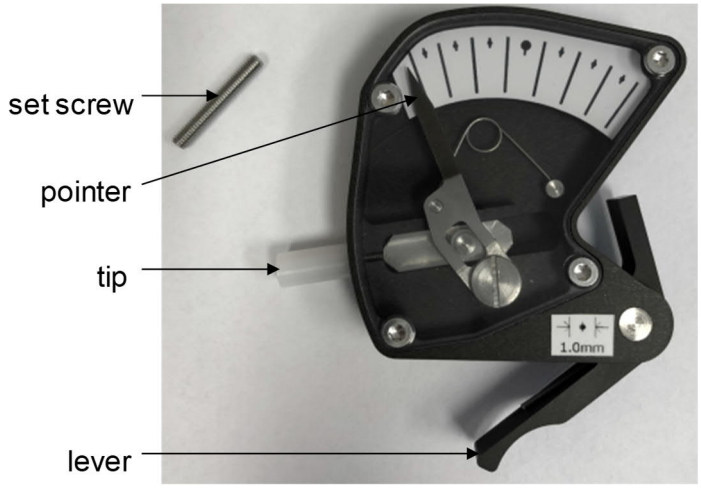
Operation Instructions RIGGTEK AxisProbe (0405.0001)

The centering between shaft and vessel is an important variable that can significantly affect the results of a dissolution test. Incorrect centering can change the fluid hydrodynamics and distort dissolution rates.



Delivery content:

- AxisProbe
- Set screw (3x20mm)

Specifications:

- weight approx. 60g
- max. deflection 7,0 mm
- resolution 0,5mm
- shaft diameter from 8 - 13mm
- vessel diameter 90 – 105 mm

Measuring Centering with the AxisProbe:

- Raise the drive head or the shafts out of the vessels if possible
- Attach the AxisProbe to the shaft (as described by USP/FDA) by pressing the lever
- Lower the head or the shaft into the vessel (push inwards on the plastic tip of the AxisProbe while lowering the shaft/head into the vessel)
  (**Caution:** If the tip of the AxisProbe is not pushed in as it's lowered into the vessel, it may snap of damaging the Probe)

- Set the stirrer speed to the lowest speed (e.g. 30 rpm) or – if possible – rotate the shaft manually
- When the shaft axis and the vessel axis are aligned correctly the AxisProbe pointer doesn't move significantly as it rotates within vessel
- Read the minimum and maximum deflection from the AxisProbe pointer. The difference is the distance measured from the AxisProbe concerning the diameter of the vessel

Hints:

- The AxisProbe is measuring the minimum and maximum deflection of the shaft or spindle position versus the virtual vertical axis of the vessel (diameter). A maximum deviation of ± 2,0mm radius of the vessel (e.g. USP spec.) will be measured by the AxisProbe with the distance/diameter of 4mm
- The individual wobble during routine operation with an attached stirring element (basket or paddle) has to be checked from the operator
- If a vessel is slightly out of round, it may be possible to correct an offset condition, by simply rotating the vessel in its mounting hole (an index mark should be made on the vessel flange, to allow easy restoration of correct alignment after vessel is removed and replaced)
- To measure RIGGTEK and Distek Baths use the set screw (3x25 mm; mounted); for Erweka and Sotax Baths use the enclosed 3x20 mm set screw (to change, loosen the plastic tip (by turning counterclockwise) and unscrew the set screw (you will need an 1,5mm allen wrench))