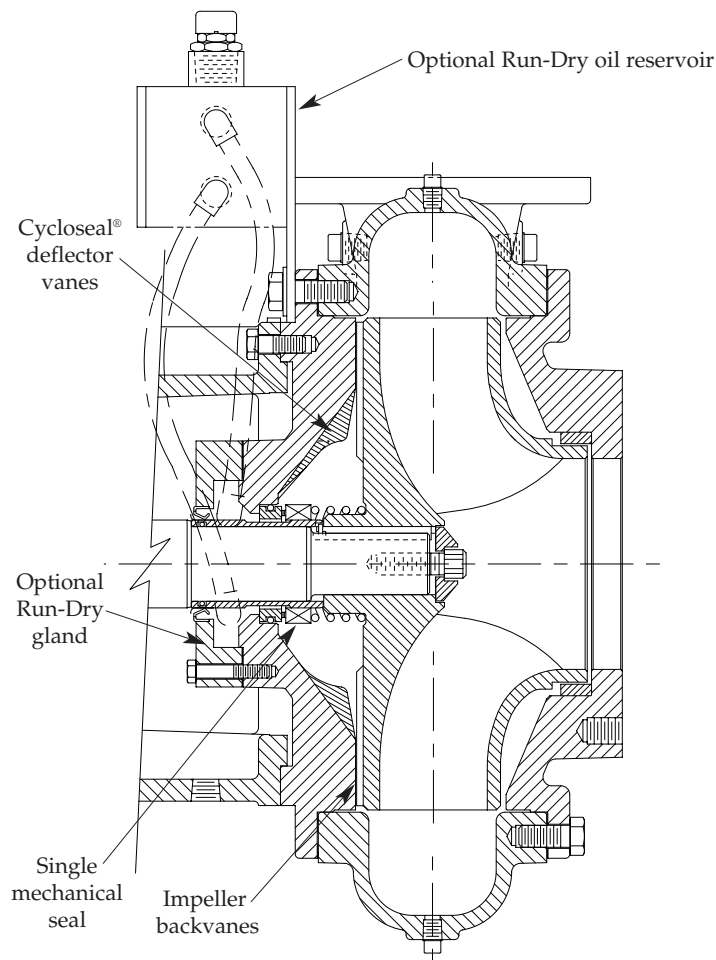


Cycloseal® Design

Cornell's patented Cycloseal® design, with its unique deflector vanes, works with the impeller backvanes to create a cyclo-action. This action removes solids and abrasive material from the seal area while purging air and gas pockets — extending seal life and eliminating any need for venting or water flush.

The Cycloseal® design is available in all solids handling pumps and many clear liquids, hot oil and food handling pumps.



Cycloseal® patent # 5,489,187

Cycloseal® Benefits

Extended Seal Life: Cornell's Cycloseal® design has proven itself in the toughest applications from manure slurry to starch recovery to clear water, food processing, self-priming and hot cooking oil applications — in some cases more than tripling the normally expected mechanical seal life.

Run-Dry Option: All pumps equipped with Cornell's patented Cycloseal® system have an optional run-dry feature, which serves to lubricate the seal faces even when there is no liquid in the pump casing. In situations where the pump must run dry for several hours, or where the pump may suddenly lose prime without being shut off, the run-dry feature is a must.

System Savings: Cycloseal® requires no external water flush, no filters, grease cups, piping or instrumentation as normally associated with packing or double mechanical seals.

Maintenance Savings: Longer seal life which translates into less pump down time and lower maintenance costs.

John Crane Type 1 & 2 Mechanical Seal Features

Self-aligning: Automatic adjustment compensates for abnormal shaft movement, primary sealing wear, machinery tolerances and service life

Non-clogging Single Coil Spring: Greater dependability than multiple spring designs

Non-pusher Design: No dynamic O-rings to hang up. All seal movement occurs in the bellows

No Set Screws: Nothing to mar the shaft or sleeve

Temperature Limits: -40°F to 160°F (Buna);
-40°F to 400°F (Viton®)

Dynamic Pressure: 350 PSIG (dependent on seal size)

Seal Faces: Tungsten carbide vs. silicon carbide or carbon vs. ceramic (other material options available)

Elastomeric Bellows: Buna-N, Viton® and other materials available

Hardware: Stainless or plated steel

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