

PMF Pneumatic Bulkhead Female Straight Fitting

Panel-mount push-to-connect fitting with female threaded connection



Product Overview

The HOMIPNEU PMF fitting is a bulkhead female straight push-to-connect connector designed to route pneumatic tubing through panels while maintaining a secure, organized and leak-resistant connection. Its one-touch tube connection supports fast installation and maintenance, while the female threaded port and bulkhead mounting thread provide a practical interface for control cabinets, machinery panels and enclosed pneumatic systems.

Item	Specification	Item	Specification
Connection	Tube x Female Thread	Operating Fluid	Air, Vacuum, Water
Tube O.D.	4-12 mm	Body Material	Brass
Thread Options	M5, R1/8, R1/4, R3/8, R1/2	Operating Pressure	0-0.9 MPa
Applicable Tube	PU Tube, Nylon Tube	Temperature	0-60 C

Key Features

- Push-to-connect one-touch tubing installation without special tools.
- Bulkhead mounting structure for secure passage through panels and enclosures.
- Female threaded connection for organized and compact air routing.
- O-ring sealing and stainless-steel locking claw for dependable retention.

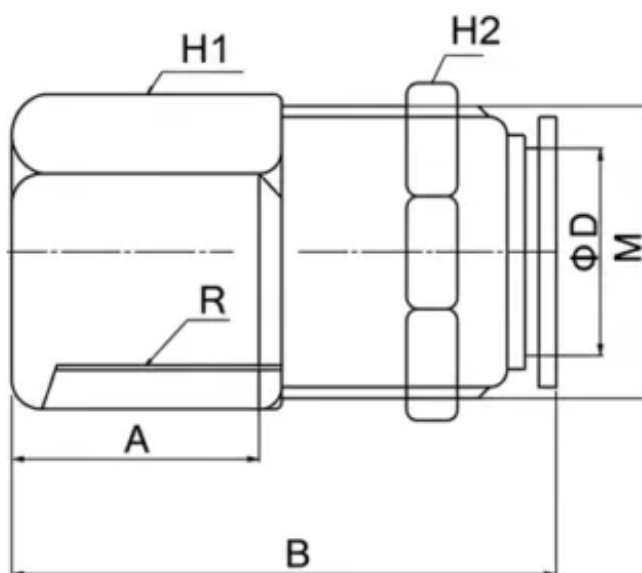
Typical Applications

- Pneumatic control panels and machine enclosures.
- Industrial automation and air distribution systems.
- Robotics, assembly lines and packaging equipment.
- Panel-mounted tubing routes requiring secure, sealed connections.

Technical Specifications

Parameter	Specification
Operating Fluid	Air, vacuum and water (non-freezing)
Body Material	Brass
Type	Bulkhead female straight push-to-connect fitting
Proof Pressure	1.32 MPa (13.5 kgf/cm ²)
Maximum Operating Pressure	0-0.9 MPa (0-9.2 kgf/cm ²)
Ambient and Fluid Temperature	0-60 C
Lock Claw	Stainless steel (SUS)
Applicable Tubing	PU tube and nylon tube

Dimension Drawing



Symbols: D = tube outside diameter; R = female thread; A = thread depth; B = overall length; H1/H2 = hex widths; M = panel mounting thread.

Model Selection and Dimensions

Model	D	R	A	B	H1	H2	M
PMF4-M5	4	M5	5.5	24	14	14	M12x1
PMF4-01	4	R1/8	8	24	14	14	M12x1
PMF4-02	4	R1/4	9.5	27.5	15	14	M12x1
PMF6-M5	6	M5	5.5	25.5	15	17	M14x1
PMF6-01	6	R1/8	8	25.5	15	17	M14x1
PMF6-02	6	R1/4	9.5	29.5	15	17	M14x1
PMF6-03	6	R3/8	10.5	30	19	17	M14x1
PMF6-04	6	R1/2	11.5	31	24	17	M14x1
PMF8-01	8	R1/8	8	26	17	19	M16x1
PMF8-02	8	R1/4	9.5	26	17	19	M16x1
PMF8-03	8	R3/8	10.5	30.5	19	19	M16x1
PMF8-04	8	R1/2	11.5	31.5	24	19	M16x1
PMF10-01	10	R1/8	8	27.5	21	24	M20x1
PMF10-02	10	R1/4	9.5	27.5	21	24	M20x1
PMF10-03	10	R3/8	10.5	28	21	24	M20x1
PMF10-04	10	R1/2	11.5	29	24	24	M20x1
PMF12-01	12	R1/8	8	28	24	27	M22x1
PMF12-02	12	R1/4	9.5	29	24	27	M22x1
PMF12-03	12	R3/8	10.5	30	24	27	M22x1
PMF12-04	12	R1/2	10.5	33.5	24	27	M22x1

All dimensional values are in millimetres unless otherwise stated.

Installation and Operating Guidance

- Select the PMF model matching the tube outside diameter, female thread and panel mounting thread.
- Prepare a clean panel opening appropriate for the mounting thread M dimension.
- Secure the fitting through the panel using the supplied nut and avoid excessive tightening torque.
- Cut tubing squarely, remove burrs and push the tube fully into the release ring.
- Use suitable thread sealant where required, keeping sealant away from the airflow passage.
- Pressurize gradually and inspect the tubing, thread and panel mounting area for leakage.
- To remove tubing, depress the release ring evenly and withdraw the tube straight out.

Ordering Information

Specify the complete PMF model, tube outside diameter, female thread, panel mounting thread and quantity. OEM and ODM options may include alternative thread standards, tube sizes, sealing materials, packaging and branding, subject to production confirmation.

Source note: Product images, specifications, model data and the dimension drawing are based on the HOMIPNEU PMF product page. The information is provided as a general technical reference. Final dimensions, materials, thread standards and production details should be confirmed before ordering.

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