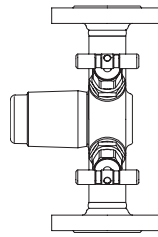


CONA® All-in-one - Steam trap station with integrated inlet and outlet valves

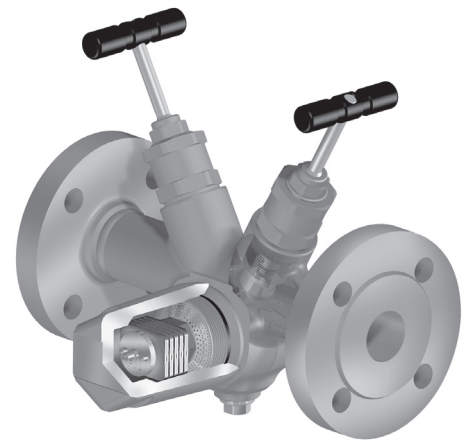
CONA®B All-in-one
Bimetallic steam trap
ANSI150 / 300

- with flanges (Fig. 60A....1)
- with screwed sockets (Fig. 60A....2)
- with socket weld ends (Fig. 60A....3)
- with butt weld ends (Fig. 60A....4)

Forged steel
Stainless steel
Fig. 60A



Page 2

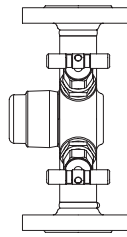


CONA®B All-in-one

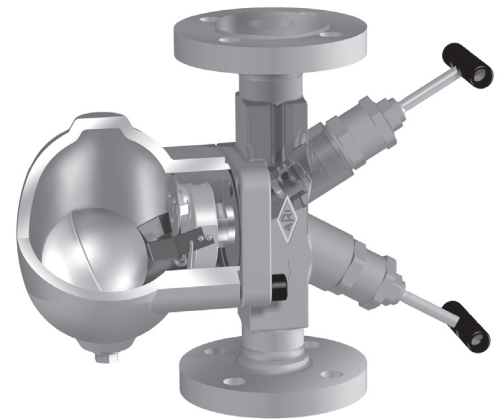
CONA®M All-in-one
Thermostatic steam trap
ANSI150 / 300

- with flanges (Fig. 61A....1)
- with screwed sockets (Fig. 61A....2)
- with socket weld ends (Fig. 61A....3)
- with butt weld ends (Fig. 61A....4)

Forged steel
Stainless steel
Fig. 61A



Page 4

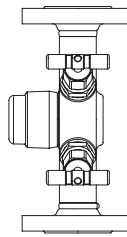


CONA®S All-in-one

CONA®TD All-in-one
Thermodynamic steam trap
ANSI150 / 300

- with flanges (Fig. 64A....1)
- with screwed sockets (Fig. 64A....2)
- with socket weld ends (Fig. 64A....3)
- with butt weld ends (Fig. 64A....4)

Forged steel
Stainless steel
Fig. 64A

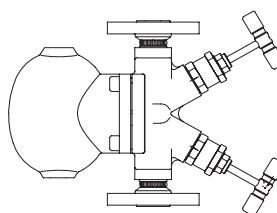


Page 6

CONA®SC All-in-one
Ball float steam trap
ANSI150 / 300

- with flanges (Fig. 63A....1)
- with screwed sockets (Fig. 63A....2)
- with socket weld ends (Fig. 63A....3)
- with butt weld ends (Fig. 63A....4)

Forged steel
Stainless steel
Fig. 63A



Page 10

Features:

- Robust and resistant to water-hammer
- Integrated non return protection
- Mounting position senkrecht or waagrecht
- The controller maybe changed without disturbing the pipe work
- Internal strainer
- Pressure test acc. to API 598

CONA®B/M/TD All-in-one:

- For discharging of slight to highly sub-cooled condensate
- Optimized design for quick installation
- Gasket-free sealing of the screwed cap

CONA®S All-in-one:

- Back pressure-free condensate discharge
- Rapid system start-up due to thermostatic airventing capsule

CONA® B All-in-one - Bimetallic steam trap with integrated inlet and outlet valves
(Forged steel, Stainless steel)

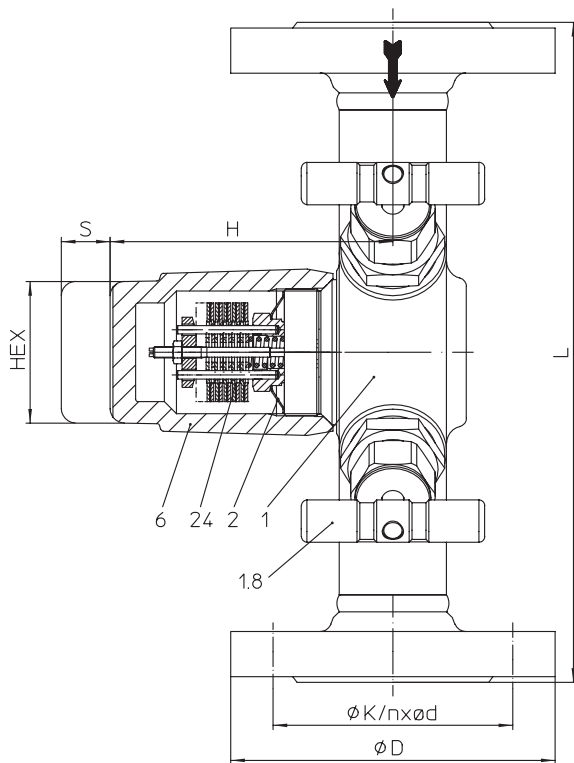


Fig. 60A....1 with flanges

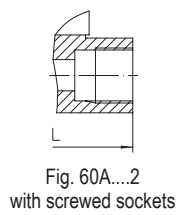


Fig. 60A....2 with screwed sockets

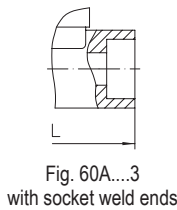


Fig. 60A....3 with socket weld ends

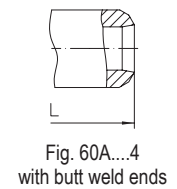
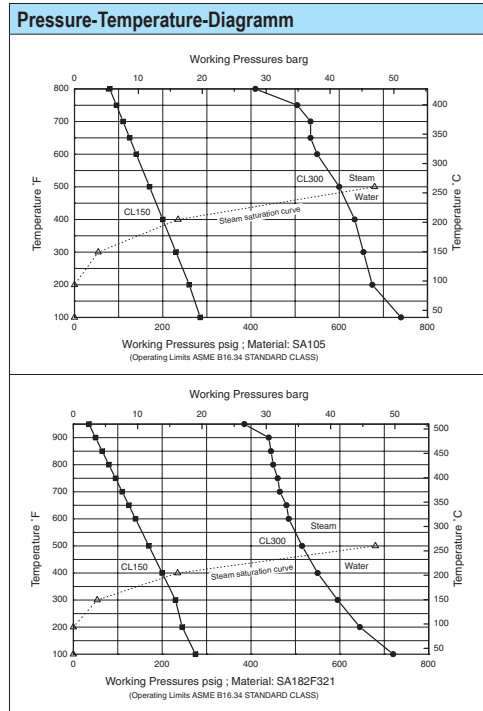


Fig. 60A....4 with butt weld ends



| Figure | Nominal pressure | Material | NPS | Operating pressure PS | Inlet temperature TS | allowable differential pressure ΔPMX | for controller |
|--------|------------------|-----------|-----------|-----------------------|----------------------|--------------------------------------|-------------------|
| 42.60A | ANSI150 | SA105 | 1/2" - 1" | 13 barg | 225 °C | 32 bar 22 bar 13 bar | R32 R22 R13 |
| | | | | 5,5 barg | 427 °C | | |
| 45.60A | ANSI300 | SA105 | 1/2" - 1" | 32 barg | 411 °C | | |
| | | | | 22 barg | 427 °C | | |
| 52.60A | ANSI150 | SA182F321 | 1/2" - 1" | 13 barg | 225 °C | | |
| | | | | 2,4 barg | 510 °C | | |
| 55.60A | ANSI300 | SA182F321 | 1/2" - 1" | 32 barg | 377 °C | | |
| | | | | 22 barg | 510 °C | | |

DIN/EN-Constructions refer to data sheet CONA®All-in-one

Types of connection Other types of connection on request.

- Flanges1 _____ acc. to ASME B16.5
- Screwed sockets2 _____ NPT thread acc. to ANSI B1.20.1 or Rp thread acc. to DIN EN 10226-1
- Socket weld ends3 _____ acc. to ASME B16.11
- Butt weld ends4 _____ ASME B16.25 (Note restriction on operating pressure / inlet temperature depending to design!)

Features

- Thermostatic steam trap with non-corrosive and robust water hammer proof bimetallic controller
- Mounting position senkrecht or waagrecht
- User-friendly handling, easy and quick access to the controller
- Automatic air-venting during start up and operation of the plant
- Non return protection
- With inside strainer
- Subcooling of condensate is continuously adjustable (observe the operation instructions)
- Maintenance simplified due to screwed cap without sealing
- The controller maybe changed without disturbing the pipe work

Controller (chooseable for operating range)

- Controller R13 uo to inlet pressure: 13 bar
- Controller R22 uo to inlet pressure: 22 bar
- Controller R32 uo to inlet pressure: 32 bar

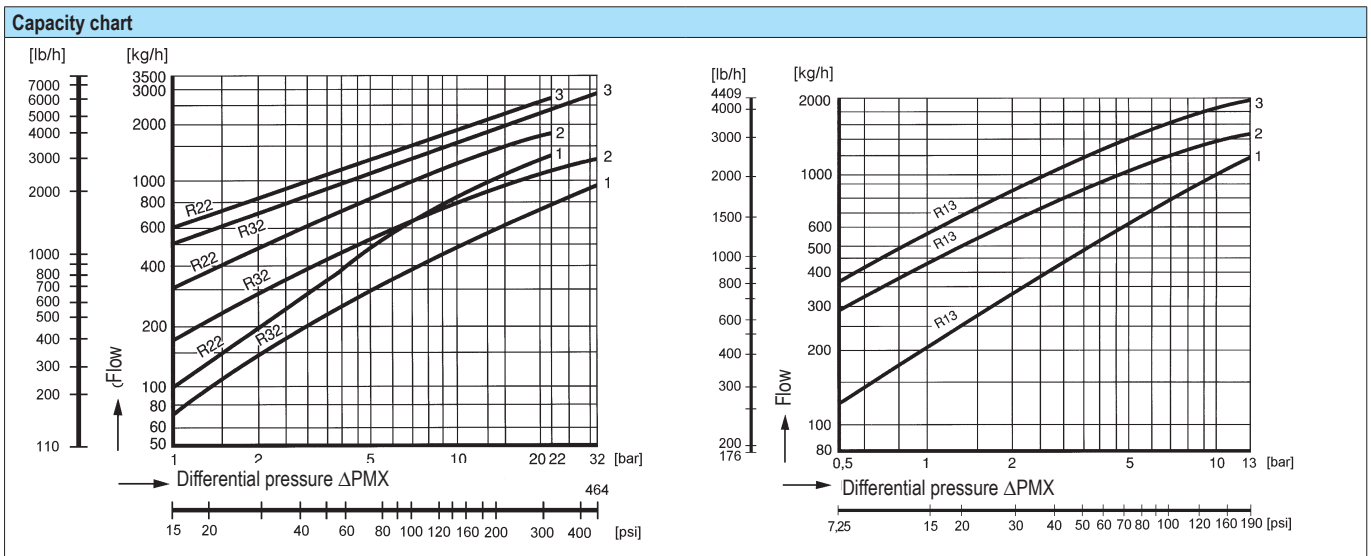
Options (Design refer to page 3)

- Drain valve (Pos. 51)
- Ball valve for blow down (Pos. 56)
- Stop valve with bellows seal (Pos. 8)

| Types of connection | Flanges | | | Screwed sockets Socket weld ends | | | Butt weld ends | | | |
|---|---------|-----|-----|-------------------------------------|-----|-----|----------------|-----|-----|-----|
| | 1/2 | 3/4 | 1 | 1/2 | 3/4 | 1 | 1/2 | 3/4 | 1 | |
| NPS | | | | | | | | | | |
| Face-to-face acc. to data sheet resp. customer request | | | | | | | | | | |
| L | (mm) | 210 | 210 | 230 | 150 | 150 | 230 | 160 | 160 | 160 |
| Dimensions Standard-flange dimensions refer to page 12. | | | | | | | | | | |
| H | (mm) | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| S | (mm) | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| HEX | (mm) | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Weights | | | | | | | | | | |
| (approx.) | (kg) | 5,6 | 6,1 | 6,6 | 4,1 | 4 | 6,6 | 4,1 | 4 | 3,9 |

| Parts | | | | |
|--------------|-------|---------------------------|---|-----------------|
| Pos. | Sp.p. | Description | Fig. 42./45.60A | Fig. 52./55.60A |
| 1 | | Body | SA105 | SA182F321 |
| 1.8 | x | Assembly stop valve, cpl. | AISI303 | |
| 2 | x | Strainer | SA240Gr.304 | |
| 6 | | Cap | SA105 | SA182F321 |
| 24 | x | Controller, cpl. | TB 102 / 85 (corrosion resistant bimetal) | |
| 49 | x | Sealing ring | SA182F321 | |
| 50 | x | Screw plug (M14x1,5) | SA182F321 | |
| 51 | x | Drain valve | AISI303 | |
| 56 | x | Ball valve for blow down | SA351CF8M | |
| | | L Spare parts | | |

Information / restriction of technical rules need to be observed!
 Operating and installation instructions can be downloaded at www.ari-armaturen.com.
 Resistance and fitness must be verified (or contact the manufacturer for information).



The capacity chart shows the maximum capacity at factory setting..
Curve 1: Maximum flow of hot condensate at approx. 10 K below saturation temperature.
Curve 2: Maximum flow of sub-cooled condensate at approx. 30 K below saturation temperature (with back-up of condensate).
Curve 3: Maximum flow quantity of cold condensate at about 20°C (during start-up of a cold installation).
 The condensate temperature determines the opening of the controller. Capacity is increased with the sub-cooling temperature of the condensate.

| Options | | |
|--------------------|---|-------------------------------------|
| <p>Drain valve</p> | <p>Ball valve for blow down (restricted to 16 bar, 210°C)</p> | <p>Stop valve with bellows seal</p> |

CONA[®]M All-in-one - Thermostatic steam trap with integrated inlet and outlet valves
(Forged steel, Stainless steel)

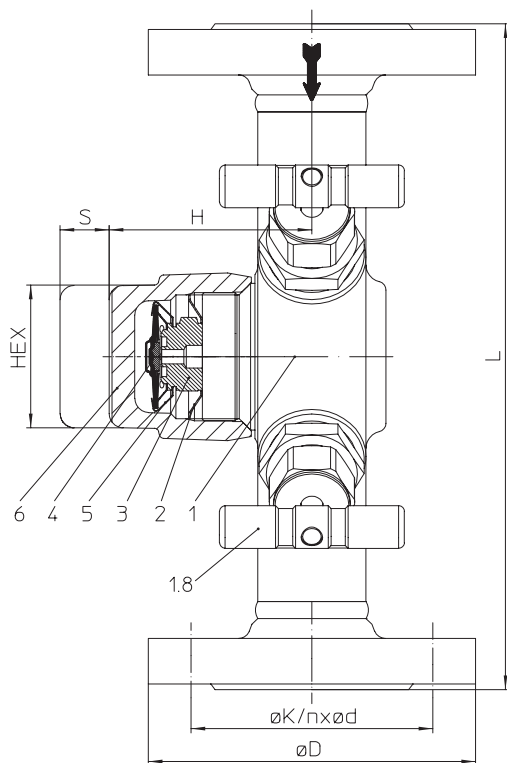


Fig. 61A....1 with flanges

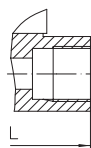


Fig. 61A....2
with screwed sockets

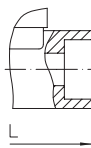


Fig. 61A....3
with socket weld ends

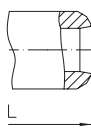
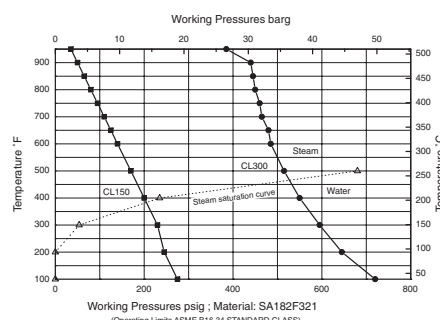
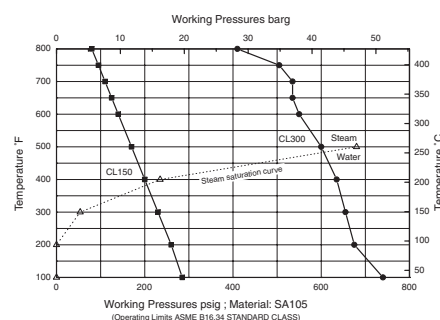


Fig. 61A....4
with butt weld ends

Pressure-Temperature-Diagramm



| Figure | Nominal pressure | Material | NPS | Operating pressure PS | Inlet temperature TS | allowable differential pressure ΔPMX | for controller |
|--------|------------------|-----------|-----------|-----------------------|----------------------|--------------------------------------|----------------|
| 42.61A | ANSI150 | SA105 | 1/2" - 1" | 13 barg | 225 °C | 32 bar | R32 |
| | | | | 5,5 barg | 427 °C | | |
| 45.61A | ANSI300 | SA105 | 1/2" - 1" | 32 barg | 411 °C | | |
| | | | | 28 barg | 427 °C | | |
| 52.61A | ANSI150 | SA182F321 | 1/2" - 1" | 13 barg | 225 °C | | |
| | | | | 2,4 barg | 510 °C | | |
| 55.61A | ANSI300 | SA182F321 | 1/2" - 1" | 32 barg | 350 °C | | |
| | | | | 27 barg | 510 °C | | |

DIN/EN-Constructions refer to data sheet CONA[®]All-in-one

Types of connection

Other types of connection on request.

- Flanges1 _____ acc. to ASME B16.5
- Screwed sockets2 _____ NPT thread acc. to ANSI B1.20.1 or Rp thread acc. to DIN EN 10226-1
- Socket weld ends3 _____ acc. to ASME B16.11
- Butt weld ends4 _____ 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
- Mounting position senkrecht or waagrecht
- User-friendly handling, easy and quick access to the controller
- Non return protection
- With inside strainer
- Filter effect maximised at horizontal installation
- Optimized design for quick installation
- Maintenance simplified due to screwed cap without sealing
- The controller maybe changed without disturbing the pipe work

Capsule:

(chooseable for operating range)

- Capsule No. 1 _____ for condensate discharge at boiling temperature (only on request)
- Capsule No. 2 _____ for condensate sub-cooling about approx. 10 K (Standard)
- Capsule No. 3 _____ for condensate sub-cooling about approx. 30 K

Options

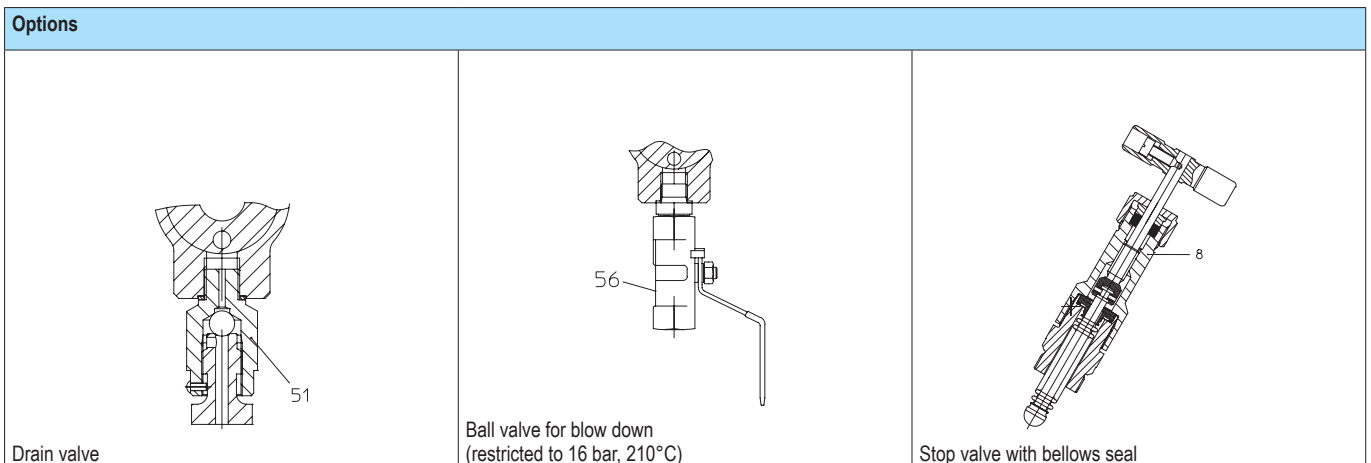
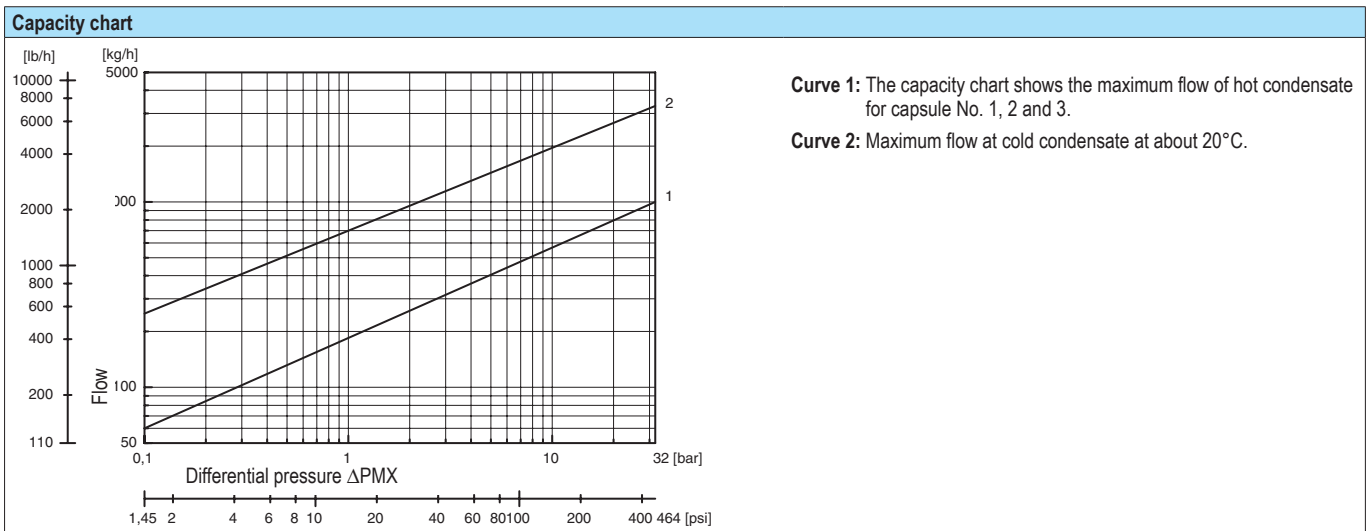
(Design refer to page 5)

- Drain valve (Pos. 51)
- Ball valve for blow down (Pos. 56)
- Stop valve with bellows seal (Pos. 8)

| Types of connection | Flanges | | | Screwed sockets Socket weld ends | | | Butt weld ends | | | |
|---|---------|-----|-----|-------------------------------------|-----|-----|----------------|-----|-----|-----|
| | 1/2 | 3/4 | 1 | 1/2 | 3/4 | 1 | 1/2 | 3/4 | 1 | |
| NPS | | | | | | | | | | |
| Face-to-face acc. to data sheet resp. customer request | | | | | | | | | | |
| L | (mm) | 210 | 210 | 230 | 150 | 150 | 230 | 160 | 160 | 160 |
| Dimensions Standard-flange dimensions refer to page 12. | | | | | | | | | | |
| H | (mm) | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| S | (mm) | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| HEX | (mm) | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Weights | | | | | | | | | | |
| (approx.) | (kg) | 4,8 | 5,3 | 5,8 | 3,3 | 3,2 | 5,8 | 3,4 | 3,3 | 3,2 |

| Parts | | | | |
|---------------|-------|-------------------------------|-------------------------|-----------------|
| Pos. | Sp.p. | Description | Fig. 42./45.61A | Fig. 52./55.61A |
| 1 | | Body | SA105 | SA182F321 |
| 1.8 | x | Assembly stop valve, cpl. | AISI303 | |
| 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 |
| 49 | x | Sealing ring | SA182F321 | |
| 50 | x | Screw plug (M14x1,5) | SA182F321 | |
| 51 | x | Drain valve | AISI303 | |
| 56 | x | Ball valve for blow down | SA351CF8M | |
| 57 | | Non return protection | SA240Gr.304 | |
| L Spare parts | | | | |

Information / restriction of technical rules need to be observed!
 Operating and installation instructions can be downloaded at www.ari-armaturen.com.
 Resistance and fitness must be verified (or contact the manufacturer for information).



CONA®TD All-in-one - Thermodynamic steam trap with integrated inlet and outlet valves
(Forged steel, Stainless steel)

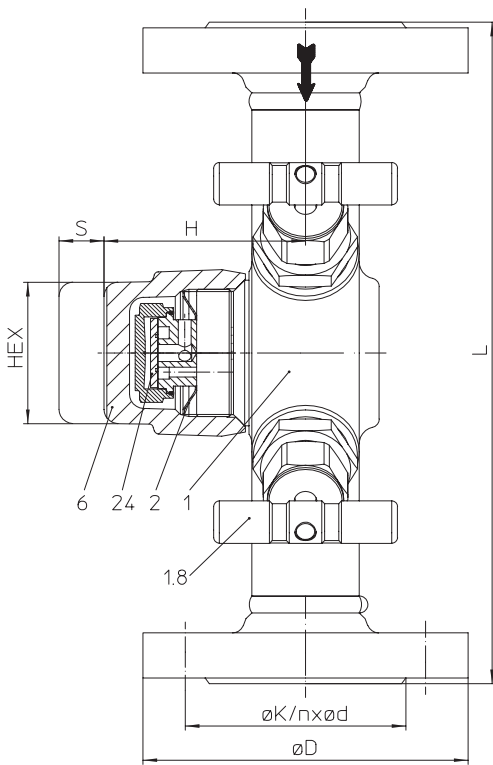


Fig. 64A....1 with flanges

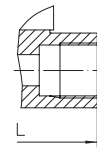


Fig. 64A....2
with screwed sockets

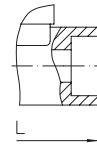


Fig. 64A....3
with socket weld ends

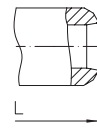
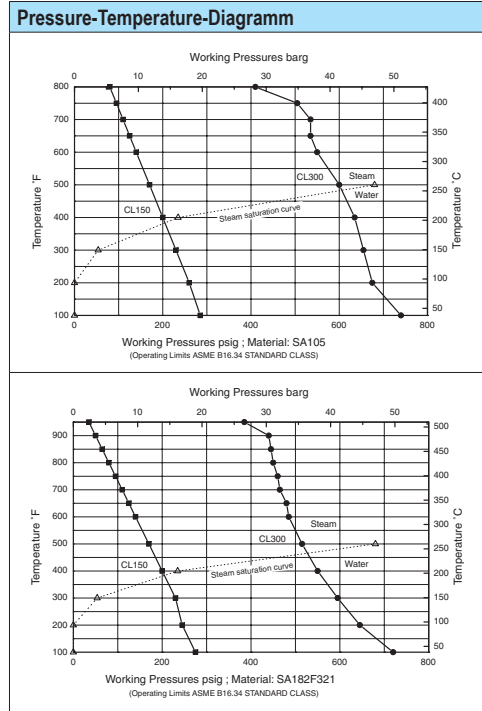


Fig. 64A....4
with butt weld ends



| Figure | Nominal pressure | Material | NPS | Operating pressure PS | Inlet temperature TS | allowable differential pressure ΔPMX | permissible pressure ratio |
|--------|------------------|-----------|-----------|-----------------------|----------------------|--------------------------------------|---|
| 42.64A | ANSI150 | SA105 | 1/2" - 1" | 13 barg | 225 °C | 32 bar | Back pressure / Inlet pressure: ≤ 0,8 barg |
| | | | | 5,5 barg | 427 °C | | |
| 45.64A | ANSI300 | SA105 | 1/2" - 1" | 32 barg | 411 °C | | |
| | | | | 28 barg | 427 °C | | |
| 52.64A | ANSI150 | SA182F321 | 1/2" - 1" | 13 barg | 225 °C | | |
| | | | | 2,4 barg | 510 °C | | |
| 55.64A | ANSI300 | SA182F321 | 1/2" - 1" | 32 barg | 377 °C | | |
| | | | | 27 barg | 510 °C | | |

DIN/EN-Constructions refer to data sheet CONA®All-in-one

Types of connection

Other types of connection on request.

- Flanges1 _____ acc. to ASME B16.5
- Screwed sockets2 _____ NPT thread acc. to ANSI B1.20.1 or Rp thread acc. to DIN EN 10226-1
- Socket weld ends3 _____ acc. to ASME B16.11
- Butt weld ends4 _____ ASME B16.25 (Note restriction on operating pressure / inlet temperature depending to design!)

Features

- Thermodynamic steam trap with replaceable controller-unit and cap with heat chamber wich minimize the effects from the weather conditions to the function of the trap such as low ambient temperatures, rain, wind, etc..
- Mounting position senkrecht or waagrecht
- User-friendly handling, easy and quick access to the controller
- Intermittent mode of operation
- Heat chamber minimizes the impact of weather conditions on the trap's performance
- Robust and resistant to water-hammer
- Integrated non return protection
- With inside strainer
- Optimized design for quick installation
- Maintenance simplified due to screwed cap without sealing
- The controller maybe changed without disturbing the pipe work

Options

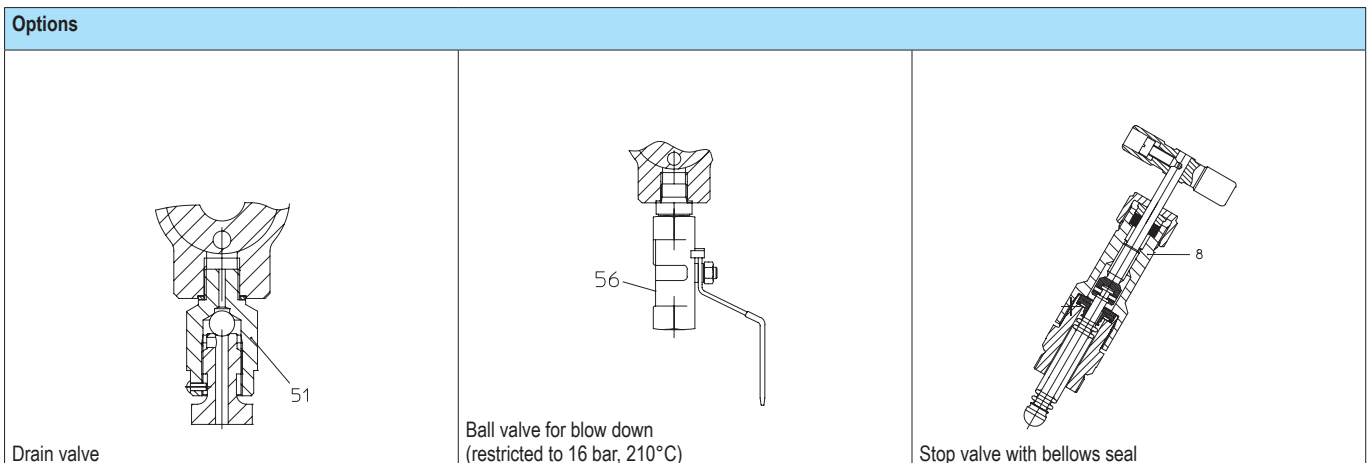
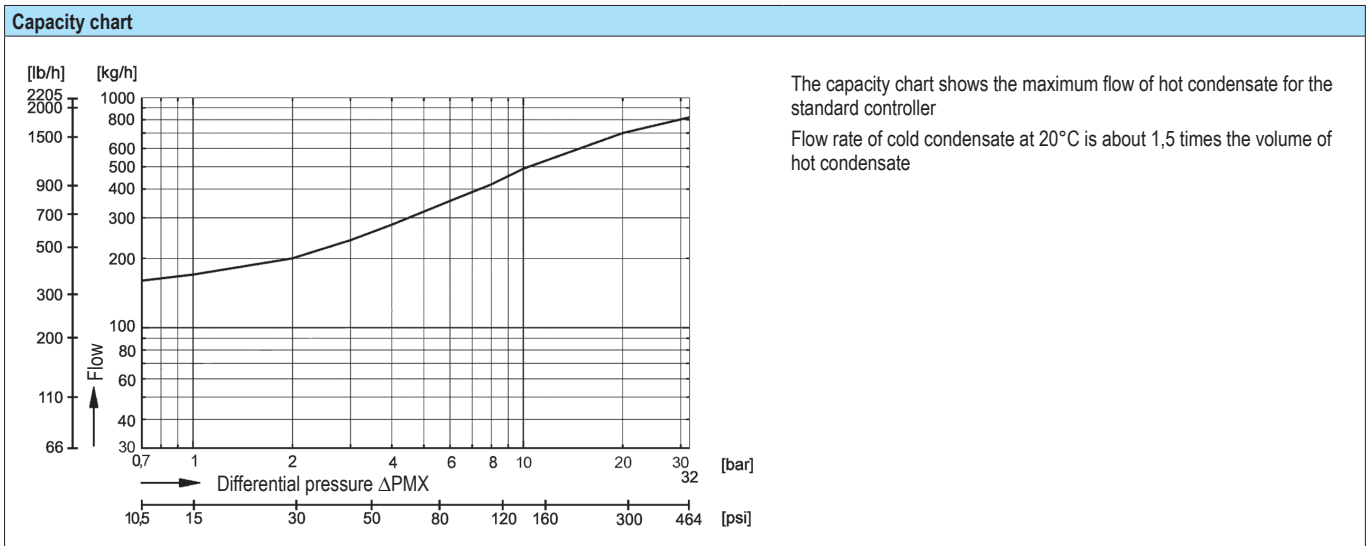
(Design refer to page 7)

- Drain valve (Pos. 51)
- Ball valve for blow down (Pos. 56)
- Stop valve with bellows seal (Pos. 8)

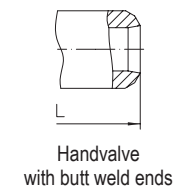
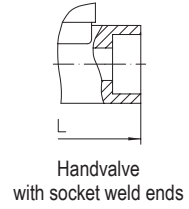
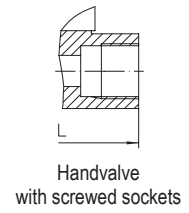
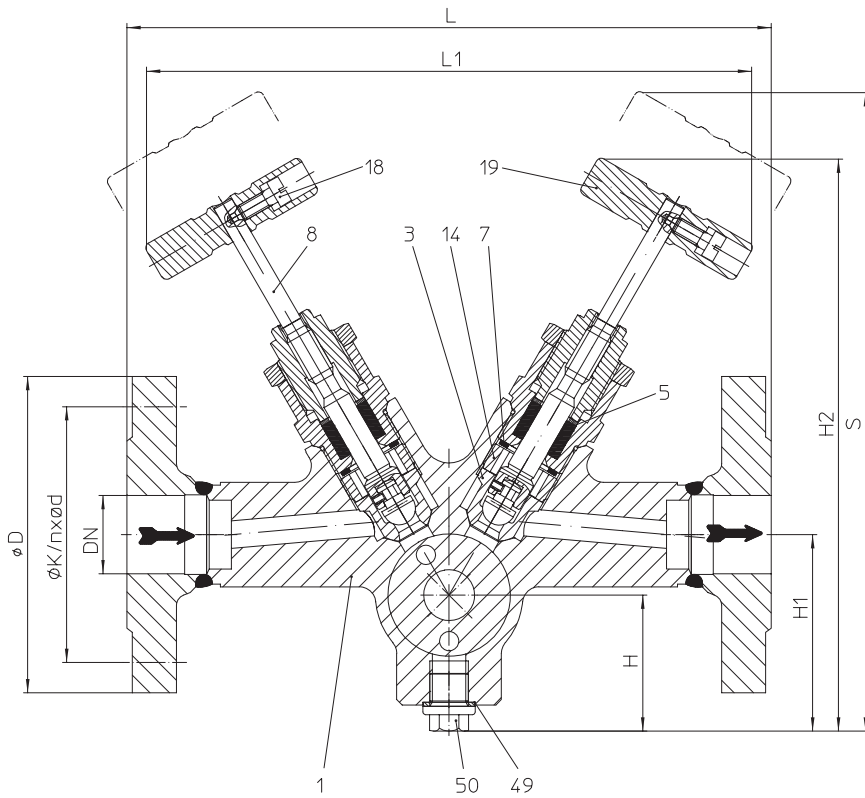
| Types of connection | Flanges | | | Screwed sockets Socket weld ends | | | Butt weld ends | | | |
|---|---------|-----|-----|-------------------------------------|-----|-----|----------------|-----|-----|-----|
| | 1/2 | 3/4 | 1 | 1/2 | 3/4 | 1 | 1/2 | 3/4 | 1 | |
| NPS | | | | | | | | | | |
| Face-to-face acc. to data sheet resp. customer request | | | | | | | | | | |
| L | (mm) | 210 | 210 | 230 | 150 | 150 | 230 | 160 | 160 | 160 |
| Dimensions Standard-flange dimensions refer to page 12. | | | | | | | | | | |
| H | (mm) | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| S | (mm) | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| HEX | (mm) | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Weights | | | | | | | | | | |
| (approx.) | (kg) | 4,8 | 5,3 | 5,8 | 3,3 | 3,2 | 5,8 | 3,4 | 3,3 | 3,2 |

| Parts | | | | |
|---------------|-------|---------------------------|-----------------|-----------------|
| Pos. | Sp.p. | Description | Fig. 42./45.64A | Fig. 52./55.64A |
| 1 | | Body | SA105 | SA182F321 |
| 1.8 | x | Assembly stop valve, cpl. | AISI303 | |
| 2 | x | Strainer | SA240Gr.304 | |
| 6 | | Cap | SA105 | SA182F321 |
| 24 | x | Controller, cpl. | AISI440 | |
| 49 | x | Sealing ring | SA182F321 | |
| 50 | x | Screw plug (M14x1,5) | SA182F321 | |
| 51 | x | Drain valve | AISI303 | |
| 56 | x | Ball valve for blow down | SA351CF8M | |
| L Spare parts | | | | |

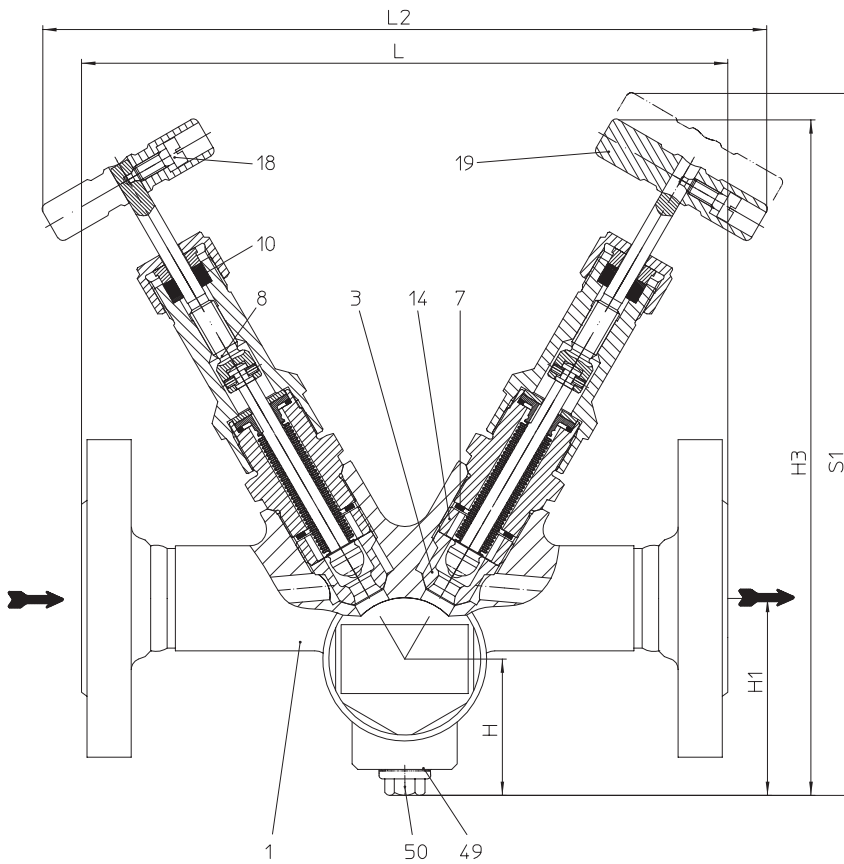
Information / restriction of technical rules need to be observed!
 Operating and installation instructions can be downloaded at www.ari-armaturen.com.
 Resistance and fitness must be verified (or contact the manufacturer for information).



Handvalve for inlet and outlet (Forged steel, Stainless steel)

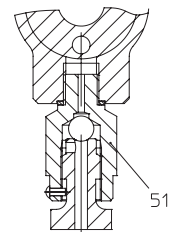


Stop valve with gland packing

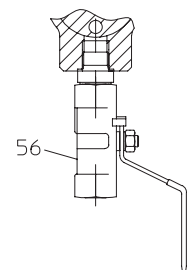


Stop valve with bellows seal

Options



Drain valve



Ball valve for blow down (restricted to 16 bar, 210°C)

| Types of connection | Flanges | | | Screwed sockets Socket weld ends | | | Butt weld ends | | |
|---------------------|---------|-----|---|-------------------------------------|-----|---|----------------|-----|---|
| | 1/2 | 3/4 | 1 | 1/2 | 3/4 | 1 | 1/2 | 3/4 | 1 |
| NPS | | | | | | | | | |

| Face-to-face acc. to data sheet resp. customer request | | | | | | | | | | |
|--|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| L | (mm) | 210 | 210 | 230 | 150 | 150 | 230 | 160 | 160 | 160 |

| Dimensions | | | | | | | | | | |
|-------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | | | | | | | | Standard-flange dimensions refer to page 12. |
| L1 | (mm) | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| L2 (Bellows seal) | (mm) | 259 | 259 | 259 | 259 | 259 | 259 | 259 | 259 | 259 |
| H | (mm) | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| H1 | (mm) | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 |
| H2 | (mm) | 208 | 208 | 208 | 208 | 208 | 208 | 208 | 208 | 208 |
| H3 (Bellows seal) | (mm) | 241 | 241 | 241 | 241 | 241 | 241 | 241 | 241 | 241 |
| S | (mm) | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 |
| S1 (Bellows seal) | (mm) | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |

| Parts | | | | |
|---------------|-------|--------------------------|---------------|-----------------|
| Pos. | Sp.p. | Description | Forged steel | Stainless steel |
| 1.1 | | Body | SA105 | SA182F321 |
| 1.3 | x | Seat | AISI303 | |
| 1.5 | x | Packing ring | Pure graphite | |
| 1.7 | | Sealing ring | Graphite | |
| 1.8 | x | Bonnet Handvalve, | AISI303 | |
| 1.10 | x | Packing ring | Pure graphite | |
| 1.14 | | Banjo bolt | AISI303 | |
| 1.18 | x | Cheese head screw | A2-70 | |
| 1.19 | x | Hand grip | AISI430F | |
| 1.49 | x | Sealing ring | SA182F321 | |
| 1.50 | x | Screw plug (M14x1,5) | SA182F321 | |
| 1.51 | x | Drain valve (M14x1,5) | AISI303 | |
| 1.56 | x | Ball valve for blow down | SA351CF8M | |
| L Spare parts | | | | |

Information / restriction of technical rules need to be observed!

Operating and installation instructions can be downloaded at www.ari-armaturen.com.

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

| Combinations | | |
|---|-------------------|-------------------|
| CONA®TD All-in-one | CONA®M All-in-one | CONA®B All-in-one |
| | | |
| <p>Stop valve with gland packing (with flanges, Screwed sockets, Socket weld ends, Butt weld ends)</p> <p>Options Stop valve with bellows seal</p> | | |

CONA®SC All-in-one - Ball float steam trap with integrated inlet and outlet valves
(Forged steel, Stainless steel)

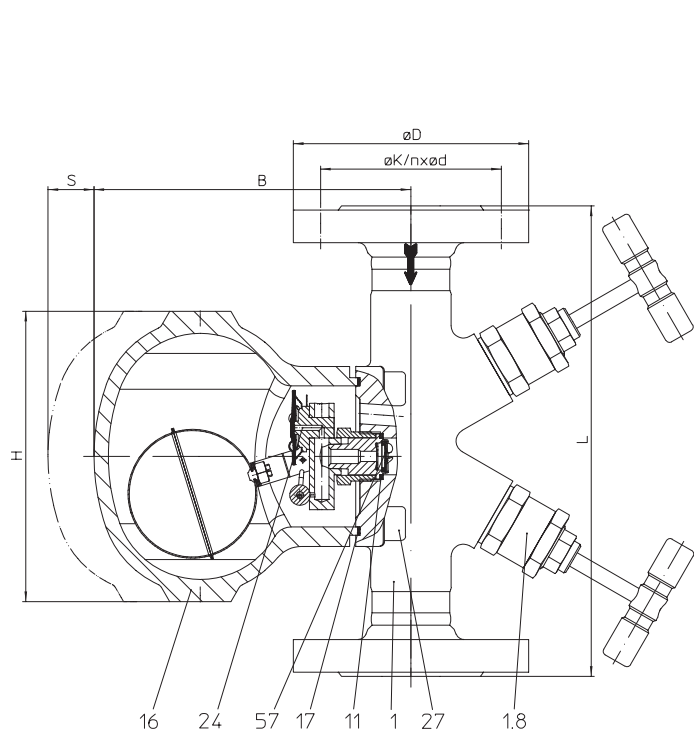


Fig. 63A....1 with flanges

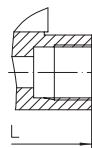


Fig. 63A....2 with screwed sockets

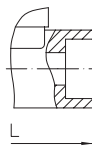


Fig. 63A....3 with socket weld ends

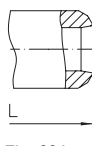
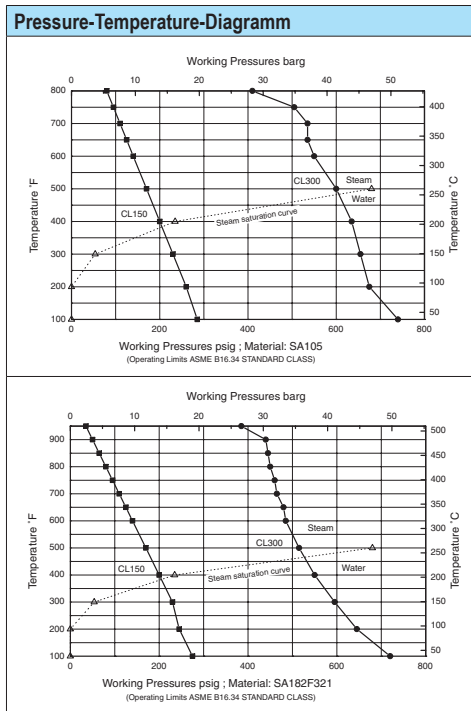


Fig. 63A....4 with butt weld ends



| Figure | Nominal pressure | Material | NPS | Operating pressure PS | Inlet temperature TS | allowable differential pressure ΔPMX | for controller |
|--------|------------------|----------------|-----------|-----------------------|----------------------|--------------------------------------|----------------|
| 42.63A | ANSI150 | Hood: SA216WCB | 1/2" - 1" | 4 barg | 467 °C | 32 bar | R32 |
| | | | | 5,5 barg | 427 °C | | |
| | | | | 14 barg | 199 °C | | |
| 45.63A | ANSI300 | Hood: SA216WCB | 1/2" - 1" | 21 barg | 427 °C | 21 bar | R21 |
| | | | | 32 barg | 411 °C | 14 bar | R14 |
| 52.63A | ANSI150 | Hood: SA351CF8 | 1/2" - 1" | 2,4 barg | 510 °C | 4 bar | R4 |
| | | | | 4 barg | 467 °C | | |
| | | | | 12,8 barg | 218 °C | | |
| 55.63A | ANSI300 | Hood: SA351CF8 | 1/2" - 1" | 21 barg | 510 °C | | |
| | | | | 32 barg | 262 °C | | |

DIN/EN-Constructions refer to data sheet CONA®All-in-one

Types of connection Other types of connection on request.

- Flanges1 _____ acc. to ASME B16.5
- Screwed sockets2 _____ NPT thread acc. to ANSI B1.20.1 or Rp thread acc. to DIN EN 10226-1
- Socket weld ends3 _____ acc. to ASME B16.11
- Butt weld ends4 _____ ASME B16.25 (Note restriction on operating pressure / inlet temperature depending to design!)

Features

- Ball float steam trap with level control for the condensate-discharge from all kinds of steam systems
- Rapid system start-up due to thermostatic air venting capsule
- User-friendly handling, easy and quick access to the controller
- Immediate discharge of hot boiling condensat
- Discharge of great condensate quantities even at low differential pressure
- Body with flanged hood
- With inside strainer
- Non return protection
- The controller maybe changed without disturbing the pipe work

Mounting position:

| | | |
|-------------|--|---|
| • Standard: | vertical | Please indicate when ordering! Installation position may be changed on-site (see operating instructions). |
| • Optional: | horizontal with inlet from right or left | |

Options (Design refer to page 3)

- | | |
|--|--|
| <ul style="list-style-type: none"> • Vent plug (Pos. 47) • Plug (Pos. 50) • Manual air vent valve (Pos. 51) | <ul style="list-style-type: none"> • Ball valve for blow down (Pos. 56) • Stop valve with bellows seal |
|--|--|

| Parts | | | | |
|---------------|-------|----------------------------|--|-----------------|
| Pos. | Sp.p. | Description | Fig. 42./45.63A | Fig. 52./55.63A |
| 1 | | Body | SA105 | SA182F321 |
| 1.8 | x | Assembly stop valve, cpl. | AISI303 | |
| 11 | x | Sealing ring | A4 | SA182F321 |
| 16 | | Hood | SA216WCB | SA351CF8 |
| 17 | x | Gasket | GRAPHIT (CrNi laminated with graphite) | |
| 24 | x | Controller, cpl. / Capsule | SA240Gr.304 / Hastelloy | |
| 27 | | Cheese head screw | SA193Gr.B16 | |
| 47 | | Vent plug (M14x1,5) | SA182F321 | |
| 49 | x | Sealing ring | A4 | SA182F321 |
| 50 | x | Screw plug (M14x1,5) | SA182F321 | |
| 51 | x | Drain valve * | AISI303 | |
| 56 | x | Ball valve for blow down | SA351CF8M | |
| 57 | x | Non return protection | SA240Gr.304 | |
| L Spare parts | | | | |

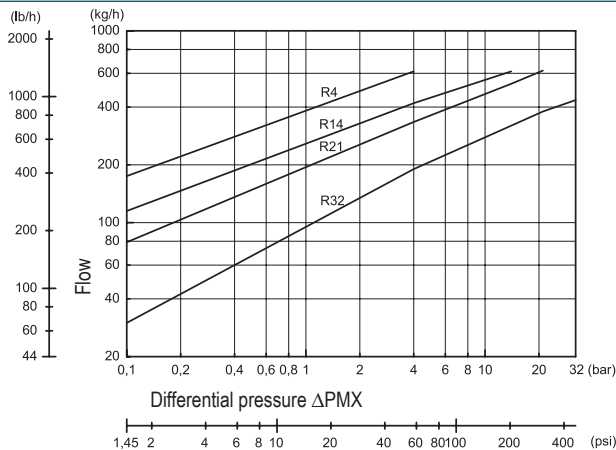
Information / restriction of technical rules need to be observed!

Operating and installation instructions can be downloaded at www.ari-armaturen.com.

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

| Types of connection | Flanges | | | Screwed sockets Socket weld ends | | | Butt weld ends | | | |
|---|---------|-----|-----|-------------------------------------|-----|-----|----------------|-----|-----|-----|
| | 1/2 | 3/4 | 1 | 1/2 | 3/4 | 1 | 1/2 | 3/4 | 1 | |
| NPS | | | | | | | | | | |
| Face-to-face acc. to data sheet resp. customer request | | | | | | | | | | |
| L | (mm) | 210 | 210 | 230 | 150 | 150 | 230 | 160 | 160 | 160 |
| Dimensions Standard-flange dimensions refer to page 12. | | | | | | | | | | |
| H | (mm) | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| B | (mm) | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 |
| S | (mm) | 112 | 112 | 112 | 112 | 112 | 112 | 112 | 112 | 112 |
| Weights | | | | | | | | | | |
| (approx.) | (kg) | 7 | 7,7 | 8,2 | 5,6 | 5,5 | 8,2 | 5,5 | 5,4 | 5,3 |

Capacity chart



The capacity chart shows the maximum flow of hot boiling condensate.

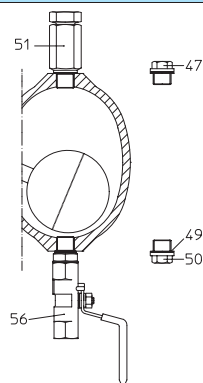
The whole cold water flow is:

- The capacity of the trap is increased by 1,2 x the value shown in the capacity chart.
- The thermostatic air vent is open, provided additional capacity as shown in the table

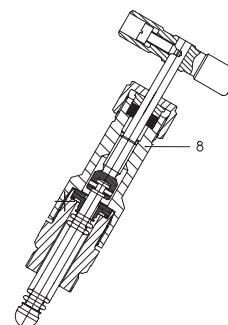
Additional cold water-flow quantity of the thermostatic steam trap at starting conditions

| Δp | (bar) | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 21 |
|-----------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Q (approx.20°C) | (kg/h) | 280 | 360 | 440 | 490 | 550 | 590 | 640 | 710 | 990 |

Options



Ball valve for blow down (restricted to 16 bar, 210°C)



Stop valve with bellows seal

Informations about pipe welding
Welding groove acc. to DIN 2559

The material used for ARI valves with butt weld ends are: SA105

Note: SA182F321

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.

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 |
|---------|--------|------|--------|--------|--------|
| ANSI150 | ØD | (mm) | 89 | 99 | 108 |
| | ØK | (mm) | 60 | 70 | 79 |
| | n x Ød | (mm) | 4 x 16 | 4 x 16 | 4 x 16 |
| ANSI300 | ØD | (mm) | 95 | 117 | 124 |
| | ØK | (mm) | 66,5 | 82,5 | 89 |
| | n x Ød | (mm) | 4 x 16 | 4 x 19 | 4 x 19 |