

Extreme Material-Handling Challenges - Require **EXTREME** Components!



PRECISION
MACHINE & MANUFACTURING

SIDE-ENTRY ROTARY VALVE

A robust side-entry rotary valve designed to minimize shearing and breakage of delicate materials.

 premach.com

“This airlock is perfect for materials that are susceptible to breaking.”



Rotary Feeders • Rotary Valves • Screw Conveyors



Maximize Product Quality By Minimizing Product Handling Damage.

The Side-Entry Valve is specially designed for handling molded, formed, granular, or pelletized product shapes with care. The side-entry inlet allows material to slip gently into the rotor pocket from an angle, instead of a vertical drop, thereby minimizing product damage due to crushing or shearing.



SIDE-ENTRY ROTARY VALVE What Makes the Side-Entry Rotary Valve Work

Rotor

Made from a specially sourced 500 Brinell abrasion resistant alloy, this eight-vane closed-ended, rotor design with rounded pockets keeps the material flowing. The PMSE is equipped with a two-vane, air-locking seal at all times to ensure maximum air-lock functionality.



Over-Engineered & Over-Built!

Focused Industries



End Bells

Precisely machined to maximize functionality and equipped with ultra-duty bearings to ensure superior functionality and longevity!



Barrel Sides

Made from a special U.S. sourced abrasion-resistant alloy, with a through hardness of 500 Brinell, helps to ensure longevity of this rotary valve.



Surface Hardened

The internal surfaces of the barrel sides and wear plates are surface hardened for greater wear resistance.



Adjustable

The inlet flow can be fine tuned with adjustable orifice plate.



Flexibility

The Side-Entry Rotary Valve provides the ultimate in flexibility! Although our standard is to manufacture the PMSE Rotary Valve with an abrasion-resistant steel alloy, depending upon the application requirements, this rotary valve can also be constructed of stainless steel.



Special Handling

The PMSE rotary valve was specially designed specifically to handle specialized materials with care. Materials such as molded, formed, granular, or pelletized products are perfect for this unique rotary valve.

Modular Design

The modular design makes assembly and disassembly a breeze! Because our rotary valves are manufactured to simplify the repair and rebuild process, wear items can be easily replaced during a scheduled outage, which minimizes production downtime and cost.

The Side-Entry Rotary Valve is completely rebuildable!



SIDE-ENTRY ROTARY VALVE Key Advantages

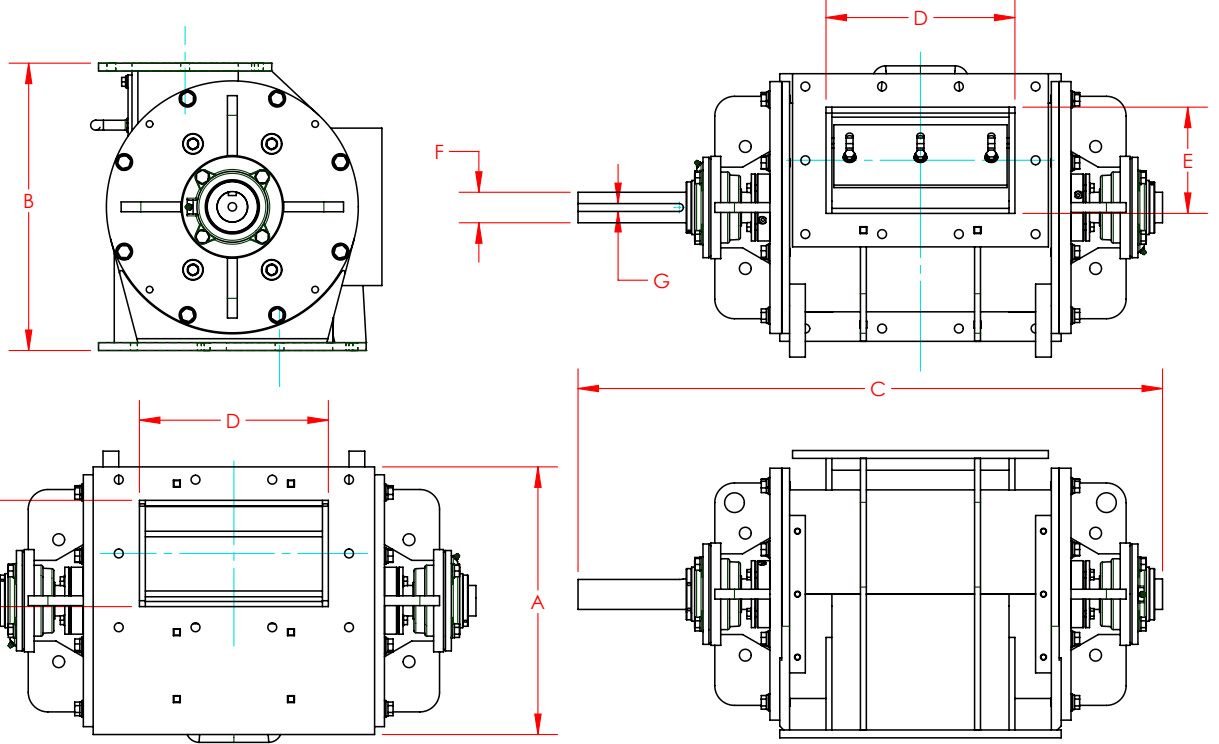
- ✓ **THERE IS A BETTER OPTION!** Eliminate those problematic, air-leaking, maintenance heavy, cast iron feeders with our superior performing rotary valve.
- ✓ Functional reliability avoids costly unscheduled downtime! Outage-to-Outage durability allows maintenance to be preplanned, which eliminates costly emergency shutdowns.
- ✓ Compact design is a "universal replacement" for competing models, which minimizes retrofitting.
- ✓ Tolerances are precisely machined to minimize air leakage and material blow-by.
- ✓ Modular design makes repairs simple! Due to the modularity and rebuild capability, Precision's Rotary Valve continues to provide a positive return on initial investment (ROI) for many years to come!

Precision Machine & Manufacturing's components are precisely crafted from raw materials that are made right here in the United States of America!
Quality you can count on!



 premach.com

Choose the right size for your unique material handling application.



CAPACITIES & DIMENSIONS		*Cubic Feet Per Revolution						
SIZE	CFR	A=WIDTH	B=HEIGHT	C=LENGTH	D=IN/OUT LENGTH	E=IN/OUT WIDTH	F=SHAFT DIA	G=KEYWAY
PMSE-12	0.675	17	18.25	37.125	11.25	6	1.9375	0.5
PMSE-14	1.23	19	21	39.875	14	7	1.9375	0.5
PMSE-16	1.84	22	24	42.875	16	8	1.9375	0.5
PMSE-18	2.6	24	27	53.0625	18	9	2.9375	0.75
PMSE-22	4.78	28	31	57.875	22	10.9375	2.9375	0.75



SEVERE-DUTY

Severe-Duty Rotary Valves are our standard rotary valves and the perfect solution when moving minerals, aggregates and other powdery, abrasive, corrosive, and high-temperature material types.

ULTRA-DUTY

Ultra-Duty Rotary Valves are for the most challenging material types! Ultra-Duty Rotary Valves are surface treated with ion-nitride to provide greater abrasion resistance and wear protection from the harshest materials.

STAINLESS STEEL

304/316 Stainless Steel is the perfect option for non-toxic and/or Food Safe applications, which require frequent cleanings, and resistance to cross-contamination. In addition, stainless steel can also be a great choice in corrosive environments as well.

**CONTACT
PRECISION
TODAY**

For more information.

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