

Type A05 — Multi-spring pusher seals

APPLICATIONS

- chemical/ refining
- pharmaceutical
- power generation
- food processing
- pipeline
- pulp & paper
- water/ waste water

BENEFITS

- Longer lasting seals in demanding applications
- Affordable for mainstream use
- Tolerates dry running and poor lubricating environments
- Low friction enables the use of hard faces in thermally demanding applications

PRODUCT DESCRIPTION

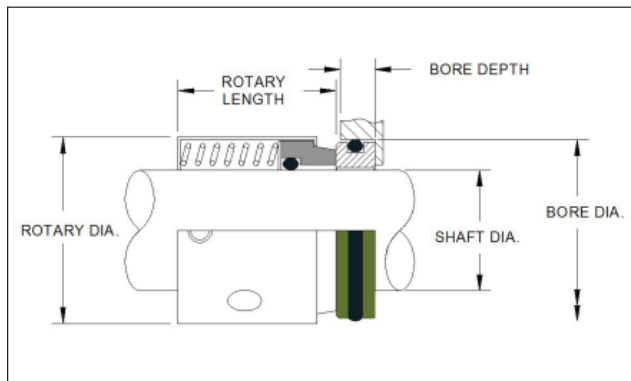
Type A05 seals are long-lasting, multi-spring pusher component seals that feature a proprietary UNCD® form of diamond on the seal ring face. Multiple spring design provides uniform loading of seal face. O-rings are used as secondary sealing elements. Rotary components are held together using a snap ring design.

DIMENSIONAL DATA

The UNCD Type A05 Seal is offered in five sizes to accommodate ANSI pumps with shafts of 1 - 1/8" to 2 - 1/8" diameters. Alternate sizes available upon request. All seals are supplied with rotary head and mating ring whose general design and geometry match the drawing and table below.

SHAFT DIA. (+/-0.002)	ROTARY OD	ROTARY LENGTH	BORE DIA. (+/-0.002)	BORE DEPTH	ADT PART NUMBER
1.125	1.562	1.000	1.750	0.375	A051125 C031 122
1.375	1.937	1.375	2.000	0.375	A051375 C031 122
1.750	2.312	1.375	2.500	0.438	A051750 C031 122
1.875	2.500	1.375	2.625	0.438	A051875 C031 122
2.125	2.815	1.687	3.000	0.500	A052125 C031 122

UNITS IN INCHES



MATERIALS OF CONSTRUCTION

Standard construction is 316 stainless steel with Hastelloy® springs and either an alpha-phase self-sintered silicon carbide or a blister resistant carbon primary ring. Mating ring is alpha-phase self-sintered SiC with UNCD Face. O-ring elastomers are Viton® and anti-extrusion ring is PTFE (polytetrafluoroethylene). Other material combinations are available upon request.

Primary Face: SiC or Blister Resistant Carbon

Stationary Face: SiC with UNCD Face

Metal Components: 316 Stainless Steel & Hastelloy Springs

Elastomers: Viton

MEDIA

UNCD Type A05 Seals are appropriate for industrial fluids, aqueous solutions, chemicals, corrosive liquids, high pressure liquids, lubricating fluid, hydrocarbons, and solvents.

PERFORMANCE LIMITS

- Pressure:** 200 psig (13.8 bar g)
- Temperature:** -13 F to +392 F (-25 C to 200 C)
- Pressure Velocity:** Tested to 350,000 psi.ft.min⁻¹
- Speed:** Up to 5,000 fpm (25 m/s)

VERSION 4.1