

STYLE 3820





Application Data

- Shaft speed: To 3600 RPM
- Pressure: Vacuum to 400 PSI
- Temperature: See O-ring limitations

Materials

- Metal Parts: 316SS, Alloy 20
- Springs: Hastelloy "C"

Faces: Combinations of Carbon, Sintered-Silicon

Carbide, and Tungsten Carbide

Elastomers: Viton, EPR, Kalrez, Aflas, Teflon

DELTA DOUBLE CARTRIDGE SEAL WITH PUMPING RING FOR MOYNO® AND TARBY® PUMPS

High efficiency forced circulation pumping ring design. Designed with special gland geometry for progressing cavity pumps.

Technical Features

High efficiency pumping design provides 400% increase in flow, providing superior heat removal through the circulated barrier fluid.

Special gland geometry for positive displacement pumps allows use of a standard cartridge seal in place of OEM component seals. The use of cartridge seals simplifies installation and avoids potential damage to shaft and seal components.

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

Double balanced, stationary design can be operated in two modes. In double mode the barrier fluid pressure higher is than stuffing box pressure. In tandem mode the barrier fluid pressure is lower than stuffing box pressure and can accommodate pressure reversals at the inboard faces.

Cool running double cartridge design combines large internal clearances, optimal inboard and outboard face widths, and centrally located flush ports. These features maximize the circumferential flow around the seal faces, resulting in more efficient cooling and extended seal life.

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.

Balanced stationary cartridge design utilizes all static o-rings, 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.

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

Choose from spare parts kits for field repair or the optional factory repair program. State of the art, easy-to-install design uses the least number of components, simplifying field repair, resulting in low life cycle costs.

All seals are pressure tested at the factory assuring 100% sealability during startup.

DIMENSIONAL DATA FOR DELTA SEAL STYLE 3820

FRONT VIEW

SIDE VIEW

OPTIONAL GLAND FEATURE





| DS Seal | 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 Lenath | L2 Inside Lenath | L3 Gland Length | Pos. 1 Oring | Pos. 2 Oring | Pos. 3 Oring | Pos. 4 Oring | Pos. 5 Oring | Pos. 6 Oring |
|------------|--------------------|--------|-----------|-------------------|---------------------|------------------------------------|------|------|------|--------------------|-------------------------|------------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Size | | | | | | 3/8″ | 1/2″ | 5/8″ | 3/4″ | | 5 | 5 | 5 | | | | | | |
| 1.125 | 1.718 | 1.865 | | 3.937 | 2.375 | | | | | | 2.060 | 1.350 | 1.350 | 122 | 028 | 128 | 128 | 126 | 124 |
| 1.312 | 1.967 | 2.125 | | 4.875 | 2.875 | | | | | | 2.060 | 1.350 | 1.350 | 126 | 030 | 132 | 132 | 130 | 128 |
| 1.625 | 2.345 | 2.375 | | 5.250 | 3.000 | | | | | .544 | 2.125 | 1.285 | 1.350 | 130 | 137 | 137 | 136 | 134 | 132 |
| 2.125 | 2.835 | 2.875 | | 6.625 | 3.810 | | | | | | 2.125 | 1.285 | 1.350 | 138 | 145 | 145 | 144 | 142 | 140 |
| 2.500 | 3.215 | 3.250 | | 7.250 | 4.250 | | | | | | 2.125 | 1.285 | 1.350 | 144 | 151 | 151 | 150 | 148 | 146 |
| 3.500 | 4.415 | 4.455 | | 9.875 | 5.500 | | | | | | 2.300 | 1.160 | 1.350 | 238 | 242 | 242 | 242 | 241 | 239 |

Distributed By:



Manufactured By:

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