



Air Regulator with Gauge Controls and Monitors Pressure

Mechanical Shaft Seals

Mechanical shaft seals prevent bulk material leakage from drive and tail shafts of a screw conveyor, screw feeder or bucket elevator. Woodex/MECO and CinchSeal manufacture industry-leading mechanical shaft seals typically used in the chemical and food industries and are ideal for dry powders as well as wet bulk materials.

Both Woodex/MECO and CinchSeal mechanical shaft seals are manufactured to CEMA dimensions and tolerances to interchange with other shaft seals such as waste-pack and flanged gland seals. An inner stator is fixed to the rotating drive or tail shaft and rotates with the shaft. The faces of the stator seal against the stationary faces of the outer housing. The low friction rotating seal faces are at right angles to the shaft and in full contact with the stationary seal faces. Shaft wear is completely eliminated. Outer housings are available in aluminum, and 304 or 316 stainless steel, depending on application requirements.

Features:

Air Purged – Seals are air or inert gas purged at 5 to 8-psi above internal pressure of equipment to maintain a positive seal. Higher internal seal pressure creates a natural barrier to keep material from leaking out of equipment. Air regulator with gauge is supplied to adjust and monitor pressure.

Face Seal Design – Elastomeric stator rotates with shaft and seals against seal faces in outer housing. Elastomeric material provides positive force against stationary seal plates.

Shaft Run Out – Seals are designed to accommodate up to 1/4-inch radial shaft run out or eccentric movement. Shaft run out or eccentric movement is the major cause of failure for other types of shaft seals.

Benefits:

Zero Leakage – Positive air or inert gas purge prevents bulk material leakage. Purge pressure is monitored with gauges and can be adjusted as required.

Minimal Maintenance – Elastomeric stator is self-adjusting. Mechanical shaft seals consume less power and will not undercut shafts when compared to flanged gland or pump-type seals.

Unique Design – Accommodating up to 1/4-inch radial shaft run out or eccentric movement prevents bulk material leakage, reduces downtime and unplanned maintenance.



KWS Manufacturing

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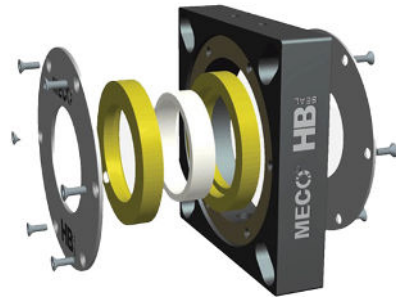
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Mechanical Shaft Seals



Elastomeric Stator Rotates with Shaft and Seals Against Seal Faces in Outer Housing



Mechanical Shaft Seals are Manufactured to CEMA Dimensions and Tolerances



Seals are Air or Inert Gas Purged at 5 to 8-psi Above Internal Pressure of Equipment



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