

PB Pneumatic Male Thread Tee Fitting

Push-to-connect branch tee connector with two tube ports and one male threaded port



Product Overview

The HOMIPNEU PB fitting is a male-thread branch tee connector for distributing compressed air between two tubing lines and one threaded connection. Its T-shaped body combines two push-to-connect tube ports with a male threaded port, supporting compact air branching in automation equipment and pneumatic pipelines.

Key Features

- T-type branch tee structure for multi-directional air distribution.
- Two push-to-connect tube ports with one male threaded connection.
- Fast, tool-free tube installation and removal.
- Internal gripping teeth and O-ring sealing support secure connections.
- Durable brass and engineering plastic construction for industrial use.

Applications

- Pneumatic automation systems and control circuits.
- Compressed-air distribution and branch pipelines.
- Packaging, assembly and material-handling equipment.
- Robotics, industrial machinery and machine-building projects.

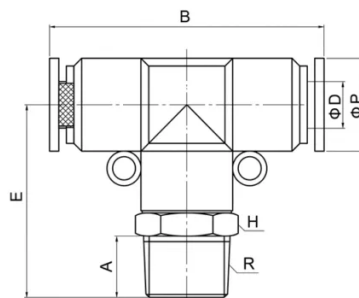
Technical Specifications

Parameter	Specification
Operating Fluid	Air
Type	Pneumatic push-to-connect male thread tee fitting
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 deg C
Applicable Tubing	PU tube and nylon tube

Product Structure and Size Range

- Tube x tube x male thread branch tee configuration.
- Tube outside diameters range from 4 mm to 16 mm.
- Male thread options include M5, R1/8, R1/4, R3/8, R1/2 and R3/4.
- BSP, NPT and metric thread options may be supplied subject to confirmation.

Dimension Drawing



Model Selection and Dimensions

Model	D x 2	E	B	P x 2	A	R	H
PB4-M5	4	21.5	36	11	3.5	M5	10
PB4-01	4	25	36	11	7	R1/8	10
PB4-02	4	26	36	11	8	R1/4	14
PB6-M5	6	23.5	40	13	3.5	M5	12
PB6-01	6	27	40	13	7	R1/8	12
PB6-02	6	28	40	13	8	R1/4	14
PB6-03	6	29	40	13	9	R3/8	17
PB6-04	6	30.5	40	13	10	R1/2	21
PB8-01	8	29	44	15	7	R1/8	14
PB8-02	8	30	44	15	8	R1/4	14
PB8-03	8	31	44	15	9	R3/8	17
PB8-04	8	32.5	44	15	10	R1/2	21
PB10-01	10	32	52	18.5	7	R1/8	17

All dimensional values are in millimetres. Model table continues on the next page.

Model Selection and Dimensions - Continued

Model	D x 2	E	B	P x 2	A	R	H
PB10-02	10	33	52	18.5	8	R1/4	17
PB10-03	10	34	52	18.5	9	R3/8	17
PB10-04	10	35.5	52	18.5	10	R1/2	21
PB12-01	12	34	56	21	7	R1/8	19
PB12-02	12	35	56	21	8	R1/4	19
PB12-03	12	36	56	21	9	R3/8	19
PB12-04	12	37.5	56	21	10	R1/2	21
PB14-02	14	37.5	62	23	8	R1/4	21
PB14-03	14	38.5	62	23	9	R3/8	21
PB14-04	14	39.5	62	23	10	R1/2	21
PB16-02	16	39.5	66	25.5	8	R1/4	24
PB16-03	16	40.5	66	25.5	9	R3/8	24
PB16-04	16	41.5	66	25.5	10	R1/2	24
PB16-06	16	43.5	66	25.5	12	R3/4	27

All dimensional values are in millimetres. D and P indicate outside diameters.

Selection Notes

- Select the PB model according to tube outside diameter and male thread size.
- Confirm the required thread standard before ordering or installation.
- Verify operating pressure, temperature and tubing material for the application.

Installation and Operating Guidance

- Cut the tube squarely and remove burrs, dust and surface damage before insertion.
- Apply suitable thread sealant to the male thread without allowing material to enter the airflow passage.
- Tighten the threaded port using the hexagonal body; do not rotate or load the plastic tee body excessively.
- Insert each tube fully until it reaches the internal stop, then pull lightly to confirm engagement.
- Pressurize the system gradually and inspect all connections for leakage.

Maintenance and Safety Notes

- Depressurize the pneumatic circuit before installation, adjustment or tube removal.
- Keep release rings, threads and tube sealing surfaces clean and undamaged.
- Do not exceed the stated pressure and temperature limits.
- Replace the fitting if the body, release ring, thread or sealing area is damaged.

Ordering Information

Specify the PB model, tube outside diameter, male thread size, thread standard and required quantity. OEM and ODM services are available for materials, sealing options, packaging and branding, subject to production confirmation.

Contact Information

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