



Max Flow Rate Spout



buchnema

[VIEW IN BROWSER](#)

updated 6. 6. 2025 | published 6. 6. 2025

Summary

Spout with optimized flow rate for 5 liter canisters



3.03 hrs



1 pcs



0.20 mm



0.40 mm



PLA



41 g



Prusa MK4

[Household](#) > [Other House Equipment](#)

Tags: [water](#) [container](#) [jerrycan](#) [canister](#) [spout](#) [wasser](#)
[tuelle](#) [kanister](#) [pout](#) [frostschutzmittel](#) [frostschutz](#)
[spoutcan](#) [ausgiessen](#)

When I designed the [spout for 5 liter canisters](#), my initial designs included a more sophisticated vent. While this maximizes the flow of the spout, it requires a higher air opening and therefore an additional part. So for those who want to empty their 5-liter canister in less than 30 seconds, I'd like to share that design here as well. The spout is fastened with a knurled nut and sits firmly and tightly on the neck so that no liquid can run past it. Liquid flows out quickly with about 12 l/min.

This model consist of three parts: Spout, Nut and Vent

Printed in PLA 0,2mm structural preset (PETG or ASA work as well). No supports required, the vent part needs a brim.

Model files



maxflowratespout.3mf

Print files



maxflowratespout_04n_02mm_pla_mk4is_3h2m.bgcode

🌐 PLA 📏 0.40 mm 📐 0.20 mm ⌚ 3.03 hrs ⚖️ 41 g 🖨️ Prusa MK4

License ©

This work is licensed under a
Creative Commons (4.0 International License)



Attribution—Noncommercial—Share Alike

-
- ✗ | Sharing without ATTRIBUTION
 - ✓ | Remix Culture allowed
 - ✗ | Commercial Use
 - ✗ | Free Cultural Works
 - ✗ | Meets Open Definition