

PKD 5-Way Reducing Push-to-Connect Pneumatic Fitting

Threaded five-way reducer for multi-branch airflow distribution and tube-size conversion



Product Overview

The HOMIPNEU PKD fitting is a threaded five-way reducer designed to distribute compressed air through four push-to-connect tube branches from one threaded equipment connection. Its compact body combines multi-line air distribution with tube-size selection, reducing the need for separate connectors and helping keep pneumatic layouts organized. The series is suitable for PU and nylon tubing in automation equipment, manifolds, control panels and industrial machinery.

Key Features

- Five-way multi-branch design distributes one threaded air supply to four tube lines.
- Push-to-connect ports support fast, tool-free tube installation and removal.
- Threaded male connection provides direct mounting to valves, manifolds or equipment ports.
- Compact reducer structure supports organized tube routing and efficient use of installation space.
- Available in multiple tube and thread combinations from 4 mm to 12 mm.

Applications

- Pneumatic control systems and multi-branch compressed-air distribution.
- Industrial automation machinery, packaging equipment and assembly systems.
- Manifolds and panels requiring one threaded inlet with multiple tube outlets.
- Compact pneumatic layouts requiring centralized airflow routing.

Product Function

The male threaded end connects to the air source or equipment port, while four push-in branches distribute airflow to separate pneumatic lines. The integrated structure simplifies multi-line piping and supports quick tube maintenance.

Technical Specifications

Parameter	Specification
Product Type	Five-way reducing push-to-connect pneumatic fitting
Structure	Threaded five-way reducer
Connection	Tube-to-thread / multi-branch tube connection
Branch Type	Four push-to-connect outlets with one threaded inlet
Installation	Push-to-connect plus threaded mounting
Body Material	Engineering plastic with nickel-plated brass thread section
Seal Type	O-ring sealing structure
Operating Fluid	Air
Working Pressure	0-1.0 MPa
Temperature Range	0-60 deg C
Applicable Tubing	PU tube and nylon tube

Product Structure and Size Range

- Tube outside diameters: 4 mm, 6 mm, 8 mm, 10 mm and 12 mm.
- Thread options: M5, R1/8, R1/4, R3/8 and R1/2.
- Four equal push-to-connect tube ports are arranged along the five-way body.
- The male threaded end mounts directly to a valve, cylinder, manifold or machine port.

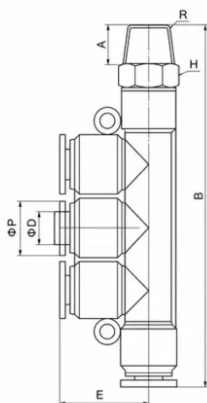
Selection Guidance

- Select the tube outside diameter and thread size according to the equipment port and branch lines.
- Confirm available installation clearance for the overall length B and branch projection E.
- Verify the operating pressure, temperature and tubing material before ordering.
- For custom tube combinations or thread standards, confirm dimensional compatibility before production.

Ordering Information

Specify the complete PKD model, tube outside diameter, thread type, required quantity and preferred release-ring color. OEM and ODM services are available for tube combinations, thread standards, packaging and branding, subject to production confirmation.

Dimension Drawing



Symbols: D = tube O.D.; B = overall length; E = branch projection; P = release-ring outside diameter; A = threaded-end length; R = male thread; H = hex width.

Model Selection and Dimensions

Model	D x 4	B	E	P x 4	A	R	H
PKD4-M5	4	61.5	17.5	11	3.5	M5	10
PKD4-01	4	65	17.5	11	7	R1/8	10
PKD4-02	4	66	17.5	11	8	R1/4	14
PKD6-M5	6	69	19.5	13	3.5	M5	12
PKD6-01	6	72.5	19.5	13	7	R1/8	12
PKD6-02	6	73.5	19.5	13	8	R1/4	14
PKD6-03	6	74.5	19.5	13	9	R3/8	17
PKD6-04	6	76	19.5	13	10	R1/2	21
PKD8-01	8	82	22.5	15	7	R1/8	14
PKD8-02	8	83	22.5	15	8	R1/4	14
PKD8-03	8	84	22.5	15	9	R3/8	17
PKD8-04	8	85.5	22.5	15	10	R1/2	21
PKD10-01	10	93	24.5	18.5	7	R1/8	17
PKD10-02	10	94	24.5	18.5	8	R1/4	17
PKD10-03	10	95	24.5	18.5	9	R3/8	17
PKD10-04	10	96.5	24.5	18.5	10	R1/2	21
PKD12-01	12	105.5	27.5	21	7	R1/8	19
PKD12-02	12	106.5	27.5	21	8	R1/4	19
PKD12-03	12	107.5	27.5	21	9	R3/8	19
PKD12-04	12	109	27.5	21	10	R1/2	21

All dimensional values are in millimetres unless otherwise stated.

Installation and Operating Guidance

- Confirm the tube outside diameter and male thread size before selecting the PKD model.
- Cut tubing squarely and remove burrs, dust and surface damage before insertion.
- Push every tube fully through the release ring until it reaches the internal stop.
- Apply compatible thread sealant only where required and keep sealant away from the airflow passage.
- Tighten the threaded section using the metal hex portion; do not twist the engineering-plastic body directly.
- Pressurize the system gradually and inspect every tube and threaded connection for leakage.
- To remove tubing, depress the release ring evenly and pull the tube straight out.

Maintenance and Safety Notes

- Depressurize the pneumatic circuit before installation, adjustment or tube removal.
- Keep tube ends, release rings and sealing surfaces clean and free from particles.
- Avoid excessive side load or sharp tube bending immediately next to the fitting.
- Do not exceed the specified pressure and temperature limits.
- Replace the fitting if the body, thread, release ring or sealing area is damaged.

Recommended Applications

- Automation equipment with multiple pneumatic branch lines.
- Control panels, manifolds and machine air-distribution circuits.
- Packaging, assembly, robotics and material-handling machinery.
- Compact systems requiring centralized distribution from one threaded source.

OEM and ODM Support

HOMIPNEU supports OEM and ODM requirements for tube-size combinations, thread standards, sealing materials, release-ring colors, private labeling, packaging and bulk-order documentation. Final production details should be confirmed according to the intended application.

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