

PL Pneumatic Male 90 Degree Elbow Fitting

90 degree push-to-connect tube-to-male-thread connector for compact air routing



Product Overview

The HOMIPNEU PL fitting is a male elbow push-to-connect connector designed for 90 degree tube-to-thread connections in pneumatic systems. Its one-touch tube connection supports quick installation and removal without special tools. The elbow body changes the airflow direction while saving installation space, and the combination of nickel-plated brass and engineering plastic provides reliable sealing, corrosion resistance and durable service in industrial compressed-air applications.

Item	Specification	Item	Specification
Connection	Tube x Male Thread, 90 Degree	Operating Fluid	Air
Tube O.D.	4-16 mm	Proof Pressure	1.32 MPa
Thread Options	M5, R1/8, R1/4, R3/8, R1/2, R3/4	Operating Pressure	0-0.9 MPa
Applicable Tube	PU Tube, Nylon Tube	Temperature	0-60 C

Key Features

- Push-to-connect one-touch tube installation without special tools.
- 90 degree elbow structure for directional routing in restricted spaces.
- Male threaded end for direct connection to valves, cylinders and manifolds.
- Internal O-ring sealing and durable metal/plastic construction.

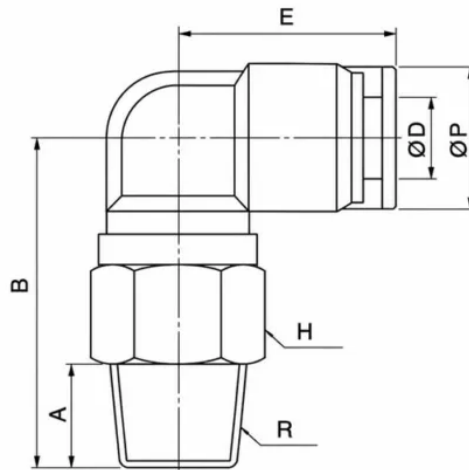
Typical Applications

- Pneumatic automation systems and machine air circuits.
- Industrial machinery, air compressors and control panels.
- Robotics, assembly lines and packaging equipment.
- Compact layouts requiring a 90 degree change in tubing direction.

Technical Specifications

Parameter	Specification
Operating Fluid	Air
Type	Pneumatic push-to-connect fitting
Structure	90 degree male elbow - tube to male thread
Proof Pressure	1.32 MPa (13.5 kgf/cm ²)
Maximum Operating Pressure	0-0.9 MPa (0-9.2 kgf/cm ²)
Ambient and Fluid Temperature	0-60 C
Applicable Tubing	PU tube and nylon tube
Main Materials	Nickel-plated brass and engineering plastic

Dimension Drawing



Symbols: D = tube O.D.; E = horizontal elbow length; B = overall height; P = port diameter; A = threaded-end length; R = male thread; H = hex width.

Model Selection and Dimensions

Model	D	E	B	P	A	R	H
PL4-M5	4	18	21.5	11	3.5	M5	10
PL4-01	4	18	25	11	7	R1/8	10
PL4-02	4	18	26	11	8	R1/4	14
PL6-M5	6	20	23.5	13	3.5	M5	12
PL6-01	6	20	27	13	7	R1/8	12
PL6-02	6	20	28	13	8	R1/4	14
PL6-03	6	20	29	13	9	R3/8	17
PL6-04	6	20	30.5	13	10	R1/2	21
PL8-01	8	22	29	15	7	R1/8	14
PL8-02	8	22	30	15	8	R1/4	14
PL8-03	8	22	31	15	9	R3/8	17
PL8-04	8	22	32.5	15	10	R1/2	21
PL10-01	10	26	32	18.5	7	R1/8	14
PL10-02	10	26	33	18.5	8	R1/4	14
PL10-03	10	26	34	18.5	9	R3/8	17
PL10-04	10	26	35.5	18.5	10	R1/2	21
PL12-01	12	28	34	21	7	R1/8	19
PL12-02	12	28	35	21	8	R1/4	19
PL12-03	12	28	36	21	9	R3/8	19
PL12-04	12	28	37.5	21	10	R1/2	21
PL14-02	14	30.5	37.5	23	8	R1/4	22
PL14-03	14	30.5	38.5	23	9	R3/8	22
PL14-04	14	30.5	39.5	23	10	R1/2	22
PL16-02	16	33	39.5	25.5	8	R1/4	24
PL16-03	16	33	40.5	25.5	9	R3/8	24
PL16-04	16	33	41.5	25.5	10	R1/2	24
PL16-06	16	33	43.5	25.5	12	R3/4	27

All dimensional values are in millimetres unless otherwise stated.

Installation and Operating Guidance

- Confirm that the tube outside diameter and male thread size match the selected PL model.
- Cut the tube squarely and remove burrs, dust and surface damage before insertion.
- Push the tube fully into the release ring until it reaches the internal stop.
- Apply suitable thread sealant when required, keeping sealant away from the airflow passage.
- Tighten using the hexagonal metal section; do not apply torque directly to the plastic elbow body.
- After installation, pressurize gradually and check all connections for leakage.
- To remove tubing, depress the release ring evenly and withdraw the tube without side load.

Ordering Information

Specify the PL model number, tube outside diameter, male thread type and required quantity. OEM and ODM options may include alternative thread standards, tube sizes, colors, sealing materials, packaging and branding, subject to production confirmation.

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

Contact Information

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