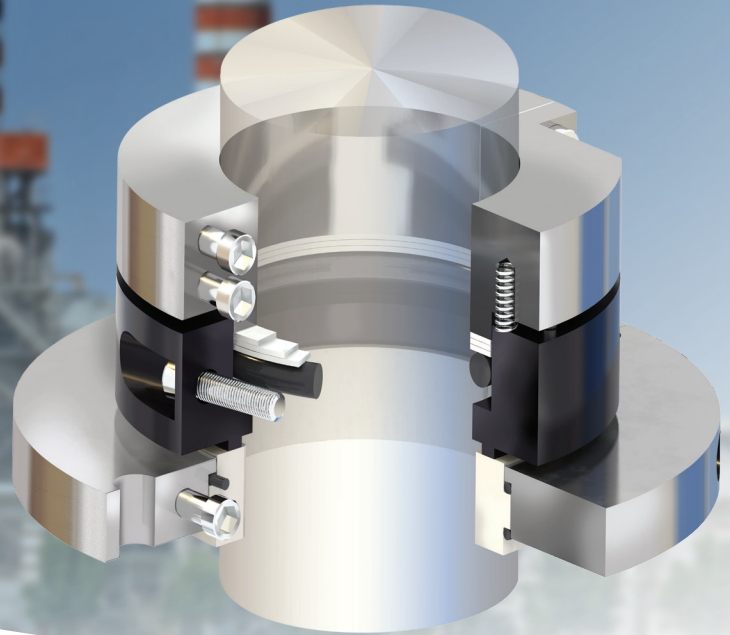


MSS

Dry-Running, Top-Entry Split Seal for Mixers

On older equipment, or where compression packing is being changed out for a mechanical seal, shaft wobble and eccentricities can be severe. The MSS seal was designed to work in these tough conditions where stuffing box face run-out, bore run-out and OD run-out are beyond the capabilities of seals designed primarily for centrifugal pumps.



Features and benefits

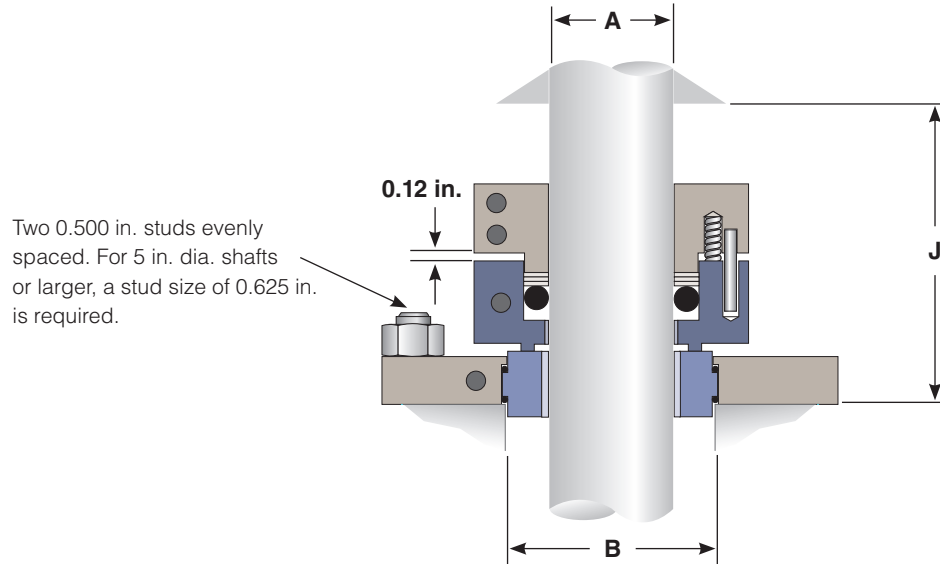
- Handles shaft run-out up to 0.150 in. TIR
- The outside seal arrangement of the MSS seal makes **installation, inspection and maintenance simple**. Installation time is typically less than 45 minutes — with 10 simple steps and common hand tools.
- **Non-metallic wetted parts** — the only components of the MSS seal which contact process fluids (or gases) are the seal faces, insert mounting and shaft packing O-rings.
- **Fits in tight spaces with no equipment teardown** — can be installed in cramped stuffing box areas where the bearing housing, gearbox and/or coupling create obstructions.
- **Can be run dry or wet** — the self-lubricating faces and a design that dissipates heat from the seal faces make dry-running the MSS seal a practical alternative to packings and liquid-running seals on top-entry mixers. The MSS seal can run with wet faces and is a good choice for side-entry reactors and paper stock chests.
- **Withstands pressure reversals** — the MSS seal's design compensates for pressure reversals and helps to ensure product purity.

Materials of construction

Metal components	316 stainless steel
Rotating face	Carbon
Stationary face	Ceramic (tungsten carbide optional)
Gasketing	Fluoroelastomer (EPR optional)

Operating parameters

Pressure	Dry: Vacuum to 5 bar (75 psi) Wet: Up to 7 bar (100 psi)
Speeds	Dry: Up to 350 rpm Wet: Up to 1,740 rpm
Shaft run-out	Up to 4 mm (0.150 in.) TIR (sum total of run-out, eccentricity and deflection)
Shaft sizes	25 to 305 mm (1.000 to 12.000 in.)



Note: Dimension J reflects the minimum distance required for the assembled seal plus additional axial space required for seal assembly.

Dimensional data in inches

Shaft Size ± 0.001 in. (Dimension A)	Standard Bore Diameter ± 0.005 in. (Dimension B)	Gland Bolt Circle Diameter	Distance to First Obstruction (Dimension J)
1.000 1.250 1.500	2.250 2.500 2.750	4.75 5.00 5.25	4.44 4.44 4.44
1.750 2.000 2.250	3.000 3.250 3.500	5.50 5.75 6.00	4.44 4.44 4.44
2.500 2.750 3.000	3.750 4.000 4.250	6.25 6.50 6.75	4.44 4.44 4.44
3.250 3.500 3.750	4.500 4.750 5.000	7.00 7.25 7.50	4.44 4.44 4.44
4.000 4.250 4.500	5.250 5.500 5.750	7.75 8.00 8.25	4.44 4.44 4.44
4.750 5.000 5.250	6.000 6.500 6.750	8.50 9.50 9.75	4.44 5.00 5.00
5.500 5.750 6.000	7.000 7.250 7.500	10.00 10.25 10.50	5.00 5.00 5.00

The above is a partial listing. Additional sizes up to 12.000 in. and metric sizes are also available.