**Machining top and bottom piece:**

-Protolabs SLA 3D printer

-Watershed material that will be custom finished to be clear

-Prints with a tolerance of 0.05mm

<https://www.designworldonline.com/biocompatible-material-fits-medical-design-requirements/>

<https://www.fostercomp.com/stewardship/usp-class-vi/>

**Application of Watershed:**

WaterShed XC 11122 offers many properties that mimic traditional engineering plastics including ABS and PBT. This makes the material ideal for many applications in the automotive, medical and consumer electronics markets and include:

- Lenses

- Packaging

- Water flow analysis

**Fittings:**

-CHECK TAPS

**Screws/Bolts:**

-3in long, ¼ by 20 threading

<https://www.mcmaster.com/85555a113>

<https://www.mcmaster.com/95462a029>

<https://www.mcmaster.com/92196a801>

**O-rings:**

-O-ring EPDM 029

**Aortic Root Info:**