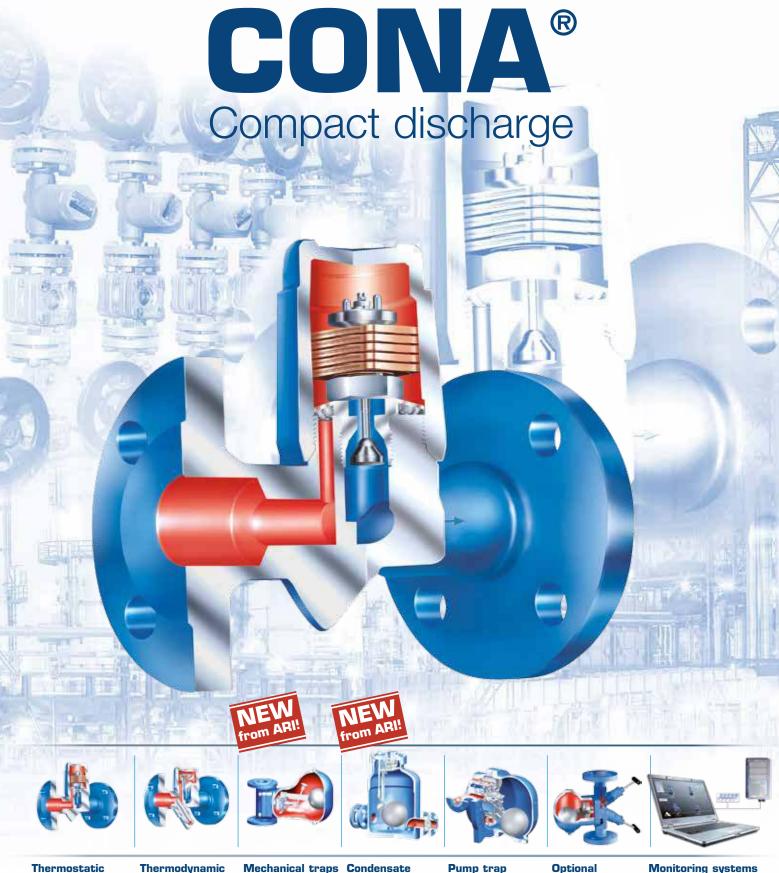
New from ARI! CONLIFT® condensate pump – Now also with a casted body or in stainless steel

New from ARI! CONA® S ball float steam trap – for more performance



Thermostatic traps e.g. CONA® B CONA® M Thermodynamic traps CONA® TD Mechanical traps CONA® S – now also for more performance

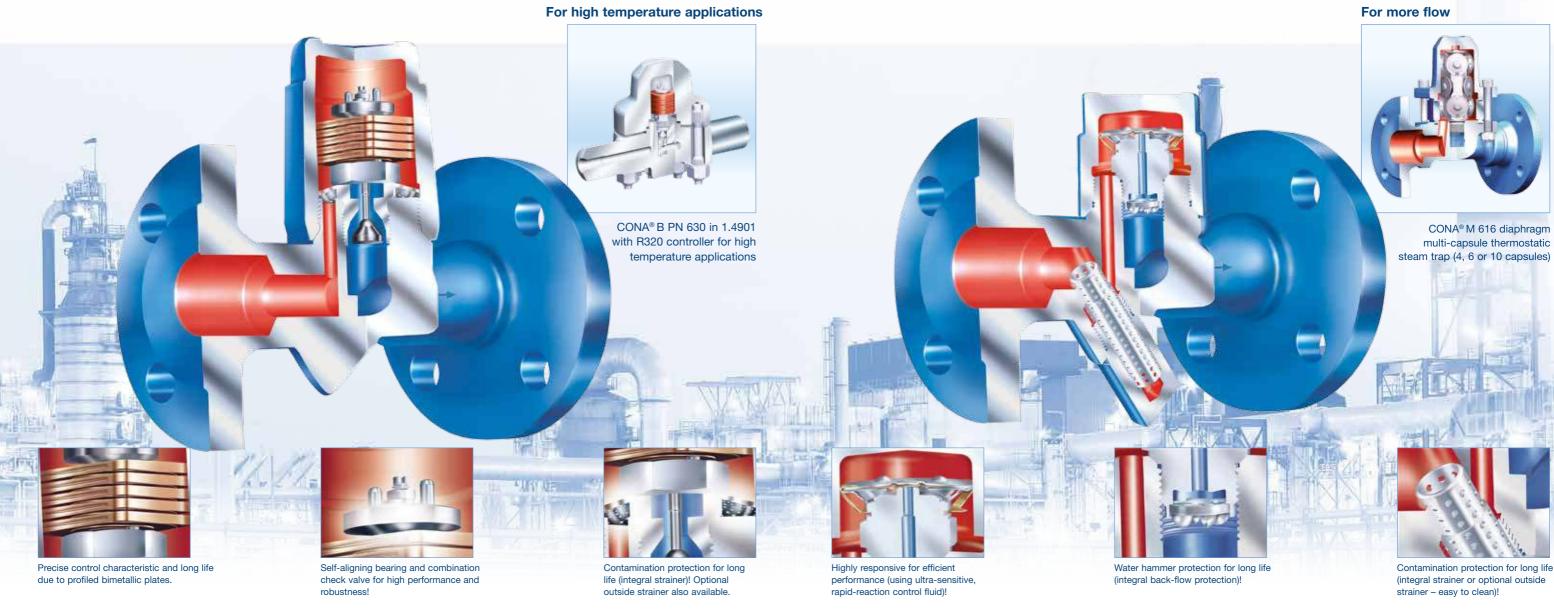
Condensate pump systems CONLIFT® – now also with a casted body Pump trap CONA® P Optional components e.g. CONA® All-in-One

Monitoring systems e.g. CONA®-control





Thermostatic



CONA® B

Bimetallic steam trap

For condensate drainage in steam systems. Extra-high performance with precise control characteristic!

- Ideal control characteristics and high-performance precision by combining multiple profiled bimetallic plates, self-aligning bearing and combination check valve.
- High performance and long life: profiled bimetallic plates are dirt resistant and permit optimum reaction time to temperature changes.
- Metal seal for long life and economy.
- Quick-assembly housing for optimum handling (DN 15-25 and PN 40)! Seal-free.

- Long life by combining self-aligning, low-friction bearing with bimetallic plates.
- Erosion deflector for long life (PN 63 to PN 630).
- Frost and water hammer resistant for long life.

Design

DN 15-50 // PN 16-630 Size 1/2"-2" // ANSI Class 150-2500

Materials:

Cast iron, forged steel, heat resistant steel, stainless steel, ASTM materials

Connection types:

Flanges, screwed sockets, socket weld ends, butt weld ends, union with butt weld ends

CONA® M

Diaphragm capsule thermostatic steam trap

For condensate drainage in steam systems – targeted condensate sub-cooling for high energy utilisation and minimal re-evaporation (due to condensate backpressure).

- Highly responsive for efficient performance (using ultra-sensitive, rapid-reaction control fluid).
- Precision control characteristics for high performance (using sensitive control diaphragm).
- Flexibility for high performance (sub-cooling options by selecting different diaphragm capsules).

- Flexibility for high performance through diaphragm multi-capsule controller – for discharge of extremely high condensate volumes.
- User friendly thanks to quick-assembly housing seal-free.

Design:

DN 15-50 // PN 16-40 Size 1/2"-2" // ANSI Class 150-300

Materials

Cast iron, forged steel, heat resistant steel, stainless steel, ASTM materials

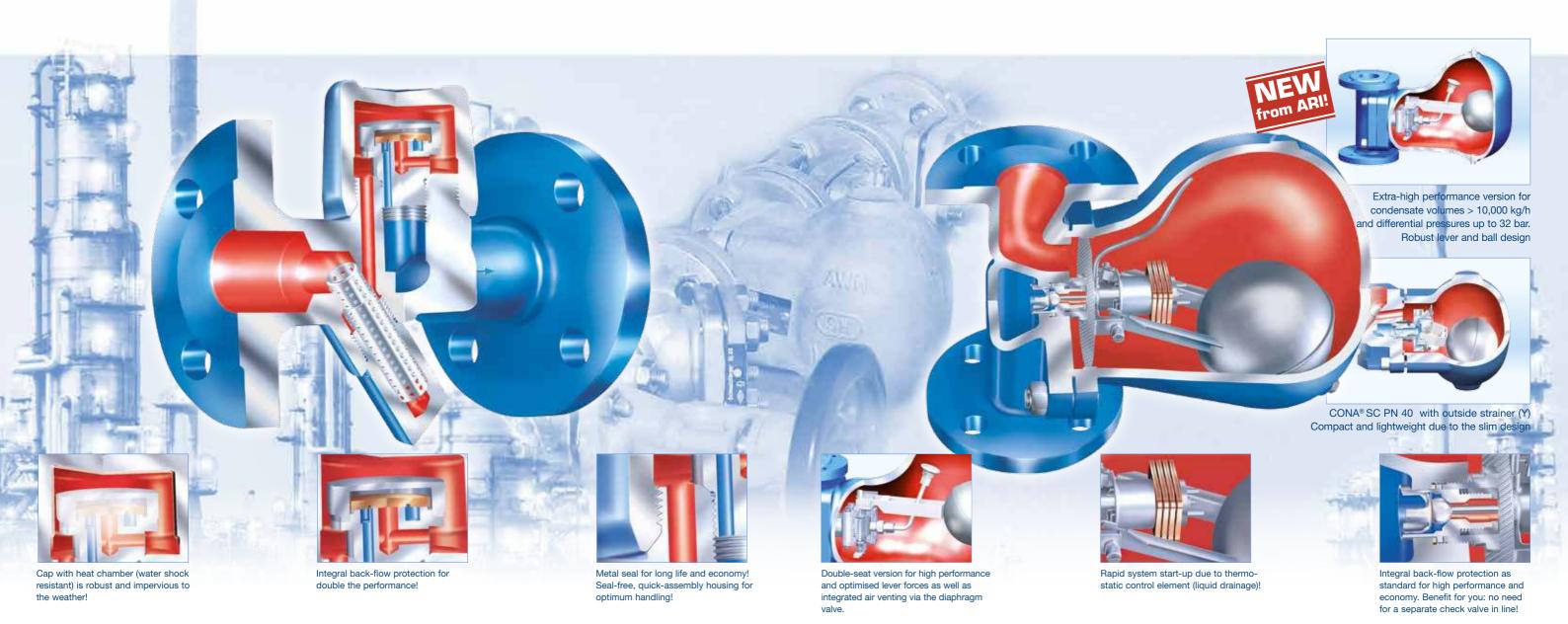
Connection types:

Flanges, screwed sockets, socket weld ends, butt weld ends, union with butt weld ends, screwed male / socket



Thermodynamic

Mechanical



CONA® TD

Thermodynamic steam trap

Small, practical, impervious to the weather for discharge of condensate with limited sub-cooling.

- Cap with heat chamber (water shock resistant) is impervious to the weather and ensures high performance!
- Integral back-flow protection for high performance!
- User friendly: separate control cartridge and heat chamber replaceable in situ.
- Small size and weight for optimum handling. Quick assembly.
- Contamination protection for long life (integral strainer or optional outside strainer – easy to clean)!

Design

DN 15-25 // PN 40-63 Size 3/8"-1" // ANSI Class 150-600

Materials

Forged steel, heat resistant steel, chromium steel, stainless steel, ASTM materials

Connection types:

Flanges, screwed sockets, socket weld ends, butt weld ends, universal connector, system connector

CONA® S/SC

Ball float steam trap

For major fluctuations in pressure and volume – instant discharge with no temperature loss ...! For discharge of condensate at boiling temperature.

- High performance: Instant discharge of condensate with no temperature loss permits backpressure-free condensate removal, even with extreme fluctuations of pressure and volume.
- Integral back-flow protection as standard for high performance and economy. Benefit for you: Extremely economical because there is no need for a separate check valve in line.

- Controller with automatic air venting / liquid drainage also incorporated as standard for high performance and economy.
- Exceptionally robust ball float for long life.
- Rapid system start-up due to thermostatic control element (liquid drainage).
- Optimum handling: converts easily from vertical to horizontal installation.

Design:

DN 15-100 // PN 16-160 Size 1/2"-4" // ANSI Class 150-900

Materials:

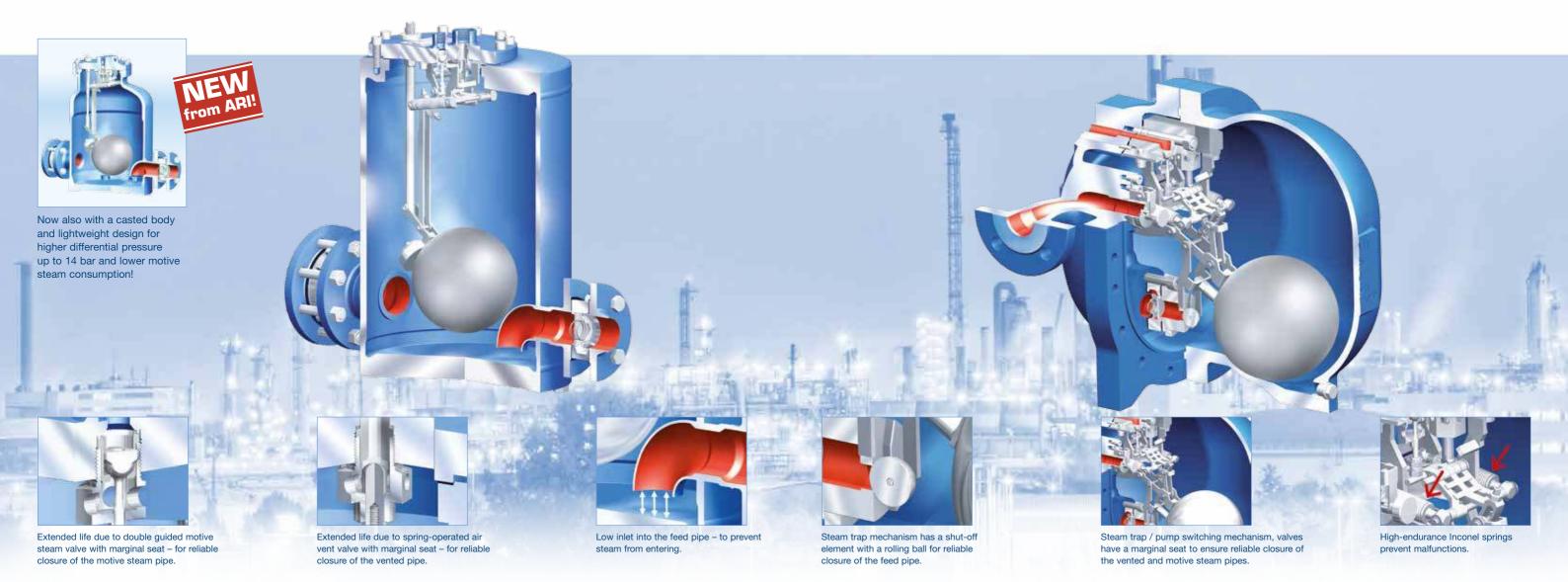
Cast iron, SG iron, cast steel, forged steel, heat resistant steel, stainless steel, ASTM materials

Connection types:

Flanges, screwed sockets, socket weld ends, butt weld ends



Mechanical pump systems



CONLIFT®

Mechanical condensate pump

Versatile and energy efficient – for optimal condensate collection and return.

New from ARI –now also in stainless steel or with a casted body!

- Economical and energy efficient because the pump is operated purely mechanically under steam or gas pressure (ideal for use in potentially explosive atmosphere).
- Condensate can be removed under any conditions (from vacuum to high temperatures), ensuring safety and flexibility.
- Economical through maximum energy recovery (condensates can be pumped up to boiling temperature).
- Powerful pump with a high delivery rate.
- Low filling head means greater planning flexibility.
- Cost-effective due to minimal maintenance required.

- Only one control unit is used for all nominal diameters, resulting in easy handling.
- Reliable and durable because all internals are made of corrosion-resistant stainless steel.
- More dependable than electric pumps as the flow is free from cavitation even at temperatures exceeding 95°C.

Fluids pumped:

Group 2 fluids with a density of 0.85-1.15 kg/dm³

Nominal diameter:

DN 25/25, DN 40/40, DN 50/50, DN 80/50

Materials

Body: Jacket P235GH, sockets and flanges P250GH, plates P265GH, cover P265GH

Stainless steel: Body / bonnet: 1.4571 SG iron: Body / bonnet: EN-JS1049

Connection types:

Flange connections to DIN EN 1092-1, PN 16, Optional: Flanges drilled to ANSI Class 150

Mounting position: Horizontal flow

Temperature:

-10°C to +200°C

CONA® P

Pump trap

For continuous control of steam users without problems under negative pressure conditions (backpressure downstream of the trap ≥ inlet pressure upstream of the trap).

Operates as a conventional ball float steam trap if the pressure difference is positive.

- Economical and flexible: "Two-in-One" principle unites all the functionality of a traditional float trap and a condensate pump in ONE item – ideal when space is restricted (compact design).
- Versatile: applicable for all loads.
- High performance: large displacement.
- Economical: water hammer in the system reduced to a minimum.

- Easy handling: low filling head required.
- Economical: condensate recovery from steam systems under varying operating conditions, also at part load.
- Energy efficient: self-acting without electricity.
- Easy to service: maintenance is possible without disturbing the pipework.
- Optimum handling: simple replacement of functional units as one complete entity.
- Durable: all internals made of stainless steei and wearing parts made of hardened stainless steel.

luid pumped

Group 2 fluids with a density of 0.85-1.15 kg/dm³

Nominal diameter: DN 25/25, 40/40, 50/50

Materials: Body EN JS-1049

Connection types: Standard flanges acc. to DIN EN 1092-1 PN 16, optional 1 ½" thread or flange drilled to ANSI CL150 1 ½"



More steam trap options and components





Compact condensate discharge in a multi-valving system!

Patented – Integrated system comprises a steam trap, stop valve, strainer, check valve and drain valve! Up to 80% reduction in pipe connections. Now also with DIN and ANSI face-to-face dimensions!

- Economical through integrated stop valves (eliminates two stop valves) patented design (DE 10 2006 041 132).
- Variable, modular design guarantees easy servicing: Replacement of the controller or conversion to other steam trap types without completely disturbing the pipework; replacement of integrated valves by changing the valve bonnet.
- Economical through time and cost savings because piping is reduced to a minimum (the number of pipe connections can be reduced from as many as twelve to just one or two).

- Integrated drain valve provides optimised safety.
- Manufactured from strong materials for maximum durability, robustness and resistance to water hammer.
- Multifunctional because the system features integrated non-return protection.
- Flexible in use through variable mounting position (horizontal or vertical).
- Gasket-free sealing guarantees an extended lifetime (metal seated – CONA® B/M/TD).
- Connection types: New from ARI! Now also available in DIN EN 26554 (face-to-face dimensions).
- Choice of butt weld ends / socket weld ends / screwed sockets (length acc. to company standard or as specified by customer).

Nominal diameter:

DN 15, DN 20, DN 25; ½"-1"

Nominal pressure:

PN 40, ANSI CI300

Materials:

Forged steel, stainless steel

$CODI^{\otimes}$

COllector / Distributor

Collects and distributes condensate, steam and fluids (minimal welding, reduced assembly time, rapid start-up)!

- Flexibility through design: compact, variable modular components (choose from 2, 4, 6, 8, 10, 12, 14, 16 or 18 ready-integrated stop valves! All functional parts replaceable in situ – without removing the manifold)!
- Two-fold safety due to integral stop valves with double sealing mechanism when the valve is fully open!
- Economical: optimum on-site handling and durability (forged steel and metal seal ...).
- Dual function: collector or distributor.
- Optional: manifold complete with steam traps.

- Vertical or horizontal mounting.
- Variable gap between modular components.
- Optional insulating jacket provides added plant safety and saves energy.



DN 40-50 / size 1 1/2"-2" (main connection), DN 15-25 / size 1/2"-1" (secondary connections) PN 40-63 / ANSI Class 300

Materials:

Forged steel, stainless steel, ASTM materials

Connection types:

Flanges, socket weld ends, butt weld ends



CONA® Universal
CONA® Connector

For thermostatic, thermodynamic and mechanical trap functions. Optionally with integral stop function.

Benefit for you: quick and easy replacement or maintenance of steam traps – full functionality is retained.

Optional components ensure flexibility:



Vacuum break



Liquid return temperature limiter



Liquid drainer

9



Monitoring systems



Multifunction tester

Functional testing of steam traps and valves. Detection of compressed air leaks. Machine diagnostics / ball bearing.

Use the ultrasonic gauge with integral temperature measurement (optionally up to 800°C)...

- Reduces the failure rate in your system for increased availability and energy efficiency.
- Monitors ultrasound levels in steam traps and valves (leakage).
- Measures the surface temperature of steam traps and valves (leakage) or pipelines in order to detect temperature shifts in the system.
- Performs characteristic tests then stores the results and transfers them to a PC.
- Allows precise operational checks through a combination of ultrasonic and surface temperature measurements (leakage).
- Steam trap survey with report and evaluation as an additional service.
- For use in hazardous areas.

CONA® Control

Patented test system for remote monitoring

Steam traps are required to operate continuously. Early detection of malfunctions is therefore vital. Unlike conventional systems, CONA® Control does not measure the conductivity of the condensate but the temperature (patented).

If a predefined variable temperature range is exceeded, the system reports continuous steam leakage; a low temperature is interpreted as blockage of the steam trap. Fast, efficient, reliable – and an important energy saver.

How CONA® Control benefits you:

Precision: individual error messages for every single steam trap in a matter of seconds thanks to the ASI bus wiring (as well as optional networking with a higher-level bus system).

- Speed: dynamic error reporting because the steam traps are monitored individually and continuously (unnecessary energy losses are eliminated).
- Efficiency: your system works more efficiently because error messages indicate leakage or blockage of the steam trap.
- Reliability: the temperature gauge is exceptionally reliable (insensitive to deposits on the sensor, e.g. magnetite).
- Economy: prompt error reporting extends the lifetime of your system and guarantees trouble-free production processes (preventing water hammer and saving energy).
- Convenience: Optimum handling because there is no need for a separate handheld unit (a local indication is always provided) and you can define variable temperature ranges.



