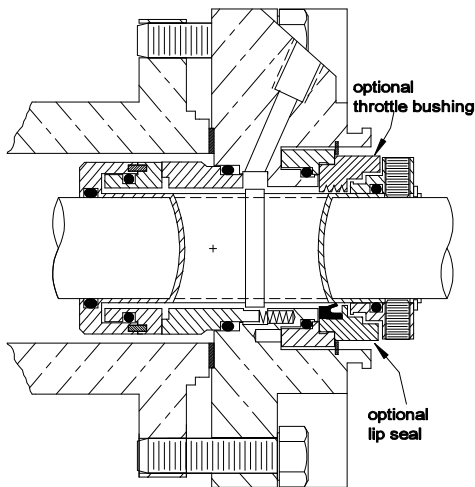




DELTA SINGLE CARTRIDGE SEAL FOR NARROW CROSS SECTION PUMPS IN SEVERE SERVICE APPLICATIONS

STYLE 8005



Optional floating throttle bushing or lip seal design for frame 1 ANSI stuffing box with .312 packing space. Provides solution for dissolved and undissolved solids and thermally sensitive fluid applications.

Technical Features

Delta's integral throttle bushing or lip seal provides a quench on the atmospheric side of seal to prevent buildup of particles carried by normal seal weepage of product which may cause hang-up of springs and seal faces. The 8000 series offers a cost-effective alternative as a replacement to using compression packing, double mechanical seals with auxiliary systems, and dynamically sealed or magnetic drive pumps.

Optional gland lip seal provides a secondary containment seal allowing the use of a quench fluid reservoir, stand pipe, or external water flush for outboard side lubrication of seal faces. This configuration offers reduced maintenance and plant water consumption in demanding applications in power, pulp and paper, and chemical processing industries.

Self-venting, bi-directional barrier/quench fluid connections accommodate shaft rotations in either direction on horizontal and vertically mounted equipment.

Interchangeable stationary faces enable application customization, accommodating the widest range of operating conditions and applications in industry. Monolithic, one-piece designs provide unequalled face stability under fluctuating system operating conditions. Two piece face designs that assure optimum seal performance for the most challenging, demanding environments where one piece face construction is vulnerable to premature failure.

All static o-rings are used throughout, which eliminates damage to the pump shaft/sleeve or seal normally caused by rotary pusher component or pusher cartridge type seals, allowing use of solid pump shafts that minimize deflection.

Optional special metal insert provides a cost effective alternative for corrosive service. This design variation uses a special metal insert (Titanium, Hastelloy "B", "C") for the process wetted surface in a standard 316 SS gland.

Rotary inboard faces stabilized under compression are flexibly mounted utilizing o-rings for their shock and vibration absorption qualities. This eliminates premature fractures in the faces under thermal and mechanical shock that can cause catastrophic failures in other designs with faces under tension.

Positive hold, metal centering clips center the seal in both the axial and radial directions.

Stationary springs are mounted in the gland and are completely isolated from the pumped product and are not susceptible to centrifugal force during operation so coil fatigue of the springs is prevented.

Choose from spare parts kits for field repair or the optional factory repair.

Optional Features:

- 2 piece stationary face
 - Exotic Metal Gland insert design
- Select one of the following:
- Floating Throttle Bushing design (Bronze or Carbon)
 - Lip Seal Design

Application Data

Shaft speed: To 3600 RPM

Pressure: Vacuum to 400 PSI

Temperature: See O-ring limitations

Materials

Metal Parts: 316SS, Alloy 20, Hastelloy "C", Titanium

Springs: Hastelloy "C"

Faces: Combinations of Carbon, Sintered-Silicon Carbide, and Tungsten Carbide

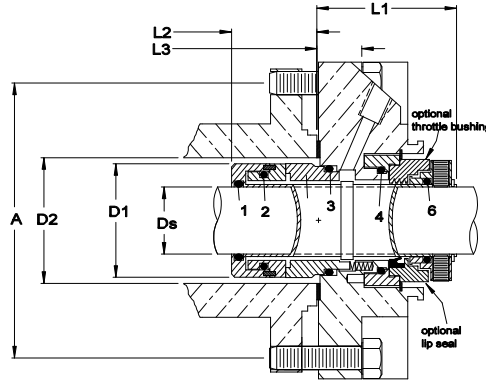
Elastomers: Viton, EPR, Kalrez, Aflas, Teflon

DIMENSIONAL DATA FOR DELTA SEAL STYLE 8005

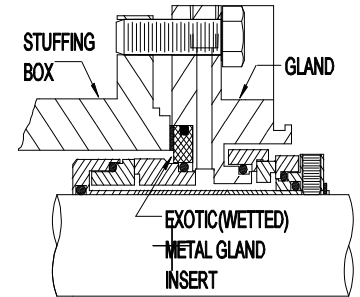
FRONT VIEW

SIDE VIEW

OPTIONAL GLAND FEATURE



Optional exotic metal gland insert for corrosive environments. (Hastelloy "C", "B", Titanium, etc.)



DS Seal Size	D1 Sleeve OD	D2 Min	D2 Max	D3 Gland OD	D4 Gland Flat	A Min. Bolt Circle by Stud Size				S Slot Width	L1 Outside Length	L2 Inside Length	L3 Gland Length	Pos. 1 Oring	Pos. 2 Oring	Pos. 3 Oring	Pos. 4 Oring	Pos. 5 Oring	Pos. 6 Oring
						3/8"	1/2"	5/8"	3/4"										
1.125	1.718	1.750	2.200	4.110	1.908	2.875				0.435	2.125	1.062	0.460	122	028	128	128		124
1.375	1.967	2.000	2.410	4.300	2.046	3.250				0.435	2.125	1.062	0.460	126	030	132	132		128

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