Immersion Heaters

Application examples

- Boilers
- Heating of barrels, tanks and reservoirs
- Oil sumps, oil sump of combustion engines, hydraulic systems
- Steam generators
- Laboratory equipment, medical devices
- Instantaneous flow heaters

DBK's knowledge of thermal management gives us the experience to guide and support you with your technical challenges - we can manage the complete project from concept to full production release.

Immersion heaters are electrical screw-in heating elements for direct heating of liquids, gases, and viscous substances. An immersion heater consists of a blind flange or screw head with several U-shaped tubular heating elements soldered into it. On request, they can be equipped with a temperature limiter or a protective cover. Immersion heaters are frequently used in plant and mechanical engineering or laboratory and medical applications. For immersion heaters, we recommend the use of overheating protection, as a dry run can cause high temperatures at the heating element.

Features

- Defined heat output due to resistance wire technology
- Power according to customer specification
- Operating voltage: 230/400 V
- Two to six tubular heating elements depending on screw head thread
- Installation of thermocouples possible for temperature ranges 0 – 85 °C and 90 – 300 °C
- Screw head made of brass, St 37.2 or stainless-steel thread G 1 1/4", G 1 1/2", G 2", G 3"
- Blind flanges according to DIN 2527 form, material according to customer specification
- Installation with gasket in threaded hole or with locknut; for flat flange version with matching counter flange and bolt circle
- Please note that immersion heaters should not be operated under dry conditions