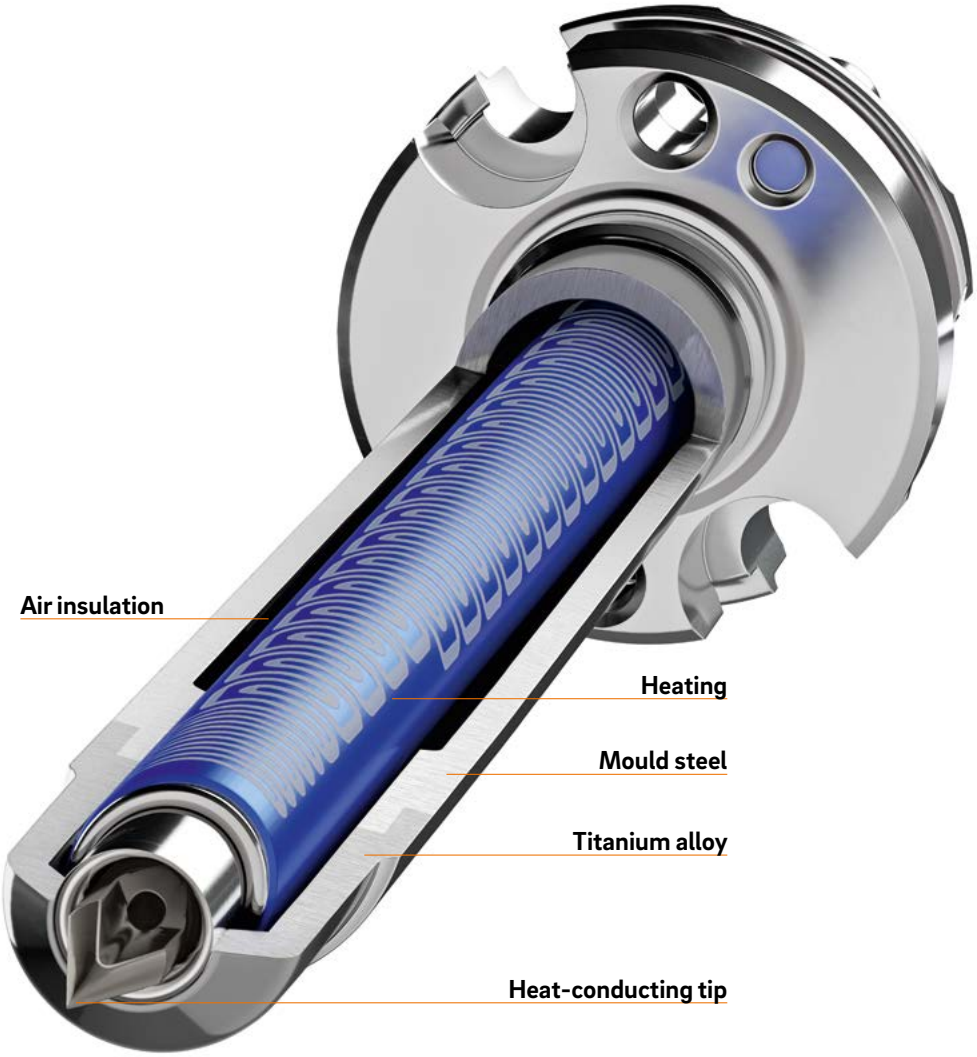
GÜNTHER®
HOT RUNNER TECHNOLOGY

Open hot runner systems

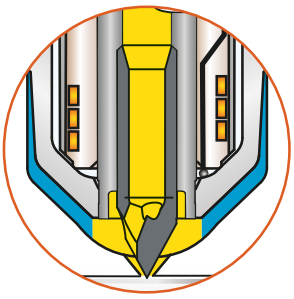
Hot runner nozzles

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.

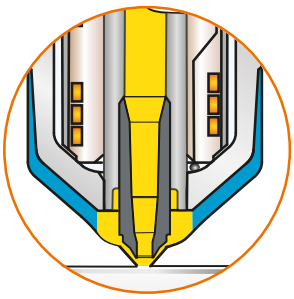


GATE GEOMETRY

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.

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**

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.

Conventional heating element | BlueFlow®

2.1 Single hot runner nozzles

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*

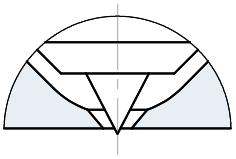
NOTE

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

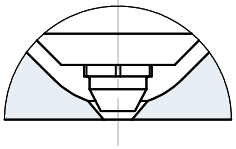
BlueFlow® hot runner nozzle type SEF/DEF is not intended for sale or use in the USA or Canada!

WEBCODE
21010

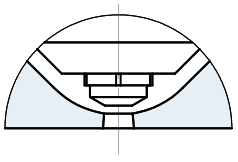
SEF – open nozzle with tip
version "Tip"
Antechamber version A



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

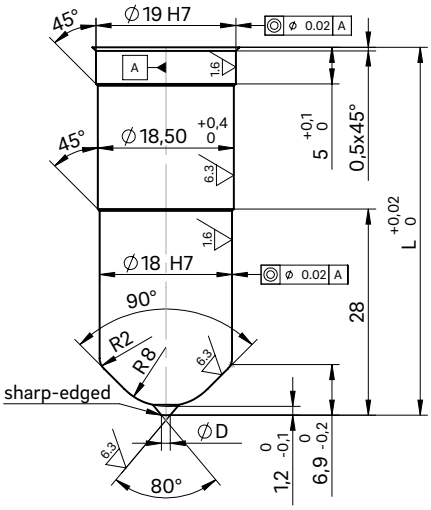


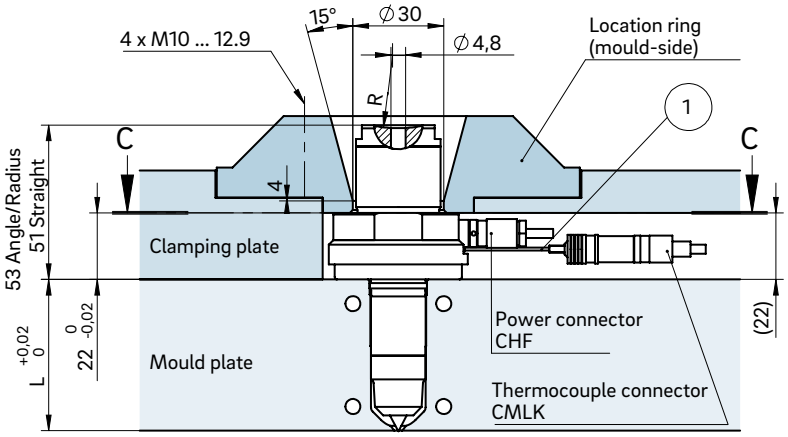
DEF – open nozzle with straight outlet
version A
Antechamber version C



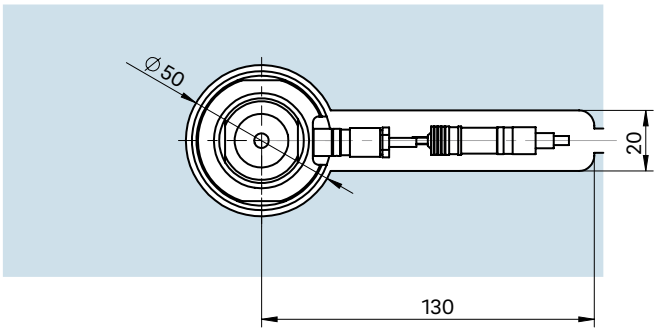
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

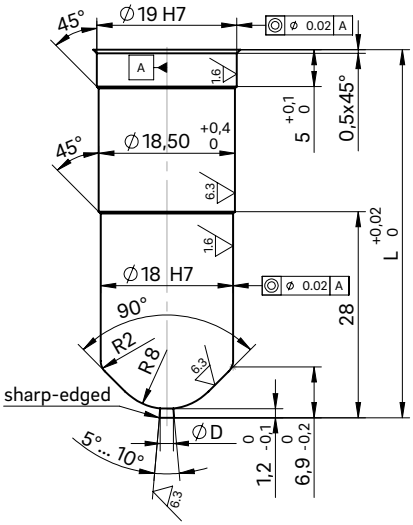




Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections



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



① Thermocouple plug connection in this area can be bent once; minimum radius: R8

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
■	■	■	■	■	■	□

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

Contact us for other nozzle lengths!

*Volts alternating current

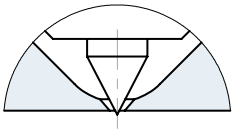
■ *available* □ *on request*

NOTE

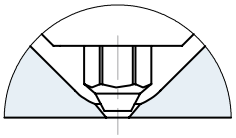
Fixed power and thermocouple connection.

WEBCODE
21020

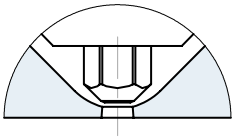
SET – open nozzle with tip
version "Tip"
Antechamber version A



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

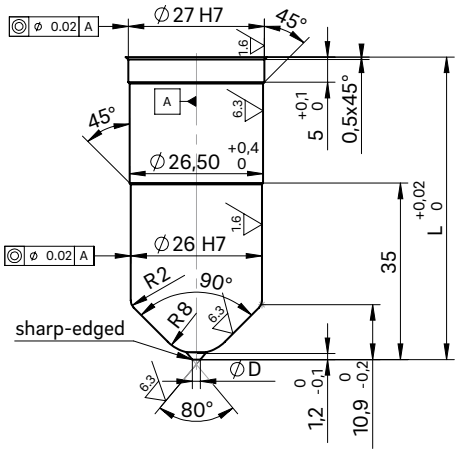


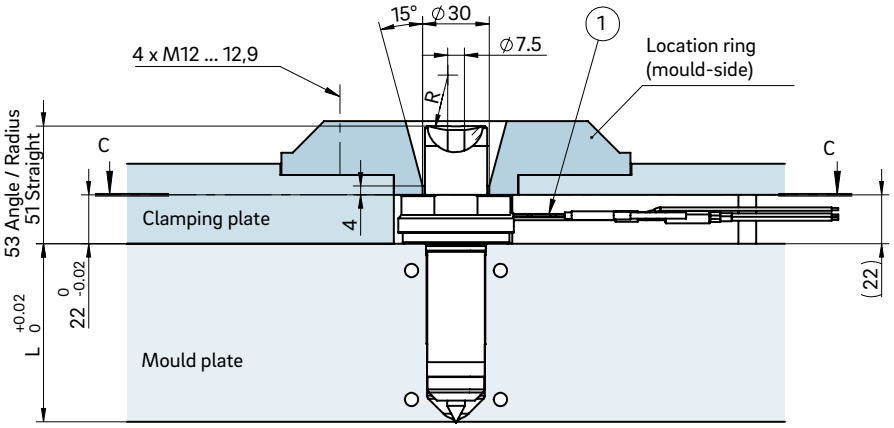
DET – open nozzle with straight outlet
version A
Antechamber version C



INSTALLATION

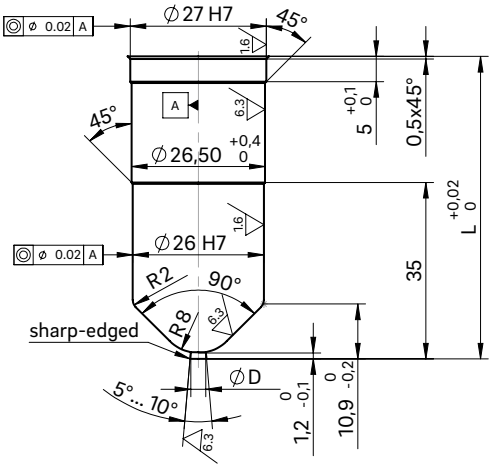
Open nozzle with tip
Nozzle type version C
Antechamber version A

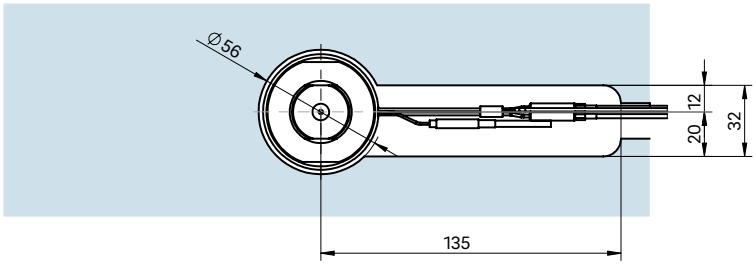




Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections

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
■	■	■	■	□	□

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

Contact us for other nozzle lengths!

*Volts alternating current

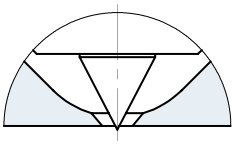
■ *available* □ *on request*

NOTE

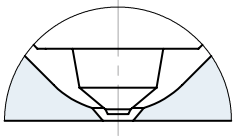
Fixed power and thermocouple connection.

WEBCODE
21030

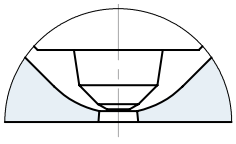
SET – open nozzle with tip
version "Tip"
Antechamber version A



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

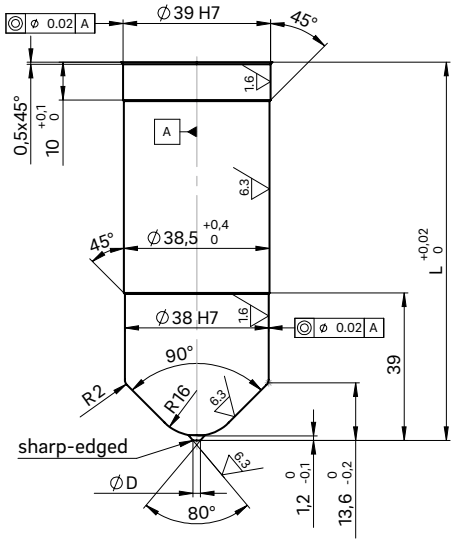


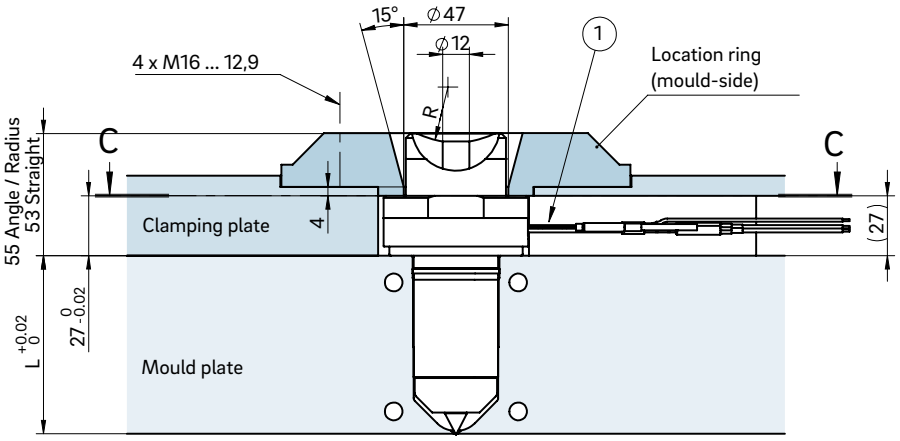
DET – open nozzle with straight outlet
version A
Antechamber version C



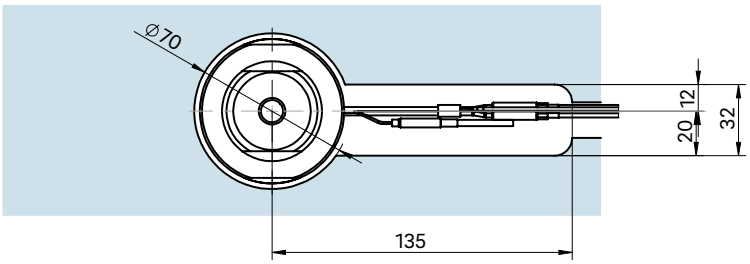
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

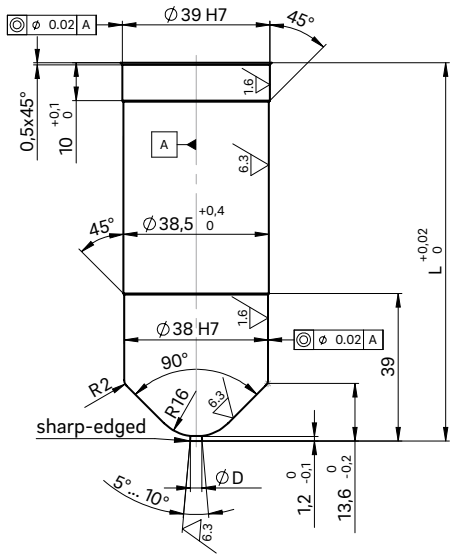




Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections



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

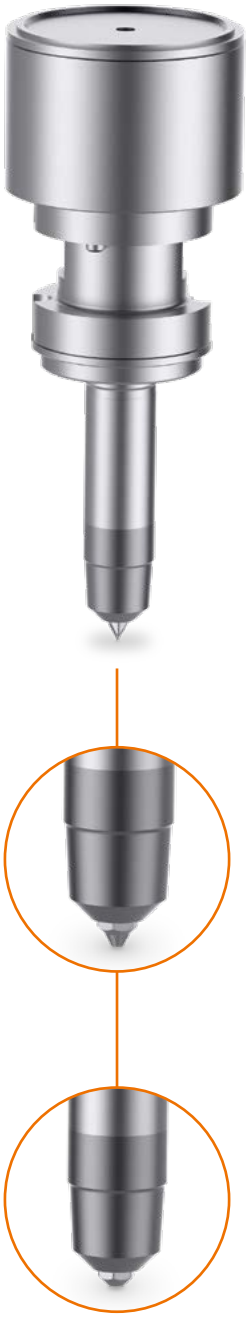
■ *available* □ *on request*

NOTE

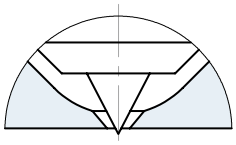
Power connector CHF and thermocouple connector CMLK are to be ordered separately.

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

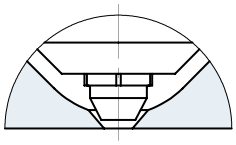
WEBCODE
21040



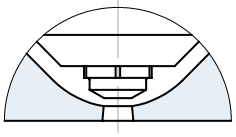
SHF – open nozzle with tip
version "Tip"
Antechamber version A



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

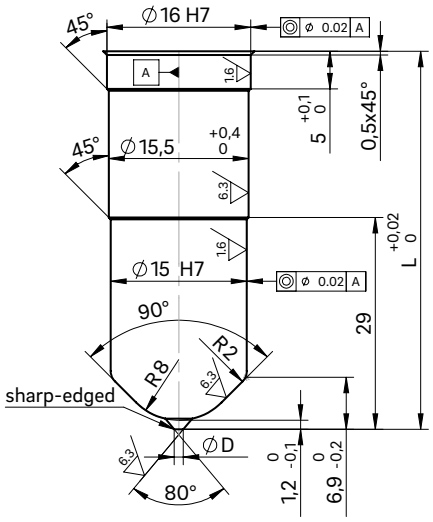


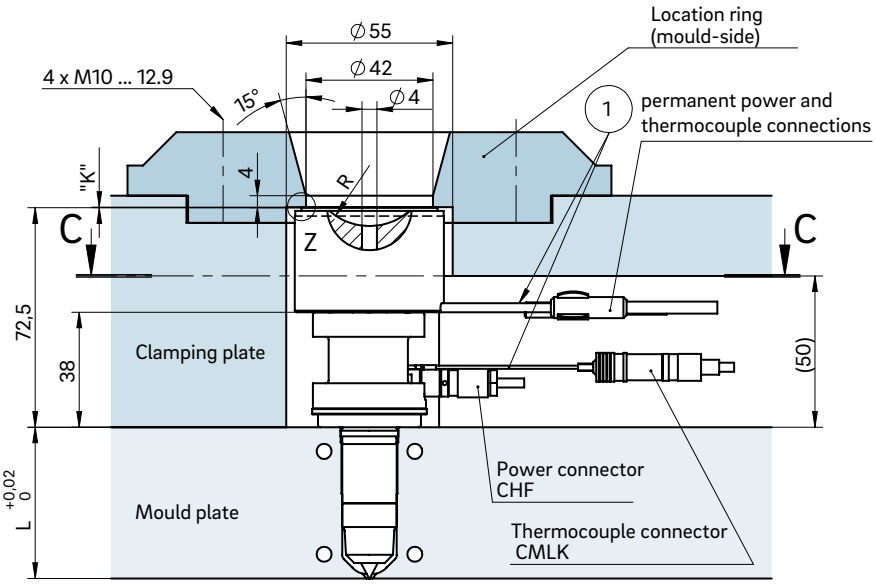
DHF – open nozzle with straight outlet
version A
Antechamber version C



INSTALLATION

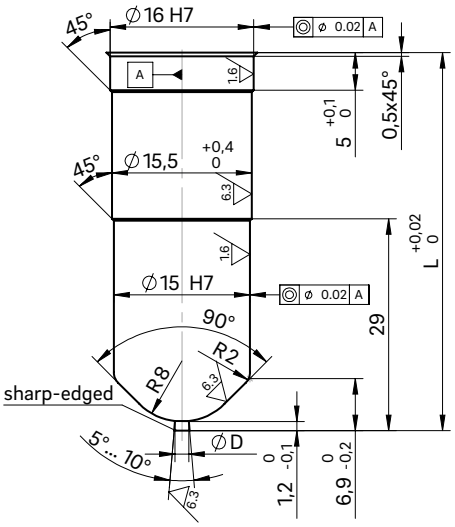
Open nozzle with tip
Nozzle type version C
Antechamber version A

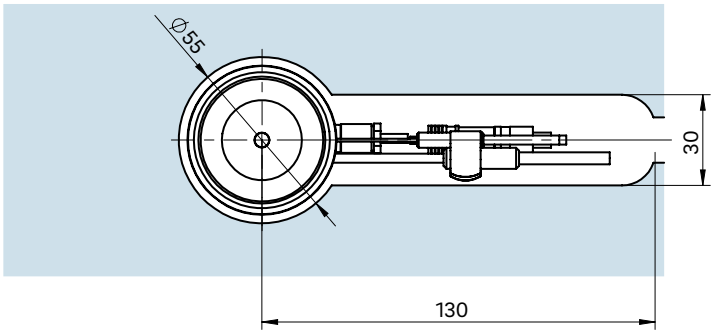




Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections

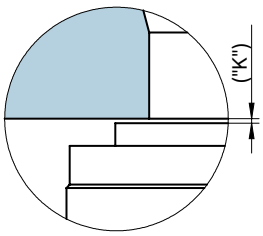
Open nozzle with straight outlet
Nozzle type version A
Antechamber version C





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

Detail "Z"



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 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*

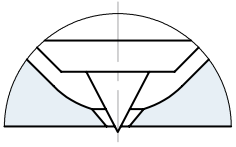
NOTE

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

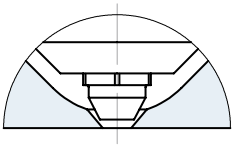
BlueFlow® hot runner nozzle type SHF/DHF is not intended for sale or use in the USA or Canada!

WEBCODE
21050

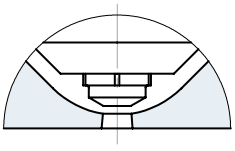
SHF – open nozzle with tip
version "Tip"
Antechamber version A



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

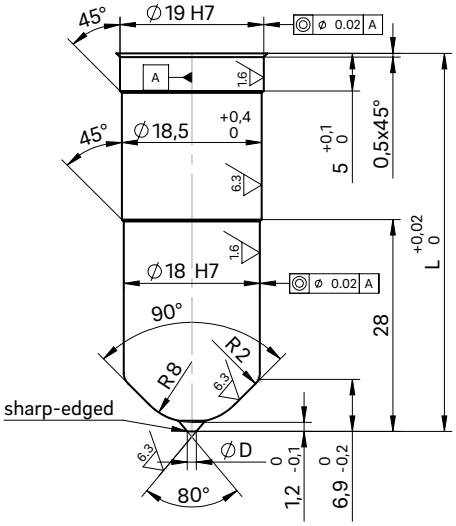


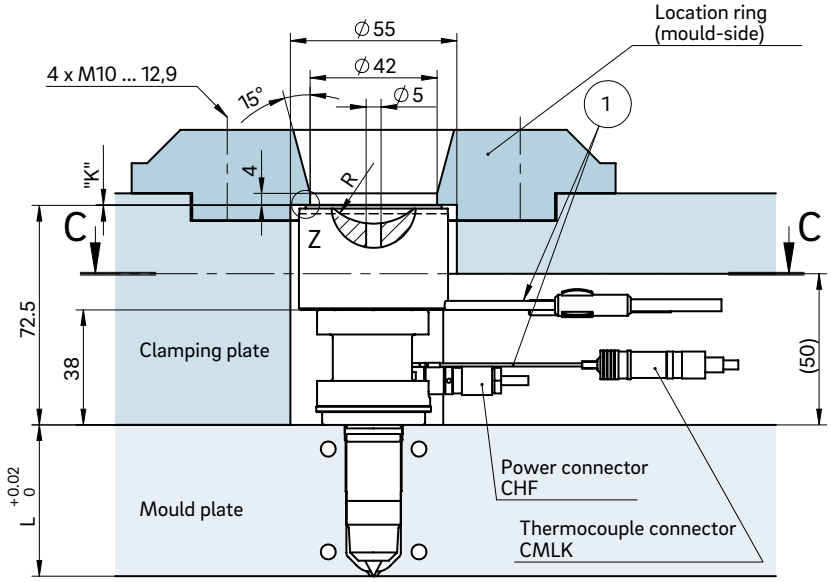
DHF – open nozzle with straight outlet
version A
Antechamber version C



INSTALLATION

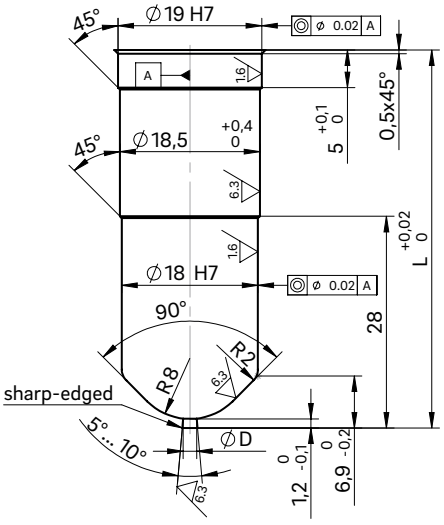
Open nozzle with tip
Nozzle type version C
Antechamber version A

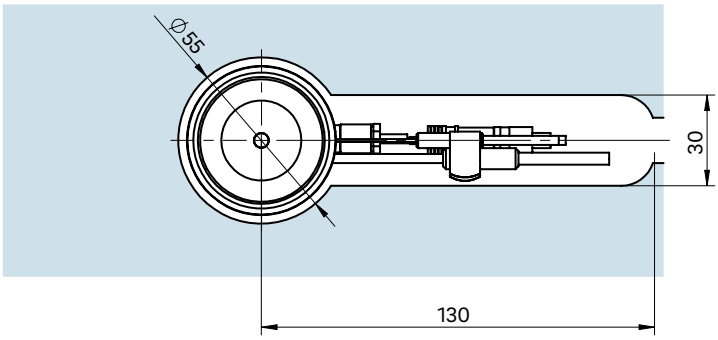




Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections

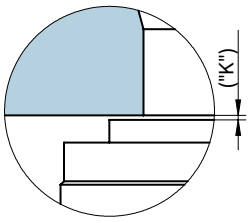
Open nozzle with straight outlet
Nozzle type version A
Antechamber version C





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

Detail "Z"



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*

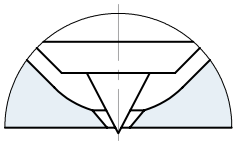
NOTE

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

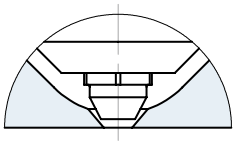
BlueFlow® hot runner nozzle type SHF/DHF is not intended for sale or use in the USA or Canada!

WEBCODE
21070

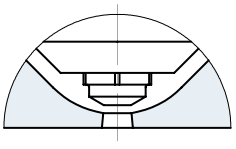
SHF – open nozzle with tip
version "Tip"
Antechamber version A



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

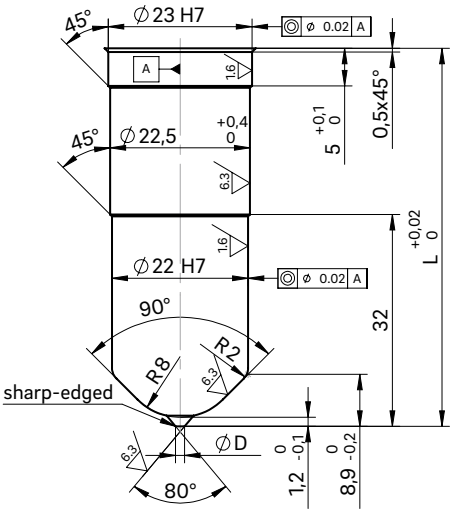


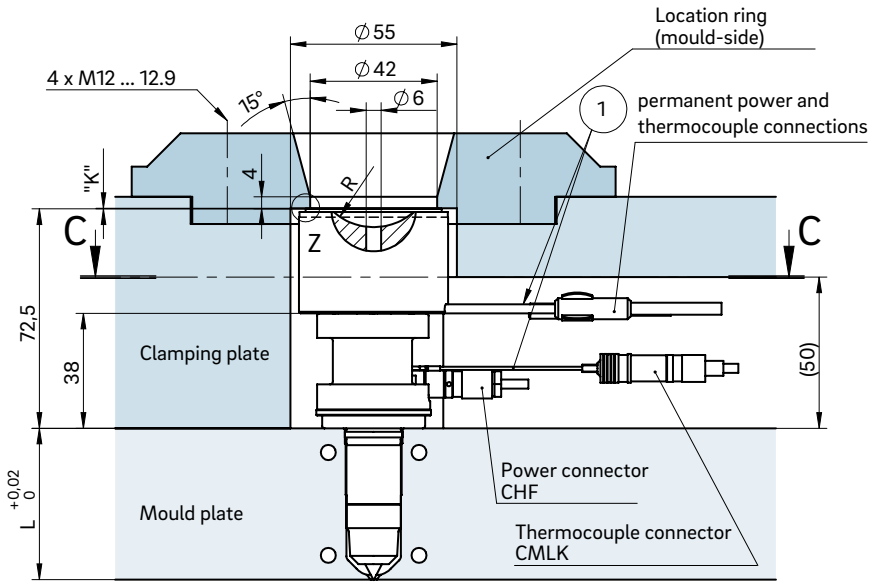
DHF – open nozzle with straight outlet
version A
Antechamber version C



INSTALLATION

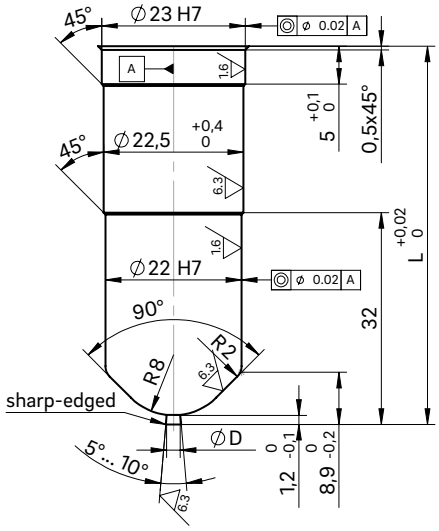
Open nozzle with tip
Nozzle type version C
Antechamber version A

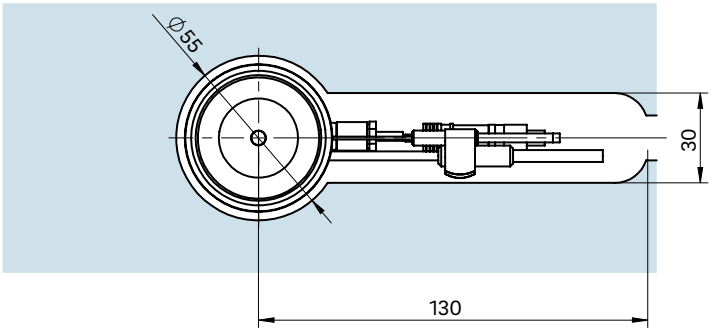




Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections

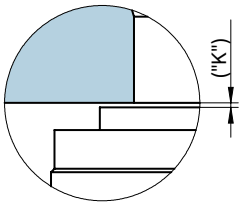
Open nozzle with straight outlet
Nozzle type version A
Antechamber version C





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

Detail "Z"



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

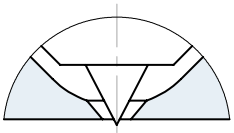
■ *available*

NOTE

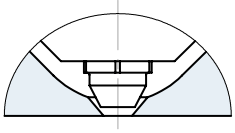
Power connector CMT and thermocouple connector CMLK are to be ordered separately.

WEBCODE
21060

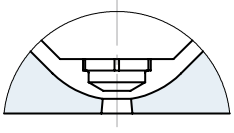
SHT – open nozzle with tip
version "Tip"
Antechamber version A



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

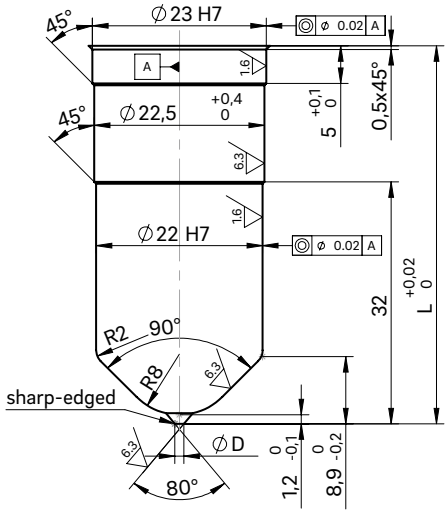


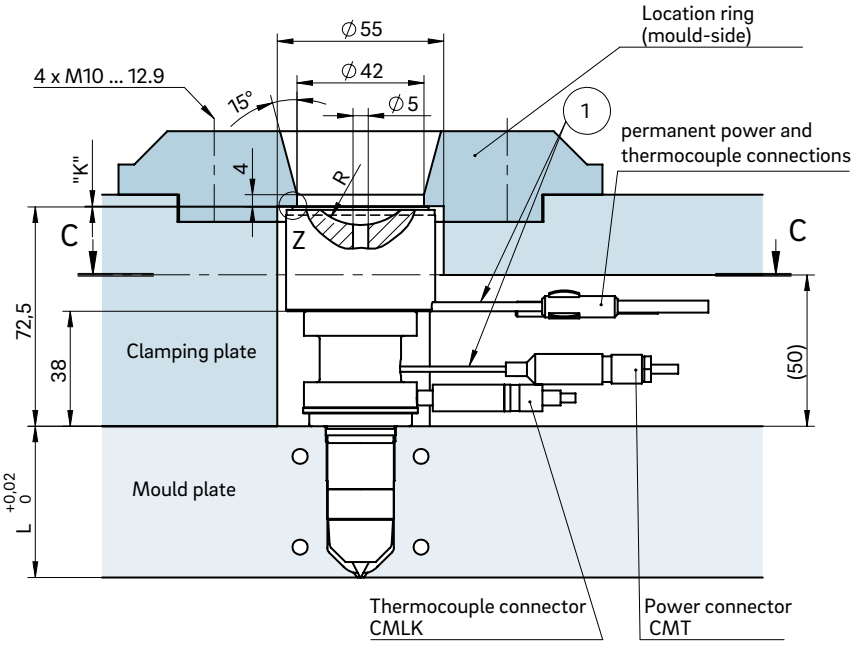
DHT – open nozzle with straight outlet
version A
Antechamber version C



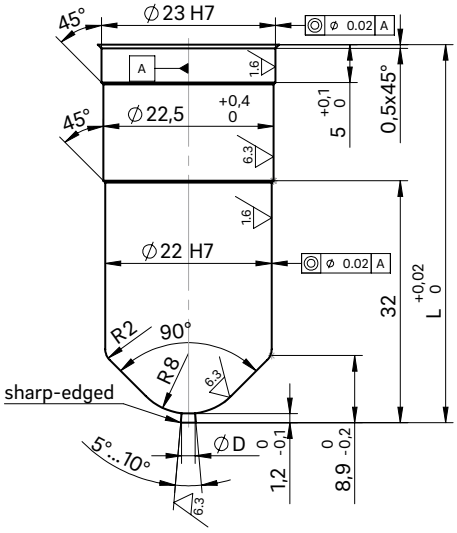
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

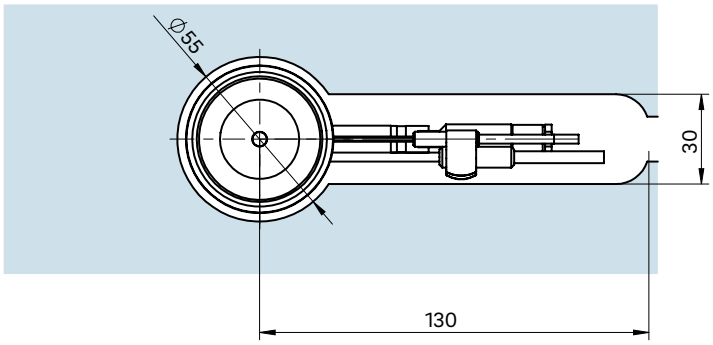




Open nozzle with straight outlet
Nozzle type version A
Antechamber version C

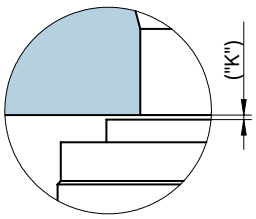


Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections



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

Detail "Z"



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

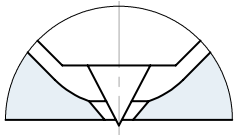
■ *available* □ *on request*

NOTE

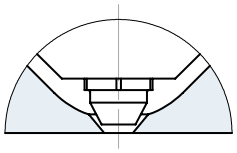
Power connector CMT and thermocouple connector CMLK are to be ordered separately.

WEBCODE
21080

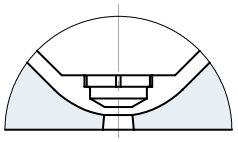
SHT – open nozzle with tip
version "Tip"
Antechamber version A



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

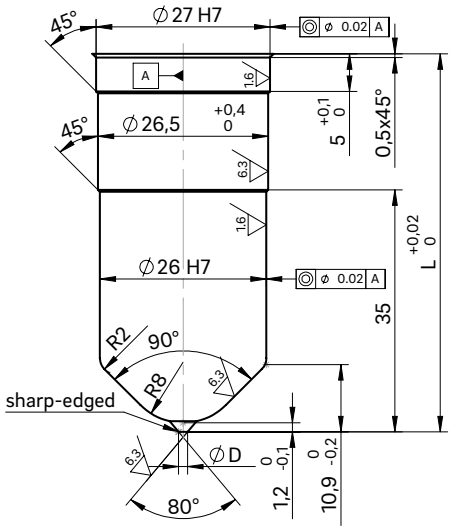


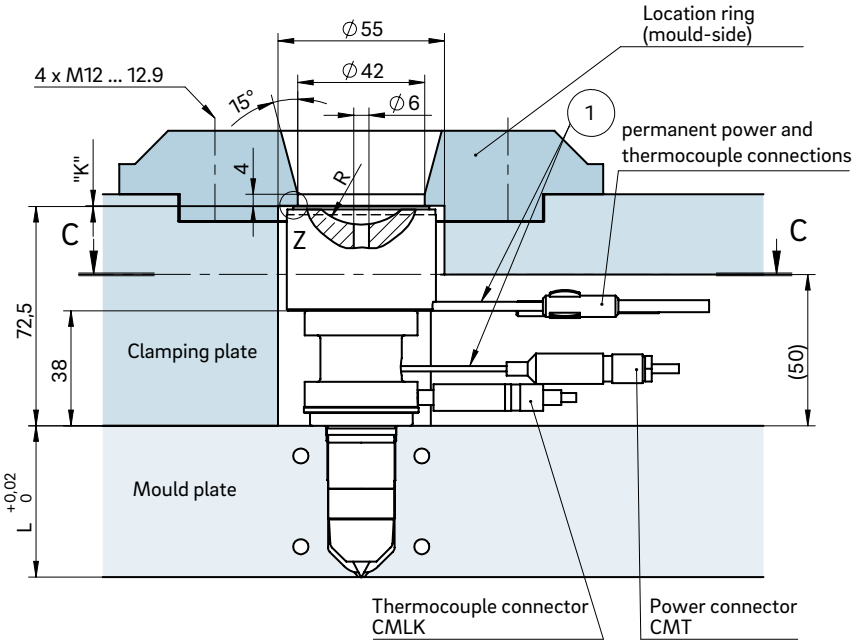
DHT – open nozzle with straight outlet
version A
Antechamber version C



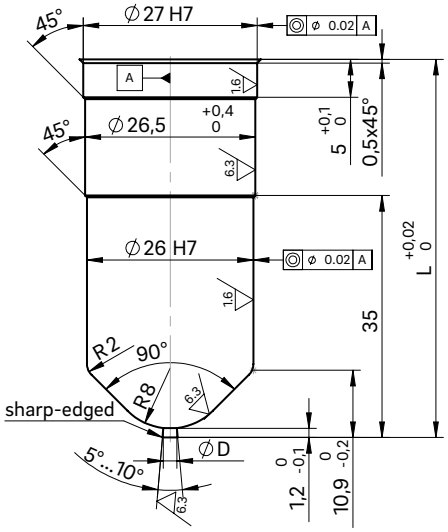
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

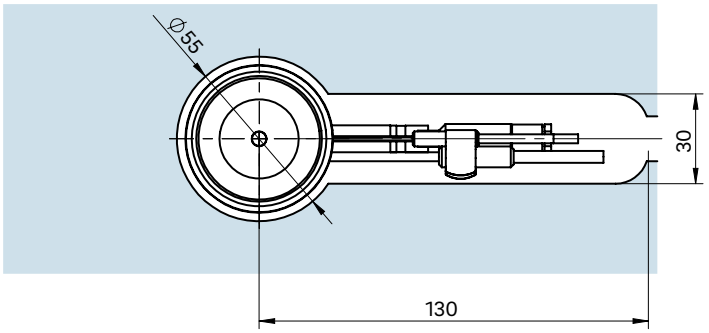




Open nozzle with straight outlet
Nozzle type version A
Antechamber version C

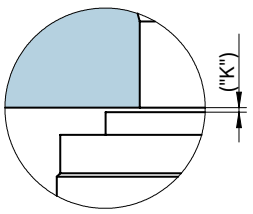


Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections



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

Detail "Z"



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

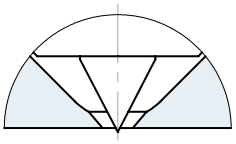
■ *available* □ *on request*

NOTE

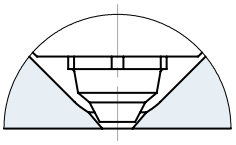
Power connector CMT and thermocouple connector CMLK are to be ordered separately.

WEBCODE
21090

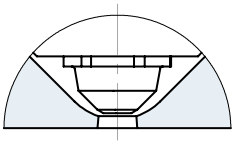
SHT – open nozzle with tip
version "Tip"
Antechamber version A

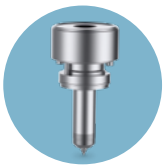


DHT – open nozzle with straight outlet
version C
Antechamber version A



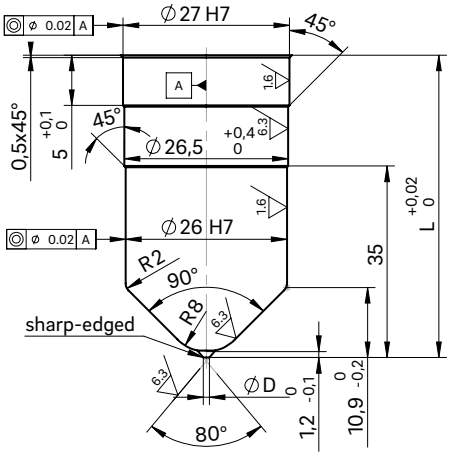
DHT – open nozzle with straight outlet
version A
Antechamber version C



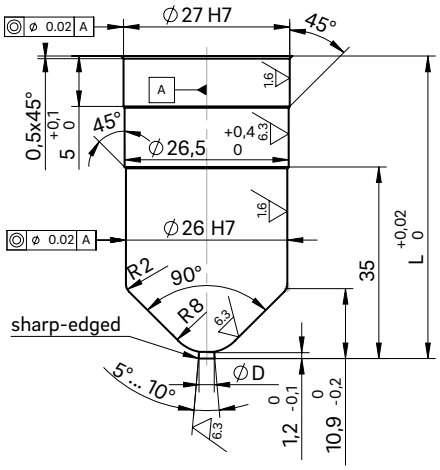


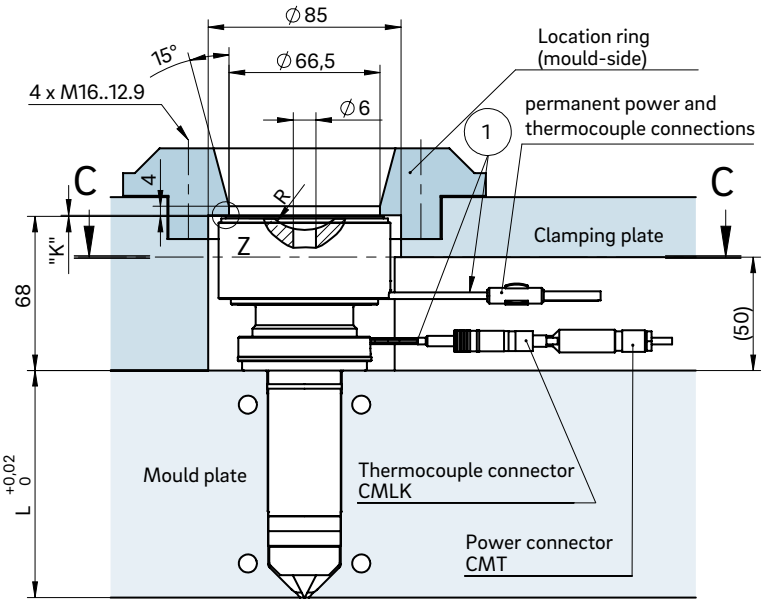
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

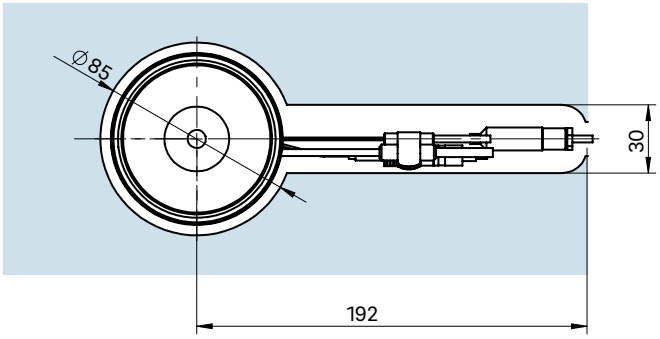


Open nozzle with straight outlet
Nozzle type version A
Antechamber version C





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

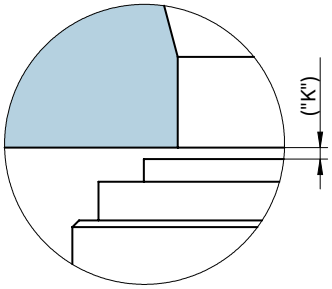


① Power and thermocouple plug connections in this area can be bent once; minimum radius: R8

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)	0.04	0.08	0.12	0.16	0.20	0.25

Detail "Z"



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

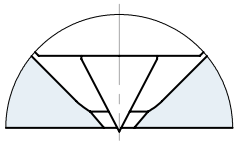
■ *available* □ *on request*

NOTE

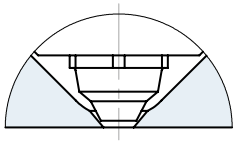
Power connector CMT and thermocouple connector CMLK are to be ordered separately.

WEBCODE
21100

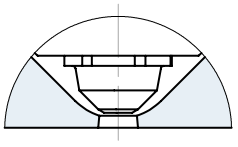
SHT – open nozzle with tip
version "Tip"
Antechamber version A



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

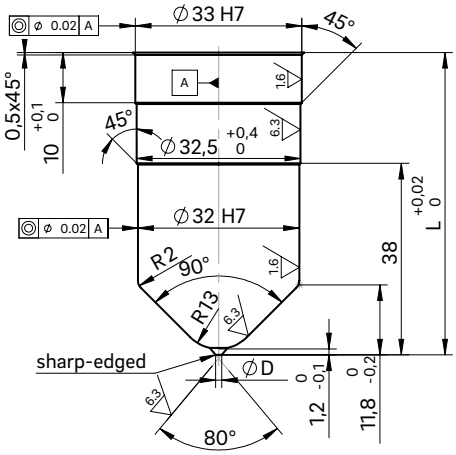


DHT – open nozzle with straight outlet
version A
Antechamber version C

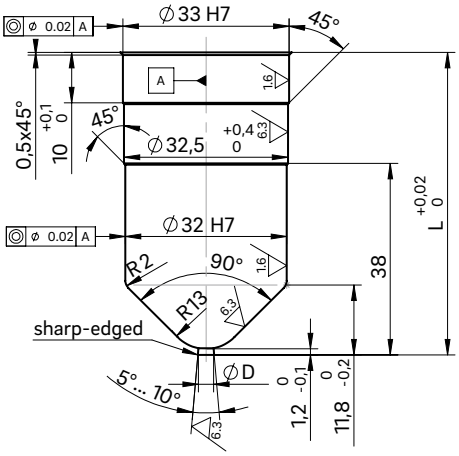


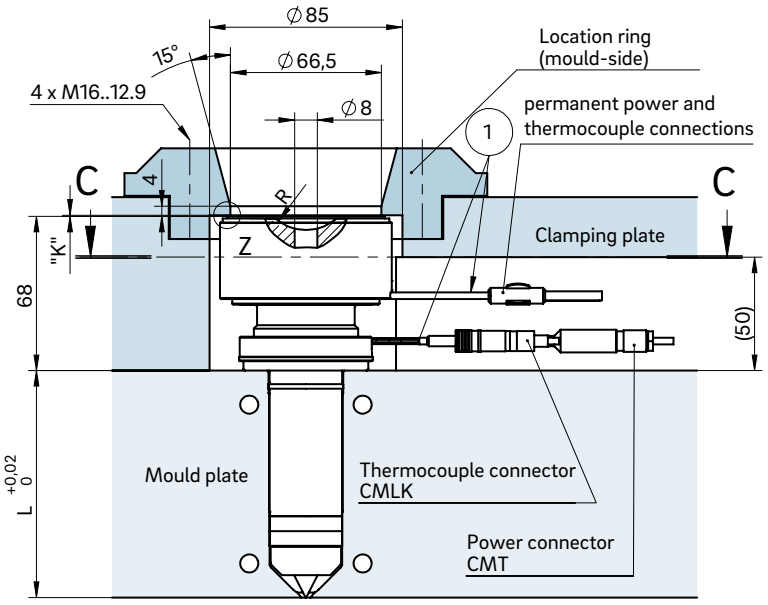
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

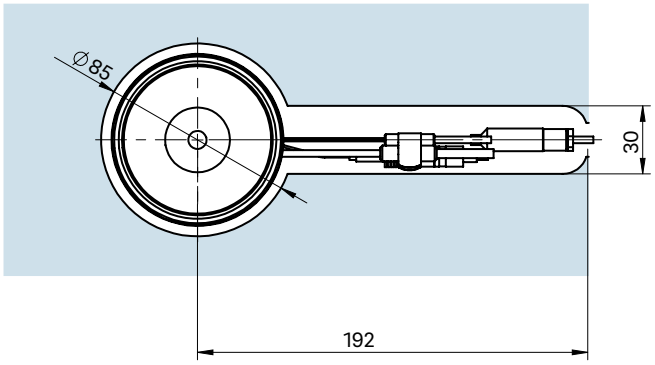


Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



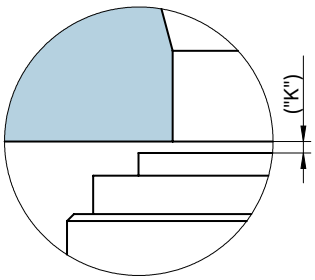


Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections



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

Detail "Z"



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)	0.04	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

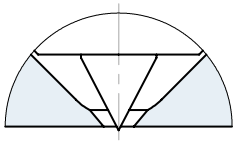
■ *available* □ *on request*

NOTE

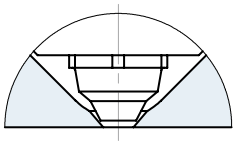
Power connector CMT and thermocouple connector CMLK are to be ordered separately.

WEBCODE
21110

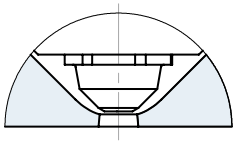
SHT – open nozzle with tip
version "Tip"
Antechamber version A



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

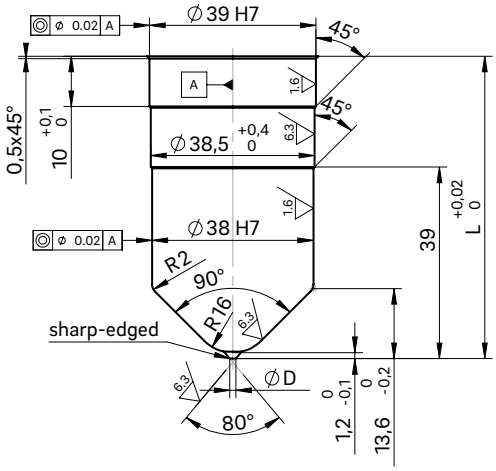


DHT – open nozzle with straight outlet
version A
Antechamber version C

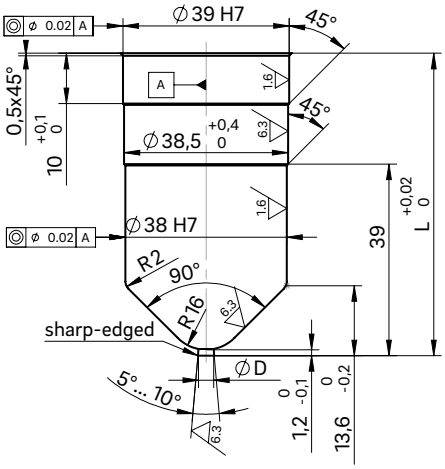


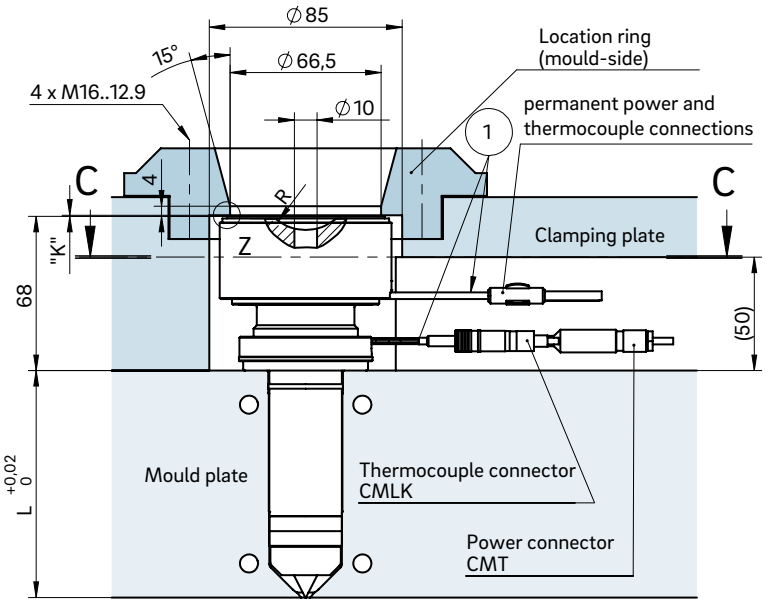
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

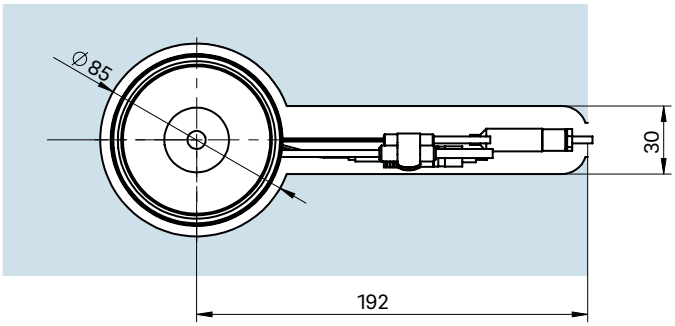


Open nozzle with straight outlet
Nozzle type version A
Antechamber version C





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

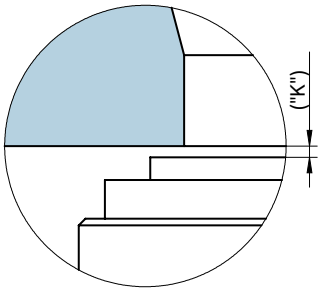


① Power and thermocouple plug connections in this area can be bent once; minimum radius: R8

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)	0.04	0.08	0.12	0.16	0.20	0.25

Detail "Z"



Hot runner nozzle type 8SMT/8DMT with AMJ8

Open single nozzle with conventional heating element
and heated adapter AMJ8

TECHNICAL DATA

8SMT/8DMT

Melt channel Ød	7.5 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
■	■	■	■	■	■	□

AMJ8

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

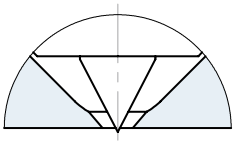
■ *available* □ *on request*

NOTE

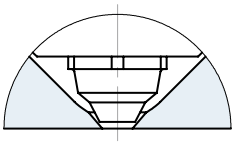
Fixed power and thermocouple connection.

WEBCODE
21120

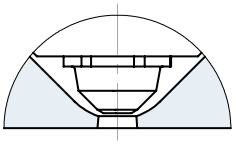
SMT – open nozzle with tip
version "Tip"
Antechamber version A



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

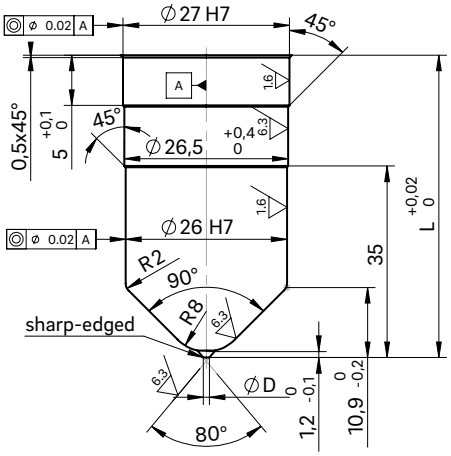


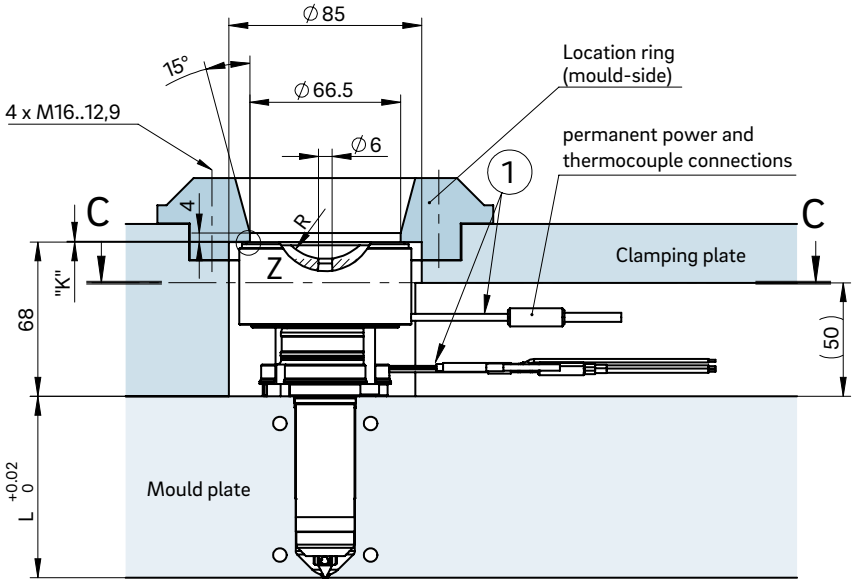
DMT – open nozzle with straight outlet
version A
Antechamber version C



INSTALLATION

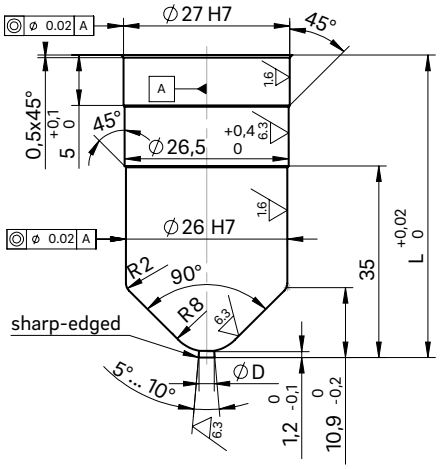
Open nozzle with tip
Nozzle type version C
Antechamber version A

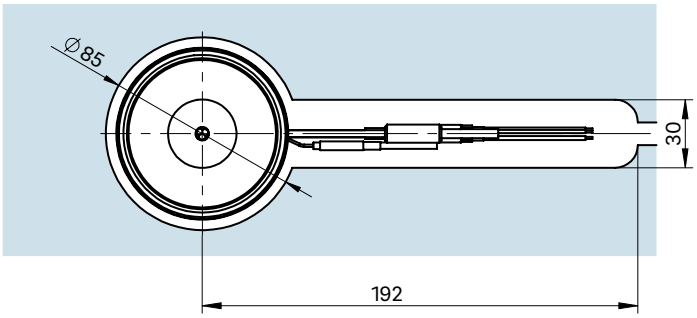




Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections

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



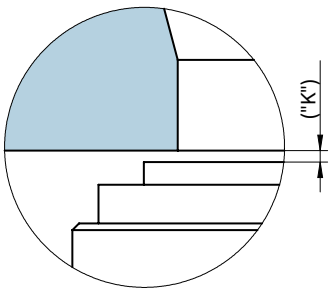


① Power and thermocouple plug connections in this area can be bent once; minimum radius: R8

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)	0.04	0.08	0.12	0.16	0.20	0.25

Detail "Z"

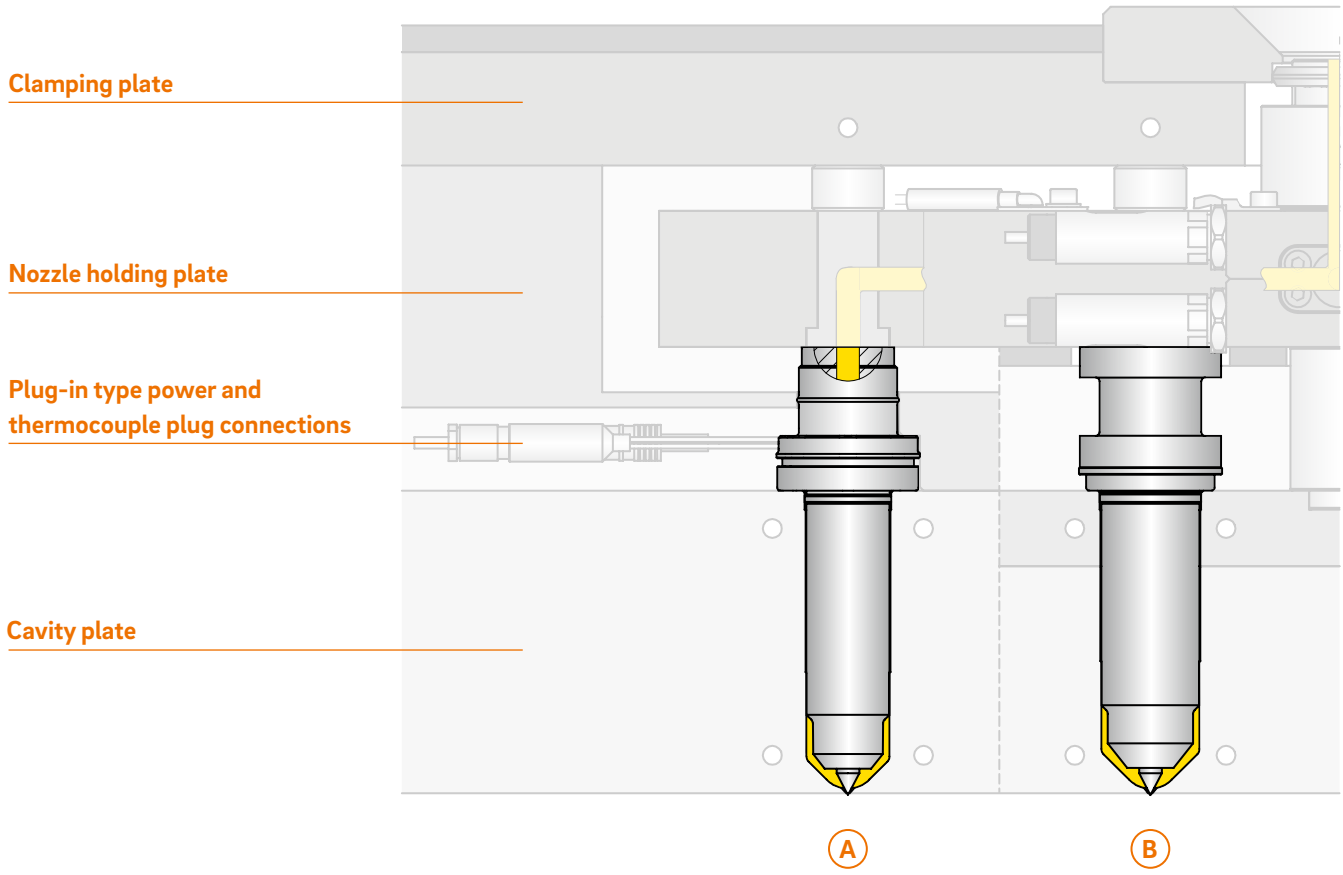


2.2 System hot runner nozzles

SYSTEM HOT RUNNER NOZZLES – OPEN SYSTEM

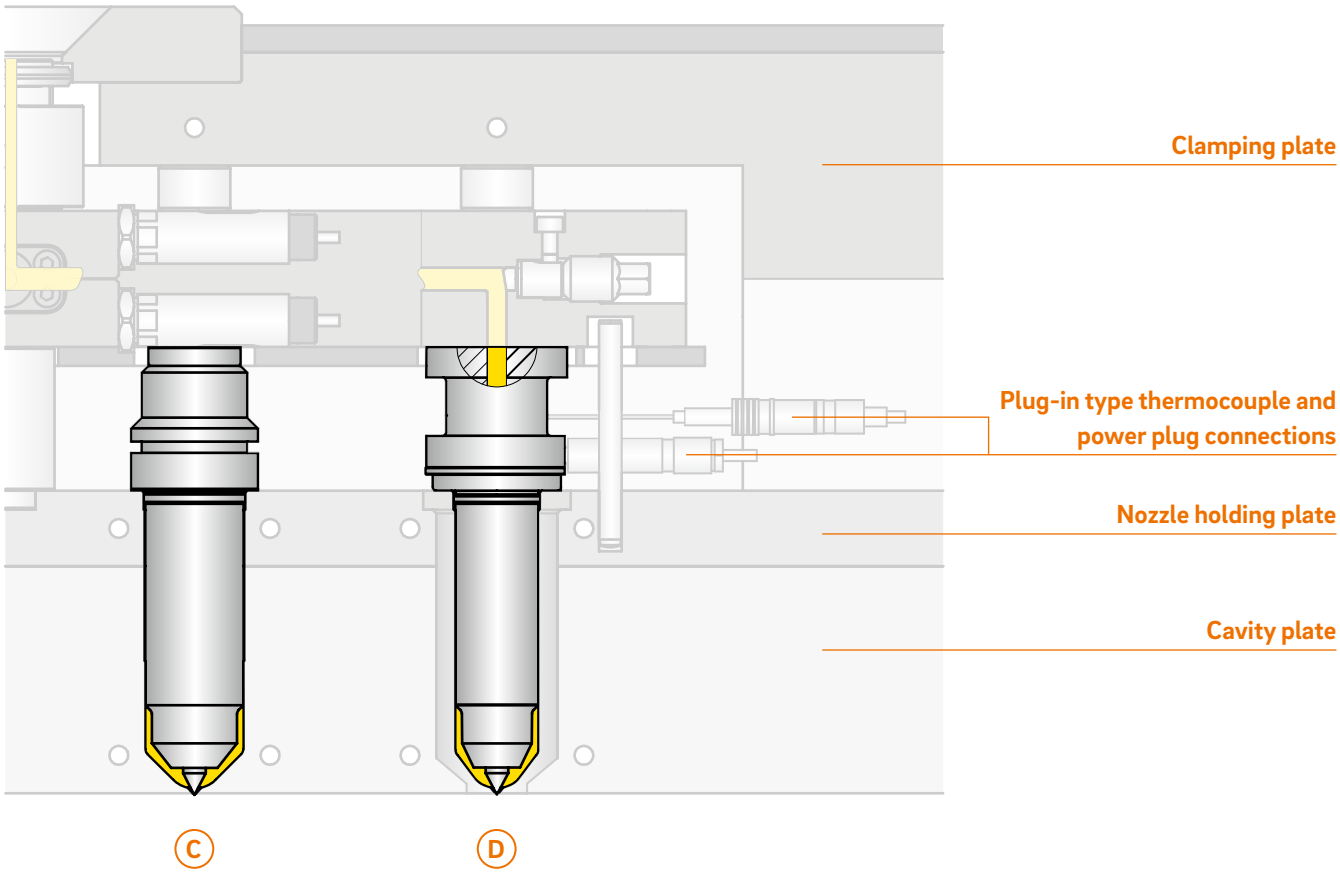
Overview of overall design

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!

WEBCODE
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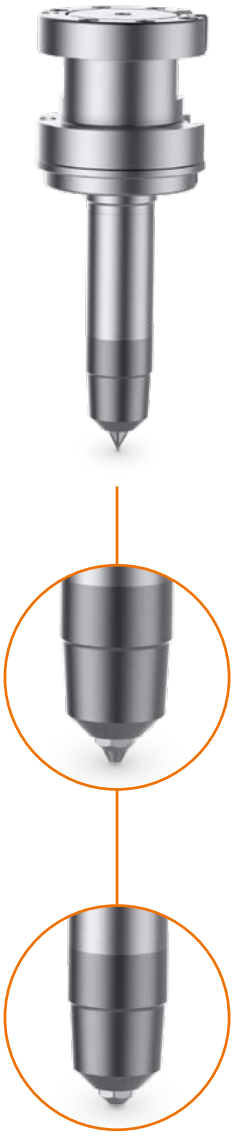
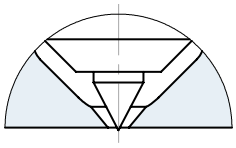
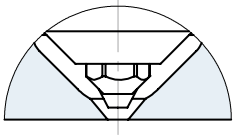


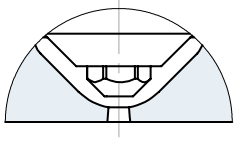
SHF – open nozzle with tip
version "Tip"
Antechamber version A



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

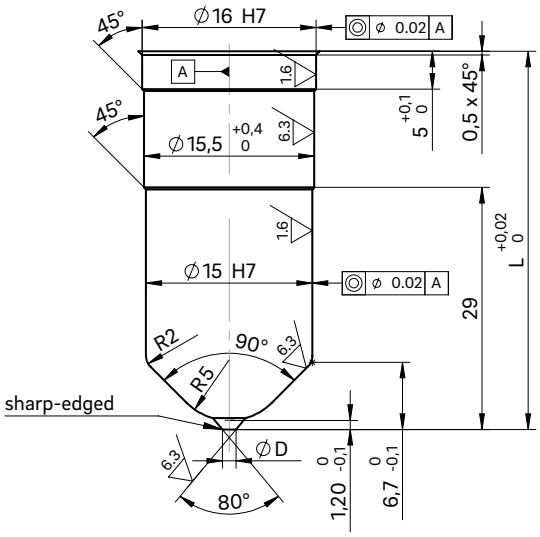


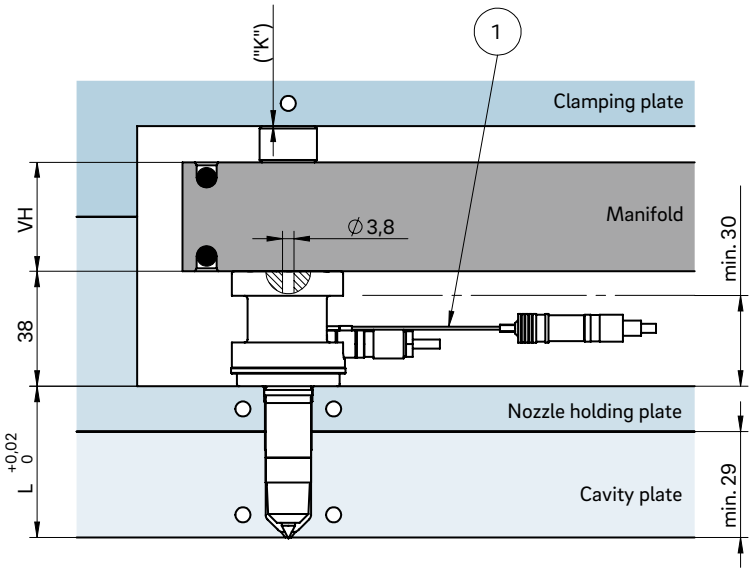
DHF – open nozzle with straight outlet
version A
Antechamber version C



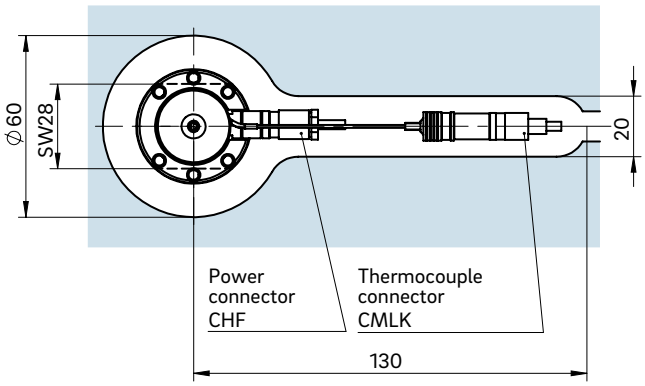
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

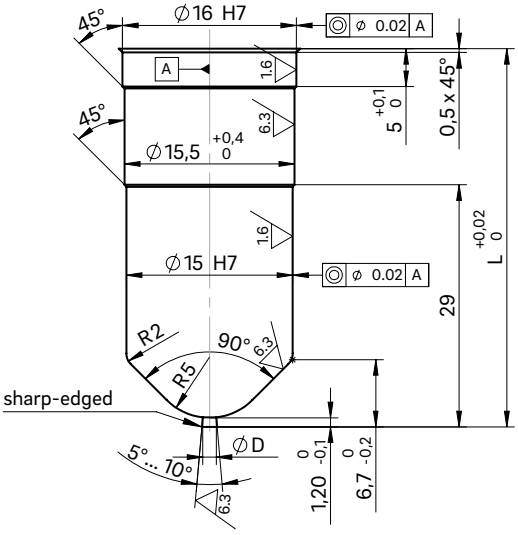




Example cutout for nozzle head, power and thermocouple plug connections



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

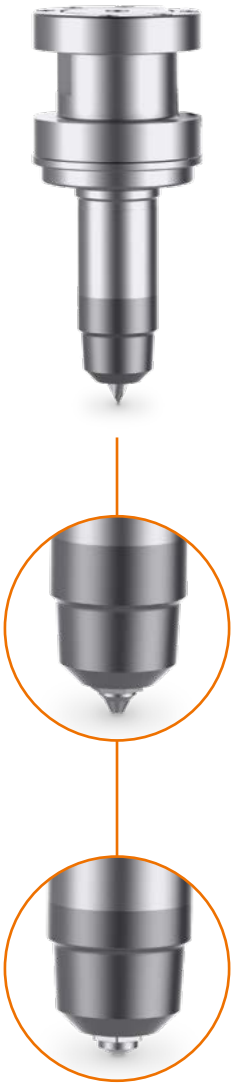
■ *available* □ *on request*

NOTE

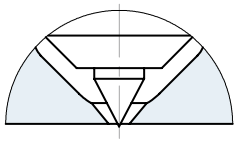
Power connector CHF and thermocouple connector CMLK are to be ordered separately.

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

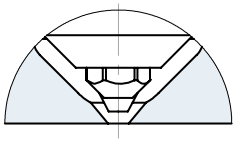
WEBCODE
22020



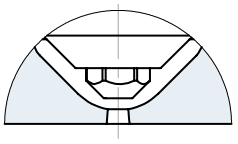
SHF – open nozzle with tip
"Tip" version
Antechamber version A

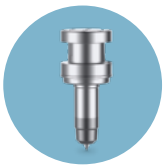


DHF – open nozzle with straight outlet
version C
Antechamber version A



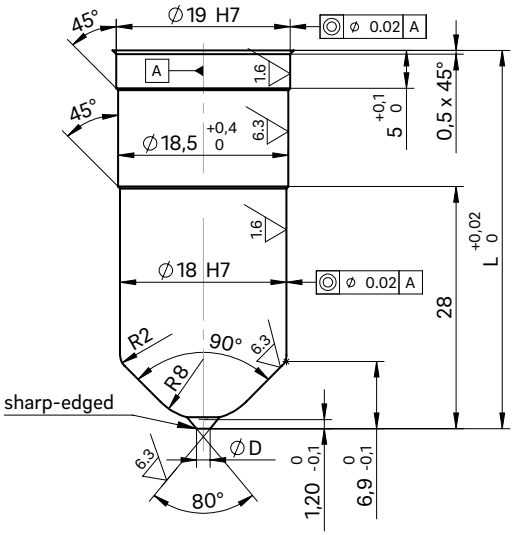
DHF – open nozzle with straight outlet
version A
Antechamber version C

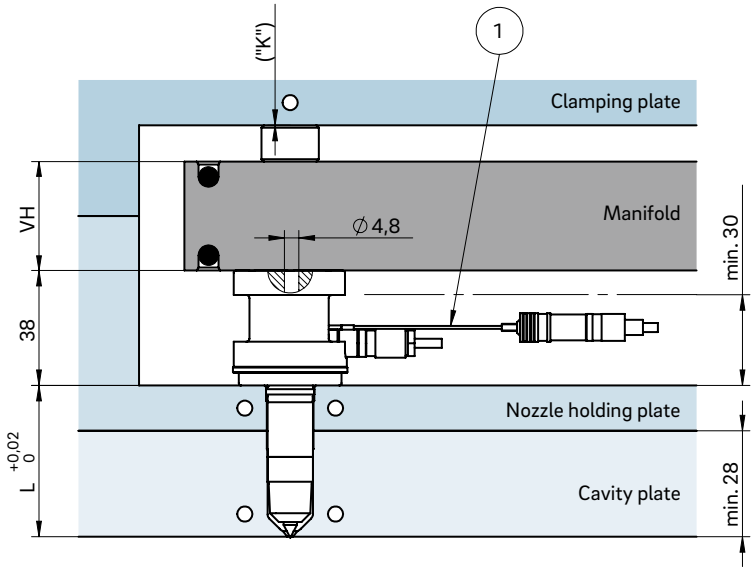




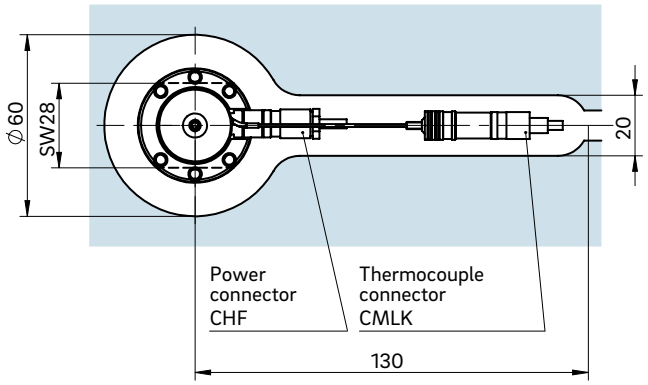
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

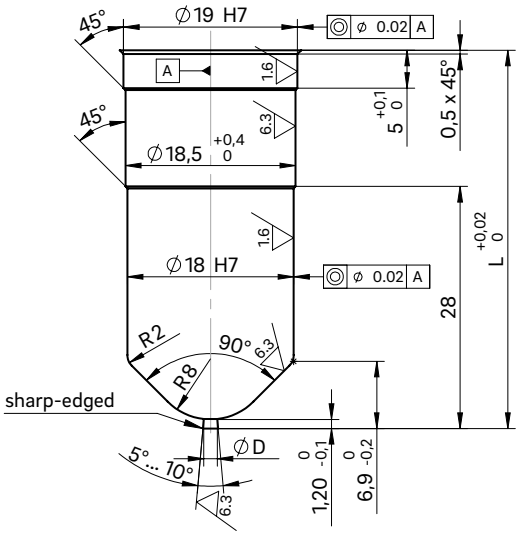




Example cutout for nozzle head, power and thermocouple plug connections



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!

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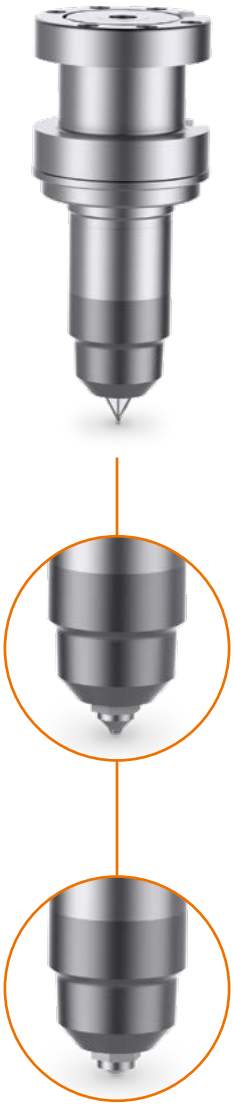
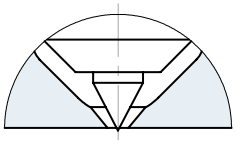
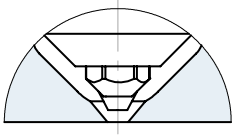


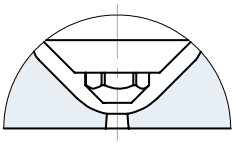
SHF – open nozzle with tip
version "Tip"
Antechamber version A

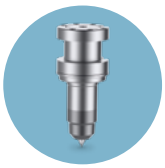


DHF – open nozzle with straight outlet
version C
Antechamber version A



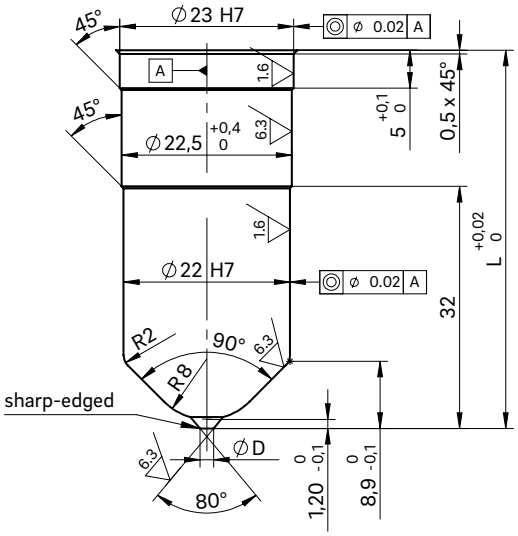
DHF – open nozzle with straight outlet
version A
Antechamber version C



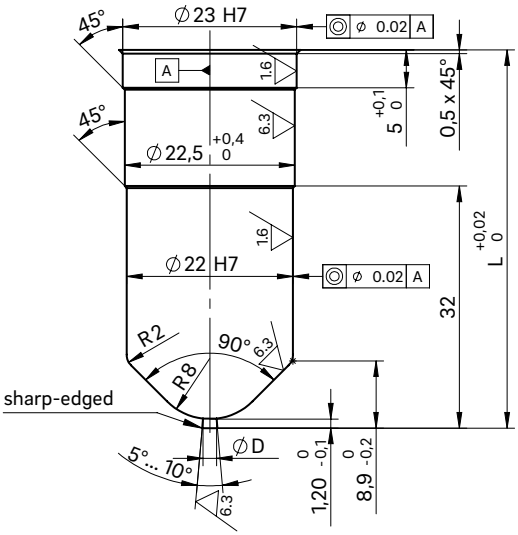


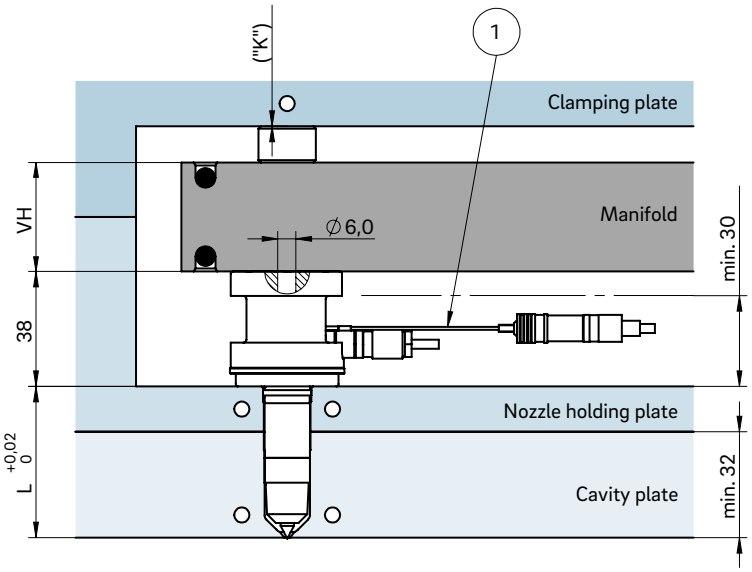
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

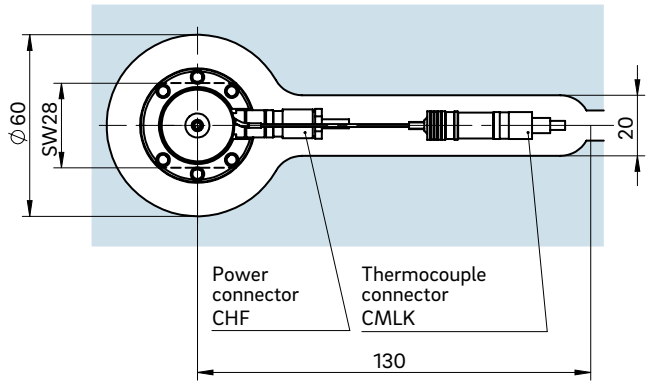


Open nozzle with straight outlet
Nozzle type version A
Antechamber version C





Example cutout for nozzle head, power and thermocouple plug connections



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

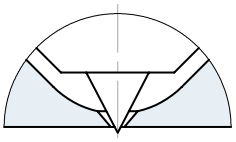
■ *available*

NOTE

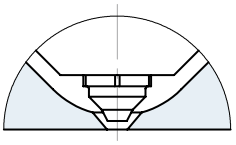
Power connector CMT and thermocouple connector CMLK are to be ordered separately.

WEBCODE
22040

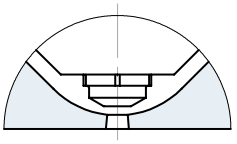
SHT – open nozzle with tip
version "Tip"
Antechamber version A

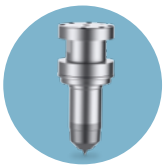


DHT – open nozzle with straight outlet
version C
Antechamber version A



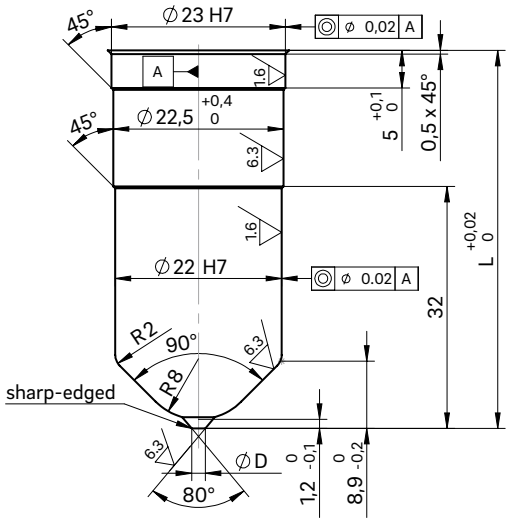
DHT – open nozzle with straight outlet
version A
Antechamber version C

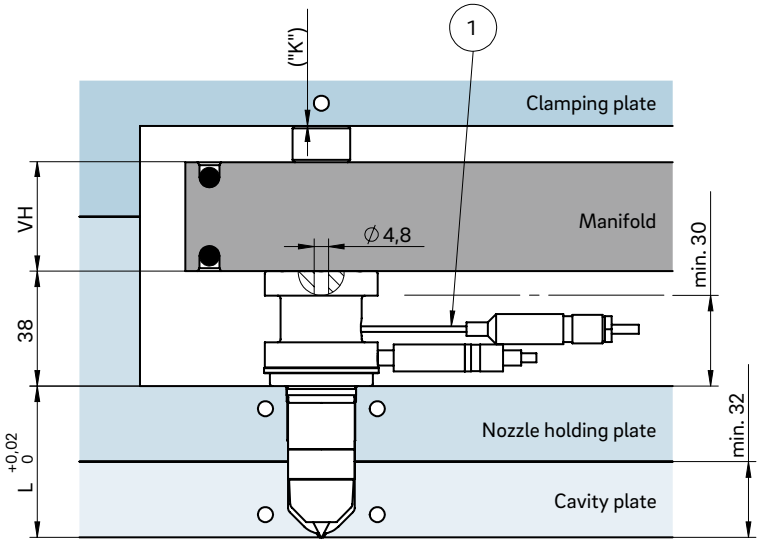




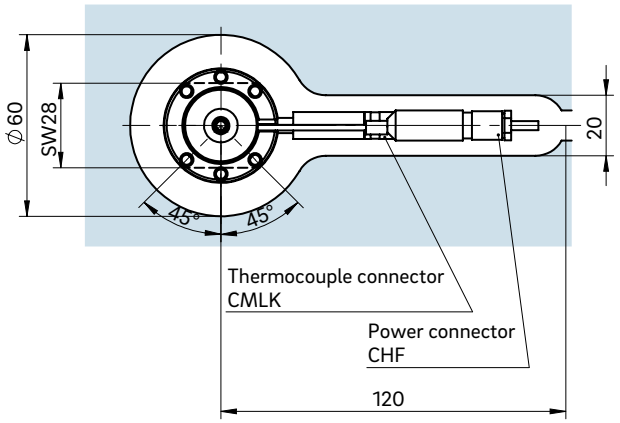
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

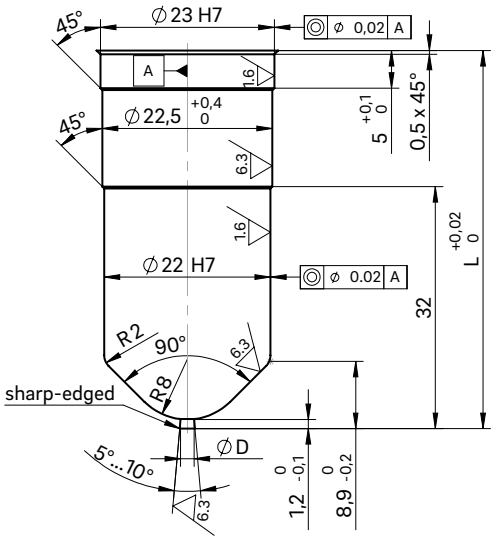




Example cutout for nozzle head, power and thermocouple plug connections



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



① Power 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

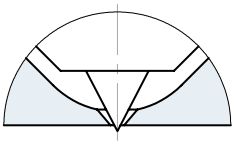
■ *available* □ *on request*

NOTE

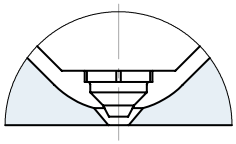
Power connector CMT and thermocouple connector CMLK are to be ordered separately.

WEBCODE
22050

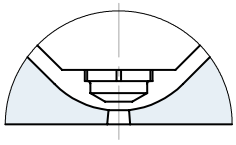
SHT – open nozzle with tip
version "Tip"
Antechamber version A

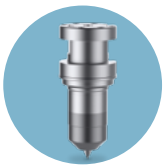


DHT – open nozzle with straight outlet
version C
Antechamber version A



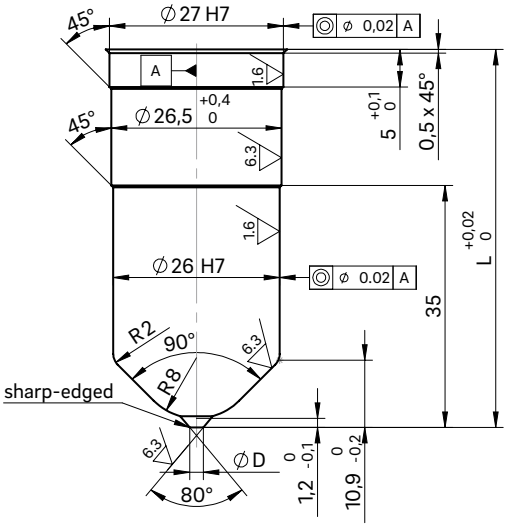
DHT – open nozzle with straight outlet
version A
Antechamber version C

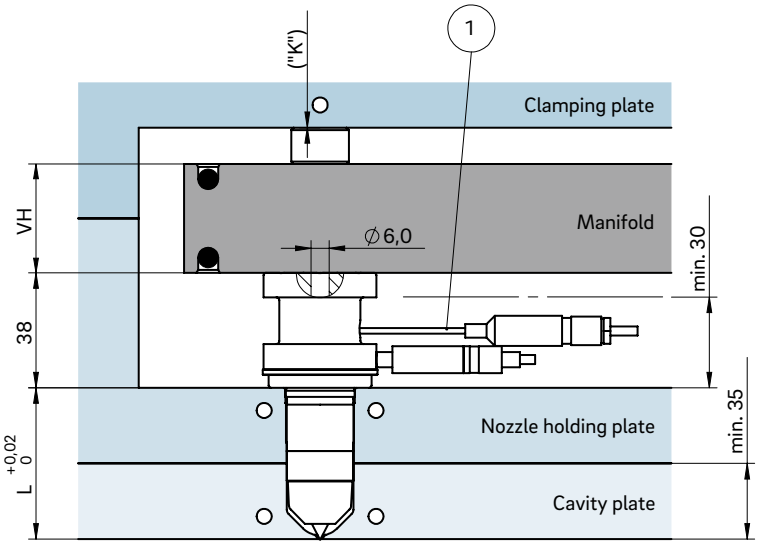




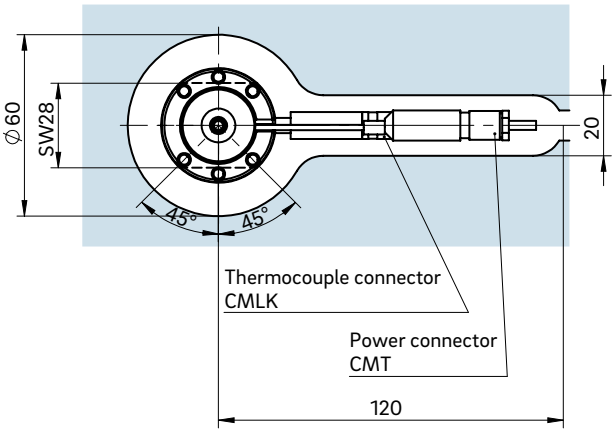
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

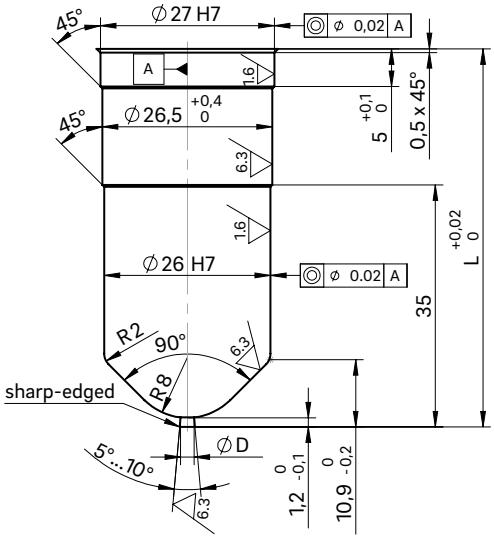




Example cutout for nozzle head, power and thermocouple plug connections



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



① Power 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

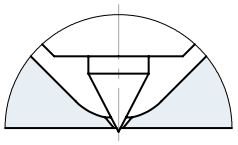
■ *available*

NOTE

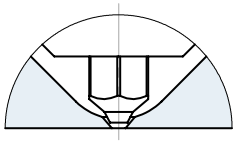
Power connector CHF and thermocouple connector CMLK are to be ordered separately.

WEBCODE
22055

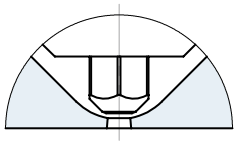
SHF – open nozzle with tip
version "Tip"
Antechamber version A



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

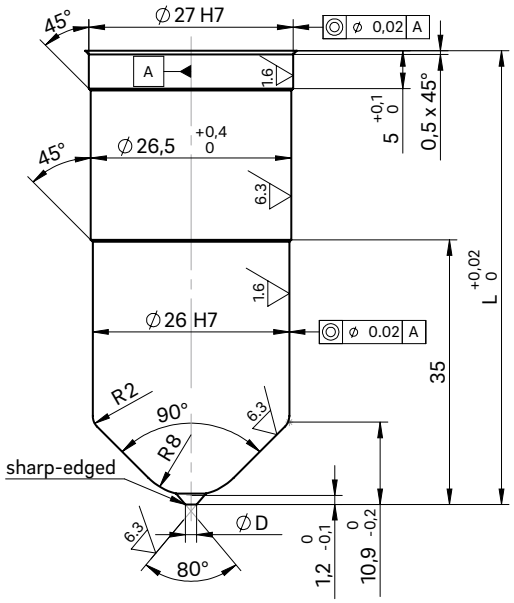


DHF – open nozzle with straight outlet
version A
Antechamber version C

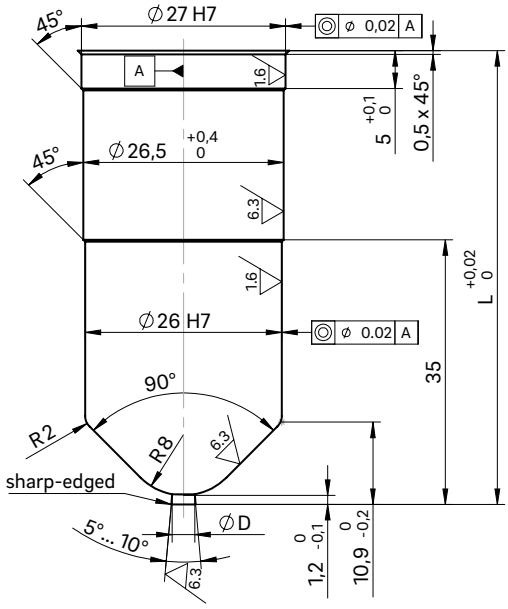


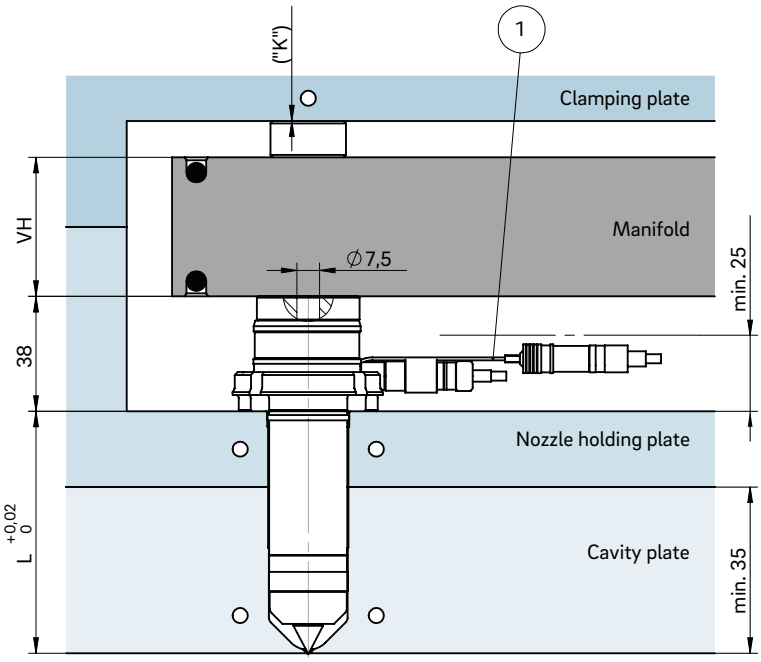
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

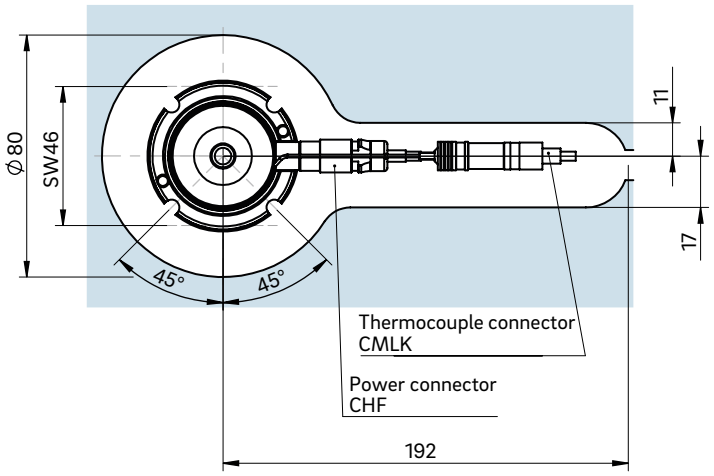


Open nozzle with straight outlet
Nozzle type version A
Antechamber version C





Example cutout for nozzle head, power and thermocouple plug connections



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

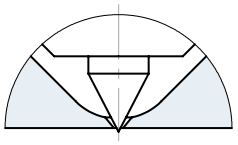
■ *available* □ *on request*

NOTE

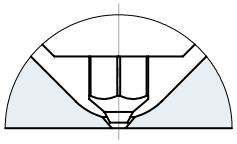
Power connector CMT and thermocouple connector CMLK are to be ordered separately.

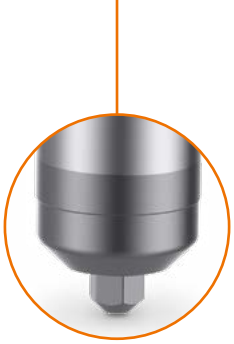
WEBCODE
22060

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

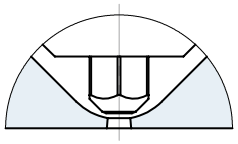


DHT – open nozzle with straight outlet
version C
Antechamber version A



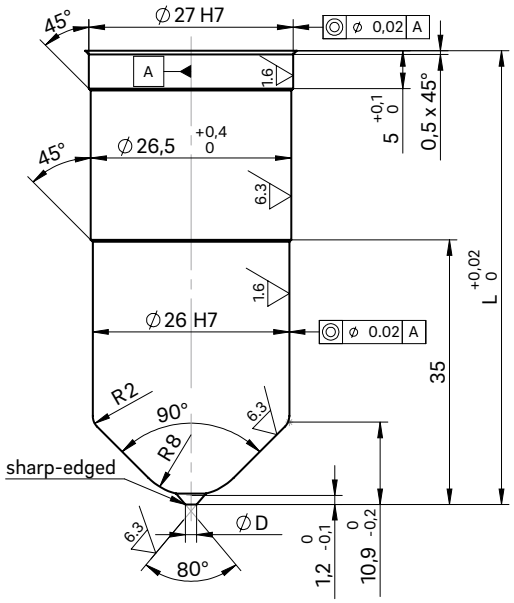


DHT – open nozzle with straight outlet
version A
Antechamber version C

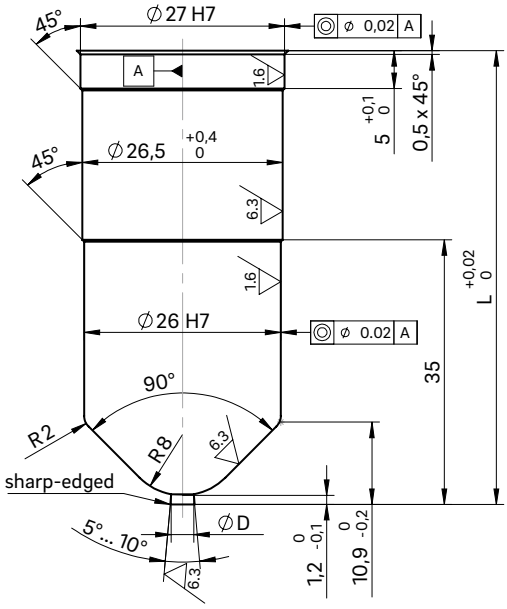


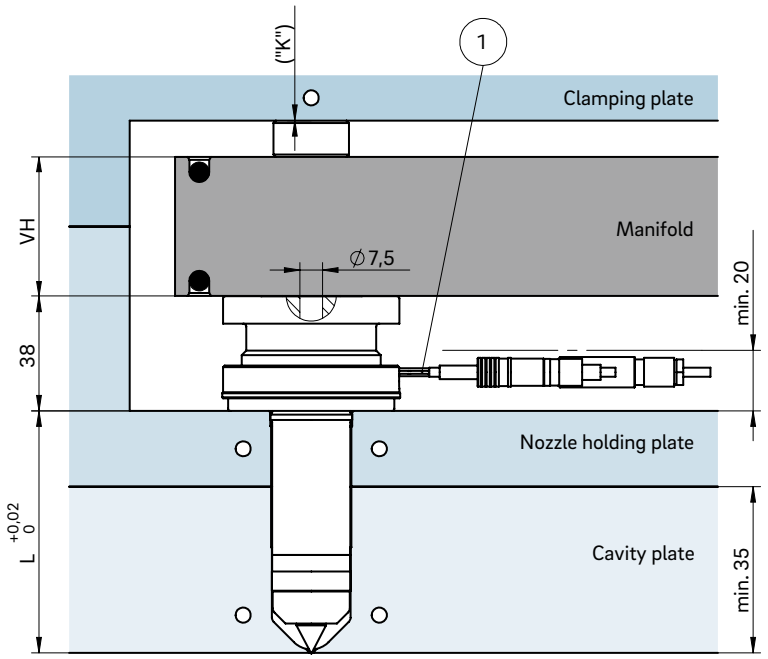
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

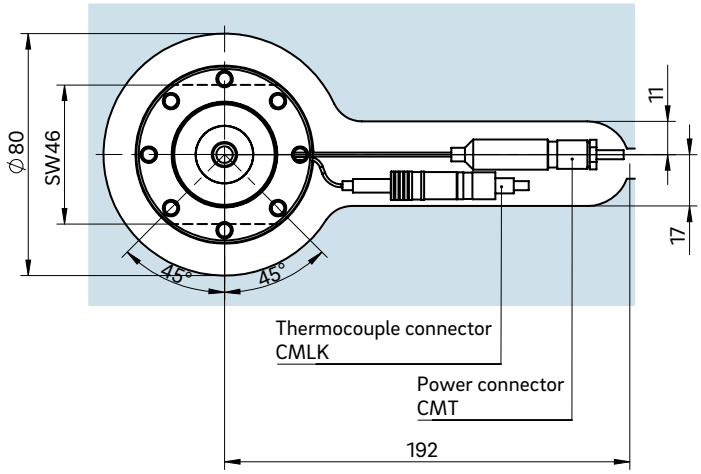


Open nozzle with straight outlet
Nozzle type version A
Antechamber version C





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 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

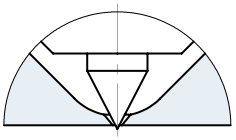
■ *available* □ *on request*

NOTE

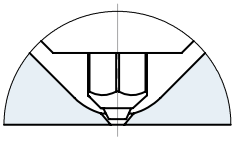
Power connector CMT and thermocouple connector CMLK are to be ordered separately.

WEBCODE
22070

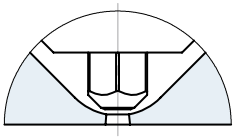
SHT – open nozzle with tip
version "Tip"
Antechamber version A



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

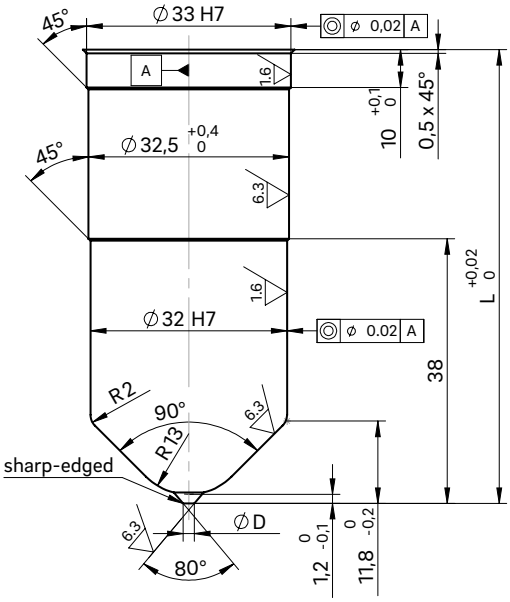


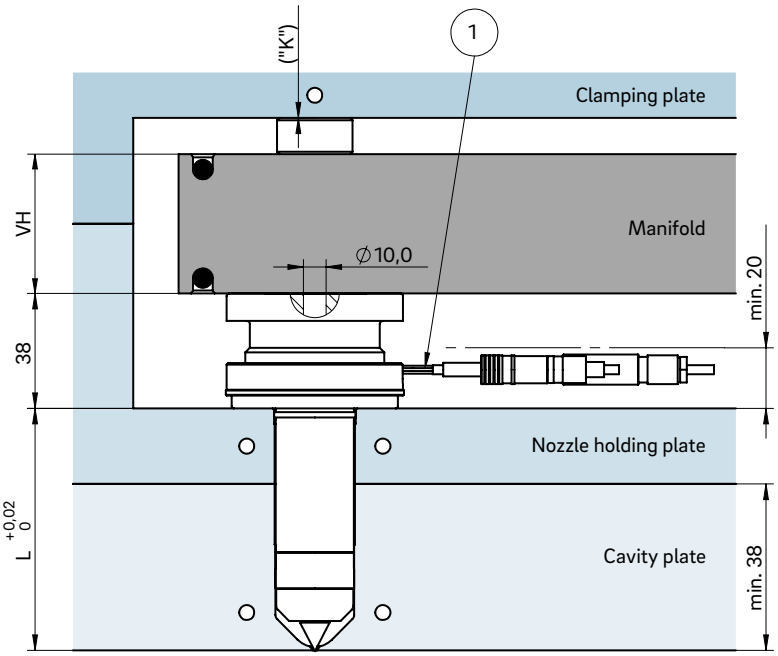
DHT – open nozzle with straight outlet
version A
Antechamber version C



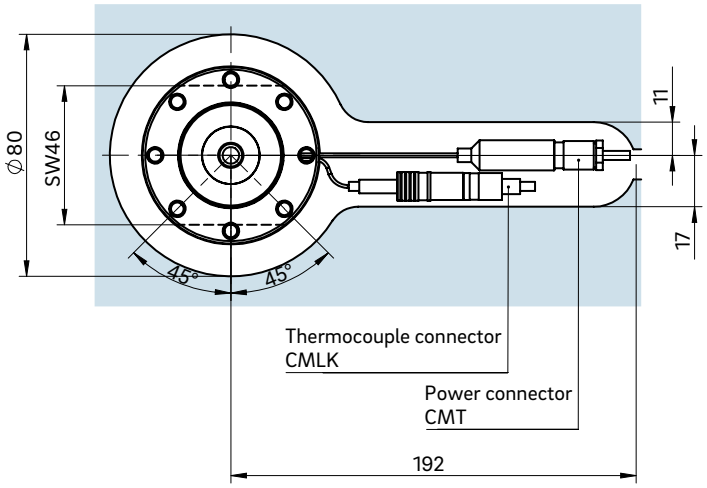
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

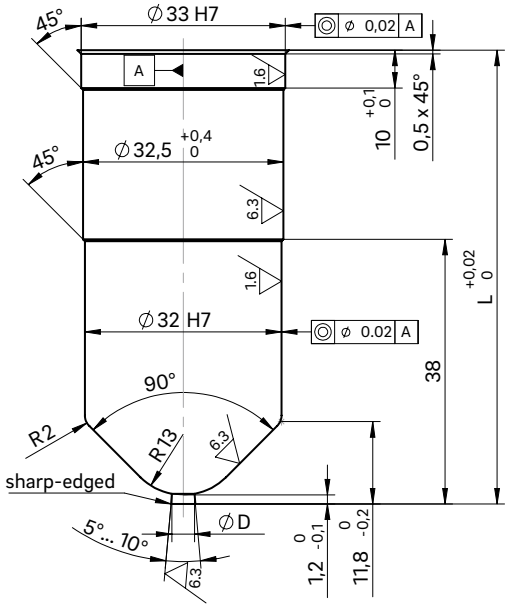




Example cutout for nozzle head, power and thermocouple plug connections



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 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!

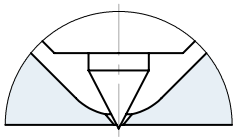
*Volts alternating current

■ *available* □ *on request*

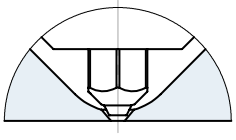
NOTE

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

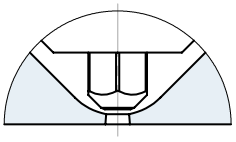
SHT – open nozzle with tip
version "Tip"
Antechamber version A



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



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



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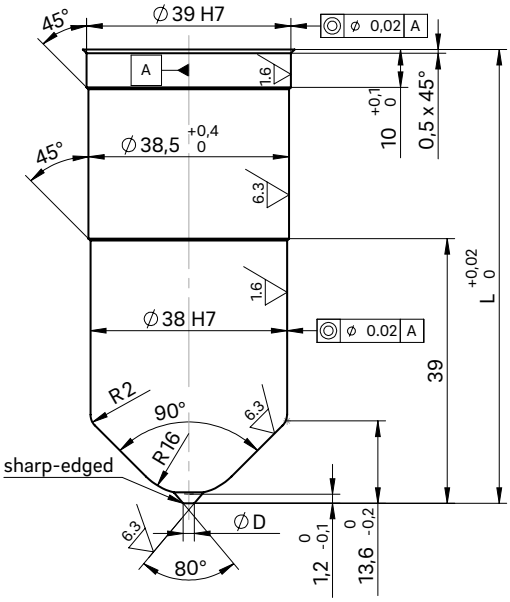
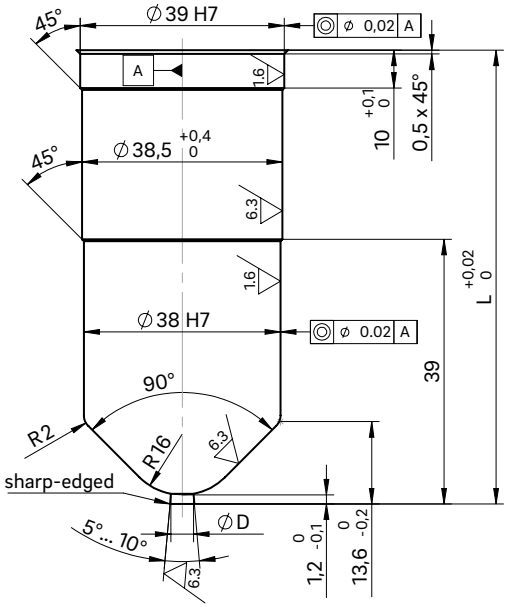
22080

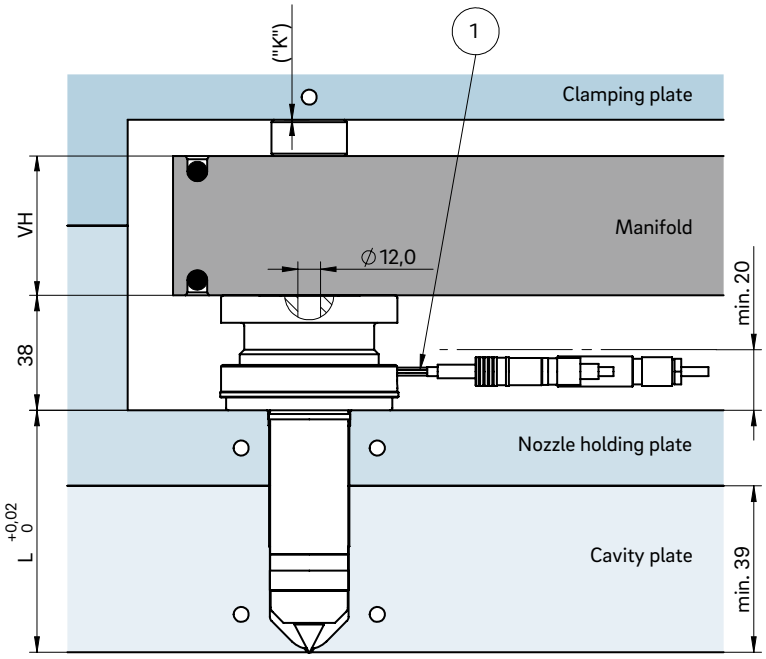
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

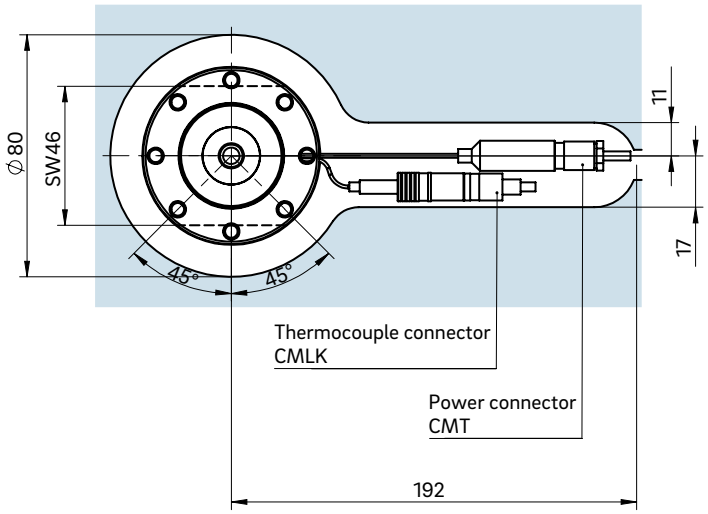


Open nozzle with straight outlet
Nozzle type version A
Antechamber version C





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 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}*

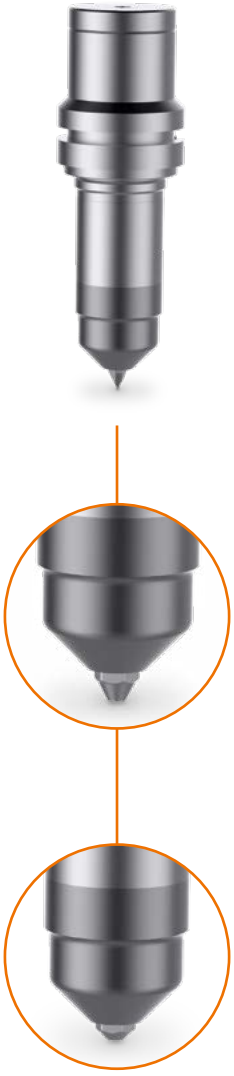
Nominal length of the nozzle (L) in mm

50	60	80	100
■	■	■	■

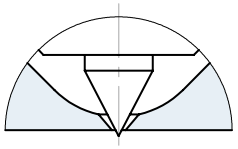
Contact us for other nozzle lengths!

*Volts alternating current

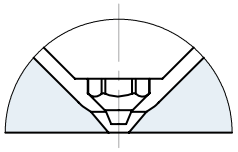
■ *available*



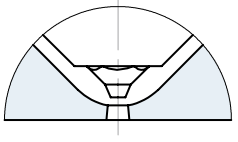
SMT – open nozzle with tip
version "Tip"
Antechamber version A



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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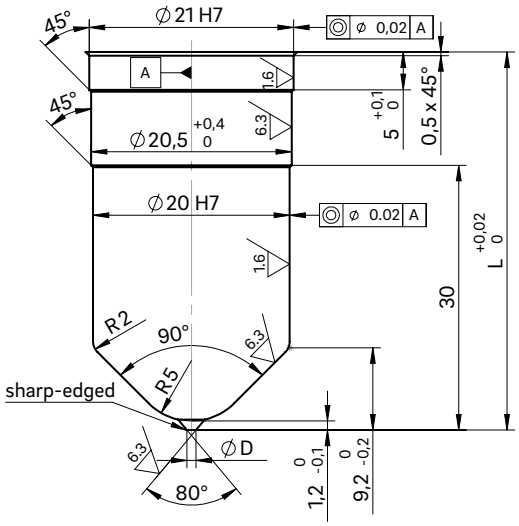
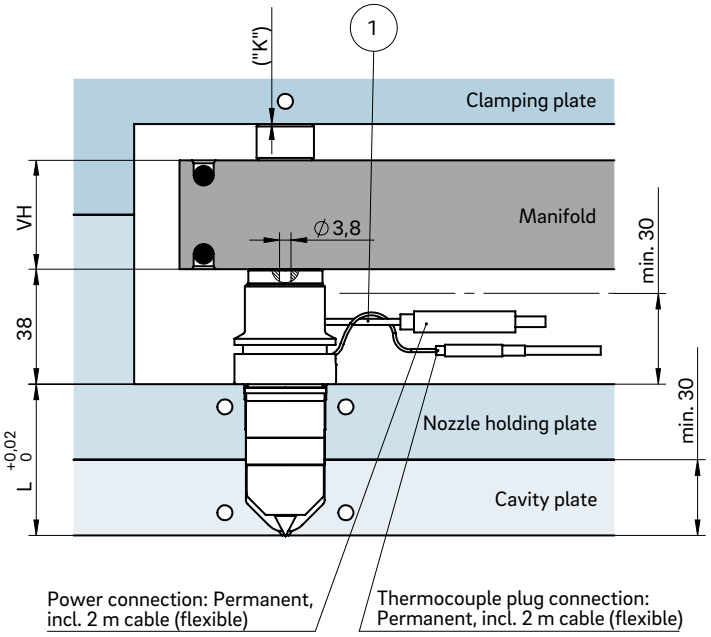
22090

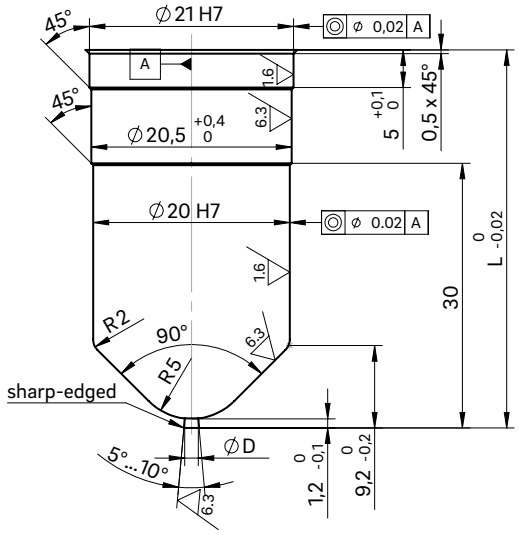
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

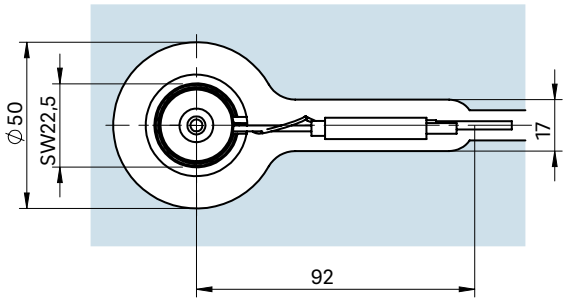




Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



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

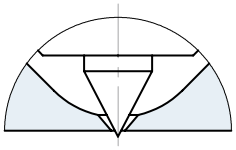
50	60	80	100	120	150
■	■	■	■	■	□

Contact us for other nozzle lengths!

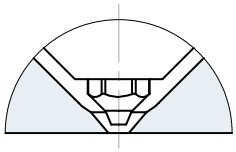
*Volts alternating current

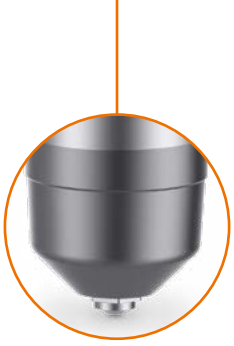
■ *available* □ *on request*

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

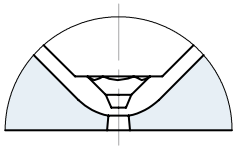


DMT – open nozzle with straight outlet
version C
Antechamber version A





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



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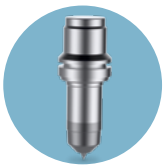
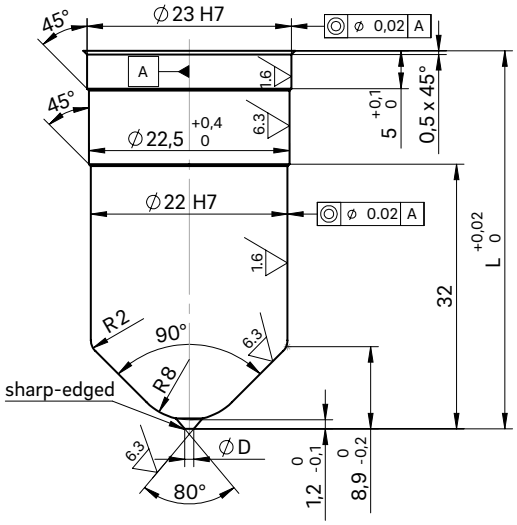
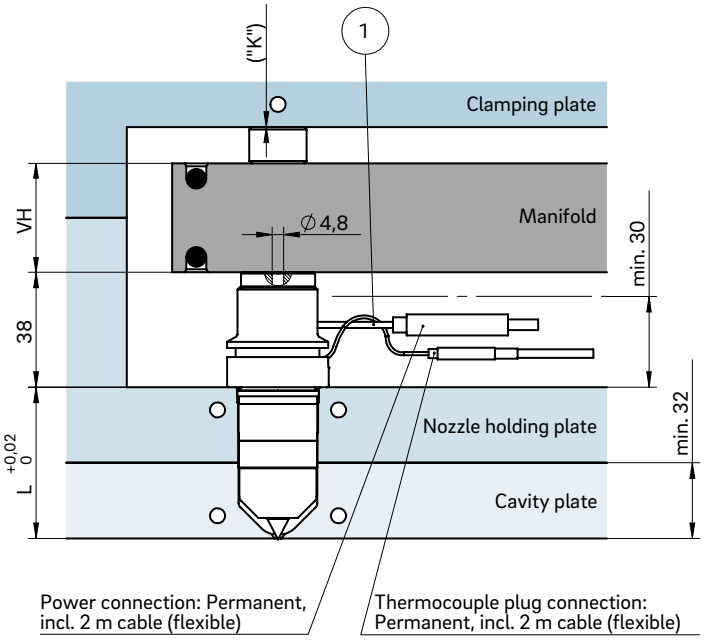


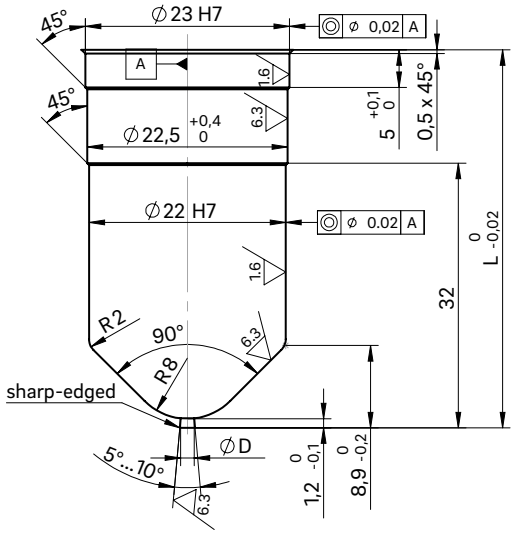
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

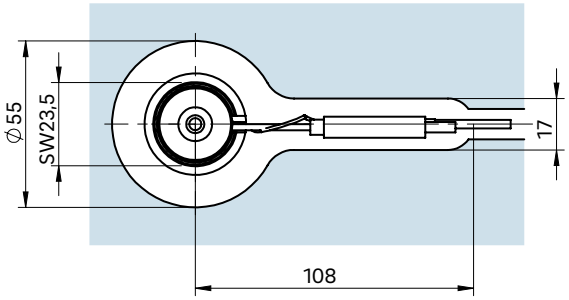




Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



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 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*

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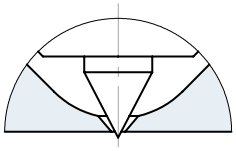
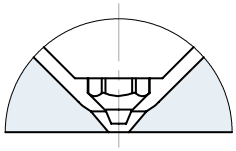
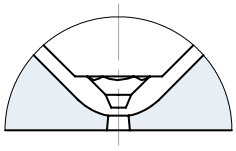
SMT – open nozzle with tip
version "Tip"
Antechamber version A



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

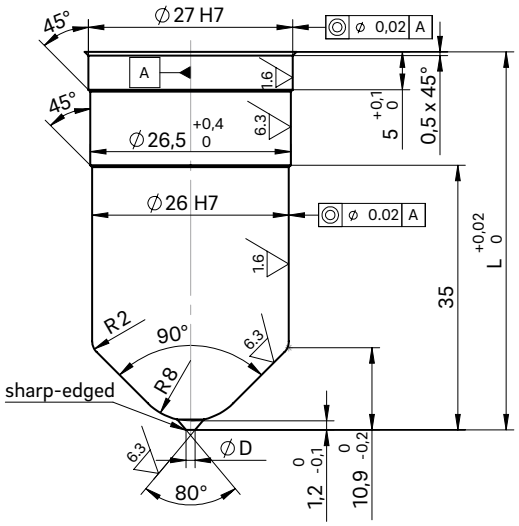


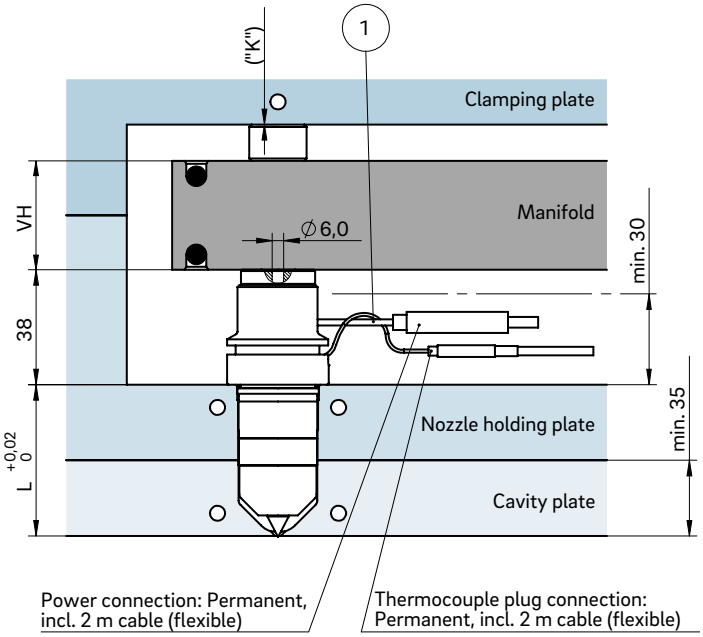
DMT – open nozzle with straight outlet
version A
Antechamber version C



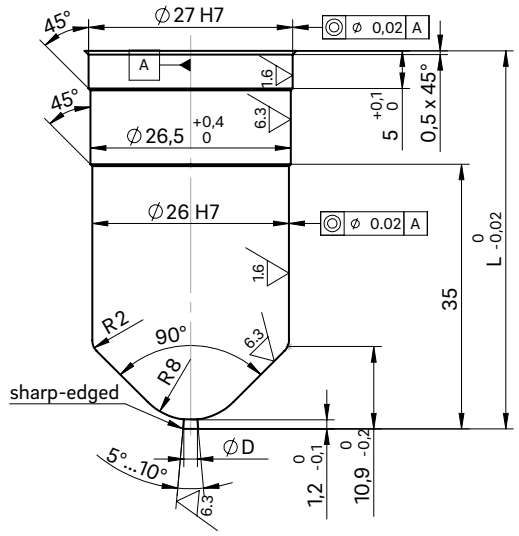
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

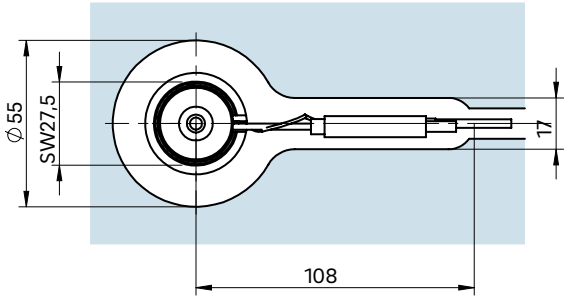




Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



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 8SMT/8DMT

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

TECHNICAL DATA

8SMT/8DMT

Melt channel Ød	7.5 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
■	■	■	■	■	■	□

Contact us for other nozzle lengths!

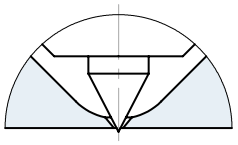
*Volts alternating current

■ *available* □ *on request*

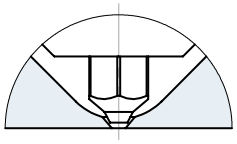
NOTE

Fixed power and thermocouple connection.

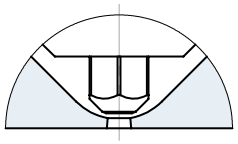
SMT – open nozzle with tip
version "Tip"
Antechamber version A



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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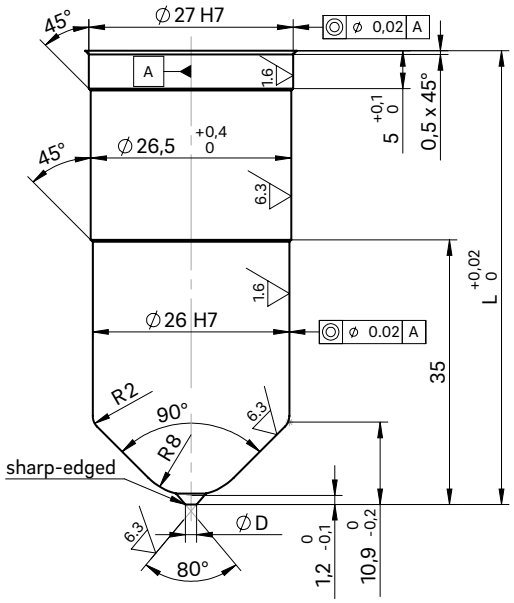
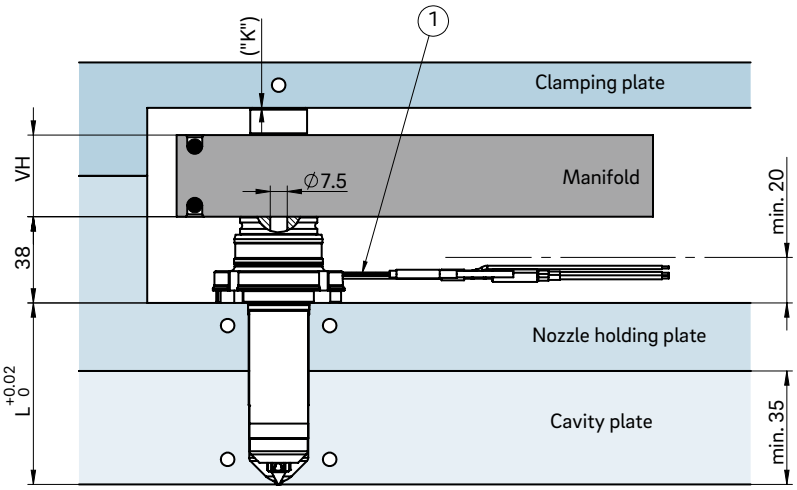
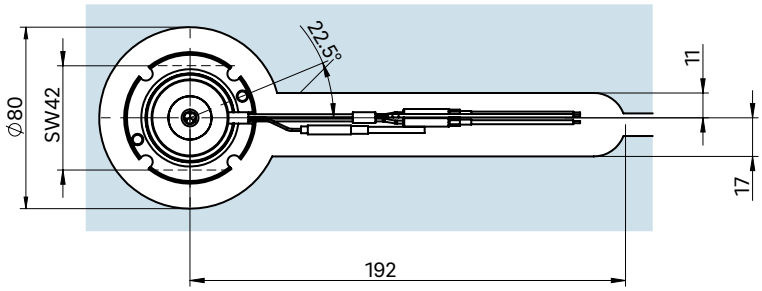
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

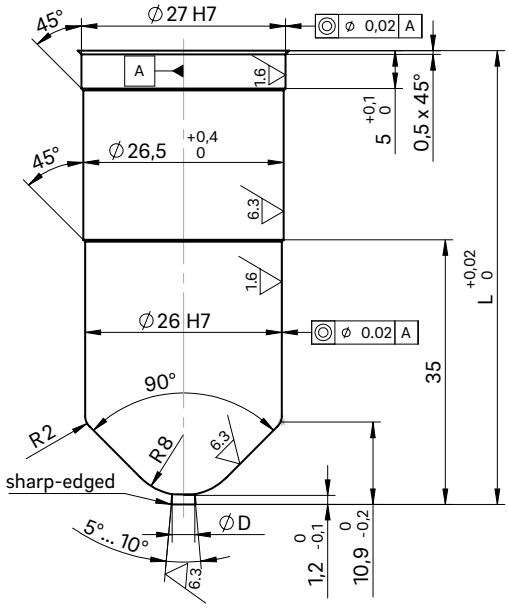




Example cutout for nozzle head, power and thermocouple plug connections



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 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

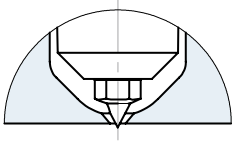
*Volts alternating current

NOTE

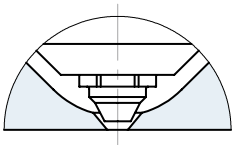
Can **also** be used laterally.

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

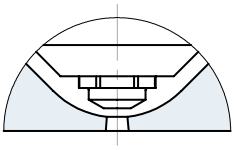
SMF – open nozzle with tip
version "Tip"
Antechamber version A



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



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



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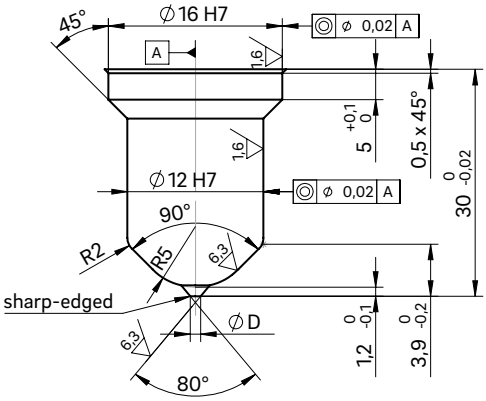
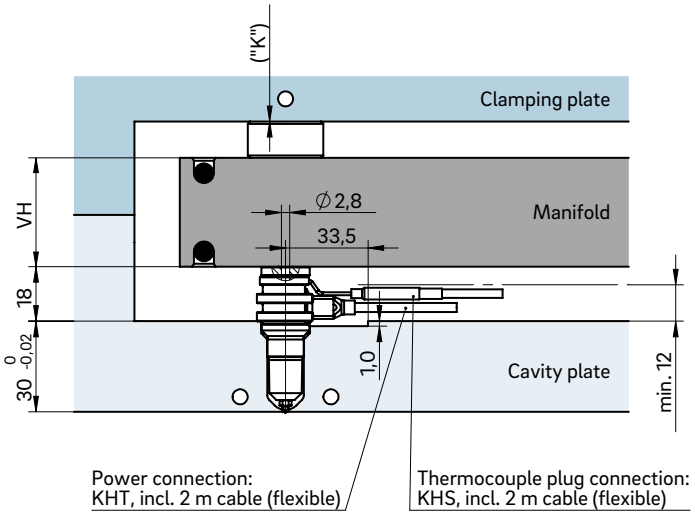
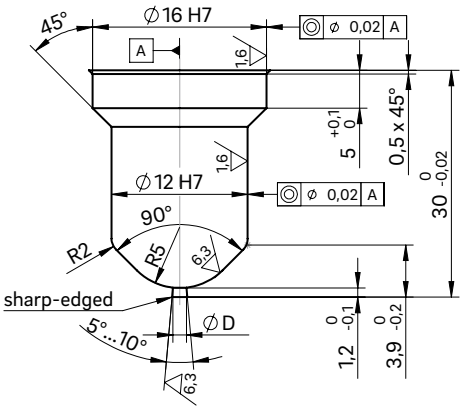
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

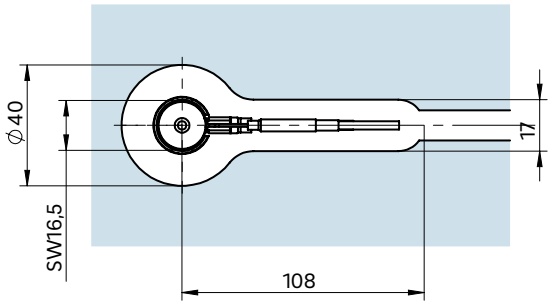




Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



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 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

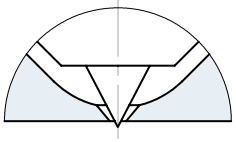
*Volts alternating current

NOTE

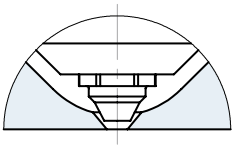
Can **also** be used laterally.

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

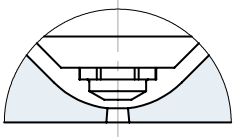
SMF – open nozzle with tip
version "Tip"
Antechamber version A



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



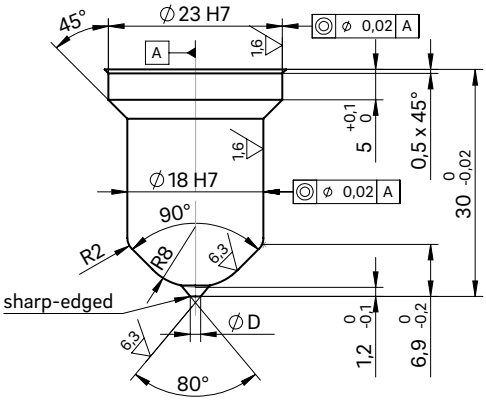
DMF – open nozzle with straight outlet
version A
Antechamber version C

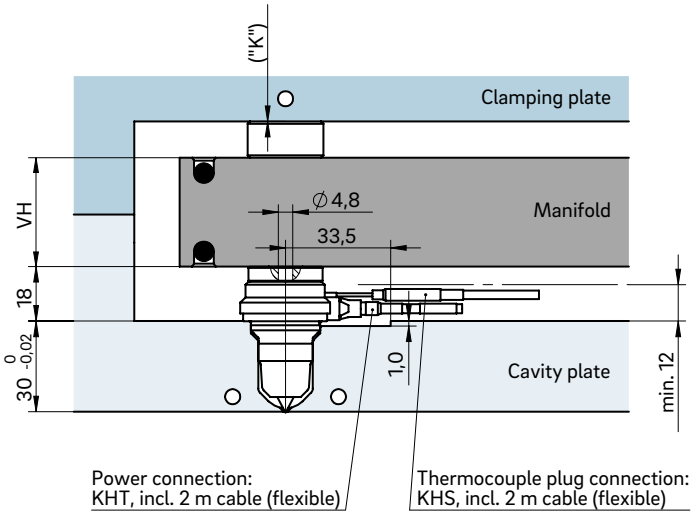


WEBCODE
22120

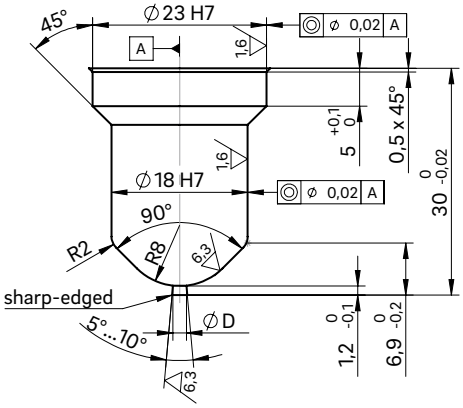
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

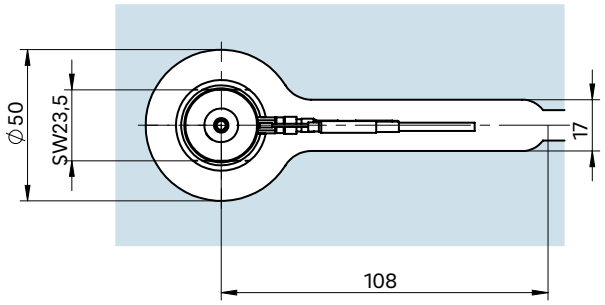




Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



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

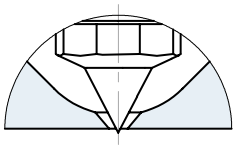
*Volts alternating current

NOTE

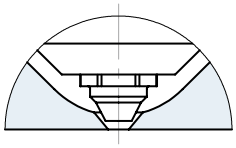
Can **also** be used laterally.

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

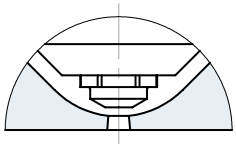
SMF – open nozzle with tip
version "Tip"
Antechamber version A



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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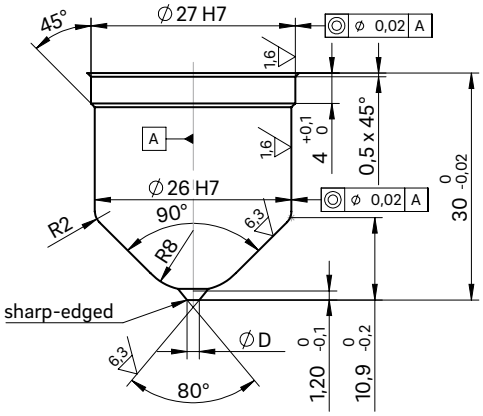
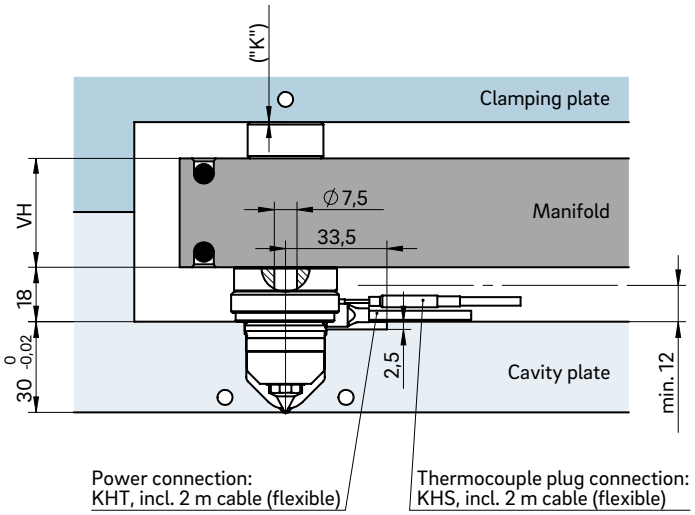
22130

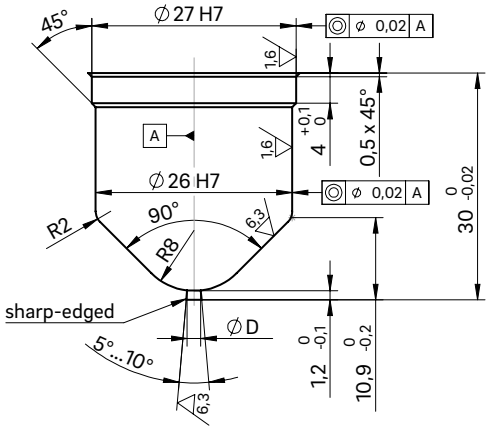
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

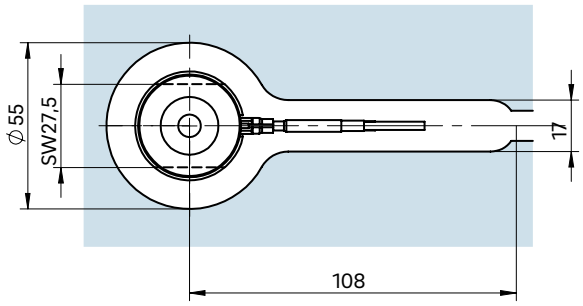




Open nozzle with straight outlet
Nozzle type version A
Antechamber version C



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 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}*

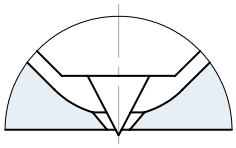
Nominal length of the nozzle (L): 30 mm

*Volts alternating current

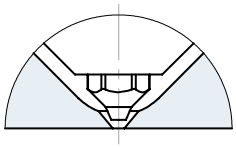
NOTE

Can **also** be used laterally.

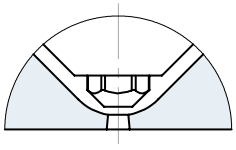
SMT – open nozzle with tip
version "Tip"
Antechamber version A



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



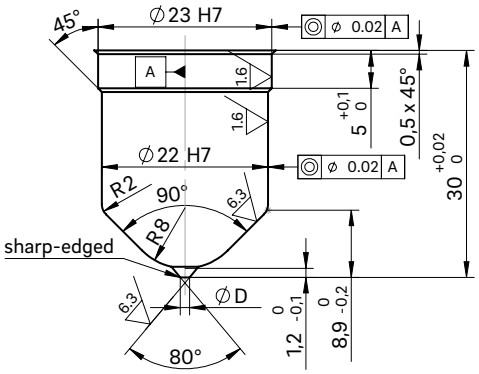
DMT – open nozzle with straight outlet
version A
Antechamber version C

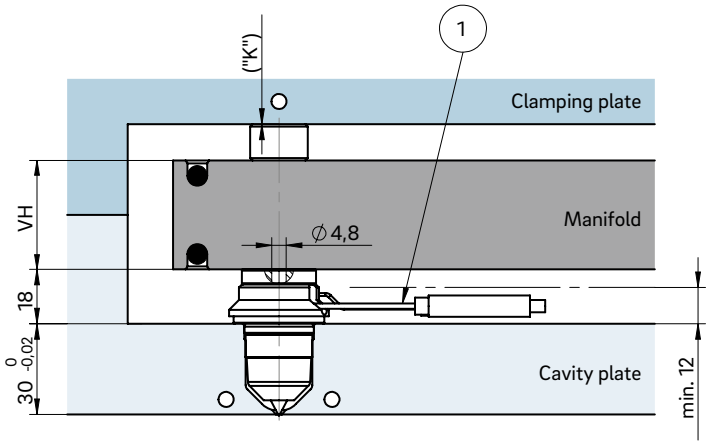


WEBCODE
22140

INSTALLATION

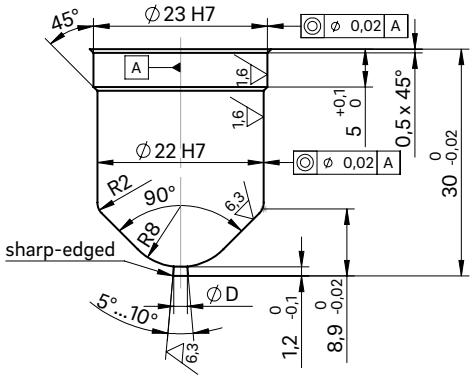
Open nozzle with tip
Nozzle type version C
Antechamber version A

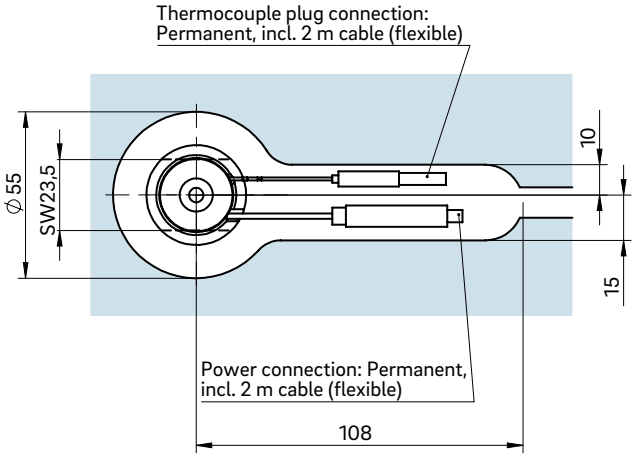




Example cutout for nozzle head, power and thermocouple plug connections

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!

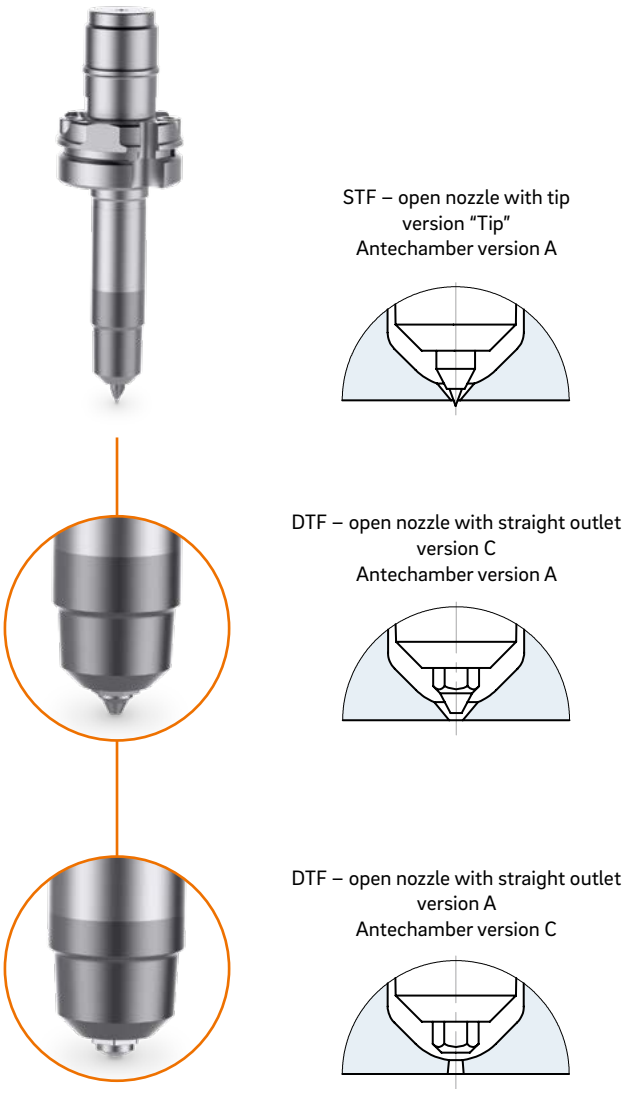
*Volts alternating current

■ *available*

NOTE

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

WEBCODE
22160



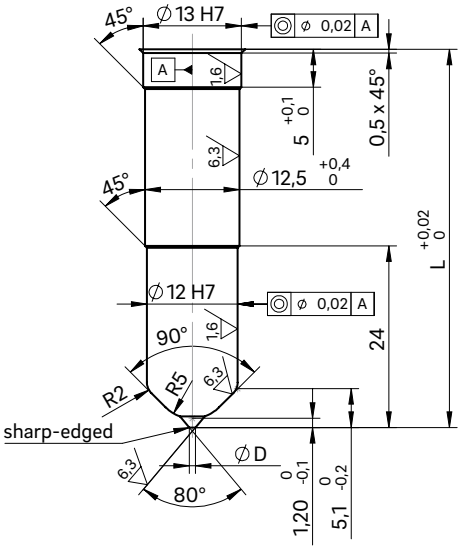
STF – open nozzle with tip
version "Tip"
Antechamber version A

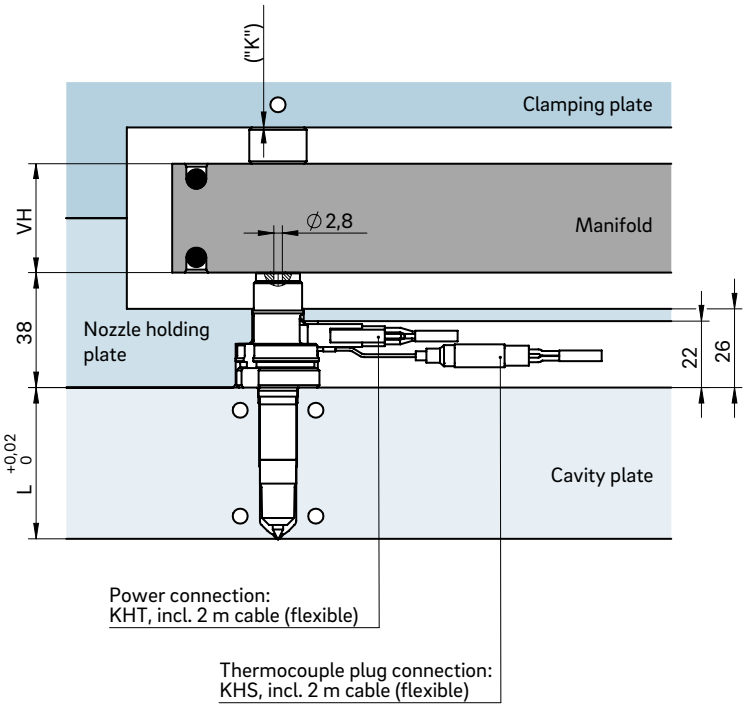
DTF – open nozzle with straight outlet
version C
Antechamber version A

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

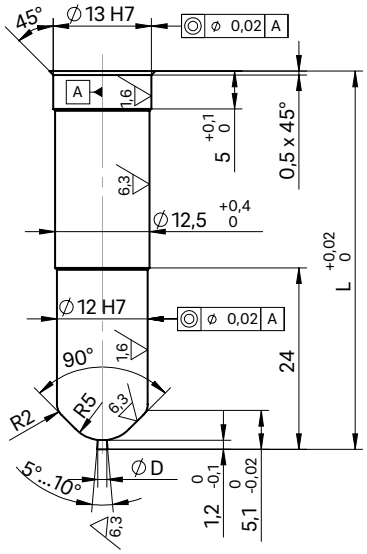
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

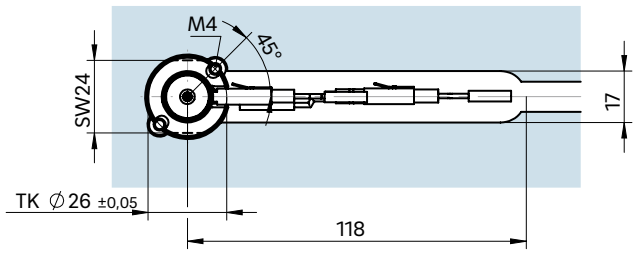


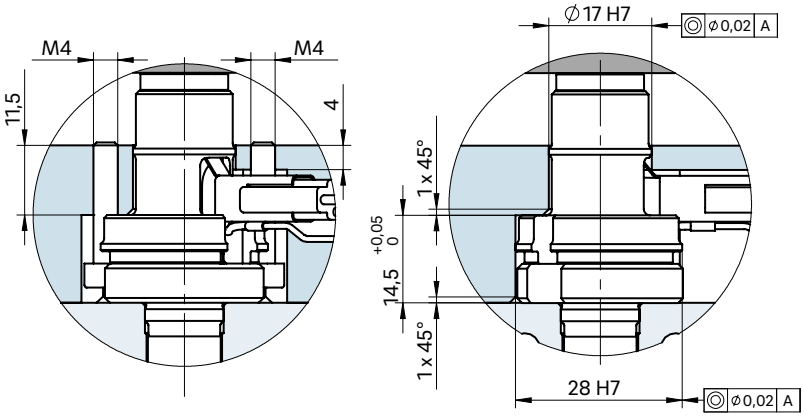


Open nozzle with tip
Nozzle type version C
Antechamber version A



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!

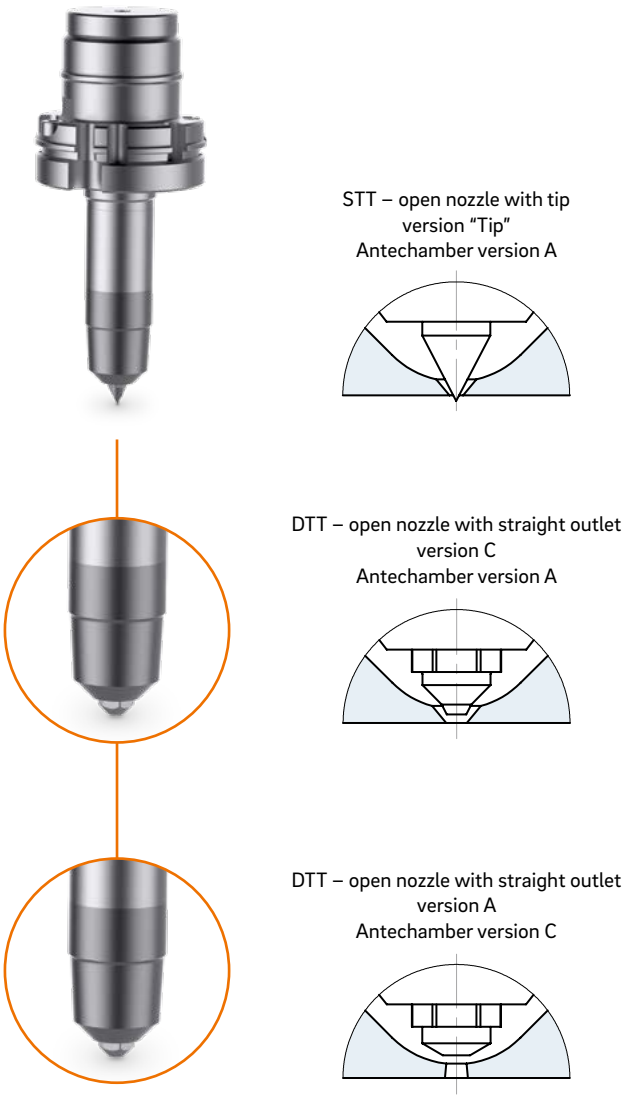
*Volts alternating current

■ *available*

NOTE

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

WEBCODE
22180



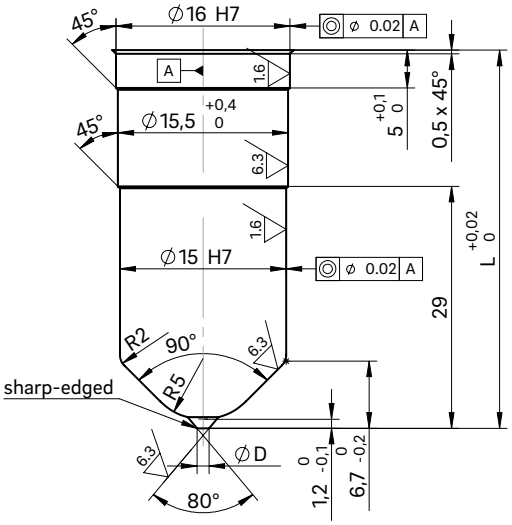
STT – open nozzle with tip
version "Tip"
Antechamber version A

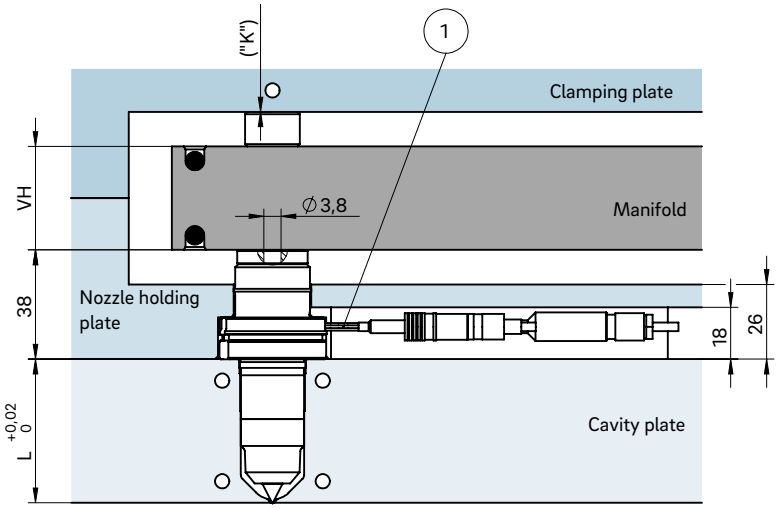
DTT – open nozzle with straight outlet
version C
Antechamber version A

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

INSTALLATION

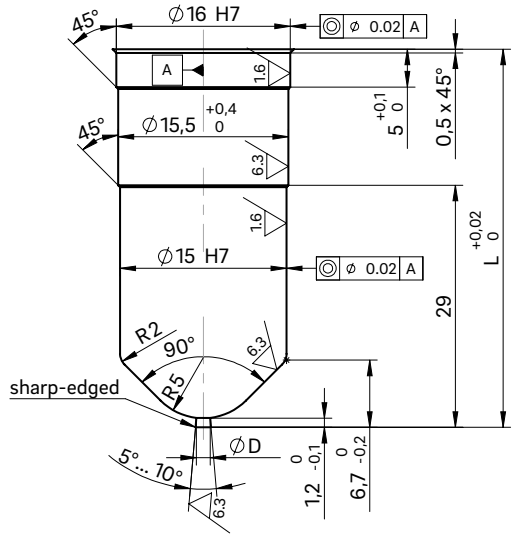
Open nozzle with tip
Nozzle type version C
Antechamber version A

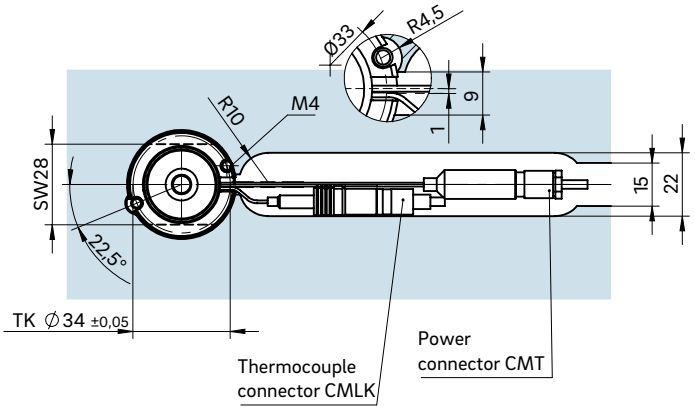


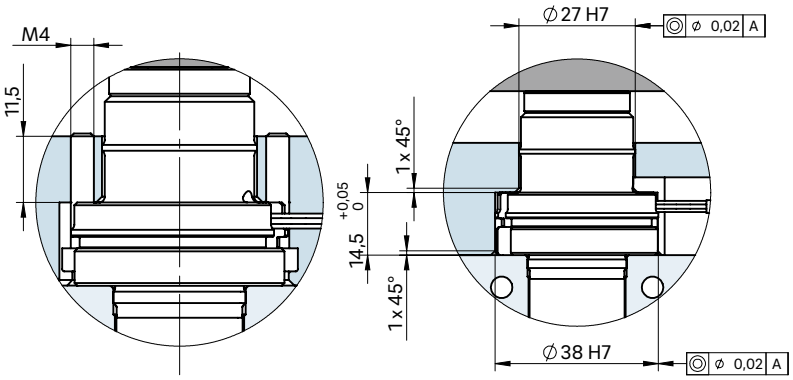


Example cutout for nozzle head, power and thermocouple plug connections

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

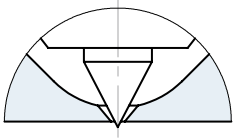
■ *available*

NOTE

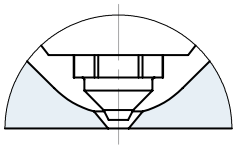
Power connector CMT and thermocouple connector CMLK are to be ordered separately.

WEBCODE
22190

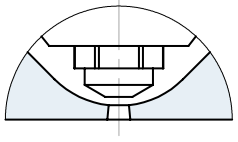
STT – open nozzle with tip
version "Tip"
Antechamber version A



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

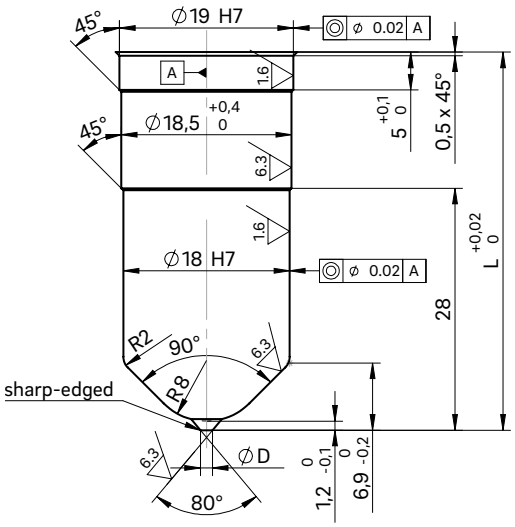


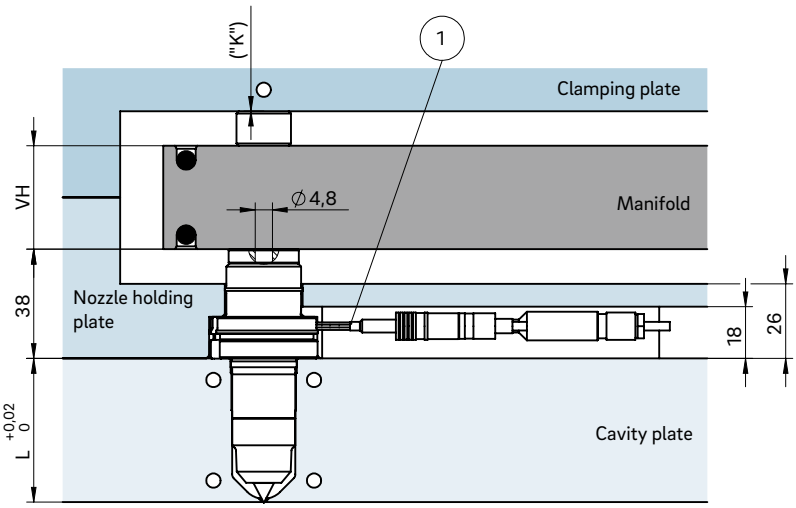
DTT – open nozzle with straight outlet
version A
Antechamber version C



INSTALLATION

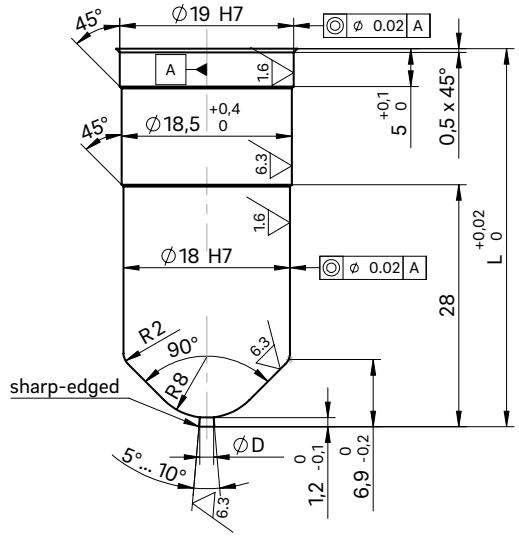
Open nozzle with tip
Nozzle type version C
Antechamber version A

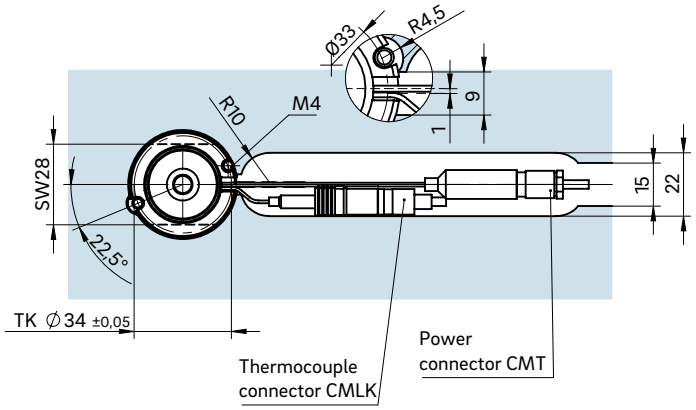


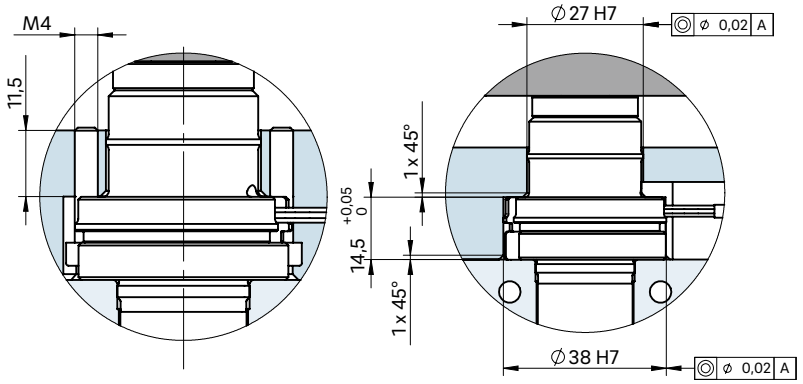


Example cutout for nozzle head, power and thermocouple plug connections

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

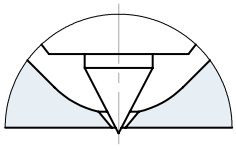
■ *available*

NOTE

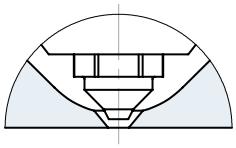
Power connector CMT and thermocouple connector CMLK are to be ordered separately.

WEBCODE
22200

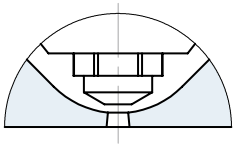
STT – open nozzle with tip
"Tip" version
Antechamber version A



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

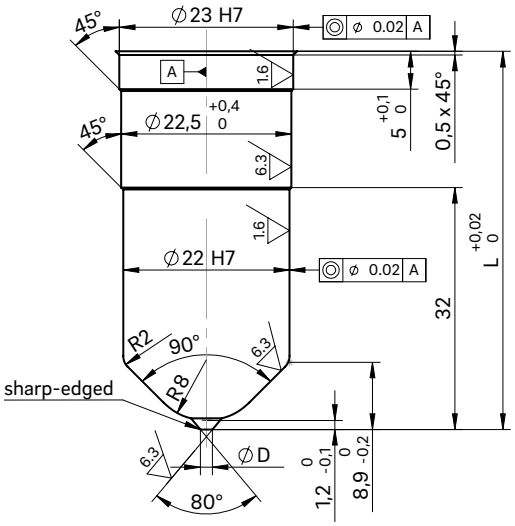


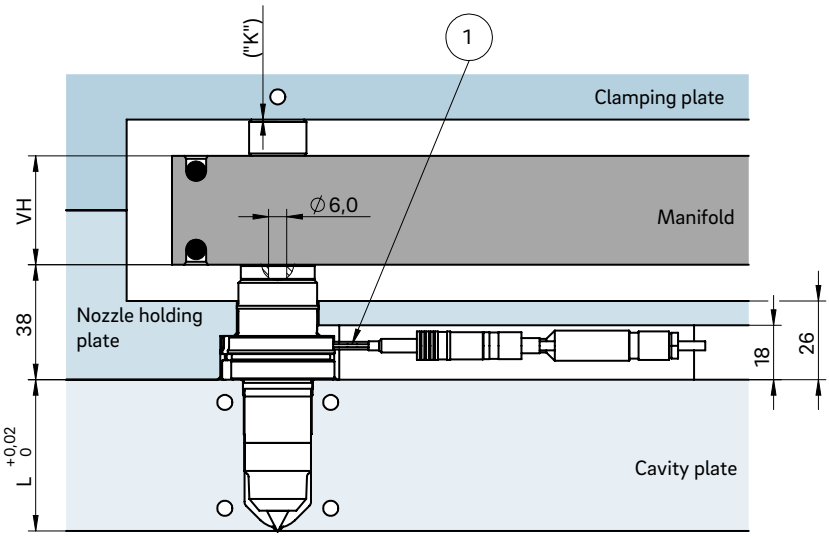
DTT – open nozzle with straight outlet
version A
Antechamber version C



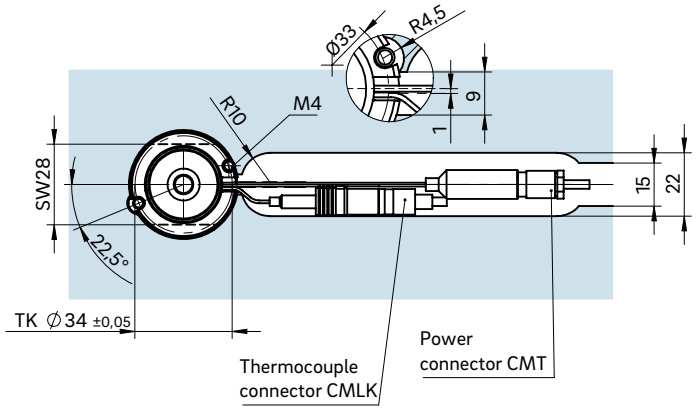
INSTALLATION

Open nozzle with tip
Nozzle type version C
Antechamber version A

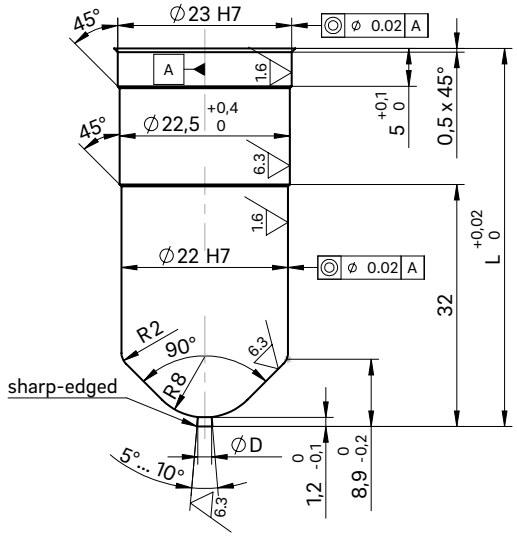


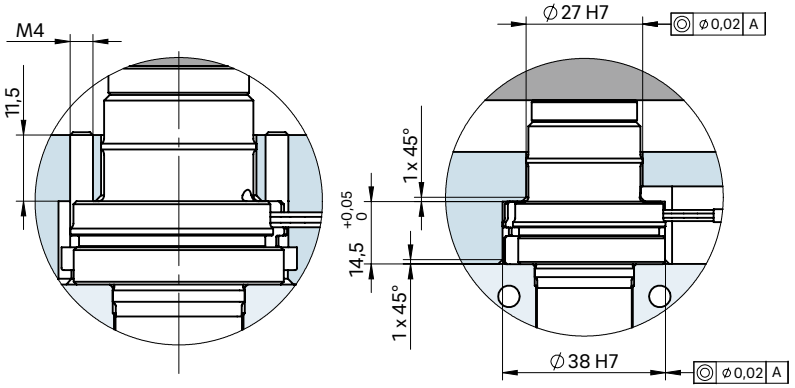


Example cutout for nozzle head, power and thermocouple plug connections



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





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