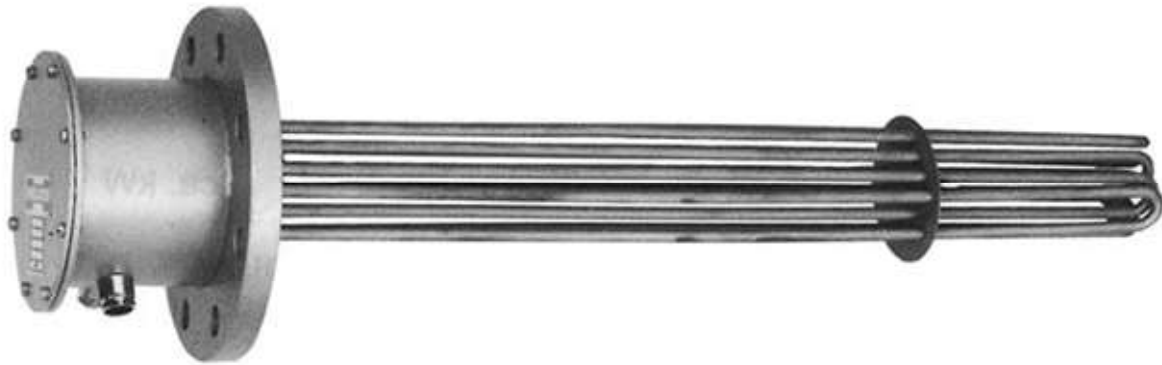
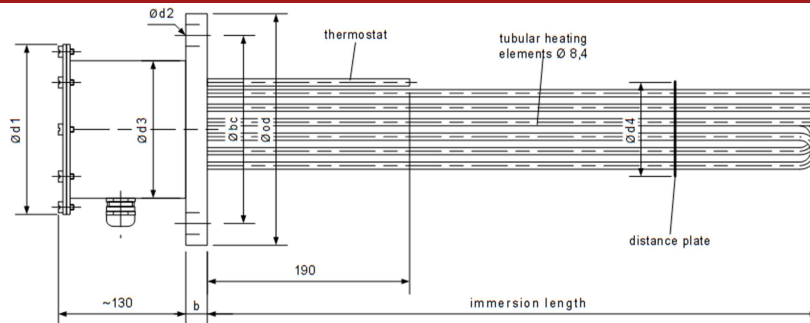


## 4.2 Flange heating element



|                              |   |   |
|------------------------------|---|---|
| <b>Application</b>           | For heating up:   | surface load:                                   |
|                              | a) Fluids that do not attack steel. Hydraulic fluids or similar<br>Heat transfer oil, quenching oil, glycerine  | 1.5 W/cm <sup>2</sup><br>2.3 W/cm <sup>2</sup>  |
|                              | b) Water<br>Low-lime water, water in double jacket or circulation water   | 6.0 W/cm <sup>2</sup><br>10.0 W/cm <sup>2</sup> |
|                              | <b>in case of doubt - ask your oil or fluid supplier for the max. surface load</b>  |   |
| <b>Design</b>                | Steel-flange DIN 2527 / EN 1092-1, PN 16 with U-shaped tubular heating elements Ø 8,4 mm, thermostat 0 to 120°C, differential gap 3 K, single-pole laquered steel hood, IP 30 or IP 65  |   |
|                              | a) tubular heating elements made of steel   |   |
|                              | b) tubular heating elements made of special material mat.-no. 2.4858 (alloy 825)  |   |
| <b>Electrical Connection</b> | up to 3 000 W at 230 V single-phase current, single-pole thermostat switches directly over 3 000 W at 230/400 V three-phase current, contactor necessary<br>48 to 72 kW – 2 switching groups, 108 kW – 3 switching groups and 144 kW – 4 switching groups |   |



|                   |                |     |     |     |     |     |     |     |      |
|-------------------|----------------|-----|-----|-----|-----|-----|-----|-----|------|
| <b>Dimensions</b> | nominal size:  | DN  | 65  | 100 | 125 | 150 | 200 | 250 | mm   |
|                   | heating tubes: |     | 6   | 9   | 12  | 18  | 36  | 54  | pcs. |
|                   | outer diameter | Øod | 185 | 220 | 250 | 285 | 340 | 405 | mm   |
|                   | thickness      | t   | 18  | 20  | 22  | 22  | 24  | 26  | mm   |
|                   | bolt circle    | Øbc | 145 | 180 | 210 | 240 | 295 | 355 | mm   |
|                   | drillings      |     | 4   | 8   | 8   | 8   | 12  | 12  | pcs. |
|                   | drilling       | Ød2 | 18  | 18  | 18  | 22  | 22  | 26  | mm   |
|                   | cover          | Ød1 | 120 | 160 | 200 | 200 | 260 | 310 | mm   |
|                   | hood           | Ød3 | 100 | 130 | 163 | 163 | 220 | 270 | mm   |
|                   | distance plate | Ød4 | 64  | 98  | 123 | 148 | 198 | 245 | mm   |

**Special design** Other lengths, unheated areas, powers, voltages, thread G 2, protection type IP65 and other materials for example: stainless-steel mat.-no. 1.4541 (AISI 321), 1.4571 (AISI 316Ti) and 1.4828 (AISI 309) are available.

Ask for flange heaters for vertically installation

Flow heaters also available, see catalogue page 14.1

