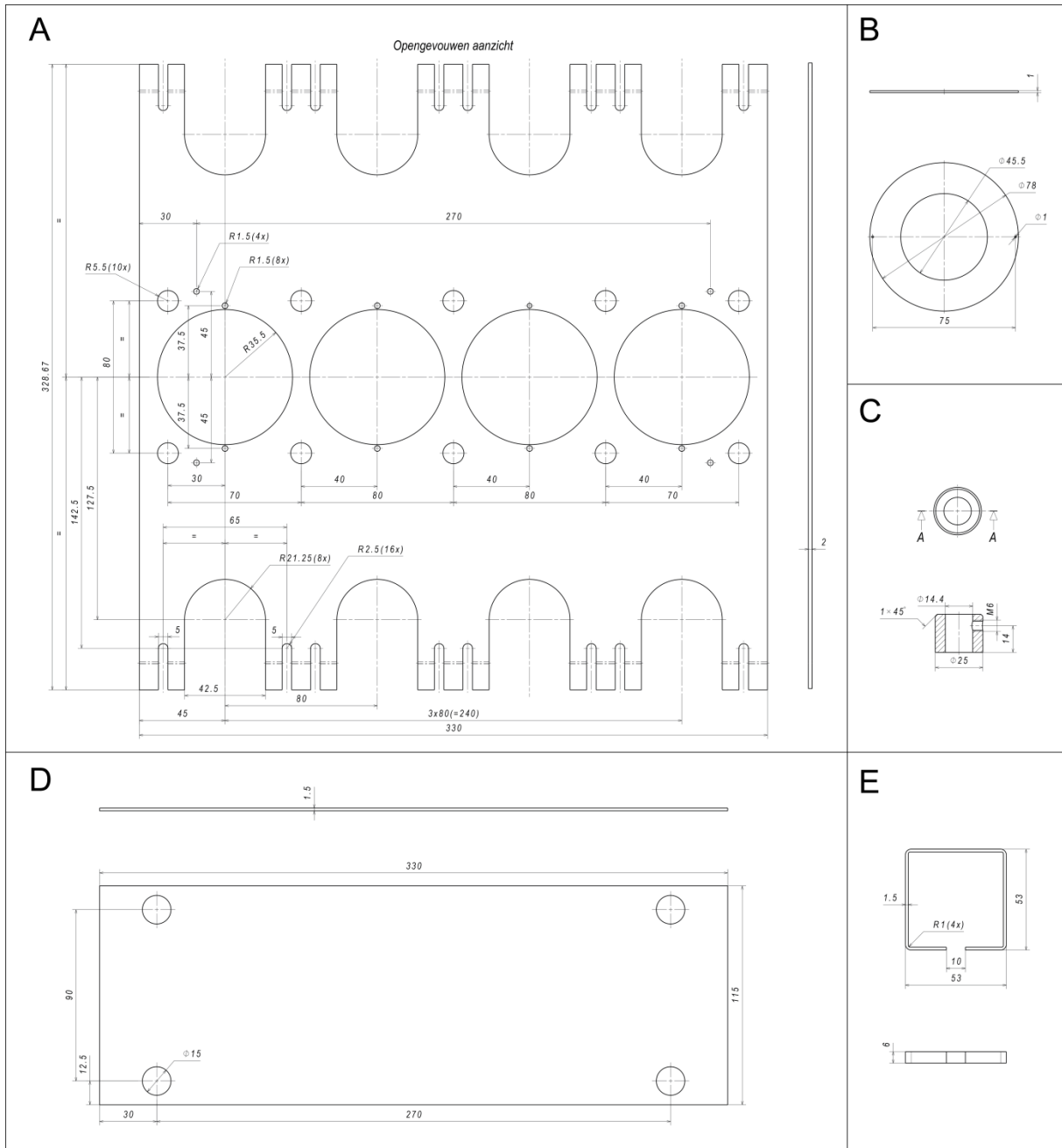
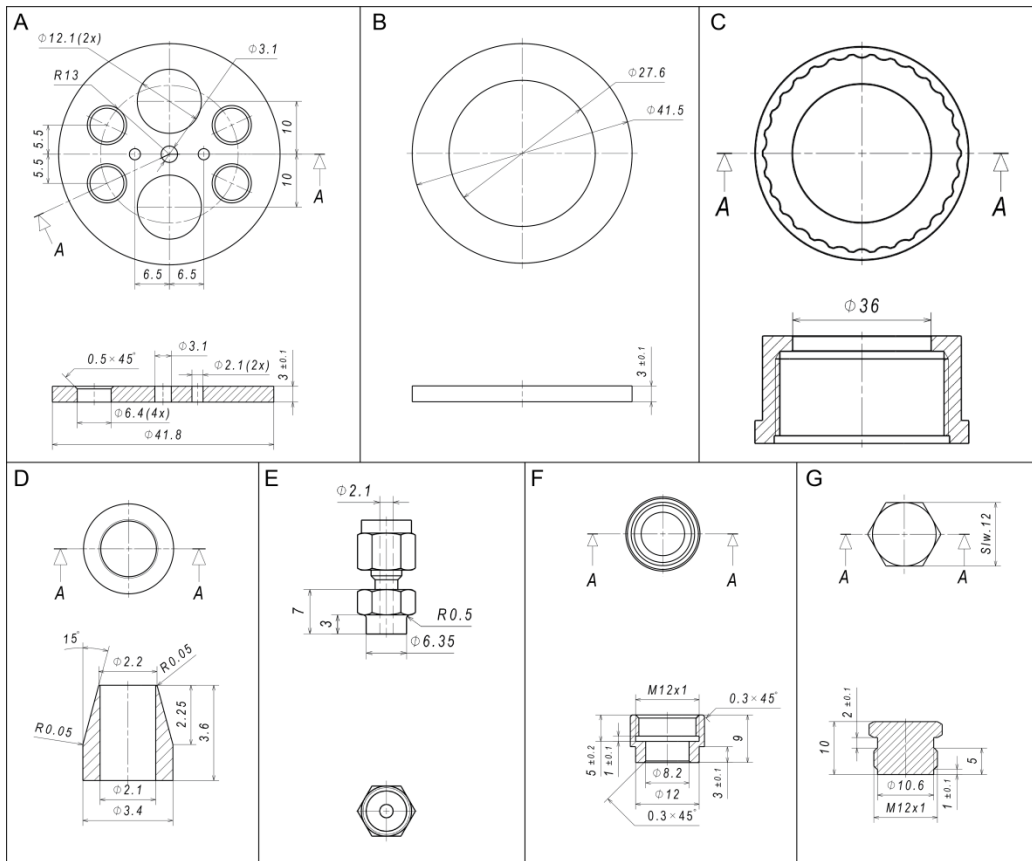


# 1 Supporting information



2  
3 S1 Figure

4 Technical drawing of the bioreactor frame. The material used for the entire frame was stainless steel  
5 (304). Dimensions in the drawing are given in millimeters. (A) Main top plate frame. (B) Bioreactor  
6 centralizing disk. (C) Height adjustable leg holder. (D) Magnetic stirrer platform. (E) Magnetic stirrer  
7 holders.



8

9 S2 Figure

- 10 Technical drawing bioreactor head plate. The head plate should be made out of Stainless steel.
- 11 Dimensions in the drawing are given in millimeters. (A) Stainless steel (304) head plate disk. (B)
- 12 Silicone head plate seal. (C) Head plate screwcap. (D) PTFE ferrule for height adjustable ports. (E)
- 13 Fitting (Swagelok 1/16" stainless steel 304) for height adjustable port. (F) Stainless steel sensor
- 14 holder. (G) Stainless steel sensor port closing nut. Sensor clamping nut (Z813000253) and silicone
- 15 sensor O-ring (V1S3ARP011) are purchased from Applikon Biotechnology.