

## PH Pneumatic Outer Hexagonal Male Elbow Fitting

90 Degree Push-to-Connect Male Elbow Air Connector



### Product Overview

PH pneumatic fittings are outer hexagonal male elbow push-to-connect connectors designed for 90-degree tube-to-thread connections in pneumatic systems. The outer hexagonal structure makes installation and tightening easier, while the elbow design helps save space and supports flexible air routing in compact pneumatic layouts.

### Key Features

- Outer hexagonal body for easier installation and tightening.
- 90-degree elbow structure for compact air routing.
- Push-to-connect design for fast tube connection.
- Male thread end for secure tube-to-thread installation.
- Suitable for PU tube and nylon tube.

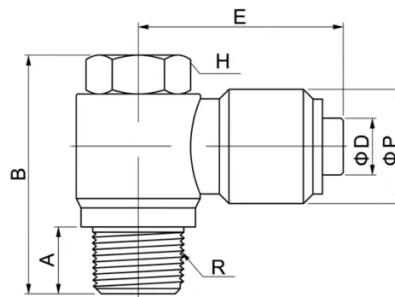
### Applications

- Pneumatic automation systems
- Industrial machinery
- Air compressor systems
- Control panels
- Packaging equipment

## Technical Specifications

| Parameter                   | Specification                          |
|-----------------------------|----------------------------------------|
| Operating Fluid             | Air                                    |
| Type                        | Pneumatic Fittings                     |
| Proof Pressure              | 1.32 MPa (13.5 kgf/cm <sup>2</sup> )   |
| Max. Operating Pressure     | 0–0.9 MPa (0–9.2 kgf/cm <sup>2</sup> ) |
| Ambient & Fluid Temperature | 0–60°C                                 |
| Applicable Tubing           | PU Tube, Nylon Tube                    |

## Model Selection and Dimensions



| Model   | ΦD | E    | B    | ΦP   | A   | R    | H  |
|---------|----|------|------|------|-----|------|----|
| PH4-M5  | 4  | 20.5 | 18.5 | 11   | 3.8 | M5   | 8  |
| PH4-01  | 4  | 24   | 24   | 13   | 7   | R1/8 | 11 |
| PH4-02  | 4  | 25   | 26.5 | 13   | 8   | R1/4 | 15 |
| PH6-M5  | 6  | 22.5 | 18.5 | 13   | 3.8 | M5   | 8  |
| PH6-01  | 6  | 24   | 24   | 13   | 7   | R1/8 | 11 |
| PH6-02  | 6  | 25.5 | 26.5 | 13   | 8   | R1/4 | 15 |
| PH6-03  | 6  | 29.5 | 31.5 | 15   | 9   | R3/8 | 19 |
| PH6-04  | 6  | 31   | 36   | 15   | 10  | R1/2 | 22 |
| PH8-01  | 8  | 26   | 24   | 15   | 7   | R1/8 | 11 |
| PH8-02  | 8  | 28   | 26.5 | 15   | 8   | R1/4 | 15 |
| PH8-03  | 8  | 30   | 31.5 | 15   | 9   | R3/8 | 19 |
| PH8-04  | 8  | 32   | 36   | 15   | 10  | R1/2 | 22 |
| PH10-01 | 10 | 31   | 24   | 21   | 7   | R1/8 | 11 |
| PH10-02 | 10 | 31.5 | 26.5 | 18.5 | 8   | R1/4 | 15 |
| PH10-03 | 10 | 33   | 31.5 | 18.5 | 9   | R3/8 | 19 |
| PH10-04 | 10 | 35   | 36   | 21   | 10  | R1/2 | 22 |
| PH12-01 | 12 | 31   | 24   | 21   | 7   | R1/8 | 11 |
| PH12-02 | 12 | 33   | 26.5 | 21   | 8   | R1/4 | 15 |
| PH12-03 | 12 | 33.5 | 31.5 | 21   | 9   | R3/8 | 19 |
| PH12-04 | 12 | 35   | 36   | 21   | 10  | R1/2 | 22 |

## Product Structure & Types

- Tube-to-male-thread 90-degree elbow structure.
- Tube sizes available: 4 mm, 6 mm, 8 mm, 10 mm, and 12 mm.
- Thread options include M5, R1/8, R1/4, R3/8, and R1/2.
- Typical models include PH4-M5, PH6-01, PH8-02, PH10-03, and PH12-04.

## Key Advantages

- Reliable sealing and stable connection for compressed air applications.
- Compact design helps optimize piping arrangement in tight spaces.
- Multiple tube and thread combinations for flexible selection.
- OEM / ODM customization is available for tube size, thread type, sealing material, and branding.

## Typical Applications

PH fittings are widely used in pneumatic systems requiring compact 90-degree air routing, secure threaded connection, and reliable tube installation.

- Pneumatic automation systems
- Industrial machinery
- Air compressor systems
- Control panels
- Packaging equipment

## Ordering Notes

- Confirm tube outside diameter and thread specification before ordering.
- Verify working pressure, medium, and temperature for application compatibility.
- For customized requests, provide thread standard, sealing requirements, and branding details.

## OEM & ODM Support

OEM and ODM customization services are available for tube size, thread type, sealing material, surface treatment, and branding requirements.

## FAQ

**Q: What is a PH pneumatic fitting?**

A: It is an outer hexagonal male elbow push-to-connect fitting used for 90-degree tube-to-thread connections in pneumatic systems.

**Q: What does “outer hexagonal male elbow fitting” mean?**

A: It indicates a male threaded end, a 90-degree elbow structure, and an outer hexagonal body for easier tightening during installation.

**Q: What tubing can be used with PH fittings?**

A: PH fittings are suitable for PU tube and nylon tube.

**Q: What is the working pressure of PH pneumatic fittings?**

A: The maximum operating pressure is 0–0.9 MPa, and the proof pressure is 1.32 MPa.

**Q: What sizes are available?**

A: The series includes tube sizes from 4 mm to 12 mm and thread options including M5, R1/8, R1/4, R3/8, and R1/2.

**Q: Can PH pneumatic fittings be customized?**

A: Yes. OEM / ODM customization is available for tube size, thread type, sealing material, and branding.

### Contact Information

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