

PCF Female Thread Straight Push-to-Connect Pneumatic Fitting



Product Overview

PCF pneumatic fittings are female thread straight push-to-connect connectors designed for direct tube-to-thread connection in pneumatic systems. The straight-through structure and internal threaded port connect pneumatic tubing to male-threaded valves, cylinders, manifolds, and other equipment without changing airflow direction.

Push-to-connect installation enables fast tube assembly without special tools. Nickel-plated brass construction provides mechanical strength and corrosion resistance, while the O-ring sealing structure supports reliable, leak-resistant service. OEM and ODM options are available for tube size, thread type, and branding requirements.

Key Features

- Straight-through tube-to-thread connection for compact inline installations.
- Female threaded port for direct connection to male-threaded pneumatic equipment.
- Push-to-connect tube installation without special tools.
- O-ring sealing structure for reliable leak prevention.
- Nickel-plated brass body for strength and corrosion resistance.
- Compact layout supports efficient tube routing in confined equipment spaces.

Technical Specifications

Parameter	Specification
Product Type	Pneumatic Fitting
Structure	Female Thread Straight
Connection	Tube to Thread
Installation	Push-to-Connect
Thread Type	M5 / R1/8 / R1/4 / R3/8 / R1/2
Material	Nickel-Plated Brass
Seal Type	O-Ring Seal
Operating Fluid	Air / Vacuum / Water (No Freezing)
Proof Pressure	1.32 MPa
Working Pressure	0 - 0.9 MPa
Temperature Range	0 - 60°C
Lock Claw	Stainless Steel (SUS)
Applicable Tubing	PU / Nylon Tube

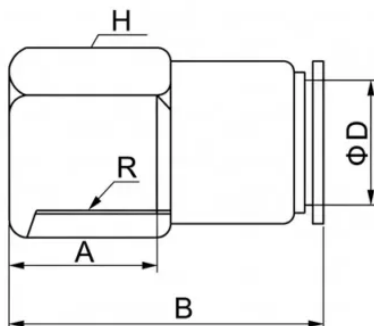
Applications

- Pneumatic automation systems requiring direct tube-to-thread connection.
- Valves, cylinders, manifolds, and air preparation equipment with male-threaded ports.
- Air compressor pipelines and machinery requiring stable inline airflow transmission.
- Control cabinets and compact installations where efficient tube routing is important.
- Air and vacuum systems using compatible PU or nylon tubing.

Product Function

The PCF fitting connects pneumatic tubing directly to a male-threaded port while maintaining a straight airflow path. Compared with a PC male straight fitting, the PCF uses an internal thread; compared with a PMF bulkhead female straight fitting, the PCF is intended for standard inline installation without panel mounting.

Dimensions and Model Selection



Model	Tube O.D.	R	A	B	H
PCF4-M5	4	M5	5.5	19.5	10
PCF4-01	4	R1/8	8	22	12
PCF4-02	4	R1/4	9.5	23.5	15
PCF6-M5	6	M5	5.5	20.5	12
PCF6-01	6	R1/8	8	23.5	12
PCF6-02	6	R1/4	9.5	25	15
PCF6-03	6	R3/8	10.5	26	19
PCF6-04	6	R1/2	11.5	27	24
PCF8-01	8	R1/8	8	24	14
PCF8-02	8	R1/4	9.5	25.5	15
PCF8-03	8	R3/8	10.5	26.5	19
PCF8-04	8	R1/2	11.5	27.5	24
PCF10-01	10	R1/8	8	25	17
PCF10-02	10	R1/4	9.5	27	17
PCF10-03	10	R3/8	10.5	28	19
PCF10-04	10	R1/2	11.5	29	24
PCF12-01	12	R1/8	8	27	19
PCF12-02	12	R1/4	9.5	28.5	19
PCF12-03	12	R3/8	10.5	30	19
PCF12-04	12	R1/2	10.5	31	24

Ordering and Installation Notes

- Select the model according to tube outside diameter and the required female thread size.
- Cut tubing squarely, remove burrs, and insert the tube fully into the release sleeve.
- Verify operating pressure, temperature, fluid compatibility, and thread sealing before use.

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>