



3 البيادر
AL BÄYADÈR®



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www.albayader-me.com



RL/1 SERIES

The RL/1 burners series covers a firing range from 107 to 398 kW, and it has been designed for use in low or medium temperature hot water boilers, hot air or steam boilers, diathermic oil boilers.

Optimisation of sound emissions is guaranteed by the special design of the air suction circuit **and by incorporated sound proofing material**.

Special care has been paid to keeping overall dimensions compact and to easy servicing.

The elevated fans and combustion head performance guarantees flexibility of use and excellent operation at all firing rates. A wide range of accessories guarantees elevated working flexibility.

RL 34/1 MZ

107 ÷ 398 kW



Two Stage Light Oil Burners
RL/B MZ SERIES

RL/B MZ SERIES

RL/B MZ series burners are characterised by a modular monoblock structure that means all necessary components can be combined in a single unit thus making installation easier, faster and, above all, more flexible.

The series covers a firing range from 1250 to 4450 kW, and they have been designed for use in hot water boilers, overheated water boilers as well as steamboilers. Operation is 2 stages.

The innovative combustion head is able to reach good performances in term of Low NOx and helps in reducing noise emissions.

RL 300/B MZ 600/1250 ÷ 3550 kW

RL 400/B MZ 1000/2000 ÷ 4450 kW

PRESS P/G SERIES

The PRESS P/G series of burners covers a firing range from 415 to 5340 kW.

Setting can be "two stage progressive" or, alternatively, "modulating" with the installation of a PID logic regulator and respective probes, which guarantees a turn down ratio of 3:1.

The versatility of this range makes the burner well suited for use on commercial or industrial applications where the load factor is subject to wide variations over a short period of time.

Simplified maintenance is achieved by Riello designed slide bar system, which allows easy access to all of the essential components of the combustion head.

P 140 P/G 415/830 ÷ 1660 kW

P 200 P/G 590/1185 ÷ 2370 kW

P 300 P/G 890/1780 ÷ 3560 kW

P 450 P/G 1190/2670 ÷ 5340 kW



PRESS P/G SERIES
Modulating Light Oil Burners

RIELLO 40 G SERIES

The Riello 40 G series of one stage light oil burners, is a complete range of products developed to respond to any request for home heating. The Riello 40 G series is available in ten different models, with an output ranging from 12 to 240 kW, divided into four different structures.

All the models use the same components designed by Riello for the Riello 40 G series. The high quality level guarantees safe working.

In developing these burners, special attention was paid to reducing noise, to the ease of installation and adjustment, obtaining the smallest size possible to fit into any sort of boiler available on the market.

All the models are approved by the EN 267 European Standard and conform to European Directives for EMC, Low Voltage, Machinery and Boiler Efficiency.

All the Riello 40 G burners are fired before leaving the factory.

G3	23,8 ÷ 35,5 kW
G3R	23,8 ÷ 35,5 kW
G3RK	15,0 ÷ 35,0 kW
G5	28,0 ÷ 60,0 kW
G5R	28,0 ÷ 60,0 kW
G5RK	12,0 ÷ 60,0 kW
G7	29,0 ÷ 69,0 kW
G10	54,0 ÷ 120,0 kW
G20	95,0 ÷ 213,0 kW
G20S	95,0 ÷ 240,0 kW

RIELLO 40 GS GAS BURNER



RIELLO 40 G DIESEL BURNER



RIELLO 40 GS SERIES

The Riello 40 GS series of one stage gas burners, is a complete range of products developed to respond to any request for home heating. The Riello 40 GS series is available in four different models, with an output ranging from 11 to 220 kW, divided in four different structures.

All the models use the same components designed by Riello for the Riello 40 GS series. The high quality level guarantees safe working. The Riello 40 GS burners are fitted with a microprocessor based control box with diagnostic functions. In developing these burners, special attention was paid to reducing noise, to the ease of installation and adjustment, to obtaining the smallest size possible to fit into any sort of boiler available on the market.

All the models are approved by the EN 676 European Standard and conform to European Directives for EMC, Low Voltage, Machinery and Boiler Efficiency.

All the Riello 40 GS burners are tested before leaving the factory.

GS3	11 ÷ 35 kW
GS5	18 ÷ 58 kW
GS10	42 ÷ 116 kW
GS20	81 ÷ 220 kW

One Stage Gas Burners GAS SERIES

RIELLO

The GAS series of burners cover a firing range from 130 to 1050 kW.

Operation is "one stage"; the combustion head, that can be set on the basis of required output, allows optimal performance ensuring good combustion and reducing fuel consumption.

The GAS series are extremely reliable burners, featured by a simple use and an operation without particular maintenance intervention.

Simplified maintenance is achieved by the slide bar system, which allows easy access to all of the essential components of the combustion head. All electrical components are easily accessible only by dismantling a protection panel, thus guaranteeing a quick and simple intervention on components.



GAS 3	130 ÷ 350 kW
GAS 4	185 ÷ 465 kW



Two Stage Gas Burners GAS/2 SERIES

The GAS/2 series of burners covers a firing range from 130 to 3200 kW and they have been designed for use in civil installations of average dimensions, like building areas and large apartment groups or for use in industrial applications, like small or medium plants.

Operation is two stage; the combustion head, that can be set on the basis of required output, allows optimal performance ensuring good combustion and reducing fuel consumption.

The main feature of these burners is their reliability due to a simple and strong construction, which permits operation without particular maintenance intervention.

Simplified maintenance is achieved by the slide bar system, which allows easy access to all of the essential components of the combustion head. All electrical components are easily accessible only by dismantling a protection panel, thus guaranteeing a quick and simple intervention on components.



GAS 3/2	80/130 ÷ 350 kW
GAS 4/2	120/180 ÷ 470 kW

RIELLO

Energy For Life

CONDEXA PRO

Riello Condexa PRO is a condensing pre-mixed, fan-induced modulating wall-hung boiler, designed both for stand-alone and cascade applications up to 2.4 ML Btu/hr (702 kW). It is suitable for a wide variety of installations, from office buildings and sports facilities to schools and hotels. Each model have a new heat exchanger, composed of two smooth concentric stainless steel pipes (ASME approved), having respectively an internal pentagonal section and a circular outside section, designed to maximise the heat exchange surface and provide maximum resistance to corrosion.

The primary circuit pump with modulating adjustment allows you to operate with a settable consent DT, thereby reducing the system's steady state times and maximising the condensation. The standard electronics includes climatic regulation, management of the cascade of the modules, with integrated master/slave functions, the automatic switching between summer/winter and the possibility of managing a direct zone and a DHW storage cylinder.

- Ultra high efficiency AFUE > 95%
- 10:1 turndown ratio on the single boiler
- Cascade up to 6 units
- Integrated managing/depending control (non code differentiation), cascade management included in the interface board control
- Boiler includes built-in circulating pump
- 4" flue exit / air intake adapters supplied as standard - room sealed combustion - NPT connections.
- Gas category: type A (natural gas) - type E (lpg) according CSA requirements
- Low emissions - SOUTH COAST AQMD CERTIFICATE



- In conformity with Directive 2009/125/EC
- Condensing thermal modules for indoor use (for outdoors with optional kit)
- Possible cascade up to 1120 kW
- Modular design to ensure an easy and fast installation
- Low polluting emissions, Class 6 (DIN EN 15502)

BAHR'12

High pressure steam boiler, three pass reverse flame, with efficiency from 90% up to 96%¹⁾ according the installed smoke tube (STD, HPO, HP).

BAHR'12 is a family of packaged smoke tube steam boilers, three pass reverse flame, wet back. Standard safety pressure up to 12 bar (higher pressure available on request) and output from 300 to 6000 kg/h. It can be operated with liquid or gaseous fuels. Every model is complete with regulations and safety accessories for automatic operation and easy commissioning.

In compliance to the current laws, each steam boiler undergoes a conformity assessment, carried out by a Notified Body. The conformance to the essential safety requirements demanded by the European Pressure Equipment Directive 2014/68/UE (PED) is guaranteed by the CE mark.

Design features:

By means of the reverse flame principle the smoke gases in the combustion chamber are diverted to the front, then reversed again to the smoke tube sections and discharged through the chimney connection. The appliance is designed to ensure low heating loads in the combustion chamber and low superficial loads.

Boiler body: is made up of a cylindrical shell and a wet back furnace, made of high quality steel. All the materials have certificates attesting their chemical and mechanical characteristics, the controls are carried out during each production stage, and, theirs suitability for use as well. The welding seams are carried out by qualified personnel in compliance to certified procedures and are subjected to Non Destructive Tests, in accordance to an internal "Manufacturing and Control" program. Once the boilers have been manufactured they are subjected to hydraulic testing in accordance to the requirement 7.4 – Annex I, laid down in the Directive 2014/68/UE (PED).

Smoke tubes: made of high quality steel, are welded to tube plates. Pipes are equipped with steel turbulators or fitted with aluminum and/or steel inserts according the installed smoke tube.

Front door: is built in welded steel plate, completely cladged internally with a layer of insulation material and with a layer of high density refractory material. The door is fitted with hinges which enable it to be easily adjusted and quickly opened. Moreover, the door is fitted with a self-cleaning sight glass for combustion control during boiler operation.

Rear smoke-box: is built in welded steel plate and fixed on to the tube plate by nuts for an easy access to it. It is fitted with a small door for cleaning purposes and an horizontal flue connection (vertical on request), with a diameter sized to the boiler's output. The rear smoke-box is pre-arranged for the installation of an integral economizer.

Basement: is built with a steel frame, welded to the tube plates and closed with steel plates.

Walkway: positioned on the top part of the boiler, is made of steel, covered with chequered plate and completed; on request with handrail and access ladder.

Insulation: the shell is thermally insulated with a 100 mm rock wool cladding binded with high density, thick thermosetting resins, suitably supported and covered externally in 10/10 thick enamelled aluminum. The frontal parts of the boiler are also insulated with rock wool and covered externally with a metallic box.



Unical®



Unical®

A+ efficiency
with "A+ KIT"

Class VI +4%
seasonal energy performance



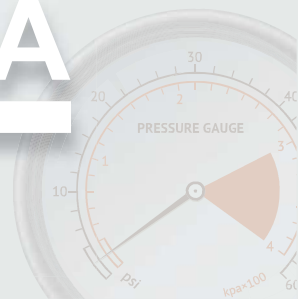
EASY
Wireless modulating
room thermostat



OUTDOOR
SENSOR
COMPENSATION

K+A is a room sealed condensing boiler which stands out both for the particular care taken in the soundproofing (front and side panels with double high density plastic coating) and for the **extremely high thermal performance**, which ensure high comfort and a D.H.W. production comparable to that of a boiler with storage tank.

K+A



PAVAILLER CRYSTAL

This rotary rack oven is designed for bakery and pastry products. The homogeneous circulation of hot air, combined with the rotating movement of the rack, gives the oven excellent baking quality and consistency, for all types of production: fresh, raw, frozen and pre-baked frozen.



- Protective gaskets, a thick heat exchanger, two double-secured door hinges and a large triple-glazed window maximize visibility, ensuring long-lasting, efficient operation.
- Gas and Fuel versions are equipped with a U-shaped heat exchanger ("U-FLOW") in refractory stainless steel. In the Electric version, the heat exchanger is made up of stainless steel resistor blocks. These elements are ideally positioned close to the turbines to ensure fast, flexible heating efficiency, enabling successive firings and contributing to perfectly even cooking on all levels.
- The homogeneous circulation of hot air, combined with the rotation of the cart, gives the oven excellent cooking quality and consistency, for all types of production: fresh, raw, frozen and pre-cooked frozen.
- The Easy-Touch control system is a modern, intuitive control system that makes it easy to regulate your baking processes. Instant readout and fingertip navigation, with no complexity and all the parameters you need to express your expertise with every batch.



Sustainable operation

The protection of the seals, the thickness of the exchanger, the two double-holding door hinges or the large triple-glazed window maximizing visibility, are all elements **ensuring long-lasting and efficient operation.**



Quality and regularity

The homogeneity of hot air circulation combined with the rotating movement of the trolley gives the oven excellent cooking quality and consistency, for all types of production: fresh, raw, frozen and pre-cooked frozen.

TIDY

Cristal range ovens are rotary rack ovens designed for bakery and patisserie applications. They are available in two sizes:

- The FM2 model for 600x800 mm baking racks;
- The FM3 model for 800x1000 mm baking racks.

Cristal Touch ovens adapt to your existing carts: all models are equipped with a turntable as standard, enabling the use of all types of baking carts (max. height 1820mm).



Easy-touch control

The **Easy-Touch control** is a modern and intuitive pilot control for easy regulation of your cooking. Reading is instantaneous and navigation is done with the finger and the eye, without complexity and with all the necessary parameters to express your know-how with each batch.

PAVAILLER

ONYX



The Onyx electric deck oven is one of the most compact on the market. This oven for bakers and pastry cooks combines versatility and power for accelerated baking. The maintenance is done from the front giving the possibility to this oven to be built in on 3 sides in order to fit in the smallest bakeries.

OPAL TOUCH



The Opale electric deck oven is an expert in traditional deck baking. This true bread oven distributes heat evenly. The easy-touch control allows you to adjust your baking parameters, such as steam production. Does our steam device match your baking habits? Click here to find out!

ONYX FIT

This ultra-compact oven is Pavaiiler's latest addition. A true baker's oven, with the power and responsiveness of a standard-sized deck oven, ONYX FIT makes no concessions on performance!



A record of compactness The ONYX range is completed with ONYX FIT, an ultra-compact model containing all the know-how of PAVAILLER, to ensure you an undeniable ergonomics and baking quality, even in the smallest of places! A true bakery oven, with an optimum power and reactivity, ONYX FIT makes no concessions on performance! The design of the baking chambers, as well as the doors, allow an accelerated baking for breads forever more golden and crusty, in order to offer hot bread in record time.

EMERALD



The Emerald bi-energy deck oven is an assembly of three levels in ring-tube technology and an electric level. This versatile baker's oven will seduce you when baking breads requiring different temperatures at the same time.

JADE STYLE



This oven allows you to cook your bakery and pastry products. This gas or oil oven system allows you to reduce your energy bills and save space thanks to its 3 sides.



TOPAZE STYLE

Convection ovens TOPAZE Style combined with modular electrical deck ovens RUBIS Style is a concentrate of Pavailler's finest products. In order to bring you even more versatility and precision, it is possible to link these electric ovens to bake your most delicate pastries and your most delicious pizzas.



SPIRAL MIXER – OXYGENE

The spiral mixers in the OXYGENE range offer incomparable mixing quality, combining versatility and sturdiness to ensure perfect respect for the dough and your work. The touch-sensitive interface accompanies the user on a daily basis, enabling easy, personalized management. The range comprises 4 models, with maximum dough capacities ranging from 45 to 130kg.



TORNADO MIXER

The Tornado has been designed specifically for bakery and pastry making, it allows you to prepare all types of mixes such as pastry (cream, sponge cake, meringue, etc.) and a wide variety of doughs (cookies, brioche, special breads, viennoiseries, etc).

Tornado guarantees the precision and agility necessary for the realization of all your recipes thanks to its 3 tools (paddle, whisk, spiral) and its management of the mixing speed.



SCAN TO VIEW MORE
RANGE OF PRODUCTS



AUTOMATIC DOUGH DIVIDER

The Automatic dough divider "HT" is a robust, precise and highly productive machine, capable of dividing from 900 to 2200 pieces/hour, at a fixed or variable rate.



AUTOMATIC AND SEMI-AUTOMATIC ROUNDER DIVIDER – ALIZÉ

The ALIZÉ range of divider-rounders is ideal for dividing and rounding dough of all types and weights, without altering the dough growth process. They are available in semi-automatic (Stentor) and automatic (Platinum) versions, with 4 models ranging from 15 to 36 divisions.



SCAN TO VIEW MORE
RANGE OF PRODUCTS





RESTING CABINETS ECLIPSE

The resting cabinets Eclipse is an intermediate expansion chamber with balances, promoting elongation during shaping.



INTERMEDIATE PROOFER WITH INTEGRABLE MOULDER RPF1

All integrated, this equipment allows the relaxation of the dough pieces as well as the shaping. The RPF1 is mobile thanks to wheels (2 brakes) located under the frame.



SCAN TO VIEW MORE
RANGE OF PRODUCTS





NOVA SOFT – ROLLER

The Nova Soft roller allows to stretch the dough pieces without degassing them in order to ensure a quality development of the products, rounded ends and to preserve the honeycomb.



MOULDERS EURO 2000 (VERTICAL)

The moulder Euro 2000 allows the rolling and the shaping of dough pieces intended for the manufacture of baguettes, large and small long loaves.



SCAN TO VIEW MORE
RANGE OF PRODUCTS



DOUGH SHEETERS

Cadet dough sheeters are tabletop dough sheeters. They are equipped with fixed stainless steel shelves.



DOUGH SHEETER STRATUS MEGA 1400/1600

The STRATUS Mega is an automatic stainless steel rolling mill designed for the transformation of dough for the production of pastries.



SCAN TO VIEW MORE
RANGE OF PRODUCTS



BP RELAXATION ROOM

The BP proofing chamber is available in an automatic or manual version, from 62 to 84 swings, in 2 widths, allowing a capacity of 260 to 588 dough pieces to be achieved.



AUTOMATIC GROUP

ARCHIPEL is an automatic bread-making group composed of four pieces of equipment: a volumetric divider, a conical rounder, an intermediate proofing chamber and a moulder. Its compact design and ease of use and maintenance make it suitable for both small and large bakeries. With a capacity of up to 1200 pieces/hour, this four-in-one automated system produces high-quality baguettes and various breads.



SCAN TO VIEW MORE
RANGE OF PRODUCTS



HIGHLIGHTS

- Very high heat recovery performance
- Up to 70% energy cost savings
- No dust filtration required
- Low pressure loss
- Fully automatic rotor cleaning



HEAT-X ROTATE

Munters Heat-X Rotate is an innovative high-performance heat recovery system for poultry and swine stables with a compact construction.

The Heat-X Rotate effectively recovers heat from the exhaust air of poultry and swine farms. Compact and self-cleaning, this air-to-air heat exchanger features a unique, straightforward construction with direct air guidance without preliminary filtration. Heat-X Rotate is suitable for high-dust applications.

HIGHLIGHTS

- Corrosion-resistant construction
- More than 90% thermal efficiency optimizes energy use
- Oil or gas-fired burners for broad applicability
- Compact and modular design for easy handling and logistics
- IP55 enclosure protects against dust and moisture
- Ergonomic design simplifies maintenance
- Five-pole plug socket connects to control systems



GPMP

Munters GPmp air heaters provide efficient, cost-effective heating solutions for livestock farms and greenhouses. These compact air heaters deliver more than 90% thermal efficiency, optimizing performance while minimizing operating costs.

The GPmp air heaters use indirect-fired technology for superior heat output, ensuring more than 90% fuel conversion and reducing energy consumption. Durable corrosion-resistant construction and an IP55 electrical enclosure protect the heaters, while an ergonomic design facilitates maintenance. The five-pole plug socket facilitates connection to farm controllers or room thermostats for precise temperature control.

Danfoss



OIL NOZZLES FOR YOUR SERVICE

Danfoss offers a range of oil nozzles in both brass and steel for standard burner systems. We provide series of special nozzles which are adapted to operating area, media and emission to suit different markets.

We produce nozzles in accordance with EN 293 and EN 299. To ensure quality results, each nozzle is tested 100% electronically for capacity and spray pattern.

To avoid risks and to perform at its best, an oil burner needs the same attention as your car. Regular inspection and servicing are essential to ensure that it is running reliably and at optimum efficiency. Danfoss recommends changing the nozzle once a year for the benefit of the environment and operating performance.

FEATURES AND BENEFITS

- A well-adjusted burner can reduce oil consumption by as much as 10%. Keeping it free from soot can achieve even greater savings
- Danfoss recommends to change the nozzle once a year out of consideration for environment and operating performance.



Fluidics®
Instruments



DELAVAN®

A Beckett® Company

COMBUSTION SPRAY NOZZLES

Delavan has been designing and manufacturing nozzles for the liquid fuel heating industry for over 60 years. Quality assurance was important to us way back then and still is today. Since those early days, Delavan has grown and expanded into other markets such as nozzles and accessories for gas turbines, agricultural spray nozzles, industrial spraying, and automotive industry.



SPECIAL COMBUSTION APPLICATIONS



STANDARD COMBUSTION APPLICATIONS

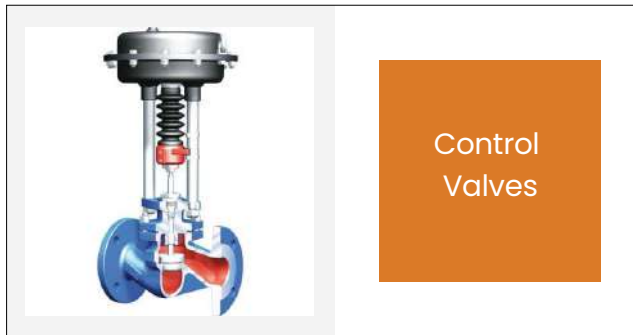




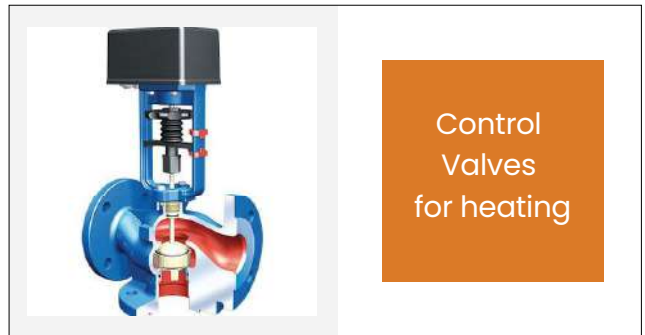
STEVI – your flexible control system for industrial applications!

Reap the benefits of ARI control valve technology with **STEVI!** Variable product solutions give you more flexibility, more power and more precision. For control – mixing / diverting – isolation even in harsh industrial environments.

And don't forget the PREMIO electric thrust actuator and its high-performance **PREMIO-Plus 2G** counterpart. Driving power made by ARI!



Control Valves



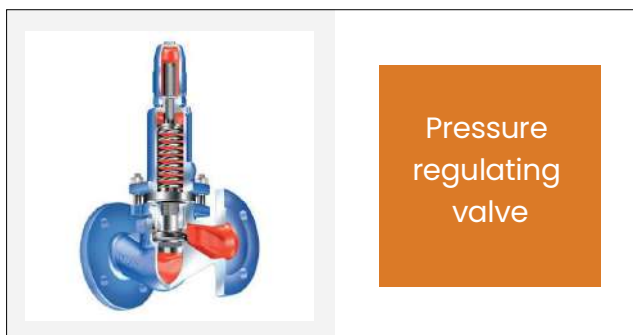
Control Valves for heating



Pressure reducing valves



Pressure regulating controller



Pressure regulating valve



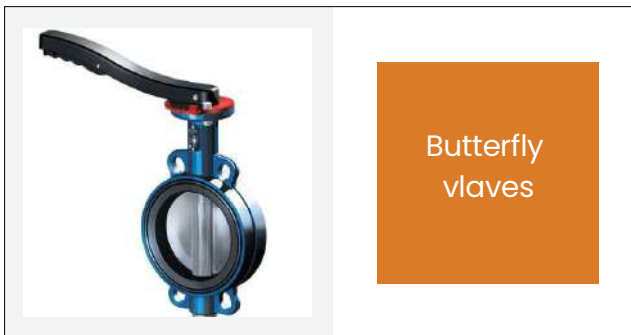
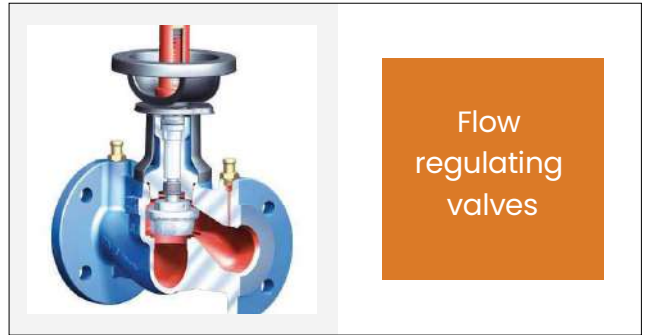
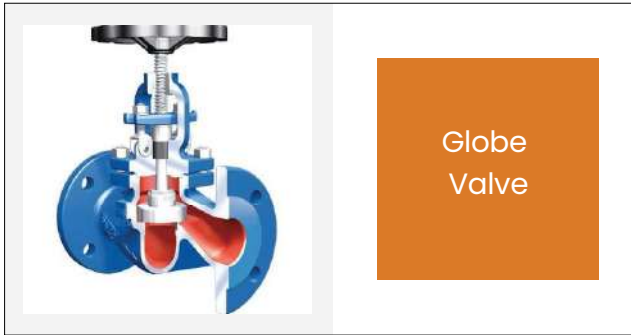
Temperature controller



FABA – the new generation with 100% tight shut-off technology! More than 17,000 variants.

ARI **FABA** bellows valves. Extra-tight shut-off due to "cut effect".
 Extra-tight shut-off due to conical marginal seat geometry.
 Extra-tight shut-off due to significantly increased seat pressure and longer

service life.
 Or **ZETRIX** – the ARI process valve for challenging applications.
 Triple offset design, metal seal and self-aligning sealing ring.





SAFE – flexible and safe. More than 35,000 variants!

ARI **SAFE** safety valves integrate advanced design features for optimal performance. Put your trust in certified safety: these valves are type test approved to VdTÜV, ASME and SAFE-Check – our new service for testing installed ARI safety valves (patent-pending test method that works without increasing the boiler pressure or interrupting operation of the plant –

absolutely no media loss).

Alternatively, **REYCO** is a complete range conforming to API 526. Accurate response, flip-over plug, optimal plug guiding, up to 6000 psi (414 bar)!

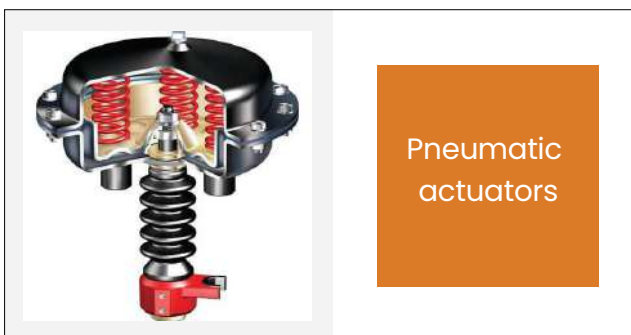


ACTUATOR

ARI actuators – the new generation of variable actuator technology!

Driving power made by ARI! Choose between pneumatic actuators from **DP32 to DP35** and our **PREMIO** or **PREMIO-Plus** electric actuators. The new **PREMIO-Plus 2G** is your ticket to the new generation

of variable actuator technology. Thanks to the BLDC motor with very high efficiency, extended lifetime, up to sixty percent lower power consumption and variable positioning.

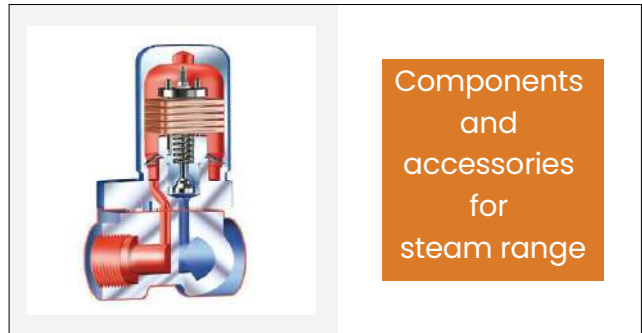




CONA – economy through energy savings

Save energy with **CONA's** advanced steam trap technology. Ball float, bimetallic, thermodynamic and balanced pressure steam traps or **CODI** manifolds. Cut costs and energy consumption with the patented

CONA-control monitoring system. Thousands of steam traps tested individually in just three seconds!



SYSTEMS



Reap the benefits of ARI systems for steam and condensate!

Profit from ARI's range of proven systems for pressure reduction, condensate recovery and return or steam-to-water heat transfer:

AUX

C-SERIES

STAR★★ / STAR★★★★



SOFT

Airflow through over 3000 micro vents produces gentle airflow while preventing drafts for ultimate comfort. Perfect to use while sleeping.

Micro vents: 1935 (12K) 2921 (18K) 3206 (24K)
Besides 2 Star 12-36K

40dB(A)

Quiet Library

30dB(A)

Sleeping Bedroom

AC Working Sound

10dB(A)

Wind Goes By Leaves



•Patent No.: 202121995992.8/ 202322368367.6

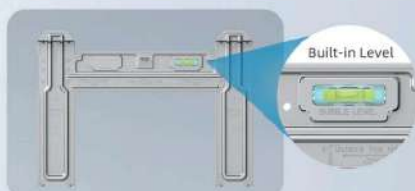
EASY INSTALLATION

With an installation guide, plate support and built-in level, installation can be done with only one technician instead of two cutting labor costs in half.



3) Plate Support

2) Detachable Underjaw
Besides 2 Star 30/36K



1) Installation Plate



2025

