

SERVICE AND PERFORMANCE

Unparalleled in Industry

At Chesterton, we place strong emphasis on working together as partners to provide real solutions. Our high service levels are delivered by combining both industry and product knowledge with experience to implement Best Available Techniques. Our wide geographical reach and local service capabilities enable us to be responsive to your needs.

Reliability through Innovation

To be a full-service provider takes a wide array of high-quality, engineered sealing products that address your needs. Innovative, high performance products are the core of Chesterton's offerings as a premier sealing solution provider. Some of our standard offerings are:

- Split Seals
- Cartridge Seals
- Gas Seals
- Component Seals
- Pump Packing
- Bearing and Gearbox Protection
- Rotary Seals
- SpiralTrac™

Improving Productivity with High Impact Programs

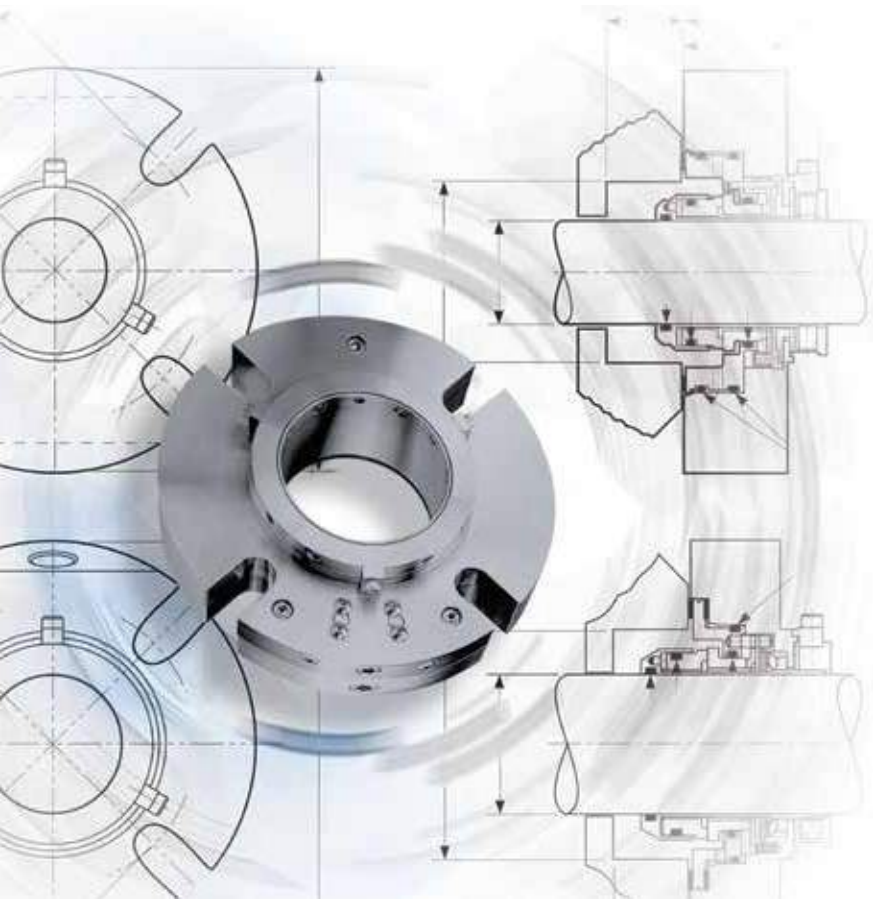
In today's global economy, our clients are faced with increased profitability pressures. Chesterton can assist users in achieving their productivity goals by improving asset reliability and lowering the total cost of ownership. Our programs are easily customized for each plant to:

- Improve equipment availability
- Increase process throughput
- Lower total cost of ownership

Delivering Results for Industry

Meeting industry needs requires a thorough knowledge and understanding of the key drivers specific to a plant. Chesterton's depth of experience allows us to deliver results such as:

- Increased equipment reliability
- Reduced water consumption
- Reduced environmental emissions
- Increased energy efficiency



Pump Packing Application Guide

Please contact your local Chesterton Representative to help you select the best product for your application.










Family	Product	Media					Duty			Key Benefit		
		Water	Steam	Chemicals	Slurries	Food and Beverage	High Temperatures	High Pressures	High Speeds	Reliability	Economy Solution	Emissions
Pump Packing	1730	√++		√+	√++		√+	√++	√	√++	√+	
	1760	√++		√++	√+		√+	√++	√++	√++	√+	
	1765	√++		√++	√		√+	√+	√+	√++	√+	
	1830	√++		√++	√+		√+	√+	√++	√+	√++	
	1830-SSP	√++		√++	√++		√+	√+	√++	√+	√+	
	1935	√++		√+	√	√++	√			√+	√+	
	1400R	√++	√++	√++	√		√++	√+	√++	√++	√+	√+
	2211	√++		√	√++		√+	√+	√+	√+	√++	
Environmental Enhancers	SuperSet™	√		√	√++		√			√++	√	

√++ = Best Choice

√+ = Better Choice

√ = Good Choice

Bearing and Gearbox Protection and Rotary Seal Application Guide

Speed	Types	Product	Profile Series	Description	Attributes			Friction			Wear Resistance		
					mould	**mach	split	Low	Mid	High	Low	Mid	High
Rotary Applications													
to 20 m/s (4 000 ft/min)	Restriction Bushing	14K		Restriction bushing for rotary equipment		•	•	•				•	
	Continuous Rotary Lip Seals	30K		Single-acting, low-pressure seal for bearing and gearbox protection		•			•			•	
Bearing and Gearbox Protection													
to 5 m/s (984 ft/min)	Cartridge Polymer Seal	30KC		Seal for viscous fluids and powders		•			•			•	
to 12,5 m/s (2 500 ft/min)	Split Rotary Lip Seals	33K		Single-acting, non-pressure split seal for bearing and gearbox protection		•	•	•				•	
to 20 m/s (4 000 ft/min)	Continuous Rotary Excluder	50K		Single-acting rotary face excluder	•				•			•	
to 25 m/s (5 000 ft/min)	Continuous/Split Rotary Lip Seal	51K		Single-acting, low-pressure seal for bearing and gearbox protection	•		•		•			•	
	Continuous Rotary Lip Seal	52K		Single-acting, low-pressure seal for bearing and gearbox protection	•				•			•	
to 35 m/s (7 000 ft/min)	Continuous Rotary Lip Seal	53K		Single-acting, low-pressure seal for bearing and gearbox protection	•				•			•	
to 1 m/s (200 ft/min)	Wipers	W21K		Positive-angled profile with flange, slow rotary	•	•	•	•				•	
	Rod and Piston Seals	R22KN5		Single-acting, positive-angled profile, slow rotary	•	•	•			•		•	

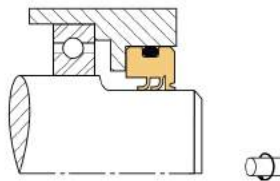
**Machined product does not require tooling.

BEARING AND GEARBOX PROTECTION

30K

Bearing and Gearbox Protection

Advanced sealing protection technology keeps the lubricant in and the dirt out for long-term sealing.



SPECIFICATIONS

Material (combination) (adapters/sealer rings)	Size Range* mm (inch)	Temperature °C (°F)	Speed m/s (ft/min)	Pressure MPa (psi)	Recommended use	Mating surface (Rockwell C)
AWC100 (PTFE) Polyimide	20 to 600 (0,787 to 24)	-20 to 149 (-30 to 300)	Up to 20 (4 000)	0,07 (10)	Excellent dry Excellent low viscosity No water and steam	≥45
AWC300 (PTFE) Molybdenum & glass					Excellent high viscosity Good dry and good in water	≥55
AWC400 (PTFE) Carbon & graphite					Excellent in water Good dry and low viscosity	≥55
AWC510 (PTFE) Mineral (FDA listed)					Excellent dry Good in water and steam No petroleum liquids	≥45

Performance depends on concurrent conditions including shaft hardness, shaft surface roughness, material, lubrication, temperature, and pressure.

PRODUCT PROFILES:

Applicable standards: ISO3760/ISO3761

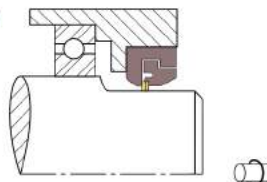


- New designs and materials to outperform conventional lip seals
- High performance PTFE compounds offers advanced wear and abrasion resistance
- Unique design provides lower friction and decreased shaft wear
- High performance lip seals prevent contaminants from entering housing

33K

Split Bearing and Gearbox Protection

Unitized split seal for bearing and gearbox protection.



SPECIFICATIONS

Material (combination) (adapters/sealer rings)	Size Range* mm (inch)	Temperature °C (°F)	Speed m/s (ft/min)	Pressure MPa (psi)	Recommended use	Mating surface (Rockwell C)
AWC800 Adapters (EU)						
AWC100 (PTFE) Polyimide	25 to 610 (1 to 24)	85 (185)	12,7 (2 500)	0,07 (10)	Excellent dry Excellent low viscosity	≥45
AWC300 (PTFE) Molybdenum & glass	25 to 610 (1 to 24)	85 (185)	12,7 (2 500)	0,07 (10)	Excellent high viscosity Good dry and good in water	≥55
AWC400 (PTFE) Carbon & graphite	25 to 610 (1 to 24)	85 (185)	12,7 (2 500)	0,07 (10)	Excellent in water Good dry and low viscosity	≥55
AWC860 Adapters (EU)						
AWC100 (PTFE) Polyimide	25 to 457 (1 to 18)	121 (250)	12,7 (2 500)	0,07 (10)	Excellent dry Excellent low viscosity	≥45
AWC300 (PTFE) Molybdenum & glass	25 to 457 (1 to 18)	121 (250)	12,7 (2 500)	0,07 (10)	Excellent high viscosity Good dry and good in water	≥55
AWC400 (PTFE) Carbon & graphite	25 to 457 (1 to 18)	121 (250)	12,7 (2 500)	0,07 (10)	Excellent in water Good dry and low viscosity	≥55

Performance depends on concurrent conditions including shaft hardness, shaft surface roughness, material, lubrication, temperature, and pressure.

Applicable standards: ISO3760/ISO3761



- Split design eliminates the need for equipment disassembly
- New design and materials proven to outperform conventional lip seals
- Patented design combines high performance PTFE and polymer materials
- Filled PTFE materials provide high wear and abrasion resistance

*Please contact your Chesterton representative for larger sizes.

Standards and approvals available on page 91.

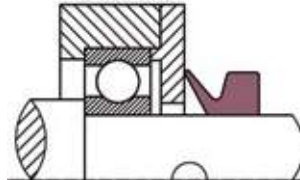
SEALING SOLUTIONS FOR ROTATING EQUIPMENT

ROTARY SEALS

50K

Mill Rotary Face Seal

Designed to protect against ingress of solid particles, dust, and fluids while sealing lubricants in rotary applications.



OPERATIONAL CONDITIONS

Material	NBR70	FKM 70
Lubricating greases	-20°C/100°C (-4°F/212°F)	-20°C/150°C (-4°F/302°F)
Water	5°C/100°C (41°F/212°F)	5°C/80°C (41°F/176°F)
Surface speed m/s (ft/min)	12 m/sec (2 362 ft/min)*	20 m/sec* (3 937 ft/min)
Technical pressure Mpa (psi)	0,03 (4,35)	0,03 (4,35)
Size range mm (inch)** shaft dia	200 to 1 650 (8 to 65)	200 to 1 650 (8 to 65)

* At over 8 m/s (1574 ft/min) the seal has to be supported in axial direction while over 12 m/s radial (2362 ft/min) retention is needed.

** Please contact your Chesterton representative for other sizes.

PRODUCT PROFILES:



- High performance elastomer materials
- Long elastic memory and good resistance to aging
- Optimized lip interference with low friction
- Direct retrofit, no equipment modifications required

51K

Mill Rotary Seal

Designed to provide long-lasting sealing and superior protection for rotary applications, bearing houses, and gearboxes across the heavy industries.

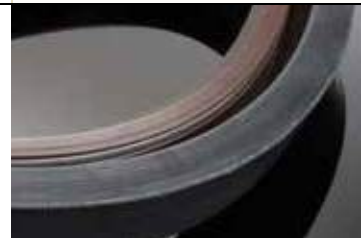
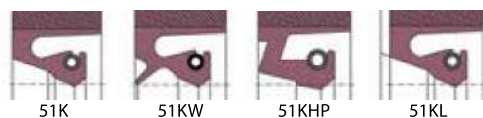


OPERATIONAL CONDITIONS

Elastomers	NBR80+PTFE	HNBR 70	FKM70+PTFE
OD Fabric	Textile +NBR	Textile + HNBR	Textile + FKM
Materials of garter spring	AISI 302-316	AISI 302-316	AISI 302-316
Lubricating greases	-20°C/100°C (-4°F/212°F)	-30°C/150°C (-22°F/302°F)	-20°C/200°C (-4°F/392°F)
Mineral oils	-20°C/100°C (-4°F/212°F)	-30°C/150°C (-22°F/302°F)	-20°C/200°C (-4°F/392°F)
Water	5°C/100°C (41°F/212°F)	5°C/150°C (41°F/302°F)	5°C/100°C (41°F/212°F)
Surface speed m/s (ft/min)	15 (2 952 ft/min)	20 (3 937 ft/min)	25 (4 921 ft/min)
Technical pressure Mpa (psi) 51K, 51KW, 51KL Solid	0,05 (7,25)	0,05 (7,25)	0,05 (7,25)
Technical pressure Mpa (psi) 51K, 51KW, 51KL Split	No pressure can be applied	No pressure can be applied	No pressure can be applied
Technical pressure Mpa (psi) 51HP Solid	0,4 (58)	0,4 (58)	0,4 (58)
Size range mm (inch)** Seal OD	300 to 1 200 (12 to 47)	300 to 1 200 (12 to 47)	300 to 1 200 (12 to 47)

** Please contact your Chesterton representative for other sizes.

PRODUCT PROFILES:



- High resistance to wear
- Specially designed seal lips combined with autolubricated elastomer to reduce friction
- Solid and split versions are available
- Direct retrofit, no equipment modifications required

Standards and approvals available on page 91.

52K

Mill Rotary Seal

Designed to provide long-lasting sealing and superior protection for rotary applications, bearing houses, and gearboxes across the heavy industries. The unique design with flexible stiffener ring ensures improved fitting in the seal cavity and allows installation in stuffing boxes without end covers.



OPERATIONAL CONDITIONS

Elastomers	NBR80+PTFE	FKM70+PTFE
Material of metal case	C72 tempered	C72 tempered
Materials of garter spring*	AISI 302-316	AISI 302-316
Lubricating greases	-30°C/100°C (-22°F/212°F)	-20°C/200°C (-4°F/392°F)
Mineral oils	-30°C/100°C (-22°F/212°F)	-20°C/200°C (-4°F/392°F)
Water	5°C/100°C (41°F/212°F)	5°C/100°C (41°F/212°F)
Surface speed m/s (ft/min)	15 (2 952)	25 (2 952)
Technical pressure Mpa (psi)	0,05 (7,25)	0,05 (7,25)
Size range mm (inch)** Seal OD	300 to 1 200 (12 to 47)	300 to 1 200 (12 to 47)

- Unique lip design
- Specially designed seal lips combined with auto-lubricated compound to reduce friction
- Metallic flexible stiffening ring is used to allow mounting without end cover
- Direct retrofit, no equipment modifications required

PRODUCT PROFILES:



* On request PVC cover to avoid dust entering garter spring
 ** Please contact your Chesterton representative for other sizes.

53K

Mill Rotary Seal

Designed to provide long-lasting sealing and protective solutions that withstand high speeds and misalignment of large rolls in heavy industries.



OPERATIONAL CONDITIONS

Elastomers	NBR70+PTFE	FKM 70+PTFE
Material of metal case	Fe-PO3	Fe-PO3
Material of steel filler ring	Fe37	Fe37
Material of spring carrier	AISI 301	AISI 301
Materials of garter spring	AISI 316	AISI 316
Lubricating greases	-20°C/100°C (-4°F/212°F)	-20°C/200°C (-4°F/392°F)
Mineral oils	-20°C/100°C (-4°F/212°F)	-20°C/200°C (-4°F/392°F)
Surface speed m/s (ft/min)	25 (4 921)	25 to 35 (4 921 to 6 889)
Technical pressure Mpa (psi) 53K, 53KW, 53KL, 53KHS 53KLPT	0,05 (7,25)	0,05 (7,25)
Technical pressure Mpa (psi) 53KHP	0,1 (14,5)	0,1 (14,5)
Size range mm (inch)** Seal OD	300 to 1 200 (12 to 47)	300 to 1 200 (12 to 47)

- Unique lip preloaded system with highly elastic garter-finger spring
- Specially designed seal lips combined with auto-lubricated compound to reduce friction
- Large shaft run-out compensation capability
- Maintains lube oil film underneath the lip for longer seal life

** Please contact your Chesterton representative for other sizes.

PRODUCT PROFILES:

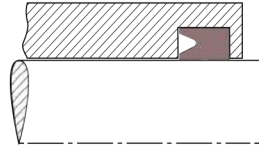


Standards and approvals available on page 91.

R22KN5

Split Rotary Seal

High performance, proven design for slow rotating applications exposed to large shaft run-out.



SPECIFICATIONS

Material (designation)	Size Range* mm (inch)	Temperature °C (°F)	Pressure MPa (psi)	Speed m/s (ft/min)
AWC700 (FKM)	6 to 152 (1/4 to 6)	-30 to 200 (-20 to 400)	34,5 (5 000)	1,5 (300)
AWC800 (EU)	6 to 1 400 (1/4 to 55)	-50 to 85 (-60 to 185)	103,5 (15 000)	1 (200)
AWC830 (EU)	6 to 254 (1/4 to 10)	-35 to 75 (-30 to 165)	52,0 (7 500)	0,9 (185)
AWC850 (EU)	6 to 254 (1/4 to 10)	-50 to 104 (-60 to 220)	103,5 (15 000)	0,9 (185)
AWC860 (EU)	6 to 508 (1/4 to 20)	-50 to 120 (-60 to 250)	103,5 (15 000)	1,25 (250)

PRODUCT PROFILE:



R22KN5

Pending on the seal height and cross section, the split joint can be interlock arrow cut or but cut.

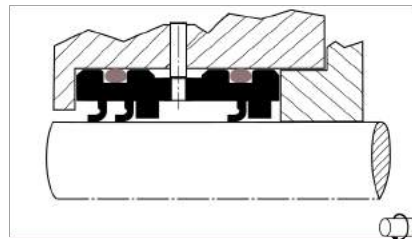
*Please contact your Chesterton representative for larger sizes.

- Flexible dynamic lip design for large shaft run-out compensation
- Split configuration simplifies installation
- Robust static lip design allows stack set arrangement and provides stability
- Excellent abrasion-resistance, withstands demanding environments

30KC

Seal for Viscous Fluids and Powders

High performance, proven cartridge design for sealing powders and viscous fluids.



SPECIFICATIONS

Material** (combination) (adapters/sealer rings)	Shaft Size* mm (inch)	Temperature °C (°F)	Speed m/s (ft/min)	Pressure MPa (psi)	Mating surface (Rockwell C)	Surface finish µm Ra (µ inch)	Recommended use***
AWC100 (PTFE) Polyimide	25 to 200 (1 to 8)	-20 to 150 (-30 to 300)	Up to 5 (984)	to 1 (150)	45	Dynamic 0,2 to 0,4 (8 to 16) Static 0,4 to 0,8 (16 to 32)	Excellent dry Excellent low viscosity (<2 000 cp) Powders, oil, resins, glues, paints No water or steam
AWC300 (PTFE) Molybdenum & glass							Excellent high viscosity (>2 000 cp) Good in dry, water, or steam
AWC400 (PTFE) Carbon & graphite							Excellent in water or steam Good dry and low viscosity Powders, asphalt, clay, slurries
AWC510 Mineral (FDA listed)							Excellent dry Good in water or steam Chocolate and syrups No petroleum liquids

- Outperforms conventional packing, sealing viscosity fluids, and dry powders
- Decreases downtime, easy-to-install, versatile cartridge design
- Improves performance of compression packing, distinct PTFE materials
- Custom-designed cartridges made to equipment dimensions

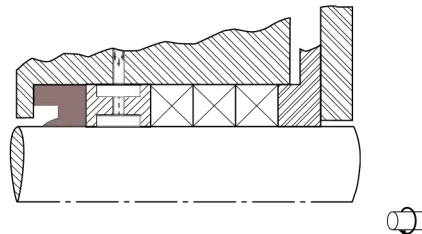
* Please contact your Chesterton representative for larger sizes
 ** Fluoroelastomer O-Rings provided (FDA listed with AWC510)
 *** Runout to 0,15 mm (0,05")

Standards and approvals available on page 91.

14K

Restriction Bushing

A robust restriction bushing for rotating equipment.



SPECIFICATIONS

Material (designation)	Size Range mm (inch)	Temperature °C (°F)	pH range
AWC520 (PTFE)	25 to 600 (1 to 24)	Up to 200 (400)	0 to 14
AWC800 (EU)	25 to 1 400 (1 to 55)	Up to 100 (185)	4 to 10

Applicable standards: ISO 3069

PRODUCT PROFILES:



R14K



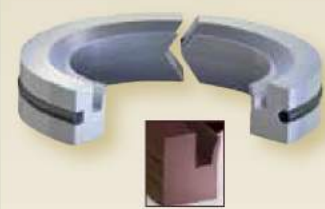
R14KRB2P



R14KRBS



R14KPF



- Split design simplifies installation
- Prevents particles from entering the stuffing box, extending packing and seal life
- Tapered lip design controls fluid bypass
- Designed for pumps and other rotating equipment such as agitators, mixers, and refiners

Ancillary Products



800 GoldEnd® Tape

Heavy-duty, high-density PTFE sealing tape. Go to page 64.



785 & 785 FG

High performance, extreme pressure anti-seize compound. Go to page 62.



860 Moldable Polymer Gasketing

Two-part extrudable gasket material for flange and thread sealing. Go to page 64.



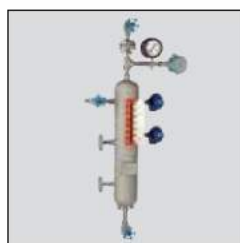
615 HTG

High performance grease for extreme operating conditions. Go to page 60.



Lubricant Dispensers

Automatic lubricant dispensers that apply Chesterton greases and oils. Go to page 61.



662FG Barrier Fluid

This is an ISO grade 22, high performance lubricant designed specifically as a barrier fluid for mechanical seal applications. Go to www.chesterton.com.

Standards and approvals available on page 91.

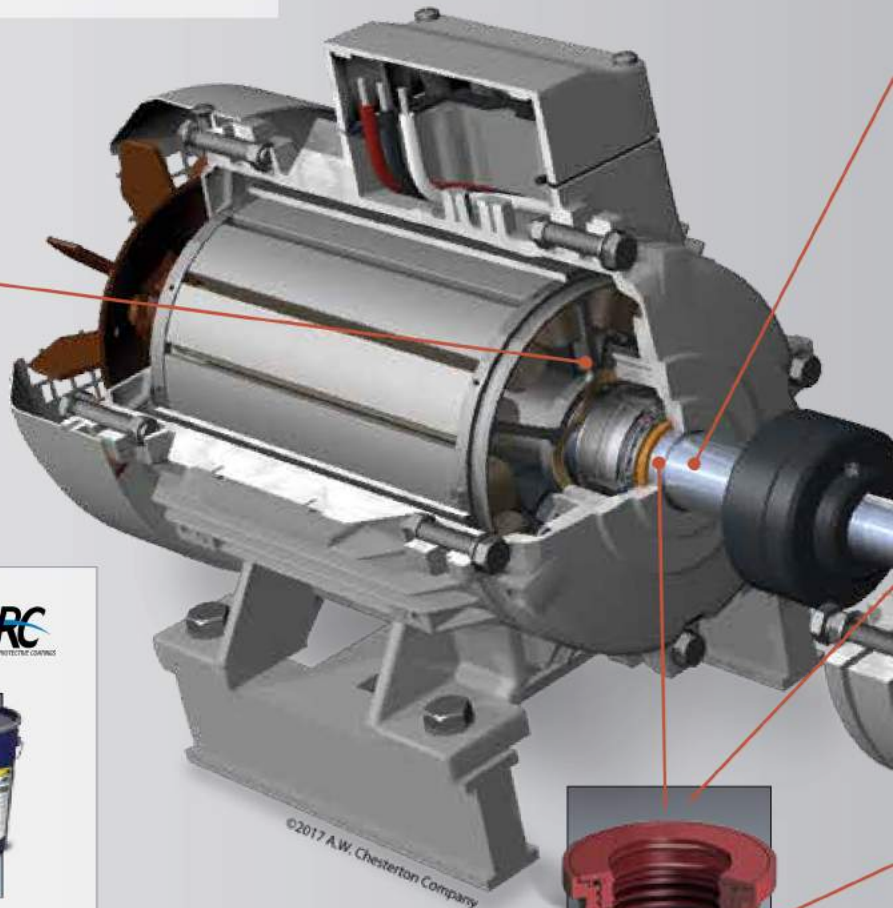
Sealing Solutions for Rotating

Whether advanced shaft sealing, gearbox protection or protective coatings, Chesterton provides the total solution for improved pump reliability.



Advanced Lubrication Technology

Chesterton's QBT™ technology: extends bearing life; resists wear, load, and corrosion.



Polymer Labyrinth Seal
Labyrinth seal for pumps, motors, and gearboxes

Other ARC Efficiency & Protective Coatings Products



Machinable Composite
Rebuild and protect worn shafts



Protective Coating for Concrete & Metals
Protect pump base plate, frame, and pump base

Other Maintenance and Repair Products



Cold Galvanizing Compound
Micronized particles of pure zinc protect against galvanic corrosion. Use on bolting, weld seams, and supports.



Anti-seize
Prevent rust and seizure bolts and prevent fretting and corrosion while securing bearings.



Thread Sealing
High performance PTFE tapes and paste.



Gasketing
Make any size gasket with Moldable Polymer Gasketing.

Equipment



Automatic Microprocessor Controlled Dispensing System
Delivers precise volumes of lubricant; simple to use and install

Bearing Protection
Protect the bearing housing with a high-performance bearing seal



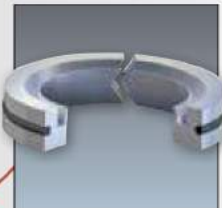
Split Seals
Superior performance with easy installation



Cartridge Seals
Upgrade seal performance with Single Cassette Seals or S20 Dual



Pump Packing
Reduce maintenance costs and sleeve wear



Restriction Bushings
Protect the stuffing box and reduce the flush rate



Stuffing Box Sealing
High-reliability stuffing box sealing solutions for high-viscosity fluids and powders



Protective Coatings for Metals
Rebuild, restore, and coat impeller vanes and volute



Environmental Controls
Eliminate abrasive particles in the stuffing box and extend seal and packing life



SuperSet™
Upgrade to the enhanced packing system to extend equipment life

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