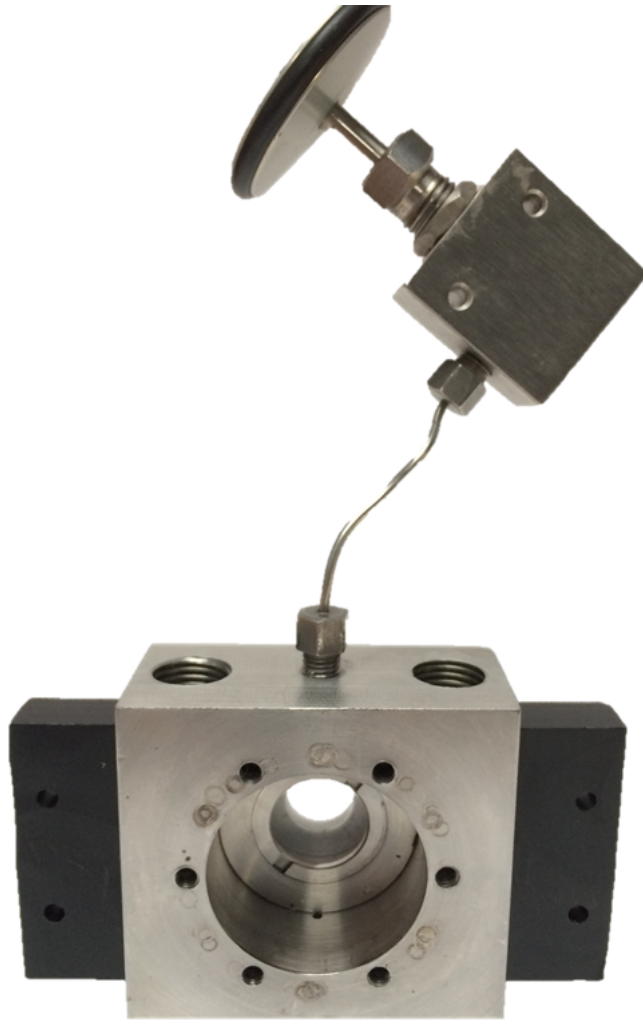


A



B



C

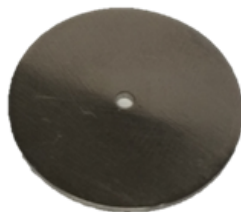
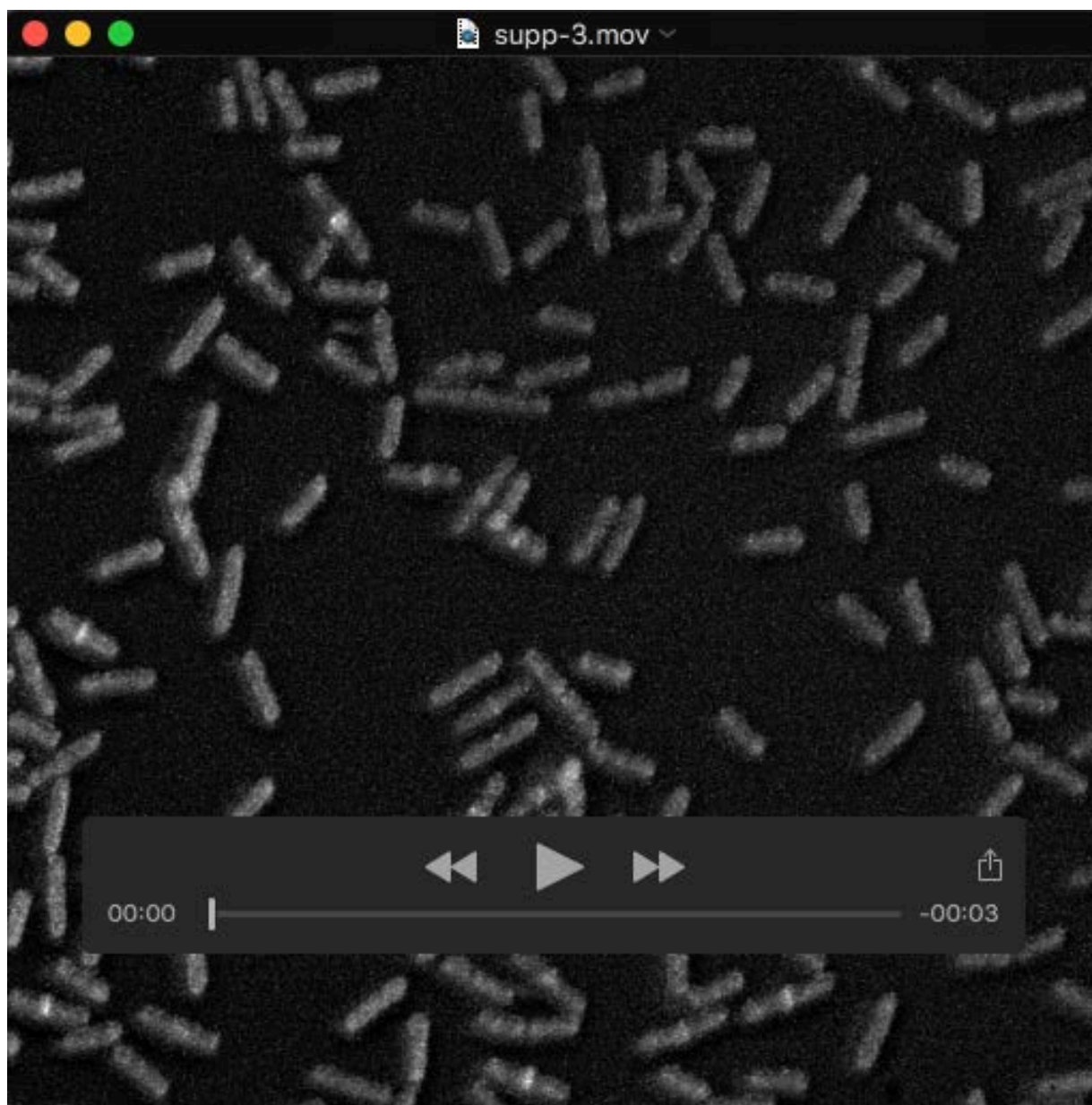


Figure S1. Components of the high pressure live cell fluorescence microscopy chamber. (A) Main chamber with upper transmission light window fitted and release valve attached. (B) Lower observation window and (C) polished steel disc onto which is mounted the quartz coverslip.



Movie S1. Cam1-YFP dynamics in *S. pombe* cells cultured in EMMG at 25°C and 1 atmosphere pressure within the pressure chamber. YFP signal from mid-log phase *cam1.yfp* cells cultured within the pressure imaging chamber. Stage drift was not corrected. Images are maximum projections of 15 x 0.5 μ m spaced z-slice images, captured every 5 min.



Movie S2. Cam1-YFP dynamics in *S.pombe* cells cultured in EMMG at 25°C and 100 bar pressure within the pressure chamber. YFP signal from mid-log phase *cam1.yfp* cells cultured within the pressure imaging chamber. Stage drift was not corrected. Images are maximum projections of 15 x 0.5 μ m spaced z-slice images, captured every 5 min.