

PC Male Thread Straight Push-to-Connect Pneumatic Fitting

Push-to-connect male straight connector for direct tube-to-thread installation



Product Overview

The HOMIPNEU PC fitting is a male thread straight push-to-connect connector designed for direct tube-to-thread connection in pneumatic systems. Its straight-through structure connects pneumatic tubing directly to valves, cylinders, manifolds and other threaded equipment without changing airflow direction. The nickel-plated brass body provides corrosion resistance and durability, while the internal collet and sealing system support fast installation and reliable sealing.

Item	Specification	Item	Specification
Connection	Tube × Male Thread	Body Material	Nickel-Plated Brass
Tube O.D.	4-16 mm	Working Pressure	0-1.0 MPa
Thread Options	M5 to R3/4	Operating Fluid	Air / Vacuum / Water
Applicable Tube	PU Tube / Nylon Tube	Temperature	0-60°C

Key Features

- Straight-through tube-to-thread connection without changing airflow direction.
- Male threaded port for direct installation on valves, cylinders and manifolds.
- Push-to-connect tube installation for fast, tool-free assembly.
- Nickel-plated brass body with stainless steel gripping claws for durability.

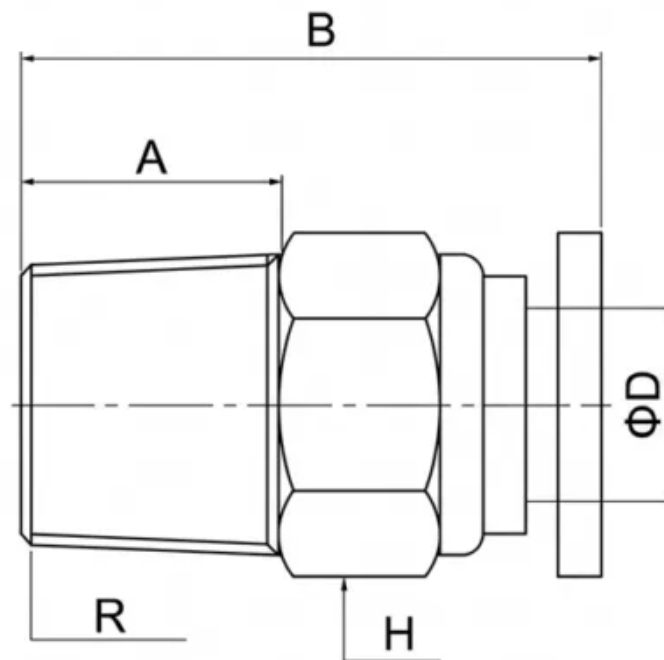
Typical Applications

- Pneumatic automation systems and direct equipment connections.
- Air compressor pipelines and control manifolds.
- Industrial machinery, valves and pneumatic cylinders.
- Vacuum, air and compatible water circuits without freezing.

Technical Specifications

Parameter	Specification
Product Type	Pneumatic fitting
Structure	Male thread straight
Connection	Tube to thread
Installation	Push-to-connect
Thread Type	M5 / R1/8 / R1/4 / R3/8 / R1/2 / R3/4
Material	Nickel-plated brass
Seal Type	O-ring / PTFE sealing
Operating Fluid	Air / vacuum / water (no freezing)
Working Pressure	0-1.0 MPa
Temperature Range	0-60°C
Lock Claw	Stainless steel (SUS)
Applicable Tubing	PU tube / nylon tube

Dimension Drawing



Symbols: D = tube O.D.; R = male thread; A = threaded-end length; B = overall length; H = hex width.

Model Selection and Dimensions

Model	Tube O.D. D	Thread R	A	B	H
PC4-M5	4	M5	3.5	18.5	10
PC4-01	4	R1/8	7	19.5	10
PC4-02	4	R1/4	8	19	14
PC6-M5	6	M5	3.5	20	12
PC6-01	6	R1/8	7	21	12
PC6-02	6	R1/4	8	20	14
PC6-03	6	R3/8	9	21	17
PC6-04	6	R1/2	10	22	21
PC8-01	8	R1/8	7	23.5	14
PC8-02	8	R1/4	8	22.5	14
PC8-03	8	R3/8	9	21	17
PC8-04	8	R1/2	10	22	21
PC10-01	10	R1/8	7	25.5	17
PC10-02	10	R1/4	8	26.5	17
PC10-03	10	R3/8	9	25	17
PC10-04	10	R1/2	10	23	21
PC12-01	12	R1/8	7	27	19
PC12-02	12	R1/4	8	28	19
PC12-03	12	R3/8	9	26.5	19
PC12-04	12	R1/2	10	24	21
PC14-02	14	R1/4	8	29.5	21
PC14-03	14	R3/8	9	30.5	21
PC14-04	14	R1/2	10	28	21
PC16-02	16	R1/4	8	31.5	24
PC16-03	16	R3/8	9	32.5	24
PC16-04	16	R1/2	10	29.5	24
PC16-06	16	R3/4	12	29	27

All dimensional values are in millimetres unless otherwise stated.

Installation and Operating Guidance

- Confirm the tube outside diameter and thread size match the selected PC model.
- Cut tubing squarely and remove burrs, dust or surface damage before insertion.
- Push the tube fully into the release ring until it reaches the internal stop.
- Use suitable thread sealant when required and keep sealant outside the airflow passage.
- Tighten the fitting using the hexagonal body; do not apply torque to the release ring.
- Pressurize gradually after installation and check the tube and thread connections for leakage.
- For tube removal, depress the release ring evenly and pull the tube straight out.

Ordering Information

Specify the model number, tube outside diameter, male thread size and quantity when ordering. OEM and ODM options may include alternative thread standards, tube sizes, sealing components, release-ring colors, packaging and branding, subject to production confirmation.

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

Phone / WhatsApp: +86 136 0580 6063

Website: <https://homipneu.com>