

PC Series Push In Pneumatic Fitting Straight Connector

Push-to-connect straight pneumatic connector for tube-to-thread air line connection.



PC pneumatic straight fitting series are push-to-connect air fittings designed for fast and secure connection of pneumatic tubes in compressed air systems. The one-touch installation design allows tubing to be connected and disconnected without tools, improving assembly efficiency and reducing maintenance time.

Key Features

Feature	Description
One-touch installation	Push-in tube connection allows fast assembly without tools.
Leak-proof sealing	Internal O-ring structure supports stable sealing for compressed air circuits.
Tube-to-thread connection	Straight connector design for compact, direct tube-to-port installation.
Durable construction	Brass body with engineering plastic release ring and stainless steel lock claw.
OEM and ODM support	Customization available for tube size, thread type, sealing material, and branding.

The PC straight fitting series is suitable for pneumatic tubing systems that require fast installation, leak-free performance, and reliable tube-to-thread connection.

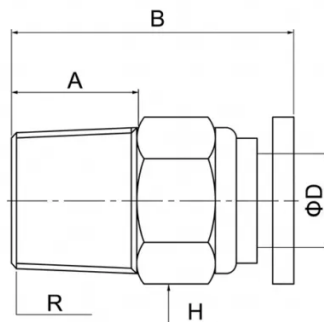
Technical Specifications

Item	Specification
Operating Fluid	Air, vacuum, water (no freezing)
Body Material	Brass
Type	Push-to-connect pneumatic fitting
Proof Pressure	1.32 MPa (13.5 kgf/cm ²)
Max. Operating Pressure	0-0.9 MPa (0-9.2 kgf/cm ²)
Ambient and Fluid Temperature	0-60 deg C
Lock Claw	Stainless steel (SUS)
Applicable Tubing	PU tube and nylon tube

Connection and Size Summary

Item	Details
Connection Type	Tube to male thread
Tube O.D. Range	4, 6, 8, 10, 12, 14 and 16 mm
Thread Options	M5, R1/8, R1/4, R3/8, R1/2 and R3/4
Typical Use	Compressed air distribution, pneumatic control and machine automation

Dimension Drawing



Dimension symbols: D = tube outside diameter; R = male thread; A and B = length dimensions; H = hex width. All dimensions are in mm unless otherwise specified.

Model Selection and Dimensions

Model	D	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

Selection note: choose the model according to tube outside diameter, thread type and available installation space. Confirm operating fluid, pressure and temperature before use. Final production dimensions and thread standards should be confirmed before ordering.

Installation and Operating Guidance

- Confirm that the tube outside diameter and male thread size match the selected PC model.
- Cut tubing squarely and remove burrs, dust, scratches or deformation from the insertion end.
- Push the tube fully into the release ring until it reaches the internal stop, then pull gently to confirm retention.
- Apply suitable thread sealant where required, keeping excess sealant away from the air passage.
- Tighten the fitting through the hexagonal body section; do not load the release ring or tubing during tightening.
- Route tubing without excessive bending, tension or side load near the fitting.
- Pressurize gradually after assembly and inspect both the tube and threaded connection for leakage.
- Depressurize the system before removal; press the release ring evenly and pull the tube straight out.

Applications

- Pneumatic automation systems and compressed-air circuits.
- Air compressors, industrial machinery and control panels.
- Robotics, assembly lines and packaging equipment.
- General tube-to-port connections requiring quick installation.



Ordering Information

Ordering Item	Information to Confirm
Model	Complete PC series model code
Tube Size	Tube outside diameter in millimetres
Thread	M5 or required tapered pipe thread
Application	Working fluid, pressure and temperature
Customization	Thread type, tube size, sealing material, packaging and branding

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

Contact Information

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