

# ROTARY VALVES

## Prevent Product Leakage and High Costs

Rotary valves, also known as rotary feeders or rotary airlocks, are an essential component in processing industries as they regulate the flow of material throughout the system. Yet, they suffer from product leakage for several reasons.

### A CHALLENGING APPLICATION

First, the process materials, particularly powders, are prone to leak as they build up along the shaft, forcing their way out of the equipment. Typically, packing or lip seals are used to seal the shaft, but they require constant maintenance and eventually wear out from frictional contact. Leakage leads to product loss and contamination, increased maintenance costs, and safety issues.

Second, the rotary valve's unique shape and variety of styles often require a customized solution to fit the space. A one-size-fits-all approach will not work.

### A PERMANENT SEALING SOLUTION

The Inpro/Seal® Air Mizer®, a maintenance-free shaft seal that uses small amounts of air or inert gas as a barrier around the shaft to eliminate material leakage, is the perfect sealing solution for rotary valves.

The AM Rotary Valve, an Air Mizer design specific for rotary valves, does not wear and accommodates the unique challenges to these applications. Its compact design fits the tight spaces between the housing and bearing and can be custom engineered using a variety of flange shapes to slide between the webbing into the seal location. The AM Rotary Valve accommodates radial runout and axial movement simultaneously.



*Rotary valves are prone to expensive and unsafe leakage due to ineffective shaft seals*



*AM Rotary Valve shaft seals*

### ADVANTAGES

#### Inpro/Seal Air Mizer shaft seals for rotary valves:

- Permanently seal against product loss and contamination.
- Require zero maintenance and no periodic rebuilds.
- Are compact and custom engineered to fit tight spaces.
- Can be split for ease of installation.
- Can accommodate radial run-out and axial movement simultaneously.
- Are backed by a best-in-class performance guarantee.

