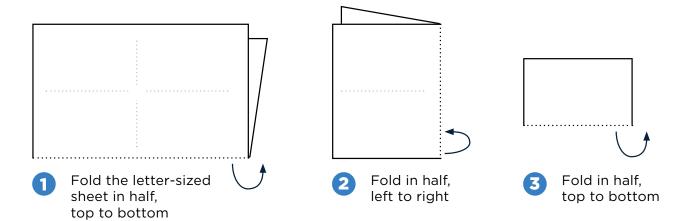


# PRINT & FOLD POCKET GUIDE

- → Print document at 100%
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## **ROTORS & VANES**

- → Rotor should have 8 vanes or more.
- 2 vanes must be in contact with each side of the housing at all times.
- Yanes should be 3mm thick with metal tips, not rubber or plastic.
- → Check rotor tolerances often: they should be 0.0079" or smaller.

### **EQUIPMENT**

- → Ensure valves have functioning outboard bearings.
- Place a temperature switch on outboard bearings to detect excessive heat.
- → Use a sleeve-style shaft seal made of Teflon.
- → Ensure dust collectors have explosion release vents and passive isolation flap valves.

## **OTHER CHECKS**

- Ensure ventilation system works properly and flows in the right direction.
- Regularly check the status of the explosion prevention system.
- Watch for any other signs of issues, such as odd noises and material leaks.

## CONSISTENT ASSESSMENT

- Ensure employees are trained in housekeeping and NFPA-related procedures.
- → Perform regular dust hazard analyses (DHAs).
- Promptly act on any issues detected by the DHAs.

## MEASURE & MONITOR



- → Ensure rotary valves are sized properly.
- → Ensure valve rotation speed does not exceed 200 rpm.

#### OR

Maintain clearances by ensuring 30cm of material remains in the hopper.

### **OPTIONAL FEATURES**

- Install an air cooler on the conveying line before the material feeder.
- → Install a metal detector upstream of the valve.
- Get any industrial explosion protection devices recommended by the NFPA & DHA advisor.

## HISTORICAL MAINTENANCE

- Keep a historical log to document maintenance and repairs.
- → Keep a regular housekeeping schedule.
- → Replace rotary valve parts as soon as they show signs of wear or fatigue.

## **MORE RESOURCES**

- → NFPA 68 (2018)
- → NFPA 69 (2019)
- → NFPA 652 (2018)
- → NFPA 654 (2020)