

# NFPA COMPLIANT ROTARY VALVES

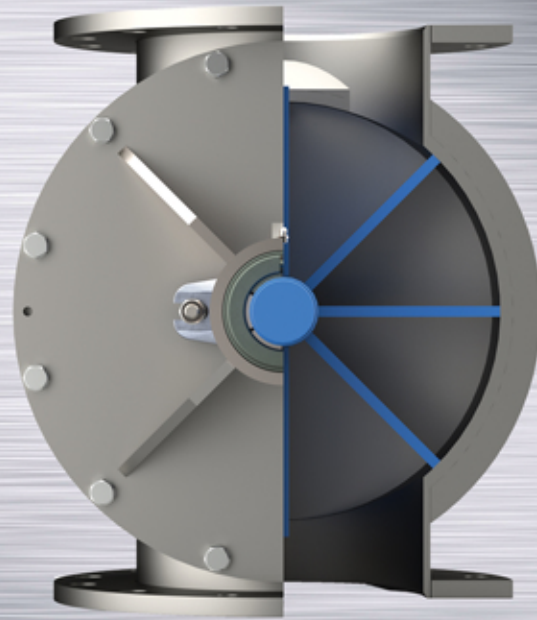
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## STANDARD FEATURES:

- ▶ Eight vane (minimum) Open end rotors.
- ▶ Minimum two rotor blade seal on each side of housing.
- ▶ Maximum clearances between the rotor and valve body is .0079".
- ▶ The rotor and housing are designed for the maximum anticipated explosion pressure as derived using NFPA 69 standards, for the application requirement.
- ▶ Outboard mounted bearings.
- ▶ Fixed Metal rotor tips with a minimum of ¼" thickness.

## OPTIONAL FEATURES:

- ▶ PE certified calculations for pressure design of the rotary valve.
- ▶ Hydrostatic pressure testing.
- ▶ Adjustable/replaceable rotor tips to allow for maintaining internal radial clearance.
- ▶ Specially designed shrouded (closed end) rotors.



Now Available

Rotary Valve Calculator App

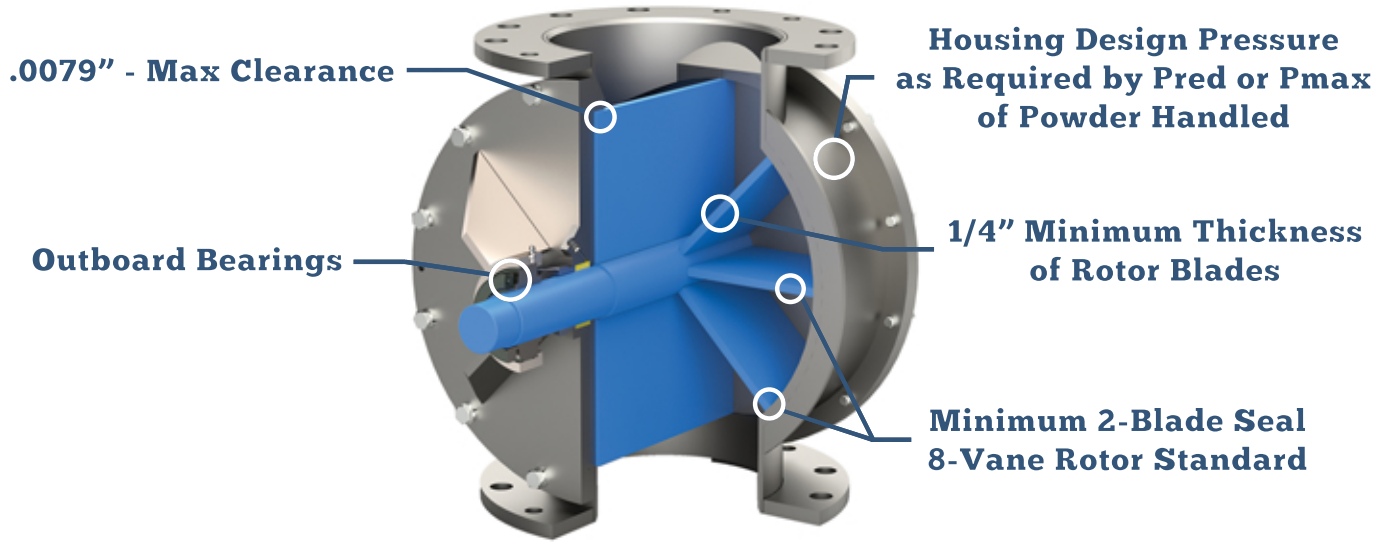


## ENGINEERED TO INCREASE PRODUCTIVITY. BUILT TO LAST.

Young Industries manufactures the Model LH (Low Headroom) and Model HC (High Capacity) Drop-Thru Rotary Valves to handle a wide variety of powders. When the application requires it, these valves can be supplied with design features to comply with NFPA 69 Standards for Close-Clearance Rotary Valves. Young Industries rotary valves are engineered to meet the process conditions in which the valve will be used. Our application engineers are trained to assist the user and their designated AHJ (Authority Having Jurisdiction) to ensure the equipment meets with the appropriate safety requirements. Young Industries has both ASME U & UM certifications and manufactures pressure containment Rotary Valves over 15 PSIG when the application requires it.

**ADVANCED  
TECHNOLOGY  
PROVEN DESIGN**

# NFPA COMPLIANT ROTARY VALVES



## APPLICATION INFORMATION

Young Industries manufactures NFPA Compliant Close-Clearance Rotary Valves to the exact need of the application. These rotary valves are used to isolate a deflagration from adjoining equipment by flame quenching. The design basis for the rotary valve will include the specific (Kst and Pmax) values of the powder being handled. The rotary valve housing and rotor will be designed based on the maximum anticipated explosion pressure (Pred) for those applications where the valve is isolating an enclosure protected by deflagration venting or suppression.

When these rotary valves are used as an isolation valve for an enclosure that has no deflagration venting or suppression, it is designed based on calculations outlined in NFPA 69 standards.

Young Industries NFPA Compliant Rotary Valves are not used as an isolation device for systems handling hybrid mixtures. Our NFPA Compliant Rotary Valves are used for powders with ST-1 and ST-2 dust classifications.



The complete line of Young Industries Model HC and Model LH Rotary Valves are available with design features to comply with NFPA 69 standards for Close-Clearance Rotary Valves.