

Low Profile, High Versatility

The MECO AH Type-2 is a fully custom, pneumatically loaded shaft seal, capable of fitting a wide range of shaft sizes. Its fully split design minimizes downtime for both installation and maintenance. Unlike standard stuffing boxes and packing glands, the AH Type-2 is non-abrasive to the machine's shaft and can accommodate shaft runout. Instead, the wear is transferred to its replaceable polymer rotors. With its impressively low profile, the AH Type-2 is the best answer to the common question: "How are we going to fit a mechanical seal in such a small space?"

How It Works

At the heart of the AH Type-2, two rotating polymer seal faces (rotors) slide against stationary, stainless-steel seal faces (stators) to form a dynamic seal. The polymer rotors are frictionally locked into rotation with the machine's shaft by an elastomer drive ring. The sliding seal face is pneumatically loaded by a compressed gas, typically air or an inert gas, which also acts to clear the rotating seal faces of product and debris. In addition, the purge gas helps isolate the process from the atmosphere.

Applications

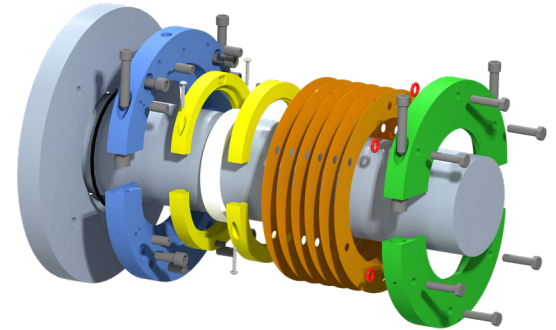
The AH Type-2 is frequently used when an air or inert gas barrier is needed to isolate the process from the external atmosphere, or when space for a seal is at a premium. It is best suited for applications with infrequent, or no thermal expansion. The AH Type-2 can be used on horizontal, inclined, and vertical shafts. Several common machines and process material applications are listed below.

AH Type-2 Machine Applications

- Screw Conveyors
- Blenders
- Bucket Elevators
- Mixers

AH Type-2 Process Material Applications

- Dry bulk conveying
- Dry chemical processing
- Plastic powder blending and colorizing
- Dry food conveying
- Dry and wet food mixing and cooking
- Explosive environments



AH Type-2 Features:

- ✓ Fully Split
- ✓ Pneumatic Seal-Face Loading
- ✓ Elastomer Driven
- ✓ Low Profile



Sizing & Material Options

MECO's AH Type-2 is custom-engineered and manufactured to fit the needs of each application. Shaft sizes typically range from 1" (25 mm) to 17.5" (445 mm) and MECO engineers can accommodate to most mounting arrangements.

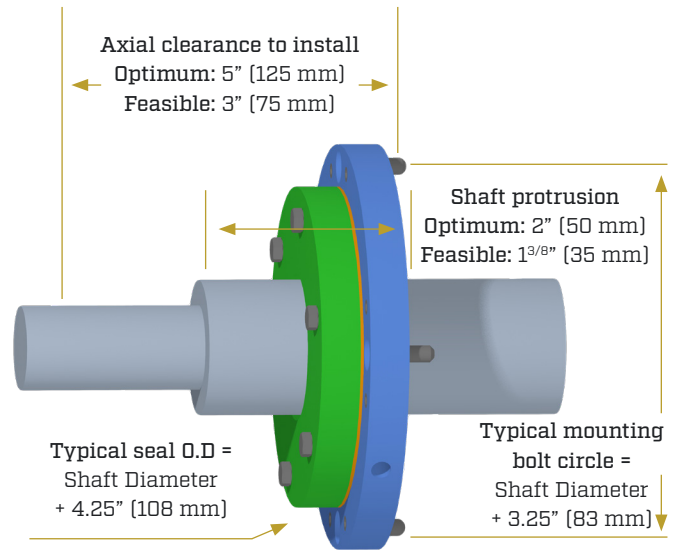
The AH Type-2 seal is available in a variety of materials. The most common materials are listed below, but alternative materials may be available upon request. Contact MECO with your specific application requirements for a custom solution.

Stator Materials	Drive Elastomer Materials	Rotor Materials
304L Stainless-Steel	Viton®	MECO 3000 *
316L Stainless-Steel	Silicone	MECO 3120 *
Other Alloys	EPDM	MECO 3400 **

* FDA Approved Polymers

** EC10/2011 Approved Polymers

Fully-Split For External Mounting



Maintenance

The AH Type-2's sealing performance can be easily monitored by maintenance and production personnel using the seal's pressure gauge system. The pressure gauge system is effective in quickly alerting maintenance and production personnel of a potential seal breach so that adjustments or repairs can be made before product leakage occurs.

The AH Type-2 can be routinely adjusted to maximize service life by simply removing adjusting gasket-shims between the inboard and outboard stators. Fully split rebuild kits are available if the seal's components are worn further than can be corrected by removing adjusting gaskets. The AH Type-2 is also equipped with an access port to inspect and clean the seal cavity of contaminants.

Operating Parameters

MECO specializes in custom engineered seals designed for the particulars of each specific application. The mechanical capabilities of the AH Type-2 are dependent on the materials and processes involved in the application. If the AH Type - 2 isn't applicable to your application, MECO has a range of other custom seal models, ensuring that we have an option for most applications.



To learn more and to find out if the **AH Type-2** is the right seal for you, please give us a call, or submit an online application today!

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