


# WATER AND WASTEWATER

INDUSTRY SOLUTIONS



The background of the slide is a photograph of an industrial facility. In the foreground, there are two large, teal-colored electric motors with circular grilles on their ends. Behind them, there are various pipes, valves, and structural elements of the plant, including a large vertical cylindrical tank. The lighting is bright, typical of an industrial interior.

## Understanding today's plant challenges

- Aging Infrastructure
- Energy Consumption
- Cost of Maintenance
- Water Consumption
- Environmental Regulations
- Safety

# Solving Your Challenges with Proven Solutions

*Chesterton is a full-solutions provider for water treatment/wastewater plants and systems that are seeking to increase equipment reliability and longevity.*

## Our Industry-Leading Solutions Include:

- Sealing for pumps, mixers, agitators, and valves
- Wireless monitoring for critical equipment
- Lubricants and MRO products
- Industrial coatings for concrete and metal
- Sealing for hydraulic and pneumatic cylinders



## Expertise and Industry Knowledge

Chesterton's team of in-the-field experts and engineers have been providing innovative solutions for water and wastewater, desalination, and flood control for decades.

## Regulatory Compliance

Many Chesterton® products including mechanical seals, packings, gaskets, industrial coatings, and equipment monitoring devices meet recognized potable water standards such as ACS, WRAS, NSF61, and KIWA, and other country-specific standard certifications.



## Global Solutions, Local Service

In business for over 130 years, Chesterton has sales offices in over 113 countries. We provide experienced, local service to customers ranging from small municipal water treatment facilities to large metropolitan water and sewage plants to desalination plants.

# Managing Aging Plants, Equipment, and Infrastructure

*Today the greatest challenge for many water and wastewater facilities is coping with aging infrastructure. Chesterton is well equipped with solutions for most every application.*

## Achieve More Reliable Sealing of Pumps, Mixers, and Agitators

Chesterton® mechanical seals, rotary seals, and packing products have proven to lower maintenance costs and deliver extended uptime. Many products are specifically designed to extend the life of worn equipment.



## Repair Older Equipment/Structures at a Fraction of Replacement Costs

ARC industrial coatings make it possible to repair older metal and concrete assets effectively thus minimizing downtime and capital expenses. ARC high performance coatings often increase MTBR by multiples. Our experience includes coating equipment and structures ranging from bar screens to screw pumps, from junction boxes to clarifiers.





### BEARING SEALS

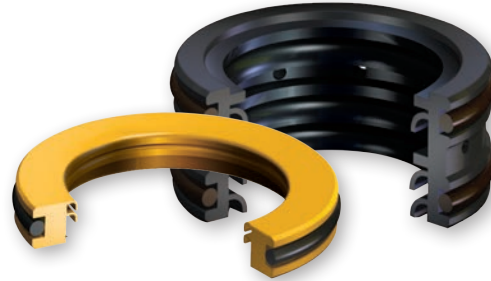
These unique, performance-engineered seals protect pumps, gearboxes, and other rotating equipment in demanding applications.

## Enhance Bearing Reliability

### LUBRICATION

An estimated 64% of bearing failures are caused by insufficient or improper lubrication.\*

Chesterton's high performance lubricants and automatic grease dispensers solve this issue by providing a new level of bearing protection.

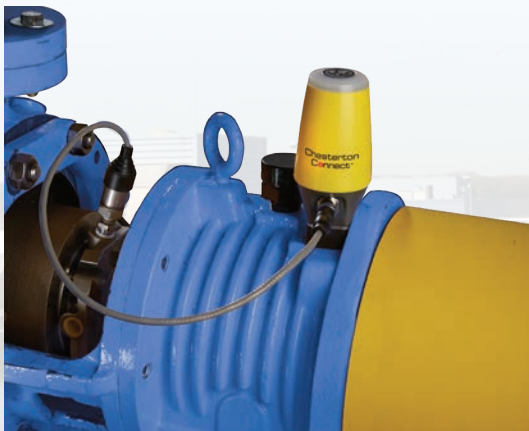


# Personnel Safety is Our Priority

## Mitigate Risk and Injury

Chesterton sealing-related safety improvements include split seals that can be installed without large equipment disassembly and packing options that require fewer adjustments and thus reduce exposure to operating equipment.

Our ARC industrial coatings, with 100% solids formulations, prevent emissions of volatile organic compounds and stop explosive/flammable gas from forming in closed spaces or where poor ventilation exists.



## Safely Monitor Your Critical Equipment

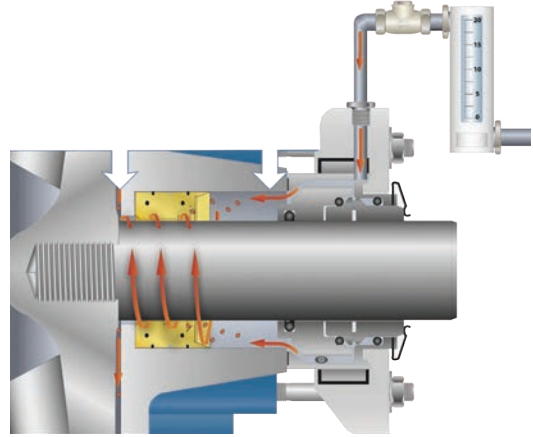
Using wireless monitoring, your team can be alerted to process instabilities and prevent premature equipment failures.

*\*Source: ABMA (American Bearing Manufacturers Association)*

# Lower Energy and Water Use

## Helps to Significantly Reduce Water Use with Innovative Support Technology

Active throat bushing technology removes particles from the pump's stuffing box and away from packing or mechanical seals for longer sealing life. A single SpiralTrac® coupled with a Chesterton sealing device can dramatically reduce, or in some applications, eliminate flush water consumption.



## Reducing Pump Sealing System Energy Demands

Energy consumption is often the dominant life cycle cost of a pump. Seal support systems (such as cooling or flush systems) often waste considerable energy and add unnecessary complexity.

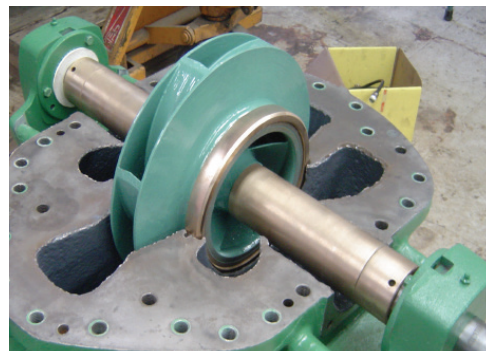
Chesterton's sealing specialists can advise you on pump systems setup and seal support decisions that help to maintain reliability while keeping energy use as low as possible.

## Restore Pump Efficiency

Restoring surfaces and applying the right protective coatings on a worn pump can restore energy gains by 5-20%! ARC industrial coatings applied on new and old pumps help to maximize efficiency.



Before

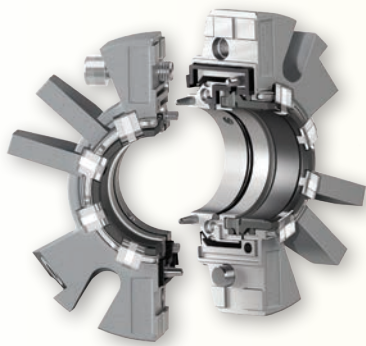


After

# Reduce Maintenance Costs

## Identify Equipment Issues Early to Avoid Failure

Predictive maintenance can generate substantial savings by reducing unnecessary maintenance costs. Chesterton Connect™ sensors monitor your equipment's health 24/7 so your staff doesn't have to. The IIoT sensor securely captures real time process temperature and pressure, surface temperature, and vibration to provide early detection of potential problems. Avoiding a single failure can save hours of labor and downtime.



## Decrease Seal Installation Time Drastically

Chesterton's industry-leading 442 family of split seals allows you to install pump seals without pump disassembly, saving hours of labor and downtime on each pump.

## Reduce Packing Adjustments and Repacking

DualPac® pump packings offer high resiliency which prevents loss of load through consolidation or extrusion. Fewer adjustments help to delay bottoming out and helps increase the life of the packing.



## Increased Uptime with Industrial Lubricants and Cleaners

Chesterton's lubricants, anti-seizes, corrosion inhibitors, and maintenance specialties are best-in-class and designed to withstand severe conditions.

- Many Chesterton greases and oils clean as they lubricate for trouble-free operation.
- Lubri-Cup™ Automatic Grease Dispensers deliver the right amount of high performance grease at exact intervals to maintain equipment effortlessly.





## Global Solutions, Local Service

Since its founding in 1884, the A.W. Chesterton Company has successfully met the critical needs of its diverse customer base. Today, as always, customers count on Chesterton solutions to increase equipment reliability, optimize energy consumption, and provide local technical support and service wherever they are in the world.

Chesterton's global capabilities include:

- Servicing plants in over 113 countries
- Global manufacturing operations
- More than 500 Service Centers and Sales Offices worldwide
- Over 1200 trained local Service Specialists and Technicians

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