



1/2" Male Hose Fittings – Ø4–24 mm

The sizes listed below refer to the inner diameter of the tube to be connected



3D Preview



Description

Reviews & Ratings (67)

Description

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Description

The project was prepared with **multi-profile files + separate single models for each diameter (the indicated measurement refers to the internal diameter of the pipe to be connected)**, so you can:

- print all fittings in a single print
- print only what you need
- avoid manual modifications to the plate
- quickly choose the most suitable diameter for your pipe

Set consists of 3D printable **1/2" male hose barb fittings**, designed to connect pipes of different diameters with good compatibility to standard fittings.

The package includes the following measurements referring to the internal diameters of the pipe to be connected:

Ø4 mm
Ø6 mm
Ø8 mm
Ø10 mm
Ø12 mm
Ø14 mm
Ø16 mm
Ø18 mm
Ø20 mm
Ø22 mm
Ø24 mm

Ideal for:

- water or air pipe connections
- irrigation systems
- workshop and DIY
- tests and prototypes
- quick adaptations to existing systems

- ✓ Thread compatible with hydraulic standard **GAS/BSP 1/2" male**
- ✓ Complete set with pipe diameters from Ø4 to Ø24 mm
- ✓ Multiple files for single or complete printing
- ✓ Optimized geometry for FDM printing
- ✓ Simple, compact and robust structure
- ✓ Useful for quick connections, tests and adaptations

The pipe insertion area is designed with **spaced hose barb profiles**, designed to:

- ✓ improve grip on the pipe
- ✓ prevent slipping under pressure
- ✓ **allow correct tightening of the clamp**, which can work between the teeth without deforming the fitting

This geometry allows for a more secure and stable fastening even with soft tubes.



Print Notes

To improve adhesion to the build plate, I added **small supports at the base** of the model.

- ✓ They are needed because the contact surface is reduced
- ✓ If the plate is not perfectly clean, the part might detach
- 👉 The supports are **not structural**, so you can remove them or deactivate them if you have good adhesion (clean plate, glue, PEI, etc.)



Attention

Not suitable for high pressure, hot water or critical systems.
To improve sealing, the use of **PTFE tape (Teflon)** is recommended when necessary.



TECHNICAL SPECIFICATIONS

Type: Male hose barb hydraulic fittings
Thread standard: GAS / BSP
Thread: 1/2" male
Internal diameters of pipe to be connected: Ø4 – Ø24 mm (2 mm step)
Configuration: multi-profile + single models
Recommended technology: FDM printing
Recommended materials: PLA / PETG / ASA / ABS



Other versions available:



1/2" Female Set Ø6–24 mm

<https://makerworld.com/it/models/2717745-plumbing-fittings-1-2-f-pipes-with-6-24-mm-internal#profileId-3010208>



3/4" Female Set Ø6–28 mm

<https://makerworld.com/it/models/2747643-hydraulic-fittings-3-4-m-internal-tube-o-6-28-mm#profileId-30479>



3/4" Male Set Ø6–28 mm

<https://makerworld.com/it/models/2747643-3-4-male-hose-barb-adaptor-set-o6-28-mm-bsp#profileId-3047923>