

Transducer User Guide

Gauging Transducers

Introduction

These products are intended to be used by qualified personnel only.

Mounting the transducers

The transducer may be clamped over the full length of the case. Do NOT over clamp and ensure free movement of the linear bearing. Select an appropriate clamping element which does not deform the case.

Change tip (except 3TLX10P0, 3TLX10P1, 3TLX10 series)

The tip will be firmly tightened to ensure correct results.

To change the tip:

- Slip the bellow (3) with small bellow ring (2) back up the shaft until the key flats become usable (except 3TL10 series)
- Use the supplied key (small opening) on the shaft key flats – never apply torque on the case as this would destroy the mechanics
- Using appropriate pliers, undo the tip
- Change the tip. For pneumatic advanced transducer models an appropriate tip must be used to ensure correct function of the transducer
- Tighten the tip using the same setup as above
- Slide the bellow forward up to the rear face of the tip – check correct position of the small bellow ring

Pretravel setting (except 3TLX10P0, 3TLX10P1, 3TLX10 and 3TL10 series)

Pretravel is set at production to the catalogue value.

If a modification is necessary:

- Use the supplied key (large opening) to undo the lock nut (5)
- Connect the transducer to a compatible electronic readout
- Rotate the tip to the desired reading. The shaft has to be in the fully outward position
- Tighten the lock nut

Pneumatic

The maximum pressure for transducers is as follows:

- Transducer version P, maximum pressure = 1.5 bar
- Transducer version L, maximum pressure = 4.5 bar

Measuring force

The spring may be changed (except 3TL10P0, 3TL10P1, 3TL1P0 and 3TL400D / 5TL400D models). This however calls for a resetting of the pretravel and the sensitivity of the transducer. Only trained personnel with access to the necessary equipment should do such modifications.

Bellow

The bellow has to be clean, not show any cracks and sit firmly on the shaft and the bearing outer.

To change the bellow:

- Disassemble the tip (see procedure described above)
- Screw the large bellow ring (4) towards the back of the thread
- Slide the bellow ring with the small ring off the shaft
- Reverse the procedure to assemble a new bellow

Transducer with changeable cable

Use original cable assembly of the same length exclusively, or the characteristics of the transducer will be changed and not comply with the data sheet.

Extension cable

The use of extension cables do change the characteristics of the transducer and are to be considered in the measuring uncertainty figures.

Maintenance of the transducer

Keep the transducer body, the bellow and the cable assembly clean

- Check the free rolling of the linear bearing
- Check the bellow from firm fixings and cracks
- Check the cable for scratches and cuts

The transducer does not contain user serviceable parts

