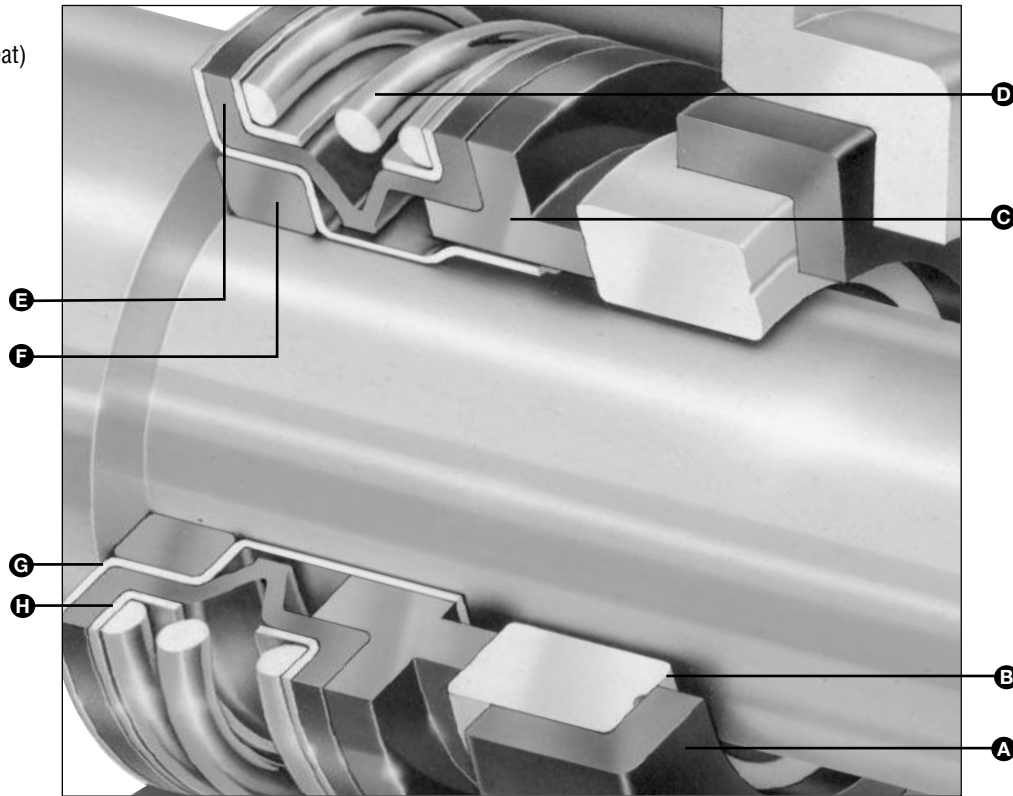


TYPE 6

ELASTOMER BELLOWS SEAL

Technical Specification

- 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

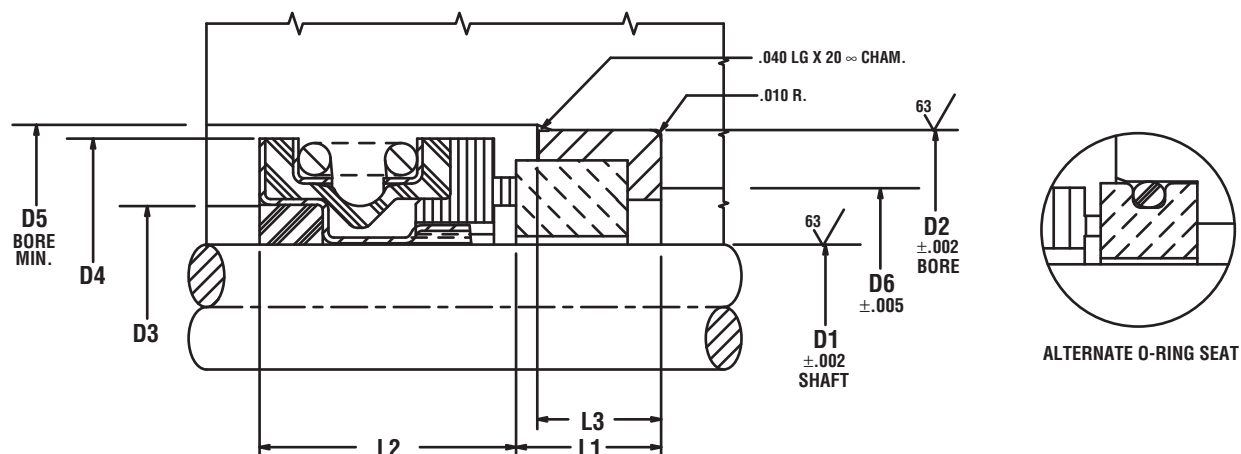
Design Features

- 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 Typical Arrangement



Type 6 Dimensional Data (inches)

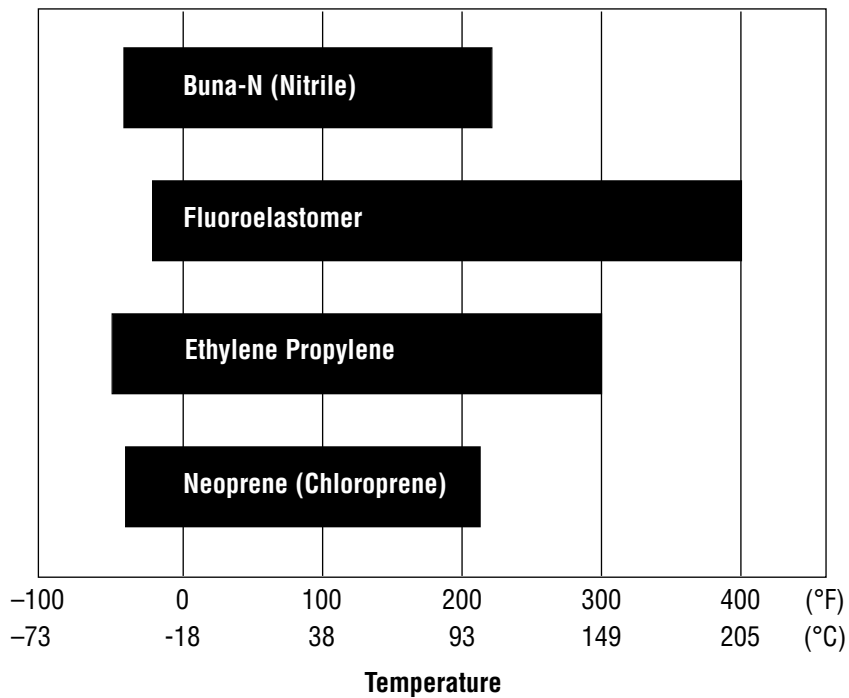
Seal Size/D1

(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

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

