Manufacturer Declaration

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ELAFLEX hose fittings in compliance with the standards EN 14420-1 to EN 14420-7 for use at higher temperatures

The mentioned standards specify hose tails, safety clamps and hose couplings, including a precise indication of the metals used.
The maximum working temperature for the components is set at 65 °C.

Given that rubber hose assemblies may also be used at substantially higher temperatures – e.g. for chemicals up to 150 °C and asphalt up to 200 °C – the manufacturer of hose fittings shall confirm the maximum working temperature of their components.

We herewith confirm that:

All tails, clamps and couplings according to EN 14420-1 to EN 14420-7 marked by ELAFLEX with the 'ELAFLEX' name or logo are suitable for use at temperatures exceeding those specified in the standards.

Depending on the metals and metal constructions according to the standards the following maximum working temperatures are applicable:

Wrought **aluminium** alloy:	100 °C
Brass, hot stamped or made of semi-finished products:	200 °C
Carbon steel, made of semi-finished product:	250 °C
Stainless steel, investment casting or made of semi-finished products:	250 °C

In this regard it has to be taken into account that any maximum operating pressures specified in the standards shall be reduced as follows:

a. Couplings according to EN 14420-6 (TW) and EN 14420-7 (cam locking):
   The maximum operating pressure shall be reduced to 10 bar:
   - for brass from 150 °C
   - for steel or stainless steel from 200 °C

b. For flange fittings according to EN 14420-4 the Pressure-temperature- ratings which depends on the materials used shall meet all requirements specified in the flange-related standards. Example: a flange according to EN 1092-1 made of stainless steel 1.4406 (13E1) PN 16 is usable for a maximum working pressure of 16 bar at ambient temperature. For a working temperature of 200°C the working pressure has to be reduced to 12,4 bar.

c. Fittings according to EN 14420-2, EN 14420-3 and EN 14420-5: These shall be reduced to a maximum working pressure of 16 bar:
   - for brass from 150 °C
   - for steel or stainless steel from 200 °C

The seals required shall be suitable for the media at the maximum working temperature of the hose assembly.

The user is responsible for ensuring that the fittings and the hose assemblies are suitable for higher temperatures, meeting all applicable safety-related requirements.

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