

# PKB Pneumatic 5 Way Male Thread Fitting

Push-to-connect multi-branch connector for compact compressed-air distribution



## Product Overview

The HOMIPNEU PKB fitting is a five-way male-thread push-to-connect connector for multi-direction compressed-air distribution. It combines one threaded supply connection, one main tube port and three branch tube ports in a compact body, reducing the number of separate tees and manifolds required in complex pneumatic layouts. Push-in connections support fast installation, while the metal-thread section and engineering-plastic body provide a practical combination of sealing performance, durability and low weight.

| Item            | Specification                 | Item               | Specification |
|-----------------|-------------------------------|--------------------|---------------|
| Connection      | Male thread + four tube ports | Operating Fluid    | Air           |
| Tube O.D.       | 4-12 mm                       | Proof Pressure     | 1.32 MPa      |
| Thread Options  | 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

- Five-way multi-branch structure for distributing air in several directions.
- One-touch push-in ports allow quick tube installation without special tools.
- Central male threaded connection simplifies direct mounting to manifolds and equipment.
- Nickel-plated brass and engineering-plastic construction support reliable sealing and corrosion resistance.

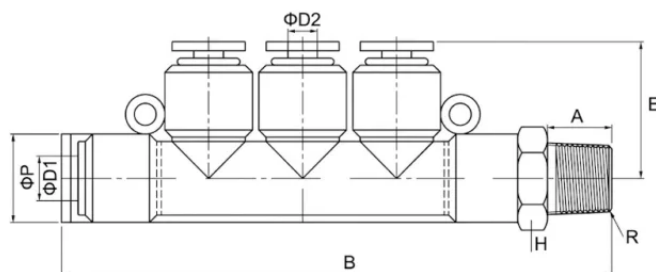
## Typical Applications

- Pneumatic automation systems and multi-branch air circuits.
- Air distribution manifolds and compact equipment layouts.
- Industrial machinery, robotics and assembly lines.
- Systems requiring one threaded supply point and multiple tube outlets.

## Technical Specifications

| Parameter                     | Specification                                                   |
|-------------------------------|-----------------------------------------------------------------|
| Operating Fluid               | Air                                                             |
| Type                          | 5-way male thread push-to-connect pneumatic fitting             |
| Proof Pressure                | 1.32 MPa (13.5 kgf/cm <sup>2</sup> )                            |
| Maximum Operating Pressure    | 0-0.9 MPa (0-9.2 kgf/cm <sup>2</sup> )                          |
| Ambient and Fluid Temperature | 0-60 C                                                          |
| Applicable Tubing             | PU tube and nylon tube                                          |
| Connection                    | One male thread, one main tube port and three branch tube ports |

## Dimension Drawing



**Symbols:** D1 = main tube O.D.; D2 = branch tube O.D.; B = overall length; E = overall height; A = thread length; R = male thread; P = port diameter; H = hex width.

## Model Selection and Dimensions

| Model       | D1 | D2 x 3 | B     | E    | A  | R    | P x 4 | H  |
|-------------|----|--------|-------|------|----|------|-------|----|
| PKB6-4-01   | 6  | 4      | 72.5  | 19   | 7  | R1/8 | 13    | 12 |
| PKB8-6-01   | 8  | 6      | 82    | 21.5 | 7  | R1/8 | 15    | 14 |
| PKB8-6-02   | 8  | 6      | 83    | 21.5 | 8  | R1/4 | 15    | 14 |
| PKB10-6-03  | 10 | 6      | 95    | 25   | 9  | R3/8 | 18.5  | 17 |
| PKB10-8-03  | 10 | 8      | 95    | 25   | 9  | R3/8 | 18.5  | 17 |
| PKB12-8-04  | 12 | 8      | 109   | 26.5 | 10 | R1/2 | 21    | 21 |
| PKB12-10-04 | 12 | 10     | 109   | 27.5 | 10 | R1/2 | 21    | 21 |
| PKB10-6-02  | 10 | 6      | 94    | 25   | 8  | R1/4 | 18.5  | 17 |
| PKB10-8-02  | 10 | 8      | 94    | 25   | 8  | R1/4 | 18.5  | 17 |
| PKB12-8-03  | 12 | 8      | 107.5 | 26.5 | 9  | R3/8 | 21    | 19 |
| PKB12-10-01 | 12 | 10     | 107.5 | 27.5 | 9  | R3/8 | 21    | 19 |

All dimensional values are in millimetres unless otherwise stated.

## Installation and Operating Guidance

- Confirm the main tube size, branch tube size and thread type match the selected PKB model.
- Cut tubing squarely and remove burrs, dust or surface damage before insertion.
- Push each tube fully into the release ring until it reaches the internal stop.
- Apply suitable thread sealant when required, keeping sealant out of the airflow passage.
- Tighten the male thread using the hexagonal section; do not twist the plastic body directly.
- Pressurize gradually after installation and inspect all ports for leakage.
- For tube removal, depress the release ring evenly and pull the tube straight out.

## Selection and Ordering Notes

Select the model according to the main tube outside diameter, three branch tube outside diameters and male-thread size. Specify the complete model number and required quantity when ordering. OEM and ODM services may include alternative tube sizes, thread standards, sealing materials, packaging and branding, subject to production confirmation.

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

### Contact Information

**Wenzhou Hongmi Pneumatic Co., Ltd.**

Address: Room 501, Xingnan Village, Hongqiao Town, Yueqing City, Zhejiang, China

Email: [vivilian@homipneu.com](mailto:vivilian@homipneu.com)

Phone / WhatsApp: +86 136 0580 6063

Website: <https://homipneu.com>