

RELY ON EXCELLENCE

## Sealing expertise for water applications

Technology, service, knowledge.  
To the clear advantage of every industry.

Discover the impressive range of  
EagleBurgmann sealing solutions

Edition ACEMEA



# Experience and technology everyone can profit from.

Not all water is the same. Depending on the application, it comes in many different compositions and qualities: untreated water, seawater, or brackish water, purified or drinking water, industrial process water, hot water, or wastewater.

The process requirements for different water applications are just as varied as the medium itself. From water extraction, water distribution, and water transport to utilization, water purification, and wastewater treatment, to flood protection – all water applications have one thing in common:

The sealing technology used and the associated seal management are of critical importance for reliable, safe, and economical operation of technical systems. So it's good that EagleBurgmann has exactly the right sealing solution for every water-related application.



## Industrial production

### **We keep an eye on process security, quality, and costs**

The various manufacturing processes, changing pressure and temperature conditions, special water properties, strict hygiene regulations in food or pharmaceutical production – all of these require special attention when designing the correct sealing technology.

With a unique portfolio of seals ranging from standardized products to individually customized designs, we support operators and OEMs in ensuring that their systems function efficiently, safely, and without unplanned downtime.



## Desalination

### **So that the sustainable water supply functions reliably**

Whether in seawater desalination plants for supplying drinking water to cities and communities or in desalination systems for industrial treatment of service water and process water: EagleBurgmann knows the demanding process conditions encountered in desalination applications and has spent many years serving operators of desalination plants and pump manufacturers with reliable, high-performance sealing technology that has stood the test of time.





## Water management facilities

### So that everything runs reliably

For more than 130 years, we have been a reliable full-service partner for excellent sealing technology in water management thanks to our detailed understanding of the associated challenges. For the continuous supply of clean drinking water, for directing and cleaning waste water, for flood protection and for the productive use of hydropower, many major plant operators and pump manufacturers already rely on our expertise and the exceptional performance, robustness, and longevity of EagleBurgmann sealing technology.



## Baths, thermal pools, theme and water parks

### So that the fun never ends

The many and varied water-related applications in recreational facilities require custom-tailored pump solutions with appropriate sealing technology. Our offering includes elastomer bellows seals, O-ring seals, cartridge seals, and split seals for nearly every application. These products prove themselves every day in the pumps of many reputable OEMs and system operators all over the world. EagleBurgmann pump seals for sanitary systems have the required drinking water approvals as standard.



## Transportation and special real estate

### So that building operation is safe and economical

The mechanical seals in pumps are key components for ensuring the hygienic safety of water supply, water disposal, and in-house water treatment. At EagleBurgmann, pump manufacturers and real estate operators will find the right sealing technology for use in drinking water, hot water, process water, wastewater, salty water, or untreated water. Many of our seals have the required drinking water approvals as standard.

# What product is recommended for a given application? We provide clear answers.

Whether a standard seal or customer-specific design, EagleBurgmann seals are robust, reliable, and easy to assemble – and they win people over with their fair cost-benefit ratio.



## Elastomer bellows seals

	BT-ARP	BT-AR	MG9	eMG	eRMG	BT-FN	BT-RN
<b>Potable water / Clean water</b> - Food grade water - Non-food grade tap water - Temperature range: 0 °C ... +120 °C		●	●	●		●	●
<b>Hot water</b> - Temperature range: +80 °C ... +150 °C			●	●	●		
<b>Process water</b> - Service water for specific manufacturing and industrial applications - Purity levels range from ultra pure to non-food grade tap water - Temperature range: -20 °C ... +110 °C		●	●	●		●	●
<b>Wastewater</b> - Municipal, commercial, industrial - Solids content up to 40 % - Temperature range 0 °C ... +120 °C	●	●	●	●			
<b>Raw water</b> - Untreated surface water, rain water, ground water - Solids content less than 5 % - Temperature range 0 °C ... +80 °C	●	●	●	●			●
<b>Saline water, desalination</b> - Sea water, brackish water, brine - Solids content less than 5 % - Salinity up to 6 %				●			
<b>Drinking water conformity according to UBA (Germany), WRAS (UK)</b>		UBA WRAS		UBA WRAS		UBA WRAS	UBA WRAS
<b>Temperature max.*</b>	90 °C 194 °F	110 °C 230 °F	120 °C 248 °F	120 °C 248 °F	140 °C 284 °F	100 °C 212 °F	110 °C 230 °F
<b>Pressure max.*</b>	6 bar	6 bar	12 bar	18 bar	25 bar	12 bar	10 bar
<b>Diameter mm</b>	20 - 40 mm	6 - 70 mm	10 - 100 mm	14 - 110 mm	14 - 38 mm	10 - 30 mm	30 - 70 mm

\* Note: The temperature specifications apply to the respective applications and to uncooled operation in the seal installation space. Higher operating parameters can be achieved with optionally available special designs and additional equipment.

**Our technical sales support will be happy to advise you. Contact us: [eagleburgmann.com](http://eagleburgmann.com)**





For use in the drinking water sector, EagleBurgmann mechanical seals have the required drinking water approvals (UBA, WRAS) as standard. Other international approvals can be procured on request.



Pusher seals				Cartridge seals			Split seals		
AX40	M7N / M74	eHJ	H7(5)N	Cartex SN	H75VA4	SHV	SP1	HGH	VGH
	●	●		●			●	●	●
	●	●	●	●	●	●			
	●	●	●	●			●		
●		●		●			●	●	●
	●	●	●	●			●	●	●
	●	●	●	●		●		●	●
	UBA WRAS	UBA WRAS		UBA WRAS					
100 °C 212 °F	140 °C 284 °F	140 °C 284 °F	120 °C 248 °F	120 °C 248 °F	140 °C 284 °F	150 °C 302 °F	120 °C 248 °F	120 °C 248 °F	120 °C 248 °F
16 bar	25 bar	40 bar	80 bar	25 bar	45 bar	160 bar	13 bar	30 bar	30 bar
18 - 100 mm	14 - 200 mm	18 - 100 mm	14 - 100 mm	24 - 170 mm	14 - 100 mm	30 - 200 mm	50 - 200 mm	100 - 600 mm	200 - 600 mm

All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications, however, means that they can serve only as guide values. We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. This is subject to change.



### Compression packings and gaskets

	Burasil® Universal 9544/U	9107/KH 9107/KN	Buraflon® 5846	Chemstar® L 6226/L	Buratex® R 4002
<b>Potable water / Clean water</b> - Food grade water - Non-food grade tap water - Temperature range: 0 °C ... +120 °C	●	●	●	●	●
<b>Hot water</b> - Temperature range: +80 °C ... +150 °C	●	FKM/FPM	●	●	
<b>Process water</b> - Service water for specific manufacturing and industrial applications - Purity levels range from ultra pure to non-food grade tap water - Temperature range: -20 °C ... +110 °C	●	●	●	●	
<b>Wastewater</b> - Municipal, commercial, industrial - Solids content up to 40 % - Temperature range 0 °C ... +120 °C	●	●	●	●	
<b>Raw water</b> - Untreated surface water, rain water, ground water - Solids content less than 5 % - Temperature range 0 °C ... +80 °C	●	●	●	●	
<b>Saline water, desalination</b> - Sea water, brackish water, brine - Solids content less than 5 % - Salinity up to 6 %	●	●	●	●	●
<b>Drinking water conformity according to UBA (Germany), WRAS (UK)</b>	WRAS				
<b>Temperature max.*</b>	260 °C 500 °F	120 °C 248 °F	140 °C 284 °F	280 °C 536 °F	100 °C 212 °F
<b>Pressure max.*</b>	120 bar	40 bar	25 bar	500 bar	10 bar
<b>Diameter mm</b>	Acc. DIN EN 1514-1 or ASME B16.21	Acc. DIN EN 1514-1 or ASME B16.21			

\* Note: All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications, however, means that they can serve only as guide values. We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. This is subject to change.



### Expansion Joints

Flexible technology for every application

- Fabric expansion joints
- Metal expansion joints
- Rubber expansion joints



# You can always rely on our assistance. Perfectly tailored to your needs.

Selection of the right seal is the foundation of an effective sealing concept. Proper installation and operation as well as professional maintenance and service are key factors for ensuring a long service life. Sophisticated sealing management helps reduce costs and the amount of training required. As a full-service partner, we offer you excellent technology and support you with custom-tailored service. Our practice-oriented knowledge transfer helps your employees strengthen their skills.



## Engineering and service

Technical systems in industry and water management must function safely, reliably, and with maximum efficiency. So it's good to have a competent and effective partner at your side. With its TotalSeal-Care service, EagleBurgmann offers custom-tailored service programs and flexible service modules for all aspects of sealing technology. The service spectrum ranges from consulting and engineering to diverse maintenance services and even individually crafted service agreements. For EagleBurgmann products as well as products of other manufacturers.



## Seminars and training courses

The operation of seals requires in-depth knowledge about how they work and the materials they are made of. Expand your expertise in the diverse and technically challenging field of sealing technology, and profit from the extensive training offering of the EagleBurgmann Academy – by practitioners for practitioners.



## Plant engineering and special projects

Are you planning a new project or the construction, expansion, or modernization of a plant? Thanks to extensive project experience and outstanding technical expertise, we are your competent project partner for all phases, anywhere in the world.



[Learn more](#)





## EagleBurgmann – at the leading edge of industrial sealing technology

Our products are used wherever safety and reliability count: in the industries of oil & gas, refineries, petrochemicals, chemicals, pharmaceuticals, food, power, water and many more. About 6,000 employees contribute their ideas, solutions and dedication every day to ensure that customers around the globe can rely on our seals. With our modular TotalSealCare Service, we emphasize our strong customer orientation and offer custom-tailored services for every need. [Rely on excellence.](#)

### Wherever you need us

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