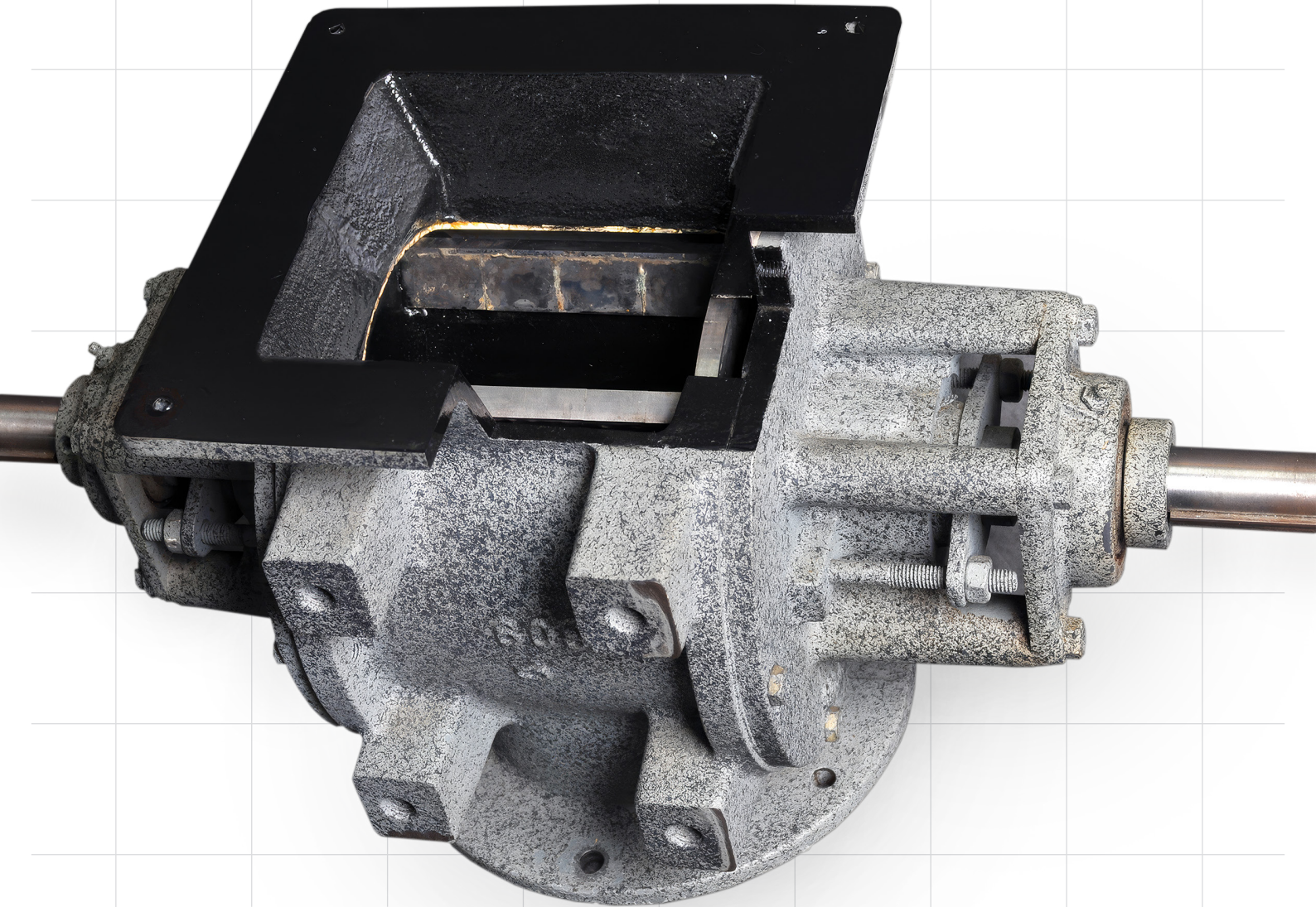




ABRASION-RESISTANT CERAMIC ROTARY VALVE

ABRASION-RESISTANT FEEDER FOR PNEUMATIC CONVEYING)

RUGGED AND RELIABLE

Our ceramic feeder offers exceptional abrasion resistance, extending feeder life and reducing maintenance.

KEY BENEFITS

01

Maximizes performance and dependability of pneumatic conveying systems by integrating multiple essential features into one unit.

02

Includes a ceramic lining and tungsten carbide coatings for superior abrasion resistance.

03

Provides a service life three to four times longer than other designs

04

Helps reduce downtime and lower overall maintenance costs.

EXCELLENT ABRASION-RESISTANCE

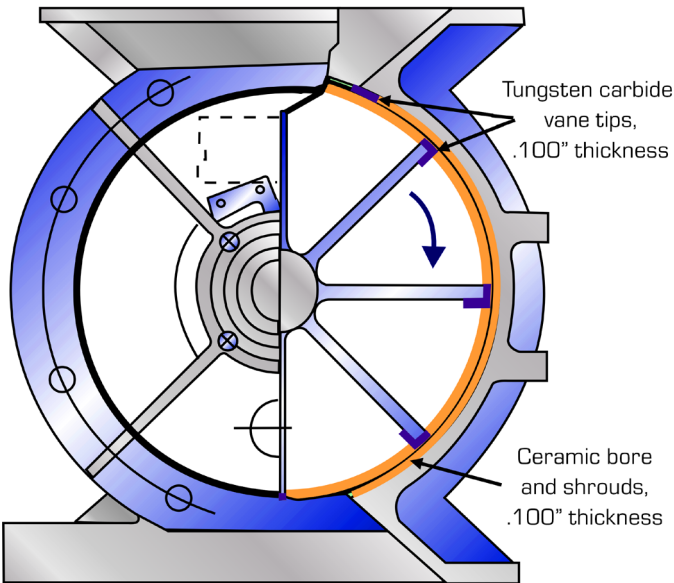
For demanding pneumatic conveying applications

The exceptional abrasion resistance is due to a 2.54mm (0.100 inch) thick ceramic bore and 2.54mm (0.100 inch) thick tungsten carbide rotor vane and shroud tips, and tungsten carbide throat protection.

Additional design details include:

- Cast body and end plates
- Heavy-duty fabricated 8-vane, closed-end rotor
- Air purge seal connections
- Air gap between seals and bearings
- Outboard sealed ball bearings
- Maximum operating temperature: 175°C (350°F)
- Maximum 15 psi differential pressure

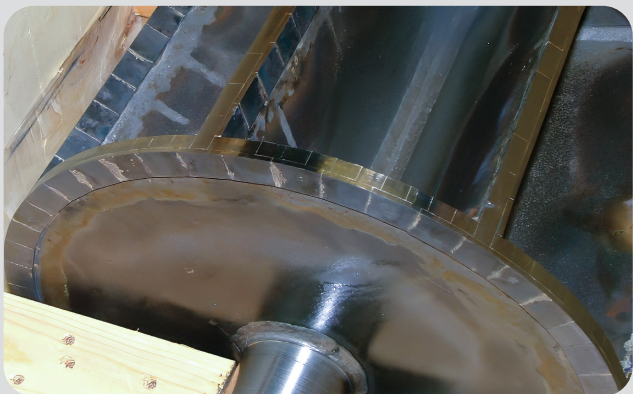
The heavy-duty rotary valve can handle abrasive materials in both pressure and vacuum pneumatic conveying systems. The valve can feed material at up to 0.26 cubic meters (9.1 cubic feet) per revolution, handle differential pressures up to 15 psi, and operate in temperatures up to 175°C (350°F).



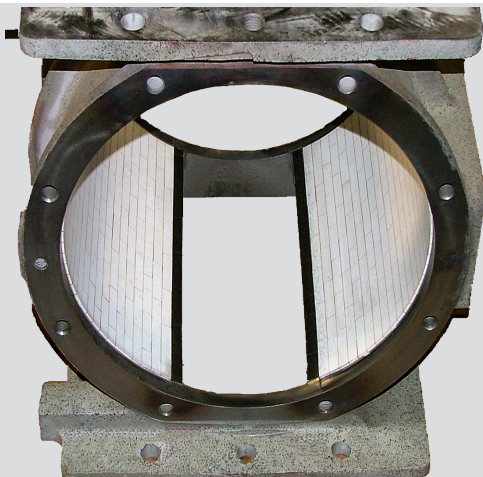
**Exceptional
abrasion
resistance
for materials
including:**

- | | | | |
|-----------|----------------|---------------|-----------------|
| • Alumina | • Copper | earth | • Lignite |
| • Cement | concentrate | • Feldspar | • Raw limestone |
| • Cement | • Calcium | • Fly ash | • Rutile ore |
| • Coal | carbonate | • Gold ore | • Sand |
| • Coke | • Diatomaceous | • Kaolin clay | • and more |

Detail of feeder interior



Tungsten carbide vane tips and shrouds



Ceramic-lined bore

Case story #1 - a limestone producer in Southwest USA

When a competitor's hard-coated feeder failed after 3 - 6 months, it was replaced with Fuller's 300 metric ceramic feeder.

Application: Airlock discharging limestone, 85 lb/cf from a screw conveyor to a 152 mm pneumatic convey system at a rate of 20 stph against a differential pressure of 8 psig.

Results: Fuller's ceramic feeder has been operating successfully for over 4 years without any clearance degradation or loss of operating rate. The superior hard surfaces of ceramic tile and tungsten carbide ensure long operating life.



Case story #2 - a water treatment plant in midwest USA

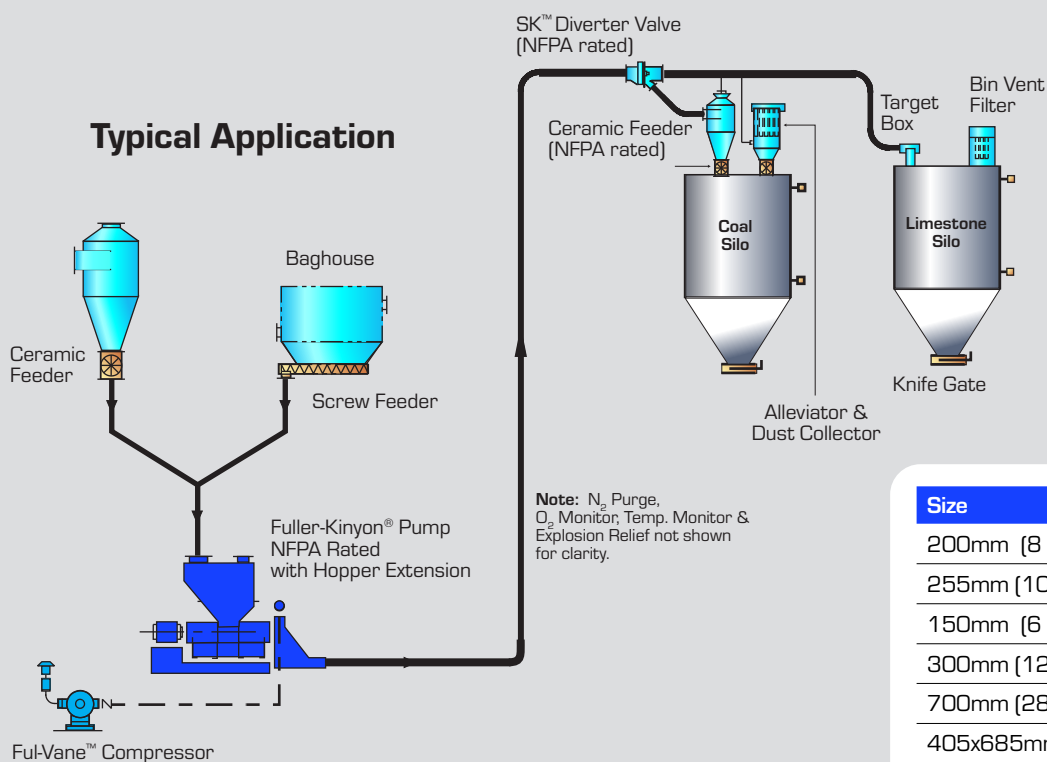
When a competitor's abrasion resistant feeder with hard shoe and rotor failed after 3 - 4 months it was replaced with Fuller's 300 metric ceramic feeder.

Application: Airlock discharging pebble lime, 55 lb/cf from a silo discharge to a 152 mm (6 inch) pneumatic convey system at a rate of 18 stph against a differential pressure of 10 psig.

Results: Fuller's ceramic feeder has been operating successfully for over 4 years without any clearance degradation or loss of operating rate. The Fuller feeder has had zero downtime while operating 18 hrs/day.



Typical Application



Size	Displacement
200mm (8 inch)	0.15 cu.ft./rev.
255mm (10 inch)	0.39 cu.ft./rev.
150mm (6 inch)	0.55 cu.ft./rev.
300mm (12 inch)	1.09 cu.ft./rev.
700mm (28 inch)	2.60 cu.ft./rev.
405x685mm (16x27 inch)	5.10 cu.ft./rev.
2500mm (98 inch)	9.08 cu.ft./rev.

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TECHNOLOGIES

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