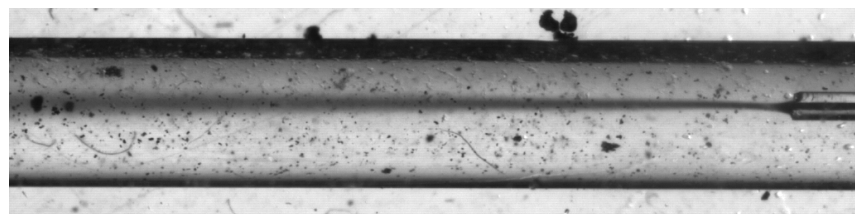
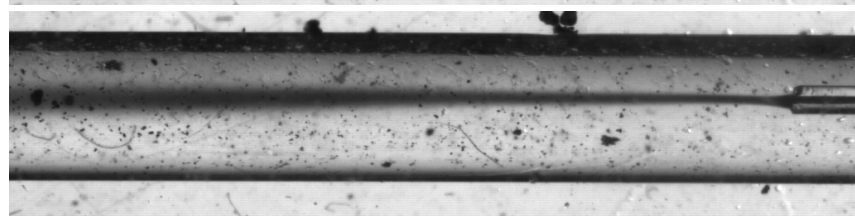


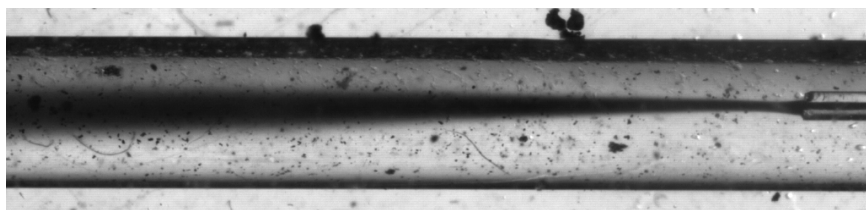
Focusing and de-focusing transition depending on the ratio Q_{out}/Q_{in}
where $Q_{out} = 0.1 \text{ ml/min}$ and $0.250 < Q_{in} < 3 \text{ } \mu\text{l/min}$



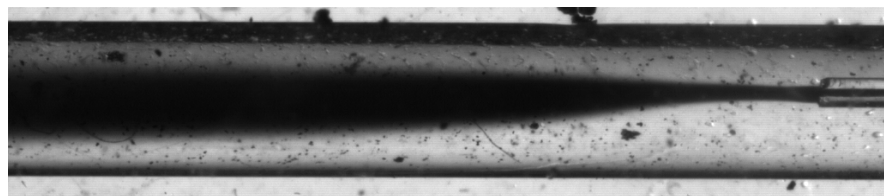
$$Q_{in}/Q_{out} = 400$$



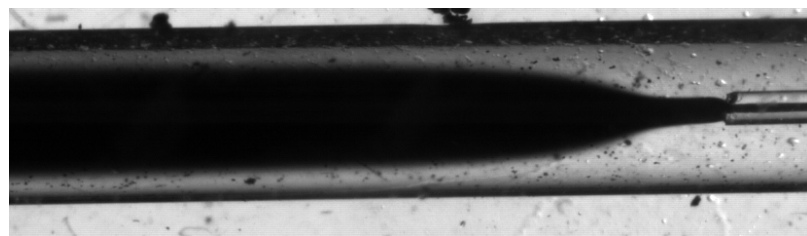
$$Q_{in}/Q_{out} = 312$$



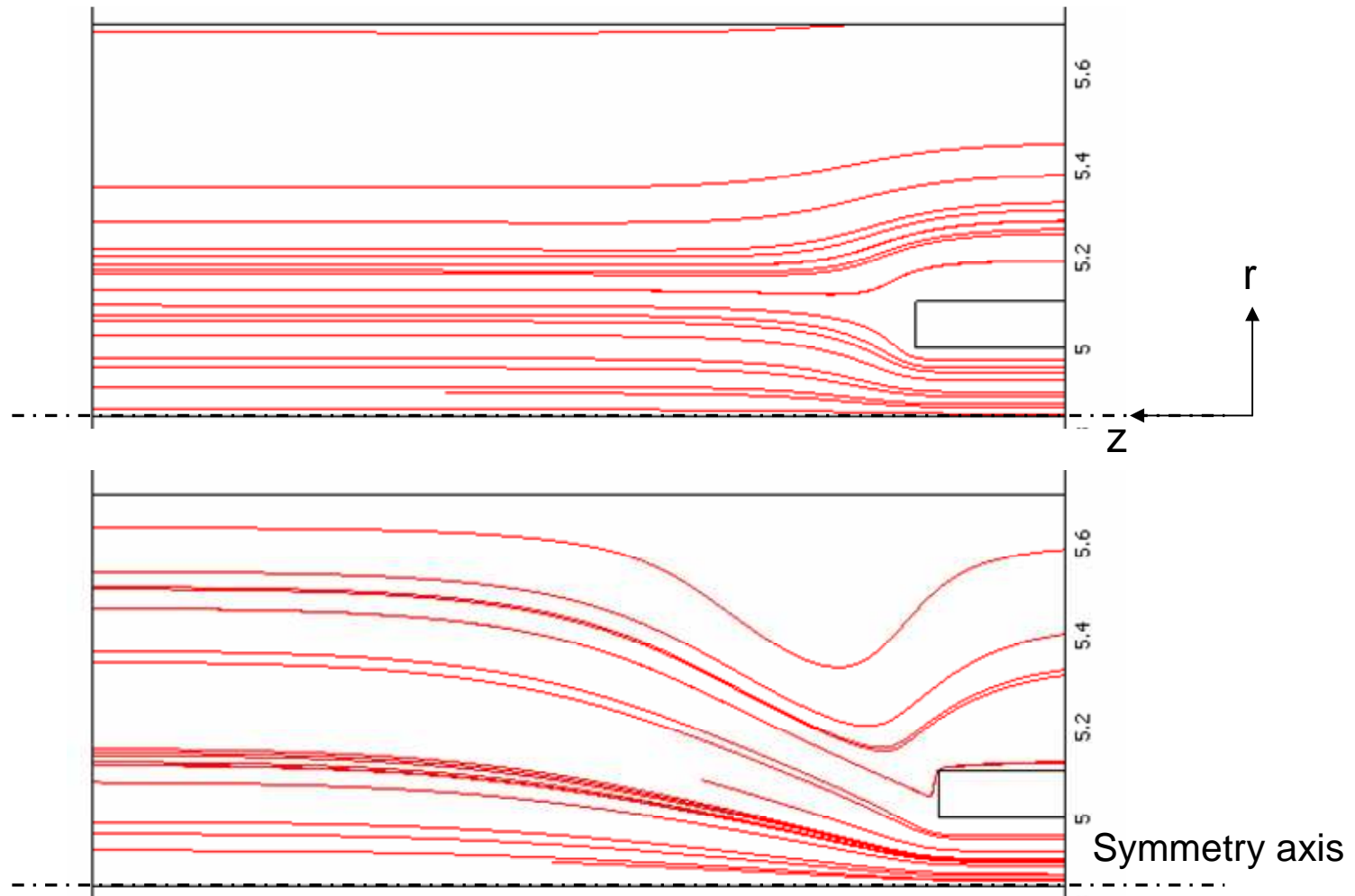
$$Q_{in}/Q_{out} = 200$$



$$Q_{in}/Q_{out} = 100$$



$$Q_{in}/Q_{out} = 33$$



2D axisymmetric COMSOL Multiphysics® simulations of the velocity streamline in the millichannel, where $Q_{out} = 400 \mu\text{l}/\text{min}$ and a) $Q_{in} = 10 \mu\text{l}/\text{min}$; b) $Q_{in} = 100 \mu\text{l}/\text{min}$