

SPEEDSEAL™ QUICK RESPONSE CENTERS

MADE-TO-ORDER POLYMER SEALING SOLUTIONS





SpeedSeal™ Centers are Fast and Flexible

- Trusted, quality products
- Superior materials
- Proven designs
- On-site consulting
- Made-to-order product
- Same day delivery

SpeedSeal Quick Response Center

SPEED OF SERVICE, ADVANCED MATERIALS, AND INNOVATIVE DESIGNS

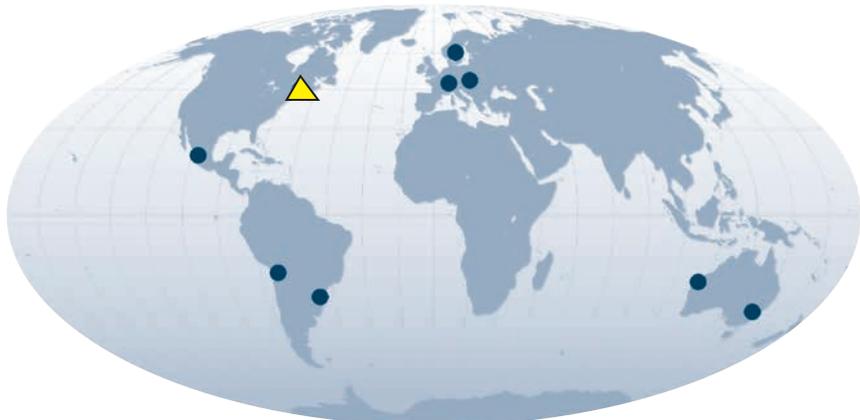
For decades, Chesterton® has been the manufacturer of choice for polymer sealing solutions. SpeedSeal Quick Response Centers improve service to customers around the globe offering the same high performance polymer seals for hydraulic and pneumatic cylinders with efficient, same-day turnaround. Strategically located, our integrated service centers use innovative manufacturing methods to provide you with a broad selection of proven designs and a wide range of high performance materials. The SpeedSeal Centers are backed by a network of skilled Field Specialists who offer the best service available in the industry.



Dedicated Service Centers Around the World

SpeedSeal service centers are fully-integrated manufacturing facilities that rely on advanced equipment, flexible tooling, and semi-finished material to provide you with a broad selection of product offerings—with same day service!

- Skilled field specialists
- Experienced engineering support
- Dedicated customer service assistance



Virtually Any Design, Any Material, And Any Size

INDUSTRY LEADING PRODUCTS

Chesterton has been providing value-driven solutions to meet industry needs for years. We leverage our engineering experience in design and materials to develop polymer seals that solve today's most difficult sealing challenges. Increasing equipment reliability, optimizing energy consumption, and providing local technical support and service are what Chesterton offers industry worldwide.



Materials and Innovation

We use state-of-the-art, polymer technologies that have been proven in the most demanding industrial applications around the world. Our proprietary blends of materials are coupled with various seal geometries to offer superior products. Our technical expertise, combined with our comprehensive range of sizes, designs, and materials, enable us to provide polymer solutions to meet your specific needs. Let us help you select the right material for your application.

- Fluoroplastics
- Elastomers
- Engineered plastics



Design and Expertise

Chesterton is a consistent innovator, bringing significant new technologies to market that set the standard for performance and innovation. This advanced technology allows us the flexibility to design and manufacture seals with virtually no size restrictions. Our engineers draw on years of experience to design value-added products with a focus on continuously improving equipment reliability. Our seal designs are developed to deliver a preferred value based on your needs.



- Temperatures: -150°C – 260°C (-238°F – 500°F)
- Pressures: vacuum (10^{-9} Torr) to 2000 bar g (30000 psi)
- Speeds: up to 30 m/sec (6000 ft/min)
- Sizes: up to 2500 mm (100 inch)



Custom Designs

If the application demands a non-standard product, we can tailor a customized solution. Chesterton's unique on-demand service concept allows us to manufacture seals without tooling costs or delays.

- Application-specific solutions
- Product concept through development
- Designs to meet performance requirements
- Engineer-to-engineer collaboration

Product Selection Guide

Polymer Seals Products

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

	Types	Speed	Product	Profile Series	Description	Attributes					Friction			Wear Resistance		
						Mold	*Mach.	Hyd.	Pne.	Split	Low	Mid	High	Low	Mid	High
Reciprocating Motion	Cap Seals (Rod and Piston)	to 15 m/s (3000 ft/min)	RCCS		Double acting, dual component seal		●	●	●		●				●	
			PCCS		Double acting, dual component seal		●	●	●		●					●
	Wipers		WCCS		Positive angled profile with flange		●	●	●	●	●					●
			W21K		Positive angled profile with flange		●	●	●		●					●
	Rod Seals, U-Cups		R22KN		Single acting, positive angled profile		●	●	●		●					●
			R22K		Single acting, radiused sealing surface for hydraulic applications		●		●		●		●		●	
			R23K		Single acting, radiused sealing surface for pneumatic applications		●		●		●			●		
			R27K		Single acting, positive angled profile, multiple stacked set		●	●	●	●		●			●	
	Rod Seals, Stacked Sets		R11K		Single acting, negative angled profile, dual stacked set	●	●	●		●					●	
			P22KN		Single acting, positive angled profile			●	●		●					●
	Piston Seals, U-Cups		P22K		Single acting, radiused sealing surface for hydraulic applications		●		●		●				●	
			P23K		Single acting, radiused sealing surface for hydraulic applications		●		●		●				●	
			P27K		Single acting, positive angled profile, multiple stacked set		●	●		●		●				●
	Replaceable Bearings		16K, 17K, 18K, 19K		Metric and imperial English size bearing band and strips	●		●	●	●	●					●
			WR		Custom bearing bands		●	●	●	●	●					●
	Anti-Extrusion Rings		9K		Backup rings or anti-extrusion rings		●	●	●	●	●					●
	Compression Seals (Rod and Piston)	to 0.75 m/s (150 ft/min)	R20K™		Double acting, negative angled profile, low speed hydraulic applications		●	●					●		●	
			P20K™		Double acting, negative angled profile, low speed hydraulic applications		●	●						●		●
	Cantilever Spring Energized	to 5 m/s (1000 ft/min)	100 Series		Single acting with cantilever spring for highly dynamic applications		●	●	●		●					●
	Elliptical Coil Spring Energized	to 6 m/s (1200 ft/min)	200 Series		Single acting with elliptical spring for large tolerances or miniature designs		●	●	●		●					●
Helical Wound Spring Energized	to 2.5 m/s (500 ft/min)	300 Series		Single acting with helical spring for static or slow speeds		●	●	●		●					●	
Stacked Set		500 Series		Single acting, stacked sets		●									●	
Static	Valve Seals		M20K-OR		Static seal for O-Ring upgrades in hydraulic valves		●	●			●			●		

Ratings on this chart are for reference only. Values may be higher or lower depending upon the application details such as surface finish, hardness, lubrication, and concentricity. Jacket/Spring combinations will also affect these values.

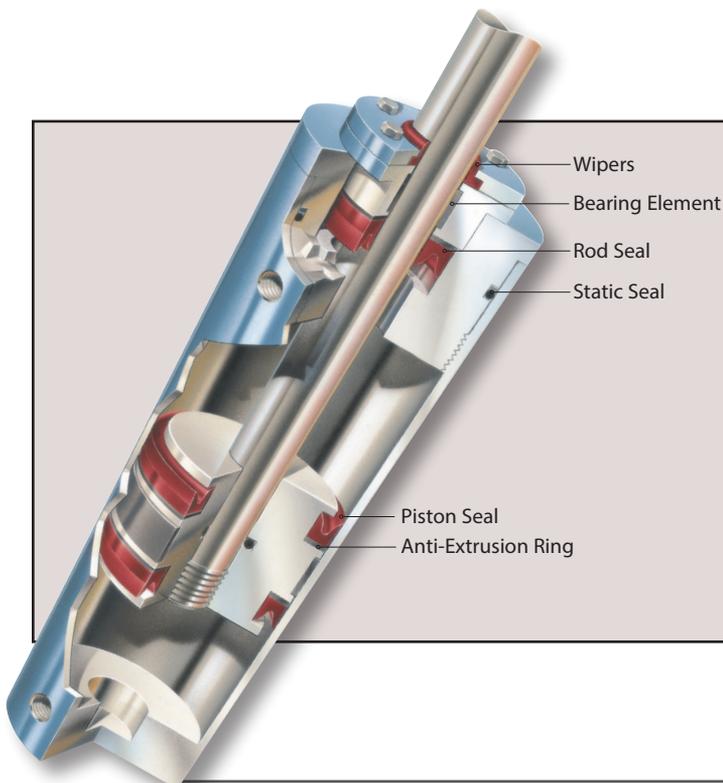
*Machined product does not require tooling.

Polymer Seals Products

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

	Types	Speed	Product Series	Profile	Description	Attributes					Friction			Wear Resistance		
						Mold	*Mach.	Bearing Protect.	Stuffing Box	Split	Low	Mid	High	Low	Mid	High
Rotary Motion	Continuous Rotary Lip Seals	to 20 m/s (4000 ft/min)	30K		Single acting, low pressure seal for bearing & gearbox protection		●	●			●					●
	Split Rotary Lip Seals	to 12.5 m/s (2500 ft/min)	33K		Single acting, non-pressure split seal for bearing & gearbox protection		●	●		●	●				●	
	Elliptical Coil Spring Energized	to 6 m/s (1200 ft/min)	200 Series		Single acting with elliptical spring for large tolerances or miniature designs		●	●	●			●				●
	Cantilever Coil Spring Energized	to 5 m/s (1000 ft/min)	100 Series		Single acting with cantilever spring for highly dynamic applications		●	●	●			●				●
	Helical Coil Spring Energized	to 2.5 m/s (500 ft/min)	300 Series		Single acting with helical spring for static or slow speeds		●	●	●				●			●
	Stacked Sets		500 Series		Single acting, stacked sets		●					●				●
	Wipers	to 0.5 m/s (100 ft/min)	W21K		Positive angled profile with flange, slow rotary	●	●	●		●		●			●	
	Rod & Piston Seals		R22KN, P22KN		Single acting, positive angled profile, slow rotary	●	●	●	●	●		●			●	
	Cartridge Seal	5 m/s (984 ft/min)	30KC		Polymer cartridge with inboard, outboard sealing elements and built-in flushing port		●		●							●
	Restriction Bushing	–	14K		Split, single acting with tapered lip seal		●		●	●						●
	Labyrinth Seal	30.5 m/s (6000 ft/min)	PLS		Polymer contactless labyrinth seal		●	●			●					●

Ratings on this chart are for reference only. Values may be higher or lower depending upon the application details such as surface finish, hardness, lubrication, and concentricity. Jacket/Spring combinations will also affect these values.
 *Machined product does not require tooling.



Sealing Technology

Chesterton applies a simplistic, systematic approach to improving seal performance during the repair and overhaul of equipment. This includes seals, bearing bands, and custom kits for cylinders or presses used in light, medium, or heavy duty fluid power applications.



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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

Visit our website at
chesterton.com



Chesterton ISO certificates available on
chesterton.com/corporate/iso

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