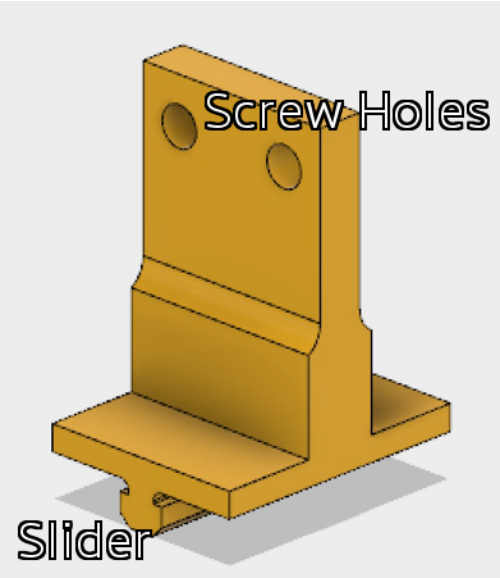
3D Printed Component Info Sheet – Valve Slider 1

Part Name: Valve Slider
Project: OPEnSampler
Current Version: 1
Date: Nov 14, 2017



Summary Description:

Two solenoid valves mount to either side of the piece using M2 screws and bolts through the two holes at the top. The bottom of the piece slides into the channel of Misumi 15mm Aluminum Extrusion. 12 of the assembled sliders are attached to the underside of the electronics “spine” of the OPEnSampler.

Description and reason for most recent changes:

None

Comments:

Possibly could be made stronger. Hasn’t been printed and tested yet.

Related Parts:

Shenzhen 2-pos solenoid valve
M2x10mm machine screw
M2 nut

Recommended Print Settings:

Printer: Fusion3 F400-S

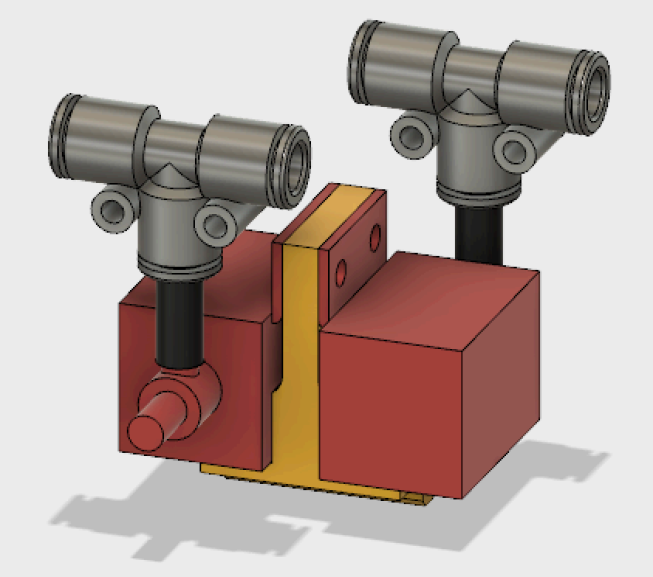
Print Head, Extruder Type: 0.4mm E3D v6, Bowden
Slicer: Simplify3D
Layer Height: .14mm
Layer Width: .42mm
Speed: 5000+ mm/min
Support Type: print bed, lines
Support Fill: 30% +
Fans: Low / none
Top/Bottom Layers: 6
Comments: print 3+ at a time to guard from overheating.

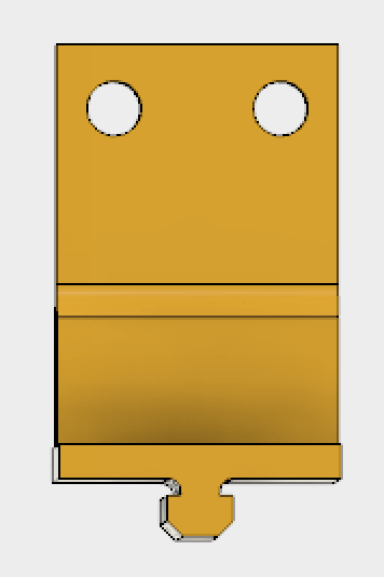
Post Processing:

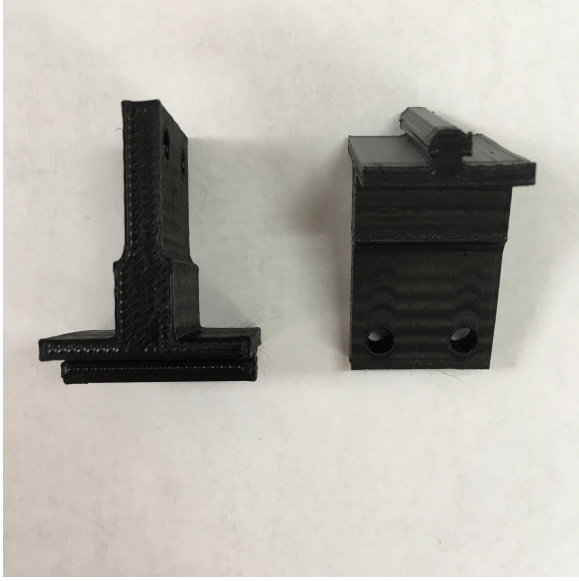
Acetone vapor finishing is optional to avoid shearing layers. This is not necessary, however.

Attach two valves on either side of the slider, as shown in the picture on the next page.

Pictures:







Version Changes:

None