

PM Bulkhead Union Push-to-Connect Fitting

Straight panel-through pneumatic tube connector with push-to-connect installation



Product Overview

The HOMIPNEU PM fitting is a straight bulkhead union designed to connect pneumatic tubing through a control panel or machine enclosure. Its panel-mount body maintains a direct airflow path, while push-to-connect ports allow fast tube installation and removal without special tools. Nickel-plated brass construction and an O-ring sealing structure support reliable industrial operation.

Key Features

- Bulkhead panel-mount design for secure installation.
- Straight union structure without airflow direction change.
- Push-to-connect system for fast tube connection.
- Nickel-plated brass body for durability and corrosion resistance.
- O-ring sealing supports leak-resistant pneumatic performance.
- Suitable for panel-through tube routing in compact equipment.

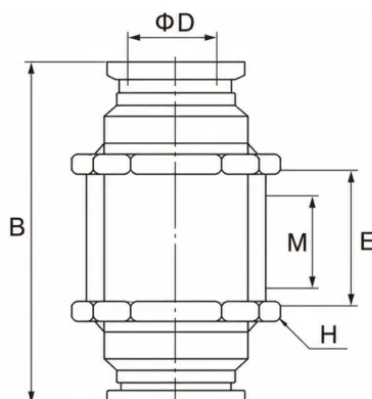
Applications

- Pneumatic control panels and electrical cabinets.
- Industrial automation and assembly machinery.
- Compressed-air distribution and organized tube routing.
- Packaging, robotics and general production equipment.

Technical Specifications

Parameter	Specification
Product Type	Pneumatic push-to-connect fitting
Structure	Straight bulkhead union
Connection	Tube to tube
Installation	Panel mount
Material	Nickel-plated brass
Seal Type	O-ring seal
Operating Fluid	Air
Working Pressure	0-1.0 MPa
Temperature Range	0-60 deg C
Applicable Tubing	PU tube and nylon tube

Dimension Drawing



Model Selection and Dimensions

Model	Tube O.D.	B	E	M	H x 2
PM-4	4	28.5	8	M12 x 1	14
PM-6	6	31.5	10	M14 x 1	17
PM-8	8	33.5	11	M16 x 1	19
PM-10	10	37	12	M20 x 1	24
PM-12	12	40	14	M22 x 1	27

All dimensional values are in millimetres. Tube O.D. indicates the outside diameter at both ports.

Installation and Operating Guidance

- Cut the pneumatic tube squarely and remove burrs, dust and surface damage before insertion.
- Insert each tube fully into the push-to-connect port until it reaches the internal stop.
- Pass the threaded bulkhead body through the prepared panel opening and tighten the locking nut evenly.
- Avoid excessive side load, sharp tube bending and mechanical stress on the fitting body.
- Pressurize the system gradually and inspect the tube connections and panel mount for leakage.
- To remove tubing, depress the release ring evenly and pull the tube straight out.

Product Function

PM fittings route pneumatic tubing straight through a panel while keeping the airflow path aligned. Compared with PLM elbow bulkhead fittings, the PM series is intended for applications that do not require a 90-degree direction change.

Maintenance and Safety Notes

- Depressurize the pneumatic circuit before installation, adjustment or tube removal.
- Keep release rings, tube ends and sealing areas clean and free from particles.
- Replace the fitting if the body, nut, release ring or sealing surface is damaged.
- Do not exceed the stated pressure and temperature limits.

Ordering Information

Specify the PM model, tube outside diameter, required quantity and preferred release-ring color. OEM and ODM services are available for tube sizes, packaging and branding, subject to production confirmation.

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