

PB-G Male Branch Tee Push-to-Connect Pneumatic Fitting

Perpendicular airflow branching with a male threaded equipment connection



Product Overview

The HOMIPNEU PB-G fitting is a male branch tee push-to-connect connector for distributing compressed air while connecting directly to a threaded equipment port. Its three-way body connects two pneumatic tubes at a 90-degree angle to the male threaded center connection, supporting compact perpendicular branch routing. The engineering-plastic body, nickel-plated brass threaded section and O-ring sealing system provide convenient installation and dependable pneumatic sealing.

Key Features

- Male branch tee structure for perpendicular airflow distribution.
- Central male threaded port for direct equipment or manifold connection.
- Two push-to-connect tube ports are positioned at a 90-degree angle.
- Tool-free tube insertion and release improve installation efficiency.
- Nickel-plated brass thread section provides durability and corrosion resistance.
- Integrated O-ring seal supports stable, leak-resistant operation.

Applications

- Pneumatic control panels and industrial automation equipment.
- Air distribution systems requiring perpendicular tube branching.
- Machinery, packaging, assembly and material-handling systems.
- Compact installations where branch routing and connector count must be reduced.

Product Function

PB-G fittings connect a valve, cylinder, manifold or other pneumatic component through the male threaded port and branch the airflow to two push-in tubes arranged at 90 degrees. This integrated design simplifies perpendicular air-line distribution and supports clean, space-efficient piping.

Technical Specifications

Parameter	Specification
Product Type	Male branch tee push-to-connect pneumatic fitting
Structure	Three-way branch tee with central male threaded port
Connection	Tube to thread
Thread Type	BSPP (G) / metric M5
Body Material	Engineering plastic with nickel-plated brass thread section
Seal Type	O-ring seal
Operating Fluid	Air and vacuum
Working Pressure	0-1.0 MPa
Proof Pressure	Up to 1.5 MPa
Temperature Range	0-60 deg C
Lock Claw	Stainless steel
Applicable Tubing	PU / nylon / PE / PVC tube

Product Structure and Size Range

- Tube sizes: 4 mm, 6 mm, 8 mm, 10 mm, 12 mm, 14 mm and 16 mm.
- Thread options include M5, G1/8, G1/4, G3/8 and G1/2.
- Two equal push-to-connect ports are arranged at 90 degrees across the tee body.
- The center male thread installs directly into a valve, cylinder, manifold or machine port.

Installation and Operating Guidance

- Cut the tube squarely and remove burrs or surface damage before insertion.
- Insert both tubes fully until they reach the internal stops.
- Apply suitable thread sealing practice without allowing sealing material to enter the air passage.
- Tighten the male thread using the metal hex section; do not rotate the plastic body under load.
- Pressurize the system gradually and inspect the thread and both tube connections for leakage.

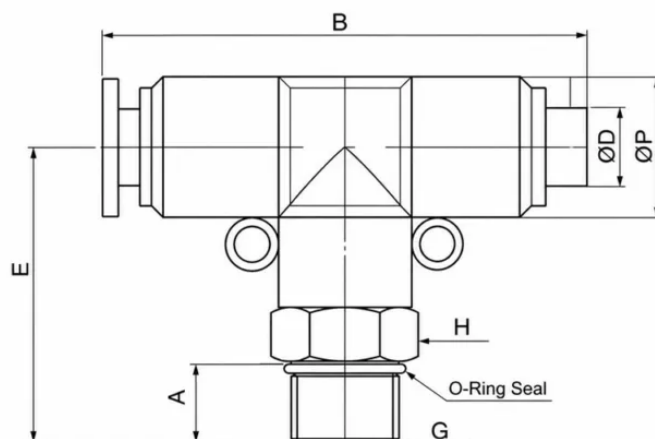
Maintenance and Safety Notes

- Depressurize the pneumatic circuit before installation, adjustment or tube removal.
- Keep tube sealing surfaces and release rings clean and free from particles.
- Do not exceed the specified pressure or temperature range.
- Replace the fitting if the body, thread, release ring or sealing area is damaged.

Ordering Information

Specify the PB-G model, tube outside diameter, male thread size, required quantity and preferred body color. OEM and ODM services are available for tube sizes, thread options, packaging and branding, subject to production confirmation.

Dimension Drawing



Model Selection and Dimensions

Model	D x 2	G	A	B	H	E	P x 2
PB4-M5	4	M5	3.5	36	10	21.5	11
PB4-G01	4	G1/8	5.5	36	12	23.5	11
PB4-G02	4	G1/4	6.5	36	15	24.5	11
PB6-M5	6	M5	3.5	40	12	23.5	13
PB6-G01	6	G1/8	5.5	40	12	25.5	13
PB6-G02	6	G1/4	6.5	40	15	26.5	13
PB6-G03	6	G3/8	7.5	40	19	27.5	13
PB6-G04	6	G1/2	9.5	40	24	30	13
PB8-G01	8	G1/8	5.5	44	14	27.5	15
PB8-G02	8	G1/4	6.5	44	15	28.5	15
PB8-G03	8	G3/8	7.5	44	19	39.5	15
PB8-G04	8	G1/2	9.5	44	24	32	15
PB10-G01	10	G1/8	5.5	52	17	30.5	18.5
PB10-G02	10	G1/4	6.5	52	17	31.5	18.5
PB10-G03	10	G3/8	7.5	52	19	32.5	18.5
PB10-G04	10	G1/2	9.5	52	24	35	18.5
PB12-G01	12	G1/8	5.5	56	19	32.5	21
PB12-G02	12	G1/4	6.5	56	19	33.5	21
PB12-G03	12	G3/8	7.5	56	19	34.5	21
PB12-G04	12	G1/2	9.5	56	24	37	21
PB14-G02	14	G1/4	6.5	62	22	36	23
PB14-G03	14	G3/8	7.5	62	22	37	23
PB14-G04	14	G1/2	9.5	62	24	39	23
PB16-G02	16	G1/4	6.5	66	24	38	25.5
PB16-G03	16	G3/8	7.5	66	24	39	25.5
PB16-G04	16	G1/2	9.5	66	24	41	25.5

All dimensions are in millimetres. D and P indicate tube-related outside diameters.

Contact Information

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