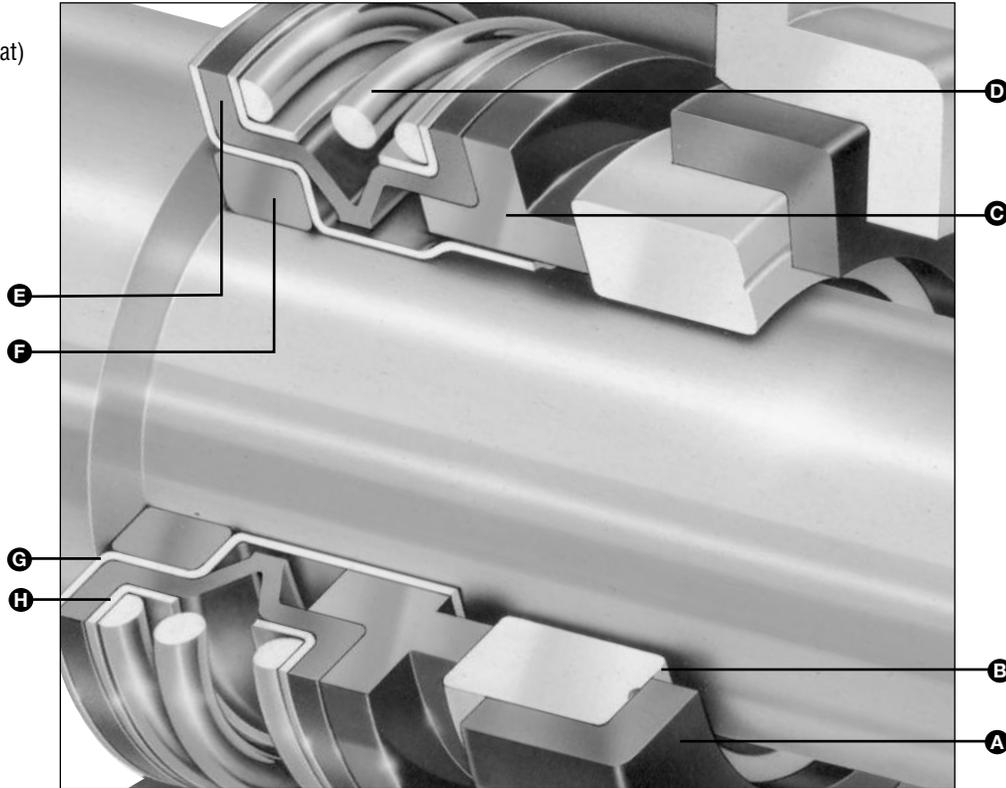


- A – Seat Cup
- B – Mating Ring (Seat)
- C – Primary Ring
- D – Spring
- E – Bellows
- F – Drive Ring
- G – Drive Sleeve
- H – Ferrules



Product Description

The Type 6 is a compact, unitized, single spring, elastomer bellows mechanical seal. Type 6 Seals are designed for use in small centrifugal water pumps, deep and shallow well jet pumps, swimming pool pumps and wastewater pumps.

Performance Capabilities

- Temperature: -45°C to 205°C/-49°F to 400°F
- Pressure: ID: 7.20 psi/0.5 bar OD: up to 75 psig/5 bar g
- Speed: up to 1000 fpm/5m/s / up to 3600 rpm

Design Features

- One piece design enhances production line installation and allows for ease of replacement
- Precision surface finish optimizes the service life and reliability. Materials designed to meet the broadest range of applications
- Elastomer drive ring is pre-loaded to provide positive drive and tight seal along the shaft
- Full convolution elastomer bellows provides maximum flexibility in compensating for shaft movement and wear
- Coil spring and ferrules provide consistent face loading through extreme working conditions

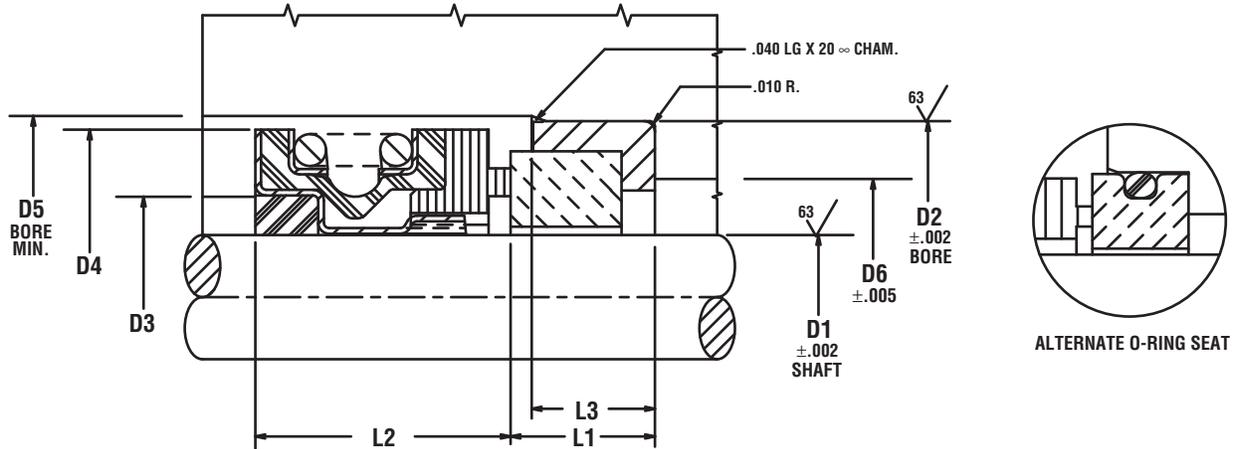
Industries Served

- Pool and spa
- Industrial, commercial and residential water systems
- Heating and cooling

TYPE 6

ELASTOMER BELLOWS SEAL

Type 6 Typical Arrangement



Type 6 Dimensional Data (inches)

Seal Size/D1

| (inches) | D2 | D3 | D4 | D5 | D6 | L1 | L2 | L3 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.375 | 1.000 | 0.812 | 1.062 | 1.312 | 0.750 | 0.312 | 0.656 | 0.250 |
| 0.437 | 1.000 | 0.812 | 1.062 | 1.312 | 0.750 | 0.312 | 0.656 | 0.250 |
| 0.500 | 1.000 | 0.812 | 1.062 | 1.312 | 0.750 | 0.312 | 0.656 | 0.250 |
| 0.562 | 1.250 | 0.937 | 1.218 | 1.500 | 0.937 | 0.406 | 0.718 | 0.343 |
| 0.625 | 1.250 | 0.937 | 1.218 | 1.500 | 0.937 | 0.406 | 0.718 | 0.343 |
| 0.687 | 1.375 | 1.062 | 1.343 | 1.625 | 1.062 | 0.406 | 0.718 | 0.343 |
| 0.750 | 1.375 | 1.062 | 1.343 | 1.625 | 1.062 | 0.406 | 0.718 | 0.343 |
| 0.875 | 1.625 | 1.312 | 1.687 | 2.000 | 1.312 | 0.437 | 0.812 | 0.375 |
| 1.000 | 1.625 | 1.312 | 1.687 | 2.000 | 1.312 | 0.437 | 0.812 | 0.375 |

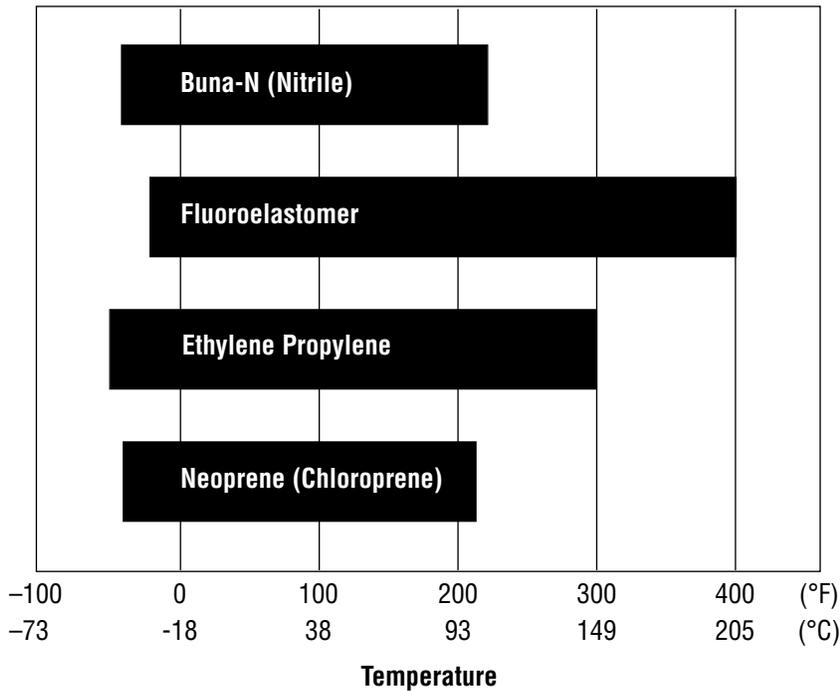
TYPE 6

ELASTOMER BELLOWS SEAL

Criteria for Installation

| Shaft/Sleeve | Limits |
|------------------|-----------------|
| Surface Finish | 32 to 63 Ra |
| Out of Roundness | 0.051mm/.002" |
| Axial End Play | ± 0.13mm/0.005" |

Elastomer Temperature Limits

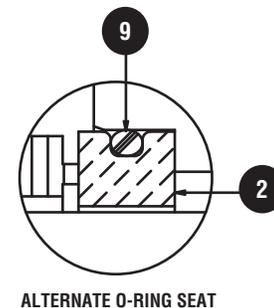
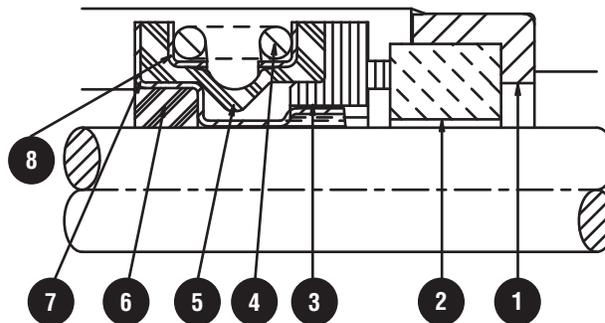


Materials of Construction

| SEAL COMPONENTS | MATERIALS |
|--|--|
| Primary Ring (Washer) | Cranecarb (Phenolic Carbon Graphite) Carbon |
| Mating Ring (Seat) | Ceramic Silicon Carbide Niresist |
| Hardware | Stainless Steel |
| Secondary Seals (Bellows, Drive Ring, Seat Cup, O-ring) | Buna-N (Nitrile) Neoprene® (Chloroprene) Ethylene Propylene Fluoroelastomer |
| Spring | Stainless Steel |

Neoprene is a registered trademark of DuPont.

- 1 – Seat Cup
- 2 – Mating Ring (Seat)
- 3 – Primary Ring
- 4 – Spring
- 5 – Bellows
- 6 – Drive Ring
- 7 – Drive Sleeve
- 8 – Ferrules
- 9 – O-ring



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