

Synthetic Biofilm Reactor with Independent Supply of Gas and Liquid Phase for Studying Chain Elongation with Immobilized *Clostridium kluyveri* at Defined Reaction Conditions

Joshua Herzog, Karlis Blums, Simon Gregg, Lukas Gröninger, Johannes Poppe, Verena Uhlig, Qifei Wang and Dirk Weuster-Botz *

Chair of Biochemical Engineering, TUM School of Engineering and Design, Technical University of Munich, Boltzmannstraße 15, D-85748 Garching, Germany; joshua.herzog@tum.de (J.H.); simon.gregg@tum.de (S.G.); qifei.wang@tum.de (Q.W.)

* Correspondence: dirk.weuster-botz@tum.de; Tel.: +49-89-289-15712

1. Technical Drawings

Biofilm reactor chamber

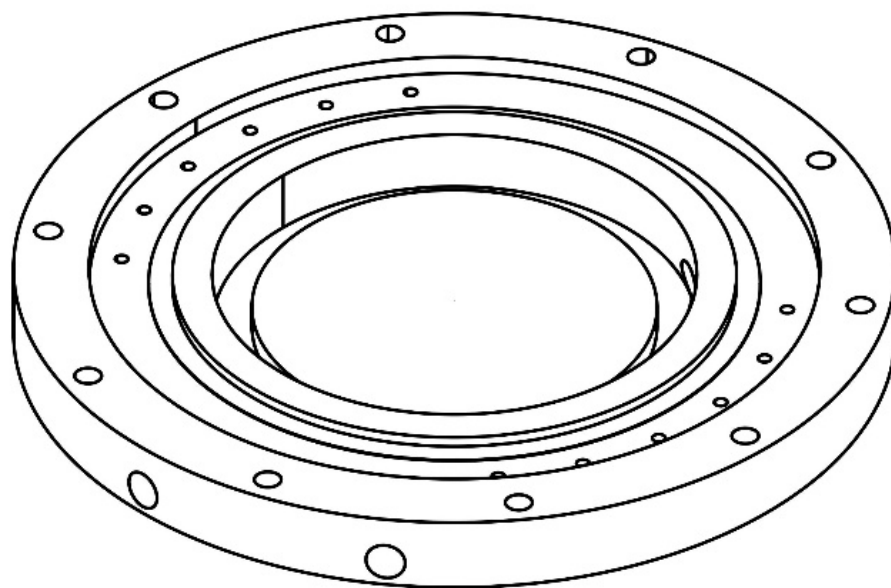


Figure S1 Technical drawing of the bottom part of the biofilm module with an oblique front view.

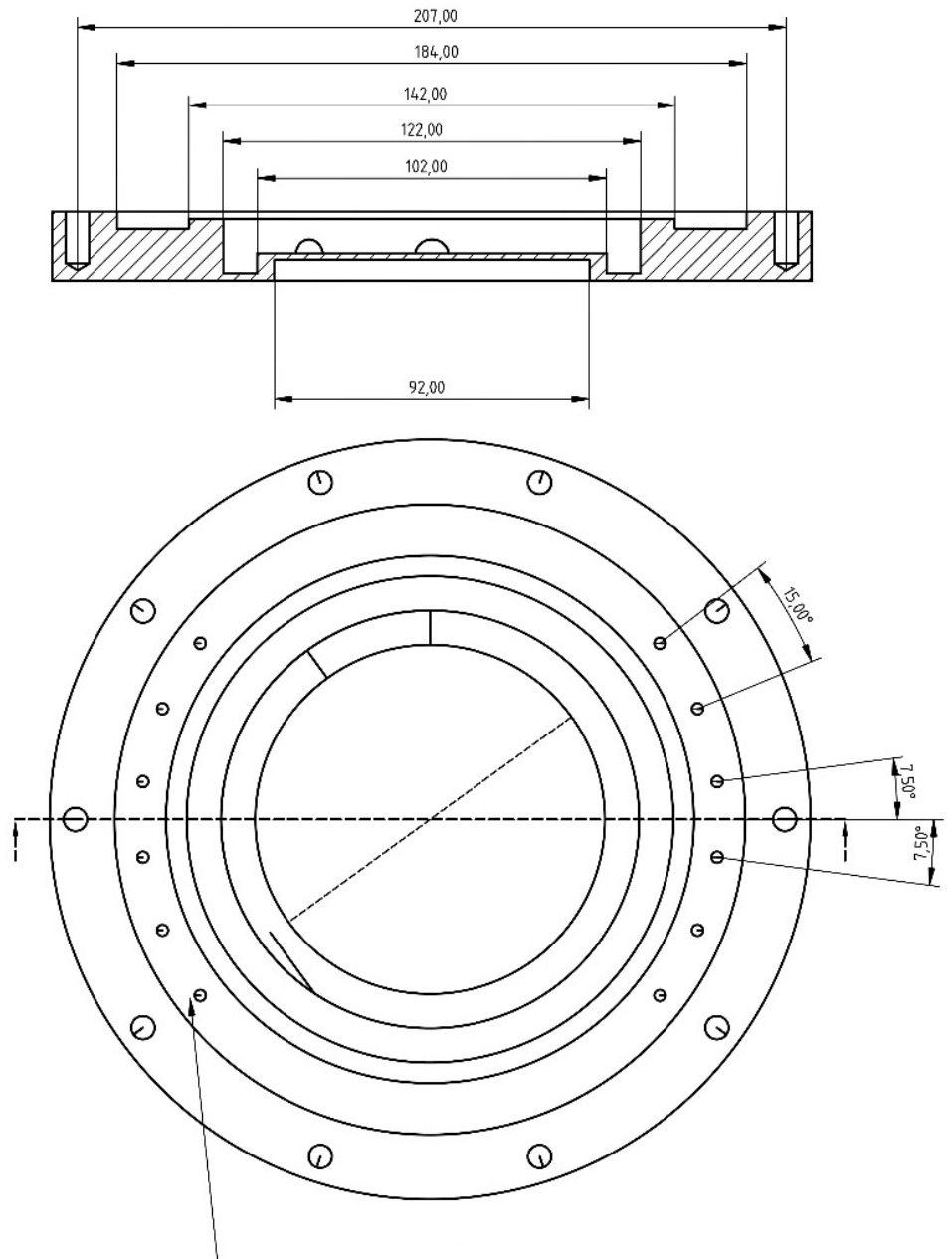


Figure S2 Technical drawings of the bottom part of the biofilm module in cross-section (top) and top view (bottom). Dimensions in millimeters and degrees.

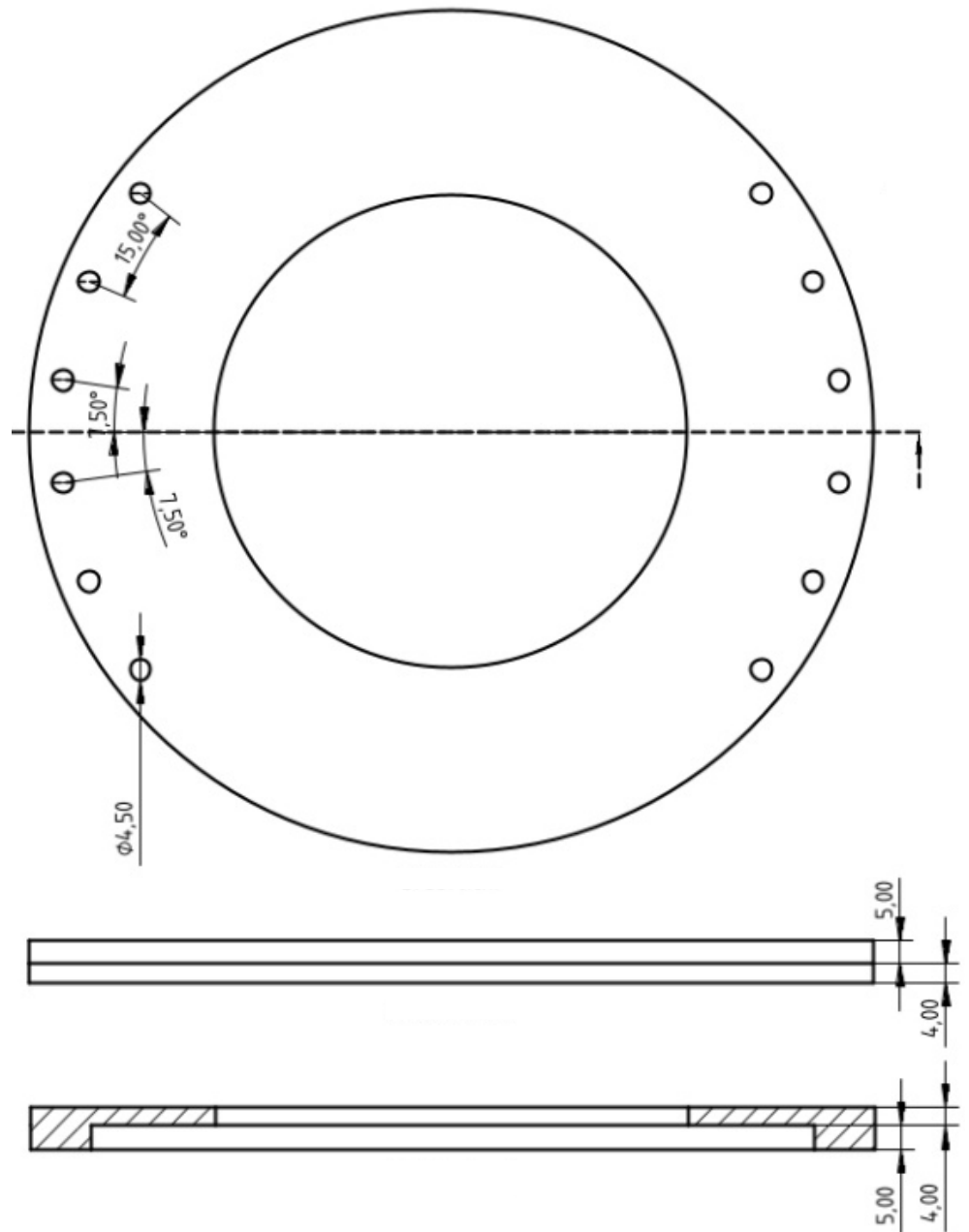


Figure S3 Technical drawings of the lower casting frame in the biofilm module in top view (top), side view (middle), and cross-section (bottom). Dimensions in millimeters and degrees.

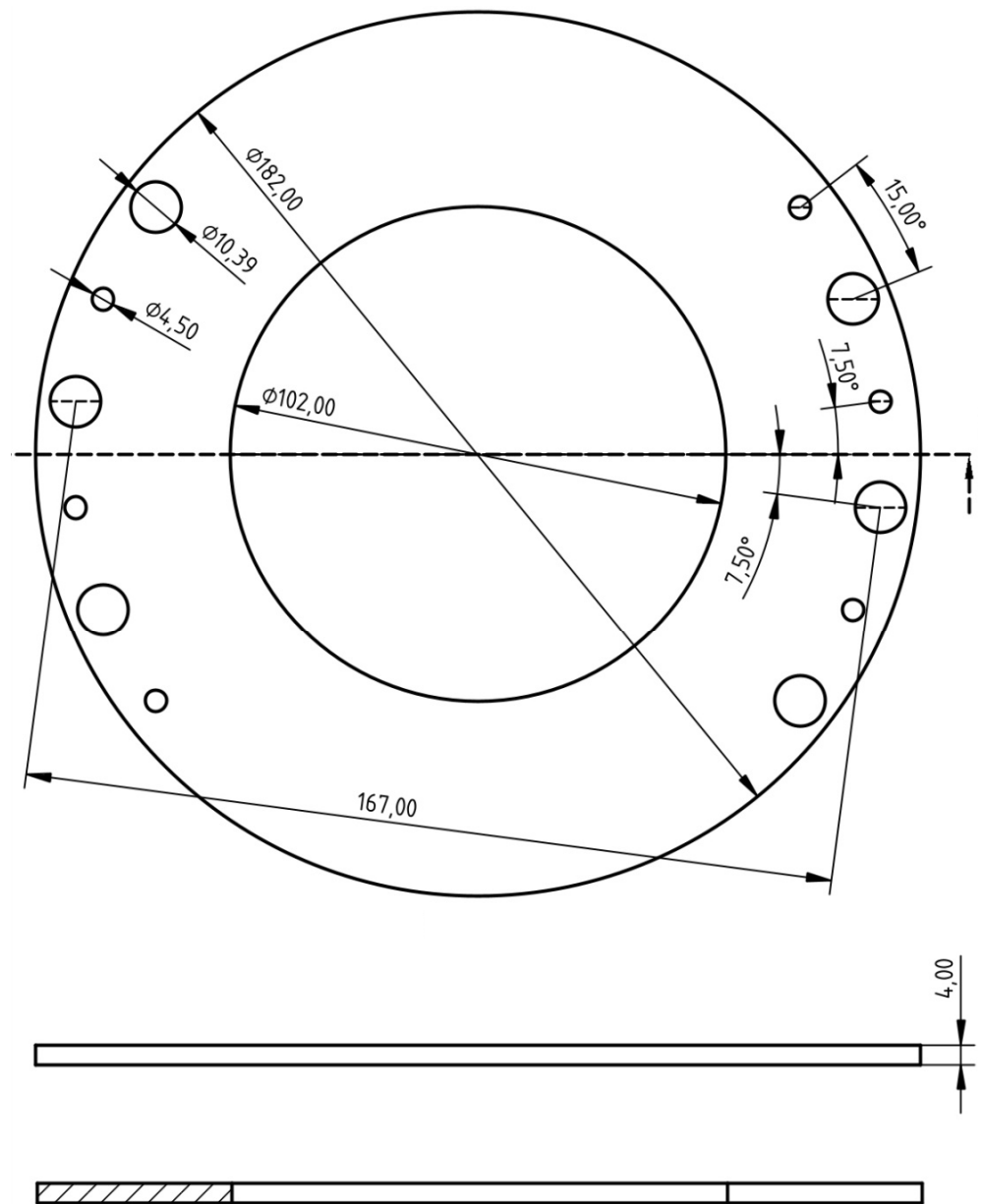


Figure S4 Technical drawing of the upper casting frame in the biofilm module in top view (top), side view (middle), and cross-section (bottom). Dimensions in millimeters and degrees.

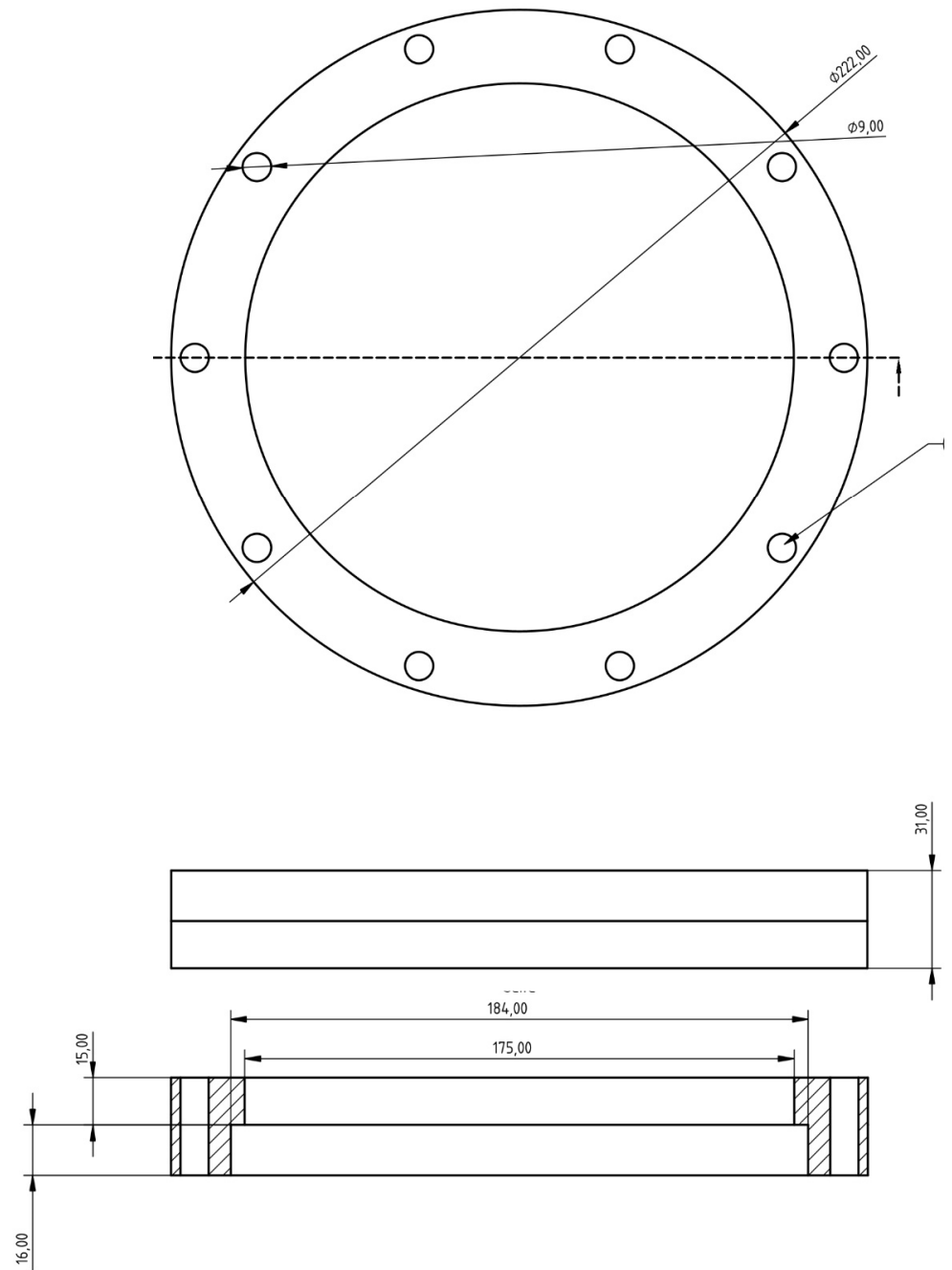


Figure S5 Technical drawing of the sight glass flange weld-in for the biofilm module in top view (top), side view (middle), and cross-section (bottom). Dimensions in millimeters.

Process control module

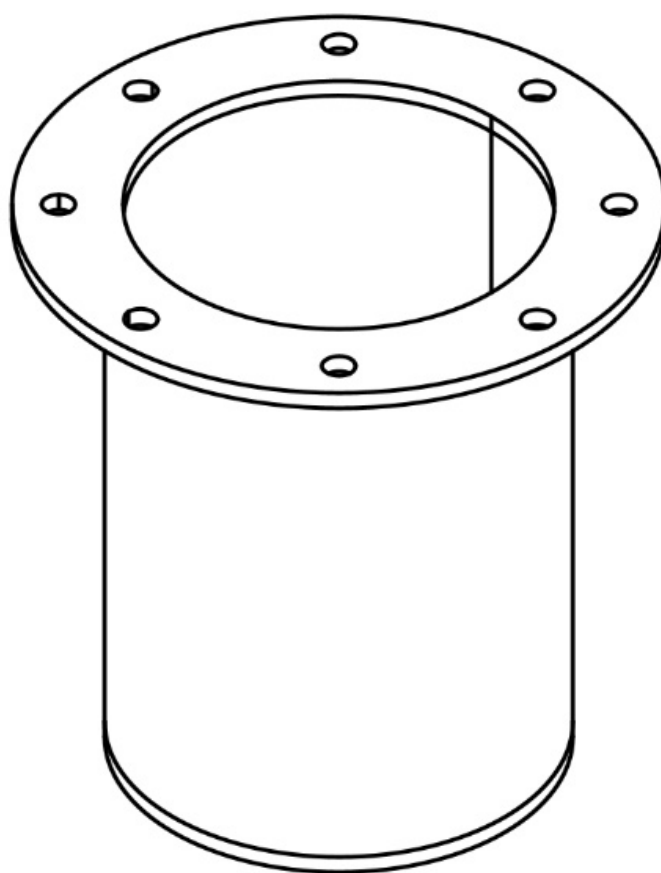


Figure S6 Technical drawing of the casing of the process control module with an oblique front view.

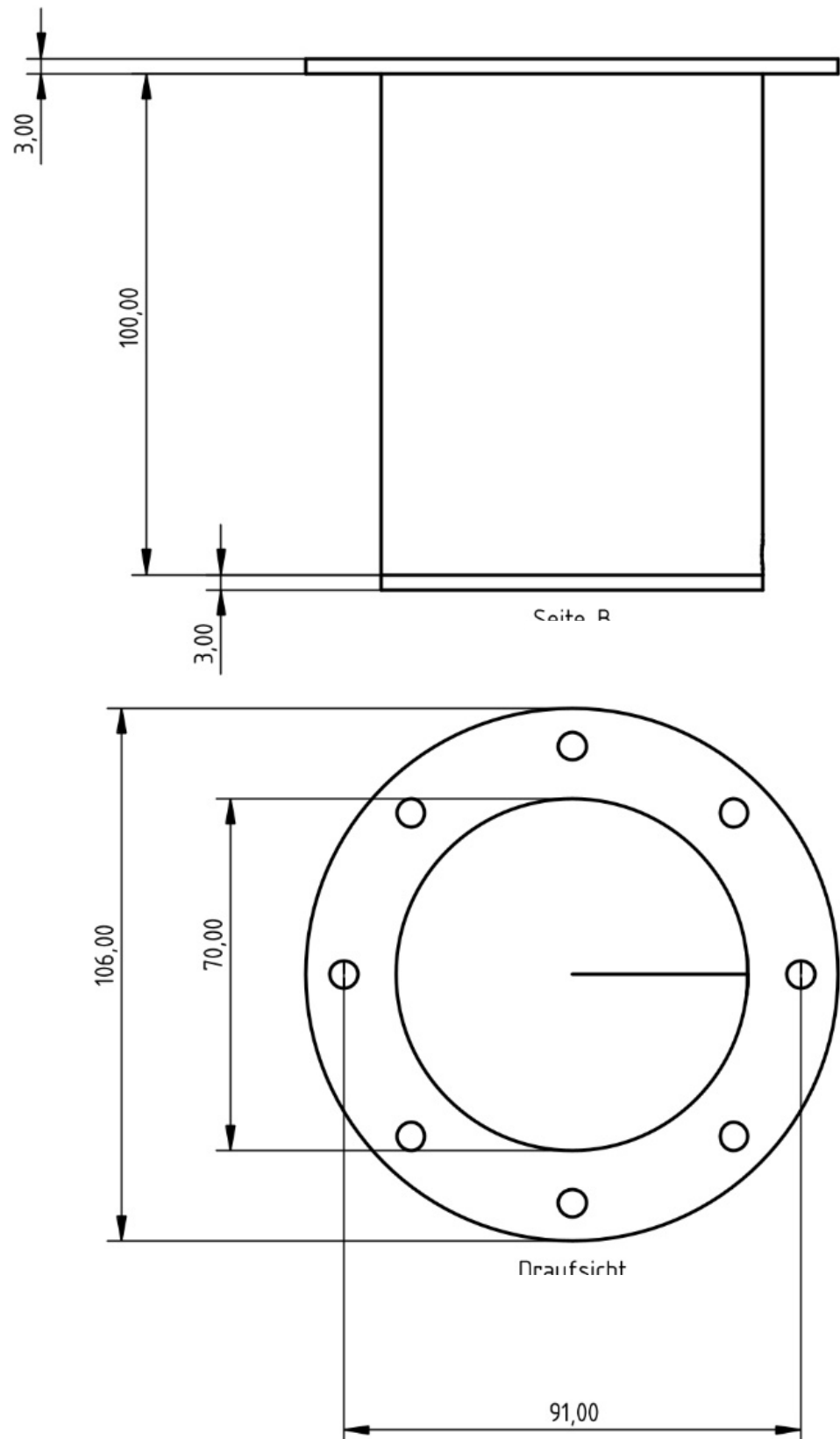


Figure S7 Technical drawings of the casing of the process control module from the side (top) and top view (bottom). Dimensions in millimeters and degrees.

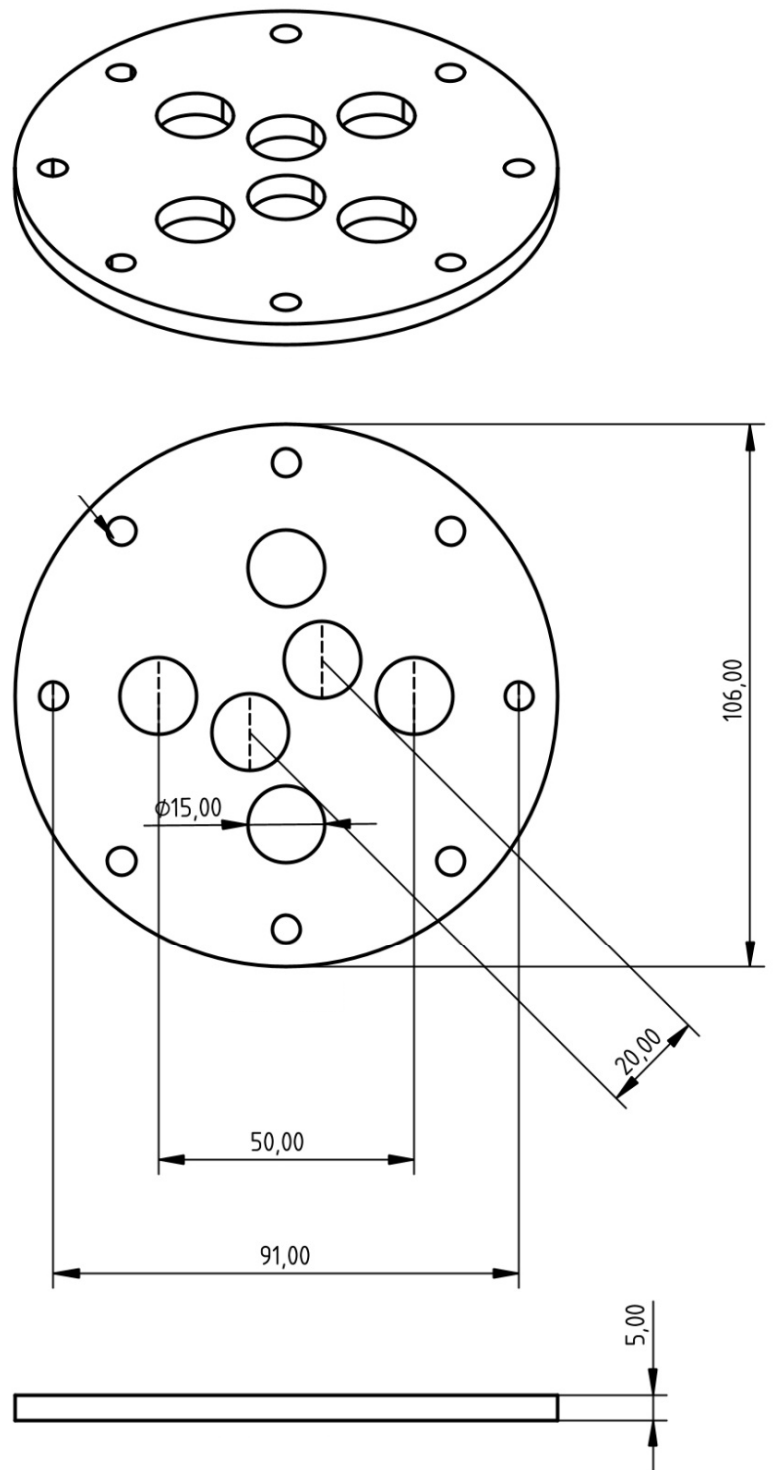


Figure S8 Technical drawings of the cover of the process control module with an oblique front view (top), top view (middle), and side view (bottom). Dimensions in millimeters.