



PG Straight Reducer Pneumatic Fitting

Push-to-Connect Air Tube Connector for Different Tube Diameters



Compact reducer connection for pneumatic tubing

The PG series connects two pneumatic tubes of different outside diameters in a straight line. Its push-to-connect mechanism provides fast installation, secure tube retention and reliable sealing for compressed-air systems.

Typical tube range: 4 mm to 16 mm

Working medium: Air

Max. operating pressure: 0.9 MPa

Temperature range: 0 to 60°C

Quick Installation Tool-free push-in tube connection	Reducer Function Connects unequal tube diameters	Reliable Sealing Internal O-ring sealing structure
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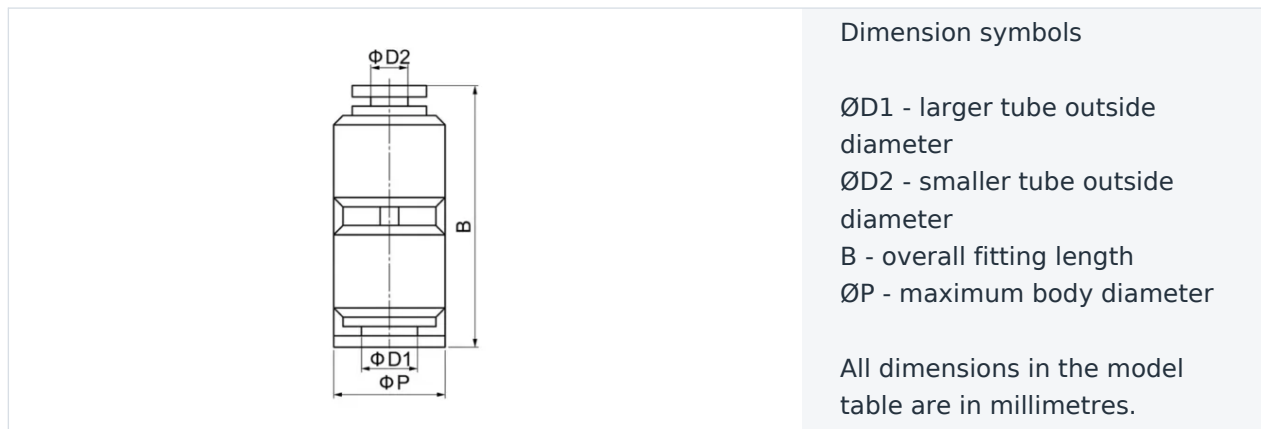
OEM / ODM customization available for size combinations, materials, sealing structure and branding.

Product Overview

PG straight reducer fittings are designed for inline connection of two pneumatic tubes with different outside diameters. The reducer body creates a smooth transition between tube sizes and supports compact piping layouts in automation equipment, machinery and compressed-air distribution lines.

Operating Fluid	Air
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
Connection Type	Straight push-to-connect reducer

Dimension Reference



Installation Notes

- Cut the tube squarely and remove burrs before insertion.
- Push the tube fully into the fitting until it reaches the internal stop.
- After insertion, pull gently to confirm that the tube is locked.
- To remove the tube, press the release ring evenly while pulling the tube out.
- Use within the specified pressure and temperature ranges.

Model and Dimension Table

Select the model according to the required larger and smaller tube outside diameters.

Model	ØD1	ØD2	B	ØP × 2
PG6-4	6	4	35	13
PG8-6	8	6	37.5	15
PG8-4	8	4	37	15
PG10-8	10	8	44	18.5
PG10-6	10	6	43.5	18.5
PG12-10	12	10	47.5	21
PG12-8	12	8	46.5	21
PG12-6	12	6	46	21
PG14-12	14	12	48	23
PG14-10	14	10	48	23
PG16-14	16	14	52.5	25.5
PG16-12	16	12	52	25.5

How to Read the Model Code

PG	10	-	6
Series	Larger tube O.D.	Separator	Smaller tube O.D.

Selection Guidance

- Match ØD1 and ØD2 to the actual outside diameters of the two tubes.
- Install with the larger tube on the ØD1 side and the smaller tube on the ØD2 side.
- Confirm that the tubing material and operating conditions are compatible with the fitting.

Key Features and Applications

Key Features	Typical Applications
• Straight reducer for unequal tube diameters • Tool-free push-to-connect installation • Smooth transition between tube sizes • O-ring sealing for reliable air connection • Compact inline structure • Suitable for PU and nylon tubing	• Pneumatic automation systems • Air-compressor pipelines • Industrial machinery • Tube-size conversion circuits • Maintenance and retrofit pipelines • Mixed-diameter tubing layouts

Why Choose HOMIPNEU

- Full PG reducer size range for common pneumatic tube combinations.
- OEM and ODM customization for dimensions, materials, sealing structure and branding.
- Quality-control support for stable production and consistent fitting performance.
- Bulk supply and export service for distributors, machine builders and automation projects.

Ordering Information

Please provide:	Required PG model or both tube outside diameters; quantity; tubing material; working pressure; preferred color; branding or packaging requirements.
Customization:	Size combination, material, sealing structure, color, logo and packaging options can be discussed for OEM/ODM orders.



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Contact us for samples, bulk pricing and OEM/ODM solutions.

Specifications are based on the product information published on the HOMIPNEU website. Product appearance and detailed construction may be updated without prior notice. Confirm final requirements before ordering.