

PLF Pneumatic Female 90 Degree Elbow Fitting

Push-to-connect connector for compact tube-to-female-thread pneumatic connections



Product Overview

PLF pneumatic fittings are 90-degree female elbow push-to-connect connectors designed to connect pneumatic tubing to a male-threaded component. The internal female thread, one-touch tube release, and compact elbow body provide fast installation, secure sealing, and efficient air routing in confined layouts.

Connection	Tube to female thread, 90 degree
Tube Sizes	4, 6, 8, 10 and 12 mm
Thread Options	M5, R1/8, R1/4, R3/8 and R1/2; BSP/NPT/Metric customization available
Typical Use	Automation, machinery, robotics, packaging and compressed-air systems

Technical Specifications

Parameter	Specification
Operating fluid	Air
Type	Pneumatic push-to-connect fitting
Proof pressure	1.32 MPa (13.5 kgf/cm ²)
Maximum operating pressure	0 to 0.9 MPa (0 to 9.2 kgf/cm ²)
Ambient and fluid temperature	0 to 60°C
Applicable tubing	PU tube and nylon tube
Body construction	Engineering plastic body with brass female threaded insert
Sealing method	Internal gripping teeth and O-ring sealing

Key Features

- 90-degree elbow design for directional air routing.
- Female threaded port connects directly to male-threaded equipment.
- One-touch push-to-connect installation reduces assembly time.
- O-ring sealing helps provide reliable, leak-resistant operation.
- Brass and engineering plastic construction supports industrial use.

Applications

- Pneumatic automation systems.
- Industrial machinery and production equipment.
- Air compressor and air distribution systems.
- Robotics and automated assembly lines.
- Packaging and material-handling equipment.

Model Structure

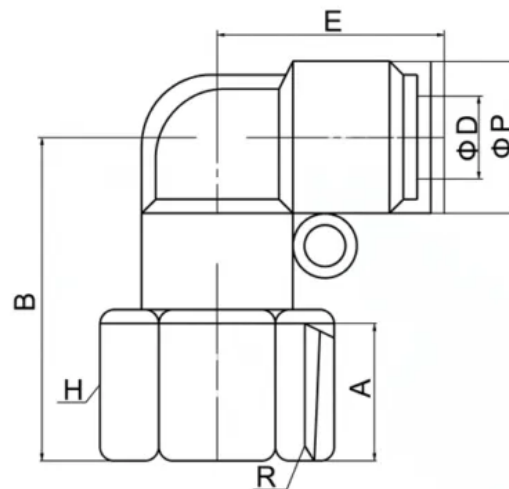
Common model designation combines tube outside diameter and thread code. Examples include PLF4-M5, PLF6-01, PLF8-02, PLF10-03 and PLF12-04. Thread and branding options can be customized for OEM and ODM projects.

Model and Dimension Data

All dimensions are in millimetres unless otherwise stated. Thread designations shown below follow the product-page reference data.

Model	D	E	B	P	A	R	H
PLF4-M5	4	18	18.5	11	4.5	M5	10
PLF4-01	4	18	22.5	11	8	R1/8	12
PLF4-02	4	18	24	11	9.5	R1/4	15
PLF6-M5	6	20	20.5	13	4.5	M5	12
PLF6-01	6	20	24.5	13	8	R1/8	12
PLF6-02	6	20	26	13	9.5	R1/4	15
PLF6-03	6	20	27	13	10.5	R3/8	19
PLF6-04	6	20	28	13	11.5	R1/2	24
PLF8-01	8	22	24.5	15	10.5	R1/8	14
PLF8-02	8	22	28	15	9.5	R1/4	15
PLF8-03	8	22	29	15	10.5	R3/8	24
PLF8-04	8	22	30	15	11.5	R1/2	19
PLF10-01	10	26	27.5	18.5	8	R1/8	17
PLF10-02	10	26	27.5	18.5	11	R1/4	17
PLF10-03	10	26	32	18.5	10.5	R3/8	19
PLF10-04	10	26	33	18.5	11.5	R1/2	24
PLF12-01	12	28	29.5	21	8	R1/8	19
PLF12-02	12	28	29.5	21	12.5	R1/4	19
PLF12-03	12	28	34	21	10.5	R3/8	19
PLF12-04	12	28	35	21	11.5	R1/2	24

Overall Dimension Drawing



Installation and Use Notes

- Cut the tube squarely and remove burrs before insertion.
- Push the tube fully into the fitting until it reaches the internal stop.
- To release the tube, depress the blue release ring evenly and pull the tube straight out.
- Confirm thread type and size before installation; apply suitable thread sealing practice where required.
- Do not exceed the specified pressure or temperature range.
- Use with clean compressed air and compatible PU or nylon tubing.

Source Note

Core specifications, model data and dimension references are based on the HOMIPNEU product page. Exact dimensions, thread standards, material details and production specifications should be confirmed before ordering.

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