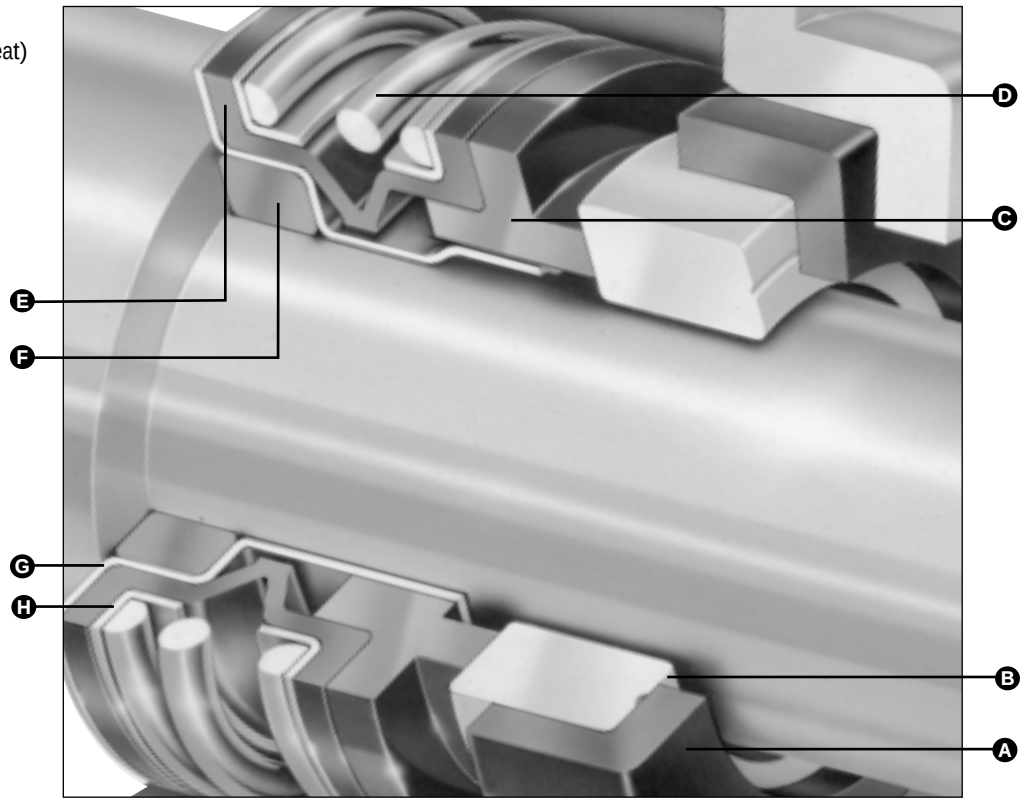
TYPE 6

Elastomer Bellows Seal

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.

Design Features

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

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

Industries Served

- Pool and Spa
- Industrial, Commercial and Residential Water Systems
- Heating and Cooling

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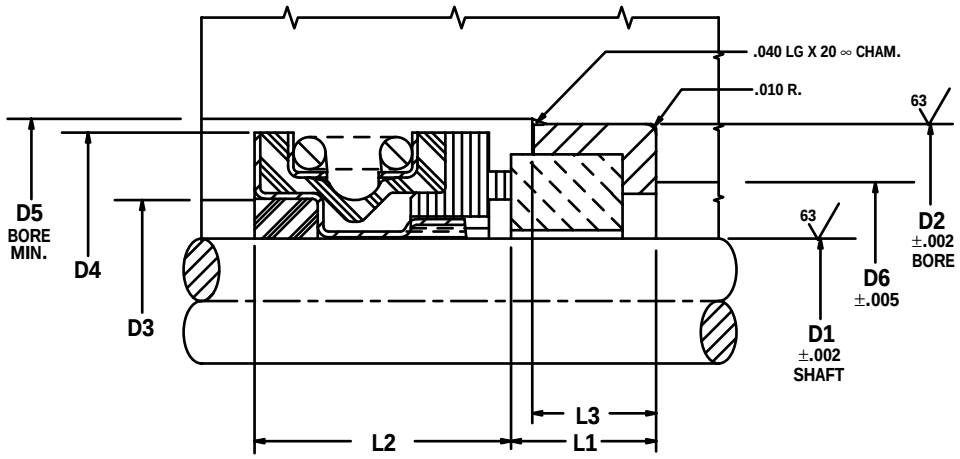
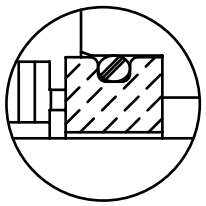
Type 6 Typical Arrangement/Dimensional Data





ALTERNATE O-RING SEAT

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

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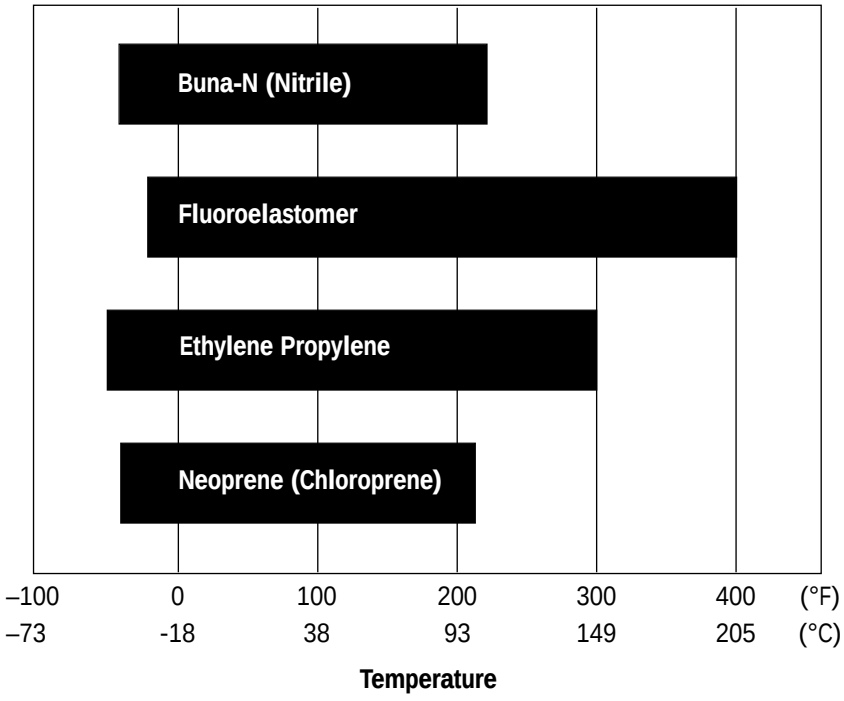
Criteria for Installation

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



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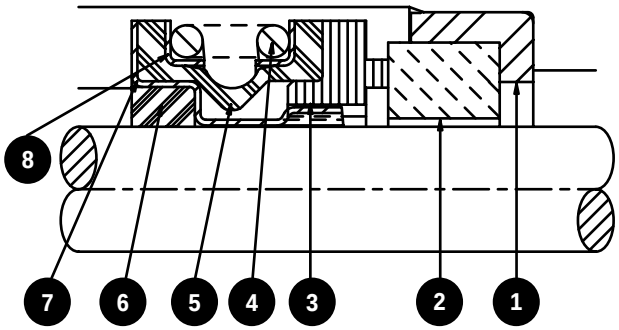
Materials of Construction

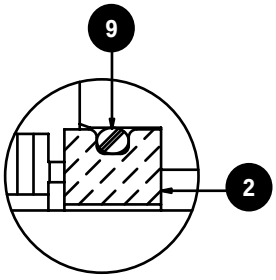
SEAL COMPONENTS	MATERIALS
Primary Ring (Washer)	Cranecarb (Phenolic Carbon Graphite) Carbon
Mating Ring (Seat)	Ceramic Silicon Carbide Niresist
Hardware	Stainless Steel
Secondary Seals (Bellows, Drive Ring, Seat Cup, O-Ring)	Buna-N (Nitrile) Neoprene® (Chloroprene) Ethylene Propylene Fluoroelastomer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

Neoprene is a registered trademark of DuPont.

Item. #

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





ALTERNATE O-RING SEAT

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