hotset

tempflex

Flexible temperature channel

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Components and Systems

Heating elements, thermal sensors and process control – hotset is your partner for the realization of intelligent product and service solutions in the field of industrial heating systems and heat technology. Based on our international presence and our own production sites, we operate as a component supplier and development service provider for customers in all industries.

We supply you with components for your series production, we implement complex system solutions for you or we take over entire value chains: your requirements, your goals and your wishes always form the centre of our actions. You benefit from flexible production and logistics structures, an interdisciplinary engineering and over four decades of technology experience.

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Flexible temperature channel

for cooling or heating with oil or water. Flexibility enables cooling and heating to be located close to the outline with a self-defined groove.

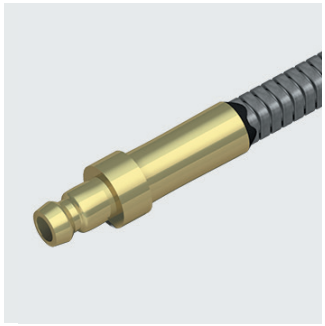
Advantages in Applications

- Cooling and heating at the outline, e. g. close to a cavity
- Replaceable if soiled or blocked
- Corrosion resistant
- Subsequent tool cooling and heating can be easily realized

Technical Key Features	
Sheath material	Stainless steel
Max. temperature	250 °C / 482 °F
Max. pressure	10 bar / 145 psi
Cross-section (outside)	8.0 x 8.0 mm/ 12.0 x 12.0 mm
Length (L)	200 … 2600 mm / 7.9 … 102.3 inch
Length tolerance	≤ 1000 mm: ± 3 mm / ≤ 39.37 inch: ± 0.12 inch > 1000 mm: ± 5 mm / > 39.37 inch: ± 0.2 inch

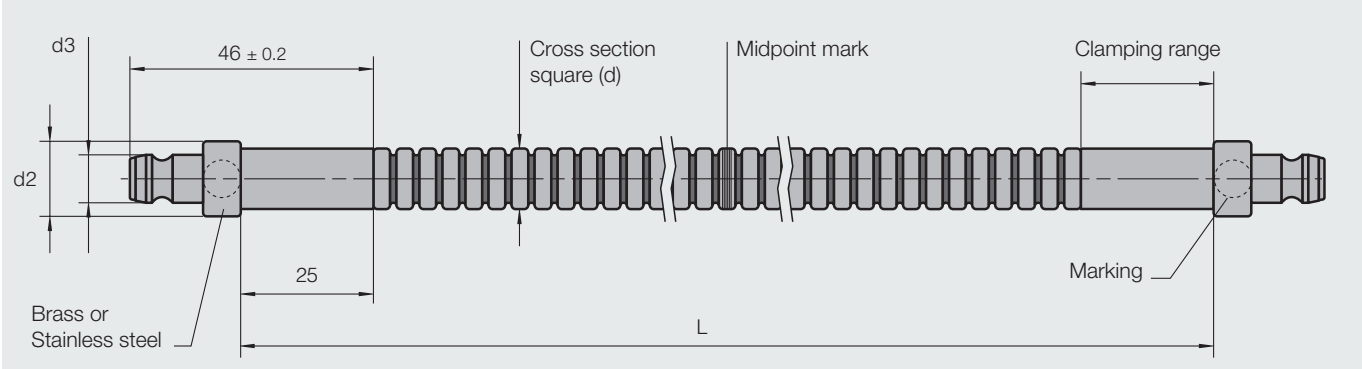
Options

Plug-in coupling
- metric (brass) or
- imperial (stainless steel)



Brass

Stainless steel



Type tempflex (d)	L min [mm]	L max [mm]	d2 max [mm]	d3 max [mm]	Min. Bending radius internal [mm]
☐ 8.0	200	2600	14.0	9.0 or 9.4	10.0
☐ 12.0	200	2600	22.0	13.5	14.0

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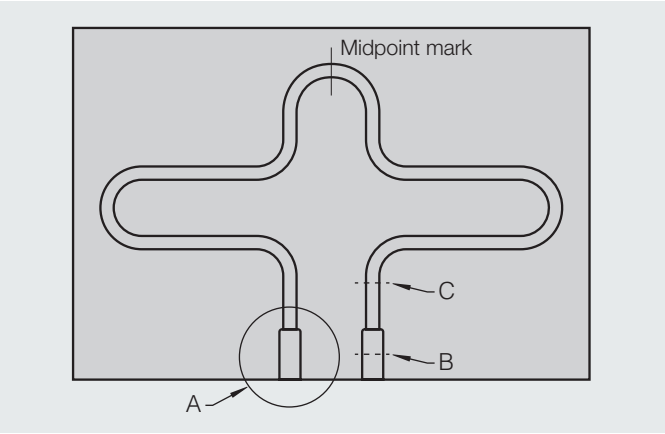
Application Examples

Tool cooling, pre-heating or other tool heating with fluids, e. g.

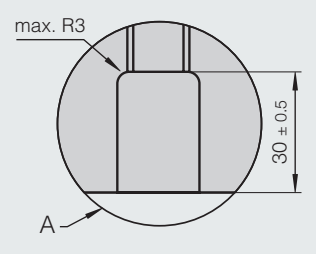
- Extrusion tools
- Thermoforming tools (deep-drawing)
- Die-casting tools

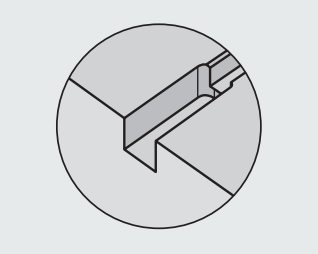


Top view of the tool

Installation instruction

- To stabilize the tempflex the clamping range of the plug-in couplings must be countersunk in the tool by a minimum of 5 mm / 0.2 inch and can be countersunk by a maximum of 25 mm / 0.98 inch.
- Installation order:
  - Fix tempflex at the midpoint mark with a plastic hammer
  - Fix clamping parts of the plug in couplings in recesses
  - Install tempflex evenly in the groove
- Pressure test after installation required

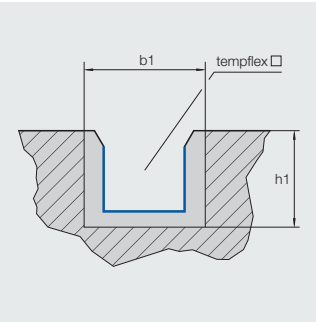




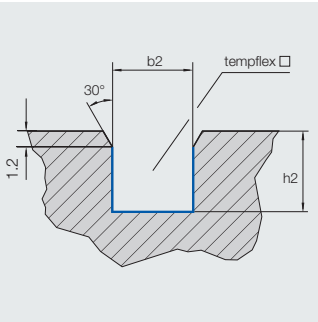
3D view
Milling groove for plug coupling

Recommended groove geometry

Type tempflex	Groove dimensions [mm] b1 x h1	Groove dimensions [mm] b2 x h2
☐ 8.0 $^{\pm 0.1}$	11.5 $^{+0.1}$ x 12.0 $^{+0.1}$	7.8 $^{+0.1}$ x 8.1 $^{+0.1}$
☐ 12.0 $^{\pm 0.1}$	19.1 $^{+0.1}$ x 19.5 $^{+0.1}$	11.8 $^{+0.1}$ x 12.1 $^{+0.1}$



Groove cross-section (B)



Groove cross-section (C)