

## Fitting the Sensor

Use the dimensions provided in this section to correctly fit the sensor into the cavity to avoid additional grinding of the tip. If additional grinding is necessary to accurately fit the surface of the cavity, follow the directions below.

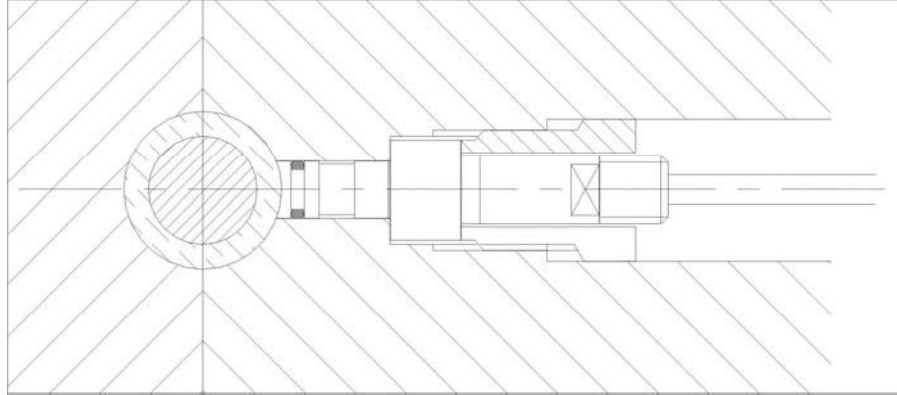


Figure 16: Grinding the Tip

If the sensor has been ground carefully, any measuring error will disappear almost completely after 50 cycles. In the run-in period it is advisable to choose a higher cavity pressure than the expected operating pressure.

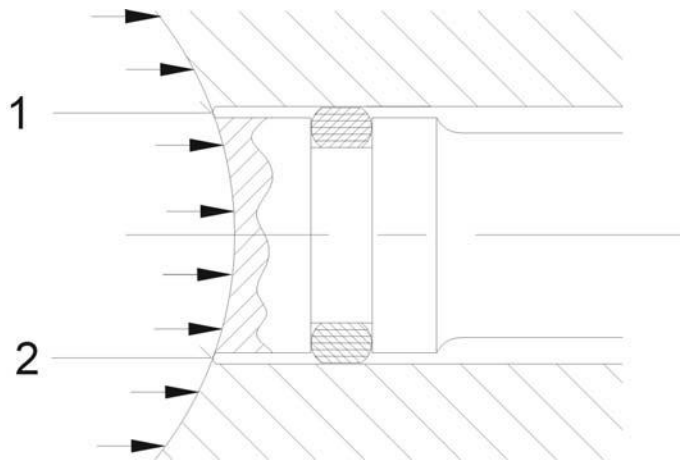


Figure 17: Measuring Errors



Do not grind the front of the sensor more than 0.5 mm.

Asymmetrical grinding of the sensor should be avoided whenever possible. An asymmetrical front surface leads to thrust components in the radial direction which changes the sensitivity of the sensor. In extreme cases, the sensor could touch the mounting hole which leads to considerable measuring errors. An angle of  $\leq 5^\circ$  is tolerated.

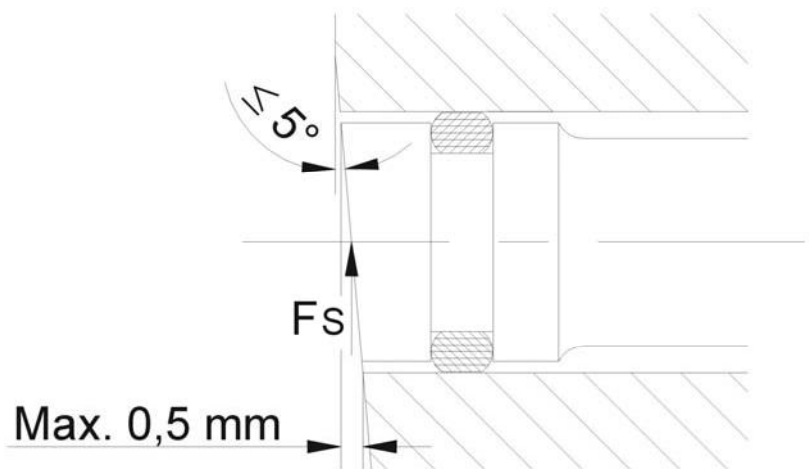


Figure 18: Restrictions when Grinding