

PM Pneumatic Bulkhead Union



Push-to-connect straight tube connector for secure panel-through pneumatic routing.

The HOMIPNEU PM Series is a bulkhead straight union designed to connect two equal-size air tubes through a panel, enclosure, or machine wall. Its push-in structure enables fast tool-free installation, while the locking nut secures the fitting to the panel and the internal O-ring supports reliable sealing.

Panel-through connection Routes tubing neatly through walls and enclosures.	Fast push-in installation Insert the tube directly without special tools.	Secure and leak-resistant Stainless locking claw and O-ring sealing.
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Typical Applications

Pneumatic control panels	Industrial automation systems
Air distribution pipelines	Machinery and equipment
Robotics and assembly lines	Compact equipment layouts

Available sizes: PM-4, PM-6, PM-8, PM-10 and PM-12 | Tube O.D.: 4 mm to 12 mm

Technical Specifications

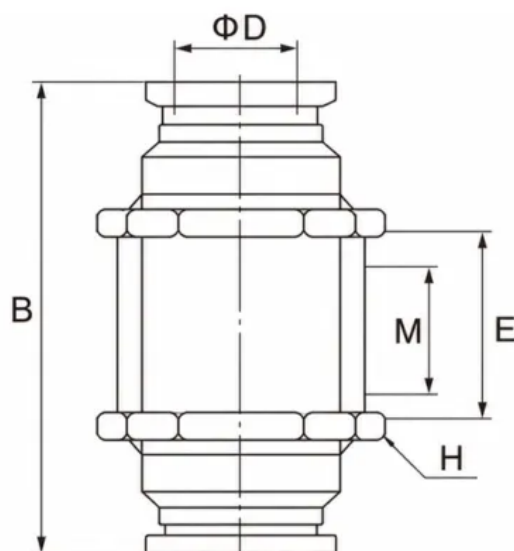
Operating fluid	Air, vacuum, water (non-freezing)
Body material	Brass
Proof pressure	1.32 MPa (13.5 kgf/cm ²)
Operating pressure	0 to 0.9 MPa (0 to 9.2 kgf/cm ²)
Ambient and fluid temperature	0 to 60°C
Lock claw	Stainless steel (SUS)
Applicable tubing	PU tube and nylon tube
Connection type	Equal tube-to-tube bulkhead union
Mounting method	Panel mounting with locking nut

Construction and Functional Advantages

Bulkhead straight union structure	Connects tubing on both sides of a panel while keeping the routing organized.
Push-to-connect mechanism	Allows rapid tube insertion and removal, reducing assembly time.
Locking nut for panel mounting	Provides stable mechanical retention on machine walls and control cabinets.
O-ring sealing	Supports an airtight connection when compatible tubing is correctly inserted.
Durable internal grip	The stainless-steel lock claw helps resist accidental tube pull-out.
Compact equal-union design	Maintains the same tube size on both sides for simple line continuation.

Dimensions and Model Selection

All dimensions are in millimeters. Verify panel thickness, mounting clearance, and tube outside diameter before ordering.



Model	Tube O.D. ΦD	B	E	M	H (hex)
PM-4	4	28.5	8	M12 $\times$ 1	14
PM-6	6	31.5	10	M14 $\times$ 1	17
PM-8	8	33.5	11	M16 $\times$ 1	19
PM-10	10	37	12	M20 $\times$ 1	24
PM-12	12	40	14	M22 $\times$ 1	27

Selection Notes

- Select the model according to the outside diameter of the tube.
- Both push-in ports use the same tube size.
- Confirm that the panel opening and surrounding clearance suit the mounting thread and hex size.
- Use clean, square-cut tubing to support proper sealing and retention.
- Do not use frozen water or operate outside the specified pressure and temperature limits.

Installation, Ordering and Support

1	Prepare the panel	Create a suitable panel opening and ensure adequate clearance for the nut and wrench.
2	Mount the fitting	Pass the bulkhead body through the panel and tighten the locking nut securely without over-tightening.
3	Prepare the tube	Cut PU or nylon tubing squarely and remove burrs, dust, and deformation.
4	Insert the tube	Push the tube fully into each connector until it reaches the internal stop.
5	Check the system	Apply pressure gradually and inspect for leakage before full operation.
6	Remove tubing	Depressurize the system, press the release ring evenly, and pull the tube straight out.

Ordering Information

Series	Tube size code	Example
PM	4 / 6 / 8 / 10 / 12	PM-8 = 8 mm equal bulkhead union

OEM and ODM Support

HOMIPNEU supports OEM and ODM projects for tube size, material, sealing configuration, packaging, labeling and brand customization. Contact the sales team with your operating medium, pressure, temperature, tube specification, panel details and expected annual quantity.

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Notice: Product appearance and dimensions may be updated without prior notice. Confirm the latest drawing and operating conditions before final design approval.