

Rotary Feeder / Discharge Valve

Ruggedly built for continuous loading and unloading under pressure or vacuum. Available in a variety of configurations/sizes.

The Mikro-Airlock is a rotary valve consisting of a cylindrical housing, a vaned rotor, and (in most cases) a drive. The rotor fits snugly into the precision machined housing, thus minimizing air or gas leakage while effectively feed or discharging the material.

The material to be moved enters the Mikro-Airlock by gravity. As the vanes rotate, appropriate quantities of material are delivered to storage or to process.

Applications

The Mikro-Airlock can be used as a discharge valve or rotary feeder for a range of applications.

As a *discharge valve*, it is widely used with pulverizers and dust collectors, such as baghouses and cyclones. It is also used to regulate flow of material discharged from blenders and mixers.

As a *feeder*, it is used to supply material to pulverizers, mixers, blenders, and pneumatic conveying systems and to control flow from a storage bin or hopper.

Precision engineered housing

The Mikro-Airlock is available in cast iron and 316 stainless steel. Interior surfaces are machined to close tolerances. The entry and exit throats



Replaceable rotor vanes are available in a variety of materials.

8 inch Mikro-Airlock with drive.

are polished to assure free flow of the material conveyed

Rotors for every application

All airlocks come with a replaceable six-vane rotor. Vane tips, also replaceable, are made of Delrin, with Teflon, rubber, 316 stainless steel, carbon steel, bronze, and polyurethane also available. The choice of material depends on temperature and chemical properties of the material handled. The Mikro-Airlock can handle temperatures up to 250°F (121°C), except for rubber and polyurethane, which can be used up to 160°F (71°C). MikroPul can provide airlocks for higher temperatures on request.

Two Sizes

Mikro-Airlocks are available in 8 and 14 inch sizes, with capacities from 435 to 1740 ft³/hr (12 to 50 m³/hr). These sizes meet most requirements.

Drives

The 14 inch model has a ½ hp motor/reducer with a chain/sprocket arrangement to drive the rotor shaft. The 8 inch model is available with either a ¼ hp motor/reducer with chain drive, or ½ hp motor with V-belt driving a reducer direct coupled to the rotor shaft.

Mikro-Airlocks are also available without drives.

NORTH AMERICAN LOCATIONS Visit our web site @ www.mikropul.com for other locations worldwide.

MikroPul Headquarters
4500 Chesapeake Dr.
Charlotte, NC 28216
Tel: 704-998-2600
Fax: 704-998-2601
Customer Service:
800-892-7278
info@mikropul.com

MikroPul Pittsburgh
2591 Wexford-Bayne Road, Suite 202
Sewickley, PA 15143
Tel: 724-934-3910
Fax: 724-934-3934
pittsburgh@mikropul.com

MikroPul Canada, Inc.
245 Matheson Blvd. E., Unit # 10
Mississauga, Ontario L4Z 3C9
Canada
Tel: 905-712-0722
Fax: 905-712-0027
info@ca.mikropul.com

MikroPul, S de RL de CV
Av. Lomas Verdes No. 480-302B
Col. Lomas Verdes
CP 53120 Naucalpan
Edo. de Mexico
Tel: 52-55-5343-8224
Fax: 52-55-5344-5081
info@mx.mikropul.com