



hotflex[®]

flexible tubular heater



hotflex® — flexible tubular heater

The hotflex® from hotset is a flexible tubular heater with connections at both ends, which was especially developed for heating of manifolds in hot runner systems. Additionally, the hotflex® can be used everywhere, where conventional tubular heaters have solved heating tasks so far:

- many application possibilities due to numerous technical options, high loading, excellent stability also in alkaline media.

In contrast to conventional tubular heaters, the straight delivered hotflex® will be bent manual to nearly each

required form or put directly into a slot - in consideration of length and diameter. The hotflex® has a high fitting accuracy, because the bending radius is not depending on possible tolerances of formers, but exclusively on the original form. Modifications of the bends are possible at any time without any effort:

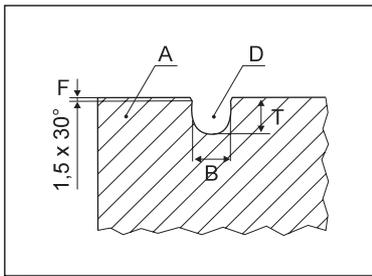
- easy installation, high fitting accuracy, short down times.

Generally, the hotflex® is purchased and stored straight, in consideration of diameter, length and wattage. Purchase expenditure, delivery time and the necessary stockkeeping are

remarkably reduced:

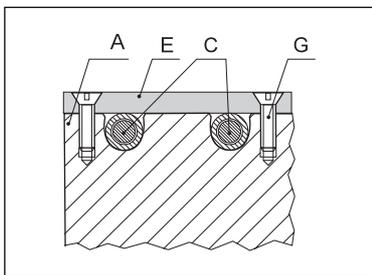
- saving of time due to easy purchasing and short delivery times (delivery of more than 20 measurements directly from stock).
- costs are reduced due to low stockkeeping at high safety of the production run.
- durable application possibilities also at tool modifications or production rearrangements.

The hotflex® is DBPA registered.



The hotflex® can be put directly into a slot of a manifold or knocked in with a plastic hammer.

- A manifold
- D slot: $B = T = \text{hotflex}^\circ - \text{Ø} + 0.1 \text{ mm}$
- F chamfer



Installation advice:
The hotflex® has to be fixed in the slot. Especially suitable are hotset-heat insulation plates (see catalogue „hotset Service and Accessories“).

- A manifold
- C hotflex®
- E heat insulation plate
- G screws for fixing

standard:

- Ø 8.5 mm ($\pm 0.10 \text{ mm}$)
- length and wattage acc. to the right table
- voltage: 230 V
- connection option: threaded pins M 2,5 with set of nuts and washers of stainless steel
- unheated zones (c) min. 30/30 mm
- not bendable zones (d) min 30/30 mm

options:

- Ø 8.0 or 8.2 mm
- other lengths and wattages
- limitation of the wattage tolerance
- other connection voltage
- other connection options
- lengthening of unheated zones

order details:

hotflex®
 + Ø:
 + tube length (a):
 + wattage:
 + voltage:
 + connection option:
 + length of the unheated zones (c):

stock measurements hotflex® Ø 8,5 mm*

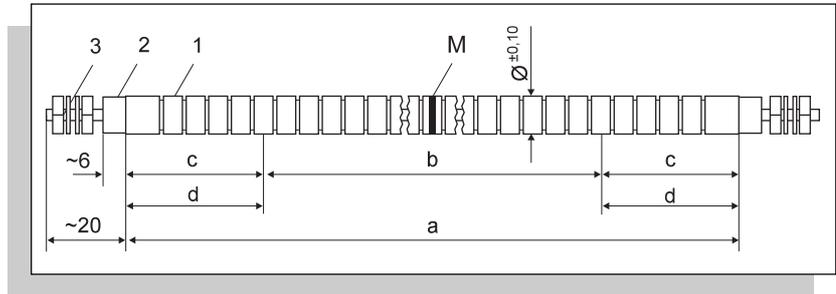
length* (a)	wattage* (alternatively)	
300 mm	650 W	---
350 mm	750 W	---
400 mm	900 W	---
450 mm	1,050 W	---
500 mm	1,150 W	700 W
550 mm	1,300 W	780 W
600 mm	1,450 W	860 W
650 mm	1,600 W	950 W
700 mm	1,750 W	1,000 W
750 mm	1,900 W	1,100 W
800 mm	2,050 W	1,190 W
850 mm	2,200 W	1,250 W
900 mm	2,350 W	1,350 W
950 mm	2,500 W	1,430 W
1,000 mm	2,650 W	1,500 W
1,050 mm	2,800 W	1,590 W
1,100 mm	2,930 W	1,650 W
1,150 mm	3,060 W	1,750 W
1,200 mm	3,190 W	1,830 W
1,250 mm	3,320 W	1,900 W
1,300 mm	3,450 W	1,990 W
1,350 mm	3,580 W	2,070 W
1,400 mm	3,710 W	2,150 W
1,450 mm	3,840 W	2,230 W
1,500 mm	3,970 W	2,300 W

*) diameter 8,5 mm ($\pm 0,10 \text{ mm}$);
length in mm ($\pm 1,5\%$);
wattage in watt ($\pm 10\%$) at 230 V.

hotflex® — flexible tubular heater

- 1 outer sheath: stainless steel (material no. 1.4541)
- 2 ceramic insulator
- 3 threaded pins M 2,5 with set of nuts and washers of stainless steel

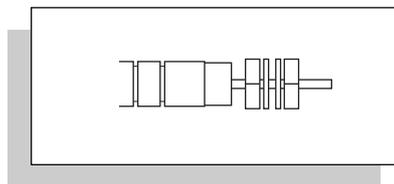
- a tube length
- b flexible heated length
- c unheated zones (min. 30 mm)
- d not bendable zones (min. 30 mm)
- M mark of the middle



technical data hotflex®

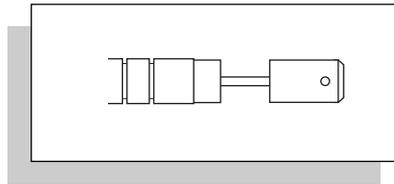
- tube material: stainless steel (material no. 1.4541)
- minimum bending radius: R 10 mm
- extension factors: (remark: when determining the total length, please consider the length tolerance of 1.5%)
 - hotflex® Ø 8.0 mm:
 - at radius R 10 mm = 0.944
 - at radius R 12.5 mm = 0.968
 - at radius R 15 mm = 0.972
 - at radius > R 15 mm = 0.985
 - hotflex® Ø 8.2 mm:
 - at radius R 10 mm = 0.944
 - at radius R 12.5 mm = 0.968
 - at radius R 15 mm = 0.976
 - at radius > R 15 mm = 0.985
 - hotflex® Ø 8.5 mm:
 - at radius R 10 mm = 0.963
 - at radius R 12.5 mm = 0.970
 - at radius R 15 mm = 0.976
 - at radius > R 15 mm = 0.985
- heater sheath temperature: max. 700 °C
- high voltage proof (cold): 1000 V-AC
- insulation resistance (cold): $\geq 5 \text{ MOhm}$ at 500 V-DC
- leakage current (cold): $\leq 0.5 \text{ mA}$ at 253 V-AC
- length (straight): max. 3000 mm
- length tolerance: $\pm 1.5 \%$
- diameter tolerance: $\pm 0.1 \text{ mm}$
- wattage tolerance: $\pm 10 \%$
- connection voltage: max. 250 V
- sheath surface load: max. 15 W/cm² coordinated with application (depending on heated length)

connection options hotflex®

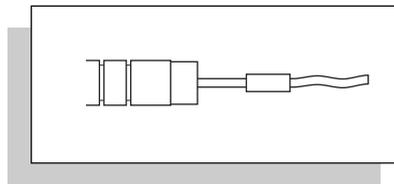


threaded pins

- M 2,5 with set of nuts and washers of stainless steel
- optional M 4 with set of nuts and washers of stainless steel

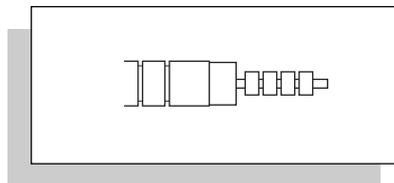


flat plug



glass silk insulated leads

- crimped, with protective sleeving



plain Ni-leads

- with ceramic beads insulation



ceramic terminal connector "plug'n heat"

- ready for installation
- no additional insulation necessary
- measurements (B x H x T) ca. 14 x 21 x 25 mm
- heat resistant up to 230 °C in continuous operation (max. up to 280 °C)

hotset — in Germany and 30 other countries all over the world:



- Argentina
- Australia
- Austria
- Belgium
- Brazil
- Czech Republic
- Denmark
- Finland
- France
- Great Britain
- Greece
- Hongkong
- India
- Israel
- Italy
- Japan
- Korea
- Netherlands
- New Zealand
- Philippines
- Poland
- Portugal
- Singapore
- South Africa
- Spain
- Sweden
- Switzerland
- Taiwan
- Turkey
- USA