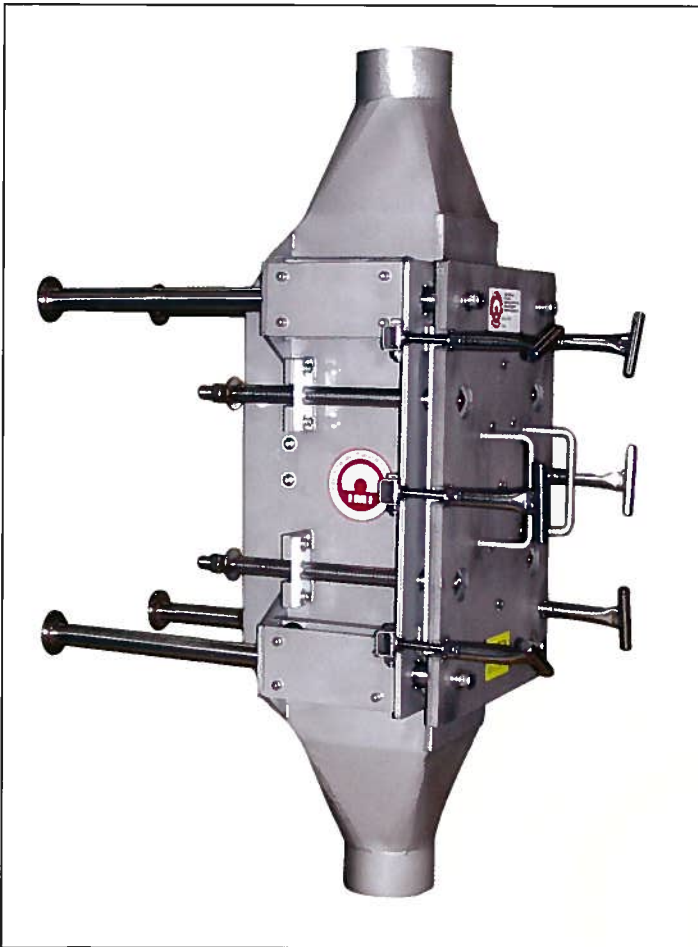


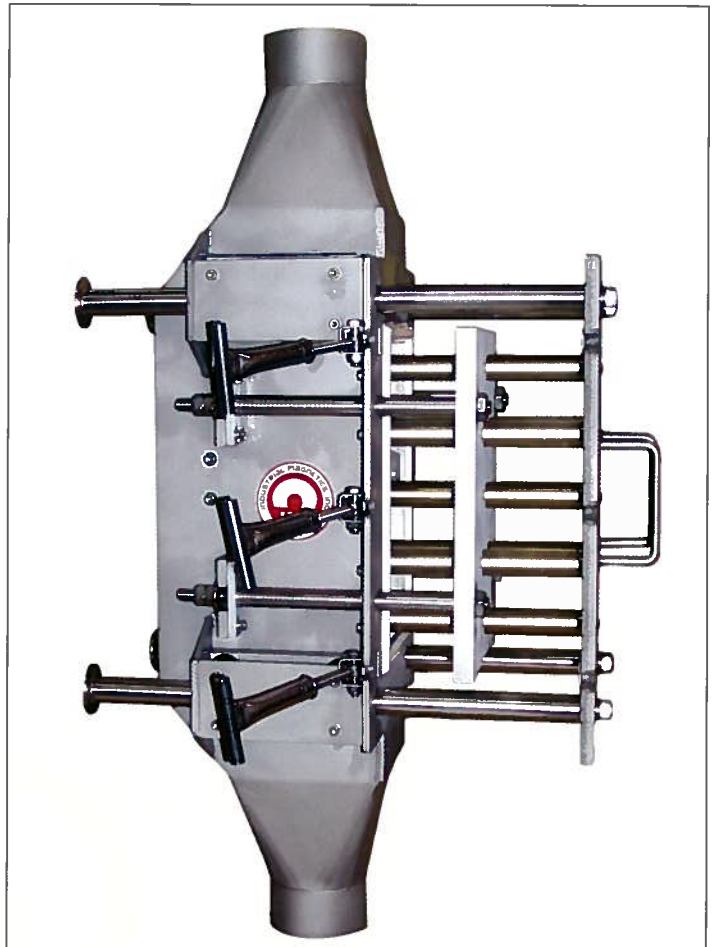
# POWDER BULK SOLIDS®

ProductExclusive

## Pneumatic Line Housing Features High Capture Rate



The pneumatic line housing in operating position



The pneumatic line housing in nonoperational cleaning position

Based on the company's drawer-in-housing platform of magnets for gravity and choke-feed applications, the pneumatic line housing (PLH) incorporates a series of 1-in.-diam, 50-MGOe rare-earth tubes on staggered centers, in contrast to the single, center-flow, and out-of-flow cartridge circuits that are often prescribed for pneumatic line systems. This configuration ensures that all material

flowing through the housing makes repeated contact with the magnets. The resulting capture rate of ferrous and weakly magnetic stainless contaminants far exceeds that of other magnetic separators that are available for this type of application.

Nedox-coated rare-earth tubes are standard. Nedox is a synergistic, self-lubricating, FDA-approved surface en-

hancement that provides protection from abrasive particulates and corrosive materials. It assists in keeping material with bridging and clogging tendencies from adhering to the magnetic tubes. These features result in a more effective magnet that is stronger and easier to clean and requires less maintenance than other products.

The PLH is designed for vertically mounted applications and comes with a catch pan for contaminants, which can then be laboratory-tested for use in locating contamination entry points in the processing stream. EZ-clean and self-clean modes are available. To perform the EZ-clean function, users loosen T-clamps and then manually open the drawer to pull the magnetic tubes through the wiper seal plate, allowing contaminants to collect in the pan. The self-clean option performs the same function by incorporating pneumatically actuated cylinders to open and close the drawer.

The PLH has been engineered to ensure that there are no line pressure drops or surges, thereby optimizing product flow and product purification while increasing capital equipment protection. Standard pipes are available in 3, 4, 5, 6, and 8-in. sizes. Other options include a food-grade finish and welds, a sanitary finish and welds,

ANSI bolt-pattern flanges, ANSI-spec flanges, custom line sizes, couplings, and cam lock fittings.

The PLH is the latest pneumatic line protection option. Incorporating a center-flow cartridge, the Bullet magnet can be used in a variety of angles and positions, including in a cart-mounted configuration. The EP tube features an out-of-flow magnetic circuit for degradable products such as noodles and for material that tends to clog and congeal. Both the Bullet and the EP tube designs feature door-mounted circuits (a clear advantage over other products in which heavy magnetic circuits must be removed for cleaning). They are available in 45-MGOe rare-earth and ceramic-grade-8 magnet material options. Finally, the 4JIT is suitable for vacuum loading systems and features an easy-to-clean clamping mechanism. It is designed exclusively with a single 50-MGOe rare-earth tube.

*Industrial Magnetics Inc. (Boyne City, MI) provides both permanent magnets and electromagnets for holding, lifting, fixturing, conveying, and magnetic separation applications. For more information, call 800-662-4638 or visit [www.magnetics.com](http://www.magnetics.com).*

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