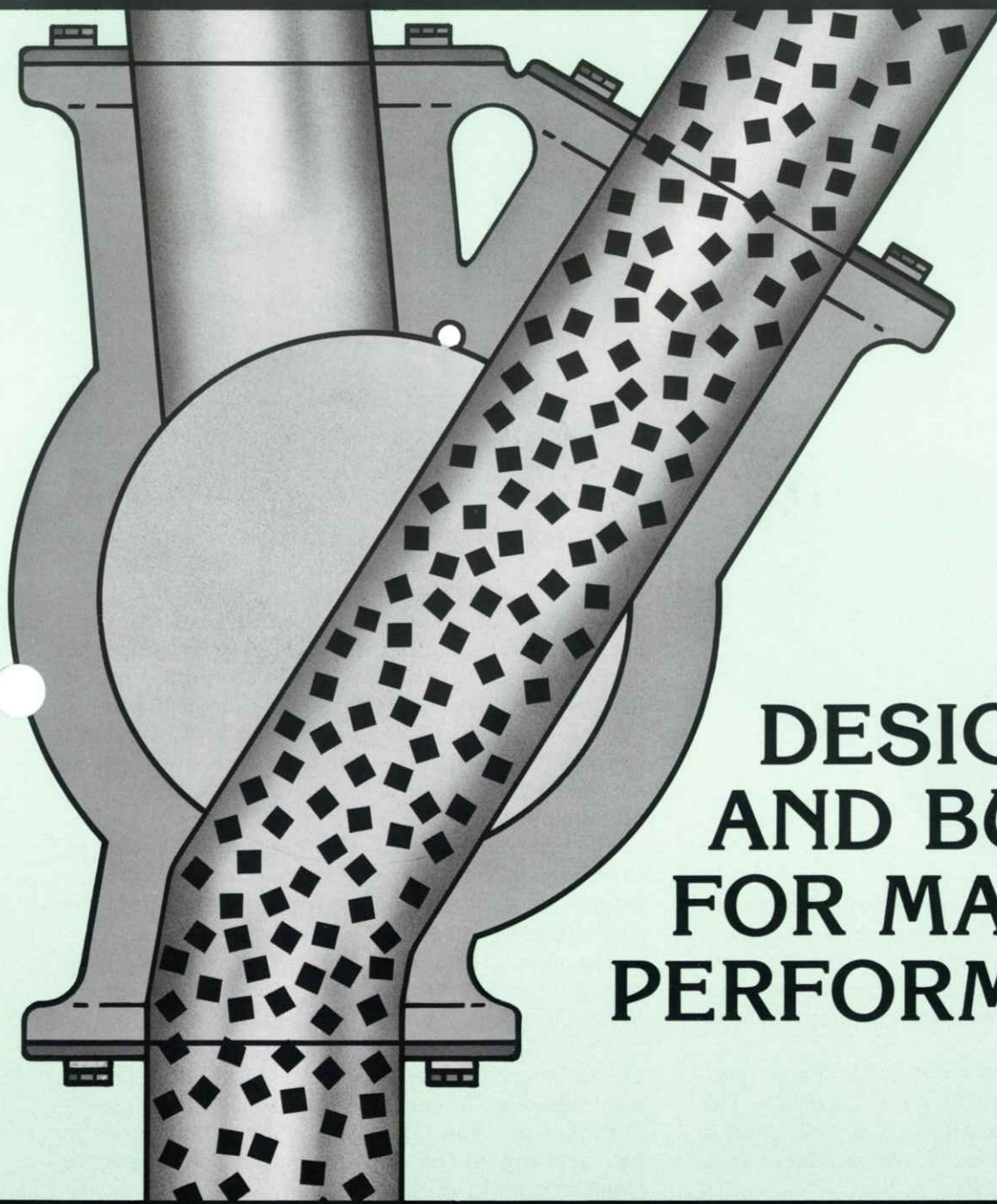
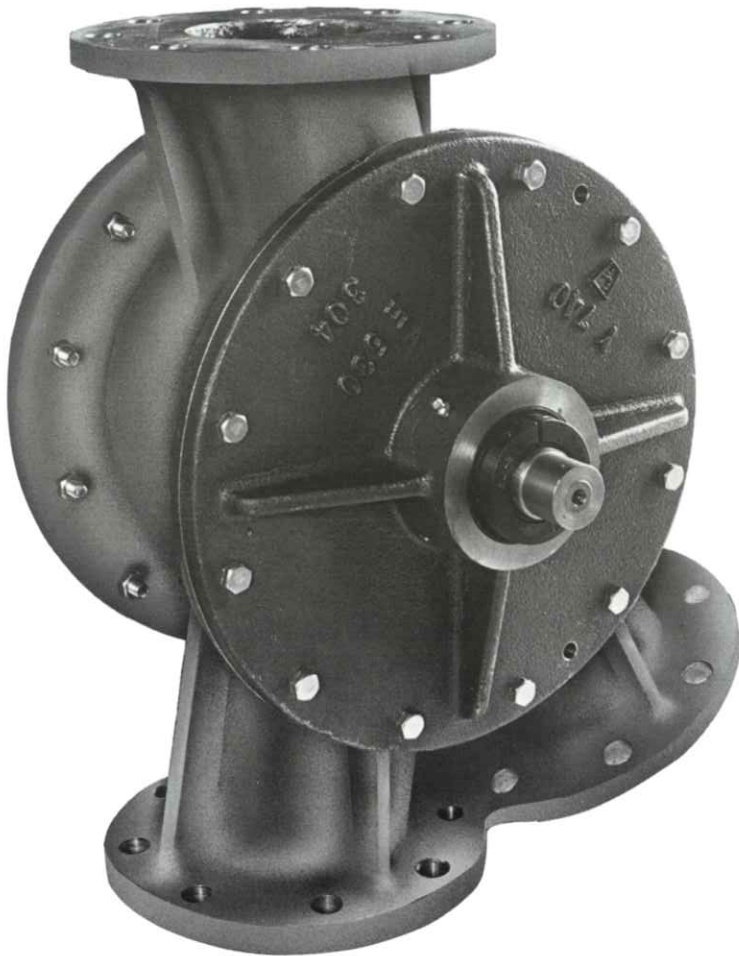


Rotary Plug Diverter Valve



**DESIGNED
AND BUILT
FOR MAXIMUM
PERFORMANCE**

Young Industries Rotary Plug



Young Industries Rotary Plug Diverter Valves are designed for applications in pneumatic or gravity fall conveying systems. They are precision constructed to provide dependable performance. They may be mounted in any position to adapt to your specific conveying needs.

The Rotary Plug Diverter Valve has been engineered to convey dry free flowing materials. The valves handle granular materials and pellets for a wide variety of applications. Some products handled by these valves include:

Chemicals	Meals	Powdered Metals
Clay	Graphite	Diatomaceous Earth
Coffee	Gypsum	Fly Ash
Detergents	Minerals/Ores	Sawdust
Dry Foods	Plastic Pellets	Soaps
Flour	Salt	Spices
Grains	Sugar	Starch

FEATURES

- Handles Granules, Cubes, Pellets, Chips, Flakes, Prills
- Rotor Only Internal Moving Part
- Precision Machined Sealing Areas
- Low Maintenance
- Positive or Negative Pressure Systems'
- Option of Automatic or Manual Operators
- Choice of Construction Materials
- Special Platings and Coatings Provided for Handling Abrasive Materials
- Easily Adaptable to Sanitary Applications
- Virtually Leakproof

The Rotary Plug Diverter Valve is designed to alternate product flow between two lines, one straight through and the other at a 30° angle. This provides you with the option to pass product from a main line through one of two lines or two lines can alternately pass product through one line. Product flow can be diverted from one line to the other at your discretion. Changing position of the rotor from one line to the other is achieved by an air/electric rotary actuator, or manual worm gear operator.

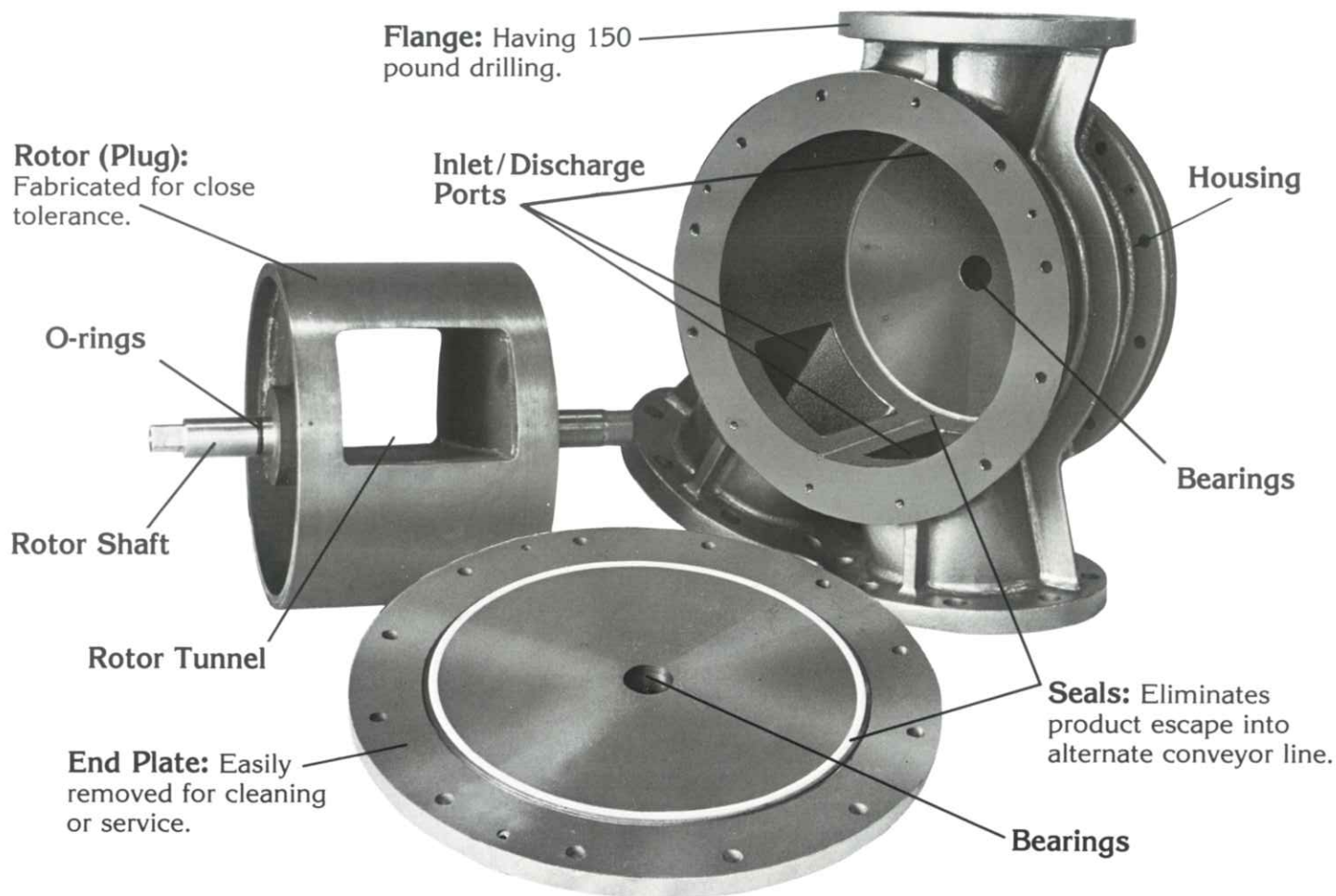
The combination of the closed rotor design, O-ring seals and close tolerance construction, provides a valve virtually leak-proof to the atmosphere and alternate line.

The closed design of the rotor creates a tunnel straight through the valve to the intended line eliminating product hang-up. Product flow through the rotor is diverted to the second line by a 150° clockwise or counter clockwise rotation. The convey lines must be purged of product prior to changing rotor position. The rotor shaft is supported by ball bearings in the end plates, providing smooth, clean operation during rotation.

NOTICE

The photographs, illustrations, drawings and descriptions contained in this publication are not intended to depict actual operating conditions or to suggest operating procedures. They are included only for the purpose of portraying the features of the machinery. The manufacturer's installation, operation and maintenance instructions and recommended safety procedures must be expressly followed during installation, operation or maintenance of the equipment.

Diverter Valves



O-ring seals are placed around the end plates sealing the sides of the rotor. Valves are precision machined to a close tolerance assuring the tightest possible seal between the rotor and the O-ring seals. To further maintain the cleanliness of the product lines, a barrier seal is placed in the housing wall between the legs. Shafts are also sealed with O-rings.

The standard Rotary Plug Diverter Valves are of cast construction in iron, stainless steel, or aluminum. Optional construction materials are available for your specific needs. The interior of the valves can be plated or coated with Electroless Nickel, Chrome, Tungsten Carbide or Teflon. Other types of platings and coatings are provided upon request.

WARNING

Some machines in this bulletin are shown with guards or covers removed for the purpose of illustration. Machines must not be operated with guards, covers or other protective devices removed or disabled.

STANDARD SPECIFICATIONS

OPERATION: Heavy-duty service to 15 PSIG, temperatures up to 250° F. Higher pressure and temperatures are available.

SIZES: Line sizes ranging from 2" to 18".

FLANGES: Standard 150 pound A.N.S.I. drilling.

CONSTRUCTION: Iron, stainless steel or aluminum. Special materials of construction are also available.

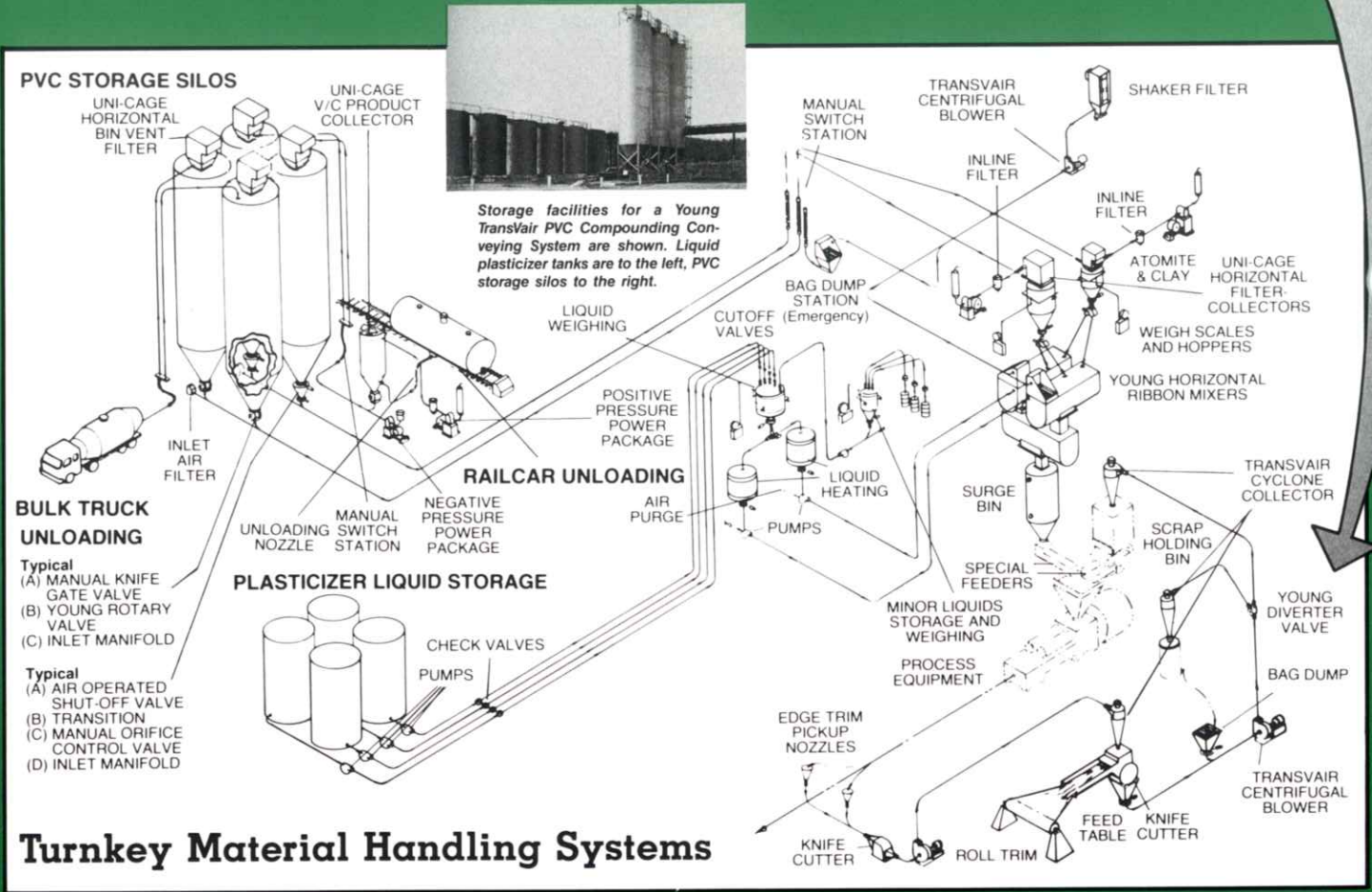
SEALING: O-rings on rotor shaft and end plate interior.

PURGE PORTS: Furnished in the housing wall. Air regulators are optional.

OPERATOR: Air Rotary Actuator; Electric Rotary Actuator; Manual, worm gear.



Typical Rotary Plug Diverter Valve as used in Young Industries' TransVair® System.



Turnkey Material Handling Systems



Muncy, Pennsylvania 17756 • Telephone (570) 546-3165