

Comeval Valve Systems



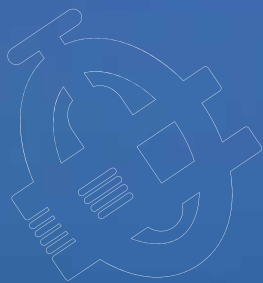
POWER

Valves and Flow control Products for the Power Market Segment

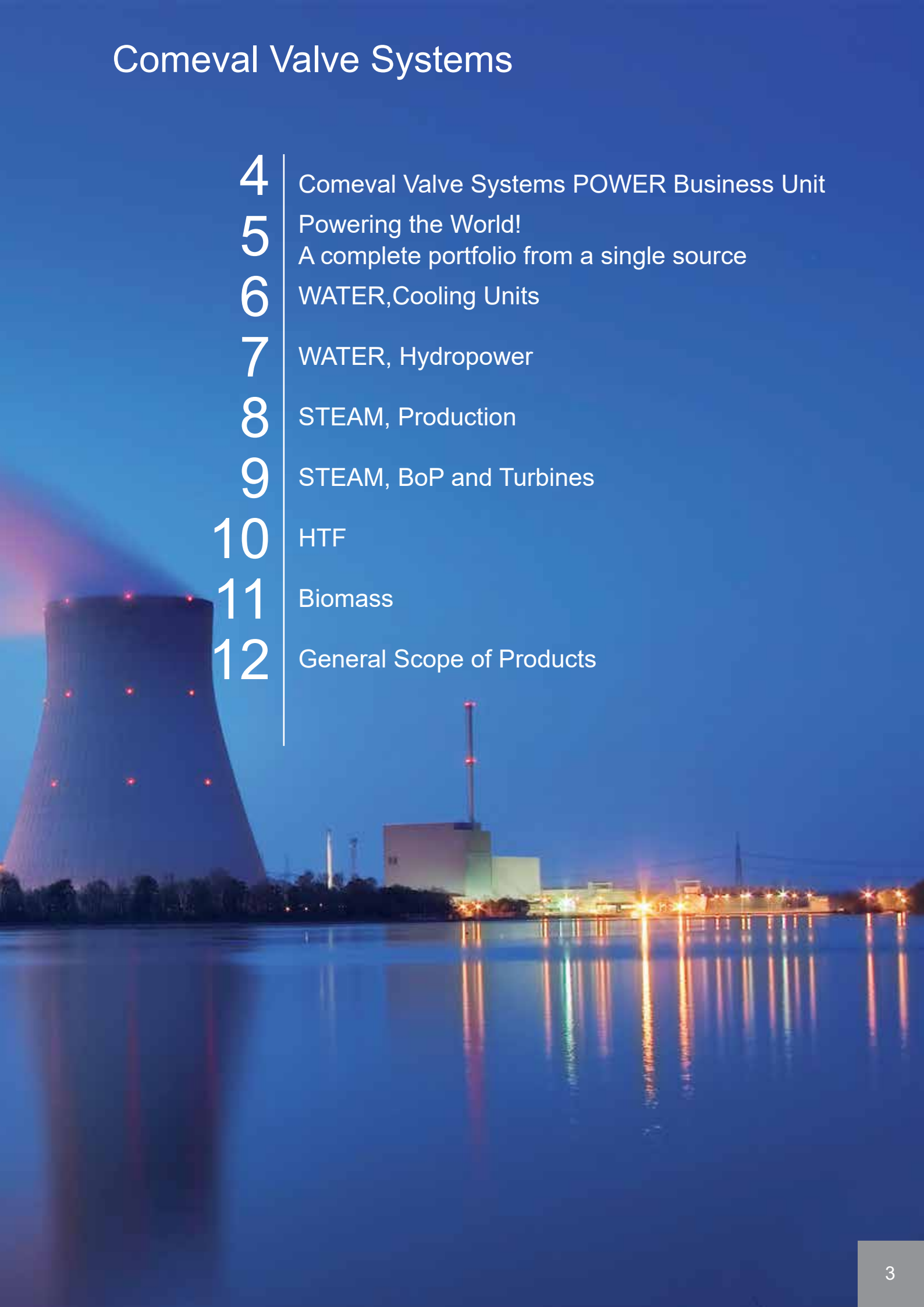
*Flowing innovation
.... since 1974*



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Comeval Valve Systems

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- 4 Comeval Valve Systems POWER Business Unit
 - 5 Powering the World!
A complete portfolio from a single source
 - 6 WATER, Cooling Units
 - 7 WATER, Hydropower
 - 8 STEAM, Production
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Comeval Valve Systems *POWER Business Unit*



Competence

Service

Customer Orientation

After Market Service

Technical Support

Assesment

Sizing Software

Smooth Logistics

Certification

International Reference List

Approvals

Thermal Saving

Maintenance Schemes

Industry Application Know How



Our Company posses a market experience of more than 45 years, most of them serving international Organizations well anchored within the market segment of power, Pressure Vessels Manufacturers, Renewable energy projects and Process Industries. Our competence is a distinctive value of our Organization through our sales engineers, workshop team and our partners network all around the world. We are not only supplying high quality products but added value to your Company, assessing and accompanying you along the project execution till the close out.



Powering the World!

A complete portfolio from a single source

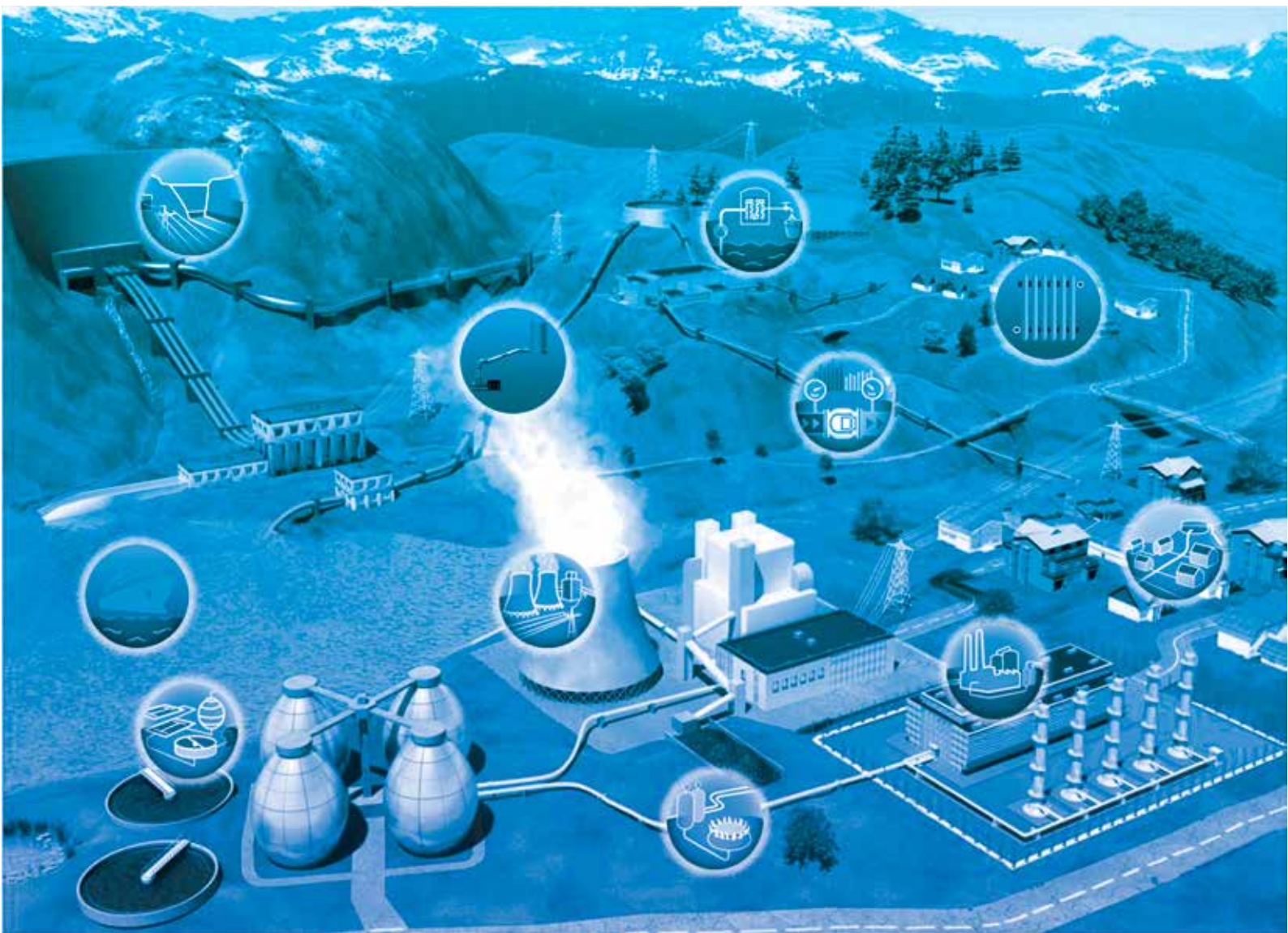
The full energy cycle at a power plant starts at the water source where the sea, river or lake water is pumped up to treatment and flown to the cooling unit before being vaporized and conditioned to motive steam to the turbine group thus generating electricity.

A rich portfolio of valves and flow control products make the

supply process easier for our customers and partners based in the power sector. We are manufacturing and supplying valves for cooling water systems as well as the BoP and Turbine Group.

This one-stop-shop supply philosophy is available to our customers easing the procurement process at the time to

standardize a single path for aftermarket, start up, commissioning and guarantee steps. Manual isolating valves, control valves, safety valves and other flow control specialties are featuring our rich portfolio. At your reach, with moderate cost and high benefits for you.



References all around the five continents

End users are found all around the 5 continents through our regular contracts with international EPCs. An extensive record of references is under permanent update and available to support our partner's work.

WATER, Cooling Units.

Thermal Power Plants
Nuclear Reactors

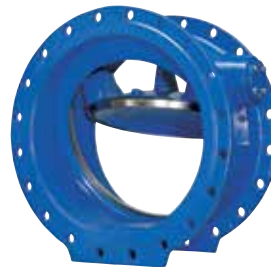
Source Pumping, treatment and feeding the HRSG

The cooling process starts up with the water collection and pumping up to the feedwater and treatment systems before being supplied to the steam generators.

Only reliable and proven quality valves should be used for this critical plant area. Our distinctive portfolio is comprehensive of ON/OFF isolating butterfly valves, double and triple offset design, manual and motorized operation as well as control valves, plunger / needle design for axial flow control, tilting disc check valves and feedwater control valves.



Double and triple offset butterfly valves
Face to face length to EN 558-1 S.13 and S14
MoC: DI (FBE), Cast steel and St. Steel
Flanged EN PN 10-25 , option ANSI 125-150 AWWA
Size range up to DN 2000 (80")
Operation by worm hand wheel, pneumatic and electric actuators.
Range of options available.



Check Valves
Tilting, butterfly and check, axial, ball and swing and flex swing style
With spring, hydraulic damper, soft seat and other options.

Rubber and Metal Compensators
Bellows Made of synthetic rubber or stainless. Steel, flanged, welded, or screwed ends, vacuum service on demand.



Needle flow control valves
Axial control by plain or slotted cylinder for anti-cavitation.
Standard design: DI (FBE), PN 16-40 – ANSI 150-300, DN 80-DN 1000, with worm gear or electric actuator.
Other options of materials, rating and size on demand.



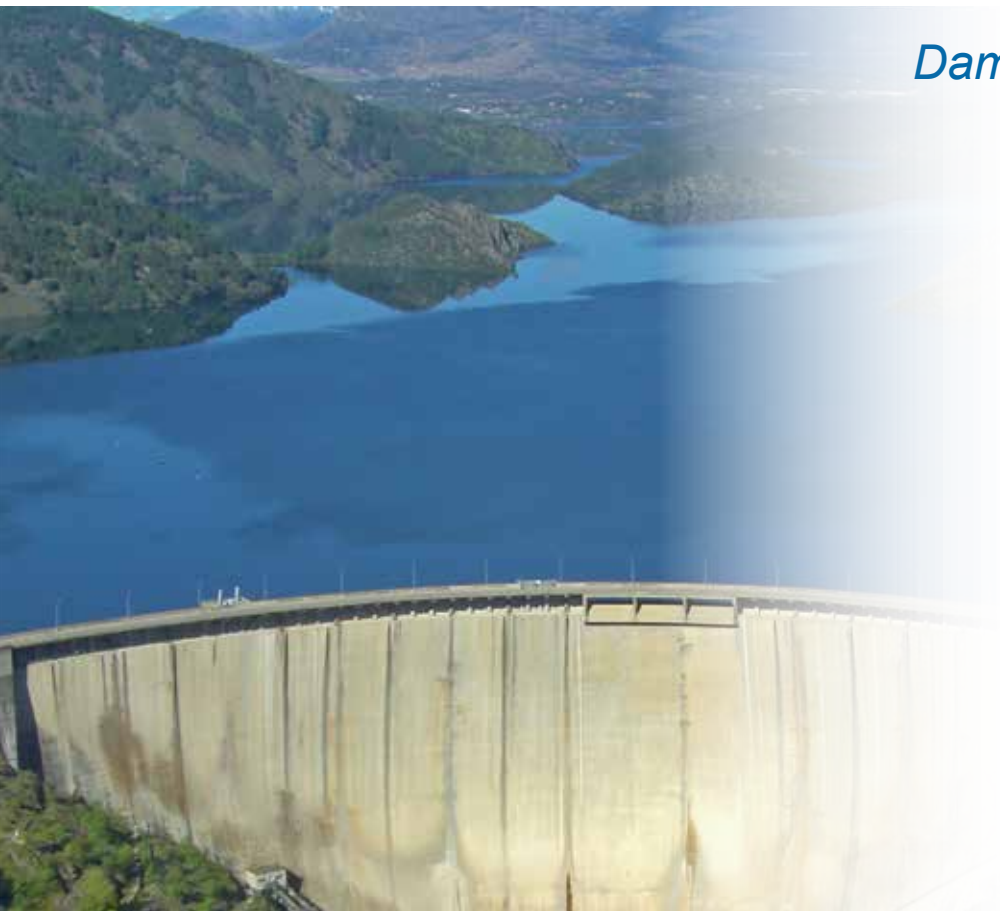
Automatic Recirculation Valves
Straight through or angle pattern, for minimum recirculation pump flow, self-acting or pneumatic operated, flanged to ANSI range.

WATER, Hydropower.

Dams, pumping Stations and Hydro-Turbines

Taking advantage of the water motive generated at dams by gravity a clean and simple energy is obtained.

The turbines are powered by the water pressure to the required parametres. A portfolio of diverse isolating and control valves are available to manage water control at dams and reservoirs.



Gate Valves
MoC: Cast steel and St. Steel
Flanged EN PN 10-25, ANSI 150-2500
Size range up to DN 1200 (48")
Operation by worm hand wheel and electric actuators.
Range of options available



Needle flow control valves
Axial control by plain or slotted cylinder for anti-cavitation.
Standard design: DI (FBE), PN 16-40 – ANSI 150-300, DN 80-DN 1000, with worm gear or electric actuator.
Other options of materials, rating and size on demand.



Emergency Shut Down (ESD) valves
To protect the turbine operations
Face to face length to EN 558-1 S.13 and S14
MoC: DI (FBE), Cast steel and St. Steel
Flanged EN PN 10-25 , option ANSI 125-150
AWWA
Size range up to DN 2000 (80")
Operation by worm hand wheel, pneumatic and electric actuators.
Range of options available.



Self-Acting and Float Control Valves
Self-acting with lever in straight through or angle pattern to control water level at reservoirs, pilot operated control valves for modulating level, ON/OFF, minimum, and maximal, Altitude control.
MoC: DI (FBE) – stainless steel internals
Range of options available.

STEAM, Production

Thermal Power Plants,
Combined Heat Power Plants,
Bay of Power,
Nuclear Power Plants

Heat Recovery Steam Generators

The steam generation is achieved through the Heat Recovery Generators where water is vaporised and conditioned into the suitable pressure and temperature to flow into the turbine.

Our range of valves and flow control products is comprehensive of the suitable product design to furnish turbines, boiler domes, feedwater control tanks and deaerators, right at the heart of the boiler room, steam distribution and turbine area.



Desuperheaters

Variable and fix nozzle, with integral design or additional water control valve,
Steam inlet Flange EN / ANSI PN 16-250,
ANSI 150-2500
Operation by Pneumatic actuators and smart positioners.
Sized as per plant process data



Feed Water Tank control valves

ST and 3-ways pattern, PN 16-64 – ANSI 150-600, with pneumatic or electric actuator.
Materials: A216 WCB – A 351 CF8M
Other options of materials, rating and size on demand.



Pressure Safety Valves


ASME Sec. VIII – by NB
Conventional and Balanced design
Full Nozzle API 526 design, flanged ANSI B.16.5 RF
MoC: Cast steel and St. Steel
Rating: inlet up to 2500#, Size range up to 12" – Orifice T
Closed bonnet, open bonnet, cap.



High pressure level gauges

Electronic visual and remote indication of water level at the boiler dome, with conductivity probes and digital bi-colour display, including pressure water column, probes, junction box and isolating and venting valves.

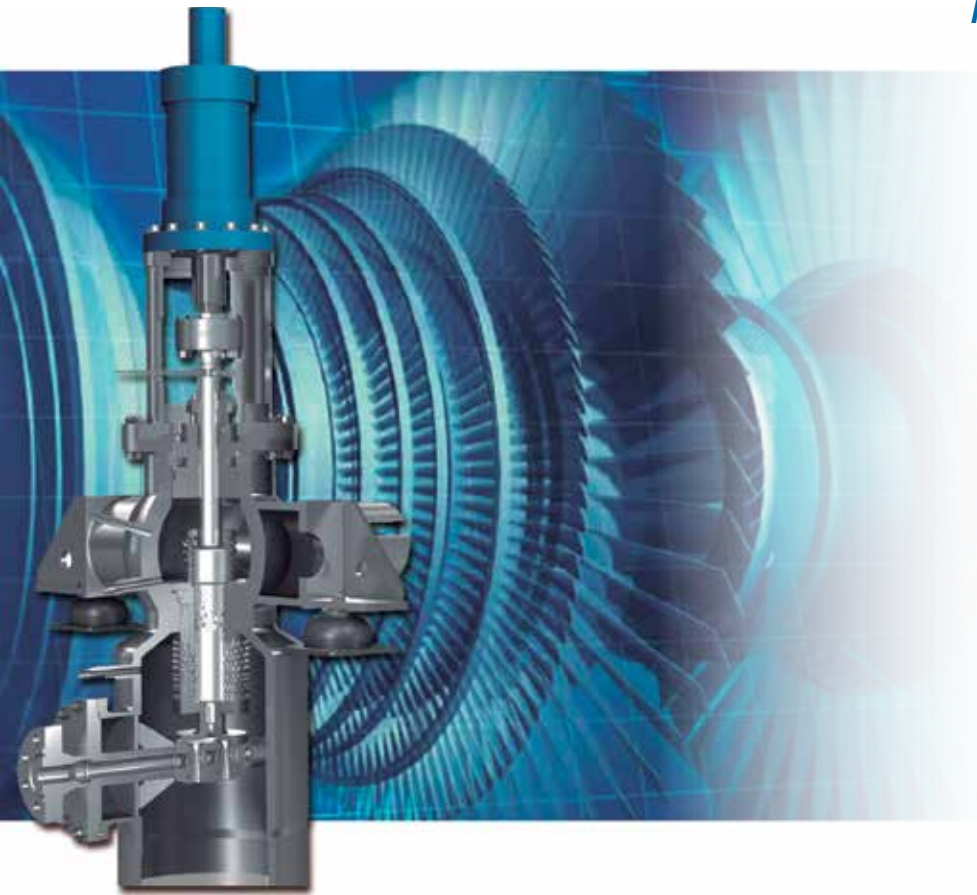
Available approvals and certifications

ISO 9001:2015 * PED2014/68/CE * ASME I * ASME VIII (sello V por NB) * ASME IX (QWP) * ASME B 16.34  ATEX 94/9/CE

Detailed Technical Catalogs available, request to marketing@comeval.es

STEAM, BoP and Turbines

HO, IP, LP Steam Turbine, Condenser and BoP



Steam Turbine Systems are located at the end of plant before electric generators connected to the grid. Steam is expanded in the turbine and flow through the condenser where the residual heat is dissipated throughout the plant cooling towers and exhausted to the atmosphere. The condensate is returned to the HRSG through the water heaters.

The bypass system valves mean a critical part of the supply since they have to be designed according to severe process condition of steam that needs to be conditioned in terms of excessive pressure drop and temperature.



Turbine drain valves, severe control valves
Designed in straight and angle pattern, Diverse plug designs including labyrinthic for abrupt pressure drops, high temperature alloys
EN / ANSI PN 16-250, ANSI 150-2500
Operation by Pneumatic actuators and smart positioners.
Sized as per plant process data



LP and HP Bypass turbine valves
Designed in straight and angle pattern, To suit the most arduous duties at the plant, High pressure and temperature designs. Operation by Pneumatic actuators and smart positioners and electric actuators.



Control Valves
Designed in straight and angle pattern in linear applications and High-Performance Butterfly valves for rotary stem valve design., Diverse plug designs
EN / ANSI PN 16-250, ANSI 150-2500
Operation by Pneumatic actuators and smart positioners.
Sized as per plant process data.



Vent Silencers
Absorptive or combined absorptive – dissipating design for noise level attenuation at the discharge outlet valves. Sized and manufactured to suit the noise level requirements.

Solar Thermal Plants Tank Storage



Parabolic Through Pipework at Solar Power Plants

Solar field is the area at solar power plants where sun rays are collected and heated through the parabolic mirror systems with heat transfer fluid. A Heat Transfer Fluid superheater generates steam to start up the steam cycle.

The steam process is then that one of the typical steam plants. Heat Transfer Fluid is usually used as heating process fluid and it is featured by high temperature therefore purposely design valves are required in terms of stem sealing and other features to prevent fugitive emissions. Our portfolio is comprehensive of a wide range of valves suited to this duty.



Bellow Sealed Globe Valves
With BW and flanged connections, provided with double walled stem below, Rating from 800# - 2500# and materials of construction from Ductile Iron for low pressure to alloy materials for high pressure.



Triple Offset Butterfly Valves
Metal seated butterfly valves with a special sealing geometry to ensure bidirectional zero leakage, design: EN PN 16-100 / ANSI 150-600, with pneumatic or electric actuator. Materials: A216 WCB - A 351 CF8M. Other options of materials, rating and size on demand.



High Temperature Control Valves
Provided with bellow seal to avoid wearing of gland packing, straight through pattern, removable seats, reduced Cv, diverse plug design, with pneumatic and E/P smart positioners or electric actuators.



Rotary Control Valves
V-type ball valves with iso percentage flow characteristic, wafer style end connections. With Stellite seat, diverse seats materials of construction and operation.

Biomass

Biomass Steam Generators,
Biodiesel plants,
Solid Waste Plants
Tank Storage

Renewable Power plants

Clean fuels mean an alternative to fossil and pollutant fuels. Biomass and other subproducts such as forest residues, solid waste, hay, animal waste, sludge are used as clean fuels to power the boilers and HRSG whilst contributing to a better environment.

Other new and clean energies are in example biogas and green hydrogen. The use of organic waste is the biomass product used to generate biogas which is a rich and natural power source for industry. Green hydrogen is produced in electrolyzers by separation of O₂ and N₂ by simple use of water. Hydrogen is also a clean source to power industry, building and transports.

Biofuels are store in tanks and flame arresters are required to avoid ignition or detonation by internal or external sources. A complete portfolio of valves and flow control products is available to these applications of an increasing expansion.



Blanketing Valves
Made in steel and stainless steel, these valves are devised for inert gases. With diverse end connections and set pressures up to 14 psi.



Low Pressure Pilot Operating safety valves
Pressure and vacuum relief valves, pressure safety valves or vacuum valves, with counterweight, spring, or pilot design, diverse Materials and atmospheric or piped discharge.



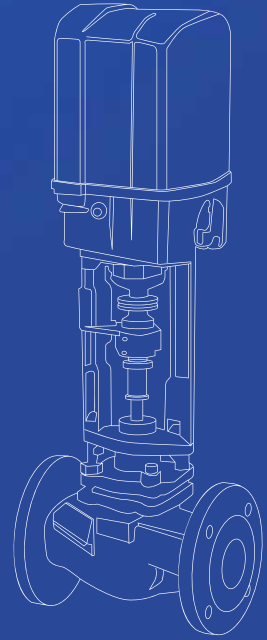
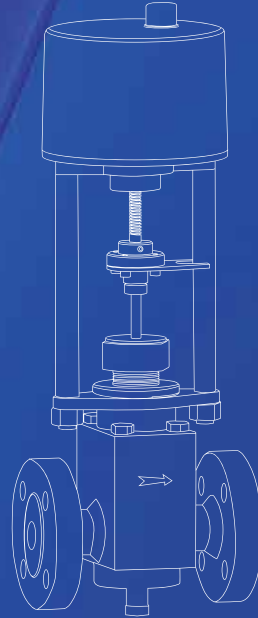
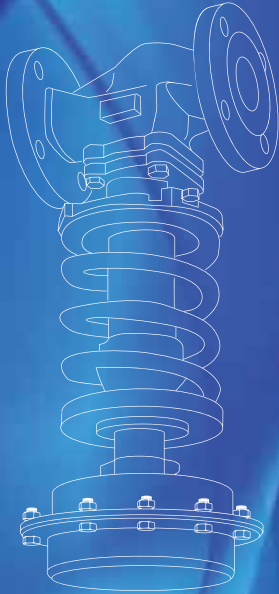
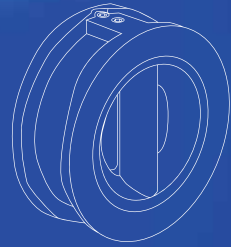
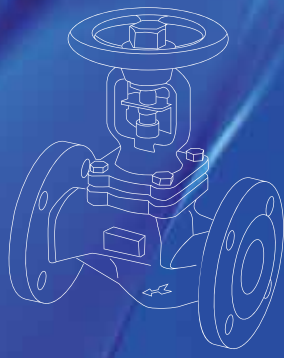
Flame Arrestors
In line or end of line options, flame arrestors are essential devices to protect the plant against deflagration and detonation in diverse plants as petro chemical, chemical, biogas, waste treatment and others.



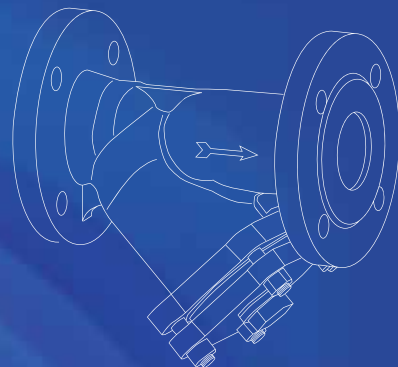
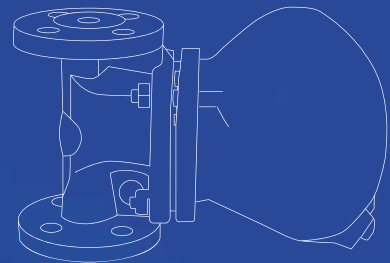
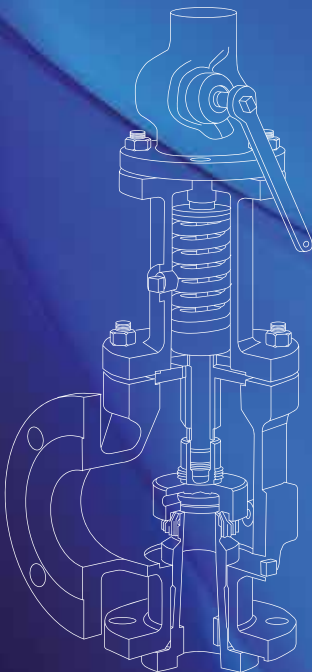
Self-acting Control Valves
Pressure, level or temperature control, self-acting valves require no auxiliary energy and work with the plant fluid. The valve design is fitted to the diverse process applications depending on water, steam or HTFs.

Available approvals and certifications
ISO 9001:2015 * PED2014/68/CE * API 2000 *  ATEX 94/9/CE

Detailed Technical Catalogs available, request to marketing@comeval.es

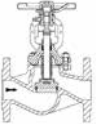
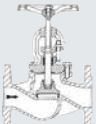

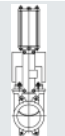

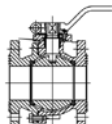


General Scope of Products
Power, Industry and Water Works



Isolating Valves



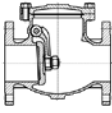

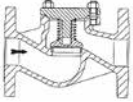


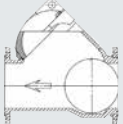
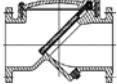
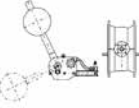
PRODUCT	DESIGN	DESIGN PRESSURE	SIZE	MAIN M.O.C.	END CONNECT.	MODEL	BRAND
 BELLOWS SEALS VALVES DIN / ANSI / API / FORGED	Straight Through Y Pattern Angle Pattern EN 558-1 ANSI B.16.10	PN16/160 ANSI150/900	DN15-DN500	1 - 2 - 3 - 4 - 5 - 6	Flanged, Welded, Threaded	FABA	ARI® UNIFLOW®
 GLOBE VALVES DIN / ANSI / API / FORGED	Straight Through Y Pattern Angle Pattern 3 ways EN 558-1 ANSI B.16.10	PN16/640 ANSI150/2500	DN15-DN500	1 - 2 - 3 - 4 - 5 - 6	Flanged, Welded, Threaded	STOBU Series 80	ARI® UNIFLOW®
 GATE VALVES DIN / ANSI / API / FORGED	Inner Screw Outside Screw	PN16/640 ANSI150/2500	DN15-DN1800	1 - 2 - 3 - 4 - 5 - 6	Flanged, Welded, Threaded	Series 90	UNIFLOW®
 KNIFE GATE VALVES DIN	Uni directional Full conduit Bi directional	PN6/16	DN50-DN600	1 - 2 - 3 - 4 - 5	Wafer, Lug	Series VG	TCF®
 DIAPHRAGM VALVES DIN / ANSI EN 558-1 BS 5156	Weir Type, Straight Through	PN10/16 ANSI125/150	DN6-DN350	1 - 2 - 3 - 4 - 5 - 6	Threaded, Flanged	W, ST	DIAVAL®
 BUTTERFLY VALVES DIN / ANSI	Centric, Double Off-set, Triple Offset	PN10/40 ANSI150/300	DN25-DN1800	1 - 2 - 3 - 4 - 5 - 6	Wafer, Lug, Flanged, Welded	Series VF	ARI® UNWAT®
 BALL VALVES DIN / ANSI / API / FORJADAS	2 bodies, 3 bodies, floating ball Trunnion Segment	PN16/640 ANSI150/2500	DN6-DN900	2 - 3 - 4 - 5 - 6	Wafer, Flanged, Welded	Series BV	ARI® UNIFLOW®

Refer to our Product Data Sheets for Complete Technical data.
Operation by Manual Hand Lever, Worm Gear and Actuators.

Main Body Material of Construction: Cast Iron (1) Ductile Iron (2)
Carbon Steel (3) Stainless Steel 304 (4)
Stainless Steel 316 (5) Other (6)

Check Valves



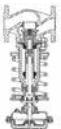

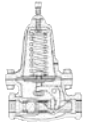



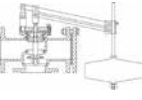

PRODUCT	DESIGN	DESIGN PRESSURE	SIZE	MAIN M.O.C.	END CONNECT.	MODEL	BRAND
 <p>SWING CHECK VALVES GLOBE DIN / ANSI / API / FORGED</p>	Swing Full bore	PN16/640 ANSI150/2500	DN15- DN900	3-4-5-6	Flanged, Welded, Threaded	Series 35	UNIFLOW®
 <p>SWING CHECK VALVES WAFER DIN / ANSI</p>	Wafer Swing Reduced bore	PN16/250 ANSI150/1500	DN32- DN800	3-4-5-6	Wafer	Series CV	UNIFLOW®
 <p>LIFT DISC CHECK VALVES DIN / ANSI / API / FORGED</p>	Straight Through Y Pattern	PN16/160 ANSI150/1500	DN15- DN900	1-2-3-4-5-6	Flanged, Welded, Threaded	Series 03	ARI®
 <p>DISC CHECK VALVES DIN / ANSI</p>	Wafer Spring Loaded Disc	PN6/160 ANSI150/900	DN15- DN350	3-4-5-6	Wafer	Series CVD	CHEMVALVE®
 <p>DUAL PLATE CHECK VALVES DIN / ANSI / API</p>	Wafer Swing Spring Loaded	PN16/420 ANSI150/2500	DN50- DN1200	1-2-3-4-5-6	Wafer, Lug, Welded	Series DP	UNIFLOW®
 <p>BALL CHECK VALVES</p>	Rubber coated ball; by gravity	PN16/10	DN25- DN300	1-2	Flanged, Threaded	3240 3241	UNIWAT®
 <p>RESILIENT FLAP CHECK VALVE</p>	Inclined rubber disc seatless	PN 10 / 16	DN 40-500	2	Bridas	Series 5107	UNIWAT®
 <p>BUTTERFLY CHECK VALVE WITH COUNTERWEIGHT</p>	Butterfly with counterweight, adjustable speed control and ON/OFF	PN6 / 10 / 16 / 25 / 40	DN150- 4000	2	Bridas		UNIWAT® UNIFLOW®

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Self Acting Control Valves



PRODUCT	DESIGN	DESIGN PRESSURE	SIZE	MAIN M.O.C.	END CONNECT.	MODEL	BRAND
 DIRECT ACTING PRESSURE REGULATORS VALVES	Inner Sensor External Sensor Diff. pressures Sanitary range	inlet pressure up to 5000 psig (340 barg) Outlet pressure up to 500 psig (34 barg)	1/2"-4" DN15-100	1 - 2 - 3 - 4 - 5 - 6	Threaded, Flanged	Varios 701 753	ARI® CASHCO®
 DIRECT ACTING PRESSURE REDUCING VALVES	For liquid media	inlet pressure up to 40 barg Outlet pressure up to 10 barg	DN 50- DN 150	2 - 5	Flanged, Threaded	VRD	CSA®
 PILOT OPERATED PRESSURE REDUCING VALVES	Pilot operated	inlet pressure up to 300 psig (20 barg) Outlet pressure up to 150 psig (10 barg)	1/2"-4" DN15-100	1 - 3 - 4 - 5 - 6	Threaded, Flanged	Misc.	CASHCO®
 BACK PRESSURE REGULATORS	Inner Sensor External Sensor Diff. pressures Sanitary range	Up to 800 psig (55 barg)	1/2"-4" DN15-100	1 - 3 - 4 - 5 - 6	Threaded, Flanged	Misc.	CASHCO®
 TEMPERATURE REDUCING CONTROL VALVES	Thermostatics 2 or 3 ways	PN16-40	1/2"-2" DN15-500	1 - 2 - 3 - 4 - 5 - 6	Threaded, Flanged	701	ARI®
 SELF ACTING MULTI FUNCTION CONTROL VALVES	Piston type plug, with diaphragm, diverse pilot functions, speed control	PN 10/16/25	DN 50 – DN 400	2	Bridas	XLC – 400	CSA®
 SELF ACTING FLOAT VALVES	Direct action by lever and float control	PN10/16	1"- 1 1/4" DN 50 - DN 300	2	Bridas, Roscar	ATHENA	CSA®
 ANTI SURGE VALVES	Spring loaded, direct action	PN 16/25/40	DN 50 - 200	2	Bridas	VRCA	CSA®

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Control Valves







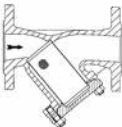
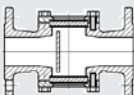


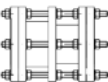
PRODUCT	DESIGN	DESIGN PRESSURE	SIZE	MAIN M.O.C.	END CONNECT.	MODEL	BRAND
	Manually operated, inclined seat, visual position indicator	PN6/PN16	DN15-200	1	Bridas, Rosca	EUROWEDI	ARI®
	Straight Through With Pneumatic or Electric Actuator Gland or bellow sealed	PN16/40 ANSI 150 / 300	DN15-500	1 - 2 - 3 - 4 - 5 - 6	Flanged	STEVI 405 STEVI 460	ARI®
	Straight Through With Pneumatic or Electric Actuator Gland or bellow sealed Guided plug Hardened plug	PN16/40 ANSI150/300 up to PN640 up to ANSI2500	DN15-500	1 - 2 - 3 - 4 - 5 - 6	Flanged, Threaded Welded	STEVI 440/470/ 422/425 STEVI 441/471/ 462/426 448/449	ARI®
	With Pneumatic or Electric Actuator Gland or bellow sealed	PN16/40 ANSI150/300 up to PN640 up to ANSI2500	DN15-300	1 - 2 - 3 - 4 - 5 - 6	Flanged, Threaded	STEVI 450/423 STEVI 451/463 Varios	ARI®
	With Pneumatic, Electric or Hydraulic Actuator Multiple plug designs	ANSI125/1500	1/2"-16"	3 - 4 - 5 - 6	Flanged, Welded	Misc.	PARCOL®
	Integrated or external water control; Mech. nozzles	ANSI150/1500 (water side) ANSI150/900 (steam side)	1"-3" (water side) 3"-6" (steam side)	3 - 6	Flanged	Misc.	PARCOL®
	Axial movement, flow control in line or discharge lines, featured cylinders for anti cavitation	PN10-100	DN150-2000	2	Bridas		UNIWAT®

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Stainless Steel 316 (5) Other (6)

Piping Accessories





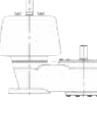
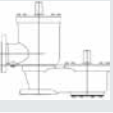







PRODUCT	DESIGN	DESIGN PRESSURE	SIZE	MAIN M.O.C.	END CONNECT.	MODEL	BRAND
 AIR VENTS	Single acting, clean water	PN 10/16/25/40	DN 1", DN 50/80/100	2	Rosca, Bridas	VENTOLO	CSA®
 AIR VENTS FOR CLEAN WATER	Double and triple acting, with anti hammer device, special design for sea water	PN 10/16/25/64	DN 1" - 2", DN 50 - DN 400	2 - 5 - 6	Rosca, Bridas	ARGO LYNX FOX FOX HP GOLIA	CSA®
 AIR VENTS FOR SEWAGE	Double and triple acting Special executions	PN10/16	DN 50 - DN 200	2 - 4 - 5 - 6	Bridas	SCF - SCA - SCS	CSA®
 VENTED ANTI SURGE TANKS	Mechanical design, no bladder, For clean and sewage water	PN10/16	300 l - 25.000 l	3 - 4 - 5 - 6	Bridas	AVAST	CSA®
 STRAINERS	Y Pattern Basket type EN 558-1 ANSI B.16.10	PN 16/64 ANSI 150/600	DN15-DN500	1 - 2 - 3 - 4 - 5 - 6	Flanged, Threaded, Welded	050 630 955 629	UNIWAT® ARI®
 SIGHT GLASSES	Double glass	PN16-640	1/2" - 2" DN15-DN50	1 - 2 - 3 - 4 - 5	Flanged, Threaded, Welded		ARI®
 RUBBER EXPANSION JOINTS	Single/ Double Sphere	PN10/16	3/4" - 48"	6	Flanged Locas Threaded	S10 S20 S30	TORAFLEX®
 METAL COMPENSATORS	St. Steel bellows	PN 16/25	3/4" - 12"	4 - 5	Welded, Flanged	S25 S50	TORAFLEX®
 TELESCOPIC DISMANTLING JOINTS		PN10-40	DN40-1600	3-4-5-6	Bridas		

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Operation by Manual Hand Lever, Worm Gear and Actuators.

Main Body Material of Construction: Cast Iron (1) Ductile Iron (2)
Carbon Steel (3) Stainless Steel 304 (4)
Stainless Steel 316 (5) Other (6)

Pressure Safety Valves







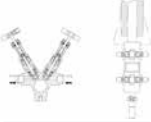

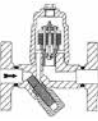
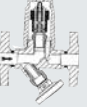
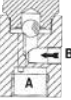
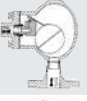


PRODUCT	DESIGN	DESIGN PRESSURE	SIZE	MAIN M.O.C.	END CONNECT.	MODEL	BRAND
 FULL LIFT SAFETY VALVES DIN / ANSI / ASME NB	Spring loaded Balanced	PN16/40 ANSI150/2500	1/2"x1" - 20x24" DN20/32- DN150/250	1 - 2 - 3 - 4 - 5 - 6	Flanged, Threaded	900	ARI®
 SAFETY RELIEF VALVES DIN / ANSI / ASME NB	Spring loaded Balanced	PN16/40 ANSI150/2500	1/2"-1.1/2" DN15-DN100	1 - 3 - 4 - 5 - 6	Flanged, Welded, Threaded	920	ARI®
TANK VAPOUR VALVES							
 Pressure/ Vacuum valves Atm. venting	By weight Spring loaded Pilot Operated	Up to 15 psig (pressure) Up to 12 psig (vacuum)	2"-12"	3 - 4 - 5 - 6	Flanged	3100 4100 5100	VCI CASHCO®
 Pressure/ Vacuum valves Pipe venting	By weight Spring loaded Pilot Operated	Up to 15 psig (pressure) Up to 12 psig (vacuum)	2"-12"	3 - 4 - 5 - 6	Flanged	3200 4200 5200	VCI CASHCO®
 Vacuum valves	By weight Spring loaded	Up to 12 psig	2"-12"	3 - 4 - 5 - 6	Flanged	3300/3600 4300/4600	VCI CASHCO®
 Pressure relief valves; Atm. venting	By weight Spring loaded Pilot Operated	Up to 15 psig	2"-12"	3 - 4 - 5 - 6	Flanged	3400 4400 5400	VCI CASHCO®
 Pressure relief valves; Pipe venting	By weight Spring loaded Pilot Operated	Up to 15 psig	2"-12"	3 - 4 - 5 - 6	Flanged	3500 4500 5500/1049	VCI CASHCO®
 Blanketing valves	Pilot Operated	Up to 14 psig	1/2", 1", 2"	3 - 4 - 5 - 6	Flanged	1078/1088	VCI CASHCO®
 Emergency breathers	Lower guided Upper guided	Up to 15 psig	20" y 24"	3 - 4 - 5 - 6	Flanged	3700 3800 3900	VCI CASHCO®
 Flame arrestors	API2000		1/2"-24"	1 - 3 - 4 - 5 - 6	Flanged	7100 a 7700	VCI CASHCO®
 Silencers	In line or atmospheric discharge			3 - 4	Flanged		STN

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Main Body Material of Construction: Cast Iron (1) Ductile Iron (2)
Carbon Steel (3) Stainless Steel 304 (4)
Stainless Steel 316 (5) Other (6)

Steam Traps and Steam Specialities













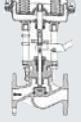


PRODUCT	DESIGN	DESIGN PRESSURE	SIZE	MAIN M.O.C.	END CONNECT.	MODEL	BRAND
 BIMETALLIC STEAM TRAPS	Miscellaneous designs	PN16/630 ANSI150/2500	1/2"-2" DN15-50	1 - 3 - 5 - 6	Flanged, Threaded, Welded, Uni- versal Con.	CONA 600	ARI®
 THERMOSTATIC TRAPS	Miscellaneous designs	PN16/40 ANSI150/300	1/2"-2" DN15-50	1 - 3 - 5 - 6	Flanged, Threaded, Welded, Wa- fer, Universal Con.	CONA 610	ARI®
 MECHANICAL FLOAT TRAPS	Miscellaneous designs	PN16/160 ANSI150/900	1/2"-2" DN15-100	1 - 2 - 3 - 5 - 6	Flanged, Threaded, Welded, Uni- versal Con.	CONA 630	ARI®
 THERMODYNAMIC TRAPS	Miscellaneous designs	PN40/63 ANSI150/300	1/2"-1" DN15-25	3 - 5 - 6	Flanged, Threaded, Welded, Uni- versal Con.	CONA 640	ARI®
 MANIFOLDS (DISTRIBUTING & COLLECTING OF STEAM/CONDENSATE)	Gland or bellow sealed	PN40/63	1/2"-2" DN15-50	3 - 5 - 6	Flanged, Welded	CODI	ARI®
 CONDENSATE REMOVAL START UP VALVES	Straight Through	PN16-40		1 - 3	Flanged, Welded	665	ARI®
 CONDENSATE DISCHARGE VALVES	Straight Through	PN40	1/2"-1" DN15-25	3	Flanged Threaded, Welded	645/647	ARI®
 TEMPERATURE CONTROL FOR LIQUID RETURN	Straight Through	PN40	1/2"-1" DN15-25	3	Flanged Threaded, Welded	650	ARI®
 VACUUM BREAKERS	Angular Pattern	PN40	1/2"	5	Threaded	655	ARI®
 VENTING FOR LIQUIDS	Angular Pattern	PN16/40	1/2"-1" DN15-25	2 - 3 - 5	Flanged Threaded, Welded	656	ARI®
 SEPARATORS	Centrifugal	PN16/40 ANSI150/300	1/2"-2" DN15-200	3 - 5	Flanged Threaded	DATRO®	ARI®
REMOVABLE THERMAL INSULATION COVERS			Wool fibre made			7100 a 7700	E+
 TRAP TESTING DEVICE						ARI- METEC- S	ARI®

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Main Body Material of Construction: Cast Iron (1) Ductile Iron (2)
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Stainless Steel 316 (5) Other (6)

Instrumentation and Control Boiler Room

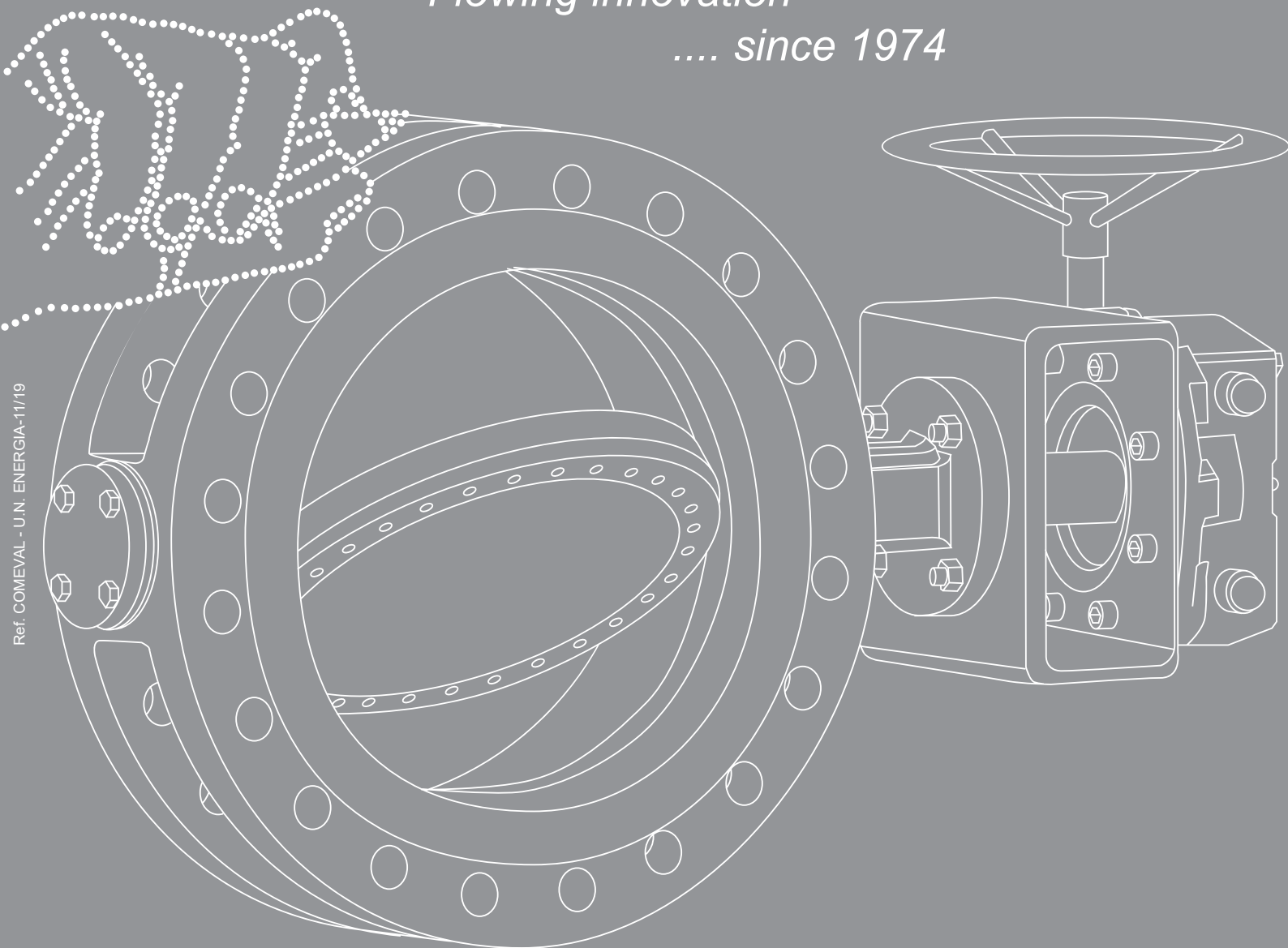


PRODUCT	DESIGN	DESIGN PRESSURE	SIZE	MAIN M.O.C.	END CONNECT.	MODEL	BRAND
  LOW AND VERY LOW LEVEL CONTROL, HIGH SAFETY STANDARD	CE Category IV	up to 32 bar	3/4"	5	Threaded	ERK-S + ENT220	ERAB®
  LOW AND HIGH LEVEL CONTROL	CE Category II	up to 72 bar	1 1/2"	5	Threaded	ERK + SH3/ ENT120/ ENT350	ERAB®
  ON/OFF PUMP + HIGH AND LOW LEVEL CONTROL	CE Category II	up to 72 bar	1 1/2"	5	Threaded	ER8 + SH5/ ENT120/ ENT350	ERAB®
  MODULATING LEVEL CONTROL	CE Category II	up to 10 bar	1 1/2"	5	Threaded	ER-N4-20 + ENT420 + PID BS2300	ERAB®
  TDS CONTROL	CE Category II	up to 10 bar	1"	5	Threaded	ER-us	ERAB®
 AUTOMATIC BLOW DOWN VALVES	GLOBE TYPE. STELLITED PLUG. SINGLE ACTING PNEUM. ACTUATOR	PN 40	DN 25-50	3	Flanged	STEVI 415	ARI®
 AUTOMATIC BLOW DOWN VALVES	BALL TYPE, REINFORCED PLUG. SINGLE ACTING PNEUM. ACTUATOR	PN 40	DN 20-50	3 - 5	Wafer Flanged	465 KC	ARI® HOGFORS®
 LEVEL GAUGES	-Water column with drum connection -Visual Bi-color and remote. -Magnetic			3	Flanged, Welded	1000 3000	Aquarian®

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