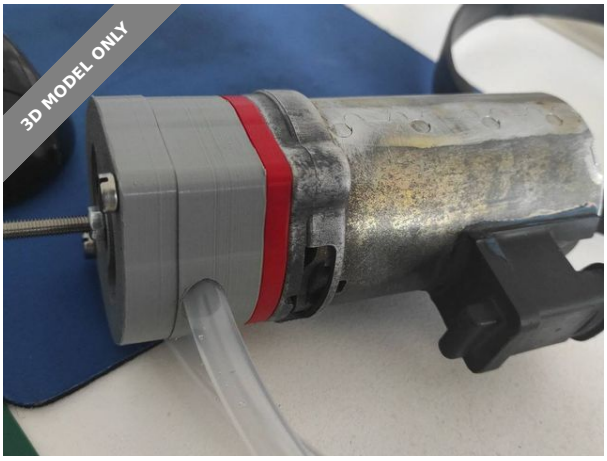

Peristaltic pump (strong)

Krystian Ślusarek

VIEW IN BROWSER

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Summary

I present my peristaltic pump for watering flowers on the balcony based on the engine from the Ford Scorpio ABS pump and

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Tags: peristaltic pump strong pompa perystaltyczna

I present my peristaltic pump for watering flowers on the balcony based on the engine from the Ford Scorpio ABS pump and a hose 8 mm (inner diameter) / 10 mm (outer diameter).

I printed the pump from PLA because its elements do not come into contact with the pumped medium. The pump should use a soft silicone hose with an outer diameter of 10 mm and an inner diameter of 10 mm. The bearings used in the pump are 625-2Z (5x16x5). I used a 12V electric motor from a Ford Scorpio ABS pump as a drive. However, if you change the rotor and/or flange, you can adapt the pump to any engine/drive - for this purpose, I am attaching a Fusion360 file (I am not a professional designer, so please do not laugh at how I drew it - I am learning).

Here you can see how this pump is working:

Model files

flanche.stl

Flanche between motor and pump housing

rotor.stl

Pump rotot

peristaltic_pump_fusion360.f3d

Fusion360 file

pump_cover.stl

Pump cover

pump_housing.stl

Pump housing

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