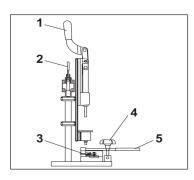
DIY SE I TPE



## DIY: A finished Safety Element SE I TPE in just 8 steps

Before beginning, first switch on the temperature regulating device (260 °C  $\pm$  10 °C) for heating the cartridges – it takes the smelter 10 min to warm up!

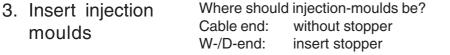
1. Cut contact tubing

2. Soldering

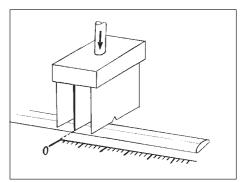
- Measure off required length of contact tubing (see instruction card 09/99)
- Place into double cutting device; point of origin: middle blade
- Make sure that the strands are centrical to the V-cutouts in the blades and only then cut.

Caution: Do not damage the strands!

- Strip the insulation of the contact tubing **Caution:** Donot damage the strands when doing so! If as much as one strand gets cut, the element may not be used further (reject).
- Insert PCB into contact tubing up to the centre of the bore holes
- Solder strand to PCB (see diagram)
- Solder other strand in the same way Use soldering tin as per DIN 8516 F-SW 32

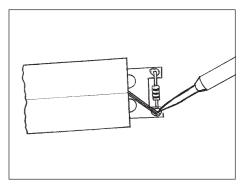


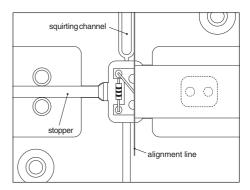
- Insert contact tubing, cambering surface facing upwards
- Position in tool: line contact tubing up to right edge of squirting channel (see diagram)
- Close the small quick-action catch device 3
- Place top part of tool in position, keeping turning lever **5** in position **A**
- Put straining screw with star grip **4** into upright position (with left hand)
- Turn turning lever **5** from position **A** to position **B** as far as straining screw stop (with right hand)
- Tighten straining screw using star grip 4

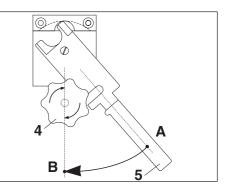


Assembly instructions

Moulding technology

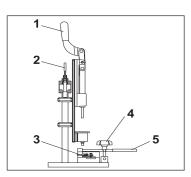






4. Close tool





5. Insert squirting cartridge



6. Injection moulds

7. Remove from tool

8. Retouch work and testing

Assembly instructions DIY SE I TPE Moulding technology

## DIY: A finished Safety Element SE I TPE in just 8 steps

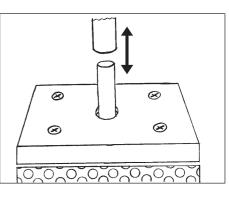
The cartridge must disappear completely into the smelter opening.

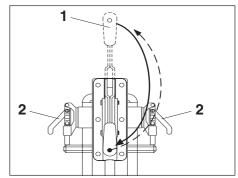
• Put in cartridge and press in gently with finger; using lever **1**, insert cartridge totally into smelter, exit lever **1** immediately

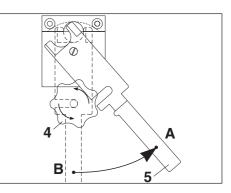
• Allow for 2 min melting period Melting period > 5 min: squirt out material used, clean tool and insert new cartridge

## For good injection mould results, carry out the following briskly:

- Conduct the moving component downwards using quick-action catch devices **2**, until quick-action catch devices can be felt latching
- Push lever 1 downwards in one impetus – at a constantly fast speed
- Return lever **1** to starting point
- Conduct the moving component back up again using quick-action catch devices 2
- Unscrew straining screw using star grip 4
- Set turning lever from position B to position A
- Unscrew top part of tool and lift off *Tip: use lever action*
- Open the small quick-action catch devices **3** and take out contact tubing
- Using a side cutting tool remove protruding sprue and, if applicable, any flashes
- Clean tool completely of any remaining sprue
- Check visually for all round total injection
- Test function according to criteria in box opposite







## Test for function:

 $\begin{array}{l} \mbox{SE1 W with 1.2 k}\Omega \mbox{ and/or SE1 BK} \\ 3.9 \mbox{ V } < \mbox{ U}_{\rm OK} < \mbox{ 4.1 V} \\ \mbox{SE1 W with 8.2 k}\Omega \\ \mbox{ OK: green LED lights up} \\ \mbox{SE1 W with 22.1 k}\Omega \\ \mbox{ OK: green LED lights up} \\ \end{array}$