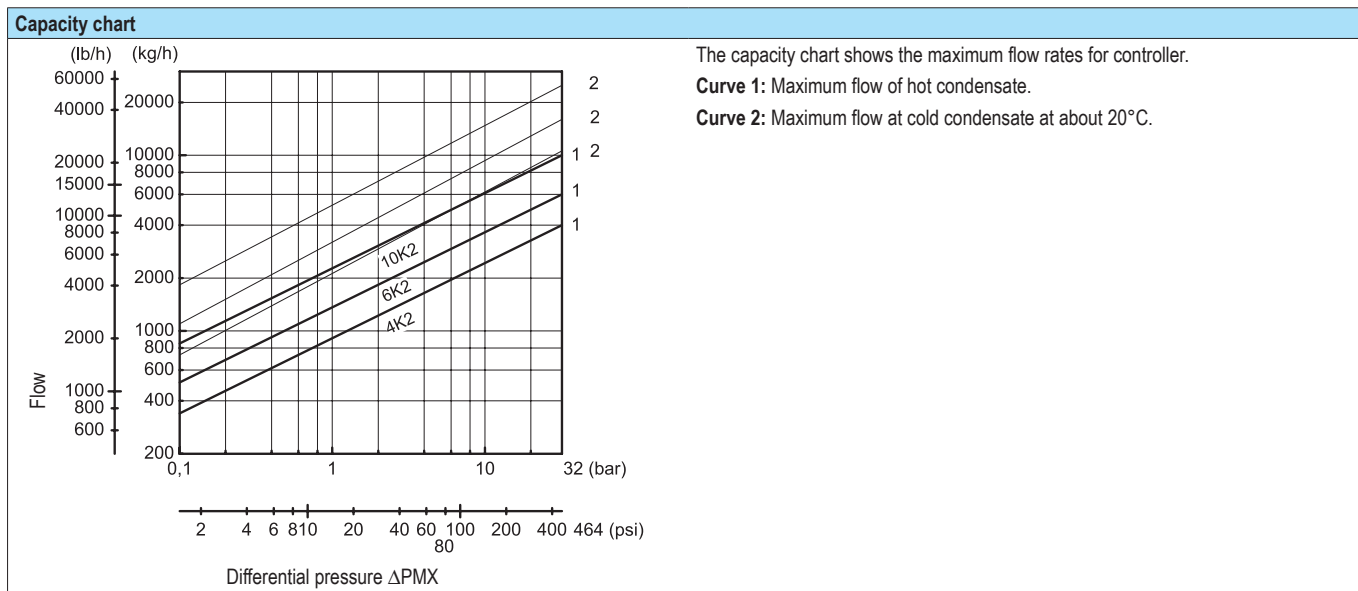
| Types of connection                                              |             | Flanges |       |      | Screwed sockets<br>Socket weld ends |            |   | Butt weld ends |       |   |
|------------------------------------------------------------------|-------------|---------|-------|------|-------------------------------------|------------|---|----------------|-------|---|
| NPS                                                              |             | 1       | 1 1/2 | 2    | 1                                   | 1 1/2      | 2 | 1              | 1 1/2 | 2 |
| Face-to-face acc. to data sheet resp. customer request           |             |         |       |      |                                     |            |   |                |       |   |
| L                                                                | (mm)        | 160     | 230   | 230  | on request                          |            |   |                |       |   |
| Dimensions <span>Standard-flange dimensions refer to page</span> |             |         |       |      |                                     |            |   |                |       |   |
| H                                                                | 4 capsules  | (mm)    | 125   | --   | --                                  | on request |   |                |       |   |
|                                                                  | 6 capsules  | (mm)    | --    | 144  | 144                                 |            |   |                |       |   |
|                                                                  | 10 capsules | (mm)    | --    | 185  | 185                                 |            |   |                |       |   |
| S                                                                | (mm)        | 65      | 90    | 90   |                                     |            |   |                |       |   |
| Weights                                                          |             |         |       |      |                                     |            |   |                |       |   |
| (approx.)                                                        | (ka)        | 6.5     | 11.3  | 12.1 | on request                          |            |   |                |       |   |

| Parts         |       |                               |                                           |                                          |                                            |
|---------------|-------|-------------------------------|-------------------------------------------|------------------------------------------|--------------------------------------------|
| Pos.          | Sp.p. | Description                   | Fig. 42./45.616...4K2,<br>with 4 capsules | Fig. 42./45.616...6K2<br>with 6 capsules | Fig. 42./45.616...10K2<br>with 10 capsules |
| 1             |       | Body                          | SA105                                     |                                          |                                            |
| 3             | x     | Seat                          | AISI303                                   |                                          |                                            |
| 4             | x     | Capsule (Diaphragm / Capsule) | SA240Gr.304                               |                                          |                                            |
| 5             | x     | Spring actuated clip          | AISI301                                   |                                          |                                            |
| 6             |       | Cover                         | SA105                                     |                                          |                                            |
| 26            | x     | Gasket                        | Graphite (CrNi laminated with graphite)   |                                          |                                            |
| 27            |       | Cheese head screw             | --                                        | SA193Gr.B16                              |                                            |
| 27            |       | Stud                          | SA194Gr.4                                 | --                                       |                                            |
| 28            |       | Hexagonal nut                 | SA194Gr.4                                 | SA194Gr.4                                |                                            |
| 37            |       | Intermediate flange           | --                                        |                                          | SA105                                      |
| L Spare parts |       |                               |                                           |                                          |                                            |

Information / restriction of technical rules need to be observed!

Resistance and fitness must be verified (or contact the manufacturer for information).

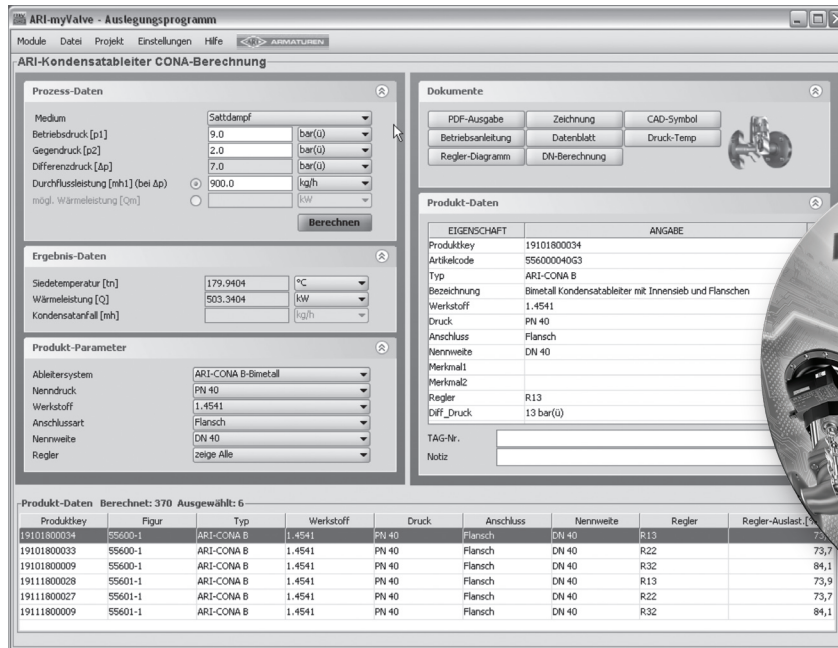
Operating and installation instructions can be downloaded at [www.ari-armaturen.com](http://www.ari-armaturen.com).





## myValve® - Ihr Valve Sizing-Program.

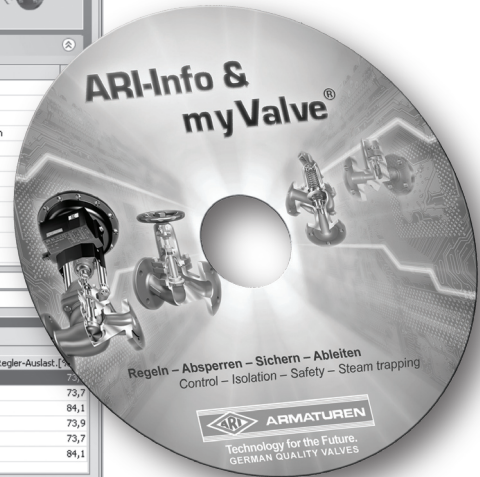
myValve is a powerful software tool that not only helps you size your system components; it also gives you instant access to all other data about the selected product, such as order information, spare parts drawings, operating instructions, data sheets, etc., whenever you need it.



| EIGENSCHAFT |                                                        | ANGABE |  |
|-------------|--------------------------------------------------------|--------|--|
| Produktkey  | 19101800034                                            |        |  |
| Artikelcode | 55600040G3                                             |        |  |
| Typ         | ARI-CONA B                                             |        |  |
| Bezeichnung | Bimetall Kondensatableiter mit Innensieb und Flanschen |        |  |
| Werkstoff   | 1.4541                                                 |        |  |
| Druck       | PN 40                                                  |        |  |
| Anschluss   | Flansch                                                |        |  |
| Nennweite   | DN 40                                                  |        |  |
| Merkmall1   |                                                        |        |  |
| Merkmall2   |                                                        |        |  |
| Regler      | R13                                                    |        |  |
| DIFF_Druck  | 13 bar(u)                                              |        |  |
| TAG-Nr.     |                                                        |        |  |
| Notiz       |                                                        |        |  |

| Produkt-Daten Berechnet: 370 Ausgewählt: 6 |         |            |           |       |           |           |        |                 |  |  |      |
|--------------------------------------------|---------|------------|-----------|-------|-----------|-----------|--------|-----------------|--|--|------|
| Produktkey                                 | Figur   | Typ        | Werkstoff | Druck | Anschluss | Nennweite | Regler | Regler-Auslast. |  |  |      |
| 19101800034                                | 55600-1 | ARI-CONA B | 1.4541    | PN 40 | Flansch   | DN 40     | R13    |                 |  |  | 73,7 |
| 19101800033                                | 55600-1 | ARI-CONA B | 1.4541    | PN 40 | Flansch   | DN 40     | R22    |                 |  |  | 73,7 |
| 19101800009                                | 55600-1 | ARI-CONA B | 1.4541    | PN 40 | Flansch   | DN 40     | R32    |                 |  |  | 84,1 |
| 19111800028                                | 55601-1 | ARI-CONA B | 1.4541    | PN 40 | Flansch   | DN 40     | R13    |                 |  |  | 73,9 |
| 19111800027                                | 55601-1 | ARI-CONA B | 1.4541    | PN 40 | Flansch   | DN 40     | R22    |                 |  |  | 73,7 |
| 19111800009                                | 55601-1 | ARI-CONA B | 1.4541    | PN 40 | Flansch   | DN 40     | R32    |                 |  |  | 84,1 |



### myValve - Valve Sizing-Program

#### Contents:

##### Module ARI-Steam trap CONA-Calculuation

- Sizing (calculation of steam trap systems with given flow capacity or heat capacity)
- Calculation of nominal diameter acc. to given pressure, condensate quantity, condensate sub-cooling and speed

#### Media:

- Steam (saturated and superheated)
- Compressed air

#### Special Features

- Project administration of the calculation and product data incl. spare part drawings concerning to project and tag number
- Direct output of calculation and product data in PDF format
- Product data could be taken for a direct order
- SI- and ANSI-units with direct conversion to another databank
- Settings with over pressure or absolute pressure
- All ARI products are integrated in one databank
- Direct access concerning to the product on data sheets, operating instructions, pressure-temperature-diagram and spare part drawings
- Operation in company networks possible (no complex installations on individually PC's necessary)
- Extensive catalogue extending over several product groups

#### System Requirements:

Windows operating systems, Linux, etc.



**Informations about pipe welding**
**Welding groove acc. to ASME B16.25**

The material used for ARI valves with butt weld ends are:

SA105  
SA182F321

**Hinweis:**

Note restriction on operating pressure / inlet temperature depending to design!

Due to our experience, we recommend to apply an electric welding process.

Because of the different material compositions and wall thickness of the steam traps and the pipe gas welding shall not be applied. Quenching cracks and coarse grain structure may develop.

On bimetallic steam traps face-to-face of 95 mm or less, the bimetallic controller has to be disassembled prior to welding. After the traps have cooled down to the ambient temperature the bimetallic controller shall be fitted again into the body.

Steam traps with socket-weld ends shall only be welded by arc welding (welding process 111 acc. to DIN EN 24063).

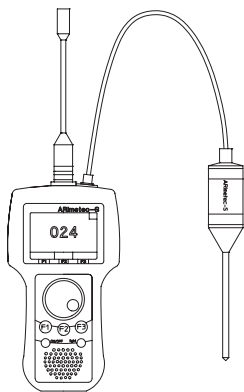
If during the time of warranty others than the manufacturer or by the manufacturer authorized persons are interfering in the product and/or the setting, the right of claim for warranty will lapse!

**Standard-flange dimensions acc. to ASME B16.5**

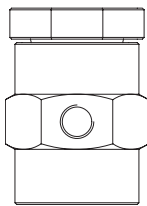
| NPS     |        |      | 1/2    | 3/4     | 1      | 1 1/4  | 1 1/2  | 2      |
|---------|--------|------|--------|---------|--------|--------|--------|--------|
| ANSI150 | ØD     | (mm) | 89     | 99      | 108    | 117    | 127    | 153    |
|         | ØK     | (mm) | 60     | 70      | 79     | 78     | 98     | 121    |
|         | n x Ød | (mm) | 4 x 16 | 4 x 16  | 4 x 16 | 4 x 16 | 4 x 16 | 4 x 19 |
| ANSI300 | ØD     | (mm) | 95     | 117     | 124    | 133    | 155    | 165    |
|         | ØK     | (mm) | 66,5   | 82,5    | 89     | 99     | 114    | 127    |
|         | n x Ød | (mm) | 4 x 16 | 1 4 x 9 | 4 x 19 | 4 x 19 | 4 x 22 | 8 x 19 |

Dimensions in inch  
Weights in lb  
1 bar  $\hat{=}$  10<sup>5</sup> Pa  $\hat{=}$  0,1 MPa  
1 bar  $\hat{=}$  14,5 psi  
1 inch  $\hat{=}$  25,4 mm

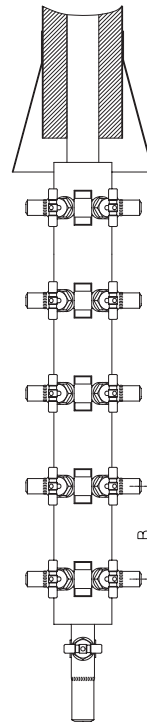
| Selection criteria:                                                                                                                                                  |                                                                                                                                                                        | Example for order data:                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Steam pressure</li> <li>• Back pressure</li> <li>• Quantity of condensate</li> <li>• Nominal diameter / pressure</li> </ul> | <ul style="list-style-type: none"> <li>• Type of connection</li> <li>• Controller</li> <li>• Material</li> <li>• Place of service or kind of steam consumer</li> </ul> | <b>Thermostatic steam trap CONA® M,</b><br><b>Fig. 610, ANSI300, NPS 1/2", SA105, Capsule-No. 2, with Flanges, Face-to-face dimension 150 mm</b> |



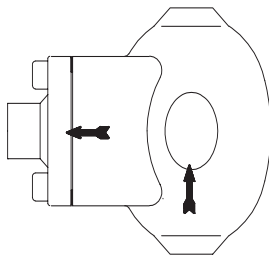
Multifunction tester **ARImetec®-S**



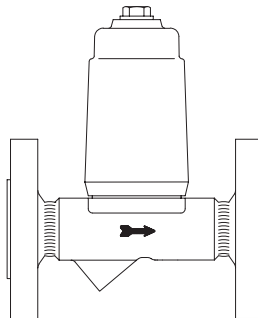
Vacuum breaker  
Fig. 655



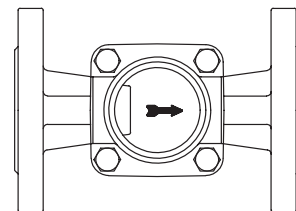
**CODI®S** with gland packing Fig. 671/672;  
**CODI®B** with bellows seal, maintenance-free Fig. 675/676



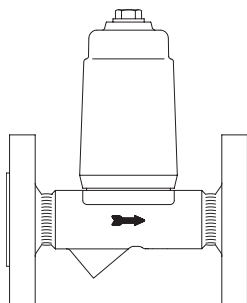
Automatic air vent for liquid systems  
Fig. 656



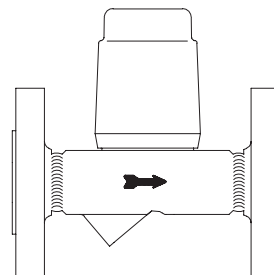
Condensate discharge temperature limiter  
Fig. 645/647



Flow indicator  
Fig. 660/661



Return temperature limiter  
Fig. 650



Liquid drainer  
Fig. 665

(Further informations about the accessories can be found in the appropriate data sheets.)