

1.10 Screw-in heating element G 1½

Model C/Th/RE/3/G 1½ with thermostat, internally regulated

APPLICATION

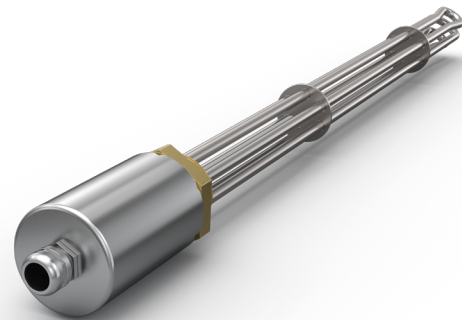
- heating up hydraulic oil
- heating up thin oil, heat transfer oil, quenching oil
- specific surface load 1.5 W/cm² or 2.3 W/cm²

DESIGN

- 3 tubular heating elements made of steel
- 35 mm unheated
- brass nipple G 1½
- thermostat 0 to 120 °C, switching difference 3 K
- bright-galvanized steel-cap, protection type IP 30, with 2nd cable entry for control cable at three-phase current

ELECTRICAL CONNECTION

- up to 3 000 Watt at 230 V single-phase current, thermostat switches directly
- at 3 x 400 V three-phase current, contactor necessary



*picture shows alternative design with protection type IP 65

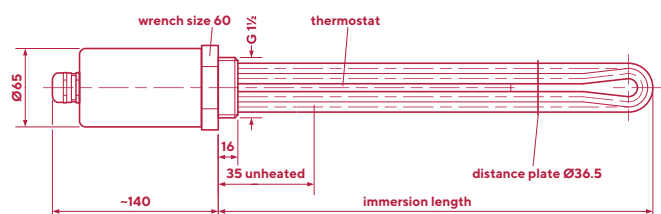
TECHNICAL DATA

IMMERSION LENGTH (APPROX. MM)	POWER (APPROX. WATT)	SURFACE LOAD (WATT/CM ²)	ARTICLE NO.
455	1 000	1.5	01100011
680	1 500	1.5	01100021
880	2 000	1.5	01100031
1 100	2 500	1.5	01100041

IMMERSION LENGTH (APPROX. MM)	POWER (APPROX. WATT)	SURFACE LOAD (WATT/CM ²)	ARTICLE NO.
240	750	2.3	01100111
455	1 500	2.3	01100121
680	2 250	2.3	01100131
880	3 000	2.3	01100141

ALTERNATIVE DESIGN

- other lengths and unheated areas
- other voltage and power
- thread G 2
- brass-screw-cap, protection type IP 65, height 140 mm, cable entry axial
- brass-screw-cap with lid, protection type IP 65, cable entry radial
- other materials, steel- or stainless steel nipple mat.-no. 1.4571 (AISI 316Ti)
- other materials, tubular heating elements mat.-no. 1.4404 (AISI 316L), 1.4541 (AISI 321), 1.4571 (AISI 316Ti) or 1.4828 (AISI 309)



*drawing shows alternative design with protection type IP 65

1.11 Screw-in heating element G 1½

Model C/Th/a/RE/3/G 1½ with thermostat, externally regulated

APPLICATION

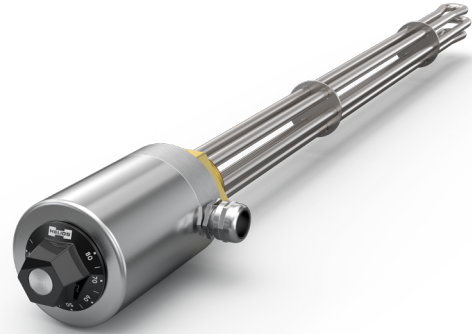
- heating up hydraulic oil
- heating up thin oil, heat transfer oil, quenching oil
- specific surface load 1.5 W/cm² or 2.3 W/cm²

DESIGN

- 3 tubular heating elements made of steel
- 45 mm unheated
- brass nipple G 1½
- thermostat 30 to 110 °C, switching difference 5 K
- bright-galvanized steel-cap, protection type IP 65, cable entry adjustable by 360°

ELECTRICAL CONNECTION

- up to 3 000 Watt at 230 V single-phase current, single-pole thermostat switches directly
- at 3 x 400 V three-phase current, three-pole thermostat switches directly



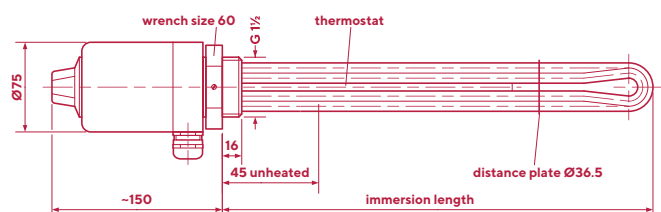
TECHNICAL DATA

IMMERSION LENGTH (APPROX. MM)	POWER (APPROX. WATT)	SURFACE LOAD (WATT/CM ²)	ARTICLE NO.
455	1 000	1.5	01110011
680	1 500	1.5	01110021
880	2 000	1.5	01110031
1 100	2 500	1.5	01110041

IMMERSION LENGTH (APPROX. MM)	POWER (APPROX. WATT)	SURFACE LOAD (WATT/CM ²)	ARTICLE NO.
240	750	2.3	01110111
455	1 500	2.3	01110121
680	2 250	2.3	01110131
880	3 000	2.3	01110141

ALTERNATIVE DESIGN

- other lengths and unheated areas
- other voltage and power
- thread G 2
- thermostat 0 to 85 °C, switching difference 4 K
- cap, protection type IP 65, Ø 75 mm, height 150 mm, immersion length + 15 mm
- plastic case, protection type IP 65, polycarbonate 80 x 82 x 95 mm
- other materials, tubular heating elements mat.-no. 1.4404 [AISI 316L], 1.4541 [AISI 321], 1.4571 [AISI 316TI] or 1.4828 [AISI 309]



1.12 Screw-in heating element G 2

Model C/RE/Th0/2/G 2 with thermostat, internally regulated

APPLICATION

- heating up hydraulic oil or gearbox oil
- heating up thin oils, heat transfer oil
- specific surface load 1.0 W/cm² or 4.0 W/cm²

DESIGN

- 2 tubular heating elements made of steel
- 40 mm unheated
- steel-nipple G 2
- thermostat 0 to 120 °C, switching difference 3 K
- steel-cap, protection type IP 65, cable entry adjustable by 360°



ELECTRICAL CONNECTION

- up to 3 000 Watt at 230 V single-phase current, single-pole thermostat switches directly
- 4 000 Watt at 230 V single-phase current, contactor necessary
- up to 1 500 Watt at 400 V (2~) two-phase current, single-pole thermostat switches directly
- from 5 000 Watt at 400 V (2~) two-phase current, contactor necessary

TECHNICAL DATA

IMMERSION LENGTH (APPROX. MM)	POWER (APPROX. WATT)	SURFACE LOAD (WATT/CM ²)	ARTICLE NO.
290	700	1.0	01120011
390	1 000	1.0	01120021
460	1 250	1.0	01120031
530	1 500	1.0	01120041

IMMERSION LENGTH (APPROX. MM)	POWER (APPROX. WATT)	SURFACE LOAD (WATT/CM ²)	ARTICLE NO.
290	2 800	4.0	01120111
390	4 000	4.0	01120121
460	5 000	4.0	01120131
530	6 000	4.0	01120141

ALTERNATIVE DESIGN

- other lengths and unheated areas
- other voltage and power
- other materials, tubular heating elements mat.-no. 1.4404 (AISI 316L), 1.4541 (AISI 321), 1.4571 (AISI 316Ti) or 1.4828 (AISI 309)

