

Additional Colonial Seal Products & Services

Rotary Shaft Seals

- ▣ Metric sizes from 5mm - 1,400mm OD
- ▣ Inch sizes from 0.50" - 98.75" OD
- ▣ Low tooling charges
- ▣ ISO Certified Manufacturing
- ▣ FDA and UL

Hydraulic Seals

- ▣ Manufacturer of U-Cups, Rod and Piston Seals
- ▣ Wipers, Wear Bands, Guide Rings, and Back-up Rings

Mechanical Seals

- ▣ Replacement seals and parts for John Crane Durametalllic, Flowserve, Burgmann & others

Other Products

- ▣ V-Seals, Bonded Rubber Seals, Valve Stem Seals, O-rings, Rubber Molded Parts & Bushings

Services

- ▣ Seal Design
- ▣ Prototyping
- ▣ Testing
- ▣ Failure Analysis
- ▣ Application Consulting

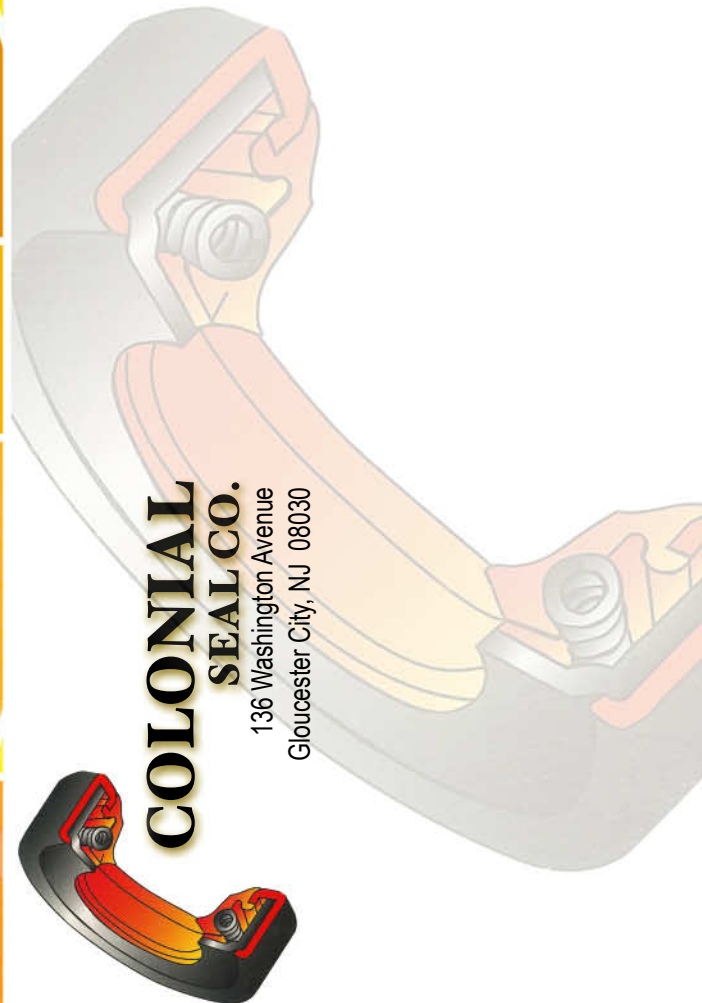
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www.colonialseal.com



**COLONIAL
SEAL CO.**

136 Washington Avenue
Gloucester City, NJ 08030



COLONIAL SEAL

Custom Metal-Cased Shaft Seals



ISO 9002 Certified

24-48 Hour Manufacturing

NBR, FKM, VMQ, ACM, HNBR,
XNBR, EPDM, PTFE, FFKM,
FELT and LEATHER

Pressures to 25 BAR

Sizes from
30mm to 1737mm
& 1.2" to 68" OD



800-564-2201

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Seal Types

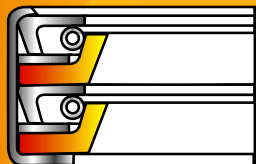


STANDARD Single, spring-loaded lip. This is the most common design used when primary function is either exclusion or retention.

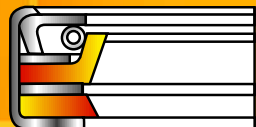


D5 From time to time arduous conditions require a special dual seal which will allow grease to be administered to the center cavity after the seal is installed, thereby cleaning the wiping lips of extraneous matter.

D1 Two sealing members with opposed lips. Used when positive sealing is required from two directions or when necessary to seal/separate fluids.



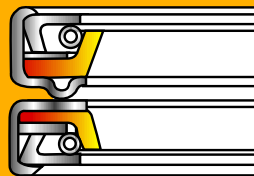
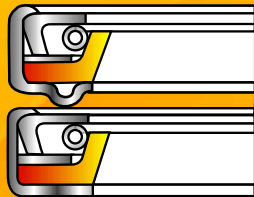
D2 Dual elements used in a single purpose, severe duty environment as an excluder or for fluid/lubricant retention.



D3 Spring-loaded primary sealing lip with a springless secondary dust lip at the back of the seal. The dust lip prevents dirt, etc. from damaging the main element.



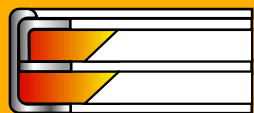
D4 A further variation of dual sealing. Here the spring loaded element is preceded by a dust lip.



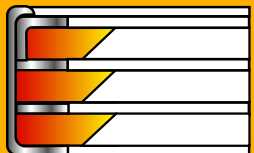
D6 Two seals fitted back to back, one with indentations, which again allows the easy passage of lubricant administered through a grease nipple.



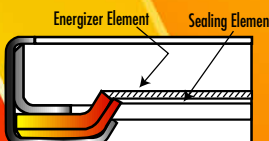
G1 Where both axial and radial dimensions are restricted we offer a springless seal.



G2 Limited space requiring dual sealing poses a problem which is overcome by our G2 type.



G3 A triple lipped springless seal is ideal for grease and thick oils.



SAFEGARD Sealing lip is energized without the use of metal springs. Used when space is limited and use of a loose garter spring could result in component damage.

Additional Seal Types

PTFE HIGH PRESSURE

- Pressure seal to 25 bar (375 psi)
- Replaces Pioneer Weston R60, Garlock PS and Elring styles
- Excellent for extreme temperatures, high pressures and speeds, corrosive liquids and gases
- Ability to run in dry conditions.
- Applications include pumps, agitators, blowers, rotating compressors, mixers, etc.
- PTFE seals also available in multi-lip designs
- Sizes from 30 to 530mm OD

LEAF SPRING RETAINER

- Nitrile • PTFE • Silicone • Viton
- Pressures to 10 bar (150 psi)
- Replaces Garlock 64 and Gaco SMK Styles
- Excellent for high shaft misalignment conditions
- Heavy Duty Applications include rolling mills, paper mills, etc.
- Sizes from 150 to 1727mm OD

SAFEGARD

- Suitable replacement for the open backed and fully metal enclosed (metal clad) seal
- Cost effective replacement for heavy duty, larger diameter seals, including finger spring designs
- Outperforms standard seals when misalignment and dynamic runout is experienced
- Lugs and pressure designs available
- Sizes from 152 to 1737 mm OD and 12.7 to 35 mm width

EXTERNAL

- Leather • Nitrile • PTFE • Silicone • Viton
- For applications where housing is rotational
- Pressures to 3 bar (45 psi)
- Sizes from 50 to 1727mm OD

Seal Materials

NITRILE

- General, all-purpose material, excellent for most mineral oils and greases
- Speeds to 18 m/s
- Temperature range -40° to +120°C

FLUOROCARBON

- Excellent for high temperature applications
- Speeds to 35 m/s
- Resistant to most of the special lubricants and chemicals that destroy nitrile, polyacrylates, or silicones
- Superior performance and wear in heat and harsh environments
- Temperature range -40° to +200°C

SILICONE

- Excellent for low temperature capabilities
- Speeds to 35 m/s
- Not to be used in dry running conditions
- Temperature range -50° to +170°C

LEATHER

- Normal usage for oils and grease
- Also used for intermittent dry running conditions
- Speeds to 15 m/s
- Applications include retrofit, worn and poor shaft conditions
- Temperature range -40° to +100° C

PTFE

- Excellent for wide temperature range from -85° to +235°C
- Speeds to 45 m/s
- Runs in dry conditions – very low friction coefficient
- Outstanding resistance to chemicals

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