Salzare Steam Solutions Product Catalogue

As the official West African representative agency for VALSTEAM ADCA, we offer their complete range of high-quality steam system products. Below you'll find our comprehensive product catalogue.

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Complementary Equipment

- CDV32 Condensate drain valve
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- AFE Anti-freeze device

Pressure Regulators +

High-quality pressure reducing, sustaining, and blanketing valves for steam, air, water and other gases/liquids.

Pressure Reducing Valves

- PRV25 Direct acting for steam, air, water and other gases/liquids
- RP45 Single seated, bellows sealed without auxiliary energy
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- PS46 Single seated, bellows sealed without auxiliary energy
- PSW46B Diaphragm or piston sensing proportional controllers
- PS47 Pilot operated for maintaining upstream pressure
- PS4 Direct acting, spring-loaded diaphragm sensing

Blanketing Valves

- BKR12 Tank blanketing valves for storage systems
- BKV12 Tank blanketing valves for explosion protection

Pressure Reducing Stations

- RP45TW Parallel valve system for significant consumption variation

Control Valves +

Precision control valves for process engineering and industrial applications with pneumatic, hydraulic, or electric actuators.

Two-Way Control Valves

- Y162 Single seated, two-way globe control valves
- Y362 For applications with erosion, cavitation or flashing
- PY15 Pneumatic cutoff globe valves with diaphragm actuator
- PPV15 Pneumatic cutoff globe valves with piston actuator
- PAV21 Pneumatic angle and gate valves with piston actuators
- EY15 Electric cutoff globe valves with electric actuator

Three-Way Control Valves

- V303 Three-way globe control valves for mixing and diverting
- V253 Three-way globe valves for general service applications
- PV403 Three-way valve body for mixing service

Valves for Special Applications

- VPA26/2 Blowdown valves for steam boilers
- VPC26 TDS control applications in steam boilers
- OVF40 Overflow valves for closed loop systems

Pneumatic and Electric Linear Actuators

- PAR – PARF Pneumatic multi-spring actuators with rolling diaphragm
- PARM – PAMM Pneumatic multi-spring actuators for modulating services
- EL Electric linear actuator for modulating duty
- ELS Electric linear actuator for control valves
- ELK Electric linear actuator with spring-driven fail-safe

•MAH Manual linear actuators with hand-wheel

Self-Acting Temperature Control Valves

- TR Direct-acting temperature control valves
- TR25/R Temperature control valves for cooling systems

Instrumentation

- BCS220 Blowdown controller for steam boilers
- PCSI Pressure transmitters for industrial applications
- SPS21 Conductivity probe for steam applications
- SPS33 Conductivity probe for boiler water measurement
- UD-720b Programmable digital panel display
- UC-820 Digital universal controller for industrial processes
- PCLS Signal converter from analog to pneumatic
- PPSS1 Pneumatic positioner for control valves
- PPSS6 Pneumatic positioner with 4-20mA input

Pipeline Ancillaries +

Comprehensive range of pipeline accessories including air vents, strainers, sight glasses, and valves for complete system protection.

Air and Gas Float Traps

- SG IRON Fully automatic ball float traps in SG iron
- CARBON STEEL Fully automatic ball float traps in carbon steel
- STAINLESS STEEL Fully automatic ball float traps in stainless steel
- CAD Compressed air automatic drain valve with timer

Automatic Air and Gas Vents for Liquid Systems

- CARBON STEEL Air and gas vents for liquid systems in carbon steel
- STAINLESS STEEL Air and gas vents for liquid systems in stainless steel

Vacuum Breakers

•VB21 - VB21M Vacuum breakers for steam heated units
•VB17 Vacuum breakers for pipelines and vessels

Pipeline Strainers

•IS140 Y strainers for steam, water, oil and air systems
•IS116 Forged steel Y strainers
•IS147 Cast iron Y strainers
•IS147 (EN) Cast steel T strainers - European standards
•IS147 (ASME) Cast steel T strainers - ASME standards

Sight Glasses

- SW12 Single window sight glasses for steam trap monitoring
- DW40 Double window sight glasses in carbon steel
- DW12 Double window sight glasses in cast iron and stainless steel
- SCKI Sight checkers with integrated check valve function

Non-Return Valves

- RT25 All stainless steel disc check valves
- RD40 Disc check valves for steam and hot condensate

Isolation Valves

- M3B Reduced bore three-piece ball valves
- M3H Full bore three-piece ball valves
- M3SH Full bore three-piece ball valves in zinc plated carbon steel
- M3W1 / MW1 Wafer type ball valves
- SM1 Spring return handles for ball valves

Pressure and Level Gauges, Cocks and Siphons

- NYMP High pressure needle valves for gauge isolation
- CCBB Gauge isolation valves for instrument protection
- LCC-019bCompact level gauge for pressure vessels

Special Equipment +

Comprehensive range of specialized equipment including pumps, separators, heat exchangers, and boiler house equipment for complete industrial solutions.

ADCAMAT Pumps and Pump Traps

- POP Pressure Operated Pump for high-temperature liquids
- POPS-K Packaged pump units for condensate and other liquids
- POP-LC Low capacity pressure operated pump
- PPT14 Automatic pump trap for condensate discharge
- PPT-K (Simplex) Packaged pump trap unit for condensate systems
- ANST Automatic pump trap for poor return line conditions

Humidity Separators

- S16 Centrifugal separators for steam and compressed air
- S25 Centrifugal moisture separators
- SF251 Centrifugal separators with flanged connections
- SH25b Horizontal centrifugal separators

Sample Coolers

- SC32 / SC132 Sample coolers for boiler water analysis
- SC32F / SC132F Sample coolers with specific connection sizes
- SC32B / SC132B Sample coolers for pressurized liquid samples
- SC332 - SC532 High-pressure sample coolers

Direct Steam Humidifiers

- DSH Direct steam injection humidifiers for air ducts

Steam Injectors

- SI20 Low-noise direct steam injectors
- SI21Rapid heating steam injectors
- SI23 Direct steam injectors for basins and vessels

Steam-Water Mixers

- MX20 Steam-water mixers for instant hot water
- SG20 Water-saving guns for steam-water mixers

Packaged Units/Skids

- ECRU Electric condensate recovery units
- ECRUV Vertical electric condensate recovery units
- PWHU Packaged water heating units
- FRECO Flash steam heat recovery units

ADCA THERM Heat Exchangers

- STS Steam to water shell and tube heat exchangers
- STH Shell and tube heat exchangers
- STV Steam to water shell and tube heat exchangers
- PAT Plate heat exchangers
- R SERIES Steam to water tubular heating coils

Boiler House Equipment

- RV Flash vessel for flash recovery systems
- RVST Flash vessel with specific sizing
- ADC Atmosphere deaerators for boiler feed water
- TDC Tray-type thermal deaerators
- FCD Flash condensing heads for energy efficiency

Complementary Equipment

- AS Centrifugal air and dirt separators
- MLI Magnetic level indicators
- INCC Cooling device for condensate mixing
- KH Exhaust heads for steam exhaust protection
- LIPO Condensate lifting pipes

Product Details

DT40R Thermodynamic Steam Trap

The ADCA DT40R thermodynamic disc steam traps are compact and lightweight-easy to install traps, excellent for high pressure systems, including steam tracing applications. The insulation cover ensures a consistent operation and makes it particularly suitable for those applications where the weather conditions, such as rain and wind, may affect the normal operation. These traps have only one moving part and offer a wide operating range, without adjustment.

Stainless steel

3/8" to 1" - DN 10 to DN 25

Female threaded ISO 7 Rp or NPTFlanged EN 1092-1 HV-60Flanged ASME Class 150 or 300Socket weld (SW) ASME EN6.11Butt weld (BW) ASME EN4.2 on request

40 bar

300 °C

Up to 740 kg/h

MATERIAL	Stainless steel
SIZES	3/8" to 1" - DN 10 to DN 25
CONNECTIONS	Female threaded ISO 7 Rp or NPT Flanged EN 1092-1 HV-60 Flanged ASME Class 150 or 300 Socket weld (SW) ASME EN6.11 Butt weld (BW) ASME EN4.2 on request
MAX OPERATING PRESSURE	40 bar
MAX OPERATING TEMPERATU RE	300 °C
FLOW RATE CAPACITY	Up to 740 kg/h

DT42/2 Thermodynamic Steam Trap

The ADCA DT42/2 thermodynamic disc steam traps are compact and lightweight- easy to install traps, excellent for high pressure systems, including steam tracing applications. These traps have only one moving part and offer a wide operating range, without adjustment.

Carbon steel

1/2" to 1" - DN 15 to DN 25

Female threaded ISO 7 Rp or NPTFlanged EN 140 or PN-63Flanged ASME Class 150 or 300Socket weld (SW) ASME EN6.11Butt weld (BW) ASME EN4.2 on request

42 bar

300 °C

Up to 1000 kg/h

MATERIAL	Carbon steel
SIZES	1/2" to 1" - DN 15 to DN 25
CONNECTIONS	Female threaded ISO 7 Rp or NPT Flanged EN 140 or PN-63 Flanged ASME Class 150 or 300 Socket weld (SW) ASME EN6.11 Butt weld (BW) ASME EN4.2 on request
MAX OPERATING PRESSURE	42 bar
MAX OPERATING TEMPERATUR E	300 °C
FLOW RATE CAPACITY	Up to 1000 kg/h

DT46R Thermodynamic Steam Trap

The ADCA DT46R thermodynamic disc steam traps are compact and lightweight-easy to install traps, excellent for high pressure systems, including steam tracing applications. The insulation cover ensures a consistent operation and makes it particularly suitable for those applications where the weather conditions, such as rain and wind, may affect the normal operation. These traps have only one moving part and offer a wide operating range, without adjustment.

Carbon steel

1/2" to 1" - DN 15 to DN 25

Female threaded ISO 7 Rp or NPTFlanged EN 1092-1 HV-60, PNFlanged ASME EN 6.5 Class 150Socket weld (SW) ASME EN 4.0Butt weld (BW) ASME EN 6.2 on request

40 bar

400 °C

Up to 800 kg/h

MATERIAL	Carbon steel
SIZES	1/2" to 1" - DN 15 to DN 25
CONNECTIONS	Female threaded ISO 7 Rp or NPT Flanged EN 1092-1 HV-60, PN Flanged ASME EN 6.5 Class 150 Socket weld (SW) ASME EN 4.0 Butt weld (BW) ASME EN 6.2 on request
MAX OPERATING PRESSURE	40 bar
MAX OPERATING TEMPERATUR E	400 °C
FLOW RATE CAPACITY	Up to 800 kg/h

SG IRON Float and Thermostatic Steam Traps

ADCA FLT line of float and thermostatic steam traps manufactured in SG iron and designed for all types of low and high-pressure applications. The available models cover a wide range of flow rates and pressure drops, in various sizes, with different connections and multiple options to choose from.

SG Iron

Low and high-pressure applications

Wide range of flow rates and pressure dropsVarious sizes available Multiple connection options

MATERIAL	SG Iron
APPLICATIONS	Low and high-pressure applications
FEATURES	Wide range of flow rates and pressure drops Various sizes available Multiple connection options

CARBON STEEL Float and Thermostatic Steam Traps

ADCA FLT line of float and thermostatic steam traps manufactured in carbon steel and designed for all types of low and high-pressure applications. The available models cover a wide range of flow rates and pressure drops, in various sizes, with different connections and multiple options to choose from.

Carbon Steel

Low and high-pressure applications

Wide range of flow rates and pressure drops Various sizes available Multiple connection options

MATERIAL	Carbon Steel
APPLICATIONS	Low and high-pressure applications
FEATURES	Wide range of flow rates and pressure drops Various sizes available Multiple connection options

STAINLESS STEEL Float and Thermostatic Steam Traps

ADCA FLT line of float and thermostatic steam traps manufactured in stainless steel and designed for all types of low and high-pressure applications. The available models cover a wide range of flow rates and pressure drops, in various sizes, with different connections and multiple options to choose from.

Stainless Steel

Low and high-pressure applications

Wide range of flow rates and pressure drops Various sizes available Multiple connection options

MATERIAL	Stainless Steel
APPLICATIONS	Low and high-pressure applications
FEATURES	Wide range of flow rates and pressure drops Various sizes available Multiple connection options

FABRICATED STEEL Float and Thermostatic Steam Traps

ADCA FLT line of float and thermostatic steam traps manufactured in fabricated carbon steel and designed for various high capacity applications. The available models cover a wide range of flow rates in various sizes, with different connections and multiple options to choose from.

Fabricated Carbon

Steel High capacity

applications

Wide range of flow ratesVarious sizes availableMultiple connection options

MATERIAL	Fabricated Carbon Steel
APPLICATIONS	High capacity applications
FEATURES	Wide range of flow rates Various sizes available Multiple connection options

IB12 Inverted Bucket Steam Trap

The ADCA IB12 is a series of general purpose robust and versatile inverted bucket steam traps manufactured in SG iron. These steam traps operate intermittently and are suitable for use with saturated or superheated steam. Typical applications include drip points, steam tracing lines, dryers, chemical and laundry equipment.

SG Iron

1/2" and 3/4" - DN 15 and DN 20

Female threaded ISO 7 Rp or NPT Flanged EN 10252 PN 16Flanged

ASME EN 6.2 Class 150 14 bar

198 °C

Up to 600 kg/h

MATERIAL	SG Iron
SIZES	1/2" and 3/4" - DN 15 and DN 20
CONNECTIONS	Female threaded ISO 7 Rp or NPT Flanged EN 10252 PN 16 Flanged ASME EN 6.2 Class 150
MAX OPERATING PRESSURE	14 bar
MAX OPERATING TEMPERATUR E	198 °C
FLOW RATE CAPACITY	Up to 600 kg/h

IB812 Inverted Bucket Steam Trap

The ADCA IB812 is a series of general purpose robust and versatile inverted bucket steam traps manufactured in SG iron. These steam traps operate intermittently and are suitable for use with saturated or superheated steam. Typical applications include drip points, steam tracing lines, dryers, chemical and laundry equipment.

SG Iron

3/4" to 1" - DN 20 to DN 25

Threaded ISO 7 Rp or

NPT 14 bar

198 °C

Up to 1,000 kg/h

MATERIAL	SG Iron
SIZES	3/4" to 1" - DN 20 to DN 25
CONNECTIONS	Threaded ISO 7 Rp or NPT
MAX OPERATING PRESSURE	14 bar
MAX OPERATING TEMPERATURE	198 °C
FLOW RATE CAPACITY	Up to 1,000 kg/h

IB30 Inverted Bucket Steam Trap

The ADCA IB30 is a series of general purpose robust and versatile inverted bucket steam traps. These steam traps operate intermittently and are suitable for use with saturated or superheated steam. Typical applications include drip points, steam tracing lines, dryers, chemical and laundry equipment.

Drip points, steam tracing lines, dryers, chemical and

laundry equipment Intermittent operation

Saturated or superheated steam

APPLICATIONS	Drip points, steam tracing lines, dryers, chemical and laundry equipment
OPERATION	Intermittent operation
STEAM TYPE	Saturated or superheated steam

IB36 Inverted Bucket Steam Trap

The ADCA IB36 is a series of robust and versatile inverted bucket steam traps. These steam traps operate intermittently and are suitable for use with low to high pressure saturated or superheated steam. Typical applications include drip points, steam tracing lines, dryers, chemical and laundry equipment.

Drip points, steam tracing lines, dryers, chemical and

laundry equipment Intermittent operation

Low to high pressure saturated or superheated steam

APPLICATIONS	Drip points, steam tracing lines, dryers, chemical and laundry equipment
OPERATION	Intermittent operation
STEAM TYPE	Low to high pressure saturated or superheated steam

TH13A Thermostatic Steam Trap

The ADCA TH13A series of thermostatic steam traps are specifically designed for use on process equipment such as heat exchangers, autoclaves, food, chemical and laundry equipment. Their compact design with various connections makes them suitable for all heating applications.

Bras

s

1/2"

Female threaded ISO 7 Rp or NPT

1.5 bar

350 °C

10 to 80 kg/h

MATERIAL	Brass
SIZES	1/2"
CONNECTIONS	Female threaded ISO 7 Rp or NPT
MAX OPERATING PRESSURE	1.5 bar
MAX OPERATING TEMPERATUR E	350 °C
FLOW RATE CAPACITY	10 to 80 kg/h

TH22 Thermostatic Steam Trap

The ADCA TH22 series of balanced pressure thermostatic steam traps are specifically designed for use on process equipment such as autoclaves and other specialties, bottle coolers, food, chemical and laundry equipment.

Carbon

steel 1/2"

to 1"

Female threaded ISO 7 Rp

or NPT 25 bar

230 °C

10 to 197 kg/h

MATERIAL	Carbon steel
SIZES	1/2" to 1"
CONNECTIONS	Female threaded ISO 7 Rp or NPT
MAX OPERATING PRESSURE	25 bar
MAX OPERATING TEMPERATUR E	230 °C
FLOW RATE CAPACITY	10 to 197 kg/h

TH23 Thermostatic Steam Trap

The ADCA TH23 line of thermostatic steam traps are specifically designed for use on process equipment such as heat exchangers, autoclaves, food, chemical and laundry equipment.

Heat exchangers, autoclaves, food, chemical and laundry

equipment Compact design with various connections

APPLICATIONS	Heat exchangers, autoclaves, food, chemical and laundry equipment
DESIGN	Compact design with various connections

TH21 Thermostatic Steam Trap

The ADCA TH21 series thermostatic steam traps are specifically designed for use on process equipment such as heat exchangers, autoclaves, food, chemical and laundry equipment.

Carbon

steel 1/2" -

DN 15

Female threaded ISO 7 Rp or NPTFlanged EN 1092-1 PN 25Flanged ASME B16.5 Class 150Socket weld (SW) ASME B16.11Butt weld (BW) ASME B16.25

21 bar

230 °C

10 to 795 kg/h

MATERIAL	Carbon steel
SIZES	1/2" - DN 15
CONNECTIONS	Female threaded ISO 7 Rp or NPT Flanged EN 1092-1 PN 25 Flanged ASME B16.5 Class 150 Socket weld (SW) ASME B16.11 Butt weld (BW) ASME B16.25
MAX OPERATING PRESSURE	21 bar
MAX OPERATING TEMPERATUR E	230 °C
FLOW RATE CAPACITY	10 to 795 kg/h

BM20 Bimetallic Steam Trap

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

Carbon steel

1/2" to 1" - DN 15 to DN 25

Female threaded ISO 7 Rp or NPTFlanged EN 1092-1 PN 40 or PN 63Flanged ASME B16.5 Class 300 or 600Socket weld (SW) ASME B16.11Butt weld (BW) ASME B16.25

45 bar

425 °C

Up to 4100 kg/h

MATERIAL	Carbon steel
SIZES	1/2" to 1" - DN 15 to DN 25
CONNECTIONS	Female threaded ISO 7 Rp or NPT Flanged EN 1092-1 PN 40 or PN 63 Flanged ASME B16.5 Class 300 or 600 Socket weld (SW) ASME B16.11 Butt weld (BW) ASME B16.25
MAX OPERATING PRESSURE	45 bar
MAX OPERATING TEMPERATUR E	425 °C
FLOW RATE CAPACITY	Up to 4100 kg/h

BM24 Bimetallic Steam Trap

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

Carbon steel

1/2" to 1" - DN 15 to DN 25

Female threaded ISO 7 Rp or NPTFlanged EN 1092-1 PN 100Flanged ASME B16.5 Class 600Socket weld (SW) ASME B16.11Butt weld (BW) ASME B16.25

85 bar

500 °C

Up to 5800 kg/h

MATERIAL	Carbon steel
SIZES	1/2" to 1" - DN 15 to DN 25
CONNECTIONS	Female threaded ISO 7 Rp or NPT Flanged EN 1092-1 PN 100 Flanged ASME B16.5 Class 600 Socket weld (SW) ASME B16.11 Butt weld (BW) ASME B16.25
MAX OPERATING PRESSURE	85 bar
MAX OPERATING TEMPERATUR E	500 °C
FLOW RATE CAPACITY	Up to 5800 kg/h

BM32 Bimetallic Steam Trap

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

Carbon steel

1/2" to 1" - DN 15 to DN 25

Female threaded ISO 7 Rp or NPTFlanged EN 1092-1 PN 160Flanged ASME B16.5 Class 900Socket weld (SW) ASME B16.11Butt weld (BW) ASME B16.25

110 bar

525 °C

Up to 6500 kg/h

MATERIAL	Carbon steel
SIZES	1/2" to 1" - DN 15 to DN 25
CONNECTIONS	Female threaded ISO 7 Rp or NPT Flanged EN 1092-1 PN 160 Flanged ASME B16.5 Class 900 Socket weld (SW) ASME B16.11 Butt weld (BW) ASME B16.25
MAX OPERATING PRESSURE	110 bar
MAX OPERATING TEMPERATURE	525 °C
FLOW RATE CAPACITY	Up to 6500 kg/h

BM87 Bimetallic Steam Trap

The ADCA BM87 is a series of robust and efficient bimetallic steam traps and air vents. These steam traps are recommended for steam process applications where sensible heat can be recovered, such as steam tracing lines, drip points, storage tank coils and steam air venting.

Carbon steel

1/2" to 1" - DN 15 to DN 25

Female threaded ISO 7 Rp or NPTFlanged EN 1092-1 PN 250Flanged ASME B16.5 Class 1500Socket weld (SW) ASME B16.11Butt weld (BW) ASME B16.25

160 bar

525 °C

Up to 4500 kg/h

MATERIAL	Carbon steel
SIZES	1/2" to 1" - DN 15 to DN 25
CONNECTIONS	Female threaded ISO 7 Rp or NPT Flanged EN 1092-1 PN 250 Flanged ASME B16.5 Class 1500 Socket weld (SW) ASME B16.11 Butt weld (BW) ASME B16.25
MAX OPERATING PRESSURE	160 bar
MAX OPERATING TEMPERATURE	525 °C
FLOW RATE CAPACITY	Up to 4500 kg/h

BM88 Bimetallic Steam Trap

The ADCA BM88 is a series of robust and efficient bimetallic steam traps and air vents. These steam traps are recommended for steam process applications where sensible heat can be recovered, such as steam tracing lines, drip points, storage tank coils and steam air venting. Specially designed for draining high pressure superheated steam lines and processes.

Stainless

steel 1/2"

Female threaded ISO 7 Rp

or NPT 20 bar

250 °C

Up to 1120 kg/h

MATERIAL	Stainless steel
SIZES	1/2"
CONNECTIONS	Female threaded ISO 7 Rp or NPT
MAX OPERATING PRESSURE	20 bar
MAX OPERATING TEMPERATURE	250 °C
FLOW RATE CAPACITY	Up to 1120 kg/h

BM89 Bimetallic Steam Trap

The ADCA BM89 is a series of robust and efficient bimetallic steam traps and air vents. These steam traps are recommended for steam process applications where sensible heat can be recovered, such as steam tracing lines, drip points, storage tank coils and steam air venting. Specially designed for draining high pressure superheated steam lines and processes.

Steam tracing lines, drip points, storage tank coils, steam

air venting Designed for high pressure superheated steam

lines

APPLICATIONS	Steam tracing lines, drip points, storage tank coils, steam air venting
SPECIAL FEATURE	Designed for high pressure superheated steam lines

BM90 Bimetallic Steam Trap

The ADCA BM90 is a series of robust and efficient bimetallic steam traps and air vents. These steam traps are recommended for steam process applications where sensible heat can be recovered, such as steam tracing lines, drip points, storage tank coils and steam air venting. Specially designed for draining high pressure superheated steam lines and processes.

Steam tracing lines, drip points, storage tank coils, steam air venting Designed for high pressure superheated steam lines

APPLICATIONS	Steam tracing lines, drip points, storage tank coils, steam air venting
SPECIAL FEATURE	Designed for high pressure superheated steam lines

BSS20 Bimetallic Steam Trap

The ADCA BSS20 is a series of robust and efficient bimetallic steam traps and air vents. Their compact design makes them ideal for air venting applications and condensate removal in small steam consumers.

Air venting applications, condensate removal in small

steam consumers Compact design

APPLICATIONS	Air venting applications, condensate removal in small steam consumers
DESIGN	Compact design

BM-HC Bimetallic Steam Trap

The BM-HC series of bimetallic steam traps and air vents are simple and robust traps, recommended for process applications where high loads are involved. Tailor made to meet application requirements and supplied with several bimetallic regulators in order to achieve the required discharge capacity for the application in hands.

Carbon steel

1-1/2" to 5" - DN 40 to DN 125

Flanged EN 1092-1 PN 63Flanged ASME B16.5 Class

900Others on request 63 bar

300 °C

MATERIAL	Carbon steel
SIZES	1-1/2" to 5" - DN 40 to DN 125
CONNECTIONS	Flanged EN 1092-1 PN 63 Flanged ASME B16.5 Class 900 Others on request
MAX OPERATING PRESSURE	63 bar
MAX OPERATING TEMPERATUR E	300 °C

UCN Universal Connector

The UCN universal connector system provides a versatile solution for steam trap installations with easy maintenance access.

Stainless steel

1/2" to 1" - DN 15 to DN 25

Female threaded ISO 7 Rp

or NPT 17 bar

183 °C

MATERIAL	Stainless steel
SIZES	1/2" to 1" - DN 15 to DN 25
CONNECTIONS	Female threaded ISO 7 Rp or NPT
MAX OPERATING PRESSURE	17 bar
MAX OPERATING TEMPERATURE	183 °C

UCN9 Universal Connector

The UCN9 is a complete and efficient universal connector designed to be used as an alternative to traditional installations, simplifying maintenance and reducing installation costs.

1/2" to 1" - DN 15 to DN 25

Female threaded ISO 7 Rp or NPTFlanged EN 1092-1 PN 40Flanged ASME B16.5 Class 300Socket weld (SW) ASME B16.11Butt weld (BW) ASME B16.25

SIZES	1/2" to 1" - DN 15 to DN 25
CONNECTIONS	Female threaded ISO 7 Rp or NPT Flanged EN 1092-1 PN 40 Flanged ASME B16.5 Class 300 Socket weld (SW) ASME B16.11 Butt weld (BW) ASME B16.25

UCON Universal Connector

The UCON universal connector provides high-performance offerings for steam trap installations.

According to the selected pipeline

connector 20 bar

240 °C

Up to 48 kg/h

SIZES	According to the selected pipeline connector
MAX OPERATING PRESSURE	20 bar
MAX OPERATING TEMPERATURE	240 °C
FLOW RATE CAPACITY	Up to 48 kg/h

UD08 Universal Steam Trap

The UD08 universal steam trap is designed for frequent tropical storm applications, comprising the pipeline built and streamlined design. These traps operate intermittently and are suitable for high-pressure saturated or superheated steam applications.

According to the selected pipeline

connector 24 bar

400 °C

Up to 45 kg/h

SIZES	According to the selected pipeline connector
MAX OPERATING PRESSURE	24 bar
MAX OPERATING TEMPERATURE	400 °C
FLOW RATE CAPACITY	Up to 45 kg/h

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UYEU Universal Steam Trap

The UYEU universal steam trap provides efficient transport services across various applications, increasing customer cost-effectiveness and delivering reliable performance.

According to the selected pipeline

connector 10 bar

240 °C

Up to 45 kg/h

SIZES	According to the selected pipeline connector
MAX OPERATING PRESSURE	10 bar
MAX OPERATING TEMPERATURE	240 °C
FLOW RATE CAPACITY	Up to 45 kg/h

UCX90 Four-Bolt Universal Connector

The UCX series pipeline connectors are used in steam systems where a simple and economic maintenance program is desired. Typical installations are drip service on steam lines, tracing applications and small process equipment. The four-bolt flange connector allows for fast trap replacement without disturbing the pipelines. The UCX connector fits the universal four-bolt swivel connection steam traps.

Stainless steel

1/2" to 1" - DN 15 to DN 25

Female threaded ISO 7 Rp or NPTFlanged EN 1092-1 PN 100Flanged ASME B16.5 Class 600Socket weld (SW) ASME B16.11

MATERIAL	Stainless steel
SIZES	1/2" to 1" - DN 15 to DN 25
CONNECTIONS	Female threaded ISO 7 Rp or NPT Flanged EN 1092-1 PN 100 Flanged ASME B16.5 Class 600 Socket weld (SW) ASME B16.11

UBS90 Bimetallic Steam Trap

The UniADCA UBS90 series bimetallic steam traps and air eliminators, completely in stainless steel, are maintenance free and sealed traps. Simple and robust, they are recommended for drip service, steam tracing applications and where condensate sensible heat can be recovered. These traps fit the UCX90 four bolt universal connectors.

Stainless steel

According to the selected pipeline

connector Up to 5400 kg/h

MATERIAL	Stainless steel
SIZES	According to the selected pipeline connector
FLOW RATE CAPACITY	Up to 5400 kg/h

CDV32 Condensate Drain Valve

The ADCA CDV32 condensate drain valve automatically discharges air and condensate from steam systems during start-up. A compression spring keeps the valve open when the system is not pressurized. As soon as the operating pressure reaches the closing pressure to which the CDV is set, the valve closes. If the opening pressure drops below the closing set pressure, the spring force will cause the CDV32 to open once again.

Carbon steel

1/2" and 3/4" - DN 15 and DN 20

Female threaded ISO 7 Rp or NPTFlanged EN 1092-1 PN 16Flanged ASME B16.5 Class 150Socket weld (SW) ASME B16.11 on requestButt weld (BW) ASME B16.25 on request

22 bar

250 °C

Up to 700 kg/h

MATERIAL	Carbon steel
SIZES	1/2" and 3/4" - DN 15 and DN 20
CONNECTIONS	Female threaded ISO 7 Rp or NPT Flanged EN 1092-1 PN 16 Flanged ASME B16.5 Class 150 Socket weld (SW) ASME B16.11 on request Butt weld (BW) ASME B16.25 on request
MAX OPERATING PRESSURE	22 bar
MAX OPERATING TEMPERATUR E	250 °C
FLOW RATE CAPACITY	Up to 700 kg/h

DF Noise Diffuser

The ADCA DF noise diffusers are designed to disperse the high-speed discharge from steam or air traps downwards for noise reduction and reducing erosion. These compact devices are typically installed downstream of intermittent steam traps, such as thermostatic or inverted bucket, which are generally associated with high-speed blast discharges. Noise reduction greater than 50% can be expected when measured at 1 meter away from the source.

Carbon

steel 1/2"

or 1

"

Female threaded ISO

7 Rp 32 bar

250 °C

MATERIAL	Carbon steel
SIZES	1/2" or 1"
CONNECTIONS	Female threaded ISO 7 Rp
MAX OPERATING PRESSURE	32 bar
MAX OPERATING TEMPERATUR E	250 °C

BDV Blowdown Valve

The ADCA BDV, AFE and HVV valves are designed to drain (blowdown) or vent (depressurize) pipework, steam traps, valves and others. BDV - Blowdown valves - Manual discharge of trapped condensate and generally to be used as a drain and/or depressurization valve.

Carbon

steel 1/4"

and 1/2"

NPT 1/4"NPT 1/2"Metric

thread pitch 42 bar

400 °C

MATERIAL	Carbon steel
SIZES	1/4" and 1/2"
CONNECTIONS	NPT 1/4" NPT 1/2" Metric thread pitch
MAX OPERATING PRESSURE	42 bar
MAX OPERATING TEMPERATUR E	400 °C

HVV Hand-Vent Valve

The ADCA BDV, AFE and HVV valves are designed to drain (blowdown) or vent (depressurize) pipework, steam traps, valves and others. HVV - Hand-vent valves - Venting of air traps and generally to be used as a vent or depressurization valve.

Carbon

steel 1/4"

and 1/2"

NPT 1/4"NPT 1/2"Metric

thread pitch 42 bar

400 °C

MATERIAL	Carbon steel
SIZES	1/4" and 1/2"
CONNECTIONS	NPT 1/4" NPT 1/2" Metric thread pitch
MAX OPERATING PRESSURE	42 bar
MAX OPERATING TEMPERATUR E	400 °C

AFE Anti-Freeze Device

The ADCA BDV, AFE and HVV valves are designed to drain (blowdown) or vent (depressurize) pipework, steam traps, valves and others. AFE - Anti-Freeze device - Automatic handling of condensate from steam traps, valves, pipelines and others, to prevent the condensate from freezing inside.

Carbon

steel 1/4"

and 1/2"

NPT 1/4"NPT 1/2"Metric

thread pitch 42 bar

400 °C

MATERIAL	Carbon steel
SIZES	1/4" and 1/2"
CONNECTIONS	NPT 1/4" NPT 1/2" Metric thread pitch
MAX OPERATING PRESSURE	42 bar
MAX OPERATING TEMPERATUR E	400 °C

PS46 Pressure Reducing Valve

The ADCA PRV25 is a series of direct acting pressure reducing valves designed for use on steam, compressed air, water and other gases and liquids. These regulators are suitable for reducing steam pressure at the point of use on laundry machines, dyeing, food industries, sterilizers, etc.

Carbon steel or stainless steel

1/2" to 1" - DN 15 to 25

Threaded ISO 7 RpFlanged EN PN 25Flanged ASME Class 150 or 300

Up to 17 bar

Up to 210°C

0.35 to 8.6 bar

1.7 to 3.1 Kvs

MATERIAL	Carbon steel or stainless steel
SIZES	1/2" to 1" - DN 15 to 25
CONNECTIONS	Threaded ISO 7 Rp Flanged EN PN 25 Flanged ASME Class 150 or 300
MAX. UPSTREAM PRESSURE	Up to 17 bar
MAX. DESIGN TEMPERATURE	Up to 210°C
REGULATING RANGE	0.35 to 8.6 bar
FLOW RATE COEFFICIENTS	1.7 to 3.1 Kvs

RP45 Pressure Reducing Valve

The ADCA RP45 series of pressure reducing valves are single seated, bellows sealed that operate without auxiliary energy. Designed for use with steam, compressed air, and other gases compatible with the construction. These valves are particularly suitable for reducing steam pressure in all energy and process systems where pressures must be kept under control.

SG Iron, carbon steel or

stainless steel DN 50 to DN

100

Flanged EN 1092-1 PN 16

or PN 40 Up to 40 bar

130°C

0.2 to 18 bar

26.5 to 129.5 Kvs (m^3/h)

MATERIAL	SG Iron, carbon steel or stainless steel
SIZES	DN 50 to DN 100
CONNECTIONS	Flanged EN 1092-1 PN 16 or PN 40
MAX. UPSTREAM PRESSURE	Up to 40 bar
MAX. OPERATING TEMPERATURE	130°C
REGULATING RANGE	0.2 to 18 bar
FLOW RATE COEFFICIENTS	26.5 to 129.5 Kvs (m^3/h)

RPW45B Pressure Reducing Valve

The ADCA RPW45B series of pressure reducing valves are single seated, diaphragm sensing proportional controllers that operate without auxiliary energy. Designed for use with water, compressed air and other liquids and gases compatible with the construction.

Carbon steel or

stainless steel DN 15

to DN 100

Flanged EN 1092-1 PN 16 or PN 40

28 bar

250°C

0.07 to 17 bar

MATERIAL	Carbon steel or stainless steel
SIZES	DN 15 to DN 100
CONNECTIONS	Flanged EN 1092-1 PN 16 or PN 40
MAX. UPSTREAM PRESSURE	28 bar
MAX. OPERATING TEMPERATURE	250°C
REGULATING RANGE	0.07 to 17 bar

PRV57 Pressure Reducing Valve

The ADCA PRV57 pilot operated pressure reducing valves are designed for use with steam, compressed air, nitrogen and other gases compatible with the construction materials. The PRV57 can be installed in pressure reducing stations throughout all industries, and provide sensitive and accurate control even when inlet pressure fluctuations or relevant flow variations occur.

Carbon steel or stainless steel

1/2" to 2" - DN 15 to DN 50

Threaded ISO 7 Rp or NPTFlanged EN PN 40Flanged ASME Class 150 or 300Socket Weld (SW) ASME B16.11

28 bar

250°C

0.07 to 17 bar

MATERIAL	Carbon steel or stainless steel
SIZES	1/2" to 2" - DN 15 to DN 50
CONNECTIONS	Threaded ISO 7 Rp or NPT Flanged EN PN 40 Flanged ASME Class 150 or 300 Socket Weld (SW) ASME B16.11
MAX. UPSTREAM PRESSURE	28 bar
MAX. OPERATING TEMPERATURE	250°C
REGULATING RANGE	0.07 to 17 bar

PRV47 Pressure Reducing Valve

The ADCA PRV47 pilot operated pressure reducing valves are designed for use with steam, compressed air, nitrogen and other gases compatible with the construction materials. The PRV47 can be installed in pressure reducing stations throughout all industries and provides sensitive and accurate control even when inlet pressure fluctuations or flow variations occur.

Stainless

steel 1/4"

and 3/8"

Threaded ISO 7 Rp or

NPT 25 bar (steam),

31 bar (gases) 300°C

0.35 to 17 bar

1 or 1.1 Kvs (m^3/h)

MATERIAL	Stainless steel
SIZES	1/4" and 3/8"
CONNECTIONS	Threaded ISO 7 Rp or NPT
MAX. UPSTREAM PRESSURE	25 bar (steam), 31 bar (gases)
MAX. DESIGN TEMPERATURE	300°C
REGULATING RANGE	0.35 to 17 bar
FLOW RATE COEFFICIENTS	1 or 1.1 Kvs (m^3/h)

P7 Pressure Reducing Valve

The ADCA P7 series direct-acting, spring-loaded diaphragm sensing pressure reducing valves, are designed for use with steam, compressed air and other gases compatible with the materials of construction. They are suitable for pressure reducing stations where very small loads are involved. They are also specifically recommended to operate as pilot valves in combination with other pressure regulators.

Stainless steel

1/4" to 1/2" - DN 15

Female threaded ISO 7 Rp, ISO 228 or NPTFlanged EN 1092-1 PN 40Flanged ASME B16.5 Class 150 or 300

50 bar

80°C

0.2 to 15 bar

1.2 to 18 Kvs

MATERIAL	Stainless steel
SIZES	1/4" to 1/2" - DN 15
CONNECTIONS	Female threaded ISO 7 Rp, ISO 228 or NPT Flanged EN 1092-1 PN 40 Flanged ASME B16.5 Class 150 or 300
MAX. UPSTREAM PRESSURE	50 bar
MAX. DESIGN TEMPERATURE	80°C
REGULATING RANGE	0.2 to 15 bar
FLOW RATE COEFFICIENTS	1.2 to 18 Kvs

P20D Pressure Reducing Valve

The ADCA P20D is a series of direct acting, spring-loaded, diaphragm sensing and balanced plug pressure reducing valves. These regulators are designed for use with compressed air, water and other gases and liquids compatible with the construction materials and valve design. They are suitable for pressure reducing applications at the point of use in laundry and dyeing machines, food industries, sterilizers, etc.

Stainless steel

1/4" to 1/2" - DN 15

Female threaded ISO 7 Rp, ISO 228 or NPTFlanged EN 1092-1 PN 40Flanged ASME B16.5 Class 150 or 300

14 bar

200°C

0.2 to 8 bar

1.2 to 18 Kvs

MATERIAL	Stainless steel
SIZES	1/4" to 1/2" - DN 15
CONNECTIONS	Female threaded ISO 7 Rp, ISO 228 or NPT Flanged EN 1092-1 PN 40 Flanged ASME B16.5 Class 150 or 300
MAX. UPSTREAM PRESSURE	14 bar
MAX. DESIGN TEMPERATURE	200°C
REGULATING RANGE	0.2 to 8 bar
FLOW RATE COEFFICIENTS	1.2 to 18 Kvs

P20DS Pressure Reducing Valve

The ADCA P20DS is a series of direct acting, spring loaded, diaphragm sensing balanced plug pressure reducing valves. These regulators are particularly suitable for general purpose applications where low flow and high temperatures are involved and have been specially designed for use with steam.

Stainless

steel 1/4"

Female threaded ISO 7 Rp, ISO

228 or NPT 220 bar

80°C

0.2 to 200 bar

0.043 to 0.62 Kvs

MATERIAL	Stainless steel
SIZES	1/4"
CONNECTIONS	Female threaded ISO 7 Rp, ISO 228 or NPT
MAX. UPSTREAM PRESSURE	220 bar
MAX. DESIGN TEMPERATURE	80°C
REGULATING RANGE	0.2 to 200 bar
FLOW RATE COEFFICIENTS	0.043 to 0.62 Kvs

P20P Pressure Reducing Valve

The ADCA P20P is a series of direct acting, spring loaded, piston sensing pressure reducing valves. These regulators are designed for use with nitrogen, compressed air, water and other gases and liquids compatible with the materials of construction. They are suitable for general purpose pressure reducing applications such as instrumentation systems and industrial equipment where small loads and high pressures are involved.

Stainless steel

1/4" to 3/4" - DN 15 and DN 20

Female threaded ISO 7 Rp, ISO 228 or NPTFlanged EN PN 40 to PN 250Flanged ASME Class 150, 300 or 600

220

bar

80°C

3 to 200

bar Up to

MATERIAL	Stainless steel
SIZES	1/4" to 3/4" - DN 15 and DN 20
CONNECTIONS	Female threaded ISO 7 Rp, ISO 228 or NPT Flanged EN PN 40 to PN 250 Flanged ASME Class 150, 300 or 600
MAX. UPSTREAM PRESSURE	220 bar
MAX. DESIGN TEMPERATURE	80°C
REGULATING RANGE	3 to 200 bar
FLOW RATE COEFFICIENTS	Up to 0.9 Kvs

PRV30 Pressure Reducing Valve

The ADCA PRV30SS is a series of direct acting, spring-loaded, diaphragm sensing and balanced plug pressure reducing valves. These regulators are designed for use with compressed air, water and other gases and liquids compatible with the construction materials and valve design. They are suitable for pressure reducing applications at the point of use in laundry and dyeing machines, food industries, sterilizers, etc.

Stainless steel

1/4" to 1" - DN 15 to 25

Threaded ISO 7 Rp or NPTFlanged EN PN 25Flanged ASME

Class 150 or 300 11 bar

30°C

0.2 to 13

bar Up to

MATERIAL	Stainless steel
SIZES	1/4" to 1" - DN 15 to 25
CONNECTIONS	Threaded ISO 7 Rp or NPT Flanged EN PN 25 Flanged ASME Class 150 or 300
MAX. UPSTREAM PRESSURE	11 bar
MAX. OPERATING TEMPERATURE	30°C
REGULATING RANGE	0.2 to 13 bar
FLOW RATE COEFFICIENTS	Up to 0.1 Kvs

PRV31 Pressure Reducing Valve

The ADCA PRV31SS is a series of direct acting, spring-loaded, piston sensing and balanced plug pressure reducing valves. These regulators are designed for use with compressed air, water and other gases and liquids compatible with the construction materials and valve design. They are suitable for pressure reducing applications at the point of use in laundry and dyeing machines, food industries, sterilizers, etc.

Stainless steel

MATERIAL	Stainless steel
SIZES	1/4" to 1" - DN 15 to 25
CONNECTIONS	Threaded ISO 7 Rp or NPT Flanged EN PN 25 Flanged ASME Class 150 or 300
MAX. UPSTREAM PRESSURE	20 bar
MAX. DESIGN TEMPERATURE	80°C
REGULATING RANGE	3 to 39 bar
FLOW RATE COEFFICIENTS	Up to 1.1 Kvs

PRV41 Pressure Reducing Valve

The ADCA PRV41SS is a series of direct acting, spring loaded, piston sensing pressure reducing valves. These regulators are designed for use with nitrogen, compressed air, water and other gases and liquids compatible with the materials of construction. They are suitable for general purpose pressure reducing applications such as instrumentation systems and industrial equipment where small loads and high pressures are involved.

Carbon steel or stainless steel

MATERIAL	Carbon steel or stainless steel
SIZES	1/2" to 1"
CONNECTIONS	Female threaded ISO 7 Rp Socket weld (SW) ASME
MAX. UPSTREAM PRESSURE	16 bar
MAX. DESIGN TEMPERATURE	80°C
REGULATING RANGE	0.21 to 17 bar
FLOW RATE COEFFICIENTS	1.6 to 3.7 Kvs

PS46 Pressure Sustaining Valve

The ADCA PS46 series pressure sustaining valves are single seated, bellows sealed controllers that operate without auxiliary energy. These valves are designed for use with steam, compressed air, and other gases compatible with the construction. These valves are particularly suitable for maintaining the upstream pressure in all energy and process systems where pressures must be kept under control.

Carbon steel

DN 15 to DN 100

Flanged EN 1092-1 PN 16 or PN 40

Up to 19 bar

Up to 170°C

4.5 to 12.5 Kvs

MATERIAL	Carbon steel
SIZES	DN 15 to DN 100
CONNECTIONS	Flanged EN 1092-1 PN 16 or PN 40
MAX. UPSTREAM PRESSURE	Up to 19 bar
MAX. OPERATING TEMPERATURE	Up to 170°C
FLOW RATE COEFFICIENTS	4.5 to 12.5 Kvs

PSW46B Pressure Sustaining Valve

The ADCA PSW46B series pressure sustaining valves are single seated, diaphragm or piston sensing proportional controllers that operate without auxiliary energy. Designed for use with water, compressed air and other liquids and gases compatible with the construction.

Carbon steel

DN 25 to DN 100

Flanged EN 1092-1 PN 16

or PN 40 Up to 19 bar

Up to 170°C

4.5 to 12.5 Kvs

MATERIAL	Carbon steel
SIZES	DN 25 to DN 100
CONNECTIONS	Flanged EN 1092-1 PN 16 or PN 40
MAX. UPSTREAM PRESSURE	Up to 19 bar
MAX. OPERATING TEMPERATURE	Up to 170°C
FLOW RATE COEFFICIENTS	4.5 to 12.5 Kvs

PPS47 Pressure Sustaining Valve

The ADCA PS47 series pilot operated pressure sustaining valves are designed for use with steam, compressed air, nitrogen and other gases compatible with the construction materials. The PSV7 can be installed in pressure sustaining stations throughout all industries and provides sensitive and accurate control even when inlet pressure fluctuations or flow variations occur.

Carbon steel or

stainless steel 1/2" to

2" - DN 15 to DN 50

Threaded ISO 7 Rp or NPTFlanged EN PN 40Flanged ASME Class 150 or 300Socket Weld (SW) ASME B16.11

28 bar

250°C

0.07 to 17 bar

MATERIAL	Carbon steel or stainless steel
SIZES	1/2" to 2" - DN 15 to DN 50
CONNECTIONS	Threaded ISO 7 Rp or NPT Flanged EN PN 40 Flanged ASME Class 150 or 300 Socket Weld (SW) ASME B16.11
MAX. UPSTREAM PRESSURE	28 bar
MAX. OPERATING TEMPERATUR E	250°C
REGULATING RANGE	0.07 to 17 bar

PS4 Pressure Sustaining Valve

The ADCA PS4 is a series of direct acting, spring loaded, diaphragm sensing pressure sustaining valves. These regulators are designed for use with compressed air, water and other gases and liquids compatible with the construction materials and valve design. They are suitable for pressure sustaining applications at the point of use in laundry and dyeing machines, food industries, sterilizers, etc.

Stainless steel

1/4" to 1/2" - DN 15

Female threaded ISO 7 Rp, ISO 228 or NPTFlanged EN 1092-1 PN 40Flanged ASME B16.5 Class 150 or 300

14 bar

200°C

0.2 to 8 bar

1.2 to 18 Kvs

MATERIAL	Stainless steel
SIZES	1/4" to 1/2" - DN 15
CONNECTIONS	Female threaded ISO 7 Rp, ISO 228 or NPT Flanged EN 1092-1 PN 40 Flanged ASME B16.5 Class 150 or 300
MAX. UPSTREAM PRESSURE	14 bar
MAX. DESIGN TEMPERATURE	200°C
REGULATING RANGE	0.2 to 8 bar
FLOW RATE COEFFICIENTS	1.2 to 18 Kvs

BKR12 Blanketing Valve

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The ADCA BKR12 is a series of tank blanketing valves designed for use with nitrogen, compressed air and other gases compatible with the materials of construction. These valves are suitable for maintaining a constant pressure in storage systems for volatile liquids, preventing evaporation losses and reducing the risk of fire or explosion.

Stainless steel

1/2" to 2" - DN 15 to DN 50

Threaded ISO 7 Rp or NPTFlanged EN PN 40Flanged ASME

Class 150 or 300 10 bar

80°C

0.02 to 0.5 bar

MATERIAL	Stainless steel
SIZES	1/2" to 2" - DN 15 to DN 50
CONNECTIONS	Threaded ISO 7 Rp or NPT Flanged EN PN 40 Flanged ASME Class 150 or 300
MAX. UPSTREAM PRESSURE	10 bar
MAX. OPERATING TEMPERATURE	80°C
REGULATING RANGE	0.02 to 0.5 bar

BKV12 Blanketing Valve

The ADCA BKV12 is a series of tank blanketing valves designed for use with nitrogen, compressed air and other gases compatible with the materials of construction. These valves are suitable for maintaining a constant pressure in storage systems for volatile liquids, preventing evaporation losses and reducing the risk of fire or explosion.

Stainless steel

1/2" to 2" - DN 15 to DN 50

Threaded ISO 7 Rp or NPTFlanged EN PN 40Flanged ASME

Class 150 or 300 10 bar

80°C

0.02 to 0.5 bar

MATERIAL	Stainless steel
SIZES	1/2" to 2" - DN 15 to DN 50
CONNECTIONS	Threaded ISO 7 Rp or NPT Flanged EN PN 40 Flanged ASME Class 150 or 300
MAX. UPSTREAM PRESSURE	10 bar
MAX. OPERATING TEMPERATUR E	80°C
REGULATING RANGE	0.02 to 0.5 bar

RP45TW Pressure Reducing Station

The ADCA RP45TW is a parallel valve system designed for significant consumption variation. This pressure reducing station consists of two or more pressure reducing valves installed in parallel, with each valve sized for a specific flow range. This configuration ensures stable pressure control across a wide range of flow conditions.

Carbon steel or

stainless steel DN 50

to DN 200

Flanged EN 1092-1 PN 16

or PN 40 Up to 40 bar

Up to 250°C

0.2 to 18 bar

26.5 to 129.5 Kvs (m³/h)

MATERIAL	Carbon steel or stainless steel
SIZES	DN 50 to DN 200
CONNECTIONS	Flanged EN 1092-1 PN 16 or PN 40
MAX. UPSTREAM PRESSURE	Up to 40 bar
MAX. OPERATING TEMPERATUR E	Up to 250°C
REGULATING RANGE	0.2 to 18 bar
FLOW RATE COEFFICIENTS	26.5 to 129.5 Kvs (m³/h)

Y162 Two-Way Control Valve

The ADCATrol Y162 is a series of single seated, two-way globe control valves designed for simple process engineering and industrial applications with non-critical operating conditions. These valves can be assembled with pneumatic, hydraulic or electric actuators, for modulating and shut-off control tasks.

Stainless

steel 1/2"

to 2"

Female threaded ISO 7 Rp

or NPT Kvs 4.8 to 52.6

PN 16

MATERIAL	Stainless steel
SIZES	1/2" to 2"
CONNECTIONS	Female threaded ISO 7 Rp or NPT
FLOW RATE COEFFICIENTS	Kvs 4.8 to 52.6
RATING	PN 16

Y362 Two-Way Control Valve

The ADCATrol Y362 is a series of single seated, two-way globe valves designed for process engineering and industrial applications, where events such as erosion, cavitation or flashing may occur. These valves can be assembled with pneumatic, hydraulic or electric actuators, for modulating and shut-off control tasks.

Stainless

steel 1/2"

to 2"

Female threaded ISO 7 Rp

or NPT Kvs 4.8 to 52.6

PN 16

MATERIAL	Stainless steel
SIZES	1/2" to 2"
CONNECTIONS	Female threaded ISO 7 Rp or NPT
FLOW RATE COEFFICIENTS	Kvs 4.8 to 52.6
RATING	PN 16

PY15 Pneumatic Control Valve

The ADCATrol PY15 is a series of single seated, two-way pneumatic cutoff globe valves with diaphragm actuator. These valves are suitable for use with the most common process fluids such as steam, water, apprehended water, air, neutral gases and oils.

Stainless

steel 1/2"

to 2"

Female threaded ISO 7 Rp

or NPT Kvs 4.8 to 52.6

PN 16

MATERIAL	Stainless steel
SIZES	1/2" to 2"
CONNECTIONS	Female threaded ISO 7 Rp or NPT
FLOW RATE COEFFICIENTS	Kvs 4.8 to 52.6
RATING	PN 16

PPV15 Pneumatic Control Valve

The ADCATrol PPV15 is a series of single seated, two-way pneumatic cutoff globe valves with piston actuator. These valves are suitable for use with the most common process fluids such as steam, water, apprehended water, air, neutral gases and oils.

Stainless

steel 1/2"

to 2"

Female threaded ISO 7 Rp

or NPT Kvs 4.8 to 52.6

PN 16

MATERIAL	Stainless steel
SIZES	1/2" to 2"
CONNECTIONS	Female threaded ISO 7 Rp or NPT
FLOW RATE COEFFICIENTS	Kvs 4.8 to 52.6
RATING	PN 16

PAV21 Pneumatic Angle Valve

The ADCATrol PAV21 is a series of pneumatic angle and gate valves with piston actuators. These valves are suitable for use with the most common process fluids such as steam, water, apprehended water, air, neutral gases and oils.

Stainless

steel 1/2"

to 2"

Female threaded ISO 7 Rp

or NPT Kvs 4.8 to 52.6

PN 16

MATERIAL	Stainless steel
SIZES	1/2" to 2"
CONNECTIONS	Female threaded ISO 7 Rp or NPT
FLOW RATE COEFFICIENTS	Kvs 4.8 to 52.6
RATING	PN 16

EY15 Electric Control Valve

The ADCATrol EY15 is a series of single seated, two-way electric cutoff globe valves with electric actuator. These valves are suitable for use with the most common process fluids such as steam, water, apprehended water, air, neutral gases and oils.

Stainless

steel 1/2"

to 2"

Female threaded ISO 7 Rp

or NPT Kvs 4.8 to 52.6

PN 16

MATERIAL	Stainless steel
SIZES	1/2" to 2"
CONNECTIONS	Female threaded ISO 7 Rp or NPT
FLOW RATE COEFFICIENTS	Kvs 4.8 to 52.6
RATING	PN 16

V303 Three-Way Control Valve

The ADCATrol V303 is a series of single seated, three-way globe control valves designed to ensure accurate control in mixing and diverting process engineering and industrial applications. These valves can be assembled with pneumatic, hydraulic or electric actuators, for modulating and shut-off control tasks.

Carbon steel and

stainless steel DN 15 to

DN 100

Flanged EN PN 16 or

PN 40 Kvs 4 to 160

MATERIAL	Carbon steel and stainless steel
SIZES	DN 15 to DN 100
CONNECTIONS	Flanged EN PN 16 or PN 40
FLOW RATE COEFFICIENTS	Kvs 4 to 160

V253 Three-Way Control Valve

The ADCATrol V253 is a series of three-way globe control valves designed to ensure accurate control in mixing or diverting general service applications. These valves can be assembled with pneumatic, hydraulic or electric actuators and used with the most common process fluids such as water, superheated water, thermal oil, steam, air, gas and other non corrosive fluids.

SG Iron

DN 15 to DN 150

Flanged EN PN 16 or PN 25

Kvs 4 to 330

MATERIAL	SG Iron
SIZES	DN 15 to DN 150
CONNECTIONS	Flanged EN PN 16 or PN 25
FLOW RATE COEFFICIENTS	Kvs 4 to 330

PV403 Three-Way Control Valve

The PV403 control valves are three-way valve body for mixing service. The PA pneumatic actuator is rubber diaphragm and multi-springs. Its action can be DA – direct action (air to close) or RA – reverse action (air to open). The V403 valves have been designed to assure an accurate control in any process condition. Their wide application ranges allow the use of this valve with the most common process fluids such as water, superheated water, diathermic oil, steam, air, gas and other non corrosive fluids.

Carbon steel or stainless steel

DN 15 to DN 50

Flanged EN PN 16 or PN 40Flanged ASME Class 150 or 300

Kvs 4 to 40

MATERIAL	Carbon steel or stainless steel
SIZES	DN 15 to DN 50
CONNECTIONS	Flanged EN PN 16 or PN 40 Flanged ASME Class 150 or 300
FLOW RATE COEFFICIENTS	Kvs 4 to 40

VPA26/2 Blowdown Valve

The VPA26/2 series of blowdown valves are specially designed for application on steam boilers, to remove sludge sediments which naturally settle on the bottom of the boiler. These intermittent valves operate manually or automatically with timed control. Available with diaphragm actuator and/or manual operation lever.

Carbon steel or stainless steel

3/4" to 2" – DN 20 to DN 50

Flanged EN PN 40Flanged ASME Class 300

Kvs 6.3 or 16

MATERIAL	Carbon steel or stainless steel
SIZES	3/4" to 2" – DN 20 to DN 50
CONNECTIONS	Flanged EN PN 40 Flanged ASME Class 300
FLOW RATE COEFFICIENTS	Kvs 6.3 or 16

VPC26 TDS Control Valve

The ADCATrol VPC26 is specially designed for TDS (Total Dissolved Solids) control applications in steam boilers.

Carbon steel or stainless steel

1/2" to 1-1/2" – DN 15 to DN 40

Flanged EN PN 40Flanged ASME Class 300

Kvs 1.2 to 2.5

MATERIAL	Carbon steel or stainless steel
SIZES	1/2" to 1-1/2" – DN 15 to DN 40
CONNECTIONS	Flanged EN PN 40 Flanged ASME Class 300
FLOW RATE COEFFICIENTS	Kvs 1.2 to 2.5

OVF40 Overflow Valve

The ADCATrol OVF40 is a series of single seated, two-way overflow valves with inline connections. These valves are mainly used in closed loop systems to ensure that a minimum flow is kept in the event that all connected consumers are in a low load condition or have simply shut down. In these scenarios, the valve will prevent problems such as pressure surges, pump cavitation and overheating.

Carbon steel or stainless steel

DN 15 to DN 80

Flanged EN PN 16 or PN 40

Kvs 5.2 to 89.7

MATERIAL	Carbon steel or stainless steel
SIZES	DN 15 to DN 80
CONNECTIONS	Flanged EN PN 16 or PN 40
FLOW RATE COEFFICIENTS	Kvs 5.2 to 89.7

PAR - PARF Pneumatic Actuator

PA series pneumatic multi-spring actuators with rolling diaphragm, offering decreased hysteresis and good linearity potential for operating range. Available in air to close and air to open versions, for modulating and cut-off services.

Aluminum and stainless steel

100 to 2500 cm²

Up to 6 bar

Up to 60 mm

200 Nm

MATERIAL	Aluminum and stainless steel
SIZES	100 to 2500 cm²
MAX AIR SUPPLY	Up to 6 bar
RATED STROKE	Up to 60 mm
TORQUE	200 Nm

PARM - PAMM Pneumatic Actuator

PA series pneumatic multi-spring actuators with rolling diaphragm, offering decreased hysteresis and good linearity potential for operating range. Available in air to close and air to open versions, for modulating and cut-off services.

Aluminum and stainless steel

100 to 2500 cm²

Up to 6 bar

Up to 30 mm

200 Nm

MATERIAL	Aluminum and stainless steel
SIZES	100 to 2500 cm²
MAX AIR SUPPLY	Up to 6 bar
RATED STROKE	Up to 30 mm
TORQUE	200 Nm

EL Electric Linear Actuator

Electric linear actuator EL series for modulating and open-close duty of control and regulating technology to operate control valves. The self-locking gear-system uses a fast and efficient device via opening and closing by an electronic valve to the end position, avoiding drifting the steps for the end position.

Up to 120 mm

24V AC/DC, 115V AC, 230V AC, 400V AC

IP 67

1.2 to 21.9 Nm

RATED STROKE	Up to 120 mm
SUPPLY VOLTAGES	24V AC/DC, 115V AC, 230V AC, 400V AC
IP RATING	IP 67
TORQUE	1.2 to 21.9 Nm

ELS Electric Linear Actuator

Electric linear actuator ELS series for modulating and open-close duty of control and regulating technology to operate control valves. The self-locking gear-system uses a fast and efficient device via opening and closing by an electronic valve to the end position, avoiding drifting the steps for the end position.

Up to 90 mm

24V AC/DC, 115V AC, 230V AC

IP 65

2.3 to 21.9 Nm

RATED STROKE	Up to 90 mm
SUPPLY VOLTAGES	24V AC/DC, 115V AC, 230V AC
IP RATING	IP 65
TORQUE	2.3 to 21.9 Nm

ELK Electric Linear Actuator

Electric linear actuator ELK series for modulating and open-close duty of control and regulating technology to operate control valves. The self-locking gear-system uses a fast and efficient device via opening and closing by an electronic valve to the end position, avoiding drifting the steps for the end position. In case of system failure, the electric linear actuator can spring-driven into the respective fail-safe position.

Up to 60 mm

24V AC/DC, 115V AC, 230V AC, 400V AC

IP 67

3.9 Nm (close), 2.6 Nm (open)

RATED STROKE	Up to 60 mm
SUPPLY VOLTAGES	24V AC/DC, 115V AC, 230V AC, 400V AC
IP RATING	IP 67
TORQUE	3.9 Nm (close), 2.6 Nm (open)

MAH Manual Linear Actuator

The ADCATrol MAH is a series of manual linear actuators with top mounted hand-wheel designed for use with modulating and cut-off valves. These actuators are particularly interesting for control applications where a precise manual adjustment of flow is required. These actuators can also be quickly assembled to control valves, whereas preventive maintenance operation while the original actuator is being carried out regulated.

Up to 60 mm

From -20°C to 80°C

20 to 42.9 Nm

RATED STROKE	Up to 60 mm
OPERATION TEMPERATURE	From -20°C to 80°C
TORQUE	20 to 42.9 Nm

TR Temperature Control Valve

The ADCA TR valves series are designed for direct-acting temperature control systems where the valve closes on temperature rise. They are single seated, in order to ensure an excellent tightness and are intended to be coupled with the thermostat models T.205 and T.405.

Stainless steel

1/2" to 1"

Female threaded ISO 7 Rp or NPT

16 bar

200°C

MATERIAL	Stainless steel
SIZES	1/2" to 1"
CONNECTIONS	Female threaded ISO 7 Rp or NPT
MAX OPERATING PRESSURE	16 bar
MAX OPERATING TEMPERATURE	200°C

TR25/R Temperature Control Valve

The ADCA TR25/R valves series are designed for temperature control of cooling systems where the valve opens when the temperature rises. They are single seated, in order to ensure an excellent tightness, and are intended to be coupled with thermostat models T.205 and T.405.

Stainless steel

1/2" to 1"

Female threaded ISO 7 Rp or NPT

16 bar

200°C

MATERIAL	Stainless steel
SIZES	1/2" to 1"
CONNECTIONS	Female threaded ISO 7 Rp or NPT

MAX OPERATING PRESSURE	16 bar
MAX OPERATING TEMPERATURE	200°C

BCS220 Blowdown Controller

The ADCATrol BCS220 is a blowdown controller specially designed for use with steam boiler. The device takes care of both TDS and intermittent blowdown control. TDS (Total Dissolved Solids) is controlled through measurement of the boiler water electrical conductivity and intermittent control is performed via a blowdown timer. The device utilizes a clear multifunction LCD to display measured conductivity, temperature, operational alarm status and provide an intuitive interface. The device is IP 66 rated NEMA 4X and can be panel, surface/wall and pipe mounted.

BCS220 – 90 to 265 V ACBCS220-LV – 12 to 30 V DC

150 x 161 x 119 mm

IP 66 NEMA 4X

SUPPLY VOLTAGES	BCS220 – 90 to 265 V AC BCS220-LV – 12 to 30 V DC
DIMENSIONS	150 x 161 x 119 mm
IP RATING	IP 66 NEMA 4X

PCSI Pressure Transmitter

The ADCATrol PCSI is a series of pressure transmitters suitable for all industrial applications. It is specially designed to operate in severe conditions where high temperatures, pressure peaks, shock and vibrations are present. The PCSI is extensively robust and reliable, thanks to its use of SMD electronics and compact all stainless steel construction.

Male threaded ISO 228 G 1/2"

0 to 6 / 0 to 10 / 0 to 16 / 0 to 25 / 0 to 40 / 0 to 100 / 0 to 250 / 0 to 400 / 0 to 600 bar

< ±0.5% FS

< 1 ms

IP 65 / IP 67

3 to 20 mA (2 wire)

SIZES AND CONNECTIONS	Male threaded ISO 228 G 1/2"
PRESSURE RANGES	0 to 6 / 0 to 10 / 0 to 16 / 0 to 25 / 0 to 40 / 0 to 100 / 0 to 250 / 0 to 400 / 0 to 600 bar
ACCURACY	< ±0.5% FS
RESPONSE TIME	< 1 ms
IP RATING	IP 65 / IP 67
OUTPUT	4 to 20 mA (2 wire)

SPS21 Conductivity Probe

The ADCATrol SPS21 conductivity probe is typically used in steam applications to measure the conductivities of superheated boiler water, condensate or feedwater. The probe is used in conjunction with an ADCATrol BCS controller and a VPC series TDS blowdown control valve.

Male threaded ISO 7 R 1/2"

32 bar

230°C

IP 65

SIZES AND CONNECTIONS	Male threaded ISO 7 R 1/2"
MAX OPERATING PRESSURE	32 bar
MAX OPERATING TEMPERATURE	230°C
IP RATING	IP 65

SPS33 Conductivity Probe

The ADCATrol SPS33 conductivity probe is typically used in steam applications to measure the conductivity of superheated boiler water, condensate or feedwater. The probe is used in conjunction with an ADCATrol BCS controller and a VPC series TDS blowdown control valve.

Male threaded ISO 228 G 1/2"

32 bar

230°C

IP 65

SIZES AND CONNECTIONS	Male threaded ISO 228 G 1/2"
MAX OPERATING PRESSURE	32 bar
MAX OPERATING TEMPERATURE	230°C
IP RATING	IP 65

UD-720 Digital Panel Display

The ADCATrol UD-720 is a programmable digital panel display used for the measurement of standard sensor and analog signals applied in automation. It is ideally suited for use with our range of instrumentation such as pressure transmitter, temperature probes and others. The unit features a 24 V DC supply output for transmitters.

23 to 40 V AC/DC

101 x 48 x 96 mm

IP 65

SUPPLY VOLTAGES	23 to 40 V AC/DC
DIMENSIONS	101 x 48 x 96 mm
IP RATING	IP 65

UC-820 Digital Universal Controller

The ADCATrol UC-820 is a digital universal controller used in the assessment of industrial processes. It is ideally suited for use with our range of instrumentation, electric and pneumatic control valves and other electrical equipment.

24V AC/DC, 115V AC, 230V AC

96 x 96 x 130 mm

IP 65

SUPPLY VOLTAGES	24V AC/DC, 115V AC, 230V AC
DIMENSIONS	96 x 96 x 130 mm
IP RATING	IP 65

PCLS Signal Converter

The ADCATrol PCLS is a compact device which converts a standard analog signal to a standard pneumatic signal. At the change-over between electrical controllers to pneumatic control valves, or from electrical measuring systems to pneumatic controllers. The PCLS is a force balance device, which converts a 4-20 mA input signal into a proportional linear 0.2 to 1 bar output signal, with a respective supply pressure of 1.4 to 5 bar.

Aluminum and polycarbonate

4 to 20 mA

0.2 to 1 bar (3 to 15 psi)

1.4 to 5 bar

-40 to 85°C

MATERIAL	Aluminum and polycarbonate
INPUT SIGNAL	4 to 20 mA
OUTPUT SIGNAL	0.2 to 1 bar (3 to 15 psi)
SUPPLY PRESSURE	1.4 to 5 bar
OPERATING TEMPERATURE	-40 to 85°C

PPSS1 Pneumatic Positioner

The ADCATrol PPSS1 positioner requires an input signal of 0.2-1.0 bar (3-15 psi) for the proportional control actuator. The positioner compares the output signal from a controller with the position feedback and varies a pneumatic output signal to the actuator accordingly. The actuator position is therefore guaranteed for any controller output signal and the effects of varying differential pressure.

0.2 to 1.0 bar (3 to 15 psi)

0.2 to 1.0 bar (3 to 15 psi)

1.4 to 7 bar

-40 to 85°C

INPUT SIGNAL	0.2 to 1.0 bar (3 to 15 psi)
OUTPUT SIGNAL	0.2 to 1.0 bar (3 to 15 psi)
SUPPLY PRESSURE	1.4 to 7 bar
OPERATING TEMPERATURE	-40 to 85°C

PPSS6 Pneumatic Positioner

(Image not found)

The ADCATrol PPSS6 positioner requires an input signal of 4-20 mA for the proportional control actuator. The positioner compares the output signal from a controller with the position feedback and varies a pneumatic output signal to the actuator accordingly. The actuator position is therefore guaranteed for any controller output signal and the effects of varying differential pressure.

4 to 20 mA

0.2 to 1.0 bar (3 to 15 psi)

1.4 to 7 bar

-40 to 85°C

INPUT SIGNAL	4 to 20 mA
OUTPUT SIGNAL	0.2 to 1.0 bar (3 to 15 psi)
SUPPLY PRESSURE	1.4 to 7 bar

OPERATING TEMPERATURE	-40 to 85°C

SG IRON Air and Gas Float Trap

FA line of fully automatic ball float traps, manufactured in SG iron and designed for all types of low and high-pressure applications. The available models cover a wide range of flow rates, in various sizes, with different connections and multiple options to choose from.

SG Iron

Low and high-pressure applications

Wide range of flow ratesVarious sizes availableMultiple connection options

MATERIAL	SG Iron
APPLICATIONS	Low and high-pressure applications
FEATURES	Wide range of flow rates Various sizes available Multiple connection options

CARBON STEEL Air and Gas Float Trap

FA line of fully automatic ball float traps, manufactured in carbon steel and designed for all types of low and high-pressure applications. The available models cover a wide range of flow rates, in various sizes, with different connections and multiple options to choose from.

Carbon Steel

Low and high-pressure applications

Wide range of flow ratesVarious sizes availableMultiple connection options

MATERIAL	Carbon Steel
APPLICATIONS	Low and high-pressure applications
FEATURES	Wide range of flow rates Various sizes available Multiple connection options

STAINLESS STEEL Air and Gas Float Trap

FA line of fully automatic ball float traps, manufactured in stainless steel and designed for all types of low and high-pressure applications. The available models cover a wide range of flow rates, in various sizes, with different connections and multiple options to choose from.

Stainless Steel

Low and high-pressure applications

Wide range of flow ratesVarious sizes availableMultiple connection options

MATERIAL	Stainless Steel
APPLICATIONS	Low and high-pressure applications
FEATURES	Wide range of flow rates Various sizes available Multiple connection options

CAD Compressed Air Automatic Drain Valve

The ADCA CAD compressed air automatic drain valve consists of a solid-state timer coupled to a solenoid valve. It is specially designed for automatic drainage of filters, separators, aftercoolers, dryers, receivers, drip legs and other compressed air system components where condensate and contaminants may collect. The drainage interval and discharge time can be adjusted according to the requirements.

3/8" and 1/2"

Female threaded ISO 7 Rp

SIZES	3/8" and 1/2"
CONNECTIONS	Female threaded ISO 7 Rp

CARBON STEEL Air and Gas Vent




AE line of air and gas vents for liquid systems, manufactured in carbon steel and designed for all types of low and high-pressure applications. The available models cover a wide range of flow rates, in various sizes, with different connections and multiple options to choose from.

Carbon Steel

Low and high-pressure applications

Wide range of flow ratesVarious sizes availableMultiple connection options

MATERIAL	Carbon Steel
APPLICATIONS	Low and high-pressure applications
FEATURES	Wide range of flow rates Various sizes available Multiple connection options

STAINLESS STEEL Air and Gas Vent




AE line of air and gas vents for liquid systems, manufactured in stainless steel and designed for all types of low and high-pressure applications. The available models cover a wide range of flow rates, in various sizes, with different connections and multiple options to choose from.

Stainless Steel

Low and high-pressure applications

Wide range of flow ratesVarious sizes availableMultiple connection options

MATERIAL	Stainless Steel
APPLICATIONS	Low and high-pressure applications
FEATURES	Wide range of flow rates Various sizes available Multiple connection options

VB21 - VB21M Vacuum Breaker

The ADCA VB21 vacuum breakers are simple and reliable devices that automatically relieve or "break" an unwanted vacuum condition, restoring the atmospheric pressure. These devices are particularly suitable for steam heated units of small and medium volume, such as heat exchangers, heating coils, calorifiers, jacketed kettles, steam boilers, etc.

Stainless steel

1/2" x 1/8"

VB21 – Female threaded ISO 7 Rp or NPTVB21M – Male threaded ISO 228

13 bar at 400°C21 bar at 220°C

MATERIAL	Stainless steel
SIZES	1/2" x 1/8"
CONNECTIONS	VB21 – Female threaded ISO 7 Rp or NPT VB21M – Male threaded ISO 228
LIMITING CONDITIONS	13 bar at 400°C 21 bar at 220°C

VB17 Vacuum Breaker

The ADCA VB17 is a series of vacuum breakers designed to automatically relieve or "break" an unwanted vacuum condition. Applications include venting and vacuum limiting in pipelines, vessels, heat exchangers, autoclaves, steam boilers and other machines.

Stainless steel

1/2" to 2" – DN 15 to DN 50

16 bar

200°C

MATERIAL	Stainless steel
SIZES	1/2" to 2" – DN 15 to DN 50
MAX OPERATING PRESSURE	16 bar
MAX OPERATING TEMPERATURE	200°C

IS140 Pipeline Strainer

The ADCA IS140 is a series of Y strainers applicable in all types of steam, water, oil and air systems. Their purpose is to protect equipment, such as steam traps and regulating valves, from dirt and impurities which often cause damage and consequent downtime and energy loss.

Carbon steel and stainless steel

1/2" to 2"

Female threaded ISO 7 Rp or NPT

60 bar

400°C

MATERIAL	Carbon steel and stainless steel
SIZES	1/2" to 2"
CONNECTIONS	Female threaded ISO 7 Rp or NPT
MAX ALLOWABLE PRESSURE	60 bar
MAX ALLOWABLE TEMPERATURE	400°C

IS116 Pipeline Strainer

The ADCA IS116 forged steel Y strainers are applicable in all types of steam, water, oil and air systems. Their purpose is to protect traps, regulation valves, piping, etc. from dirt and impurities, which are often the causes of damage and consequent energy loss of fluid systems.

1/2" to 2" – DN 15 to DN 50

Threaded ISO 7 Rp or NPTFlanged EN or ASMESocket weld (SW) ASME B16.11

136 bar

425°C

SIZES	1/2" to 2" – DN 15 to DN 50
CONNECTIONS	Threaded ISO 7 Rp or NPT Flanged EN or ASME Socket weld (SW) ASME B16.11
MAX ALLOWABLE PRESSURE	136 bar
MAX ALLOWABLE TEMPERATURE	425°C

IS147 Pipeline Strainer

The ADCA IS147 cast iron Y strainers are applicable in all types of steam, water, oil and air systems. Their purpose is to protect traps, regulation valves, piping, etc. from dirt and impurities, which are often the cause of damage and consequent energy loss of fluid systems.

Cast iron

DN 15 to DN 300

Flanged EN 1092-2 PN16

MATERIAL	Cast iron
SIZES	DN 15 to DN 300
CONNECTIONS	Flanged EN 1092-2 PN16

IS147 (EN) Pipeline Strainer

The ADCA IS147 cast steel T strainers are applicable in all types of steam, water, oil and air systems. Their purpose is to protect traps, regulation valves, piping, etc. from dirt and impurities, which are often the cause of damage and consequent energy loss of fluid systems.

Stainless steel or carbon steel

DN 15 to DN 100

Flanged EN 1092-2 PN 16, PN 25 or PN 40

MATERIAL	Stainless steel or carbon steel
SIZES	DN 15 to DN 100
CONNECTIONS	Flanged EN 1092-2 PN 16, PN 25 or PN 40

IS147 (ASME) Pipeline Strainer

The ADCA IS147 cast steel T strainers are applicable in all types of steam, water, oil and air systems. Their purpose is to protect traps, regulation valves, piping, etc. from dirt and impurities, which are often the cause of damage and consequent energy loss of fluid systems.

Stainless steel or carbon steel

1" to 4"

Flanged ASME B16.5 Class 150 or 300

MATERIAL	Stainless steel or carbon steel
SIZES	1" to 4"
CONNECTIONS	Flanged ASME B16.5 Class 150 or 300

SW12 Sight Glass

The ADCA SW12 is a series of single window sight glasses specially designed for installation downstream of steam traps, to monitor their performance such as checking for live steam leakage or blockage. Such devices can also be used for monitoring flow conditions in other applications, particularly in pipelines with liquid medium.

1/2" to 2"

Female threaded ISO 7 Rp

12 bar

150°C

SIZES	1/2" to 2"
CONNECTIONS	Female threaded ISO 7 Rp
MAX OPERATING PRESSURE	12 bar
MAX OPERATING TEMPERATURE	150°C

DW40 Sight Glass

The ADCA DW40 is a series of double window sight glasses specially designed for installation downstream of steam traps, to monitor their performance such as checking for live steam leakage or blockage. Such devices can also be used for monitoring flow conditions in other applications, particularly in pipelines with liquid medium.

Carbon steel

1/2" to 2" – DN 15 to DN 50

Threaded ISO 7 Rp or NPTFlanged EN 1092-1 PN 16 or ASME B16.5 Class 150 or 300

60 bar

250°C

MATERIAL	Carbon steel
SIZES	1/2" to 2" – DN 15 to DN 50
CONNECTIONS	Threaded ISO 7 Rp or NPT Flanged EN 1092-1 PN 16 or ASME B16.5 Class 150 or 300
MAX ALLOWABLE PRESSURE	60 bar
MAX ALLOWABLE TEMPERATURE	250°C

DW12 Sight Glass

The ADCA DW12 is a series of double window sight glasses specially designed for installation downstream of steam traps, to monitor their performance such as checking for live steam leakage or blockage. Such devices can also be used for monitoring flow conditions in other applications, particularly in pipelines with liquid medium.

Cast iron and stainless steel

DN 15 to DN 150

Flanged EN 1092-1/2 PN 16

16 bar

250°C

MATERIAL	Cast iron and stainless steel
SIZES	DN 15 to DN 150
CONNECTIONS	Flanged EN 1092-1/2 PN 16
MAX ALLOWABLE PRESSURE	16 bar
MAX ALLOWABLE TEMPERATURE	250°C

SCKI Sight Checker

The ADCA SCKI sight checkers function as both sight glasses and check valves. Such devices are designed for installation downstream of steam traps, to monitor their performance, while also working as reliable check valves to prevent condensate backflow.

Stainless steel

1/2" to 1"

Female threaded ISO 7 Rp or NPT

10 bar

150°C

MATERIAL	Stainless steel
SIZES	1/2" to 1"
CONNECTIONS	Female threaded ISO 7 Rp or NPT
MAX OPERATING PRESSURE	10 bar
MAX OPERATING TEMPERATURE	150°C

RT25 Non-Return Valve

The ADCA RT25 all stainless steel disc check valves have a compact design and were specially designed for use with steam and hot condensate.

Stainless steel

1/4" to 2"

Female threaded ISO 7 Rp or NPT

21 bar

220°C

MATERIAL	Stainless steel
SIZES	1/4" to 2"
CONNECTIONS	Female threaded ISO 7 Rp or NPT
MAX OPERATING PRESSURE	21 bar
MAX OPERATING TEMPERATURE	220°C

RD40 Non-Return Valve

The ADCA RD40 disc check valves have a compact design and are specially designed for use with steam and hot condensate.

Stainless steel

1/2" to 2"

Female threaded ISO 7 Rp or NPT

16 bar

200°C

MATERIAL	Stainless steel
SIZES	1/2" to 2"
CONNECTIONS	Female threaded ISO 7 Rp or NPT
MAX OPERATING PRESSURE	16 bar
MAX OPERATING TEMPERATURE	200°C

M3B Isolation Valve

The M3B three-piece ball valves are reduced bore isolating valves designed for cut-off applications with steam, condensate and other gas or liquid media compatible with the construction.

Stainless steel

1/4" to 2"

Female threaded ISO 7 Rp or NPTSocket weld (SW) ASME B16.11

100 bar

250°C

PN 160

MATERIAL	Stainless steel
SIZES	1/4" to 2"
CONNECTIONS	Female threaded ISO 7 Rp or NPT Socket weld (SW) ASME B16.11
MAX OPERATING PRESSURE	100 bar
MAX OPERATING TEMPERATURE	250°C
RATING	PN 160

M3H Isolation Valve

The M3H three-piece ball valves are full bore isolating valves designed for cut-off applications with steam, condensate and other gas or liquid media compatible with the construction.

Stainless steel

3/8" to 2"

Female threaded ISO 7 Rp or NPTSocket weld (SW) ASME B16.11

100 bar

250°C

PN 160

MATERIAL	Stainless steel
SIZES	3/8" to 2"
CONNECTIONS	Female threaded ISO 7 Rp or NPT Socket weld (SW) ASME B16.11
MAX OPERATING PRESSURE	100 bar
MAX OPERATING TEMPERATURE	250°C
RATING	PN 160

M3SH Isolation Valve

The M3SH three-piece ball valves are full bore isolating valves designed for cut-off applications with steam, condensate and other gas or liquid media compatible with the construction.

Zinc plated carbon steel

1/4" to 2"

Female threaded ISO 7 Rp or NPTSocket weld (SW) ASME B16.11

100 bar

250°C

PN 160

MATERIAL	Zinc plated carbon steel
SIZES	1/4" to 2"
CONNECTIONS	Female threaded ISO 7 Rp or NPT Socket weld (SW) ASME B16.11
MAX OPERATING PRESSURE	100 bar
MAX OPERATING TEMPERATURE	250°C
RATING	PN 160

M3W1 / MW1 Isolation Valve

The M3W1 and MW1 wafer type ball valves are specially designed isolating valves for cut-off applications with steam, condensate and other gas or liquid media compatible with the construction.

Carbon and stainless steel

DN 15 to DN 150

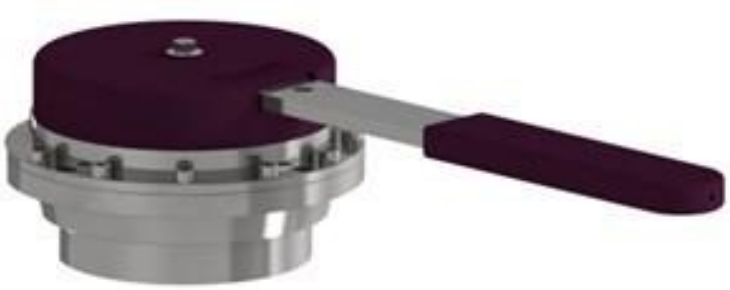
Flanged EN 1092

16 bar

250°C

MATERIAL	Carbon and stainless steel
SIZES	DN 15 to DN 150
CONNECTIONS	Flanged EN 1092
MAX ALLOWABLE PRESSURE	16 bar
MAX ALLOWABLE TEMPERATURE	250°C

SM1 Spring Return Handle



Spring return handles, also called "dead man's handles" consist of an enclosed spring-loaded lever mechanism, which ensures safe operation when mounted on a control valve. This device ensures that the valve cannot be left open (or closed) as a powerful spring will place the valve in the fail-safe position as soon as the operator releases its handle.

Stainless steel

ISO 5211 mounting

MATERIAL	Stainless steel
CONNECTIONS	ISO 5211 mounting

NYMP Gauge Valve

The ADCA NYMP is a series of high pressure needle valves designed for gauge isolation in steam and other industrial fields. The NYMP valve is specially designed for use as a basic water supply valve, where the control is to focus on energy extraction as a TDS function as smart valve.

Stainless steel

Female threaded ISO 7 Rp

MATERIAL	Stainless steel
CONNECTIONS	Female threaded ISO 7 Rp

CCBB Gauge Valve

The ADCA CCBB gauge isolation valves are designed for protection of instrumentation such as pressure gauges, transmitters and sensors. The CCBB valve allows for isolation of the valve system for controlled instrument repair programs. The CCBB valve also allows for pressure measurement through the integrated test port which allows the equipment required for replacement or calibration procedures.

Carbon and stainless steel

Female threaded ISO 7 Rp

MATERIAL	Carbon and stainless steel
CONNECTIONS	Female threaded ISO 7 Rp

LCC-019 Level Gauge

The ADCA LCC-019 compact tubular level gauge valves are relatively short range level indicators. It includes all necessary valves to isolate the level in pressure vessels, which are often equipped with a single unit. Each pair of both types of valves also can be applied with the tools.

Stainless steel

Flanged connections

40 bar

200°C

MATERIAL	Stainless steel
CONNECTIONS	Flanged connections
MAX OPERATING PRESSURE	40 bar
MAX OPERATING TEMPERATURE	200°C

POP Pressure Operated Pump

The ADCAMat POP (Pressure Operated Pump), fabricated in carbon steel (stainless steel on request), is recommended for the transfer of high-temperature liquids such as condensate, oils and others to higher elevation or pressure, especially where conditions involve closed vessels under vacuum or pressure. The pump can be operated by steam, compressed air or other gases, and can be used for lifting any kind of non-corrosive liquids.

Carbon steel and stainless steel

1/2" to 2" - DN 15 to DN 50

Flanged EN 1092Flanged ASME B16.5 Class 150Female threaded ISO 7 Rp

80 bar

180°C

Up to 2500 kg/h

MATERIAL	Carbon steel and stainless steel
SIZES	1/2" to 2" - DN 15 to DN 50
CONNECTIONS	Flanged EN 1092 Flanged ASME B16.5 Class 150 Female threaded ISO 7 Rp
MAX MOTIVE PRESSURE	80 bar
MAX OPERATING TEMPERATURE	180°C
FLOW RATE CAPACITY	Up to 2500 kg/h

POPS-K Packaged Pump Unit

The POPS-K packaged pump units can be used to lift and transfer condensate and other liquids in hazardous zones.

Condensate and liquid transfer in hazardous zones

APPLICATIONS	Condensate and liquid transfer in hazardous zones

POP-LC Low Capacity Pressure Operated Pump

The ADCAMat POP-LC low capacity pressure operated pump is recommended for the transfer of steam condensate, oils and other non-hazardous liquids (compatible with the construction) to higher elevation or pressure, especially where conditions involve closed vessels under vacuum or pressure. The pump can be operated using steam, compressed air or inert gas, and is manufactured in carbon steel or stainless steel.

Carbon steel and stainless steel

80 bar

180°C

Up to 250 kg/h

MATERIAL	Carbon steel and stainless steel
MAX MOTIVE PRESSURE	80 bar
MAX OPERATING TEMPERATURE	180°C
FLOW RATE CAPACITY	Up to 250 kg/h

PPT14 Automatic Pump Trap

The ADCAMat PPT14 automatic pump trap is specially recommended when well conditions may occur due to poor return line condensate discharge capacity, caused by upstream insufficient pressure drop. The equipment combines in a single unit both a steam trap and a pressure-operated pump.

Carbon steel and stainless steel

1-1/2" and 2" to 4"DN 40 x 3" and DN 50 x 40

Flanged EN 1092Flanged ASME B16.5 Class 150Female threaded ISO 7 Rp

MATERIAL	Carbon steel and stainless steel
SIZES	1-1/2" and 2" to 4" DN 40 x 3" and DN 50 x 40
CONNECTIONS	Flanged EN 1092 Flanged ASME B16.5 Class 150 Female threaded ISO 7 Rp

PPT-K (Simplex) Packaged Pump Trap Unit

The ADCAMat PPT-K packaged pump trap unit is intended for lifting and transferring condensate in closed loop systems. This unit comprises the ADCAMat PPT14 pump trap, a receiver and all auxiliary components, offering a complete, tested and ready-for-connection package that reduces time, work and site costs. Two or more units can be connected in parallel to extend capacity beyond a single unit.

Carbon steel and stainless steel

DN 40 x 3" and DN 50 x 40

Flanged EN 1092Flanged ASME B16.5 Class 150Female threaded ISO 7 Rp

10 bar

180°C

MATERIAL	Carbon steel and stainless steel
SIZES	DN 40 x 3" and DN 50 x 40
CONNECTIONS	Flanged EN 1092 Flanged ASME B16.5 Class 150 Female threaded ISO 7 Rp
MAX OPERATING PRESSURE	10 bar
MAX OPERATING TEMPERATURE	180°C

ANST Automatic Pump Trap

The ADCAMat ANST automatic pump trap is specially recommended when well conditions may occur due to poor return line condensate discharge capacity, caused by upstream insufficient pressure drop. The equipment combines in a single unit both a steam trap and a pressure-operated pump.

Carbon steel and stainless steel

Flanged EN 1092Flanged ASME B16.5 Class 150Female threaded ISO 7 Rp

10 bar

180°C

MATERIAL	Carbon steel and stainless steel
CONNECTIONS	Flanged EN 1092 Flanged ASME B16.5 Class 150 Female threaded ISO 7 Rp
MAX MOTIVE PRESSURE	10 bar
MAX OPERATING TEMPERATURE	180°C

S16 Humidity Separator

The S16 series centrifugal separators remove moisture from steam and compressed air pipelines. Steam or compressed air passes through the separator and, as a result of centrifugal forces, impacts and swirling effects, particles with heavier specific gravity such as water and oil droplets, moisture in suspension, dirt and scale are separated from the fluid. The condensate collected at the bottom is automatically drained by a suitable steam or compressed air trap (supplied separately).

S25 Humidity Separator

The ADCA S25 series centrifugal separators remove moisture from steam and compressed air pipelines. Steam or compressed air passes through the separator and, as a result of centrifugal forces, impacts and swirling effects, particles with heavier specific gravity such as water and oil droplets, moisture in suspension, dirt and scale are separated from the fluid. The condensate collected at the bottom is automatically drained by a suitable steam or compressed air trap (supplied separately).

SF251 Humidity Separator

The SF251/S series centrifugal separators remove moisture from steam and compressed air pipelines. Steam or compressed air passes through the separator and, as a result of centrifugal forces, impact and swirling effects, particles with heavier specific gravity such as water and oil droplets, moisture in suspension, dirt and scale are separated from the fluid. The condensate collected at the bottom is automatically drained by a suitable steam or compressed air trap (supplied separately).

Carbon steel

DN 15 to DN 100

Flanged EN 1092-1 PN16 or PN40Flanged ASME B16.5 Class 150 or 300

40 bar

300°C

MATERIAL	Carbon steel
SIZES	DN 15 to DN 100
CONNECTIONS	Flanged EN 1092-1 PN16 or PN40 Flanged ASME B16.5 Class 150 or 300
MAX OPERATING PRESSURE	40 bar
MAX OPERATING TEMPERATURE	300°C

SH25 Humidity Separator

The SH25/S series horizontal centrifugal separators remove moisture from steam and compressed air pipelines. Steam or compressed air passes through the separator and, as a result of centrifugal forces, impact and swirling effects, particles with heavier specific gravity such as water and oil droplets, moisture in suspension, dirt and scale are separated from the fluid. The condensate collected at the bottom is automatically drained by a suitable steam or compressed air trap (supplied separately).

Carbon steel

1/2" to 6" - DN 15 to DN 150

Flanged EN PN 16 or PN 40Flanged ASME Class 150 or 300

40 bar

300°C

PN 16 or PN 40

MATERIAL	Carbon steel
SIZES	1/2" to 6" - DN 15 to DN 150
CONNECTIONS	Flanged EN PN 16 or PN 40 Flanged ASME Class 150 or 300
MAX OPERATING PRESSURE	40 bar
MAX OPERATING TEMPERATURE	300°C
RATING	PN 16 or PN 40

SC32 / SC132 Sample Cooler

The ADCA SC32 and SC132 sample coolers are specially designed to cool samples of boiler water or steam for analysis. Sample coolers prevent steam flashing-off from hot pressurized liquid samples, which can be dangerous and may result in incorrect samples. These devices may be used for boiler water analysis and other sampling or cooling applications compatible with the construction materials.

Stainless steel body and coil

Cooling water inlet/outlet: 1/2" on body (ISO 7 Rp or NPT)Sample tube inlet/outlet: 5 mm

20 bar (body) 110 bar (coil)

120°C (body) 450°C (coil)

MATERIAL	Stainless steel body and coil
SIZES AND CONNECTIONS	Cooling water inlet/outlet: 1/2" on body (ISO 7 Rp or NPT) Sample tube inlet/outlet: 5 mm
MAX OPERATING PRESSURE	20 bar (body) 110 bar (coil)
MAX ALLOWABLE TEMPERATURE	120°C (body) 450°C (coil)

SC32F / SC132F Sample Cooler

The ADCA SC32F and SC132F sample coolers were specially designed to cool samples of boiler water or steam for analysis. Sample coolers prevent steam flashing-off from hot pressurized liquid samples, which can be dangerous and may result in incorrect samples. These devices may be used for boiler water analysis and other sampling or cooling applications compatible with the construction materials.

Stainless steel body and coil

Cooling water body inlet 1/2", outlet 5/4" (ISO 7 Rp or NPT)Sample tube inlet/outlet: 5 mm

20 bar (body) 110 bar (coil)

120°C (body) 450°C (coil)

MATERIAL	Stainless steel body and coil
SIZES AND CONNECTIONS	Cooling water body inlet 1/2", outlet 5/4" (ISO 7 Rp or NPT) Sample tube inlet/outlet: 5 mm
MAX OPERATING PRESSURE	20 bar (body) 110 bar (coil)
MAX ALLOWABLE TEMPERATURE	120°C (body) 450°C (coil)

SC32B / SC132B Sample Cooler

The ADCA SC32B and SC132B sample coolers were specially designed to cool samples of boiler water or steam for analysis. Sample coolers prevent steam flashing-off from hot pressurized liquid samples, which can be dangerous and may result in incorrect samples. These devices may be used for boiler water analysis and other sampling or cooling applications compatible with the construction materials.

Stainless steel body and coil

Cooling water body inlet 1/2", outlet 1/2" (ISO 7 Rp or NPT)Sample tube inlet/outlet: 5 mm

20 bar (body) 110 bar (coil)

120°C (body) 450°C (coil)

MATERIAL	Stainless steel body and coil
SIZES AND CONNECTIONS	Cooling water body inlet 1/2", outlet 1/2" (ISO 7 Rp or NPT) Sample tube inlet/outlet: 5 mm
MAX OPERATING PRESSURE	20 bar (body) 110 bar (coil)
MAX ALLOWABLE TEMPERATURE	120°C (body) 450°C (coil)

SC332 - SC532 Sample Cooler

The ADCA SC332, SC432 and SC532 sample coolers were specially designed to cool samples of boiler water or steam for analysis. Sample coolers prevent steam flashing-off from hot pressurized liquid samples, which can be dangerous and may result in incorrect samples. These devices may be used for boiler water analysis and other sampling or cooling applications compatible with the construction materials.

Stainless steel body and coil

Cooling water inlet/outlet: 1/2" on 2" (ISO 7 Rp or NPT)Sample tube inlet/outlet: 10 mm O/D

20 bar (body) Up to 250 bar (coil)

100°C (body) Up to 550°C (coil)

MATERIAL	Stainless steel body and coil
SIZES AND CONNECTIONS	Cooling water inlet/outlet: 1/2" on 2" (ISO 7 Rp or NPT) Sample tube inlet/outlet: 10 mm O/D
MAX OPERATING PRESSURE	20 bar (body) Up to 250 bar (coil)
MAX ALLOWABLE TEMPERATURE	100°C (body) Up to 550°C (coil)

DSH Direct Steam Humidifier

The ADCA DSH series of direct steam injection humidifiers are designed to ensure highly efficient and moisture-free steam injection in air ducts and AHU for humidification purposes. These units are completely manufactured from corrosion resistant stainless steel, and are available as plug-and-play packaged solutions or alternatively as individual components to be incorporated into humidification systems.

Stainless steel

1/2", 1" and 1-1/4"

Female threaded ISO 7 Rp or NPTFlanged and special connections on request

MATERIAL	Stainless steel
SIZES	1/2", 1" and 1-1/4"
CONNECTIONS	Female threaded ISO 7 Rp or NPT Flanged and special connections on request

SI20 Steam Injector

The ADCAMix SI20 is a series of direct steam injectors designed for low-noise heating of still or flowing mediums, inside basins and vessels.

3/4"

Female threaded ISO 7 RpOthers on request

8.5 bar

180°C

SIZES	3/4"
CONNECTIONS	Female threaded ISO 7 Rp Others on request
MAX OPERATING PRESSURE	8.5 bar
MAX OPERATING TEMPERATURE	180°C

SI21 Steam Injector

The ADCAMix SI21 is a series of direct steam injectors designed for rapid heating of still or flowing mediums, inside basins and vessels. Steam enters through the inlet connection, passes along the center of the device and mixes with the cool medium, which is drawn in through radial holes.

Austenitic stainless steel

1/2"

Female threaded ISO 7 RpOthers on request

17 bar

95°C

PN 25

MATERIAL	Austenitic stainless steel
SIZES	1/2"
CONNECTIONS	Female threaded ISO 7 Rp Others on request
MAX OPERATING PRESSURE	17 bar
MAX OPERATING TEMPERATURE	95°C
RATING	PN 25

SI23 Steam Injector

The ADCAMix SI23 and SI24 are a series of direct steam injectors designed for rapid heating of still or flowing mediums, inside basins and vessels. Steam enters through the inlet connection, passes along the center of the device and mixes with the cool medium, which is drawn in through radial holes.

MX20 Steam-Water Mixer

The ADCAMix MX20 is a series of steam-water mixers designed to provide a cheap and instantaneous source of low pressure hot water, by using existing steam and cold water supplies. The mixer incorporates a safety device to ensure that live steam cannot be accidentally ejected even if the cold water supply fails. The water temperature at the outlet is easily controlled by using water and steam valves fitted at the inlets.

Stainless steel

3/4" x 3/4"

Female threaded ISO 7 Rp

10 bar

MATERIAL	Stainless steel
SIZES	3/4" x 3/4"
CONNECTIONS	Female threaded ISO 7 Rp
MAX OPERATING PRESSURE	10 bar

SG20 Water-Saving Gun

The ADCAMix SG20 series water-saving guns are specially recommended to be used along with the ADCAMix MX20 steam-water mixers. By using this gun, water and energy costs can be considerably reduced and contribute to environmental protection, avoiding the use of chemicals in the cleaning process.

1/2"

24 bar

SIZES	1/2"
MAX OPERATING PRESSURE	24 bar

ECRU Electric Condensate Recovery Unit

The ADCAMat ECRU series of electric condensate recovery units are recommended for the transfer of high-temperature water such as hot condensate, to a higher elevation or pressure. This condensate is usually used as boiler feedwater. The standard models are prepared for flows up to 30 m^3/h, or higher on request. The units are composed of a horizontal condensate vessel (receiver), a metallic support frame, electric pumps, level controls, valves, prewired control panel and pipework for connections between the different elements.

ECRUV Electric Condensate Recovery Unit

The ADCAMat ECRUV series of electric condensate recovery units are recommended for the transfer of high-temperature water such as hot condensate, to a higher elevation or pressure. This condensate is usually used as boiler feedwater. The standard models are prepared for flows up to 4 m^3/h. The units are composed of a vertical condensate vessel (receiver), a metallic support frame, electric pump, level controls, valves, prewired control panel and pipework for connections between the different elements.

PWHU Packaged Water Heating Unit

The ADCAThern PWHU packaged water heating units are designed for instant hot water heating in a safe and efficient way, using steam as primary fluid. Each system is built to meet application and space requirements in a compact skid package, ready for connection into the system, reducing on-site labour and disruption time.

FRECO Flash Steam Heat Recovery Unit

The ADCAThern FRECO flash steam heat recovery units are designed to facilitate heat recovery from flash steam, condensate or both. The system is specially recommended for heating a continuous flow of fluid, such as make-up water to a boiler feed water system. Non-continuous flow applications may require additional recirculation, relief valves, or other devices to avoid system damage due to overheating and consequent overpressure.

STS Heat Exchanger

The ADCA STS series steam to water shell and tube heat exchangers are shorter and lighter than alternative shell and tube exchangers manufactured with smooth pipes. The use of extended low fin tube has the advantage that it can improve the external surface and thermal performance.

Stainless steel

Flanged or threaded, according to EN or ASME standards

16 bar

230°C

MATERIAL	Stainless steel
CONNECTIONS	Flanged or threaded, according to EN or ASME standards
MAX ALLOWABLE PRESSURE	16 bar
MAX ALLOWABLE TEMPERATURE	230°C

STH Heat Exchanger

The ADCA STH series steam to water shell and tube heat exchangers are shorter and lighter than alternative shell and tube exchangers manufactured with smooth pipes. The use of extended low fin tube has the advantage that it can improve the external surface and thermal performance.

Carbon steel and stainless steel

Flanged or threaded, according to EN or ASME standards

16 bar

230°C

MATERIAL	Carbon steel and stainless steel
CONNECTIONS	Flanged or threaded, according to EN or ASME standards
MAX ALLOWABLE PRESSURE	16 bar
MAX ALLOWABLE TEMPERATURE	230°C

STV Heat Exchanger

(Image not found)

The ADCA STV series steam to water shell and tube heat exchangers are shorter and lighter than alternative shell and tube exchangers manufactured with smooth pipes. The use of extended low fin tube has the advantage that it can improve the external surface and thermal performance.

Carbon and stainless steel

Flanged or threaded, according to EN or ASME standards

16 bar

250°C

MATERIAL	Carbon and stainless steel
CONNECTIONS	Flanged or threaded, according to EN or ASME standards
MAX OPERATING PRESSURE	16 bar
MAX OPERATING TEMPERATURE	250°C

PAT Plate Heat Exchanger

The ADCATHERM PAT plate heat exchangers (gasketed and bolted) consist of a variable number of pressed heat transfer plates clamped together between a fixed and a movable pressure plate, all assembled in a metal frame.

Carbon steel, stainless steel or special order

Female threaded ISO 7 Rp or NPTFlanged EN 1092-1 PN 16 or ASME B16.5 (Class 150)

10 bar

Up to 180°C

MATERIAL	Carbon steel, stainless steel or special order
CONNECTIONS	Female threaded ISO 7 Rp or NPT Flanged EN 1092-1 PN 16 or ASME B16.5 (Class 150)
MAX OPERATING PRESSURE	10 bar
MAX OPERATING TEMPERATURE	Up to 180°C

R Series Heating Coils

The ADCA R series steam to water tubular heating coils are shorter and lighter than alternative tubular heating coils manufactured with smooth pipes. The use of extended low fin tube has the advantage that it can improve the external surface and thermal performance.

Flanged EN or ASMEThreaded on request

CONNECTIONS	Flanged EN or ASME Threaded on request

RV Flash Vessel

The ADCA RV flash vessel is the main component in any flash recovery system. It can be used in all systems where high pressure condensate is reduced to a lower pressure, so that flash steam is formed by re-evaporation. Flash steam can be used in low-pressure process or heating equipment.

RV6, RV8, RV12, RV16 and RV18

Flanged EN 1092 PN16

16 bar

200°C

SIZES	RV6, RV8, RV12, RV16 and RV18
CONNECTIONS	Flanged EN 1092 PN16
MAX OPERATING PRESSURE	16 bar
MAX OPERATING TEMPERATURE	200°C

RVST Flash Vessel

The ADCA RVST flash vessel is the main component in any flash recovery system. It can be used in all systems where high pressure condensate is reduced to a lower pressure, so that flash steam is formed by re-evaporation. This steam can be used in low-pressure process or heating equipment.

Carbon and stainless steel

RV318, RV320, RV324 and RV328

Flanged EN 1092 PN16

16 bar

200°C

MATERIAL	Carbon and stainless steel
SIZES	RV318, RV320, RV324 and RV328
CONNECTIONS	Flanged EN 1092 PN16
MAX OPERATING PRESSURE	16 bar
MAX OPERATING TEMPERATURE	200°C

ADC Atmosphere Deaerator

The ADCATHERM ADC series atmosphere deaerators are designed to heat boiler feed water and to reduce oxygen and carbon dioxide levels (oxygen values in the feed water of less than 0.16 mg/L can be achieved). Remaining oxygen can be completely removed using oxygen scavenging chemicals. The complete system consists of a storage vessel, a deaerating head section and a vent.

Flanged EN or ASMEISO or NPT threaded connections

0.3 bar

105°C

CONNECTIONS	Flanged EN or ASME ISO or NPT threaded connections
MAX ALLOWABLE PRESSURE	0.3 bar
MAX ALLOWABLE TEMPERATURE	105°C

TDC Thermal Deaerator

The TDC series tray-type thermal deaerators are designed to heat boiler feed water and reduce oxygen and carbon dioxide levels (oxygen levels in the feed water of less than 0.02 mg/L - 0.02 ppm can be achieved). Remaining oxygen can be completely removed using oxygen scavenging chemicals. The complete system consists of a storage vessel, a deaerating head section and a vent.

Carbon and stainless steel

Flanged EN or ASMEBSP or NPT threadedDifferent connections on request

0.3 bar

105°C

MATERIAL	Carbon and stainless steel
CONNECTIONS	Flanged EN or ASME BSP or NPT threaded Different connections on request
MAX ALLOWABLE PRESSURE	0.3 bar
MAX ALLOWABLE TEMPERATURE	105°C

FCD Flash Condensing Head

The ADCATHERM FCD series flash condensing heads are designed to promote energy efficiency in steam or condensate systems. Mixing the flash steam with boiler feed water allows the energy within the flash steam to be fully absorbed into the water and therefore reduces energy loss that normally occurs from the discharge of flash steam through a vent.

Stainless steel

Threaded ISO 7 Rp or NPTFlanged EN 1092 or ASME B16.5Other connections on request

0.3 bar

105°C

MATERIAL	Stainless steel
CONNECTIONS	Threaded ISO 7 Rp or NPT Flanged EN 1092 or ASME B16.5 Other connections on request
MAX ALLOWABLE PRESSURE	0.3 bar
MAX ALLOWABLE TEMPERATURE	105°C

AS Centrifugal Separator

The AS series centrifugal air and dirt separators were designed to be useful in the flow lines of a hydronic heating or cooling system. The operation is based on the principle of centrifugal force, instead of relying on low velocity separation, offering the advantage of efficient separation in a smaller vessel. The ADCA AS series provides maximum separation efficiency while minimizing space requirements.

Carbon, zinc plated and stainless steel body

1-1/4" to 8" - DN 32 to DN 200

Threaded for PN16 to PN40Flanged ASME Class 150 or 300Special flanges upon request

40 bar

300°C

MATERIAL	Carbon, zinc plated and stainless steel body
SIZES	1-1/4" to 8" - DN 32 to DN 200
CONNECTIONS	Threaded for PN16 to PN40 Flanged ASME Class 150 or 300 Special flanges upon request
MAX OPERATING PRESSURE	40 bar
MAX OPERATING TEMPERATURE	300°C

MLI Magnetic Level Indicator

The MLI series of bypass type magnetic level indicators are designed for continuous production and/or control in ADCA ECRU units and other special SKID mounted packages. The indicators can be equipped with multiple MSID test switches for pumpers or a side mounted level transmitter for continuous level monitoring.

INCC Cooling Device

(Image not found)

The INCC is a cooling device that allows the mixing of hot condensate with a lower temperature condensate, avoiding hammering. Condensate discharge from higher pressure lines (drip points, for instance) is often controlled to low-pressure condensate lines, with lower temperatures. This sudden pressure drop will convert the sensible heat difference between the two fluid conditions into latent heat, generating flash steam.

Carbon and stainless steel

Flanged EN PN16 or PN40Flanged ASME Class 150 or 300Others on request

40 bar

300°C

MATERIAL	Carbon and stainless steel
CONNECTIONS	Flanged EN PN16 or PN40 Flanged ASME Class 150 or 300 Others on request
MAX OPERATING PRESSURE	40 bar
MAX OPERATING TEMPERATURE	300°C

KH Exhaust Head

The ADCA KH series exhaust heads were designed to protect personnel from injury and equipment from harmful effects of steam discharge to atmosphere. The KH is fitted at the end of a vertical exhaust pipe and effectively removes the moisture separated from the steam for drainage.

Carbon, zinc plated and stainless steel body

1" to 10" - DN 25 to DN 250

Flanged EN 1092-1 PN16 or ASME B16.5 Class 150

0.5 bar

MATERIAL	Carbon, zinc plated and stainless steel body
SIZES	1" to 10" - DN 25 to DN 250
CONNECTIONS	Flanged EN 1092-1 PN16 or ASME B16.5 Class 150
MAX ALLOWABLE PRESSURE	0.5 bar

LIPO Condensate Lifting Pipe

The ADCA LIPO series of condensate lifting pipes were designed for installation in steam and condensate systems. They are particularly used in condensate lines where condensate must be transported without causing further hammer and noise and to recover condensate use.

Carbon and stainless steel

1/2" to 6" - DN 15 to DN 150

Flanged EN 1092-2 PN16 or PN40 or ASME B16.5 Class 150

18 bar

250°C

MATERIAL	Carbon and stainless steel
SIZES	1/2" to 6" - DN 15 to DN 150
CONNECTIONS	Flanged EN 1092-2 PN16 or PN40 or ASME B16.5 Class 150
MAX ALLOWABLE PRESSURE	18 bar
MAX ALLOWABLE TEMPERATURE	250°C