



Open
hot runner systems



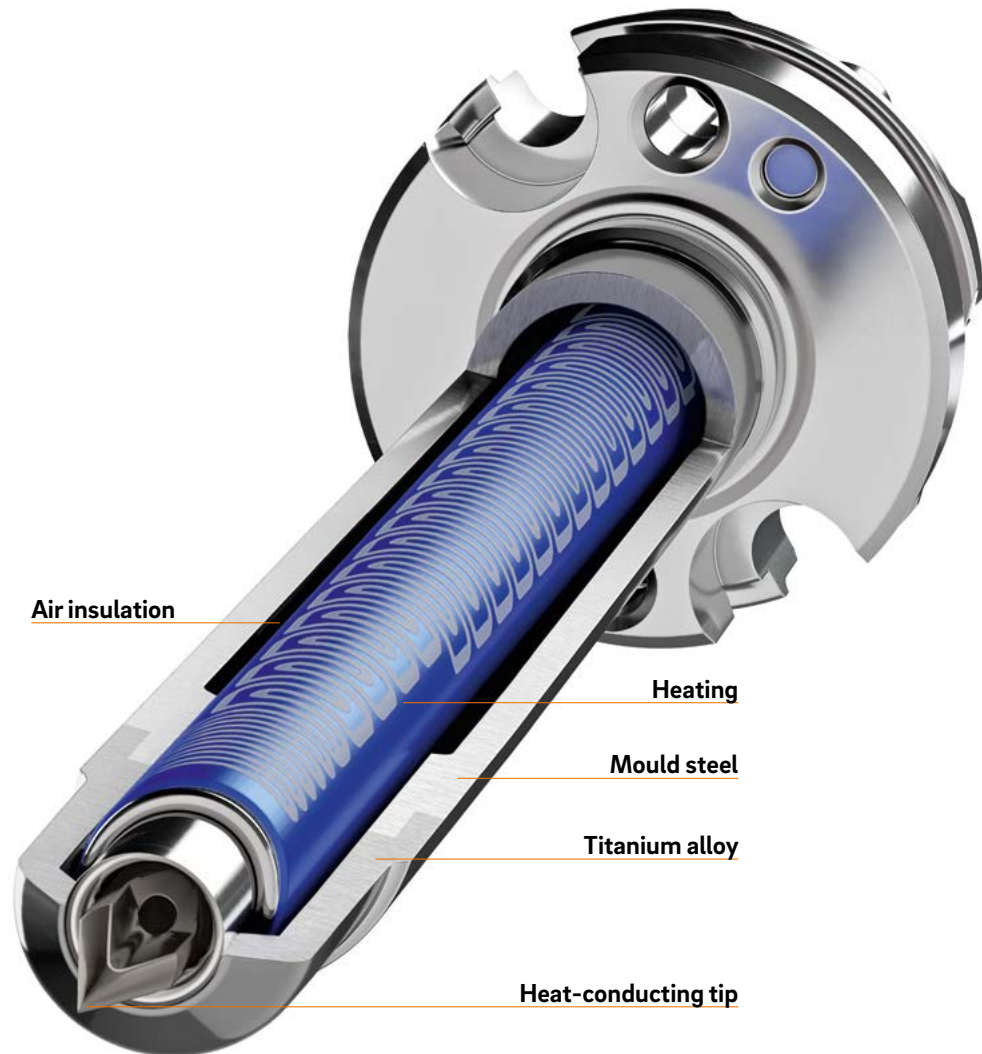
2 Open hot runner systems

| | |
|--|-------------|
| 2.1 Single hot runner nozzles | Page |
| Product overview | 2.1.10 |
| Product details | 2.1.20 |
| 2.2 System hot runner nozzles | |
| Product overview | 2.2.10 |
| Overview of overall design | 2.2.20 |
| Product details | 2.2.30 |
| 2.3 Gate bushings | |
| Product overview | 2.3.10 |
| Overview of overall design | 2.3.20 |
| Product details | 2.3.30 |
| 2.4 Hot runner manifolds/ Rapid systems | |
| Product overview | 2.4.10 |
| Overview of overall design | 2.4.20 |
| Product details | 2.4.30 |
| 2.5 Connecting elements | |
| Product overview | 2.5.10 |
| Overview of overall design | 2.5.20 |



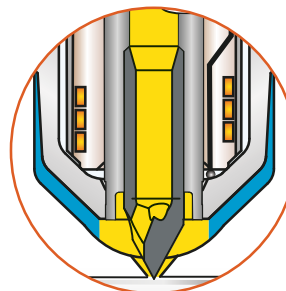
Hot runner nozzles

With their large variety of melt channel diameters, nozzle lengths and gate geometries, the GÜNTHER hot runner nozzle range offers solutions for all the requirements of modern injection moulding technology.

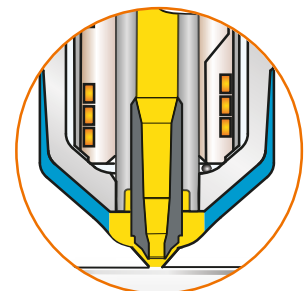


GATE GEOMETRY

A variety of different kinds of gating fulfil complex requirements, such as compliance with special cavity spacing, direct gating with a wide range of different part weights and the implementation of a variety of different nozzle lengths and melt channel diameters.



Open nozzle with tip



Open nozzle with straight outlet

OPEN HOT RUNNER NOZZLES

The various different nozzle types used as a single nozzle or as a nozzle for multi-drop nozzle systems enable the implementation of a very broad range of applications. Thanks to the modular design used, individual components like heaters, sensors, melt channels and nozzle tips can be exchanged. This provides advantages when carrying out repair and maintenance work (time savings, lower repair costs and shorter downtimes).

Thanks to their two part shaft, the outstanding thermal separation of GÜNTHER hot runner nozzles is truly impressive. This ensures outstanding insulation in the front shaft area and therefore extremely minimal heat loss between the hot runner nozzle and the cavity in the mould. This is why GÜNTHER hot runner nozzles are especially suitable for processing thermally sensitive materials, technical plastics and high-temperature-resistant polymers. For filled materials, wear-protected heat-conducting tips provide the best possible protection against mechanical and chemical attack (e.g. glass fibers with heat stabilisers). 3D CAD models of the hot runner nozzles are available in the CADHOC® library.

BLUEFLOW® THICK-FILM HEATING ELEMENT

The BlueFlow® hot runner nozzle sets new standards in the quality and design of moulded parts made of thermally sensitive plastics. It features an especially slim nozzle design with a small outer diameter, but the same melt channel diameter. The heating output in every section of the nozzle is precisely adapted to meet the respective need. This results in a homogeneous temperature profile across the entire nozzle.

The plastic in the melt channel is hardly thermally stressed at all. The physical properties of the end product are also reliably attainable with thermally sensitive plastics and for very small plastic items.

THE ADVANTAGES AT A GLANCE

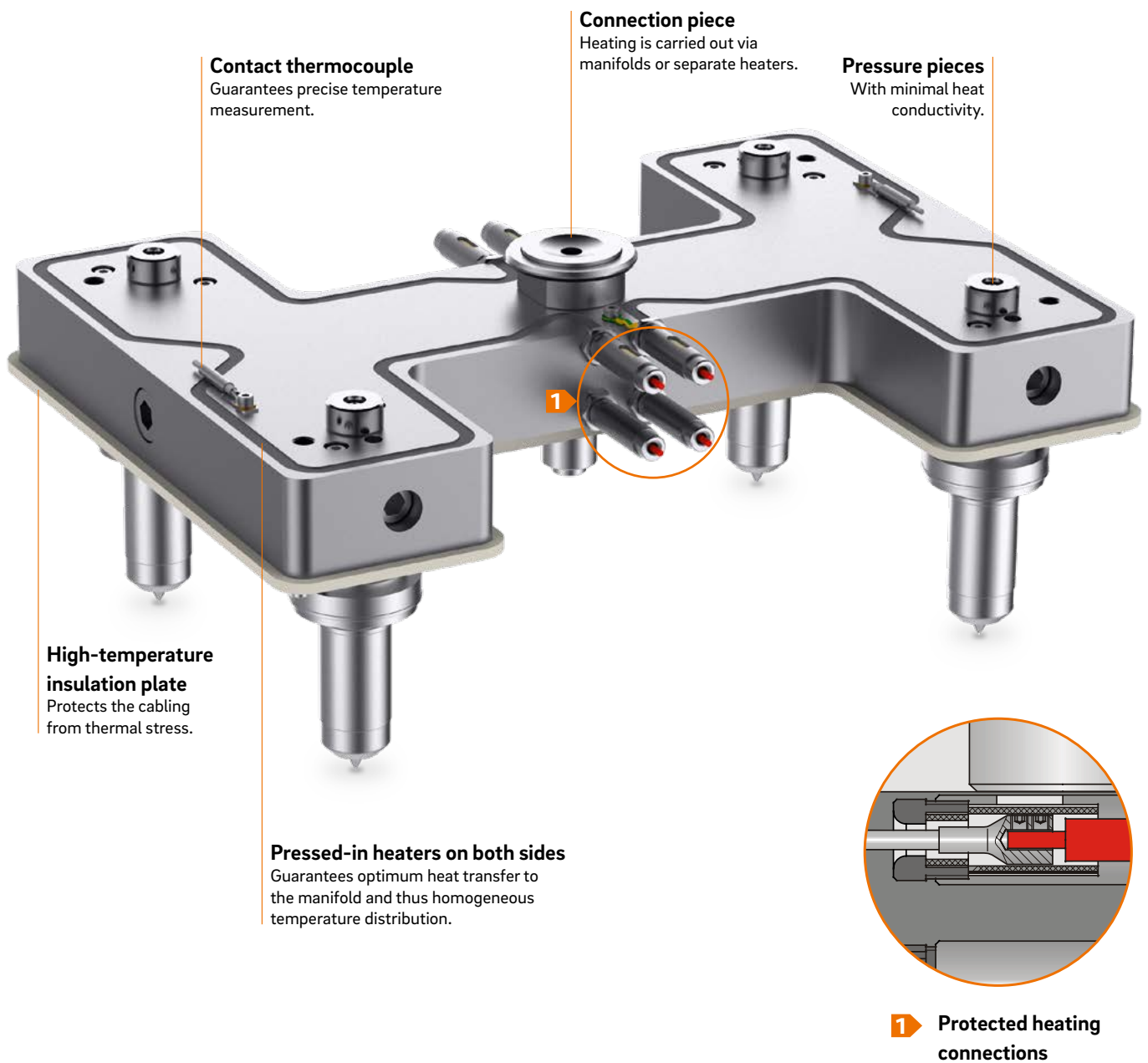
- + Homogeneous temperature management
- + Optimum thermal separation
- + Easy installation and protection against leaks
- + Outstanding insulation in the front nozzle area
- + Very good vestige quality
- + Installation-friendly plug-in type power and thermocouple plug connections
- + Applications up to a process temperature of 450 °C
- + BlueFlow®: hermetically sealed, up to 50% energy savings possible





Manifold systems

Different manifold versions can be selected for different applications, from partially or fully balanced to customer-specific special solutions. Flexible positioning of hot runner nozzles with a manifold make individualised mould design possible.



HOMOGENEOUS TEMPERATURE MANAGEMENT THANKS TO PRESSED-IN HEATERS

All melt-conducting components are heated externally, which ensures optimum plastic flow with the smallest possible pressure loss. Pressed-in heaters on both sides guarantee optimum heat transfer to the manifold block. This results in homogeneous temperature distribution.

PROTECTED POWER PLUG CONNECTIONS – HIGHLY MAINTENANCE FRIENDLY

Steel and ceramic sleeves protect the power connections from damage. Mechanical cleaning of the manifold channels is easy and fast. Cleaning in the fluid bed bath and oven is also possible. The model data in the CADHOC® System Designer library can be configured (and are thus quickly available) for both individual and standard manifolds.

CADHOC® SYSTEM DESIGNER – TOP-NOTCH SOFTWARE PROVIDED FOR YOUR SUPPORT

CADHOC® System Designer enables us to meet your needs for fast provision of product data on everything from individual components to complete hot runner systems, including negative volume.

Among other things, CADHOC® System Designer enables you to:

- Design nozzle sizes in an optimum way
- Select plastic types from a comprehensive list
- Make a direct configuration without any specifications of the processing parameters
- Make an application-based configuration with specifications of the processing parameters

3D CAD models on every hot runner system are available for download in a variety of different data formats. After entering your configuration parameters, you will receive an email with a link to the product data of the configured hot runner system.

RAPID SYSTEMS FROM GÜNTHER

Rapid systems and BlueFlow® nozzles are stored in the CADHOC® System Designer library and are quickly accessible. They enable you as a registered user to configure your rapid system in a very short period of time. You can immediately download all relevant 3D data – including negative volume and price information – quickly, easily and securely. Information on our rapid systems can be found **starting on Page 2.4.140**.

THE ADVANTAGES AT A GLANCE

- + Homogeneous temperature distribution
- + Variable nozzle positions
- + Power connections with external damage protection
- + Easy and fast cleaning
- + Model data is stored in the CADHOC® online library



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2.1 Single hot runner nozzles

SINGLE HOT RUNNER NOZZLES

Page



5SEF/5DEF

Open single nozzle – BlueFlow® thick-film heating element
4.8 mm melt channel diameter

20



8SET/8DET, 12SET/12DET

Open single nozzle – with conventional heating element
7.5 mm/12.0 mm melt channel diameter

30, 40

SYSTEM NOZZLES WITH HEATED ADAPTER AS A SINGLE NOZZLE



4SHF/4DHF + AHJ4, 5SHF/5DHF + AHJ5 and 6SHF/6DHF + AHJ6

Open single nozzle – BlueFlow® thick-film heating element – with heated adapter
3.8 mm/4.8 mm/6.0 mm melt channel diameter

50, 60, 70



5SHT/5DHT + AHJ5 and 6SHT/6DHT + AHJ6

Open single nozzle – with conventional heating element – with heated adapter
4.8 mm/6.0 mm melt channel diameter

80, 90



8SHT/8DHT + AHJ8, 10SHT/10DHT + AHJ10 and 12SHT/12DHT + AHJ12

Open single nozzle – with conventional heating element – with heated adapter
7.5 mm/10.0 mm/12.0 mm melt channel diameter

100, 110, 120



Hot runner nozzle type 5SEF/5DEF

Open single nozzle with thick-film heating element (BlueFlow®)

TECHNICAL DATA

5SEF/5DEF

| | | |
|---|--|----|
| Melt channel Ød | 4.8 mm | |
| Nozzle type | SEF – open with tip DEF – open with straight outlet | |
| Operating voltage | 230 V _{AC} * | |
| Nominal length of the nozzle (L) in mm | | |
| 50 | 60 | 80 |
| ■ | ■ | ■ |
| Adapter | straight (G)/radius (R)/ angle (W) | |

Contact us for other nozzle lengths!

*Volts alternating current

■ available

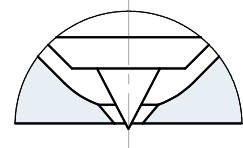
NOTE

Power connector CHF and thermocouple connector CMLK are to be ordered separately.

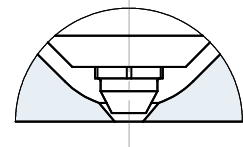
BlueFlow® hot runner nozzle type SEF/DEF is not intended for sale or use in the USA or Canada!



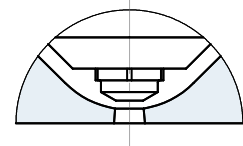
SEF – open nozzle with tip
version "Tip"
Antechamber version A



DEF – open nozzle with straight outlet
version C
Antechamber version A



DEF – open nozzle with straight outlet
version A
Antechamber version C





Hot runner nozzle type 8SET/8DET

Open single nozzle with conventional heating element

TECHNICAL DATA

8SET/8DET

Melt channel Ød 7.5 mm

Nozzle type SET – open with tip
DET – open with straight outlet

Operating voltage 230 V_{AC} *

Nominal length of the nozzle (L) in mm

| | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|
| 50 | 60 | 80 | 100 | 120 | 150 | 200 | 250 |
| ■ | ■ | ■ | ■ | ■ | □ | □ | □ |

Adapter straight (G)/radius (R)/
angle (W)

Contact us for other nozzle lengths!

*Volts alternating current

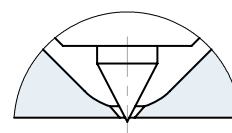
■ available □ on request

NOTE

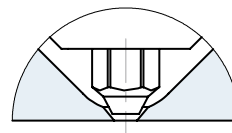
Power connector CMT and thermocouple connector CMLK are to be ordered separately.



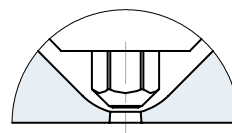
SET – open nozzle with tip
version "Tip"
Antechamber version A



DET – open nozzle with straight outlet
version C
Antechamber version A



DET – open nozzle with straight outlet
version A
Antechamber version C

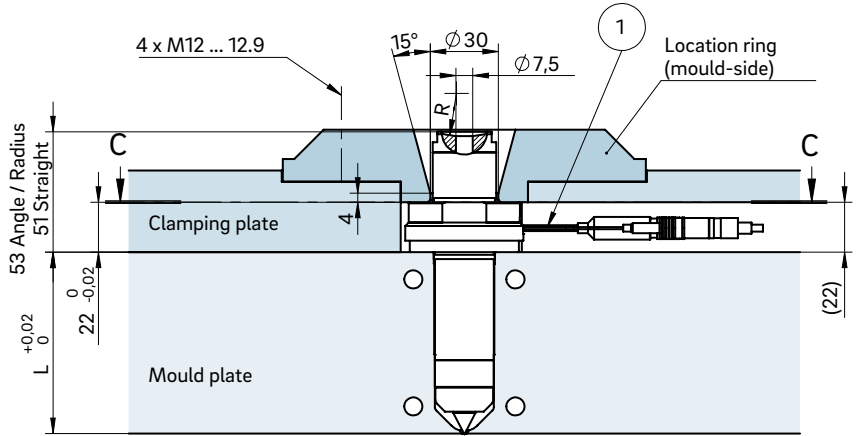
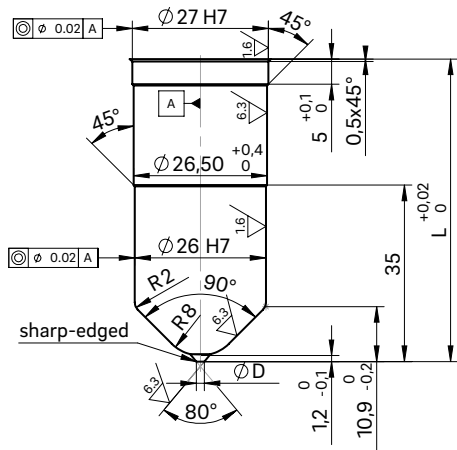


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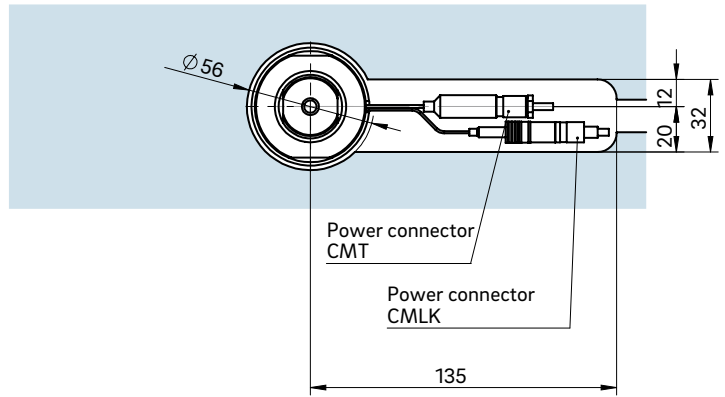
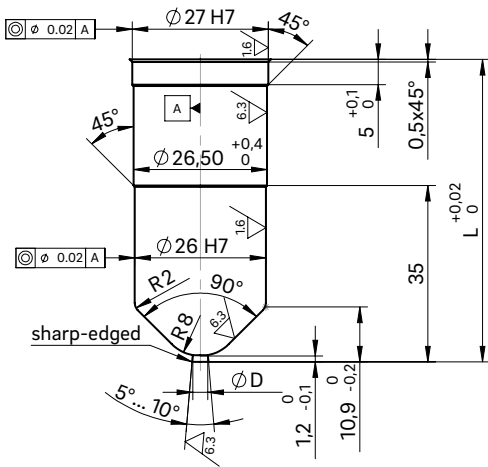
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections

Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



① Power and thermocouple plug connections in this area can be bent once; minimum radius: R8



Hot runner nozzle type 12SET/12DET

Open single nozzle with conventional heating element

TECHNICAL DATA

12SET/12DET

Melt channel Ød 12.0 mm

Nozzle type SET – open with tip
DET – open with straight outlet

Operating voltage 230 V_{AC} *

Nominal length of the nozzle (L) in mm

| | | | | | | |
|----|----|-----|-----|-----|-----|-----|
| 60 | 80 | 100 | 120 | 150 | 200 | 250 |
| ■ | □ | ■ | □ | □ | ■ | □ |

Adapter straight (G)/radius (R)/
angle (W)

Contact us for other nozzle lengths!

*Volts alternating current

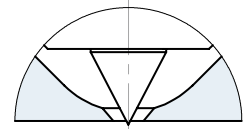
■ available □ on request

NOTE

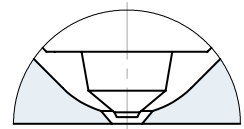
Power connector CMT and thermocouple connector CMLK are to be ordered separately.



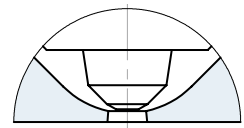
SET – open nozzle with tip
version "Tip"
Antechamber version A



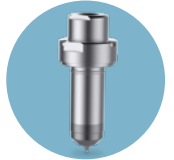
DET – open nozzle with straight outlet
version C
Antechamber version A



DET – open nozzle with straight outlet
version A
Antechamber version C

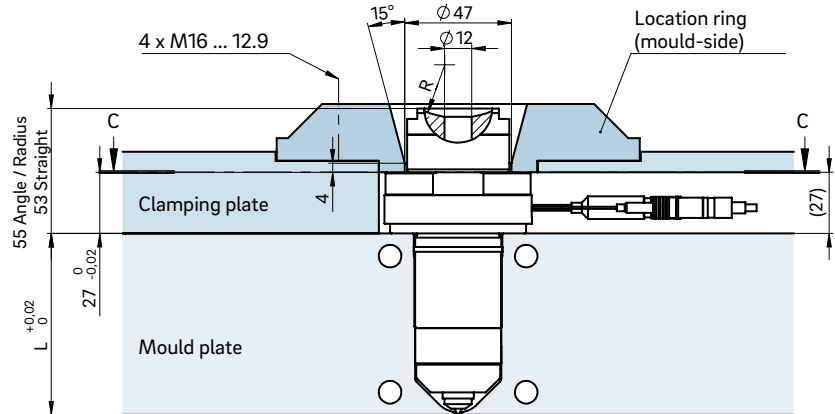
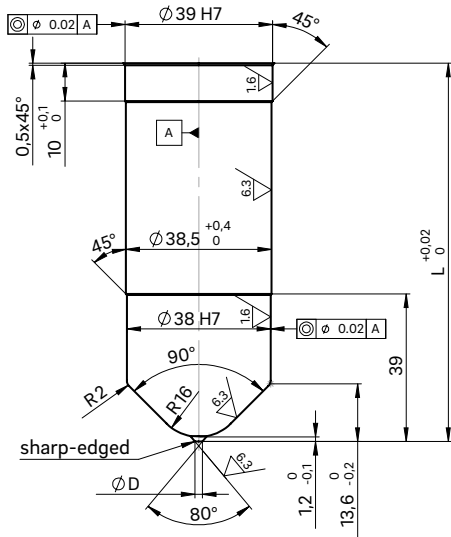


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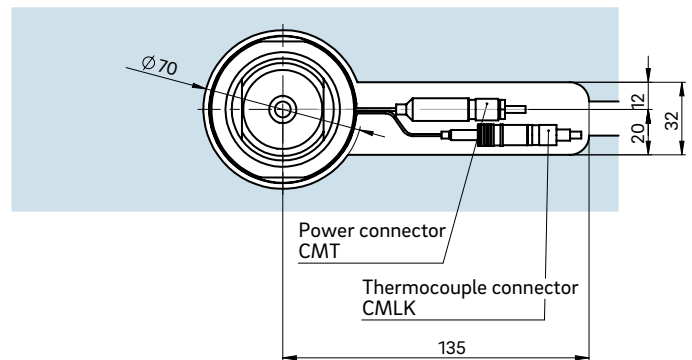
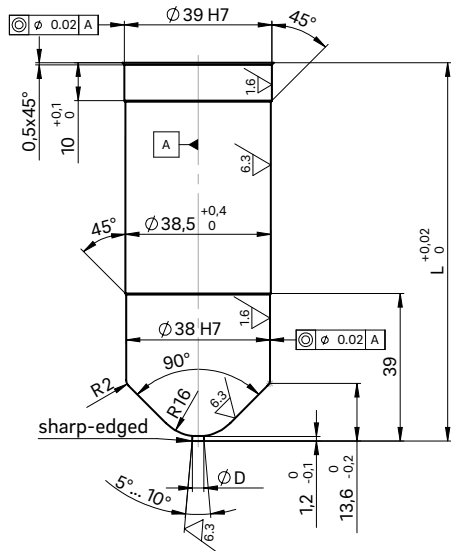
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections

Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



- ① Power and thermocouple plug connections in this area can be bent once; minimum radius: R8



Hot runner nozzle type 4SHF/4DHF with AHJ4

Open single nozzle with thick-film heating element (BlueFlow®) and heated adapter AHJ4

TECHNICAL DATA

4SHF/4DHF

| | | | | | | |
|---|--|----|-----|-----|-----|-----|
| Melt channel Ød | 3.8 mm | | | | | |
| Nozzle type | SHF – open with tip DHF – open with straight outlet | | | | | |
| Operating voltage | 230 V _{AC} * | | | | | |
| Nominal length of the nozzle (L) in mm | | | | | | |
| 50 | 60 | 80 | 100 | 120 | 150 | 180 |
| ■ | ■ | ■ | ■ | ■ | □ | □ |

AHJ4

| | | | | | | |
|--------------------------|---------------------------------------|--|--|--|--|--|
| Melt channel Ød | 4.0 mm | | | | | |
| Operating voltage | 230 V _{AC} * | | | | | |
| Adapter | straight (G)/radius (R)/ angle (W) | | | | | |

Contact us for other nozzle lengths!

*Volts alternating current
 available on request

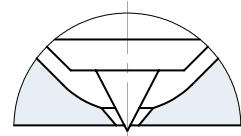
NOTE

Power connector CHF and thermocouple connector CMLK are to be ordered separately.

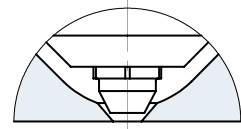
BlueFlow® hot runner nozzle type SHF/DHF is not intended for sale or use in the USA or Canada!



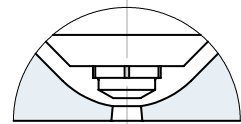
SHF – open nozzle with tip version "Tip" Antechamber version A

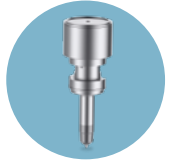


DHF – open nozzle with straight outlet version C Antechamber version A



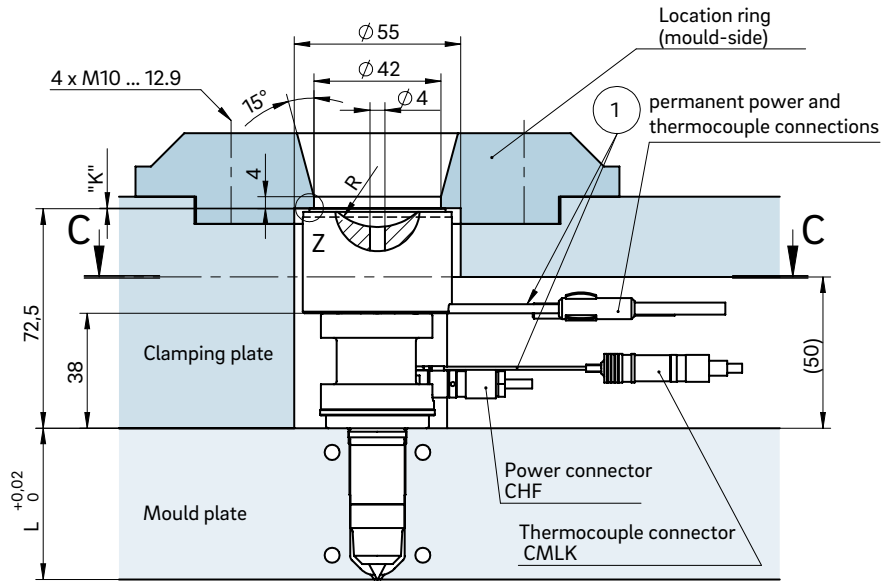
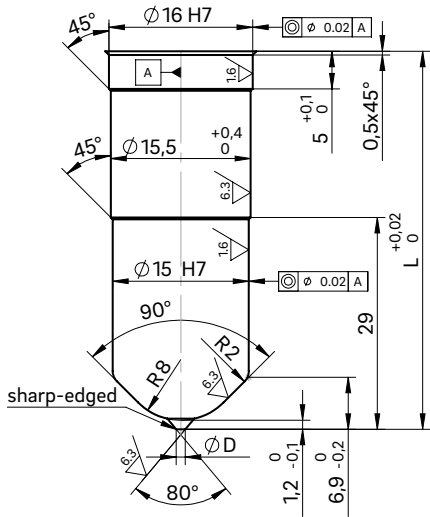
DHF – open nozzle with straight outlet version A Antechamber version C





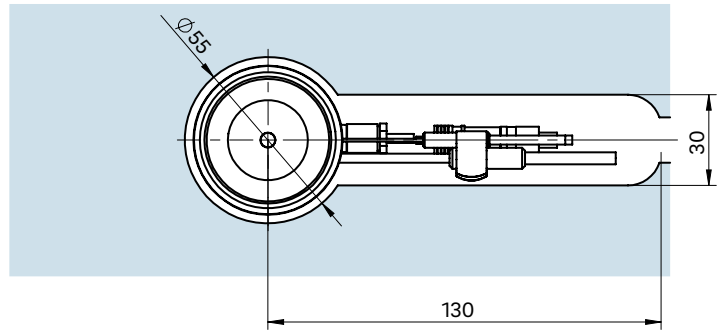
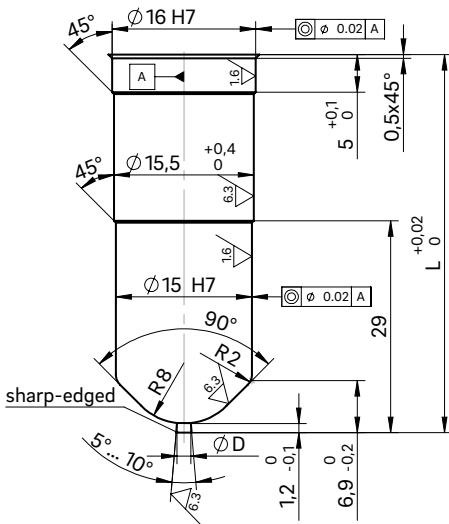
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections

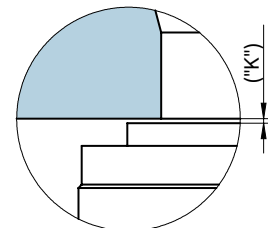
Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



① Power and thermocouple plug connections in this area can be bent once; minimum radius: R8

Dimension "K" required for heat expansion is to be ensured by grinding the location ring! Determine the difference between the height of the nozzle (with mount) and the height of the structure when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

Detail "Z"



| ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|---------|------|------|------|------|------|------|
| K (mm) | 0.06 | 0.08 | 0.09 | 0.11 | 0.13 | 0.16 |



Hot runner nozzle type 5SHF/5DHF with AHJ5

Open single nozzle with thick-film heating element (BlueFlow®) and heated adapter AHJ5

TECHNICAL DATA

5SHF/5DHF

| | |
|-------------------|--|
| Melt channel Ød | 4.8 mm |
| Nozzle type | SHF – open with tip DHF – open with straight outlet |
| Operating voltage | 230 V _{AC} * |

Nominal length of the nozzle (L) in mm

| | | | | | | |
|----|----|----|-----|-----|-----|-----|
| 50 | 60 | 80 | 100 | 120 | 150 | 180 |
| ■ | ■ | ■ | ■ | ■ | □ | □ |

AHJ5

| | |
|-------------------|---------------------------------------|
| Melt channel Ød | 5.0 mm |
| Operating voltage | 230 V _{AC} * |
| Adapter | straight (G)/radius (R)/ angle (W) |

Contact us for other nozzle lengths!

*Volts alternating current

■ available □ on request

NOTE

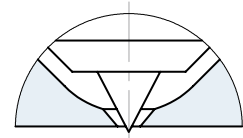
Power connector CHF and thermocouple connector CMLK are to be ordered separately.

BlueFlow® hot runner nozzle type SHF/DHF is not intended for sale or use in the USA or Canada!

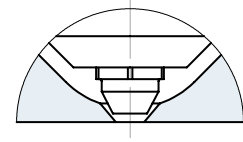
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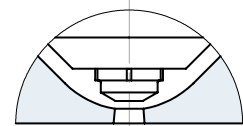
SHF – open nozzle with tip
version "Tip"
Antechamber version A



DHF – open nozzle with straight outlet
version C
Antechamber version A



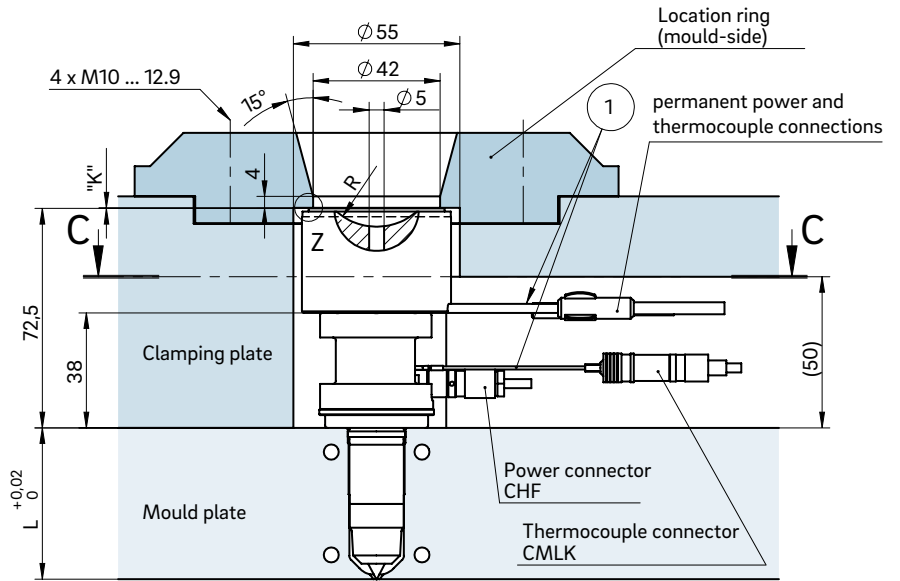
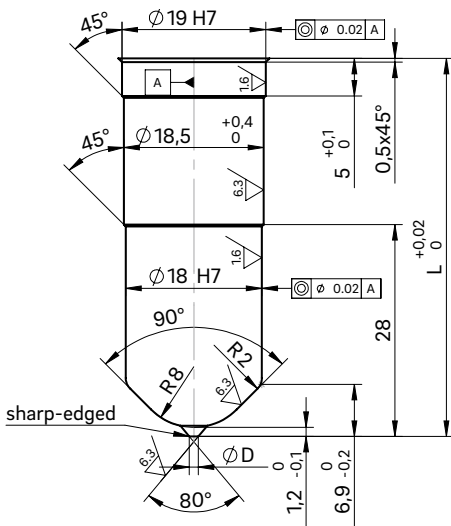
DHF – open nozzle with straight outlet
version A
Antechamber version C





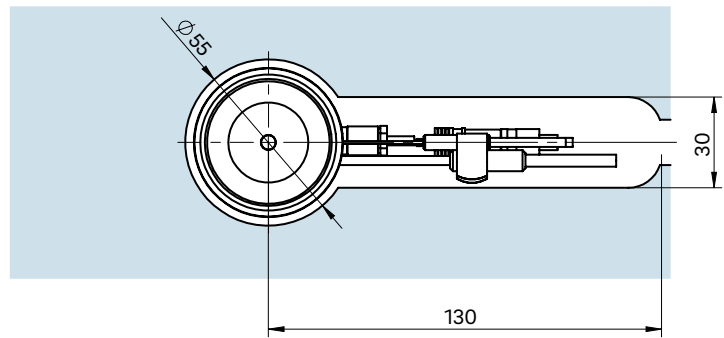
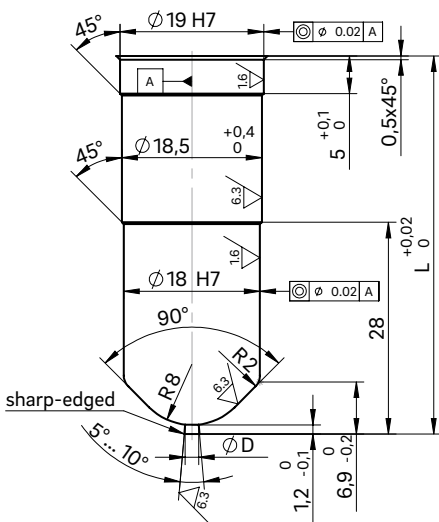
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



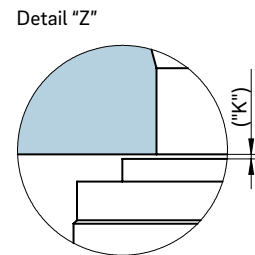
Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections

Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



① Power and thermocouple plug connections in this area can be bent once; minimum radius: R8

Dimension "K" required for heat expansion is to be ensured by grinding the location ring! Determine the difference between the height of the nozzle (with mount) and the height of the structure when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!



| ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|---------|------|------|------|------|------|------|
| K (mm) | 0.06 | 0.08 | 0.09 | 0.11 | 0.13 | 0.16 |



Hot runner nozzle type 6SHF/6DHF with AHJ6

Open single nozzle with thick-film heating element (BlueFlow®) and heated adapter AHJ6

TECHNICAL DATA

6SHF/6DHF

| | |
|-------------------|--|
| Melt channel Ød | 6.0 mm |
| Nozzle type | SHF – open with tip DHF – open with straight outlet |
| Operating voltage | 230 V _{AC} * |

Nominal length of the nozzle (L) in mm

| | | | | | |
|----|----|----|-----|-----|-----|
| 50 | 60 | 80 | 100 | 120 | 150 |
| ■ | ■ | ■ | ■ | ■ | □ |

AHJ6

| | |
|-------------------|---------------------------------------|
| Melt channel Ød | 6.0 mm |
| Operating voltage | 230 V _{AC} * |
| Adapter | straight (G)/radius (R)/ angle (W) |

Contact us for other nozzle lengths!

*Volts alternating current

■ available □ on request

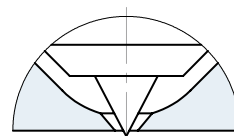
NOTE

Power connector CHF and thermocouple connector CMLK are to be ordered separately.

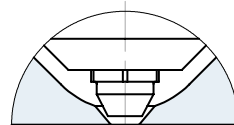
BlueFlow® hot runner nozzle type SHF/DHF is not intended for sale or use in the USA or Canada!



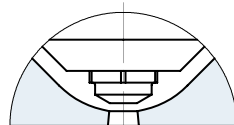
SHF – open nozzle with tip version "Tip" Antechamber version A



DHF – open nozzle with straight outlet version C Antechamber version A



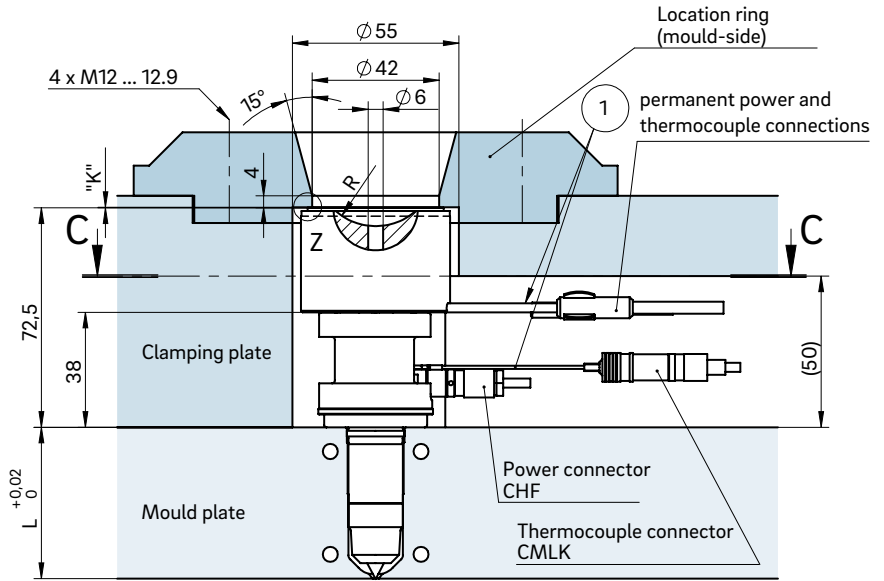
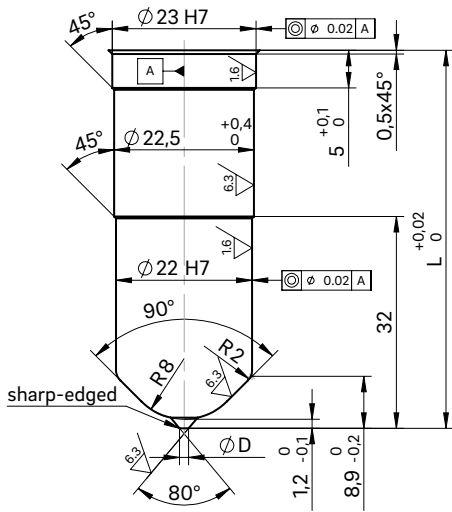
DHF – open nozzle with straight outlet version A Antechamber version C





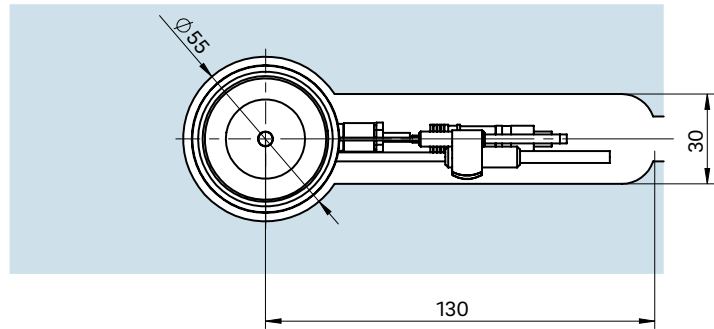
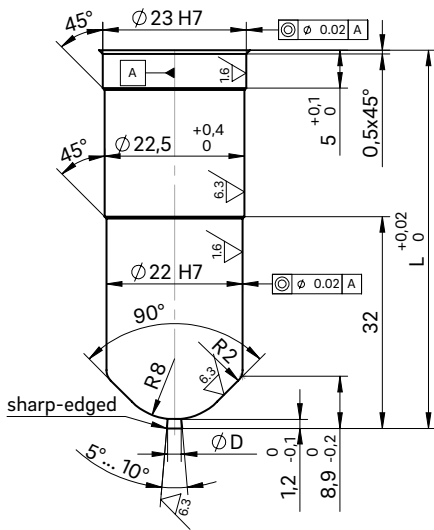
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



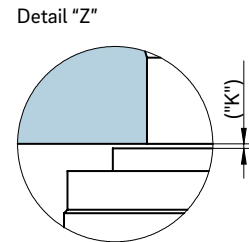
Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections

Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



① Power and thermocouple plug connections in this area can be bent once; minimum radius: R8

Dimension "K" required for heat expansion is to be ensured by grinding the location ring! Determine the difference between the height of the nozzle (with mount) and the height of the structure when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!



| | | | | | | |
|---------|------|------|------|------|------|------|
| ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
| K (mm) | 0.06 | 0.08 | 0.09 | 0.11 | 0.13 | 0.16 |



Hot runner nozzle type 5SHT/5DHT with AHJ5

Open single nozzle with conventional heating element and heated adapter AHJ5

TECHNICAL DATA

5SHT/5DHT

| | | | |
|---|--|----|-----|
| Melt channel Ød | 4.8 mm | | |
| Nozzle type | SHT – open with tip DHT – open with straight outlet | | |
| Operating voltage | 230 V _{AC} * | | |
| Nominal length of the nozzle (L) in mm | | | |
| 50 | 60 | 80 | 100 |
| ■ | ■ | ■ | ■ |

AHJ5

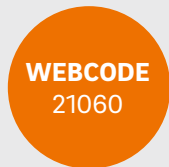
| | |
|--------------------------|---------------------------------------|
| Melt channel Ød | 5.0 mm |
| Operating voltage | 230 V _{AC} * |
| Adapter | straight (G)/radius (R)/ angle (W) |

Contact us for other nozzle lengths!

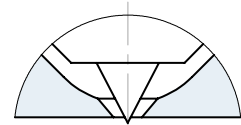
*Volts alternating current
■ available

NOTE

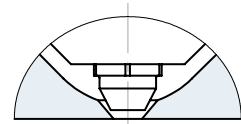
Power connector CMT and thermocouple connector CMLK are to be ordered separately.



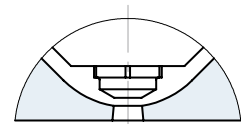
SHT – open nozzle with tip
version "Tip"
Antechamber version A



DHT – open nozzle with straight outlet
version C
Antechamber version A



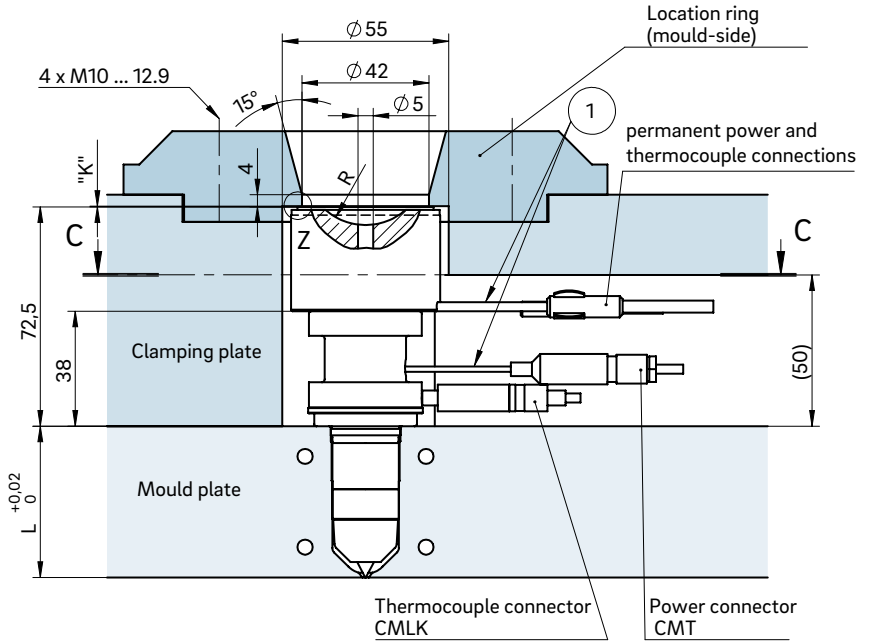
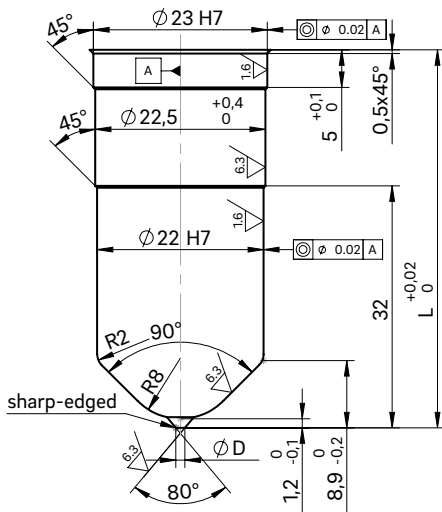
DHT – open nozzle with straight outlet
version A
Antechamber version C



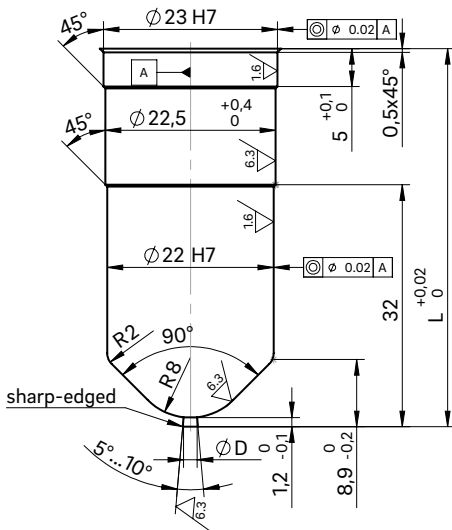


INSTALLATION

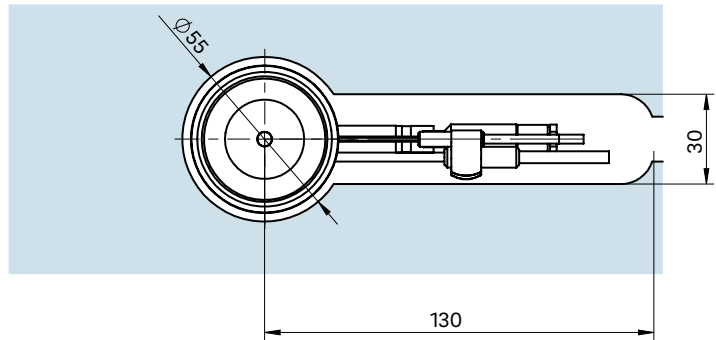
Open nozzle with tip
Nozzle type version C
Antechamber version A



Open nozzle with straight outlet
Nozzle type version A
Antechamber version C

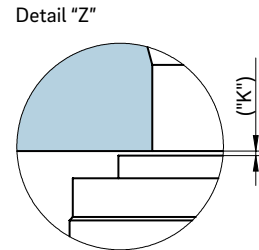


Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections



① Power and thermocouple plug connections in this area can be bent once; minimum radius: R8

Dimension "K" required for heat expansion is to be ensured by grinding the location ring! Determine the difference between the height of the nozzle (with mount) and the height of the structure when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!



| ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|---------|------|------|------|------|------|------|
| K (mm) | 0.06 | 0.08 | 0.09 | 0.11 | 0.13 | 0.16 |



Hot runner nozzle type 6SHT/6DHT with AHJ6

Open single nozzle with conventional heating element and heated adapter AHJ6

TECHNICAL DATA

6SHT/6DHT

| | | | | | | | | |
|---|--|----|----|-----|-----|-----|-----|-----|
| Melt channel Ød | 6.0 mm | | | | | | | |
| Nozzle type | SHT – open with tip DHT – open with straight outlet | | | | | | | |
| Operating voltage | 230 V _{AC} * | | | | | | | |
| Nominal length of the nozzle (L) in mm | 50 | 60 | 80 | 100 | 120 | 150 | 200 | 250 |
| | ■ | ■ | ■ | ■ | ■ | □ | □ | □ |

AHJ6

| | | | | | | | |
|--------------------------|---------------------------------------|--|--|--|--|--|--|
| Melt channel Ød | 6.0 mm | | | | | | |
| Operating voltage | 230 V _{AC} * | | | | | | |
| Adapter | straight (G)/radius (R)/ angle (W) | | | | | | |

Contact us for other nozzle lengths!

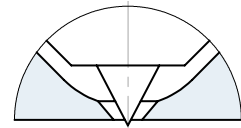
*Volts alternating current
 ■ available □ on request

NOTE

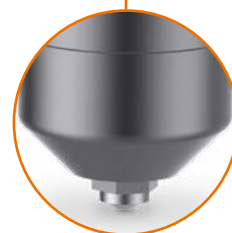
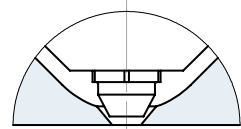
Power connector CMT and thermocouple connector CMLK are to be ordered separately.



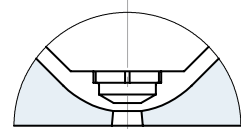
SHT – open nozzle with tip
version "Tip"
Antechamber version A



DHT – open nozzle with straight outlet
version C
Antechamber version A



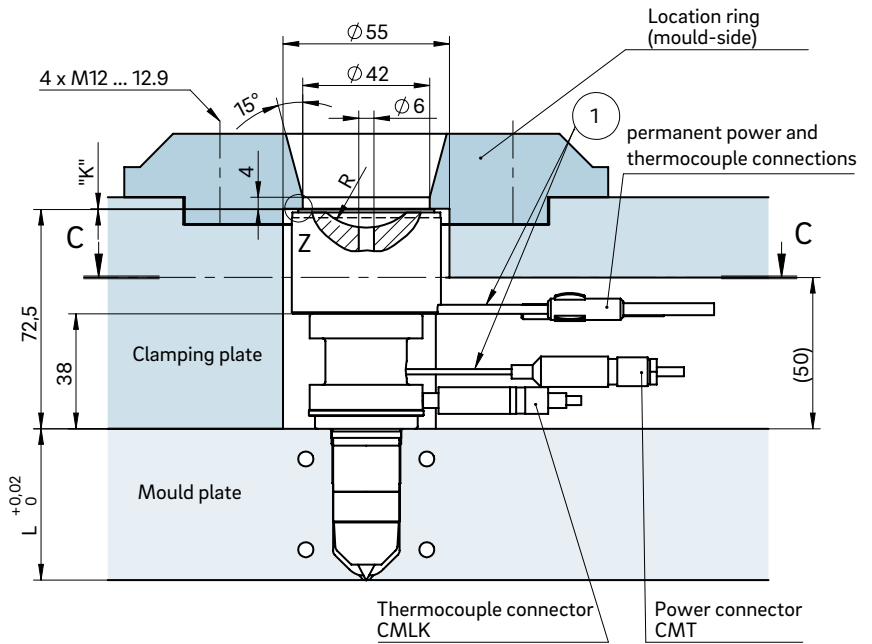
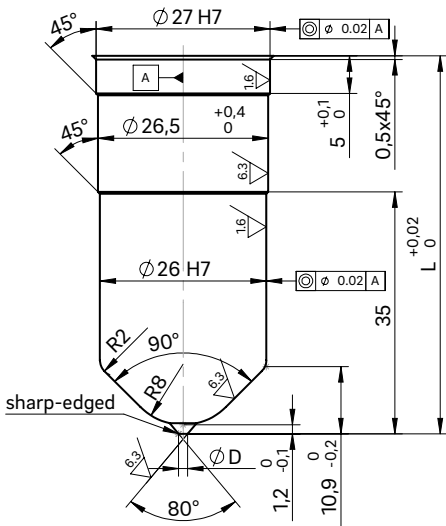
DHT – open nozzle with straight outlet
version A
Antechamber version C



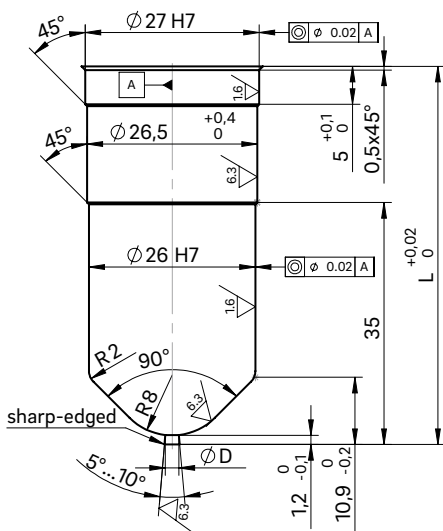


INSTALLATION

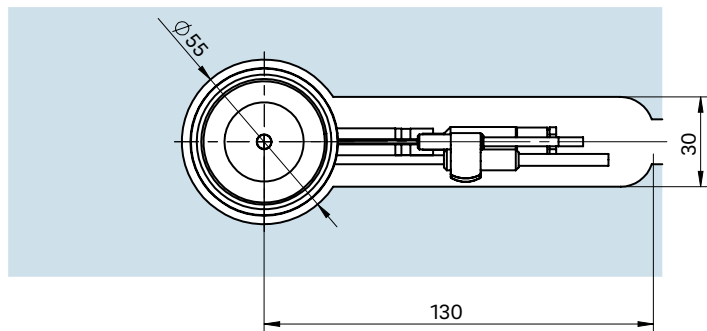
Open nozzle with tip
Nozzle type version C
Antechamber version A



Open nozzle with straight outlet
Nozzle type version A
Antechamber version C

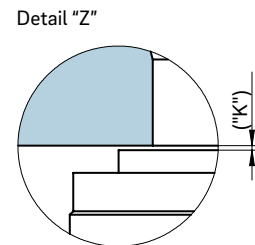


Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections



① Power and thermocouple plug connections in this area can be bent once; minimum radius: R8

Dimension "K" required for heat expansion is to be ensured by grinding the location ring! Determine the difference between the height of the nozzle (with mount) and the height of the structure when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!



| | | | | | | |
|-----------------|------|------|------|------|------|------|
| ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
| K (mm) | 0.06 | 0.08 | 0.09 | 0.11 | 0.13 | 0.16 |



Hot runner nozzle type 8SHT/8DHT with AHJ8

Open single nozzle with conventional heating element and heated adapter AHJ8

TECHNICAL DATA

8SHT/8DHT

Melt channel Ød 7.5 mm

Nozzle type SHT – open with tip
DHT – open with straight outlet

Operating voltage 230 V_{AC} *

Nominal length of the nozzle (L) in mm

| | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|
| 50 | 60 | 80 | 100 | 120 | 150 | 200 | 250 |
| ■ | ■ | ■ | ■ | ■ | ■ | □ | □ |

AHJ8

Melt channel Ød 6.0 mm

Operating voltage 230 V_{AC} *

Adapter straight (G)/radius (R)/
angle (W)

Contact us for other nozzle lengths!

*Volts alternating current

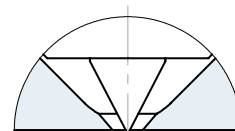
■ available □ on request

NOTE

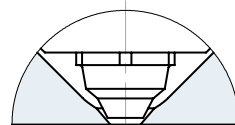
Power connector CMT and thermocouple connector CMLK are to be ordered separately.



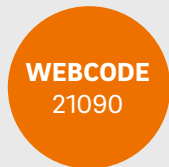
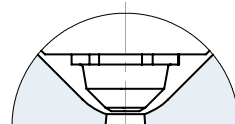
SHT – open nozzle with tip
version "Tip"
Antechamber version A

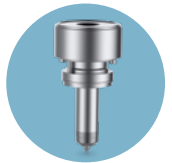


DHT – open nozzle with straight outlet
version C
Antechamber version A



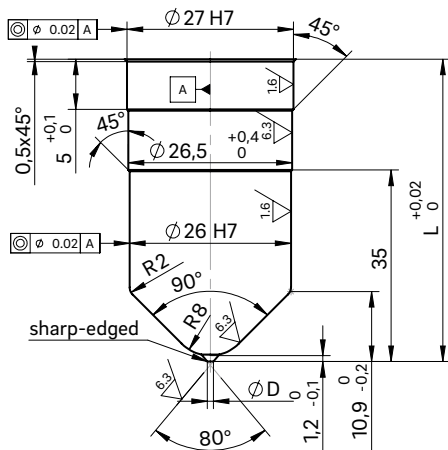
DHT – open nozzle with straight outlet
version A
Antechamber version C



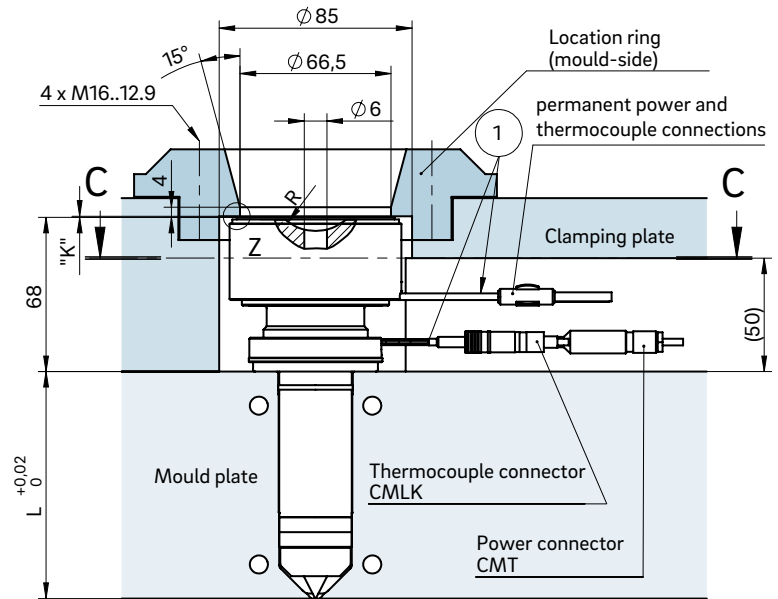
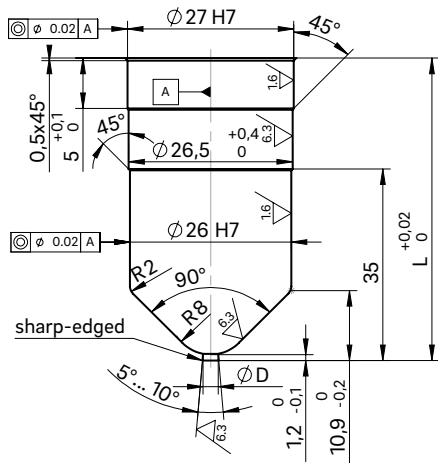


INSTALLATION

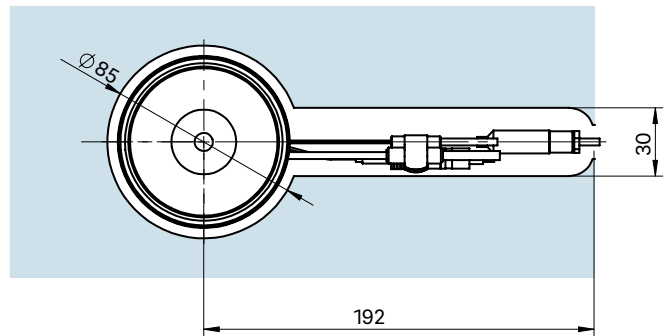
Open nozzle with tip
Nozzle type version C
Antechamber version A



Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



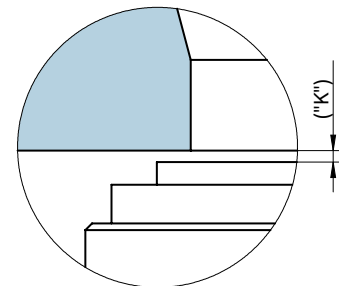
Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections



① Power and thermocouple plug connections in this area can be bent once; minimum radius: R8

Dimension "K" required for heat expansion is to be ensured by grinding the location ring!
Determine the difference between the height of the nozzle (with mount) and the height of the structure when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

Detail "Z"



| ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-----------------|------|------|------|------|------|------|
| K (mm) | 0.04 | 0.08 | 0.12 | 0.16 | 0.20 | 0.25 |



Hot runner nozzle type 10SHT/10DHT with AHJ10

Open single nozzle with conventional heating element and heated adapter AHJ10

TECHNICAL DATA

10SHT/10DHT

| | | | | | | | |
|---|--|----|-----|-----|-----|-----|-----|
| Melt channel Ød | 10.0 mm | | | | | | |
| Nozzle type | SHT – open with tip DHT – open with straight outlet | | | | | | |
| Operating voltage | 230 V _{AC} * | | | | | | |
| Nominal length of the nozzle (L) in mm | 60 | 80 | 100 | 120 | 150 | 200 | 250 |
| | ■ | ■ | ■ | ■ | ■ | □ | □ |

AHJ10

| | | |
|--------------------------|---------------------------------------|--|
| Melt channel Ød | 8.0 mm | |
| Operating voltage | 230 V _{AC} * | |
| Adapter | straight (G)/radius (R)/ angle (W) | |

Contact us for other nozzle lengths!

*Volts alternating current

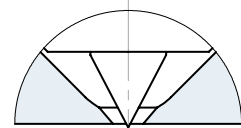
■ available □ on request

NOTE

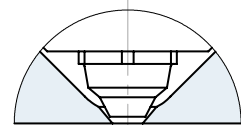
Power connector CMT and thermocouple connector CMLK are to be ordered separately.



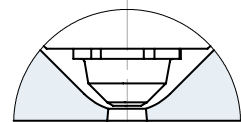
SHT – open nozzle with tip
version "Tip"
Antechamber version A

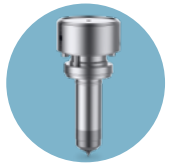


DHT – open nozzle with straight outlet
version C
Antechamber version A



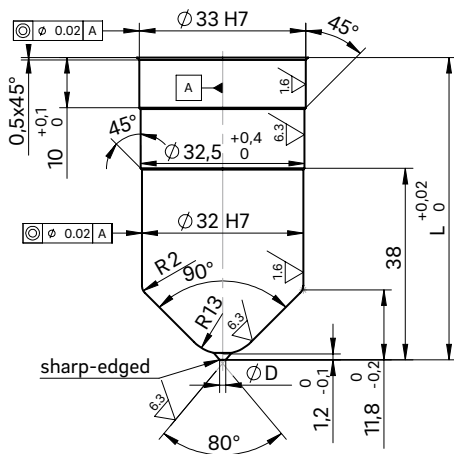
DHT – open nozzle with straight outlet
version A
Antechamber version C



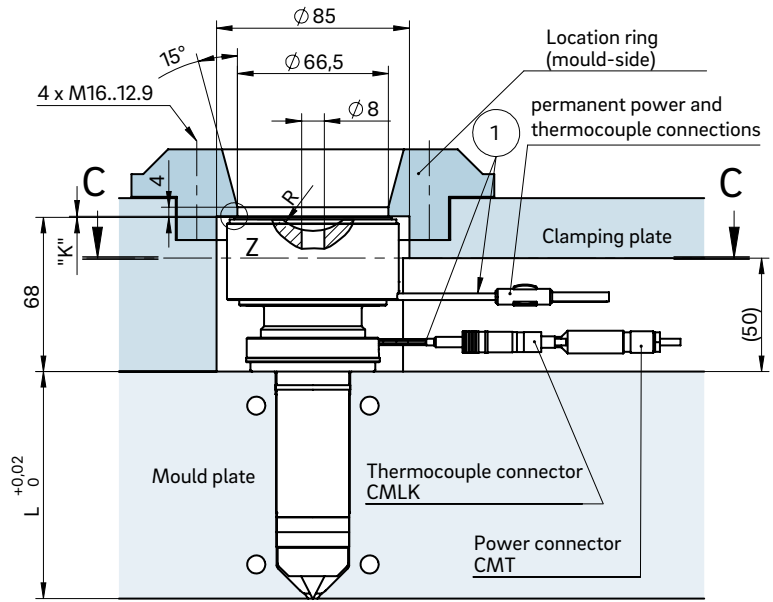
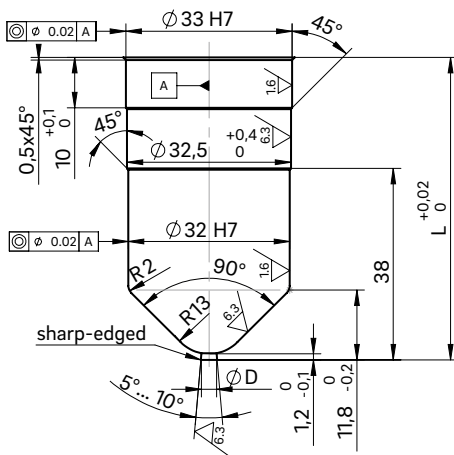


INSTALLATION

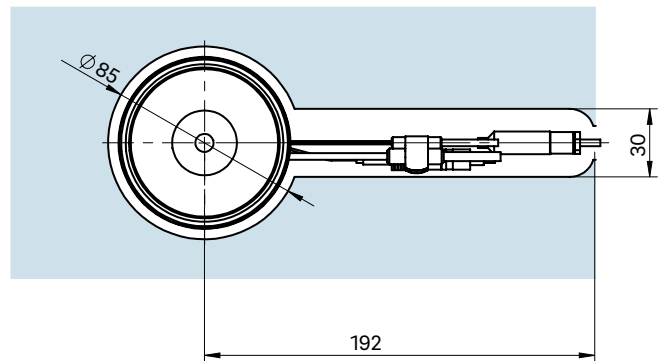
Open nozzle with tip
Nozzle type version C
Antechamber version A



Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



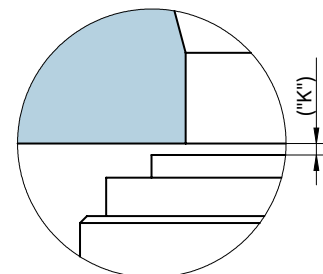
Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections



- ① Power and thermocouple plug connections in this area can be bent once; minimum radius: R8

Dimension "K" required for heat expansion is to be ensured by grinding the location ring! Determine the difference between the height of the nozzle (with mount) and the height of the structure when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

Detail "Z"



| | | | | | | |
|-----------------|------|------|------|------|------|------|
| ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
| K (mm) | 0.04 | 0.08 | 0.12 | 0.16 | 0.20 | 0.25 |



Hot runner nozzle type 12SHT/12DHT with AHJ12

Open single nozzle with conventional heating element and heated adapter AHJ12

TECHNICAL DATA

12SHT/12DHT

| | |
|--------------------------|--|
| Melt channel Ød | 12.0 mm |
| Nozzle type | SHT – open with tip DHT – open with straight outlet |
| Operating voltage | 230 V _{AC} * |

Nominal length of the nozzle (L) in mm

| | | | | | | |
|----|----|-----|-----|-----|-----|-----|
| 60 | 80 | 100 | 120 | 150 | 200 | 250 |
| ■ | ■ | ■ | □ | ■ | □ | □ |

AHJ12

| | |
|--------------------------|---------------------------------------|
| Melt channel Ød | 10.0 mm |
| Operating voltage | 230 V _{AC} * |
| Adapter | straight (G)/radius (R)/ angle (W) |

Contact us for other nozzle lengths!

*Volts alternating current

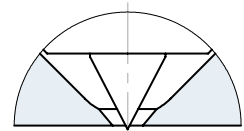
■ available □ on request

NOTE

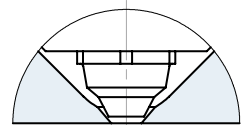
Power connector CMT and thermocouple connector CMLK are to be ordered separately.



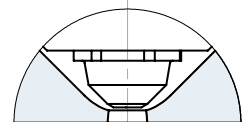
SHT – open nozzle with tip
version "Tip"
Antechamber version A



DHT – open nozzle with straight outlet
version C
Antechamber version A



DHT – open nozzle with straight outlet
version A
Antechamber version C

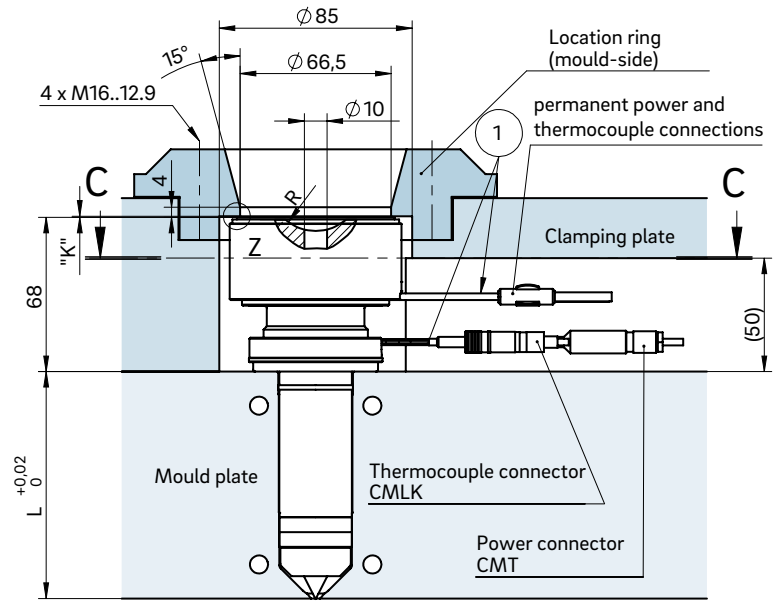
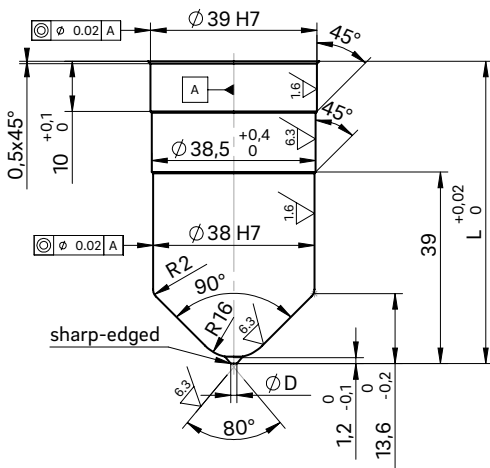


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21110



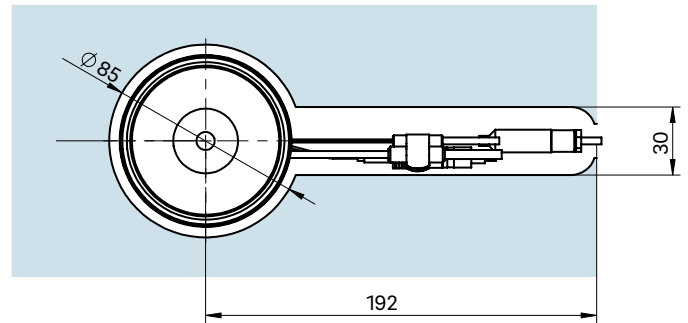
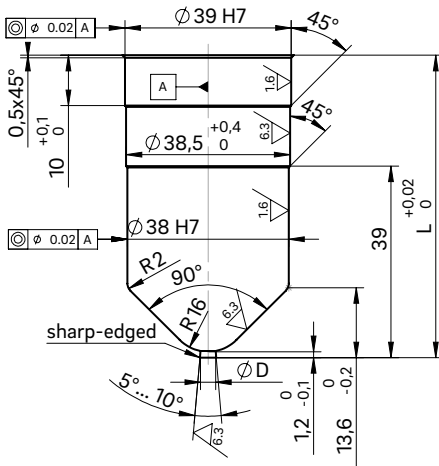
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections

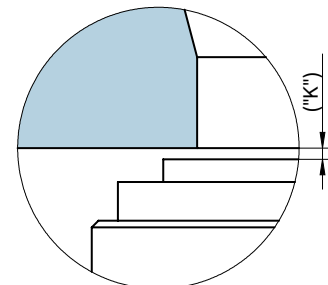
Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



① Power and thermocouple plug connections in this area can be bent once; minimum radius: R8

Dimension "K" required for heat expansion is to be ensured by grinding the location ring! Determine the difference between the height of the nozzle (with mount) and the height of the structure when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

Detail "Z"



| ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-----------------|------|------|------|------|------|------|
| K (mm) | 0.04 | 0.08 | 0.12 | 0.16 | 0.20 | 0.25 |



2.2 System hot runner nozzles

SYSTEM HOT RUNNER NOZZLES – OPEN SYSTEM

Page



4SHF/4DHF, 5SHF/5DHF and 6SHF/6DHF
Open system nozzle, screwed to the manifold,
BlueFlow® thick-film heating element
3.8 mm/4.8 mm/6.0 mm melt channel diameter

30, 40, 50



5SHT/5DHT and 6SHT/6DHT
Open system nozzle, screwed to the manifold,
with conventional heating element
4.8 mm/6.0 mm melt channel diameter

60, 70



8SHF/8DHF
Open system nozzle, screwed to the manifold,
BlueFlow® thick-film heating element
7.5 mm melt channel diameter

75



8SHT/8DHT, 10SHT/10DHT and 12SHT/12DHT
Open system nozzle, screwed to the manifold,
with conventional heating element
7.5 mm/10.0 mm/12.0 mm melt channel diameter

80, 90, 100



4SMT/4DMT, 5SMT/5DMT and 6SMT/6DMT
Open system nozzle, not screwed to the manifold,
with conventional heating element
3.8 mm/4.8 mm/6.0 mm melt channel diameter

110, 120, 130



3SMF-K/3DMF-K, 5SMF-K/5DMF-K and 8SMF-K/8DMF-K
Open system nozzle, not screwed to the manifold,
BlueFlow® thick-film heating element
2.8 mm/4.8 mm/7.5 mm melt channel diameter

140, 150, 160



5SMT-K/5DMT-K
Open system nozzle, not screwed to the manifold,
with conventional heating element
4.8 mm melt channel diameter

170



3STF/3DTF
Open system nozzle, screwed from the parting line,
BlueFlow® thick-film heating element
2.8 mm melt channel diameter

180



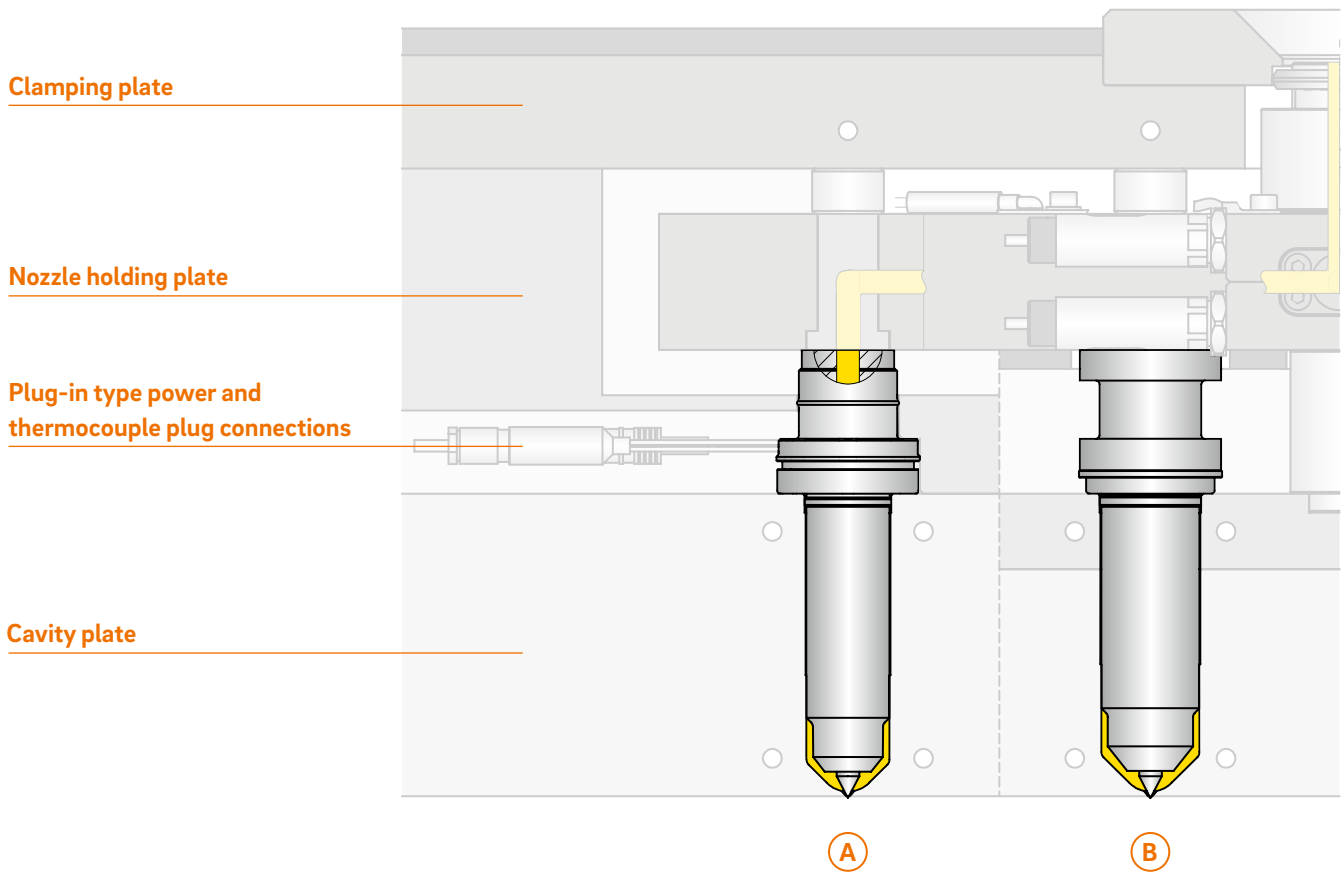
4STT/4DTT, 5STT/5DTT and 6STT/6DTT
Open system nozzle, screwed from the parting line,
with conventional heating element
3.8 mm/4.8 mm/6.0 mm melt channel diameter

190, 200, 210



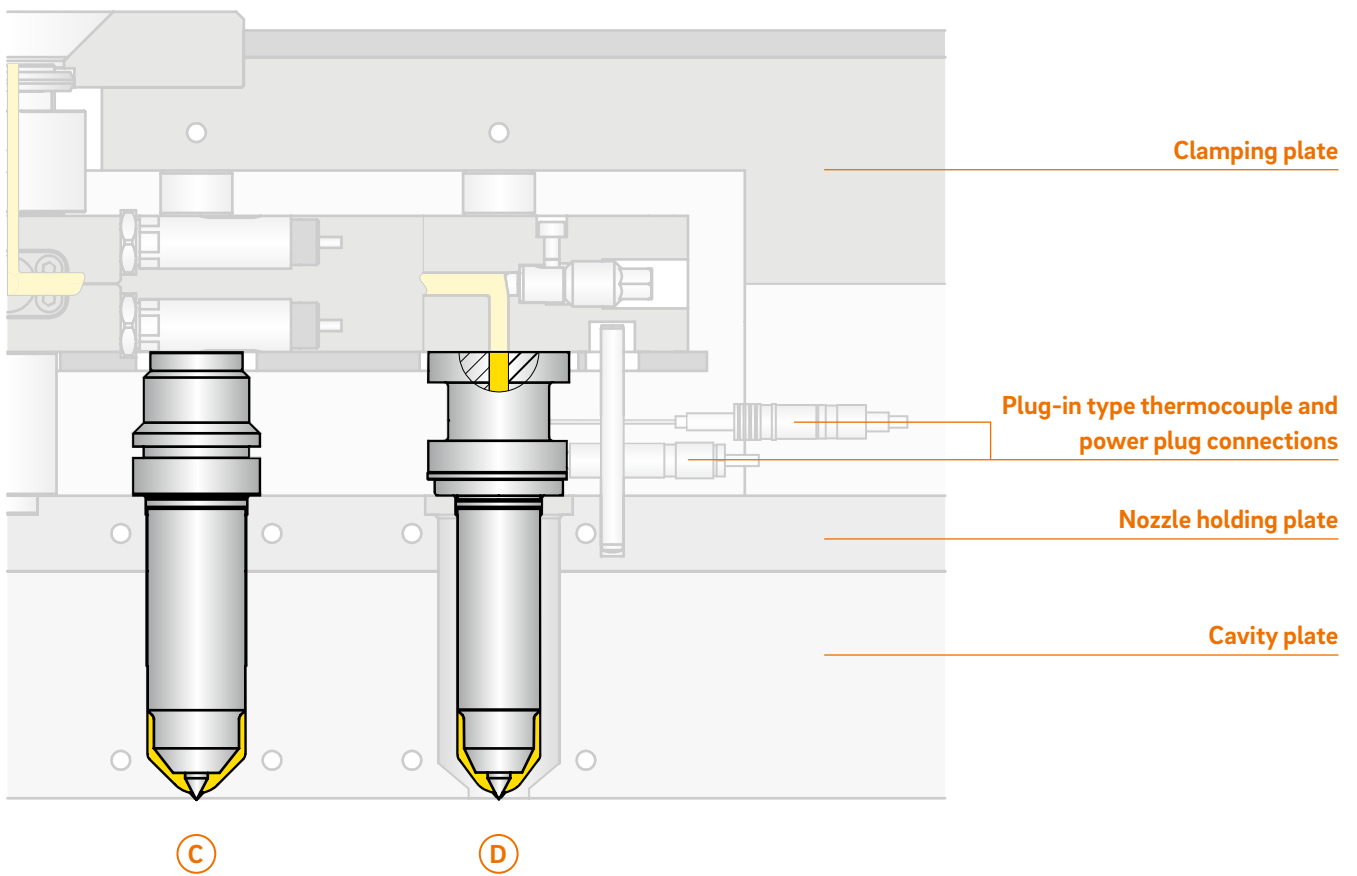
Overview of overall design

System hot runner nozzles



- A**
Nozzle type STT
- With shaft
- Screwed from the parting line

- B**
Nozzle type SHT
- With shaft
- Screwed to the manifold



- C**
- Nozzle type SMT
 - With shaft
 - For minimal spacing
 - Not screwed to the manifold

- D**
- BlueFlow® nozzle type SHF
 - With shaft
 - Thick-film heating element
 - Screwed to the manifold



Hot runner nozzle type 4SHF/4DHF

Open system nozzle with thick-film heating element (BlueFlow®),
screwed to the manifold

TECHNICAL DATA

4SHF/4DHF

| | |
|-------------------|--|
| Melt channel Ød | 3.8 mm |
| Nozzle type | SHF – open with tip DHF – open with straight outlet |
| Operating voltage | 230 V _{AC} * |

Nominal length of the nozzle (L) in mm

| | | | | | | |
|----|----|----|-----|-----|-----|-----|
| 50 | 60 | 80 | 100 | 120 | 150 | 180 |
| ■ | ■ | ■ | ■ | ■ | □ | □ |

Contact us for other nozzle lengths!

*Volts alternating current

■ available □ on request

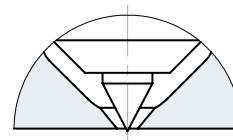
NOTE

Power connector CHF and thermocouple connector CMLK are to be ordered separately.

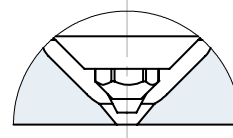
BlueFlow® hot runner nozzle type SHF/DHF is not intended for sale or use in the USA or Canada!



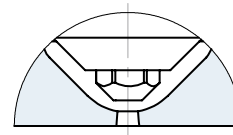
SHF – open nozzle with tip
version "Tip"
Antechamber version A



DHF – open nozzle with straight outlet
version C
Antechamber version A



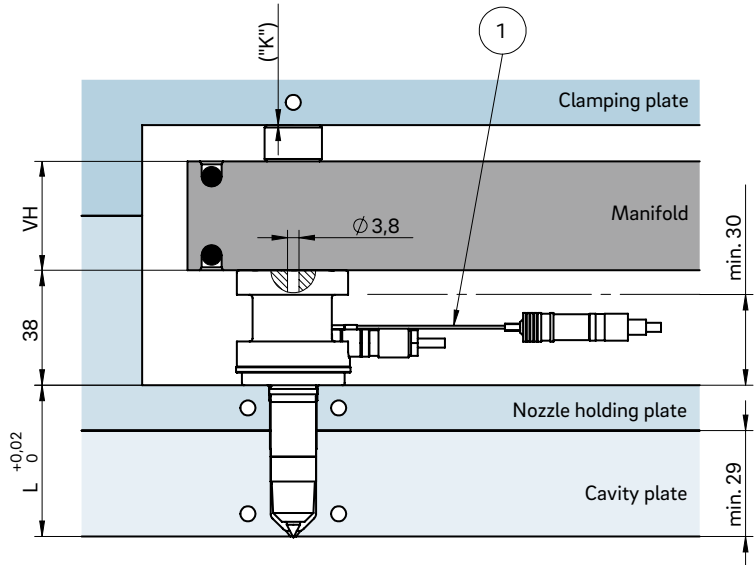
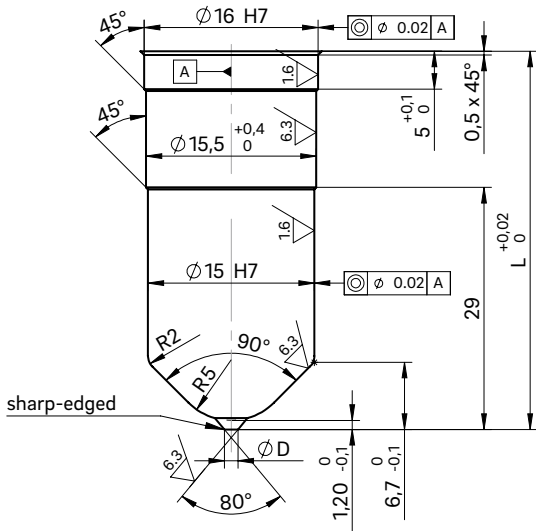
DHF – open nozzle with straight outlet
version A
Antechamber version C





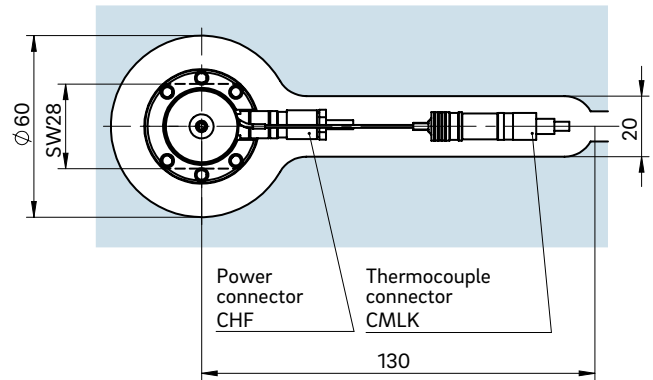
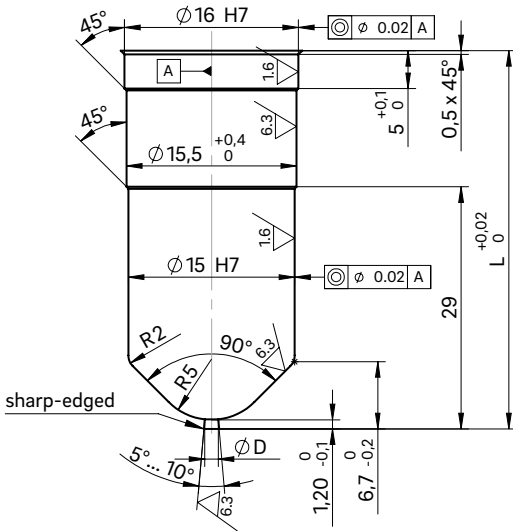
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



Example cutout for nozzle head, power and thermocouple plug connections

Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



① Thermocouple plug connection in this area can only be bent once; minimum radius: R8
SW = flat area on nozzle head

Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|---------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |



Hot runner nozzle type 5SHF/5DHF

Open system nozzle with thick-film heating element (BlueFlow®),
screwed to the manifold

TECHNICAL DATA

5SHF/5DHF

| | |
|-------------------|--|
| Melt channel Ød | 4.8 mm |
| Nozzle type | SHF – open with tip DHF – open with straight outlet |
| Operating voltage | 230 V _{AC} * |

Nominal length of the nozzle (L) in mm

| | | | | | | |
|----|----|----|-----|-----|-----|-----|
| 50 | 60 | 80 | 100 | 120 | 150 | 180 |
| ■ | ■ | ■ | ■ | ■ | □ | □ |

Contact us for other nozzle lengths!

*Volts alternating current

■ available □ on request

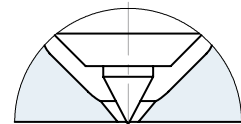
NOTE

Power connector CHF and thermocouple connector CMLK are to be ordered separately.

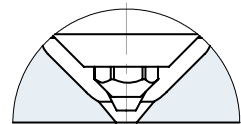
BlueFlow® hot runner nozzle type SHF/DHF is not intended for sale or use in the USA or Canada!



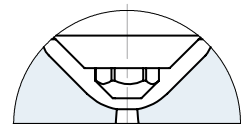
SHF – open nozzle with tip
"Tip" version
Antechamber version A

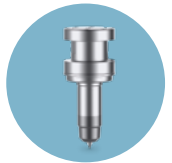


DHF – open nozzle with straight outlet
version C
Antechamber version A



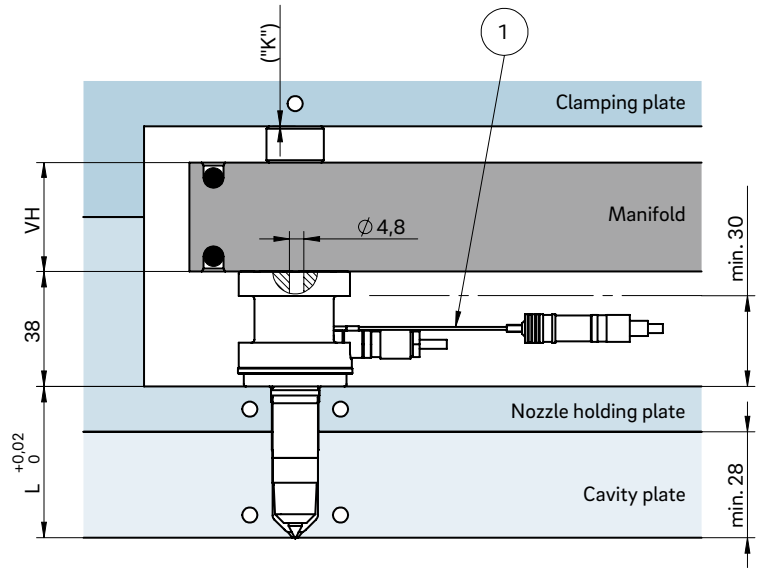
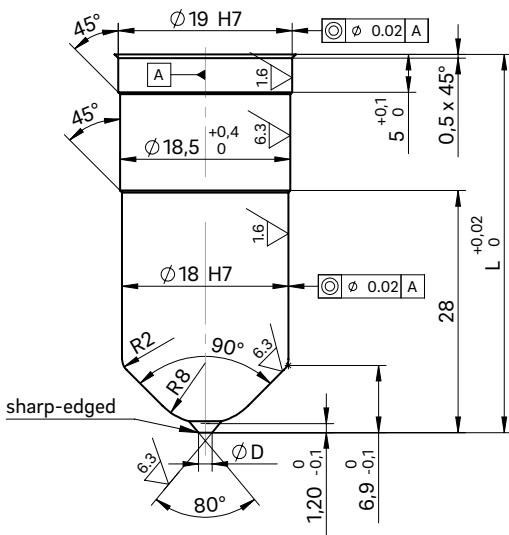
DHF – open nozzle with straight outlet
version A
Antechamber version C





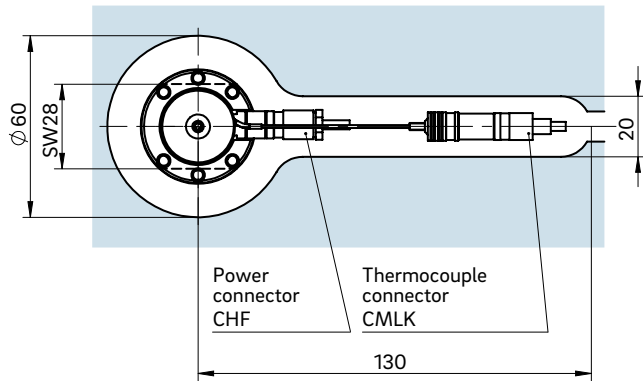
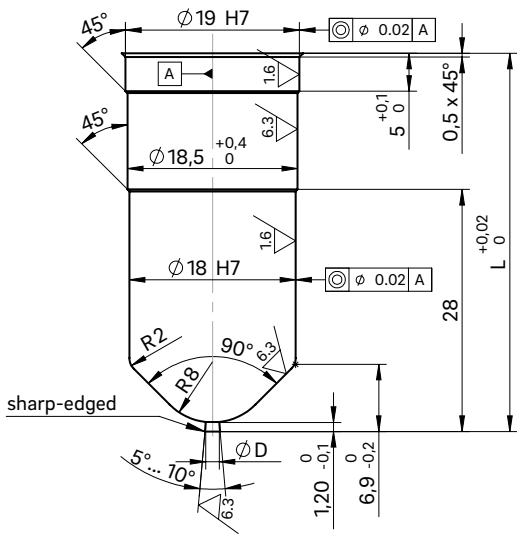
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



Example cutout for nozzle head, power and thermocouple plug connections

Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



① Thermocouple plug connection in this area can only be bent once; minimum radius: R8
SW = flat area on nozzle head

Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 ± 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|---------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |



Hot runner nozzle type 6SHF/6DHF

Open system nozzle with thick-film heating element (BlueFlow®),
screwed to the manifold

TECHNICAL DATA

6SHF/6DHF

| | |
|-------------------|--|
| Melt channel Ød | 6.0 mm |
| Nozzle type | SHF – open with tip DHF – open with straight outlet |
| Operating voltage | 230 V _{AC} * |

Nominal length of the nozzle (L) in mm

| | | | | | |
|----|----|----|-----|-----|-----|
| 50 | 60 | 80 | 100 | 120 | 150 |
| ■ | ■ | ■ | ■ | ■ | □ |

Contact us for other nozzle lengths!

*Volts alternating current

■ available □ on request

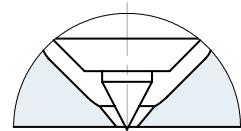
NOTE

Power connector CHF and thermocouple connector CMLK are to be ordered separately.

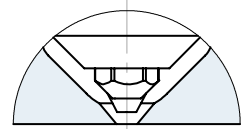
BlueFlow® hot runner nozzle type SHF/DHF is not intended for sale or use in the USA or Canada!



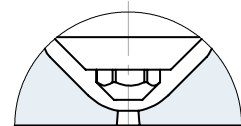
SHF – open nozzle with tip
version "Tip"
Antechamber version A

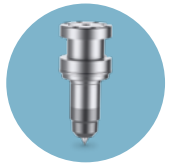


DHF – open nozzle with straight outlet
version C
Antechamber version A



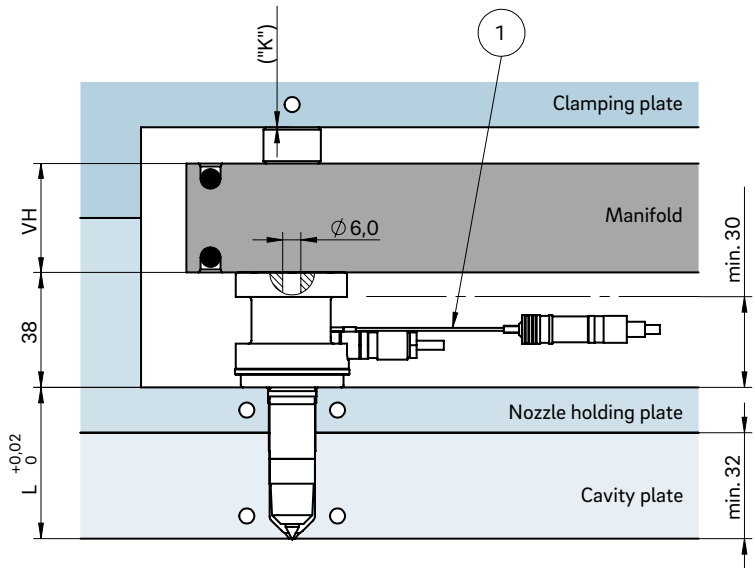
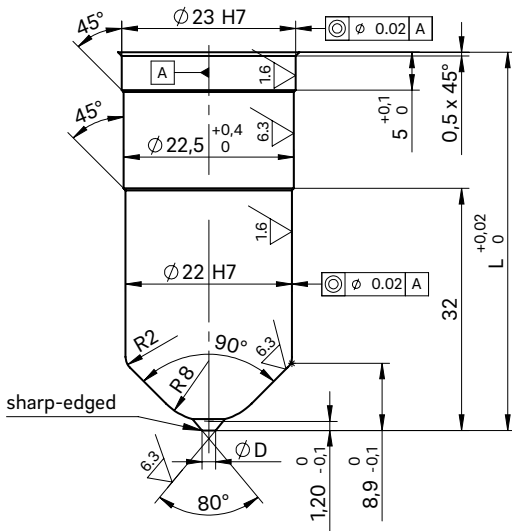
DHF – open nozzle with straight outlet
version A
Antechamber version C





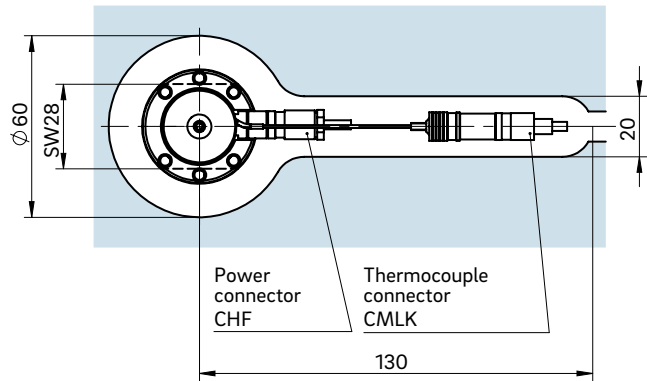
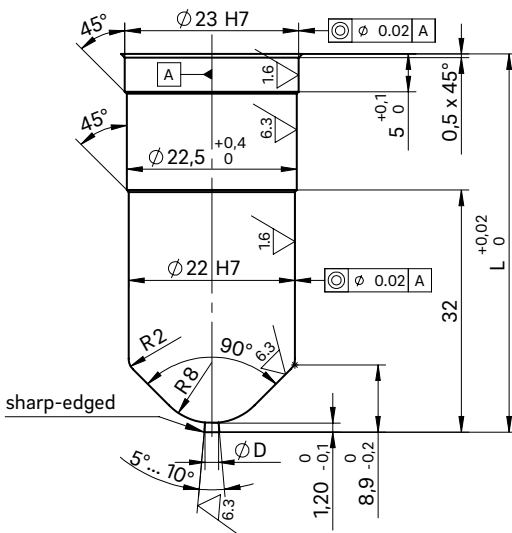
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



Example cutout for nozzle head, power and thermocouple plug connections

Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



① Thermocouple plug connection in this area can only be bent once; minimum radius: R8
SW = flat area on nozzle head

Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|---------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |



Hot runner nozzle type 5SHT/5DHT

Open system nozzle with conventional heating element, screwed to the manifold

TECHNICAL DATA

5SHT/5DHT

| | | | | |
|---|--|----|----|-----|
| Melt channel Ød | 4.8 mm | | | |
| Nozzle type | SHT – open with tip DHT – open with straight outlet | | | |
| Operating voltage | 230 V _{AC} * | | | |
| Nominal length of the nozzle (L) in mm | 50 | 60 | 80 | 100 |
| | ■ | ■ | ■ | ■ |

Contact us for other nozzle lengths!

*Volts alternating current

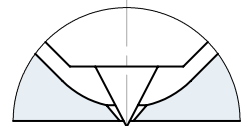
■ available

NOTE

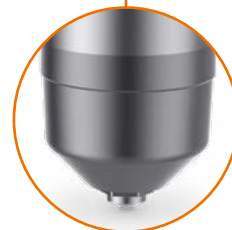
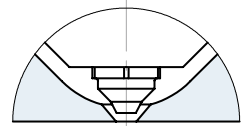
Power connector CMT and thermocouple connector CMLK are to be ordered separately.



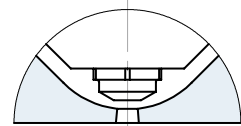
SHT – open nozzle with tip
version "Tip"
Antechamber version A



DHT – open nozzle with straight outlet
version C
Antechamber version A



DHT – open nozzle with straight outlet
version A
Antechamber version C

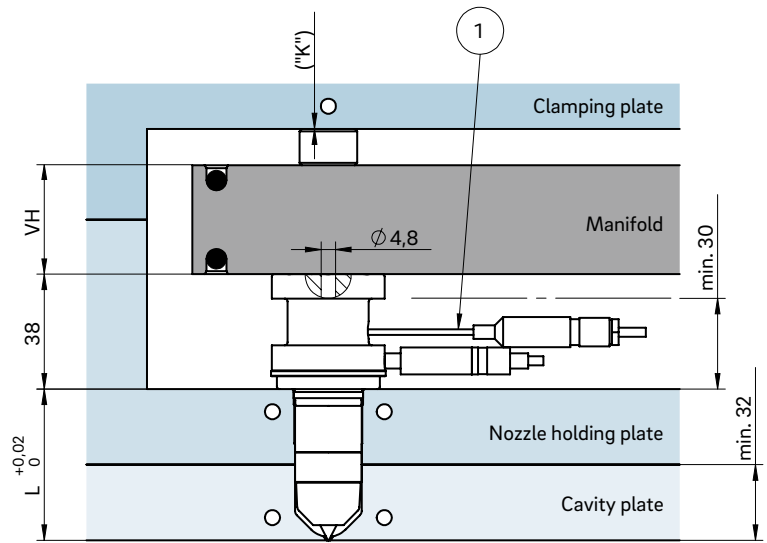
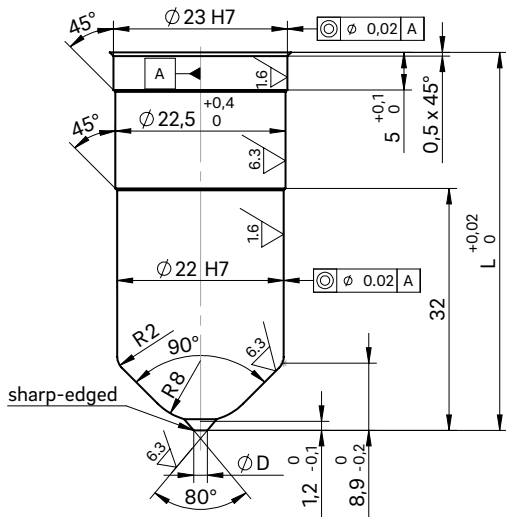


WEBCODE
22040



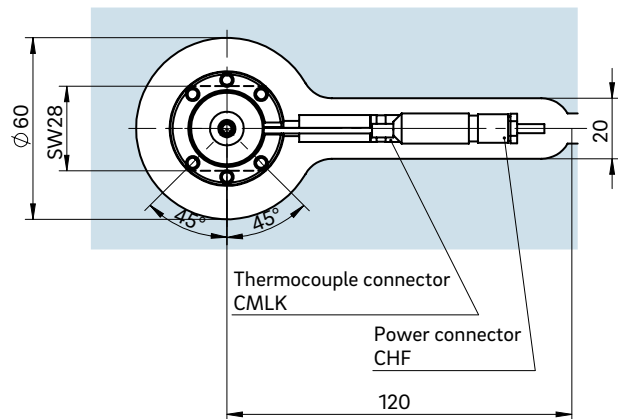
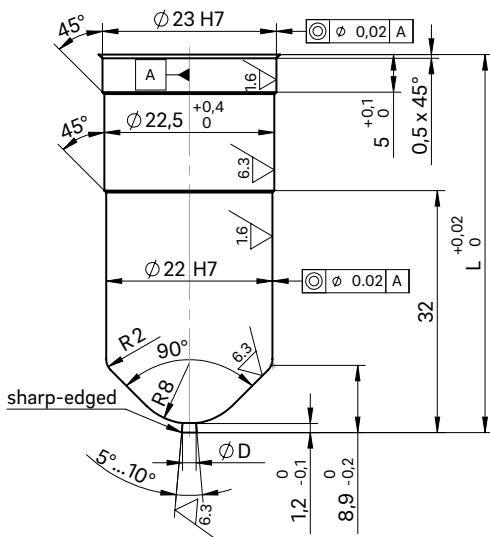
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



Example cutout for nozzle head, power and thermocouple plug connections

Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



① Power plug connection in this area can only be bent once; minimum radius: R8
SW = flat area on nozzle head

Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|---------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |



Hot runner nozzle type 6SHT/6DHT

Open system nozzle with conventional heating element, screwed to the manifold

TECHNICAL DATA

6SHT/6DHT

Melt channel Ød 6.0 mm

Nozzle type SHT – open with tip
DHT – open with straight outlet

Operating voltage 230 V_{AC} *

Nominal length of the nozzle (L) in mm

| | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|
| 50 | 60 | 80 | 100 | 120 | 150 | 200 | 250 |
| ■ | ■ | ■ | ■ | ■ | □ | □ | □ |

Contact us for other nozzle lengths!

*Volts alternating current

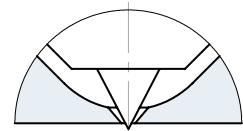
■ available □ on request

NOTE

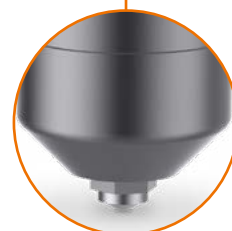
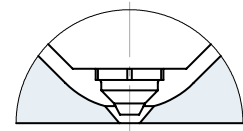
Power connector CMT and thermocouple connector CMLK are to be ordered separately.



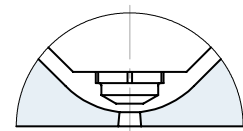
SHT – open nozzle with tip
version "Tip"
Antechamber version A



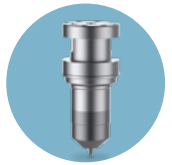
DHT – open nozzle with straight outlet
version C
Antechamber version A



DHT – open nozzle with straight outlet
version A
Antechamber version C

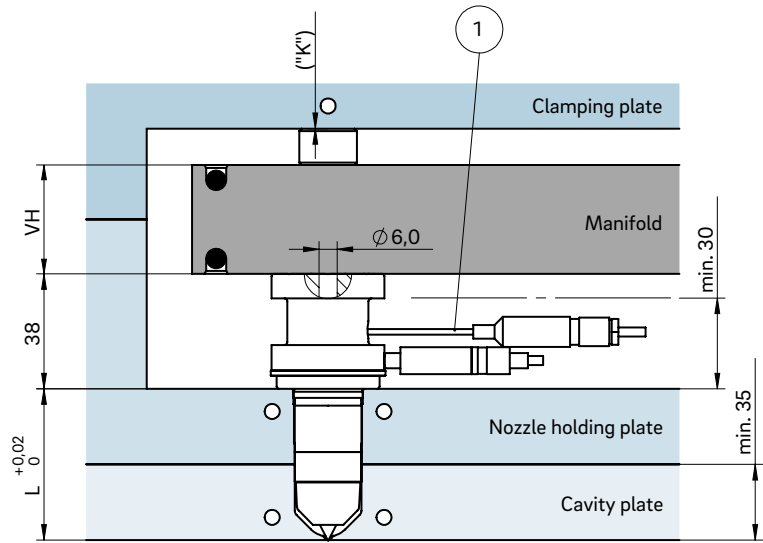
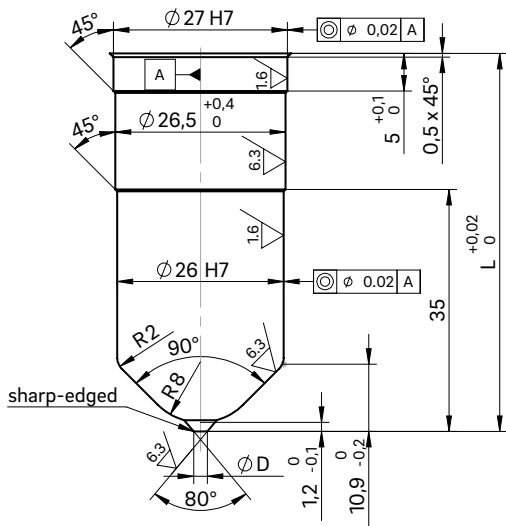


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22050



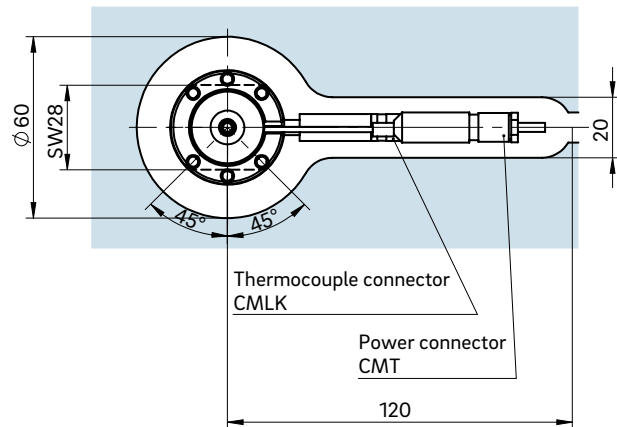
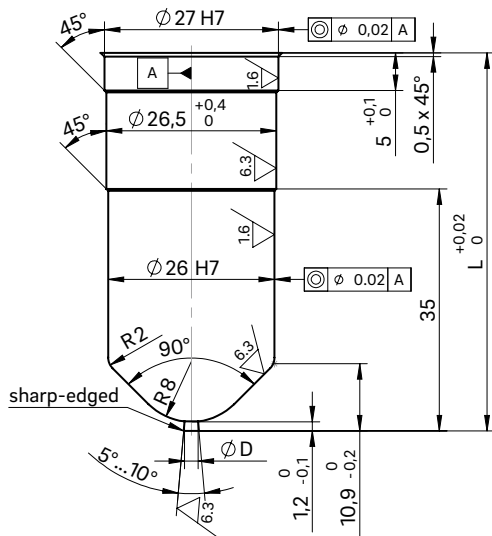
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



Example cutout for nozzle head, power and thermocouple plug connections

Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



① Power plug connection in this area can only be bent once; minimum radius: R8
SW = flat area on nozzle head

Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|-----------------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |



Hot runner nozzle type 8SHF/8DHF

Open system nozzle with thick-film heating element (BlueFlow®),
screwed to the manifold

TECHNICAL DATA

8SHF/8DHF

Melt channel Ød 7.5 mm

Nozzle type SHF – open with tip
DHF – open with straight outlet

Operating voltage 230 V_{AC} *

Nominal length of the nozzle (L) in mm

| | | | | | |
|----|----|----|-----|-----|-----|
| 50 | 60 | 80 | 100 | 120 | 150 |
| ■ | ■ | ■ | ■ | ■ | ■ |

Contact us for other nozzle lengths!

*Volts alternating current

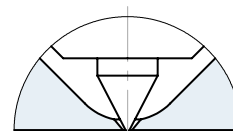
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NOTE

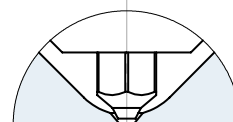
Power connector CHF and thermocouple connector CMLK are to be ordered separately.



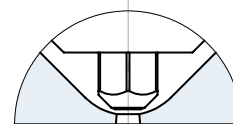
SHF – open nozzle with tip
version "Tip"
Antechamber version A



DHF – open nozzle with straight outlet
version C
Antechamber version A



DHF – open nozzle with straight outlet
version A
Antechamber version C

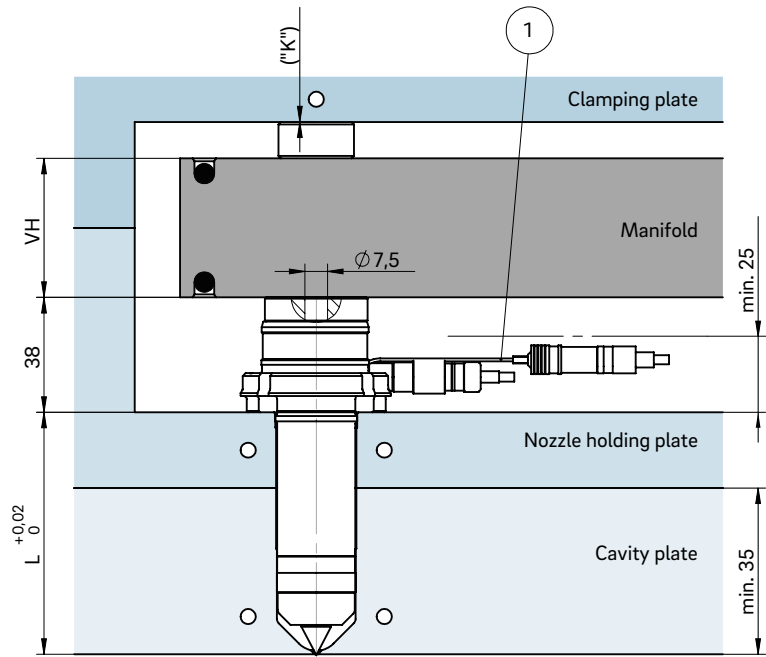
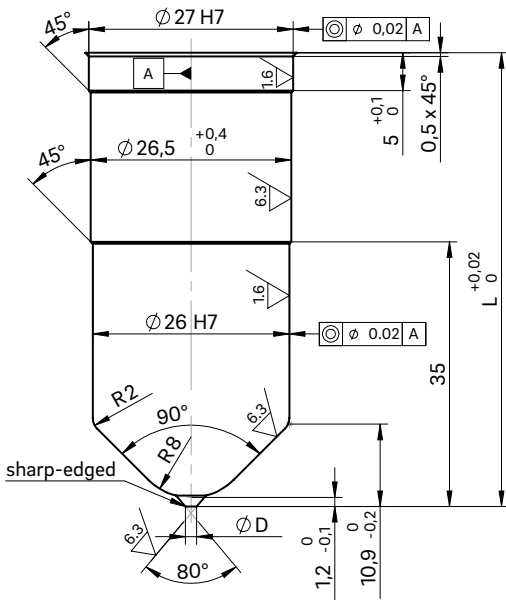


WEBCODE
22055



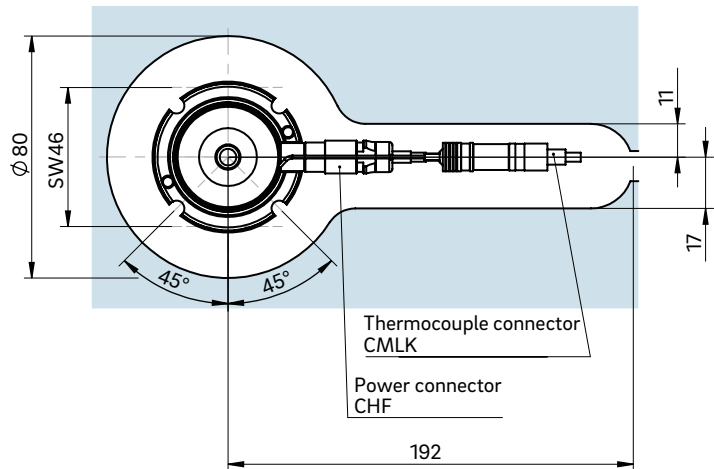
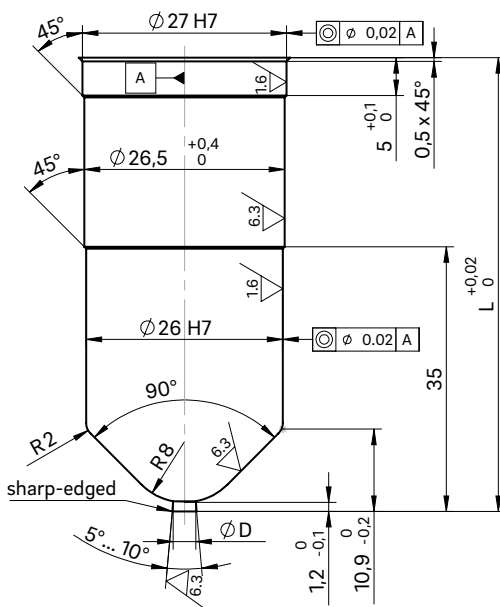
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



Example cutout for nozzle head, power and thermocouple plug connections

Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



- ① Thermocouple plug connections in this area can only be bent once; minimum radius: R8
SW = flat area on nozzle head

Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|---------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |



Hot runner nozzle type 8SHT/8DHT

Open system nozzle with conventional heating element, screwed to the manifold

TECHNICAL DATA

8SHT/8DHT

| | | | | | | | | |
|---|--|----|----|-----|-----|-----|-----|-----|
| Melt channel Ød | 7.5 mm | | | | | | | |
| Nozzle type | SHT – open with tip DHT – open with straight outlet | | | | | | | |
| Operating voltage | 230 V _{AC} * | | | | | | | |
| Nominal length of the nozzle (L) in mm | 50 | 60 | 80 | 100 | 120 | 150 | 200 | 250 |
| | ■ | ■ | ■ | ■ | ■ | ■ | □ | □ |

Contact us for other nozzle lengths!

*Volts alternating current

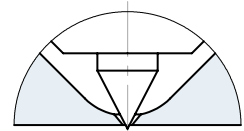
■ available □ on request

NOTE

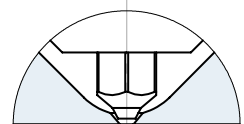
Power connector CMT and thermocouple connector CMLK are to be ordered separately.



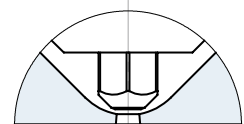
SHT – open nozzle with tip version "Tip" Antechamber version A



DHT – open nozzle with straight outlet version C Antechamber version A



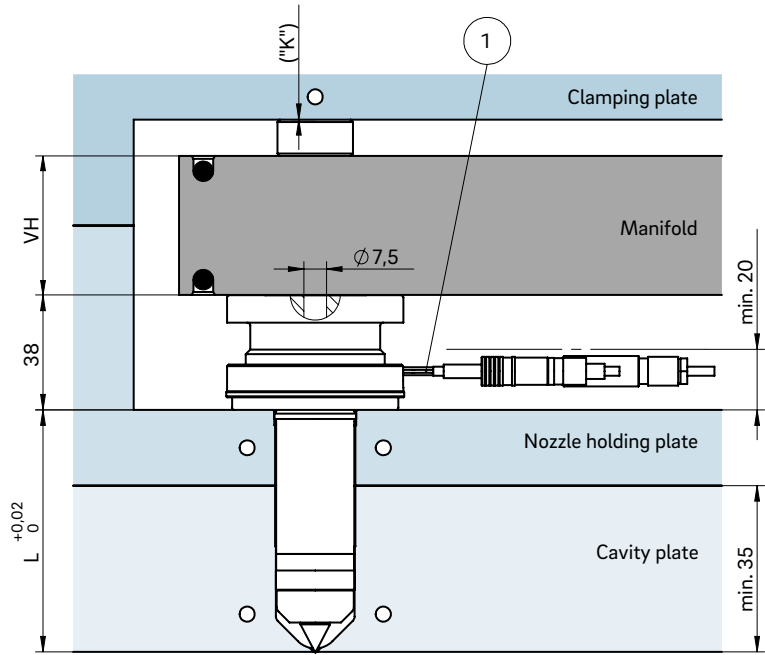
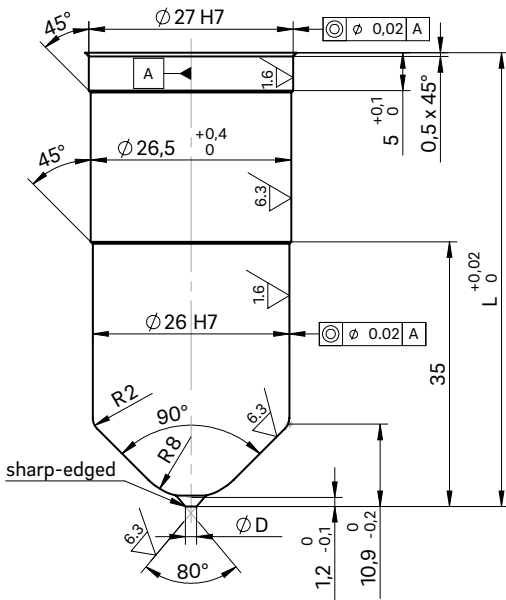
DHT – open nozzle with straight outlet version A Antechamber version C





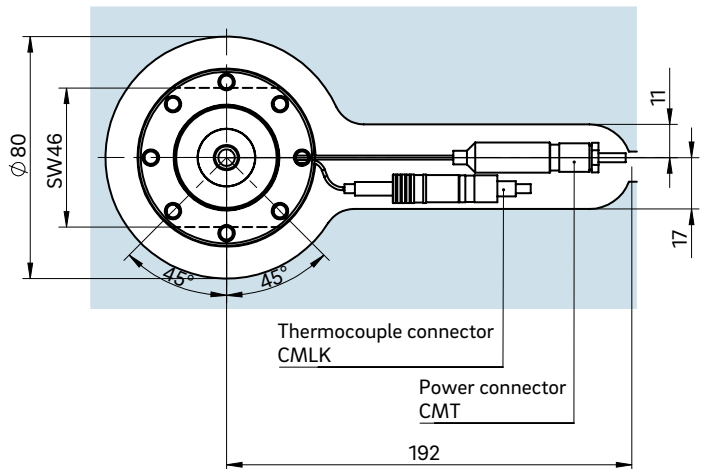
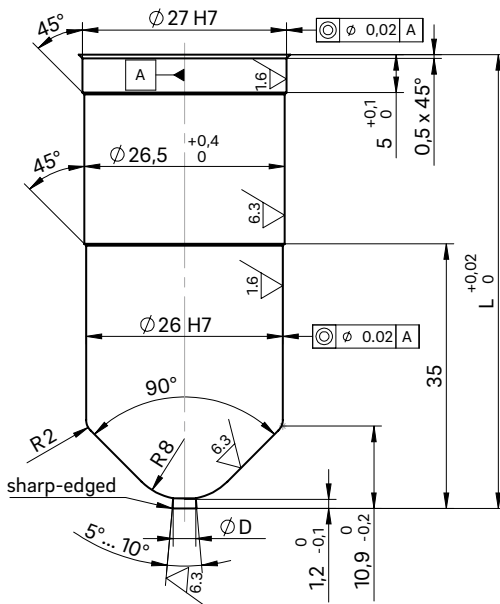
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



Example cutout for nozzle head, power and thermocouple plug connections

Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



- ① Power and thermocouple plug connections in this area can only be bent once; minimum radius: R8
SW = flat area on nozzle head

Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|---------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |



Hot runner nozzle type 10SHT/10DHT

Open system nozzle with conventional heating element, screwed to the manifold

TECHNICAL DATA

10SHT/10DHT

| | |
|--------------------------|--|
| Melt channel Ød | 10.0 mm |
| Nozzle type | SHT – open with tip DHT – open with straight outlet |
| Operating voltage | 230 V _{AC} * |

Nominal length of the nozzle (L) in mm

| | | | | | | |
|----|----|-----|-----|-----|-----|-----|
| 60 | 80 | 100 | 120 | 150 | 200 | 250 |
| ■ | ■ | ■ | ■ | ■ | □ | □ |

Contact us for other nozzle lengths!

*Volts alternating current

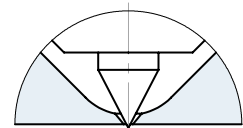
■ available □ on request

NOTE

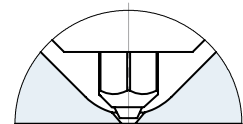
Power connector CMT and thermocouple connector CMLK are to be ordered separately.



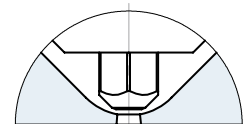
SHT – open nozzle with tip version "Tip" Antechamber version A



DHT – open nozzle with straight outlet version C Antechamber version A



DHT – open nozzle with straight outlet version A Antechamber version C

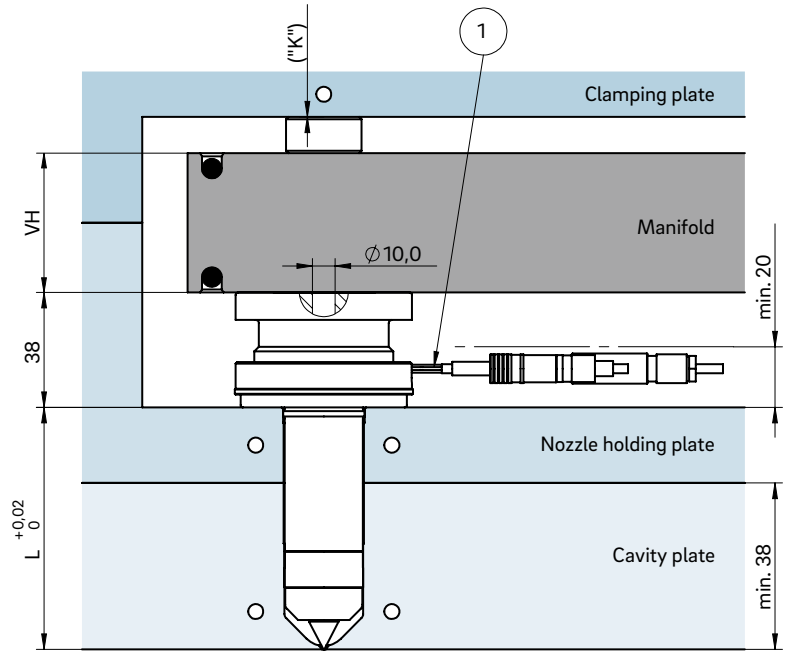
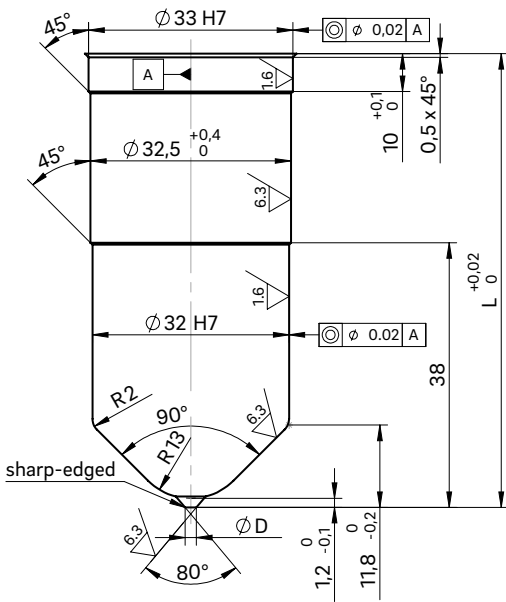


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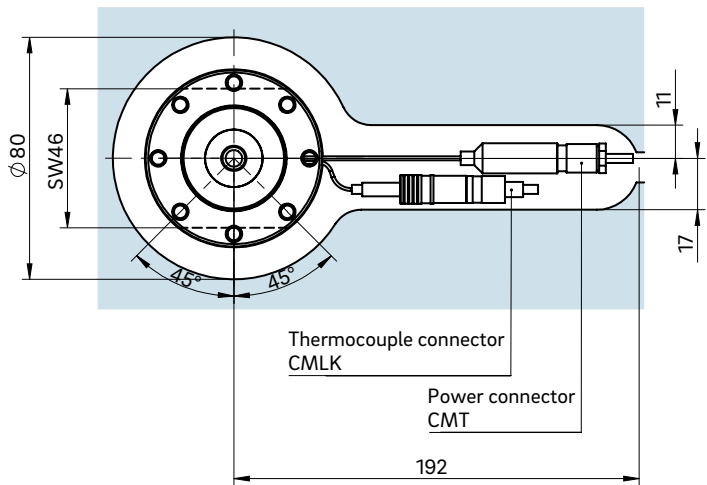
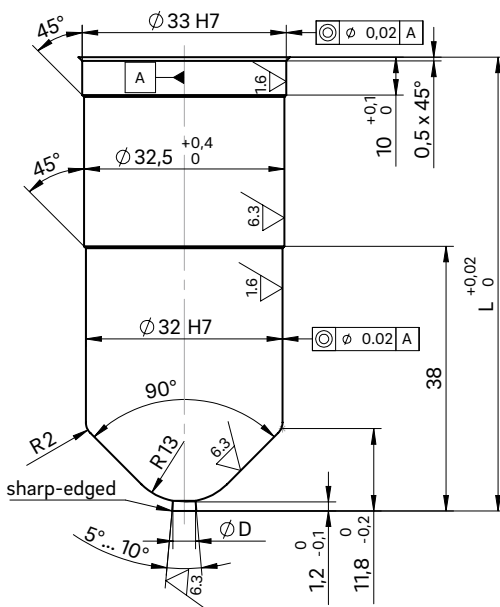
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



Example cutout for nozzle head, power and thermocouple plug connections

Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



- ① Power and thermocouple plug connections in this area can only be bent once; minimum radius: R8
SW = flat area on nozzle head

Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|---------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |



Hot runner nozzle type 12SHT/12DHT

Open system nozzle with conventional heating element, screwed to the manifold

TECHNICAL DATA

12SHT/12DHT

| | |
|--------------------------|--|
| Melt channel Ød | 12.0 mm |
| Nozzle type | SHT – open with tip DHT – open with straight outlet |
| Operating voltage | 230 V _{AC} * |

Nominal length of the nozzle (L) in mm

| | | | | | | |
|----|----|-----|-----|-----|-----|-----|
| 60 | 80 | 100 | 120 | 150 | 200 | 250 |
| ■ | ■ | ■ | □ | ■ | □ | □ |

Contact us for other nozzle lengths!

*Volts alternating current

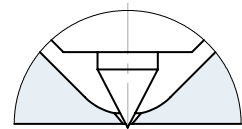
■ available □ on request

NOTE

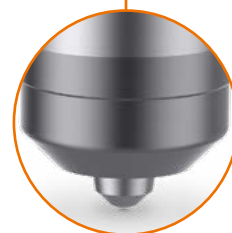
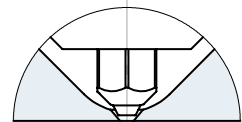
Power connector CMT and thermocouple connector CMLK are to be ordered separately.



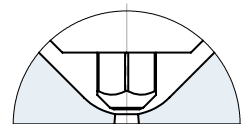
SHT – open nozzle with tip version "Tip" Antechamber version A



DHT – open nozzle with straight outlet version C Antechamber version A



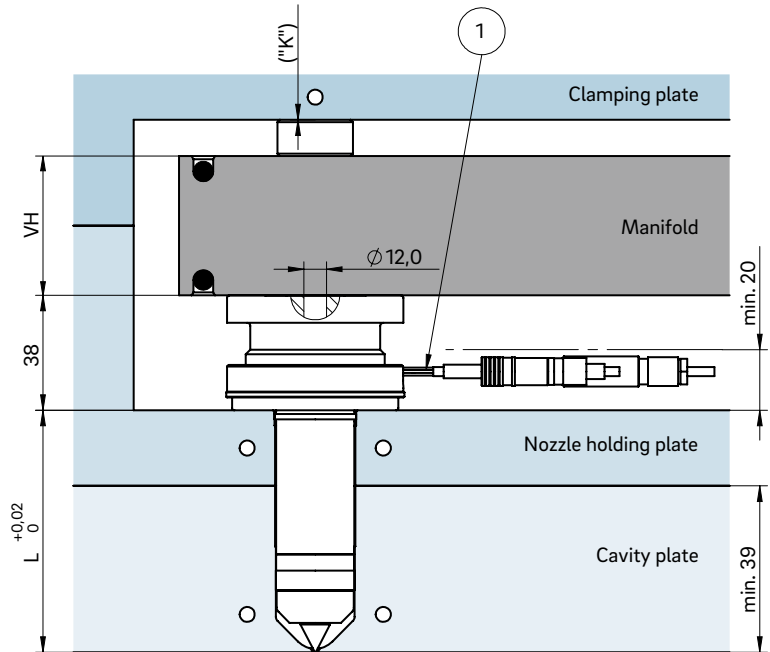
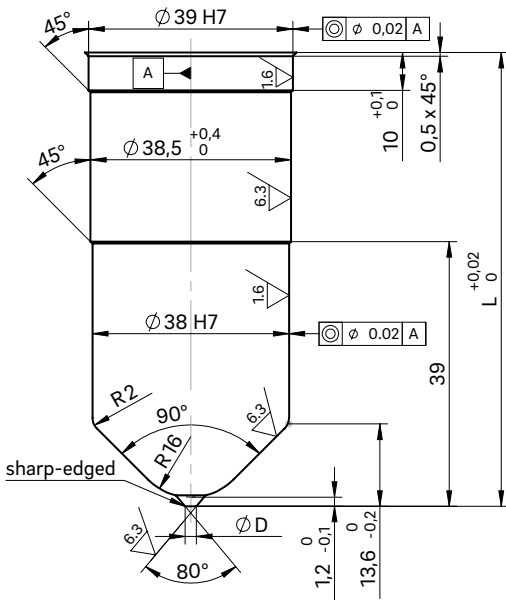
DHT – open nozzle with straight outlet version A Antechamber version C





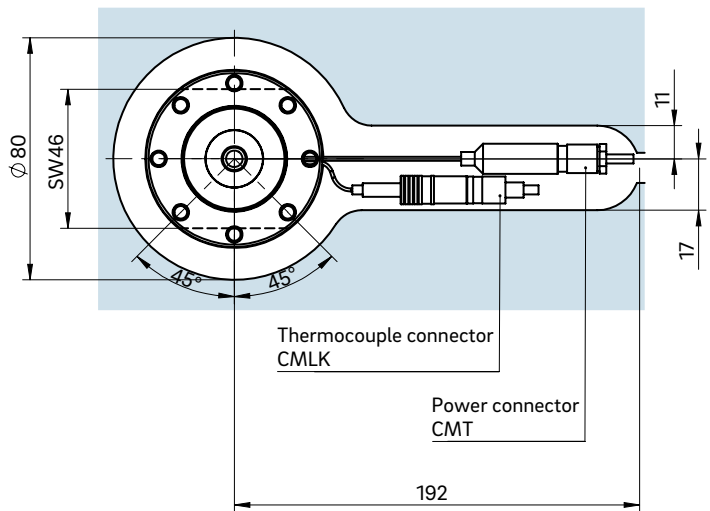
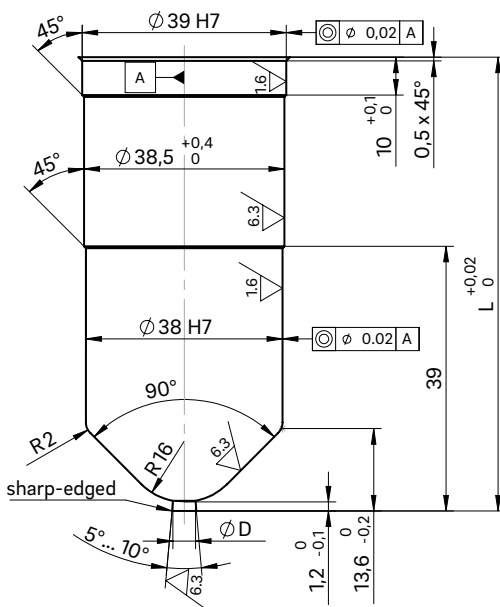
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



Example cutout for nozzle head, power and thermocouple plug connections

Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



① Power and thermocouple plug connections in this area can only be bent once; minimum radius: R8
SW = flat area on nozzle head

Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|---------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |



Hot runner nozzle type 4SMT/4DMT

Open system nozzle with conventional heating element, for minimal spacing, not screwed to the manifold

TECHNICAL DATA

4SMT/4DMT

| | |
|-------------------|--|
| Melt channel Ød | 3.8 mm |
| Nozzle type | SMT – open with tip DMT – open with straight outlet |
| Operating voltage | 230 V _{AC} * |

Nominal length of the nozzle (L) in mm

| | | | |
|----|----|----|-----|
| 50 | 60 | 80 | 100 |
| ■ | ■ | ■ | ■ |

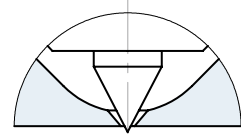
Contact us for other nozzle lengths!

*Volts alternating current

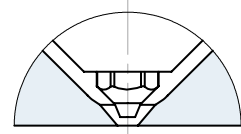
■ available



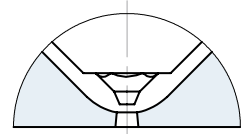
SMT – open nozzle with tip
version "Tip"
Antechamber version A



DMT – open nozzle with straight outlet
version C
Antechamber version A



DMT – open nozzle with straight outlet
version A
Antechamber version C

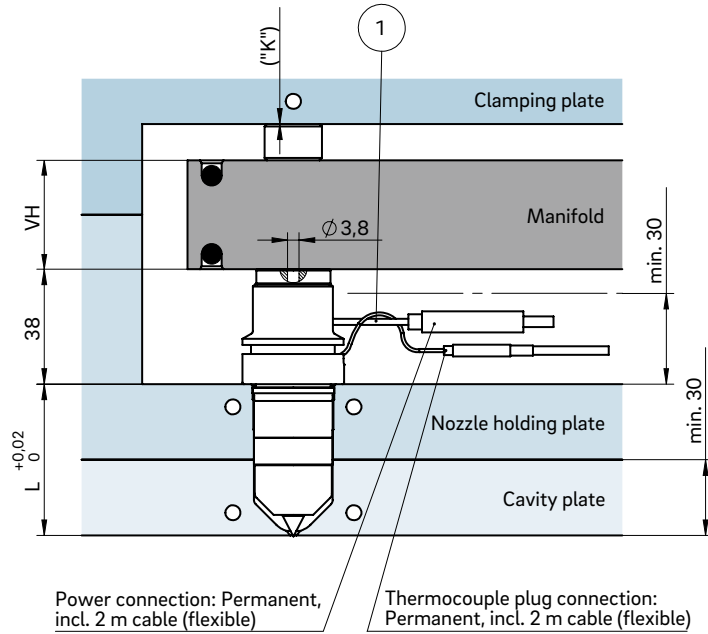
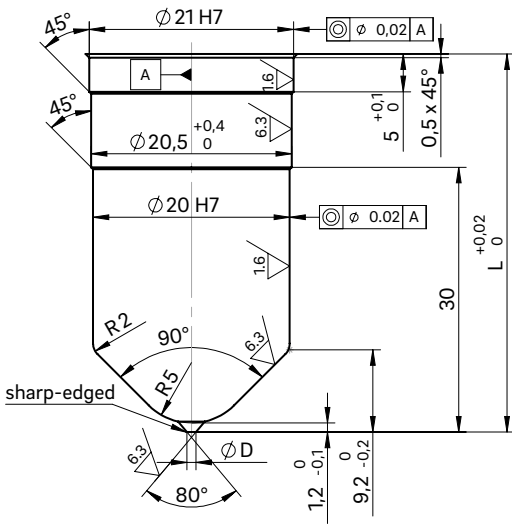


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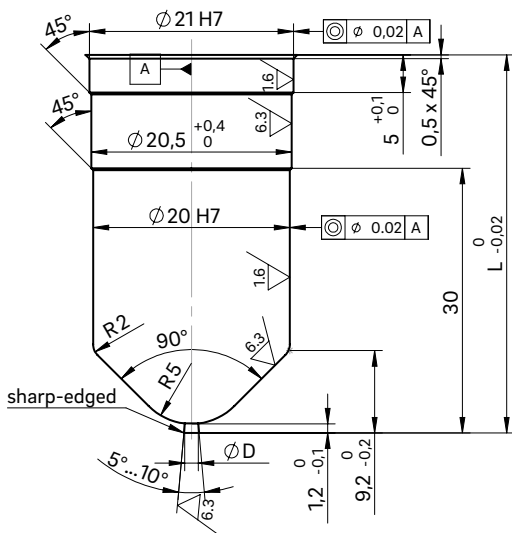


INSTALLATION

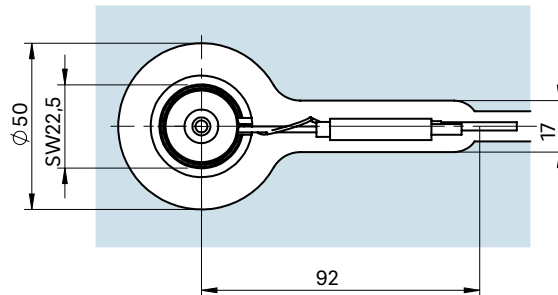
Open nozzle with tip
Nozzle type version C
Antechamber version A



Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



Example cutout for nozzle head, power and thermocouple plug connections



① Power and thermocouple plug connections in this area can only be bent once; minimum radius: R8
SW = flat area on nozzle head

Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 ± 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|---------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |



Hot runner nozzle type 5SMT/5DMT

Open system nozzle with conventional heating element, for minimal spacing, not screwed to the manifold

TECHNICAL DATA

5SMT/5DMT

| | |
|--------------------------|--|
| Melt channel Ød | 4.8 mm |
| Nozzle type | SMT – open with tip DMT – open with straight outlet |
| Operating voltage | 230 V _{AC} * |

Nominal length of the nozzle (L) in mm

| | | | | | |
|----|----|----|-----|-----|-----|
| 50 | 60 | 80 | 100 | 120 | 150 |
| ■ | ■ | ■ | ■ | ■ | □ |

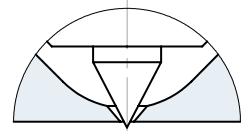
Contact us for other nozzle lengths!

*Volts alternating current

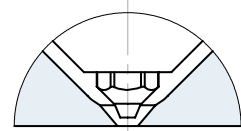
■ available □ on request



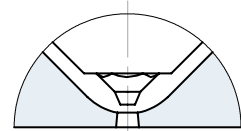
SMT – open nozzle with tip
version "Tip"
Antechamber version A

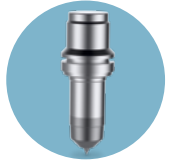


DMT – open nozzle with straight outlet
version C
Antechamber version A



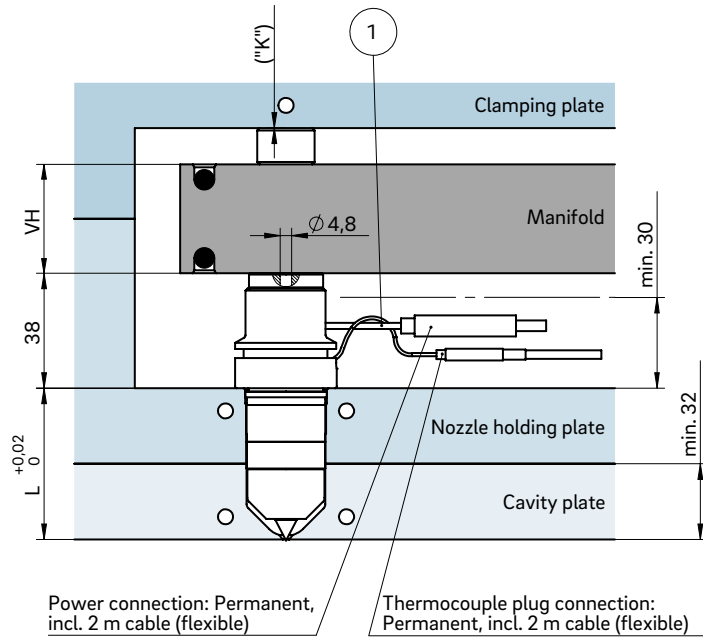
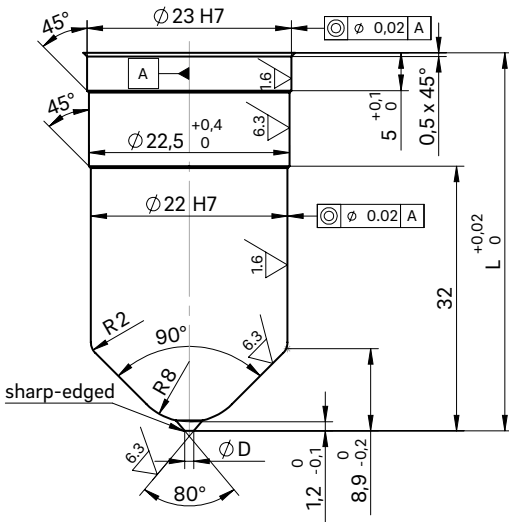
DMT – open nozzle with straight outlet
version A
Antechamber version C



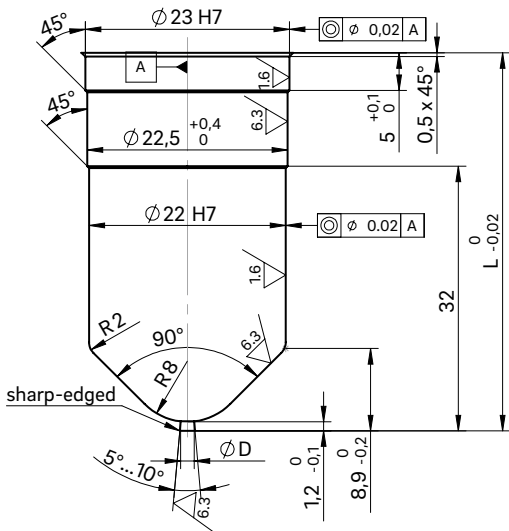


INSTALLATION

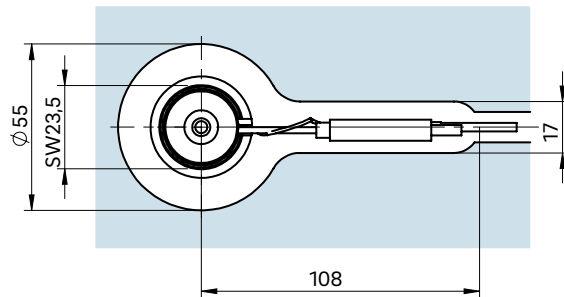
Open nozzle with tip
Nozzle type version C
Antechamber version A



Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



Example cutout for nozzle head, power and thermocouple plug connections



① Power and thermocouple plug connections in this area can only be bent once; minimum radius: R8
SW = flat area on nozzle head

Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 ± 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|---------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |



Hot runner nozzle type 6SMT/6DMT

Open system nozzle with conventional heating element, for minimal spacing, not screwed to the manifold

TECHNICAL DATA

6SMT/6DMT

| | |
|--------------------------|--|
| Melt channel Ød | 6.0 mm |
| Nozzle type | SMT – open with tip DMT – open with straight outlet |
| Operating voltage | 230 V _{AC} * |

Nominal length of the nozzle (L) in mm

| | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|
| 50 | 60 | 80 | 100 | 120 | 150 | 200 | 250 |
| ■ | ■ | ■ | ■ | □ | □ | □ | □ |

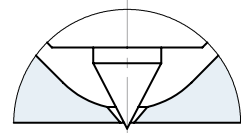
Contact us for other nozzle lengths!

*Volts alternating current

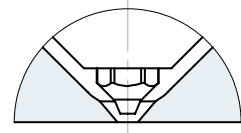
■ available □ on request



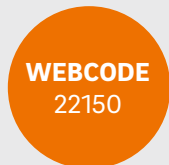
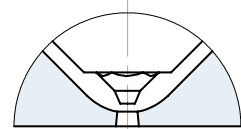
SMT – open nozzle with tip
version "Tip"
Antechamber version A



DMT – open nozzle with straight outlet
version C
Antechamber version A



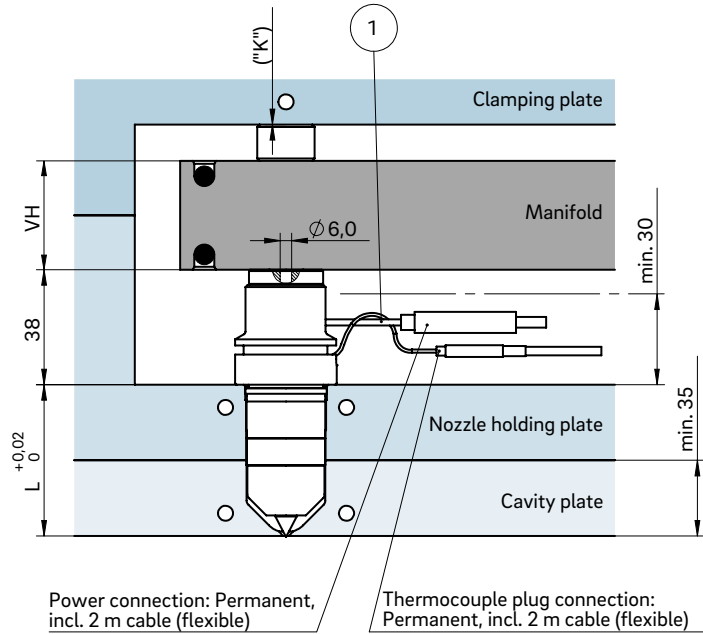
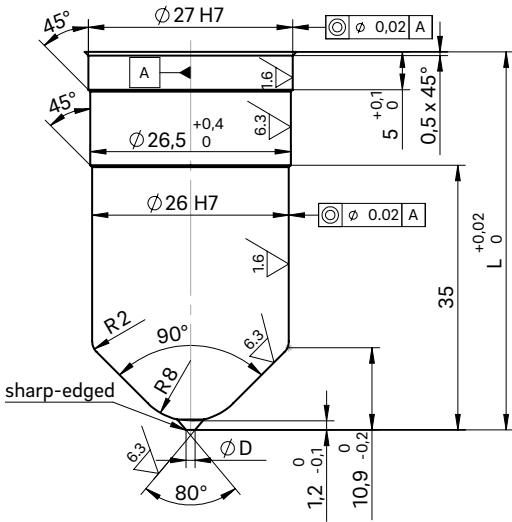
DMT – open nozzle with straight outlet
version A
Antechamber version C



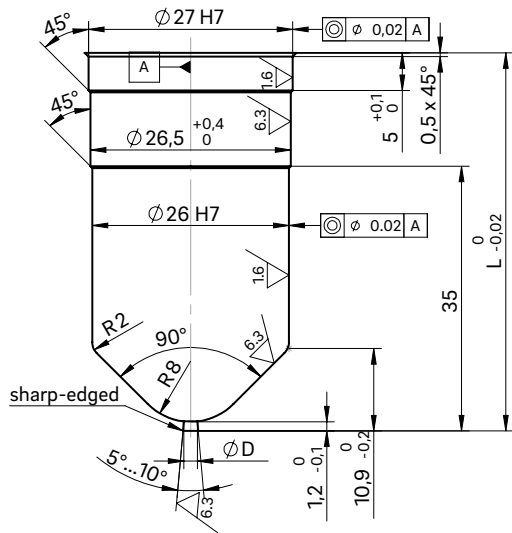


INSTALLATION

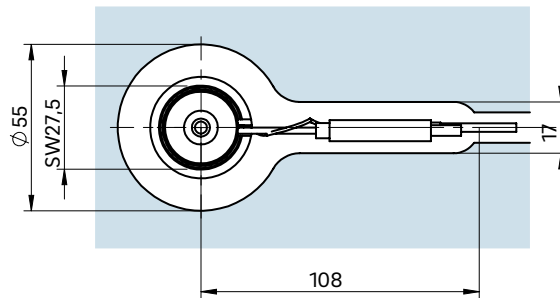
Open nozzle with tip
Nozzle type version C
Antechamber version A



Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



Example cutout for nozzle head, power and thermocouple plug connections



① Power and thermocouple plug connections in this area can only be bent once; minimum radius: R8
SW = flat area on nozzle head

Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|---------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |



Hot runner nozzle type 3SMF-K/3DMF-K

Open system nozzle with thick-film heating element (BlueFlow®), not screwed to the manifold

TECHNICAL DATA

3SMF-K/3DMF-K

| | |
|---|--|
| Melt channel Ød | 2.8 mm |
| Nozzle type | SMF – open with tip DMF – open with straight outlet |
| Operating voltage | 230 V _{AC} * |
| Nominal length of the nozzle (L): 30 mm | |

*Volts alternating current

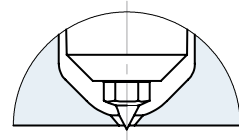
NOTE

Can **also** be used laterally.

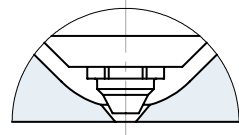
BlueFlow® hot runner nozzle type SMF/DMF is not intended for sale or use in the USA or Canada!



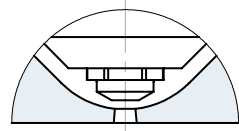
SMF – open nozzle with tip version "Tip" Antechamber version A



DMF – open nozzle with straight outlet version C Antechamber version A



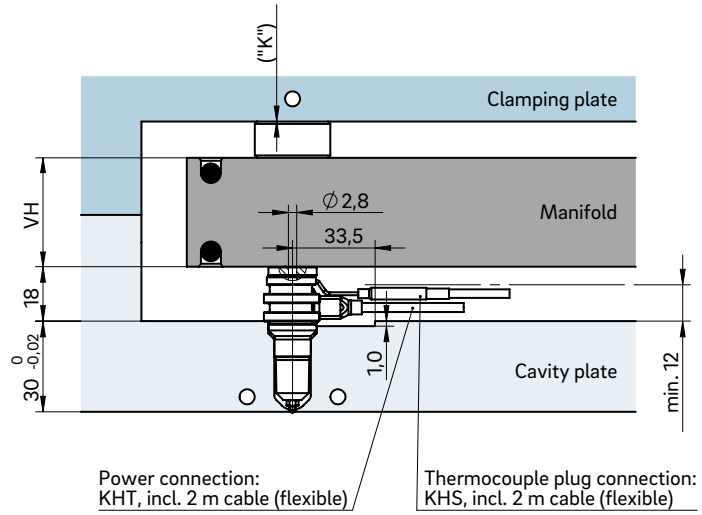
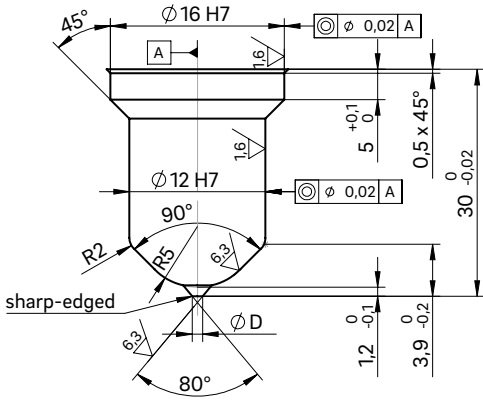
DMF – open nozzle with straight outlet version A Antechamber version C



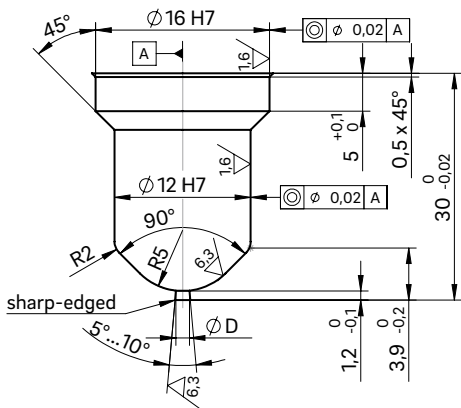


INSTALLATION

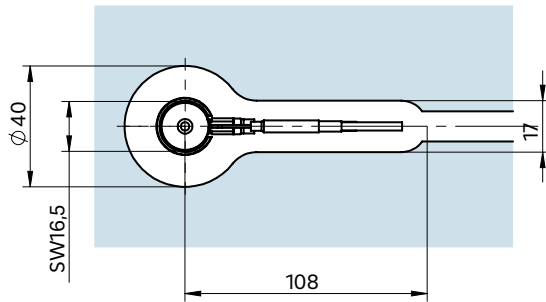
Open nozzle with tip
Nozzle type version C
Antechamber version A



Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



Example cutout for nozzle head, power and thermocouple plug connections



SW = flat area on nozzle head

Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|-----------------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |



Hot runner nozzle type 5SMF-K/5DMF-K

Open system nozzle with thick-film heating element (BlueFlow®), not screwed to the manifold

TECHNICAL DATA

5SMF-K/5DMF-K

| | |
|-----------------------------------|--|
| Melt channel Ød | 4.8 mm |
| Nozzle type | SMF – open with tip DMF – open with straight outlet |
| Operating voltage | 230 V _{AC} * |
| Nominal length of the nozzle (L): | 30 mm |

*Volts alternating current

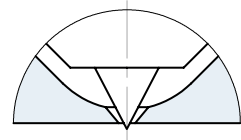
NOTE

Can **also** be used laterally.

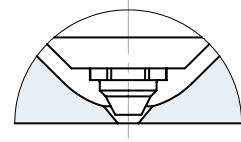
BlueFlow® hot runner nozzle type SMF/DMF is not intended for sale or use in the USA or Canada!



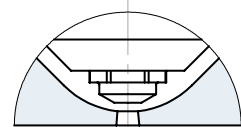
SMF – open nozzle with tip version "Tip" Antechamber version A



DMF – open nozzle with straight outlet version C Antechamber version A



DMF – open nozzle with straight outlet version A Antechamber version C

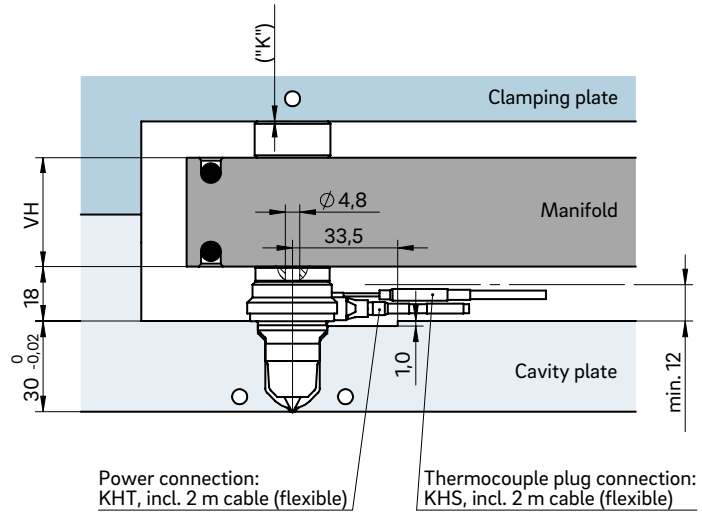
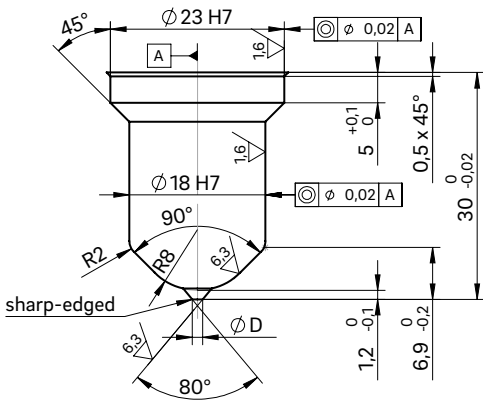


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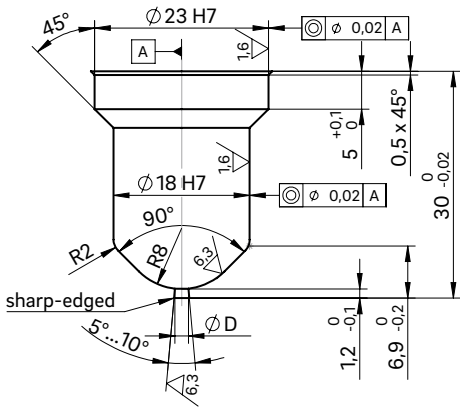


INSTALLATION

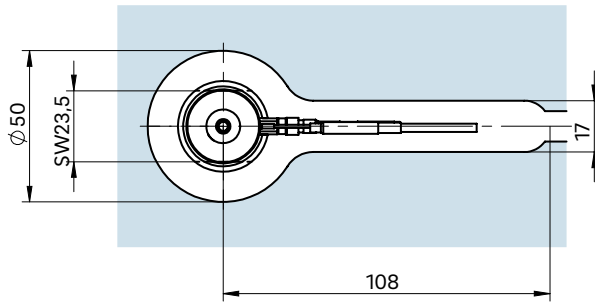
Open nozzle with tip
Nozzle type version C
Antechamber version A



Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



Example cutout for nozzle head, power and thermocouple plug connections



SW = flat area on nozzle head

Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|---------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |



Hot runner nozzle type 8SMF-K/8DMF-K

Open system nozzle with thick-film heating element (BlueFlow®), not screwed to the manifold

TECHNICAL DATA

8SMF-K/8DMF-K

| | |
|-----------------------------------|--|
| Melt channel Ød | 7.5 mm |
| Nozzle type | SMF – open with tip DMF – open with straight outlet |
| Operating voltage | 230 V _{AC} * |
| Nominal length of the nozzle (L): | 30 mm |

*Volts alternating current

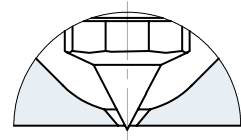
NOTE

Can **also** be used laterally.

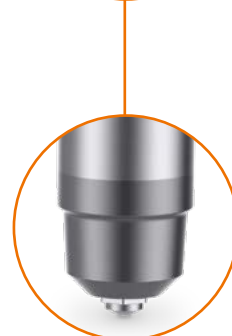
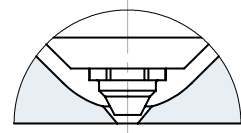
BlueFlow® hot runner nozzle type SMF/DMF is not intended for sale or use in the USA or Canada!



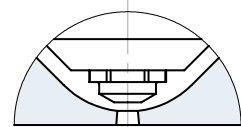
SMF – open nozzle with tip
version "Tip"
Antechamber version A



DMF – open nozzle with straight outlet
version C
Antechamber version A



DMF – open nozzle with straight outlet
version A
Antechamber version C

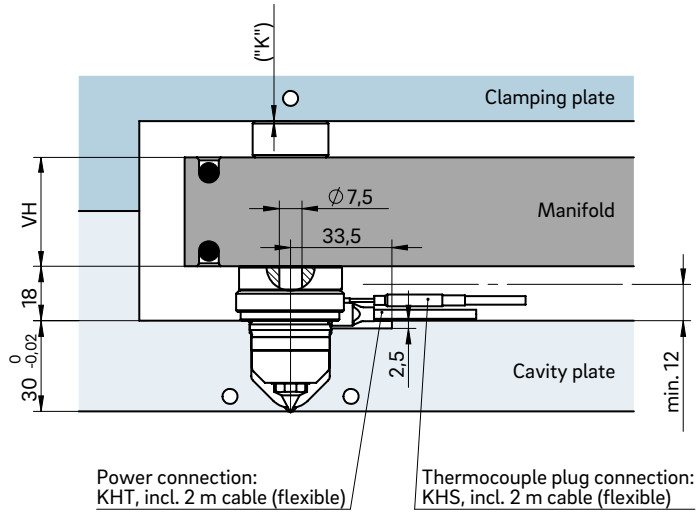
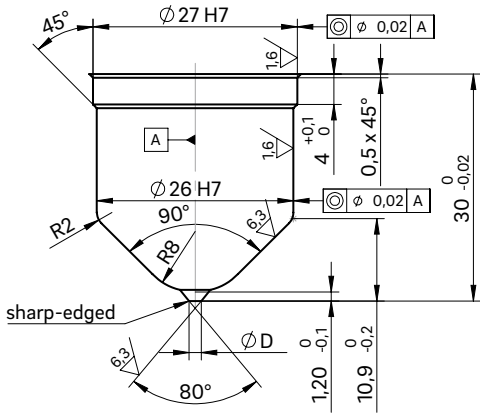


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INSTALLATION

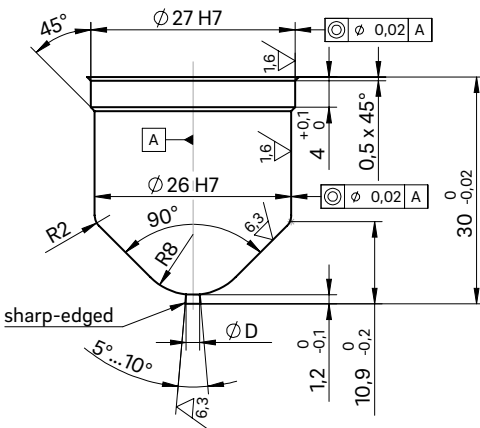
Open nozzle with tip
Nozzle type version C
Antechamber version A



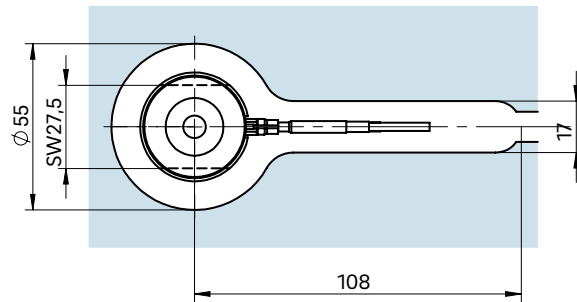
Power connection:
KHT, incl. 2 m cable (flexible)

Thermocouple plug connection:
KHS, incl. 2 m cable (flexible)

Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



Example cutout for nozzle head, power and thermocouple plug connections



SW = flat area on nozzle head

Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|---------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |



Hot runner nozzle type 5SMT-K/5DMT-K

Open system nozzle with conventional heating element,
not screwed to the manifold

TECHNICAL DATA

5SMT-K/5DMT-K

| | |
|-----------------------------------|--|
| Melt channel Ød | 4.8 mm |
| Nozzle type | SMT – open with tip DMT – open with straight outlet |
| Operating voltage | 230 V _{AC} * |
| Nominal length of the nozzle (L): | 30 mm |

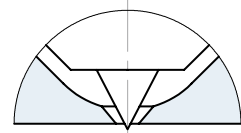
*Volts alternating current

NOTE

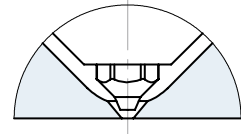
Can **also** be used laterally.



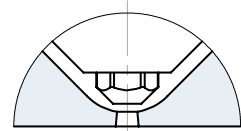
SMT – open nozzle with tip
version "Tip"
Antechamber version A



DMT – open nozzle with straight outlet
version C
Antechamber version A



DMT – open nozzle with straight outlet
version A
Antechamber version C

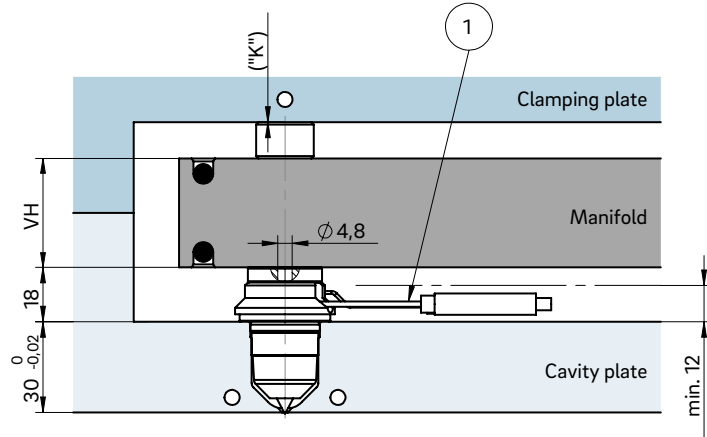
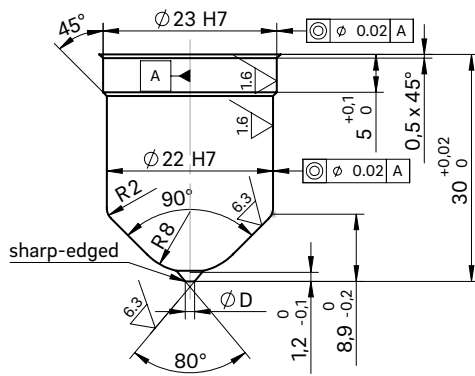


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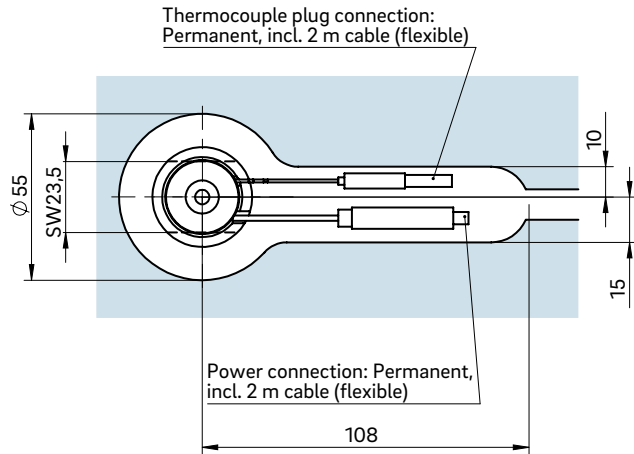
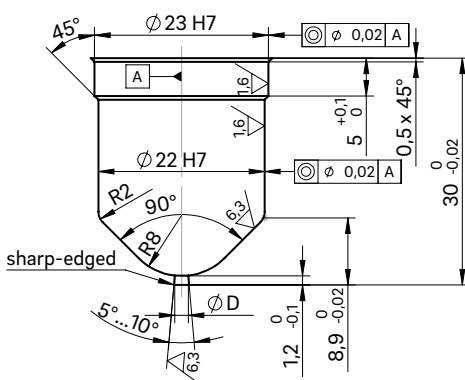
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



Example cutout for nozzle head, power and thermocouple plug connections

Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



- ① Power and thermocouple plug connections in this area can only be bent once; minimum radius: R8
SW = flat area on nozzle head

Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|---------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |



Hot runner nozzle type 3STF/3DTF

Open system nozzle with thick-film heating element (BlueFlow®), front-loading

TECHNICAL DATA

3STF/3DTF

| | |
|-------------------|--|
| Melt channel Ød | 2.8 mm |
| Nozzle type | STF – open with tip DTF – open with straight outlet |
| Operating voltage | 230 V _{AC} * |

Nominal length of the nozzle (L) in mm

| | | |
|----|----|-----|
| 50 | 80 | 120 |
| ■ | ■ | ■ |

Contact us for other nozzle lengths!

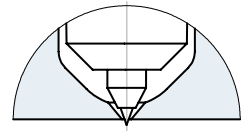
*Volts alternating current
■ available

NOTE

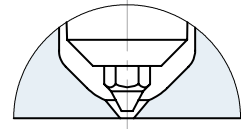
BlueFlow® hot runner nozzle type STF/DTF is not intended for sale or use in the USA or Canada!



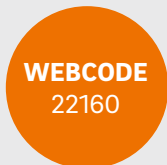
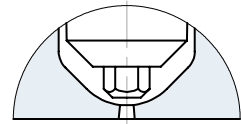
STF – open nozzle with tip version "Tip" Antechamber version A



DTF – open nozzle with straight outlet version C Antechamber version A



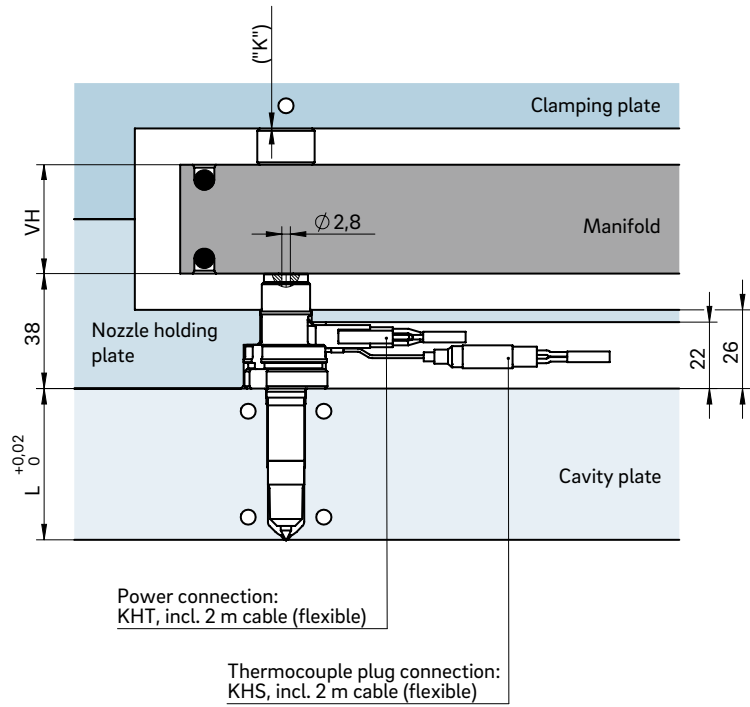
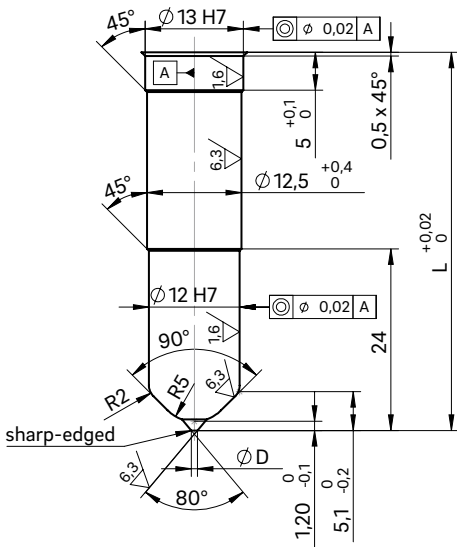
DTF – open nozzle with straight outlet version A Antechamber version C



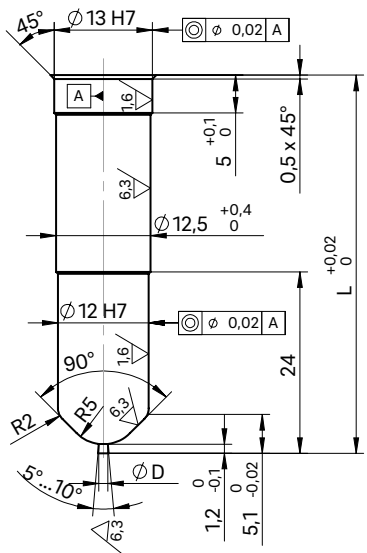


INSTALLATION

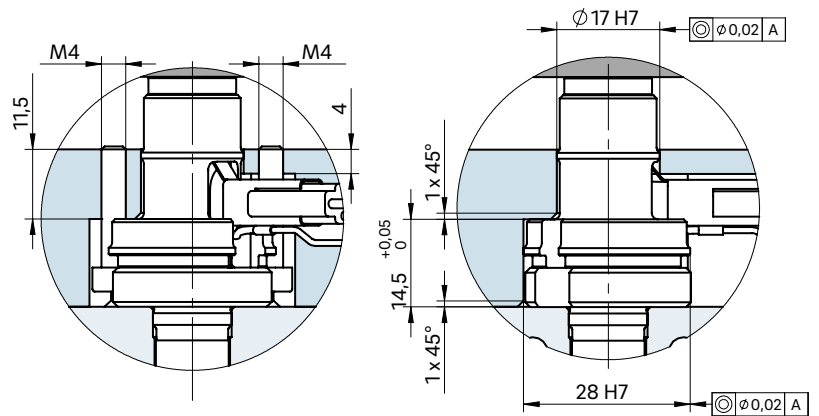
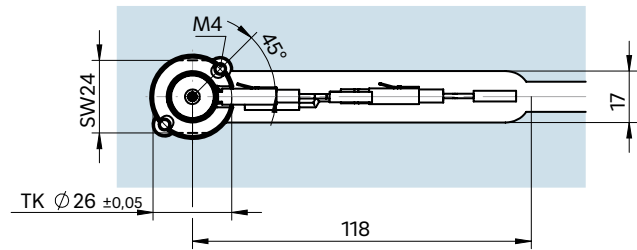
Open nozzle with tip
Nozzle type version C
Antechamber version A



Open nozzle with tip
Nozzle type version C
Antechamber version A



Example cutout for nozzle head, power and thermocouple plug connections



Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|---------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |

SW = flat area on nozzle head



Hot runner nozzle type 4STT/4DTT

Open system nozzle with conventional heating element, front-loading

TECHNICAL DATA

4STT/4DTT

Melt channel Ød 3.8 mm

Nozzle type STT – open with tip
DTT – open with straight outlet

Operating voltage 230 V_{AC} *

Nominal length of the nozzle (L) in mm

50 60 80



Contact us for other nozzle lengths!

*Volts alternating current

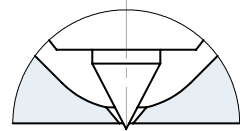
■ available

NOTE

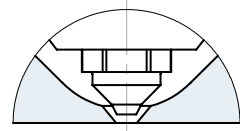
Power connector CMT and thermocouple connector CMLK are to be ordered separately.



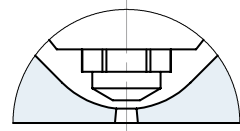
STT – open nozzle with tip version "Tip" Antechamber version A



DTT – open nozzle with straight outlet version C Antechamber version A



DTT – open nozzle with straight outlet version A Antechamber version C

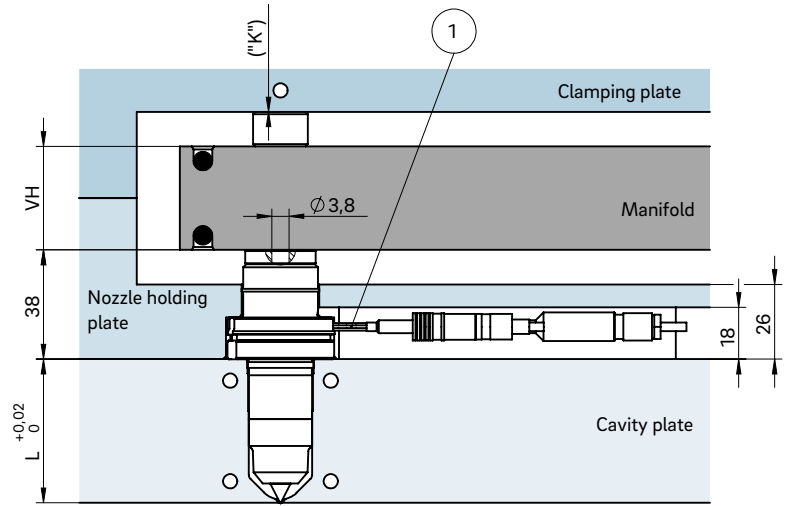
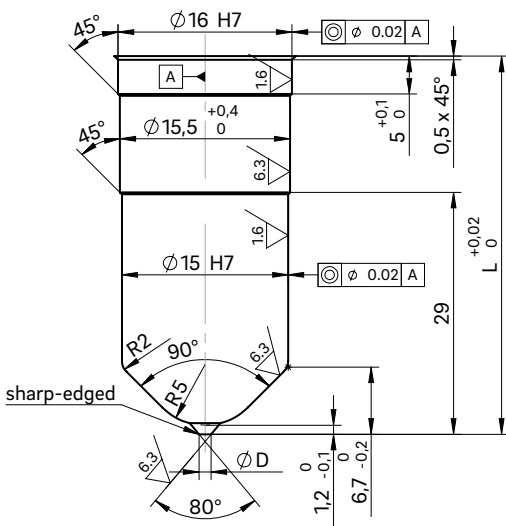


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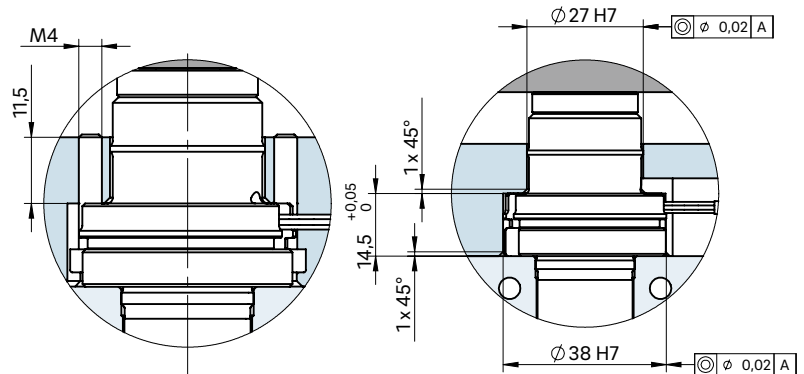
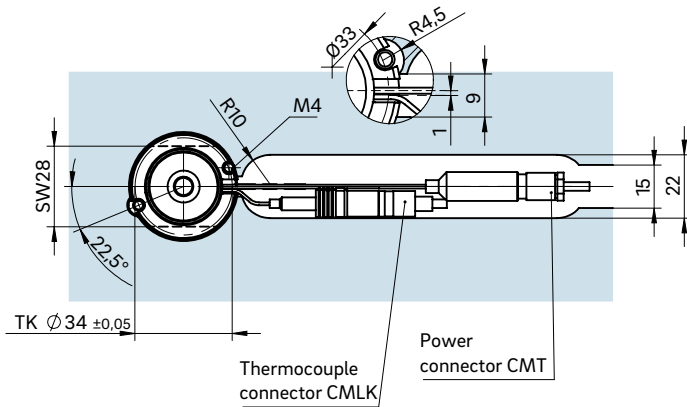
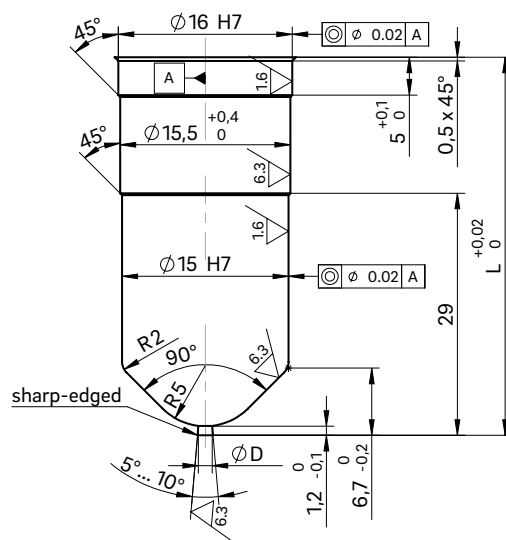
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



Example cutout for nozzle head, power and thermocouple plug connections

Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|---------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |

① Power and thermocouple plug connections in this area can only be bent once; minimum radius: R8

SW = flat area on nozzle head



Hot runner nozzle type 5STT/5DTT

Open system nozzle with conventional heating element, front-loading

TECHNICAL DATA

5STT/5DTT

Melt channel Ød 4.8 mm

Nozzle type STT – open with tip
DTT – open with straight outlet

Operating voltage 230 V_{AC} *

Nominal length of the nozzle (L) in mm

| | | | | |
|----|----|----|-----|-----|
| 50 | 60 | 80 | 100 | 120 |
| ■ | ■ | ■ | ■ | ■ |

Contact us for other nozzle lengths!

*Volts alternating current

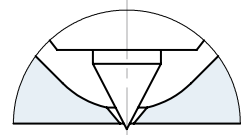
■ available

NOTE

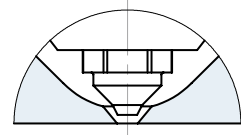
Power connector CMT and thermocouple connector CMLK are to be ordered separately.



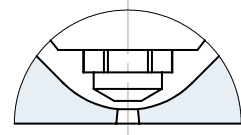
STT – open nozzle with tip
version "Tip"
Antechamber version A



DTT – open nozzle with straight outlet
version C
Antechamber version A



DTT – open nozzle with straight outlet
version A
Antechamber version C

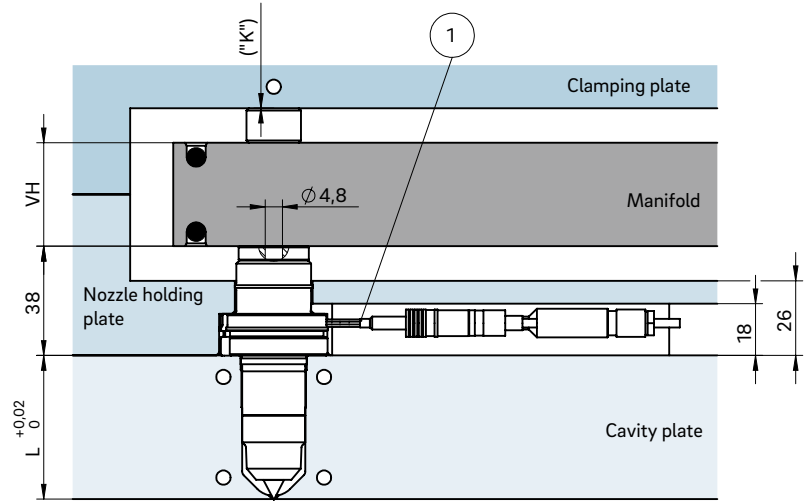
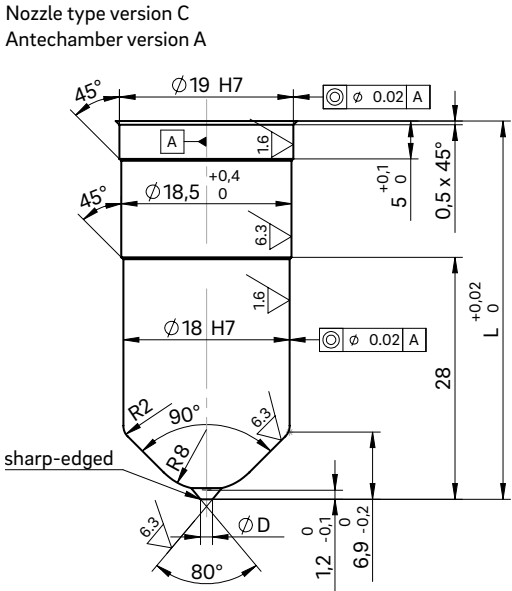


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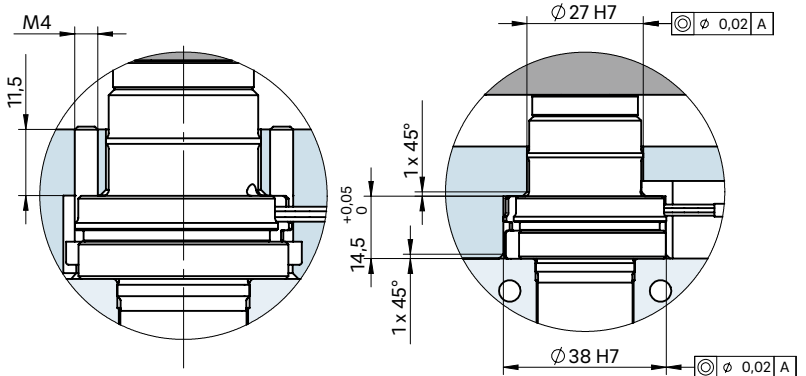
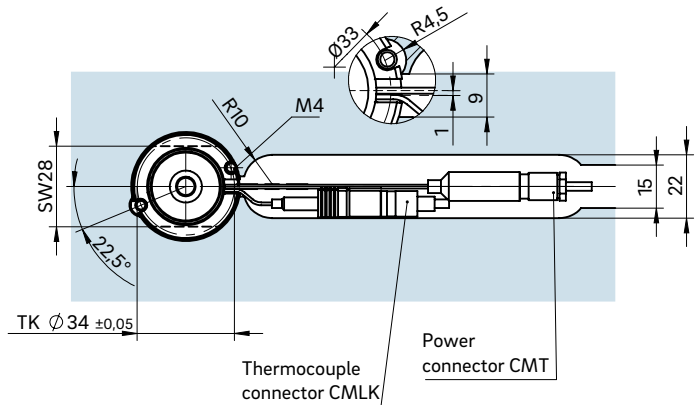
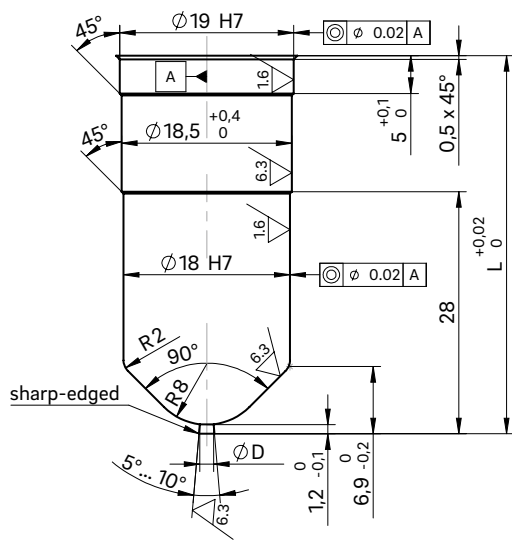
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



Example cutout for nozzle head, power and thermocouple plug connections

Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|---------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |

① Power and thermocouple plug connections in this area can only be bent once; minimum radius: R8

SW = flat area on nozzle head



Hot runner nozzle type 6STT/6DTT

Open system nozzle with conventional heating element, front-loading

TECHNICAL DATA

6STT/6DTT

Melt channel Ød 6.0 mm

Nozzle type STT – open with tip
DTT – open with straight outlet

Operating voltage 230 V_{AC} *

Nominal length of the nozzle (L) in mm

| | | | | |
|----|----|----|-----|-----|
| 50 | 60 | 80 | 100 | 120 |
| ■ | ■ | ■ | ■ | ■ |

Contact us for other nozzle lengths!

*Volts alternating current

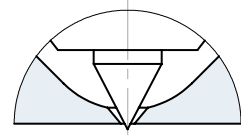
■ available

NOTE

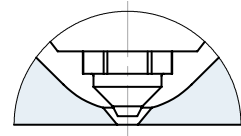
Power connector CMT and thermocouple connector CMLK are to be ordered separately.



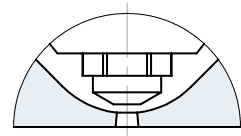
STT – open nozzle with tip
"Tip" version
Antechamber version A



DTT – open nozzle with straight outlet
version C
Antechamber version A



DTT – open nozzle with straight outlet
version A
Antechamber version C

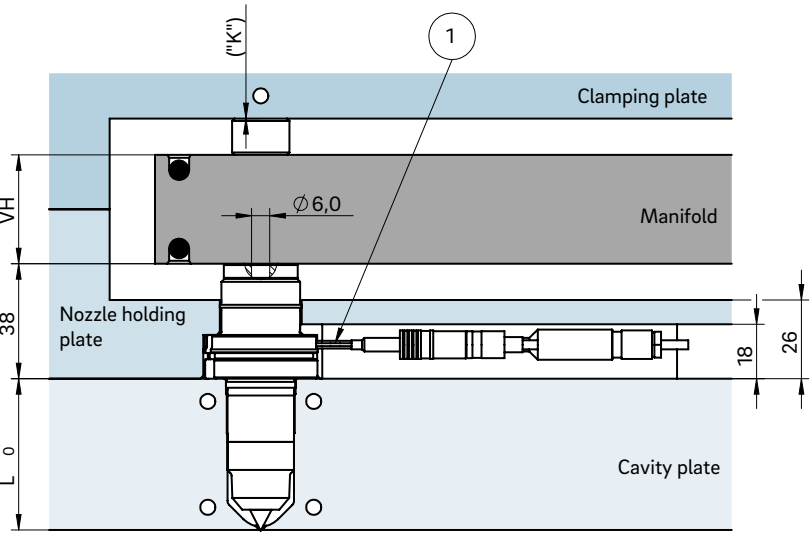
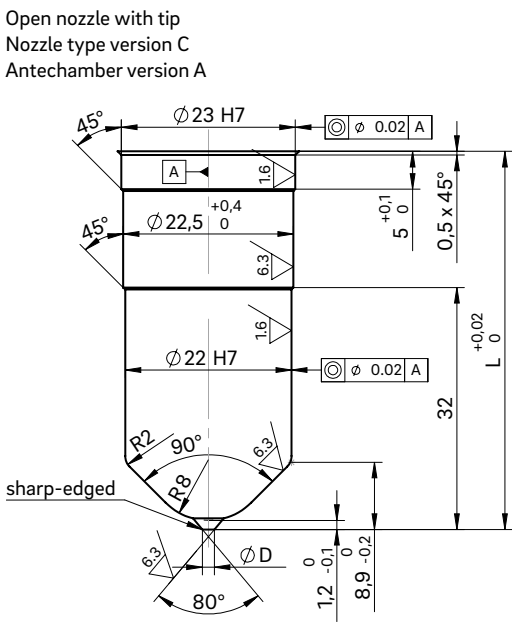


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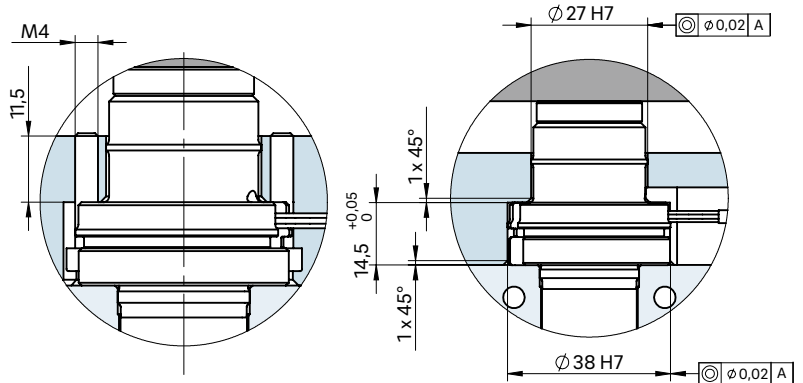
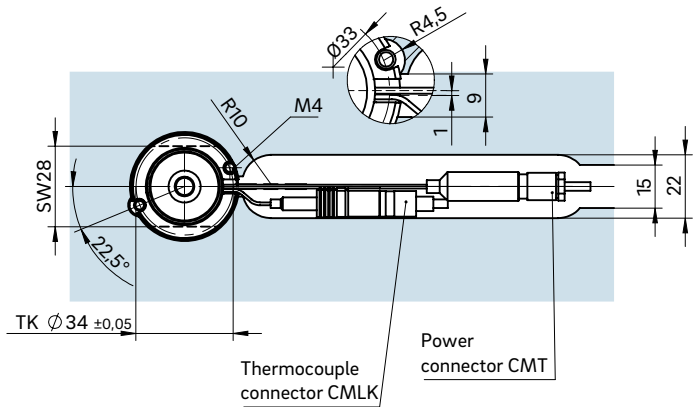
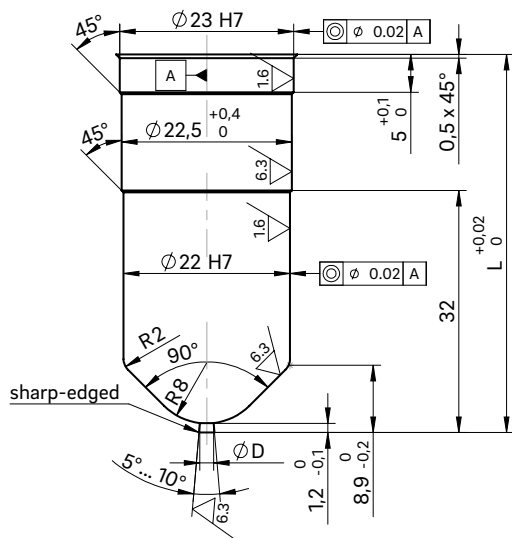
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A



Example cutout for nozzle head, power and thermocouple plug connections

Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



Dimension "K" required for heat expansion is to be ensured by grinding the pressure pad (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the clamping plate when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!

| VH | ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|-------|---------|-------|-------|-------|-------|-------|-------|
| 36 mm | K (mm) | 0.021 | 0.059 | 0.098 | 0.137 | 0.177 | 0.217 |
| 46 mm | K (mm) | 0.033 | 0.078 | 0.124 | 0.170 | 0.218 | 0.264 |
| 56 mm | K (mm) | 0.046 | 0.097 | 0.150 | 0.203 | 0.258 | 0.311 |

① Power and thermocouple plug connections in this area can only be bent once; minimum radius: R8
SW = flat area on nozzle head