GÜNTHER®
HOT RUNNER TECHNOLOGY

Multi-drop hot runner nozzles

4 Multi-drop hot runner nozzles

Multi-drop hot runner nozzles

GÜNTHER offer both radial and linear multi-drop hot runner nozzles. Optimum freedom for designing hot runner systems with minimal cavity spacing is made possible by using type SGF/SGT multi-drop hot runner nozzles.

TYPE SGF/SGT MULTI-DROP HOT RUNNER NOZZLE IN A COMMON HOUSING

Up to eight nozzles with a nozzle length of 20 mm or more can be implemented.

FOR VERTICAL GATING: TYPE SGF/SGT MULTI-DROP HOT RUNNER NOZZLES

With their type SGF/SGT multi-drop hot runner nozzles, GÜNTHER Hot Runner Technology has developed a series which ensures optimum freedom for designing your hot runner systems. This nozzle series is ideal for the multi-drop injection of small parts with minimal cavity spacing. Thanks to their flexibility and ability to adapt to complex requirements, type SGF/SGT series nozzles are able to fulfil the highest requirements on the gate position, vestige quality and shot weight

Another advantage for your applications is that the temperature of the nozzles can be controlled separately for each tip. The nozzles allow for a gentle flow of molten plastic and enable the use of compact moulds with a high number of drops on micro-injection moulding machines.

THE ADVANTAGES AT A GLANCE

Type SGF/SGT

- **Simple mould design**
- **Small cavity spacing**
- **Tips can be controlled individually**
- **Also for micro-injection moulding machines**

A perfect solution for side gating is the OktaFlow® hot runner nozzle, which enables up to eight tips to be used for each nozzle.

FOR SIDE GATING: TYPE OKTAFLOW® MULTI-DROP HOT RUNNER NOZZLE

Guaranteed free of problematic production-related "cold slugs", the especially cost-effective and spacesaving multi-drop nozzles of the radial and linear OktaFlow® series ensure direct side gating.

Both versions have the same features – they can be used in combination with a heated nozzle adapter or a manifold for injection moulding tools with a high number of drops. For the processing of filled materials, nozzle tips with wear protection can be used instead to ensure long service lives in continuous operation. The tips can be changed individually.

THE ADVANTAGES AT A GLANCE

Type OktaFlow®

- **Side gating under 90°**
- **Small cavity spacing**
- **High number of cavities**
- **No complex, split insert necessary**
- **Longitudinal expansion via feed nozzle, installation of the sub-manifold independent of the heat expansion**
- **Optimal temperature profile**
- **Exchangeable nozzle tips**
- **Installation-friendly plug-in type power and thermocouple plug connections**
- **Reduced contoller technology requirements**

For side gating under 90 ° without cold slugs, where up to four tips per nozzle are possible.

FOR SIDE GATING: TYPE LHF/LHT MULTI-DROP HOT RUNNER NOZZLES

They can be used in conjunction with a heated adapter or a manifold for injection moulding tools with a high number of drops. This series of nozzles is also suitable for processing filled plastics.

THE ADVANTAGES AT A GLANCE

Type LHF/LHT

- **Side gating under 90 °**
- **Small cavity distances**
- **Optimal temperature profile**
- **Installation-friendly plug-in type power and thermocouple plug connections**
- **Reduced control technology requirements**

4.1 Multi-drop hot runner nozzles with heated adapter as a single nozzle

OktaFlow® linear

Multi-drop hot runner nozzle
linear version for side gating, with heated adapter

TECHNICAL DATA

8OHT

Melt channel Ød	7.5 mm
Operating voltage	230 V_{AC}*

Nominal length of the nozzle (L) in mm

50	80	120
■	■	■

OLT45

Quantity of tips	4 or 8
Operating voltage	230 V_{AC}*

AHJ8

Operating voltage	230 V_{AC}*
Adapter	straight (G)/radius (R)/ angle (W)

Contact us for other nozzle lengths!

*Volts alternating current

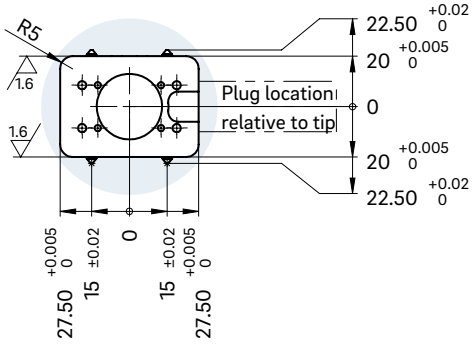
■ *available*

NOTE

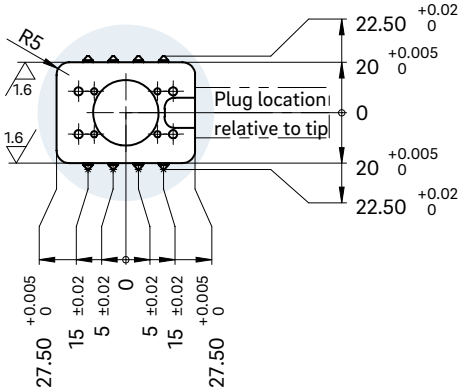
Power connector CMT and thermocouple connector CMLK are to be ordered separately.

WEBCODE
41010

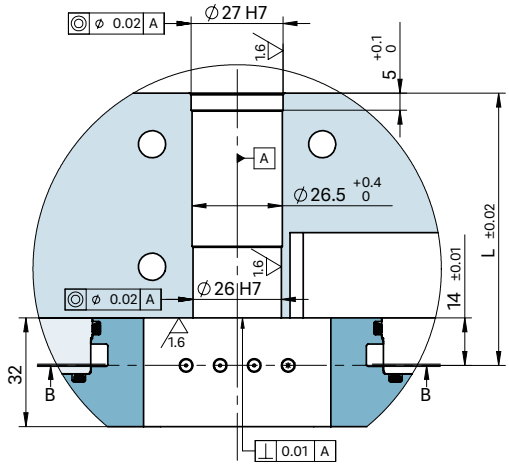
Tip distances for four tips



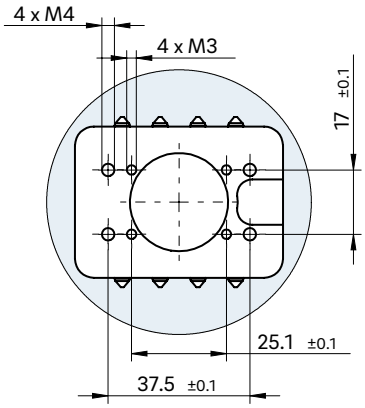
Tip distances for eight tips



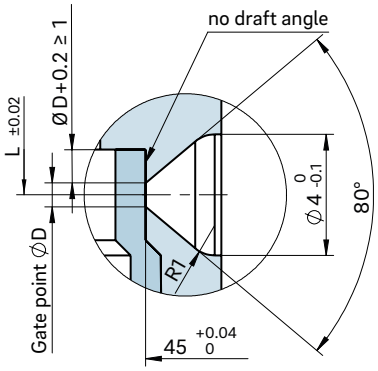
INSTALLATION

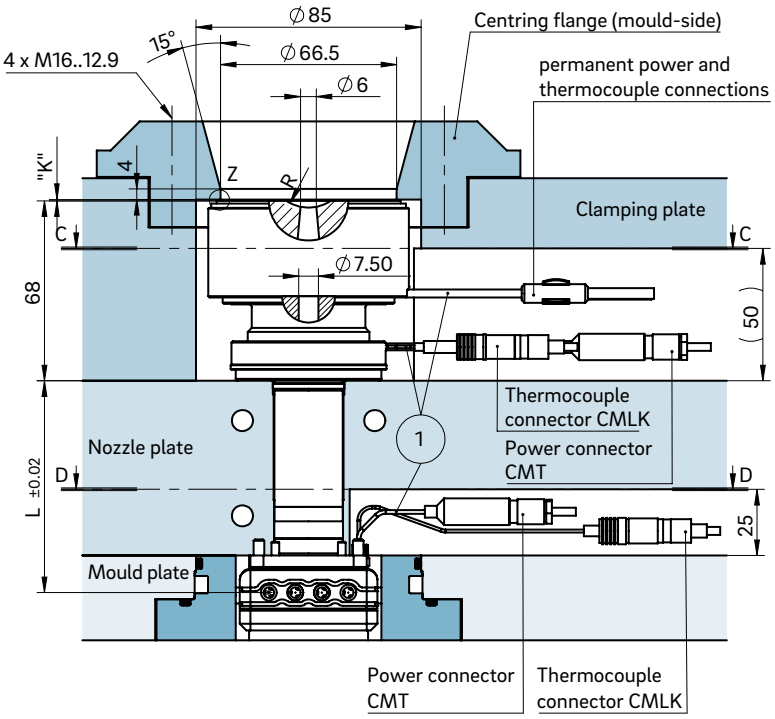


View B-B for fastening screw thread

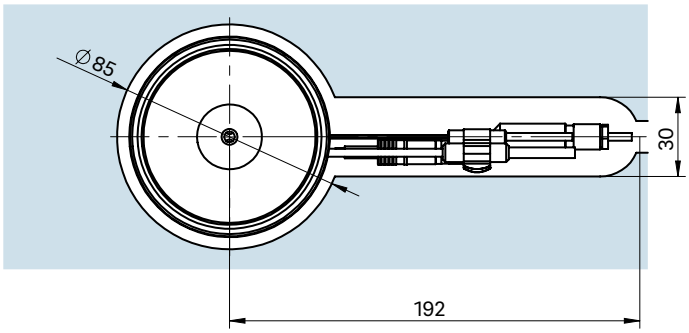


Gate point geometry

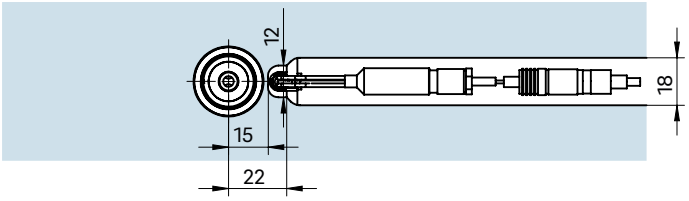




View C-C cutout for nozzle head, power and thermocouple plug connections



View D-D cutout for power and thermocouple plug connections of the sub-manifold

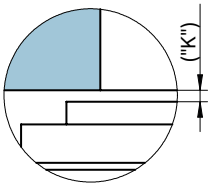


① Power and thermocouple plug connections in this area can only be bent once; minimum radius: R8

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 adapter) 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"



OktaFlow® radial TK45

Multi-drop hot runner nozzle
radial version for side gating, with heated adapter

TECHNICAL DATA

8OHT

Melt channel Ød	7.5 mm
Operating voltage	230 V_{AC}*

Nominal length of the nozzle (L) in mm

60	90	130
■	■	■

ORT45

Quantity of tips	1, 2, 4 or 8
Operating voltage	230 V_{AC}*

AHJ8

Operating voltage	230 V_{AC}*
Adapter	straight (G)/radius (R)/ angle (W)

Contact us for other nozzle lengths!

*Volts alternating current

■ *available*

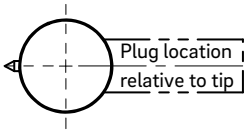
NOTE

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

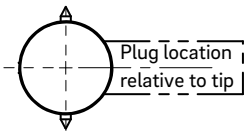
WEBCODE
41020

PLUG LOCATION RELATIVE TO TIP

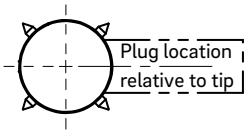
1 tip



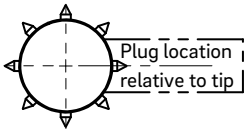
2 tips



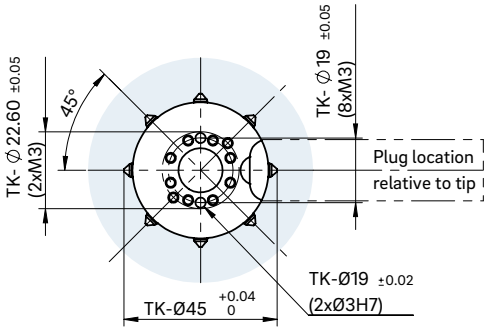
4 tips



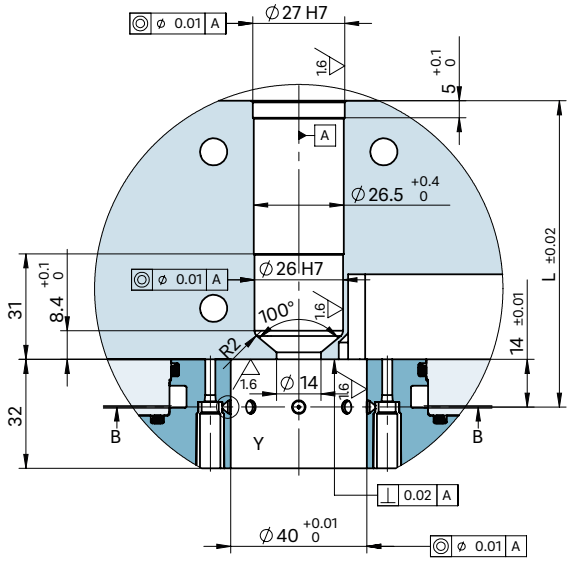
8 tips

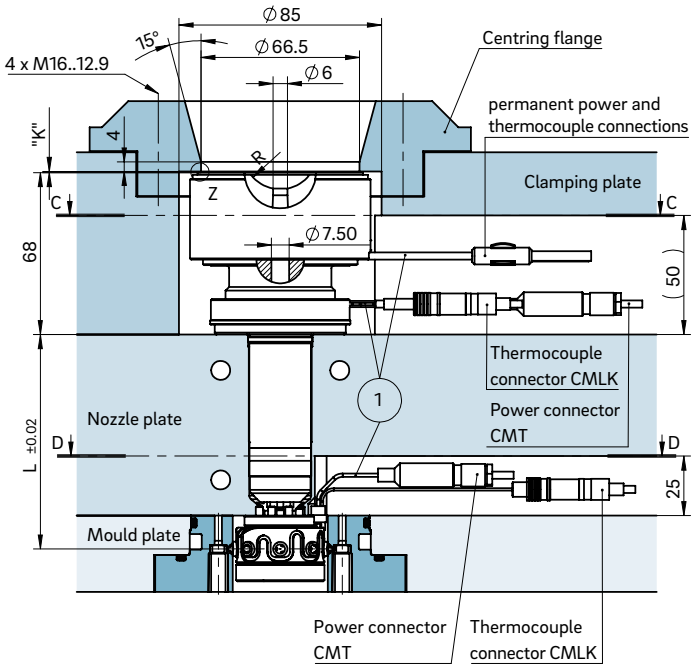


View B-B
Fastening screw thread and tip distance

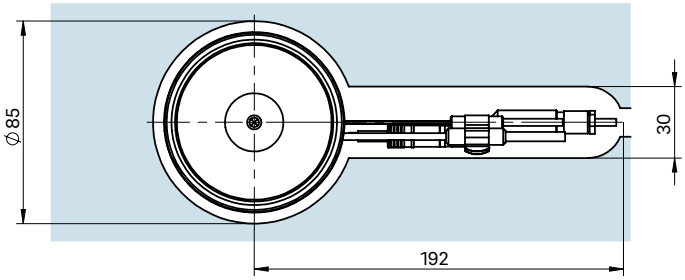


INSTALLATION

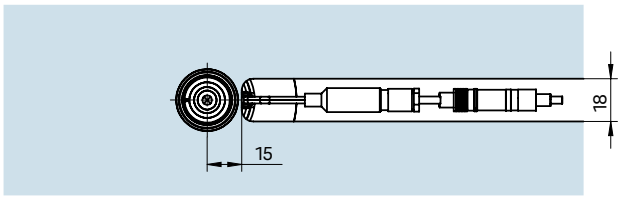




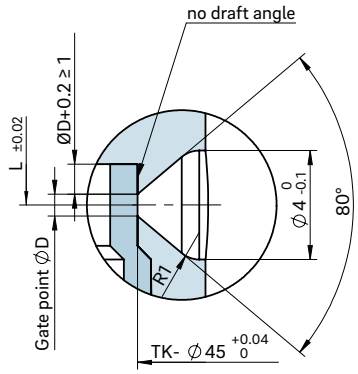
View C-C cutout for nozzle head, power and thermocouple plug connections



View D-D cutout for power and thermocouple plug connections of the sub-manifold



Gate point geometry

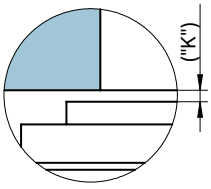


① Power and thermocouple plug connections in this area can only be bent once; minimum radius: R8

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 adapter) 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"



OktaFlow® radial TK65

Multi-drop hot runner nozzle
radial version for side gating, with heated adapter

TECHNICAL DATA

8OHT

Melt channel Ød	7.5 mm
Operating voltage	230 V_{AC}*

Nominal length of the nozzle (L) in mm

65	95	135
■	■	■

ORT65

Quantity of tips	1, 2, 4 or 8
Operating voltage	230 V_{AC}*

AHJ8

Melt channel Ød	6 mm
Operating voltage	230 V_{AC}*
Adapter	straight (G)/radius (R)/ angle (W)

Contact us for other nozzle lengths!

*Volts alternating current

■ *available*

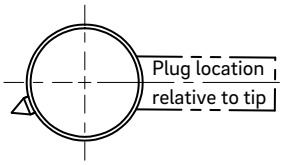
NOTE

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

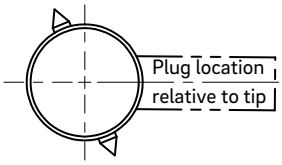
WEBCODE
41030

PLUG LOCATION RELATIVE TO TIP

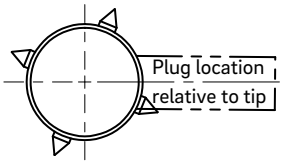
1 tip



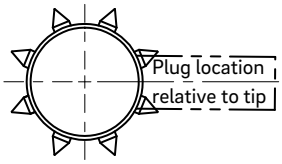
2 tips



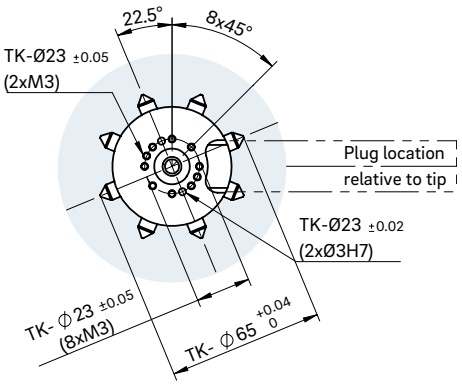
4 tips



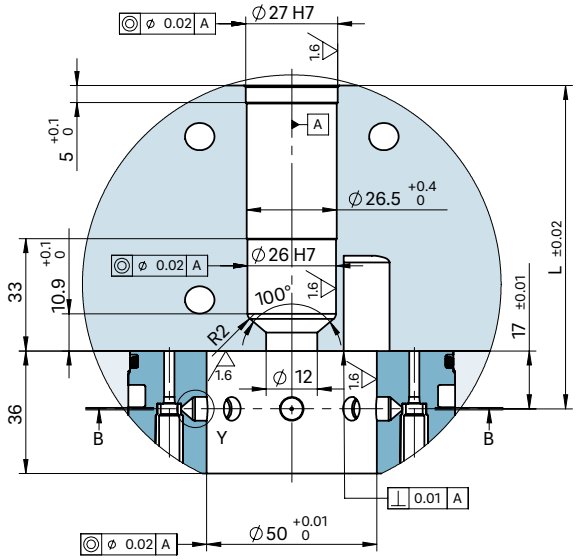
8 tips



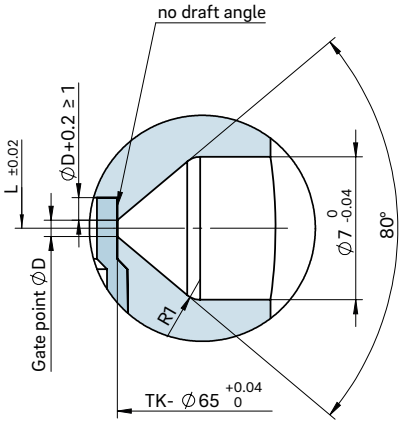
View B-B
Fastening screw thread and tip distance

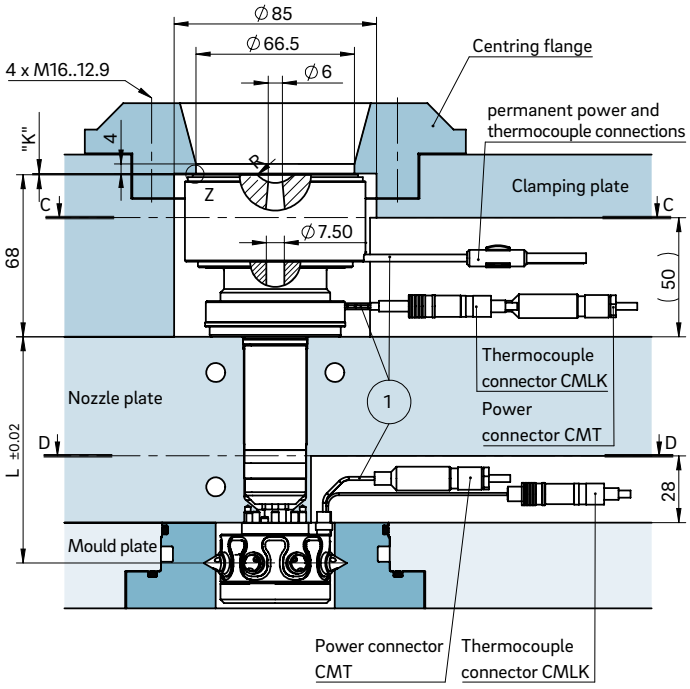


INSTALLATION

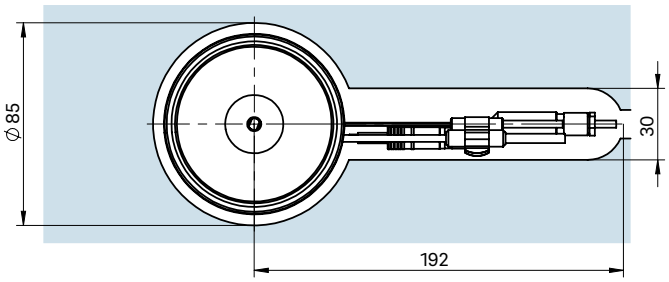


Gate point geometry

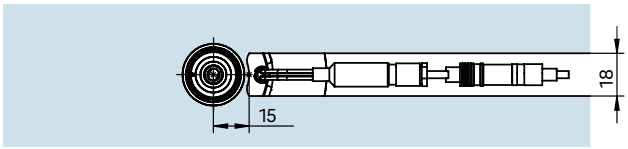




View C-C cutout for nozzle head, power and thermocouple plug connections



View D-D cutout for power and thermocouple plug connections of the sub-manifold

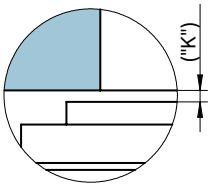


① Power and thermocouple plug connections in this area can only be bent once; minimum radius: R8

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 adapter) 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"



18LHF

Multi-drop hot runner nozzle for side gating under 90 °, without cold slugs, thick-film heating element (BlueFlow®) and heated adapter

TECHNICAL DATA

18LHF

Melt channel Ød	3.8 mm
Operating voltage	230 V_{AC}*
Quantity of tips	1, 2 or 4

Nominal length of the nozzle (L) in mm

60	80	100
■	■	■

AHJ5

Operating voltage	230 V_{AC}*
Adapter	straight (G)/radius (R)/ angle (W)

*Volts alternating current

■ *available*

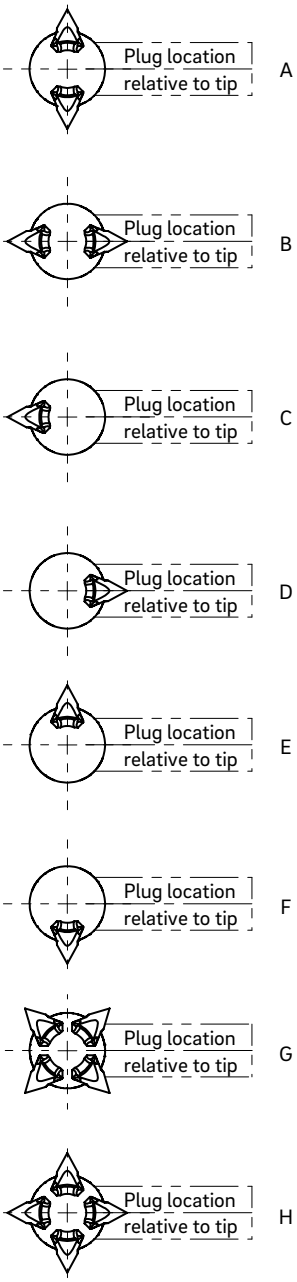
NOTE

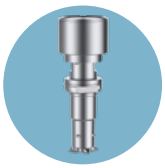
Power connector CHF and thermocouple connector CMLK are to be ordered separately.

BlueFlow® hot runner nozzle type 18LHF is not intended for sale or use in the USA or Canada!

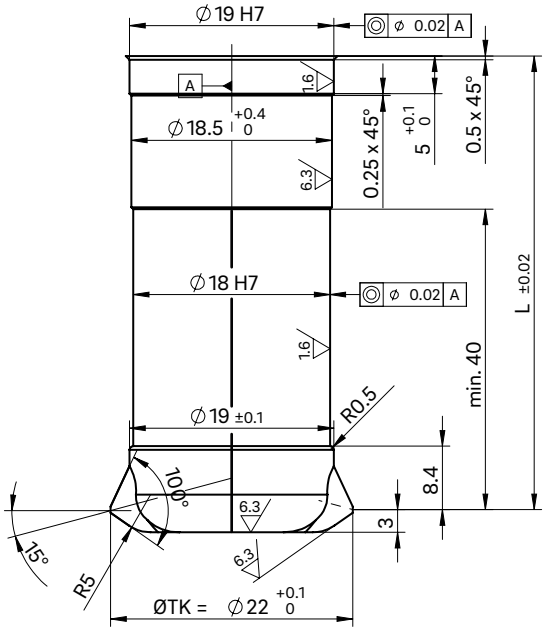
WEBCODE
41040

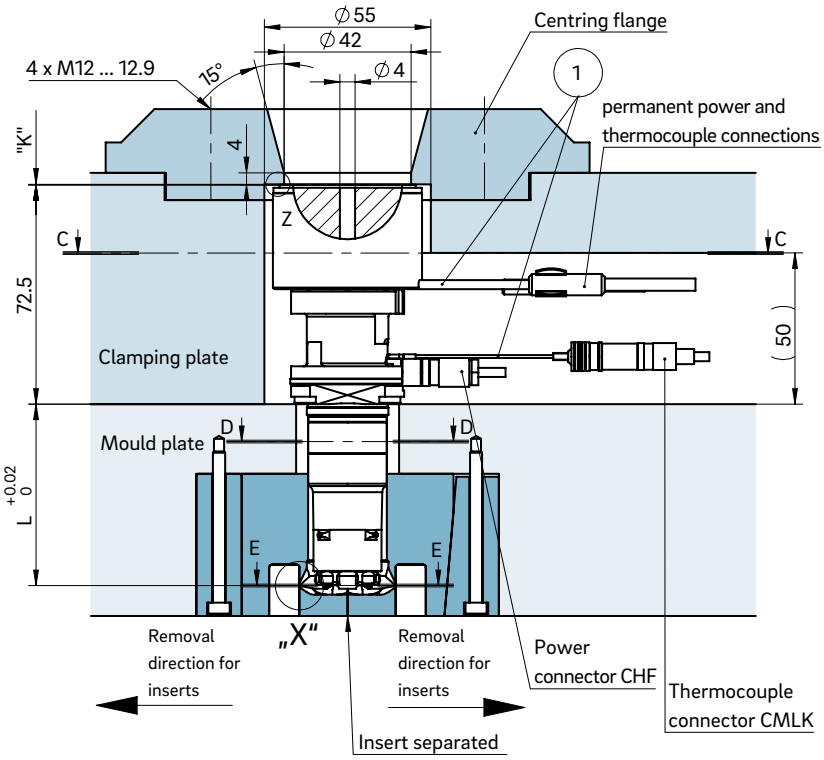
PLUG LOCATION RELATIVE TO TIP



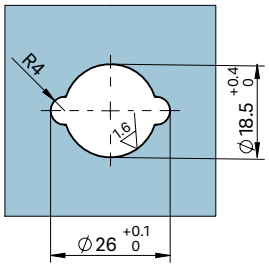


INSTALLATION

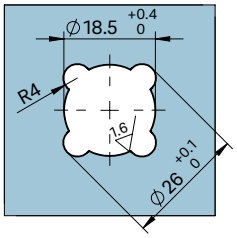




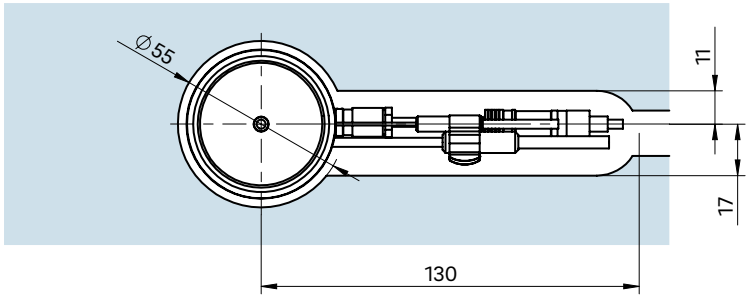
View D-D
for two nozzle tips



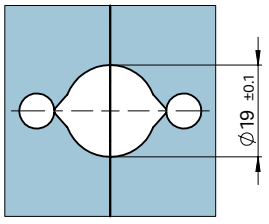
View D-D
for four nozzle tips



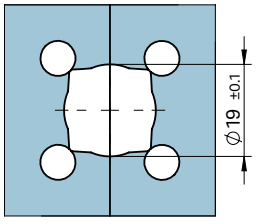
View C-C cutout for nozzle head, power and thermocouple plug connections



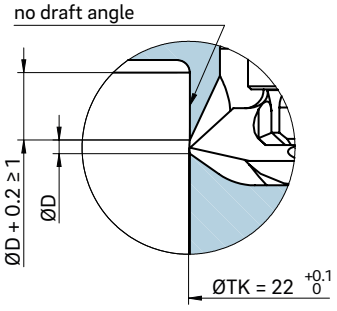
View E-E
for two nozzle tips



View E-E
for four nozzle tips

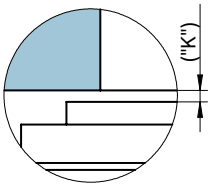


Detail "X"



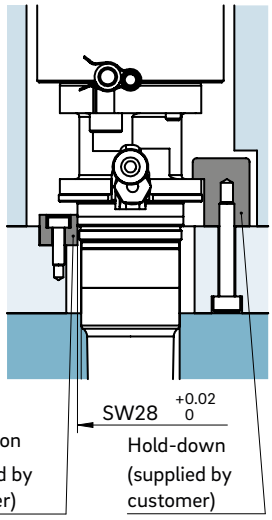
To prevent open jet formations, injection should be carried out against a core, for example.

Detail "Z"



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

Turning prevention



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 adapter) 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

22LHT

Multi-drop hot runner nozzle for side gating under 90°, without cold slugs, with conventional heating element and heated adapter

TECHNICAL DATA

22LHT

Melt channel Ød	4.8 mm
Operating voltage	230 V_{AC}*
Quantity of tips	1, 2 or 4

Nominal length of the nozzle (L) in mm

60	80	100
■	■	■

AHJ5

Operating voltage	230 V_{AC}*
Adapter	straight (G)/radius (R)/ angle (W)

*Volts alternating current

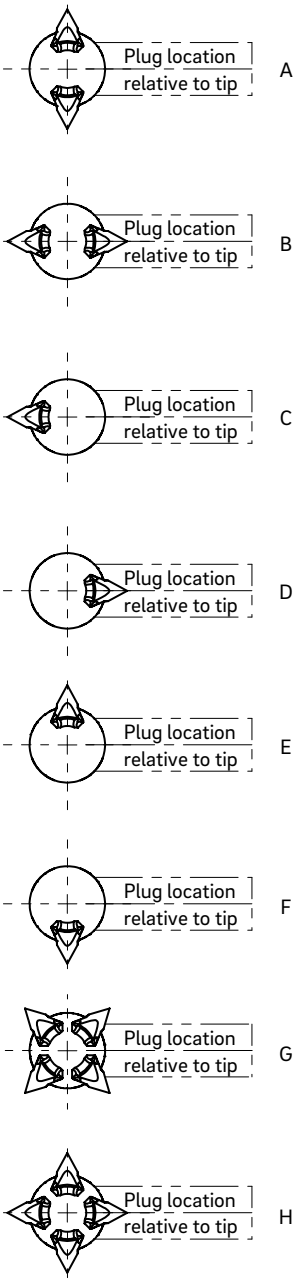
■ *available*

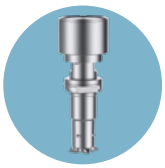
NOTE

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

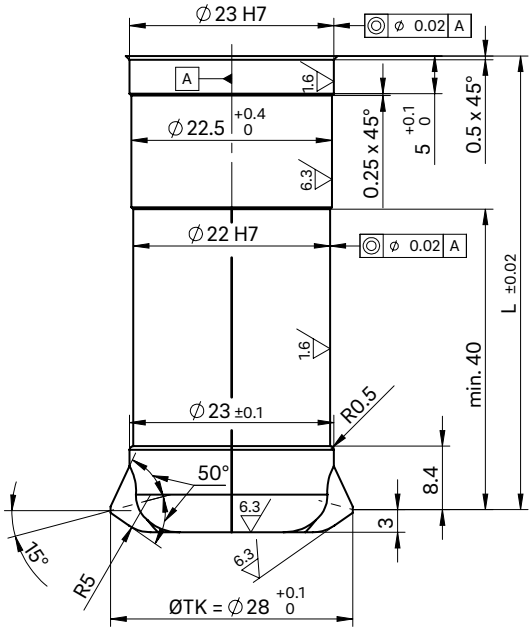
WEBCODE
41050

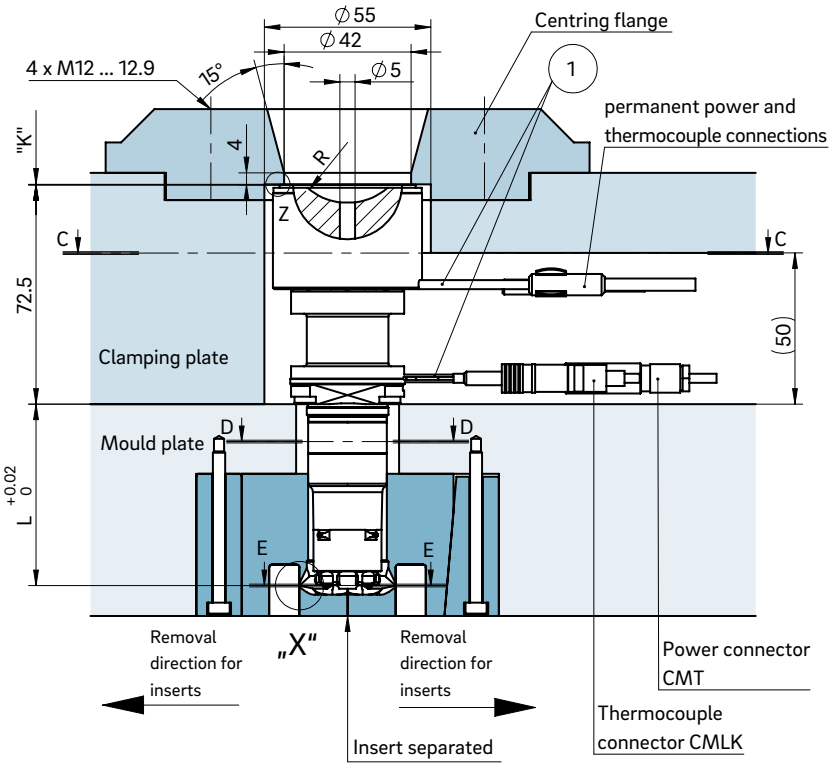
PLUG LOCATION RELATIVE TO TIP



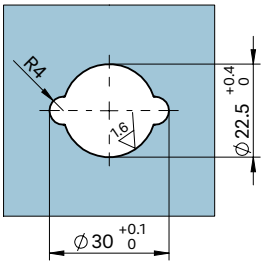


INSTALLATION

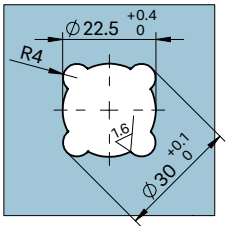




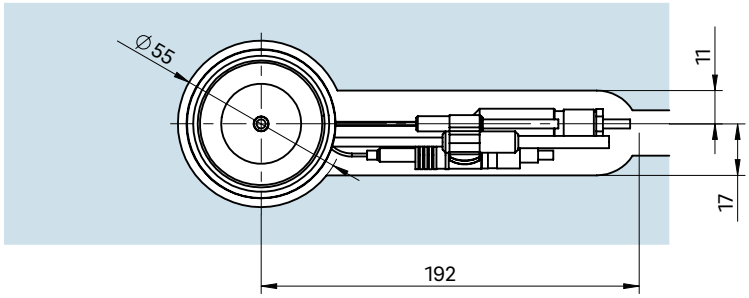
View D-D
for two nozzle tips



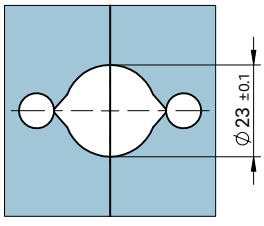
View D-D
for four nozzle tips



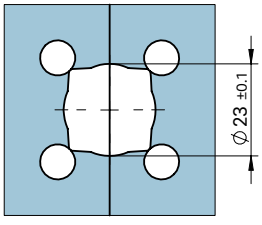
View C-C cutout for nozzle head, power and thermocouple plug connections



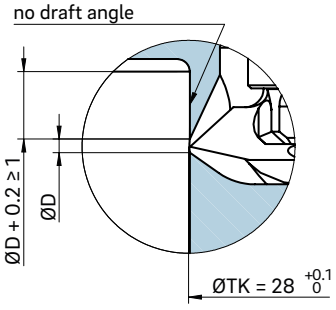
View E-E
for two nozzle tips



View E-E
for four nozzle tips

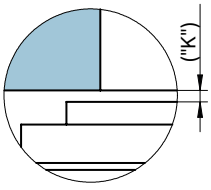


Detail "X"



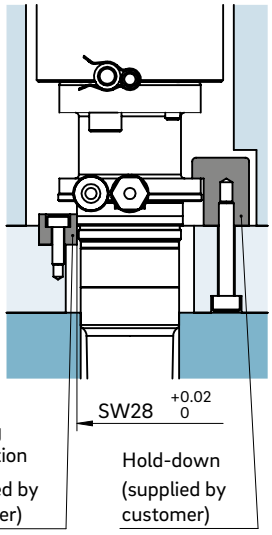
To prevent open jet formations, injection should be carried out against a core, for example.

Detail "Z"



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

Turning prevention



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 adapter) 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

26LHT

Multi-drop hot runner nozzle for side gating under 90 °, without cold slugs, with conventional heating element and heated adapter

TECHNICAL DATA

26LHT

Melt channel Ød	6.0 mm
Operating voltage	230 V_{AC}*
Quantity of tips	1, 2 or 4

Nominal length of the nozzle (L) in mm

60	80	100
■	■	■

AHJ5

Operating voltage	230 V_{AC}*
Adapter	straight (G)/radius (R)/ angle (W)

*Volts alternating current

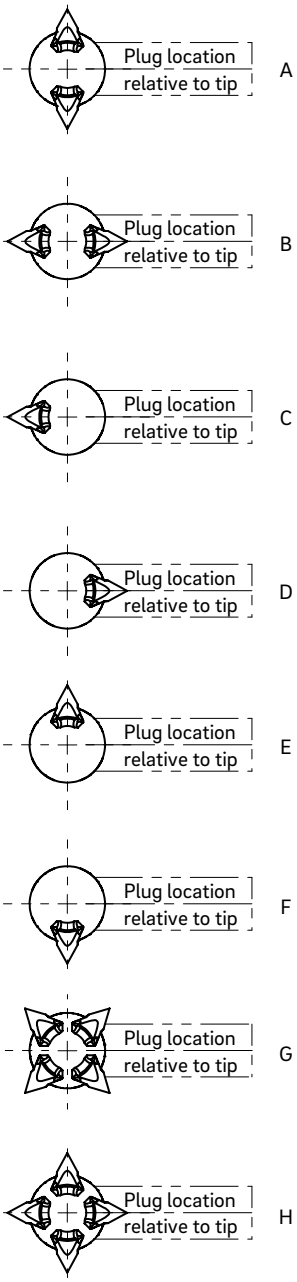
■ *available*

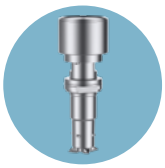
NOTE

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

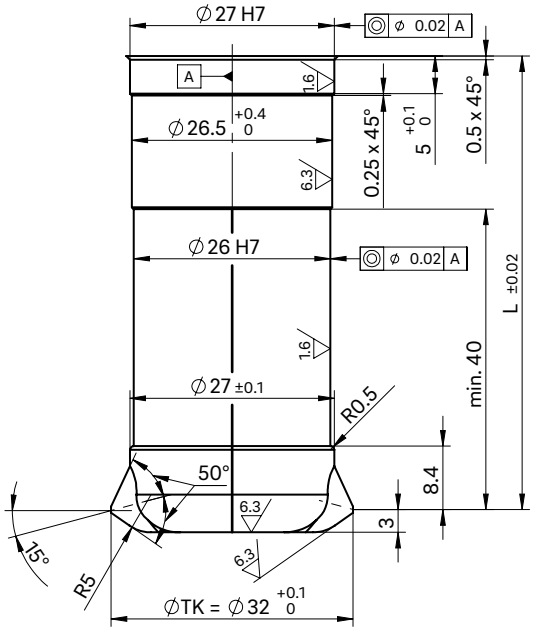
WEBCODE
41060

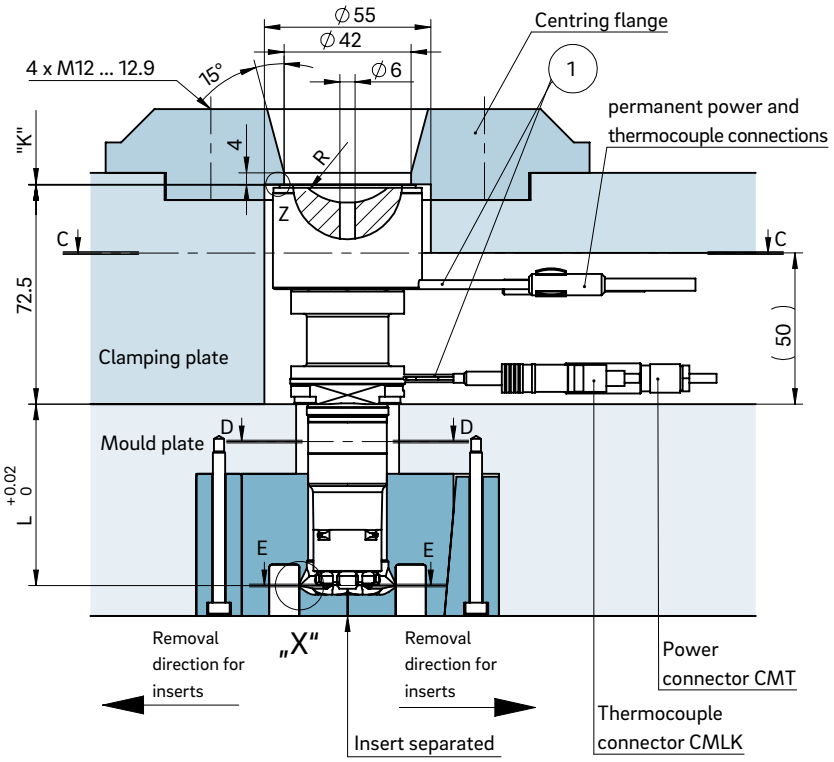
PLUG LOCATION RELATIVE TO TIP



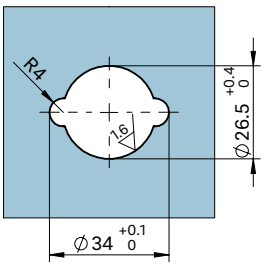


INSTALLATION

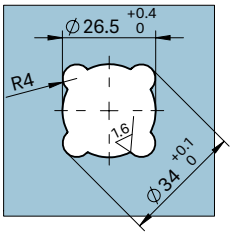




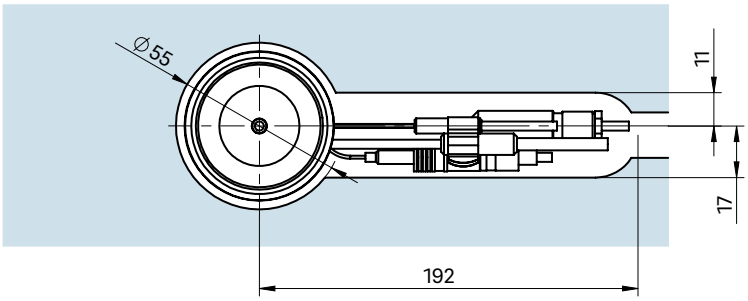
View D-D
for two nozzle tips



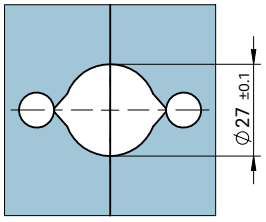
View D-D
for four nozzle tips



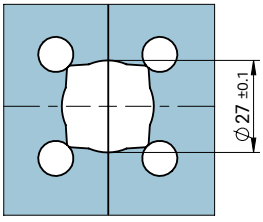
View C-C cutout for nozzle head, power and thermocouple plug connections



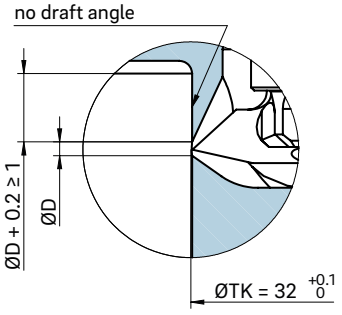
View E-E
for two nozzle tips



View E-E
for four nozzle tips

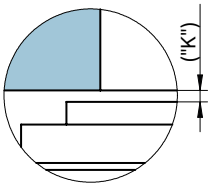


Detail "X"



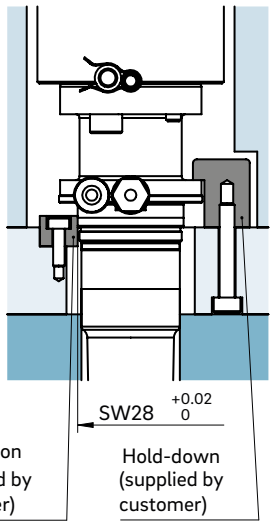
To prevent open jet formations, injection should be carried out against a core, for example.

Detail "Z"



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

Turning prevention



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 adapter) 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

3SGT 2-drop, 3-drop and 4-drop

Multi-drop hot runner nozzle for minimal cavity distances, with heated adapter

TECHNICAL DATA

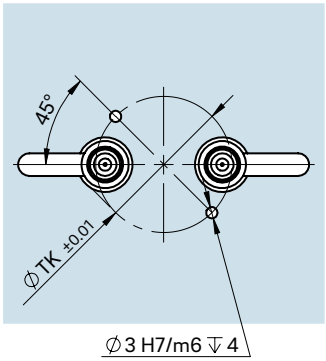
3SGT 2-drop, 3-drop and 4-drop

Melt channel Ød	6 mm
Possible pitch circle diameter ØTK:	
2-drop	**Ø 11 to Ø 31 mm**
3-drop	**Ø 12 to Ø 31 mm**
4-drop	**Ø 14 to Ø 31 mm**
Adapter	straight (G)/radius (R)/ angle (W)
Operating voltage	230 V_{AC}*
Nominal length of the nozzle (L): 20 mm	

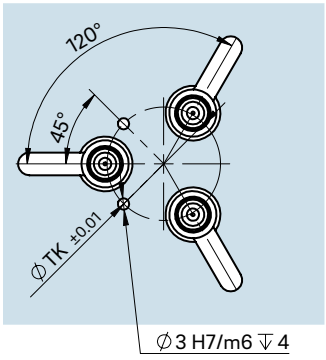
*Volts alternating current

WEBCODE
41070

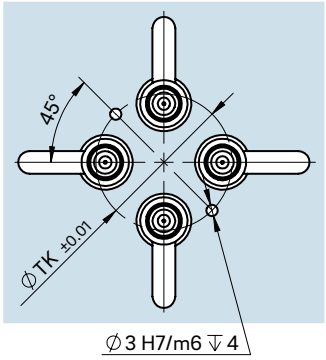
2-drop – cutout for nozzle and centring/ positioning pin



3-drop – cutout for nozzle and centring/ positioning pin

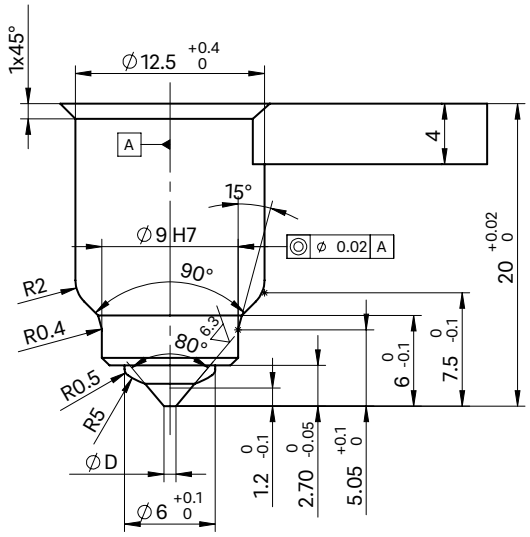


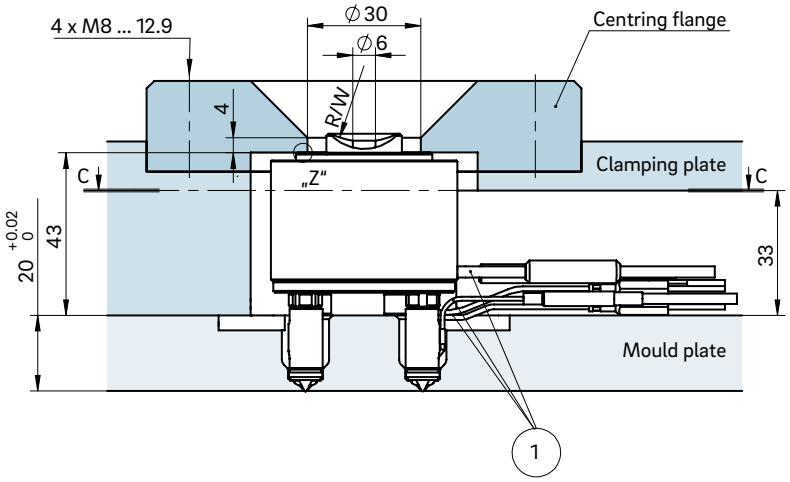
4-drop – cutout for nozzle and centring/ positioning pin

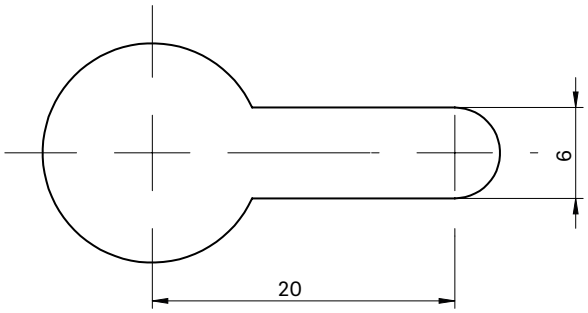


INSTALLATION

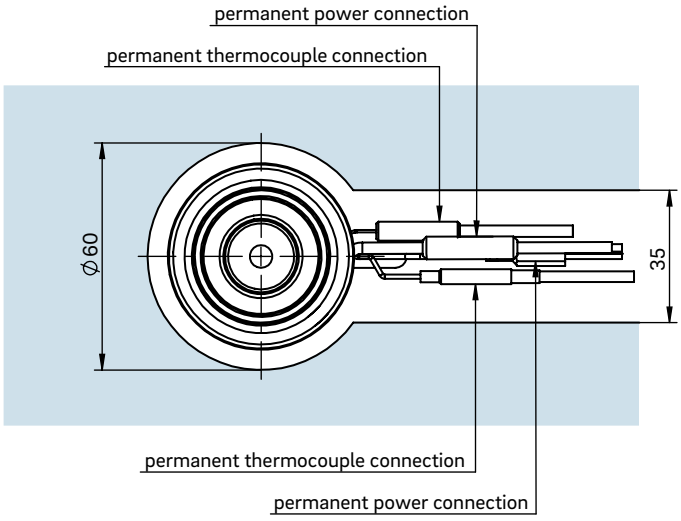
Open nozzle with tip







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

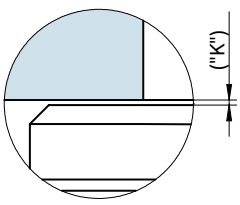


① Power and thermocouple plug connections in this area can only be bent once; minimum radius: R8

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 adapter) 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)	0.01	0.03	0.05	0.07	0.1	0.11

Detail "Z"



3SGT 1-drop

Multi-drop hot runner nozzle for minimal cavity distances, with heated adapter

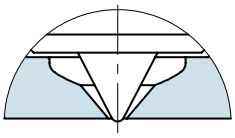
TECHNICAL DATA

3SGT 1-drop

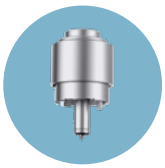
Melt channel Ød	3 mm
Adapter	straight (G)/radius (R)/ angle (W)
Operating voltage	230 V_{AC}*
Nominal length of the nozzle (L): 20 mm	

*Volts alternating current

Version "Tip"
Antechamber version A

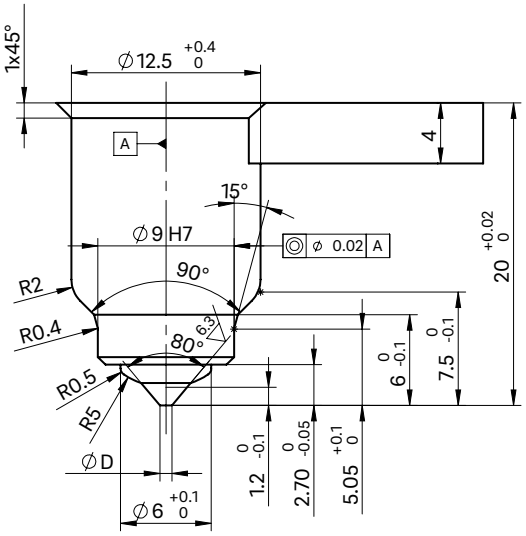


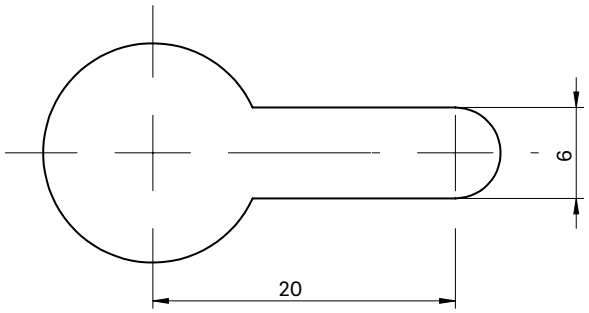
WEBCODE
41080

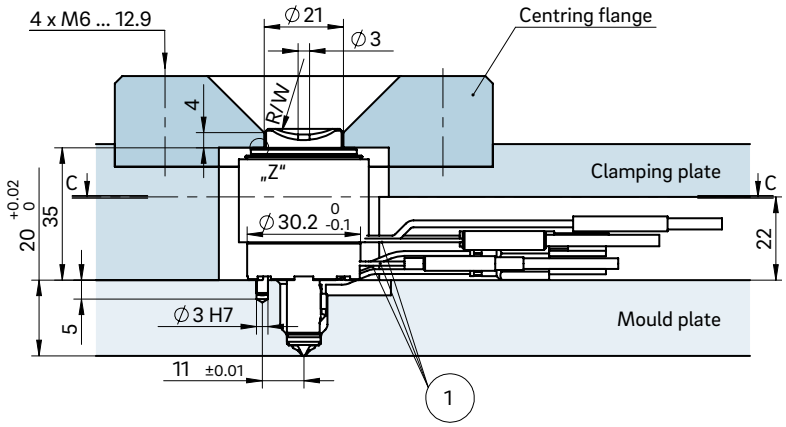


INSTALLATION

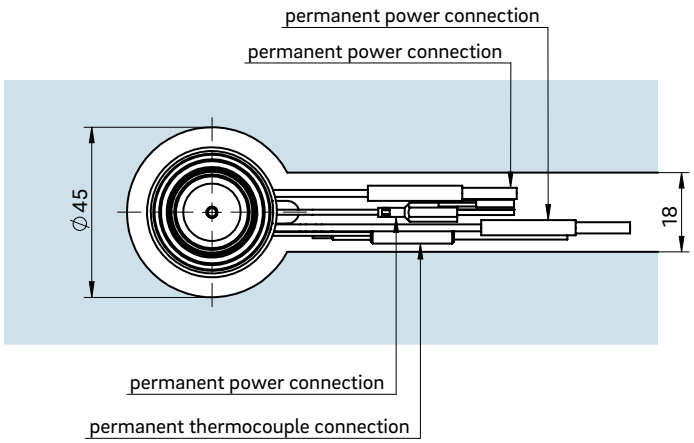
Open nozzle with tip
Nozzle type version C
Antechamber version A







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

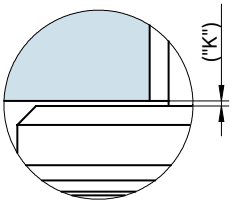


① Power and thermocouple plug connections in this area can only be bent once; minimum radius: R8

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 adapter) 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)	0.02	0.03	0.04	0.06	0.07	0.08

Detail "Z"



4.2 Multi-drop hot runner nozzles as system nozzles

OktaFlow® linear

Multi-drop hot runner nozzle linear version for side gating

TECHNICAL DATA

8OHT

Melt channel Ød	7.5 mm
Operating voltage	230 V_{AC}*

Nominal length of the nozzle (L) in mm

50	80	120
■	■	■

OLT45

Quantity of tips	4 or 8
Operating voltage	230 V_{AC}*

Contact us for other nozzle lengths!

*Volts alternating current

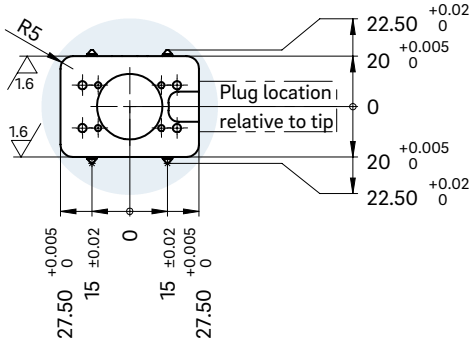
■ *available*

NOTE

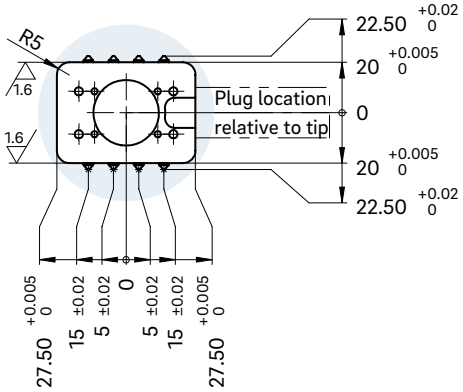
Power connector CMT and thermocouple connector CMLK are to be ordered separately.

WEBCODE
42010

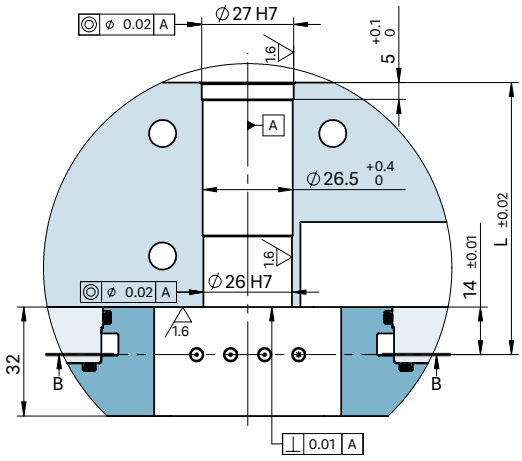
Tip distance for four tips



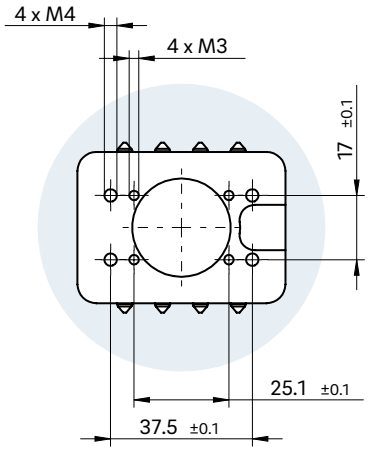
Tip distance for eight tips



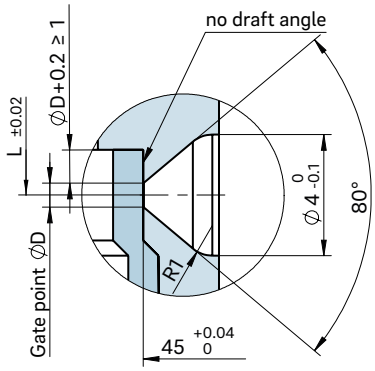
INSTALLATION



View B-B for fastening screw thread

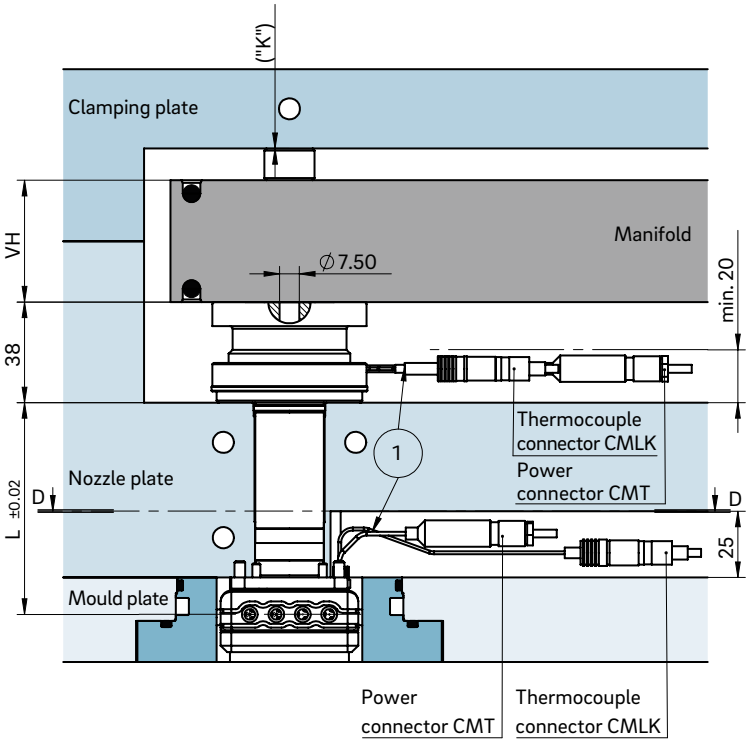


Gate point geometry

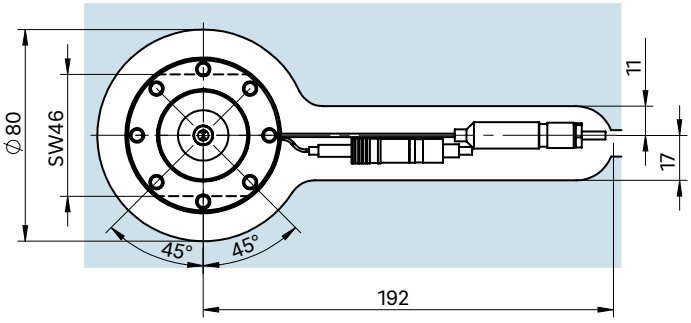


The size "K" required for heat expansion is to be ensured by grinding the pressure pads (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the frame plate when installed! ΔT specifies the temperature differential between the processing temperature and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

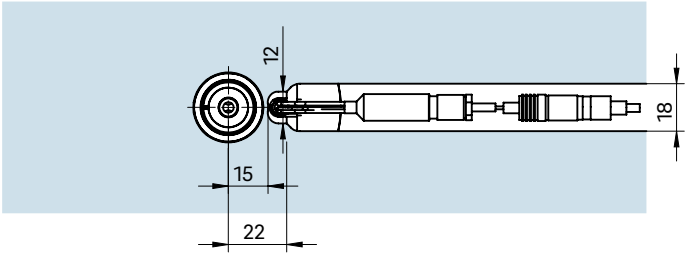
VH	ΔT (°C)	100	150	200	250	300	350
36 mm	K (mm)	0.021	0.059	0.098	0.137	0.177	0.217
46 mm	K (mm)	0.033	0.078	0.124	0.170	0.218	0.264
56 mm	K (mm)	0.046	0.097	0.150	0.203	0.258	0.311



Example Cutout for nozzle head, power and thermocouple plug connections



View D-D cutout for power and thermocouple plug connections of the sub-manifold



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

SW = flat area on nozzle head

OktaFlow® radial TK45

Multi-drop hot runner nozzle radial version for side gating

TECHNICAL DATA

8OHT

Melt channel Ød	7.5 mm
Operating voltage	230 V_{AC}*

Nominal length of the nozzle (L) in mm

60	90	130
■	■	■

ORT45

Quantity of tips	1, 2, 4 or 8
Operating voltage	230 V_{AC}*

Contact us for other nozzle lengths!

*Volts alternating current

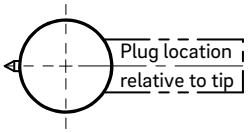
■ *available*

NOTE

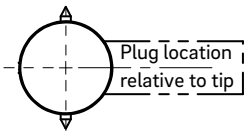
Power connector CMT and thermocouple connector CMLK are to be ordered separately.

PLUG LOCATION RELATIVE TO TIP

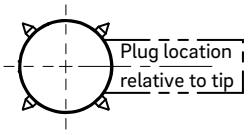
1 tip



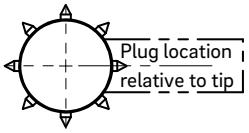
2 tips



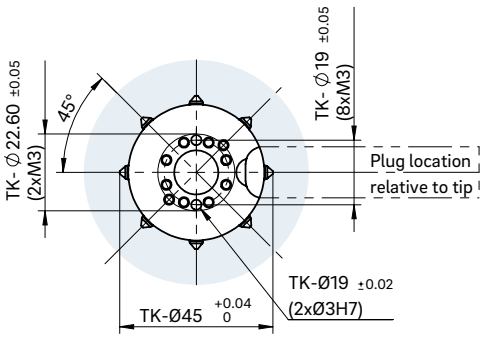
4 tips



8 tips

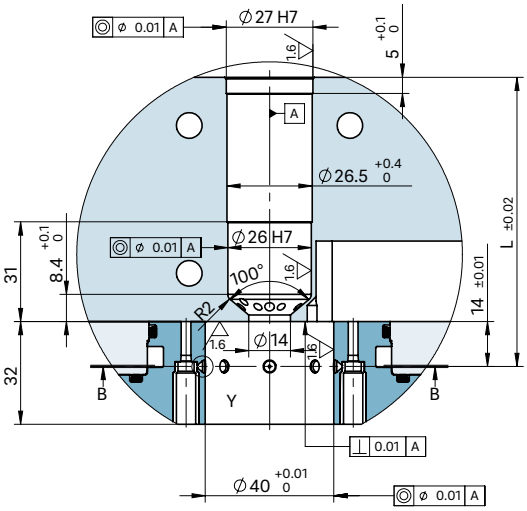


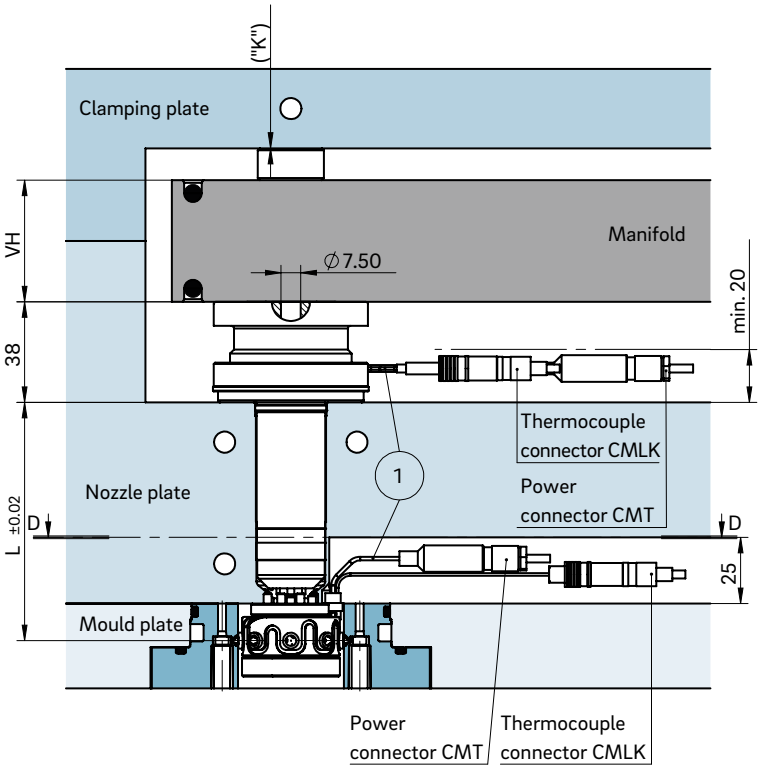
View B-B
Fastening screw thread and tip distance



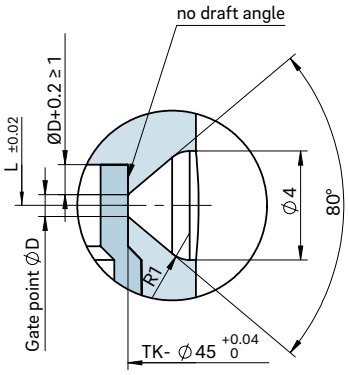
WEBCODE
42020

INSTALLATION

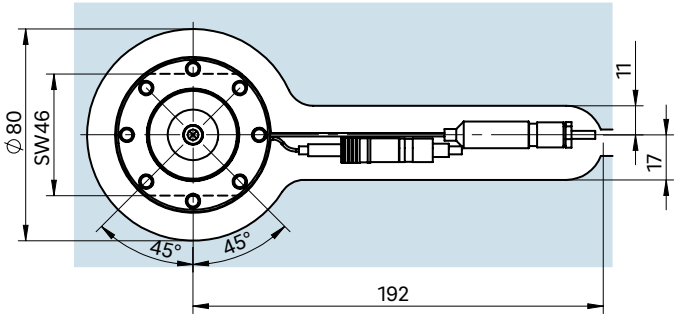




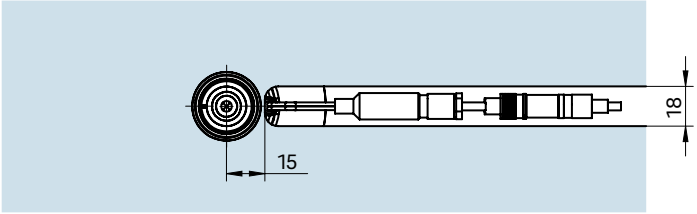
Gate point geometry



Example Cutout for nozzle head, power and thermocouple plug connections



View D-D cutout for power and thermocouple plug connections of the sub-manifold



The size "K" required for heat expansion is to be ensured by grinding the pressure pads (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the frame 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

OktaFlow® radial TK65

Multi-drop hot runner nozzle radial version for side gating

TECHNICAL DATA

8OHT

Melt channel Ød	7.5 mm
Operating voltage	230 V_{AC}*

Nominal length of the nozzle (L) in mm

65	95	135
■	■	■

ORT65

Quantity of tips	1, 2, 4 or 8
Operating voltage	230 V_{AC}*

Contact us for other nozzle lengths!

*Volts alternating current

■ *available*

NOTE

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

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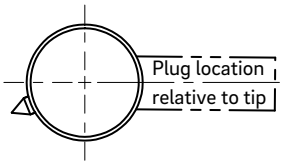
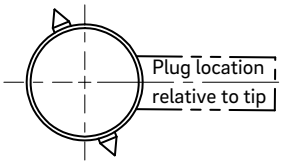
42030

PLUG LOCATION RELATIVE TO TIP

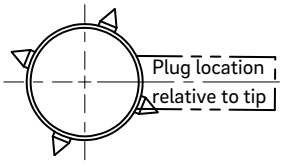
1 tip



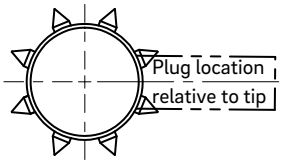
2 tips



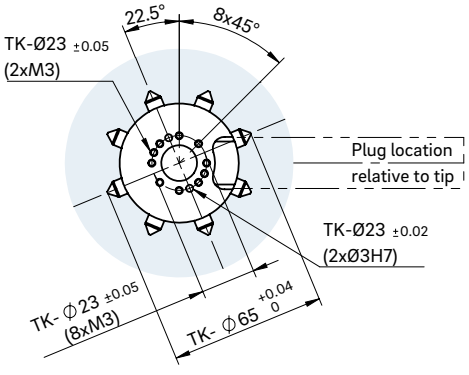
4 tips



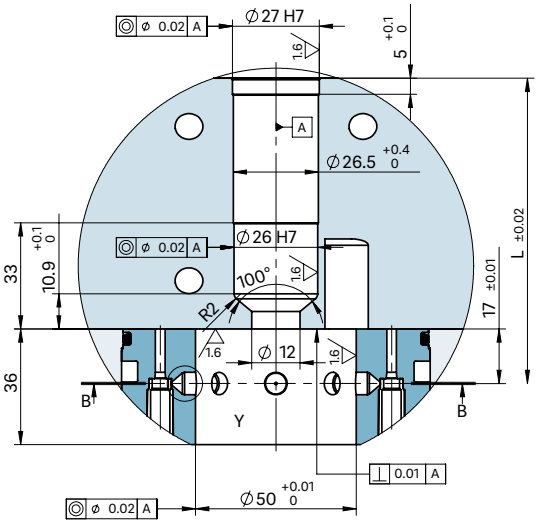
8 tips

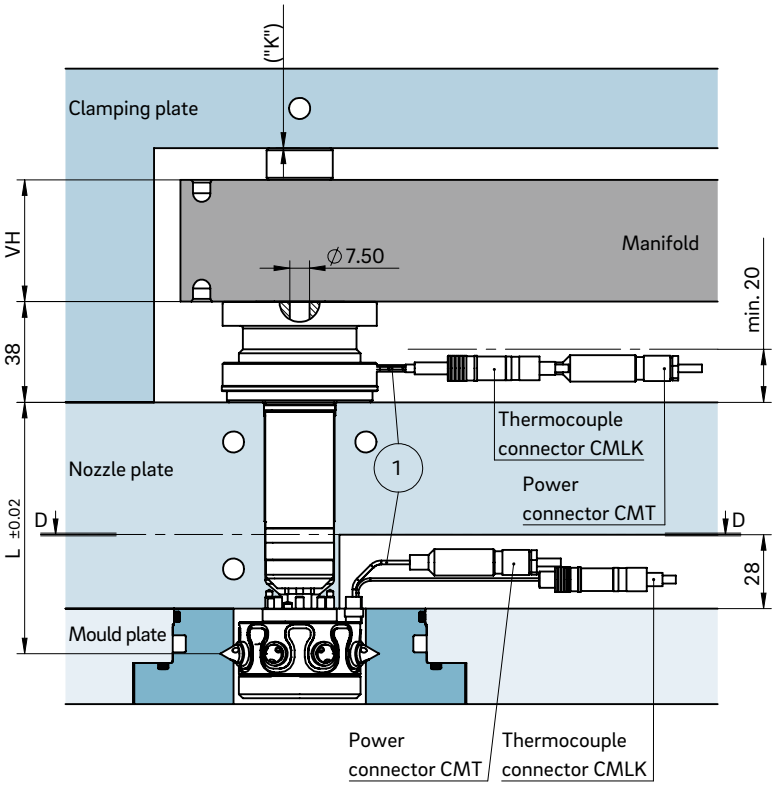


View B-B
Fastening screw thread and tip distance

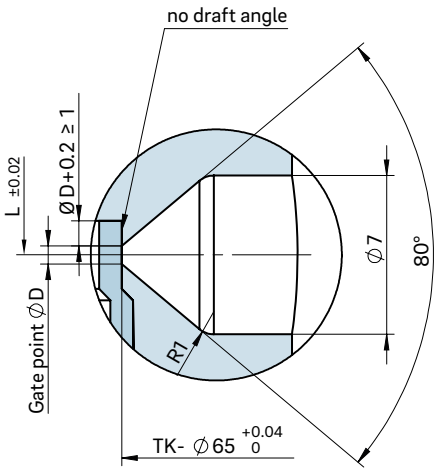


INSTALLATION

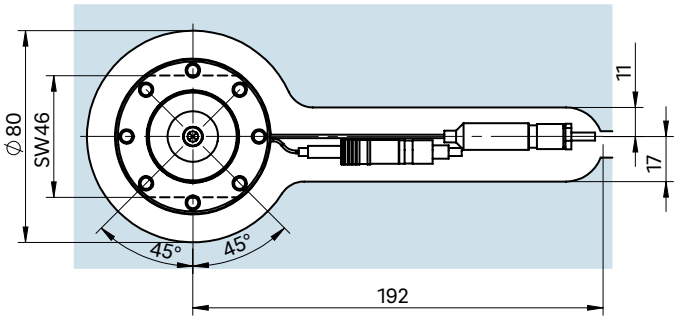




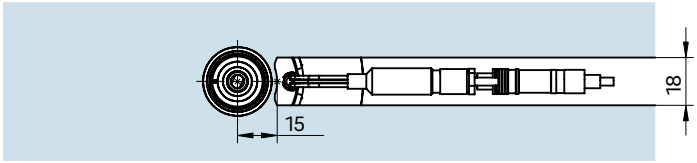
Gate point geometry



Example Cutout for nozzle head, power and thermocouple plug connections



View D-D cutout for power and thermocouple plug connections of the sub-manifold



The size "K" required for heat expansion is to be ensured by grinding the pressure pads (12 + 0.1 mm)! Determine the difference between the height of the manifold system and the height of the frame 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

18LHF

Multi-drop hot runner nozzle for side gating under 90 °, without cold slugs, with thick-film heating element (BlueFlow®)

TECHNICAL DATA

18LHF

Melt channel Ød	3.8 mm
Operating voltage	230 V_{AC}*
Quantity of tips	1, 2 or 4

Nominal length of the nozzle (L) in mm

60	80	100
■	■	■

*Volts alternating current

■ *available*

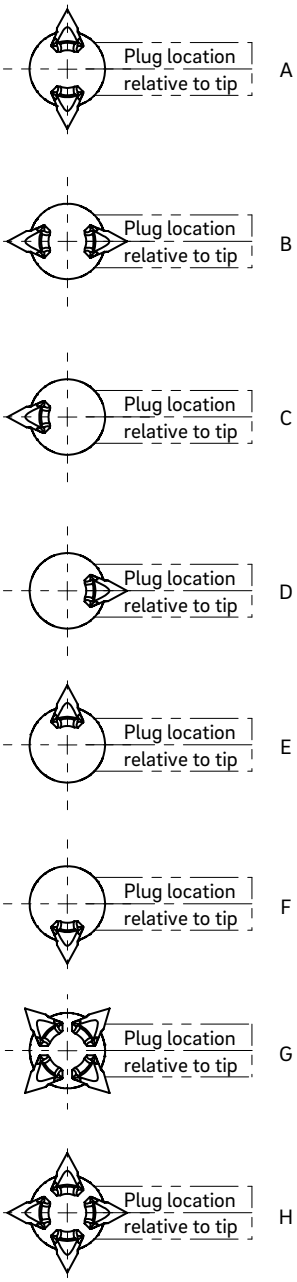
NOTE

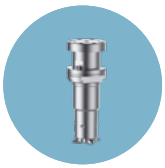
Power connector CHF and thermocouple connector CMLK are to be ordered separately.

BlueFlow® hot runner nozzle type 18LHF is not intended for sale or use in the USA or Canada!

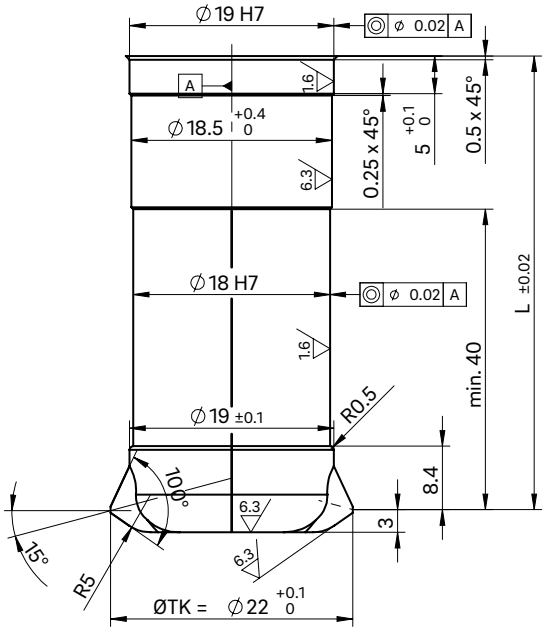
WEBCODE
42040

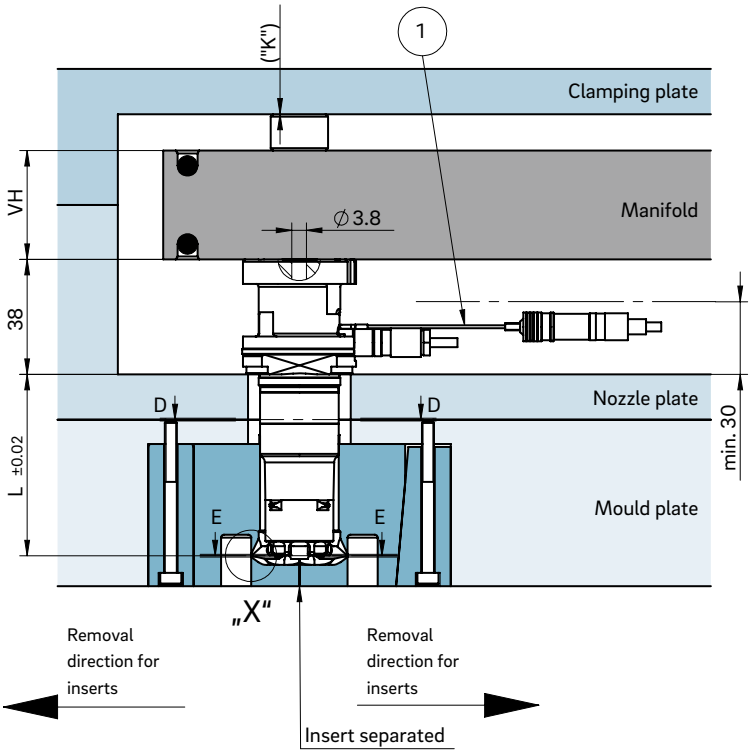
PLUG LOCATION RELATIVE TO TIP



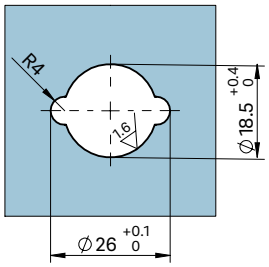


INSTALLATION

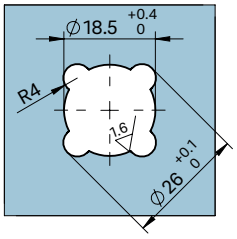




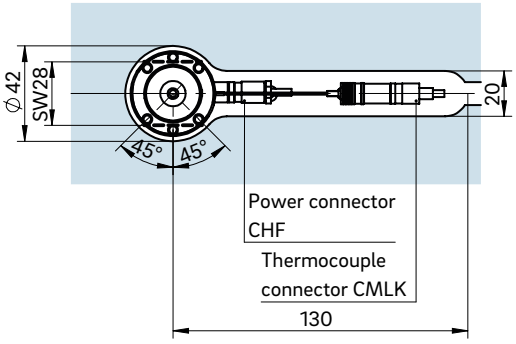
View D-D
for two nozzle tips



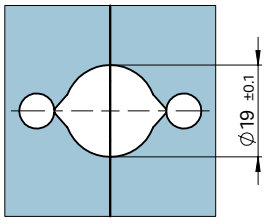
View D-D
for four nozzle tips



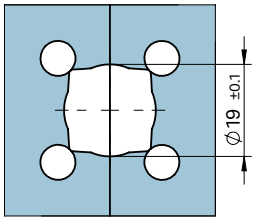
Example cutout for nozzle head, power and thermocouple plug connections



View E-E
for two nozzle tips



View E-E
for four nozzle tips

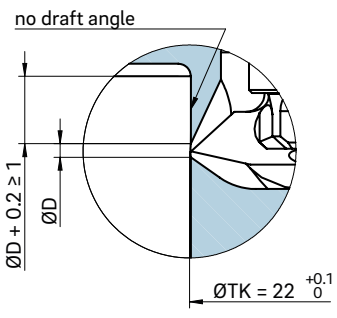


① Thermocouple plug connection in this area can only be bent once; minimum radius: R8
SW = flat area on nozzle head

The size "K" required for heat expansion is to be ensured by grinding the pressure pads (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!

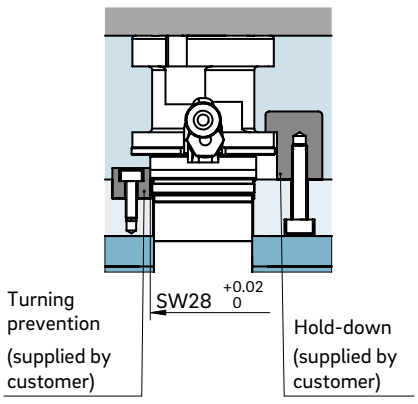
VH	ΔT (°C)	100	150	200	250	300	350
36 mm	K (mm)	0.021	0.059	0.098	0.137	0.177	0.217
46 mm	K (mm)	0.033	0.078	0.124	0.170	0.218	0.264
56 mm	K (mm)	0.046	0.097	0.150	0.203	0.258	0.311

Detail "X"



To prevent open jet formations, injection should be carried out against a core, for example.

Turning prevention



22LHT

Multi-drop hot runner nozzle for side gating under 90 °, without cold slugs, with conventional heating element

TECHNICAL DATA

22LHT

Melt channel Ød	4.8 mm
Quantity of tips	1, 2 or 4
Operating voltage	230 V_{AC}*

Nominal length of the nozzle (L) in mm

60	80	100
■	■	■

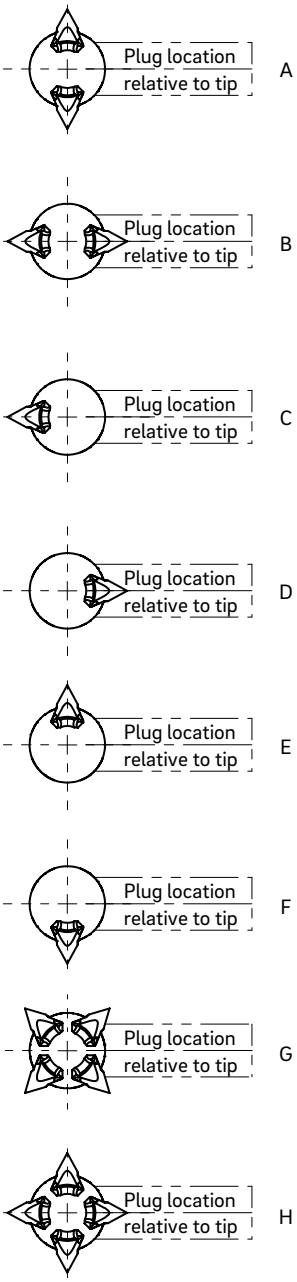
*Volts alternating current

■ *available*

NOTE

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

PLUG LOCATION RELATIVE TO TIP



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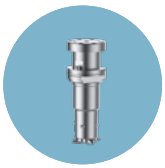
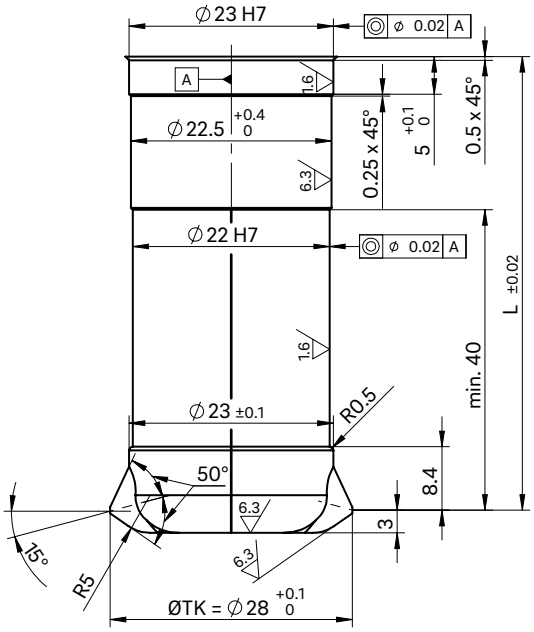
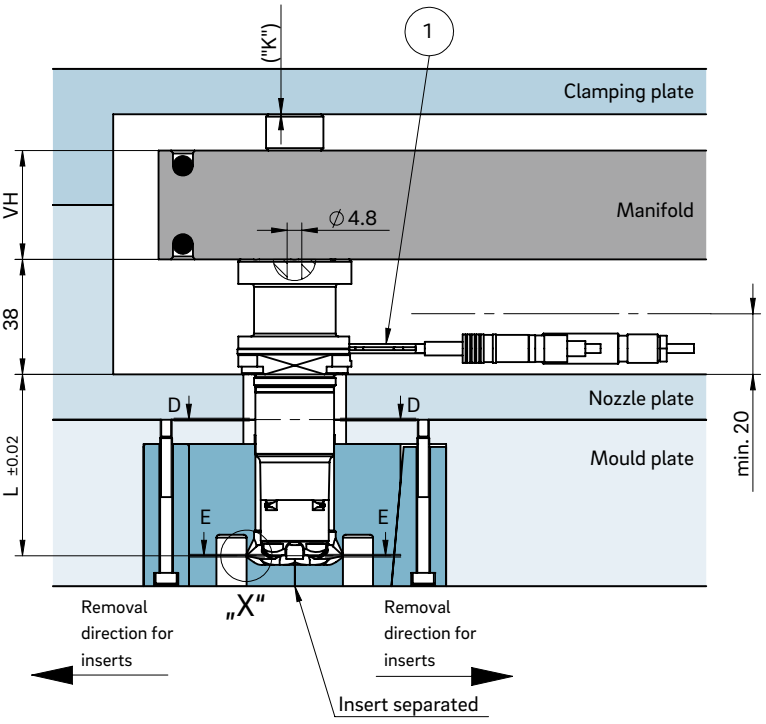
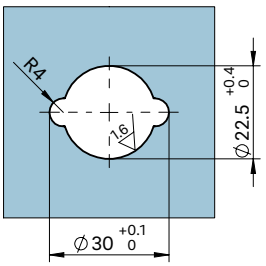


INSTALLATION

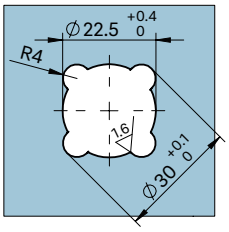




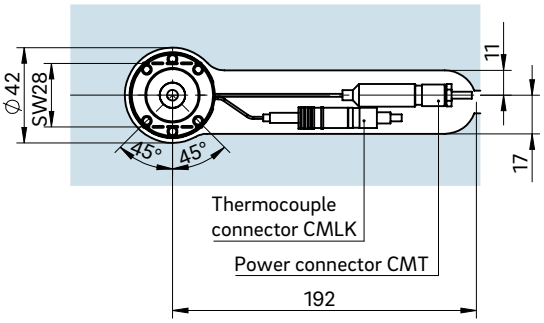
View D-D
for two nozzle tips



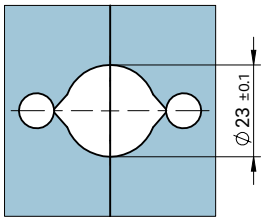
View D-D
for four nozzle tips



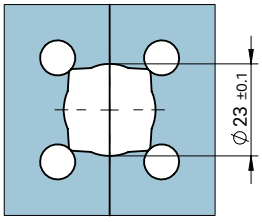
Example cutout for nozzle head, power and thermocouple plug connections



View E-E
for two nozzle tips

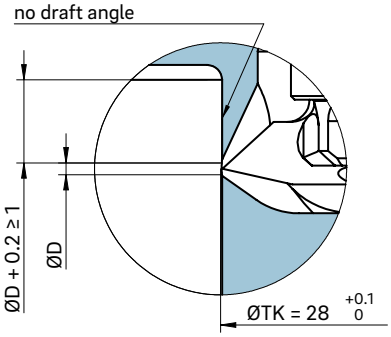


View E-E
for four nozzle tips

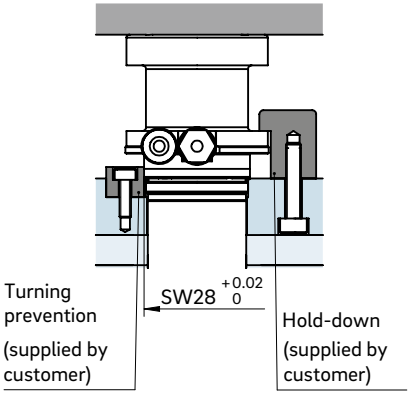


① Thermocouple plug connection in this area can only be bent once; minimum radius: R8
SW = flat area on nozzle head

Detail "X"



Turning prevention



The size "K" required for heat expansion is to be ensured by grinding the pressure pads (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

To prevent open jet formations, injection should be carried out against a core, for example.

26LHT

Multi-drop hot runner nozzle for side gating under 90 °, without cold slugs, with conventional heating element

TECHNICAL DATA

26LHT

Melt channel Ød	6.0 mm
Quantity of tips	1, 2 or 4
Operating voltage	230 V_{AC}*

Nominal length of the nozzle (L) in mm

60	80	100
■	■	■

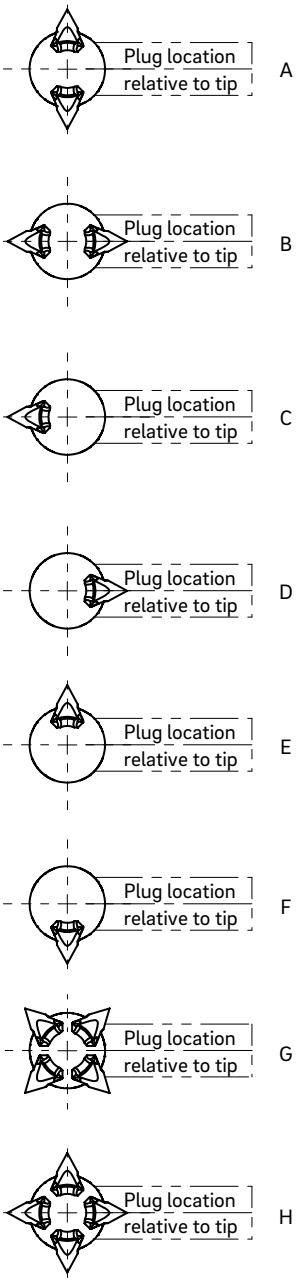
*Volts alternating current

■ *available*

NOTE

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

PLUG LOCATION RELATIVE TO TIP



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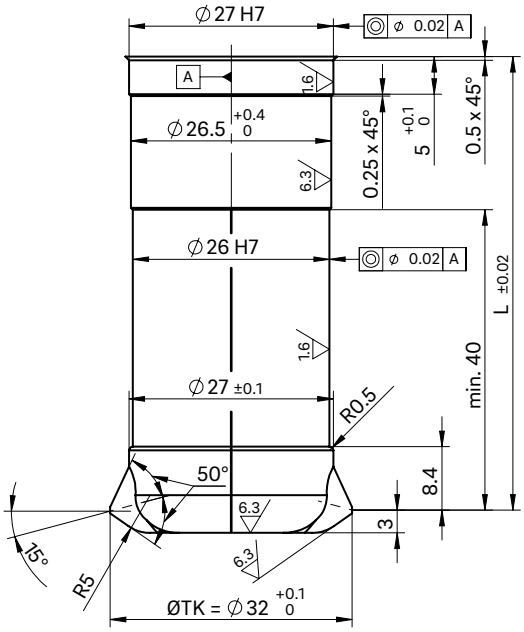
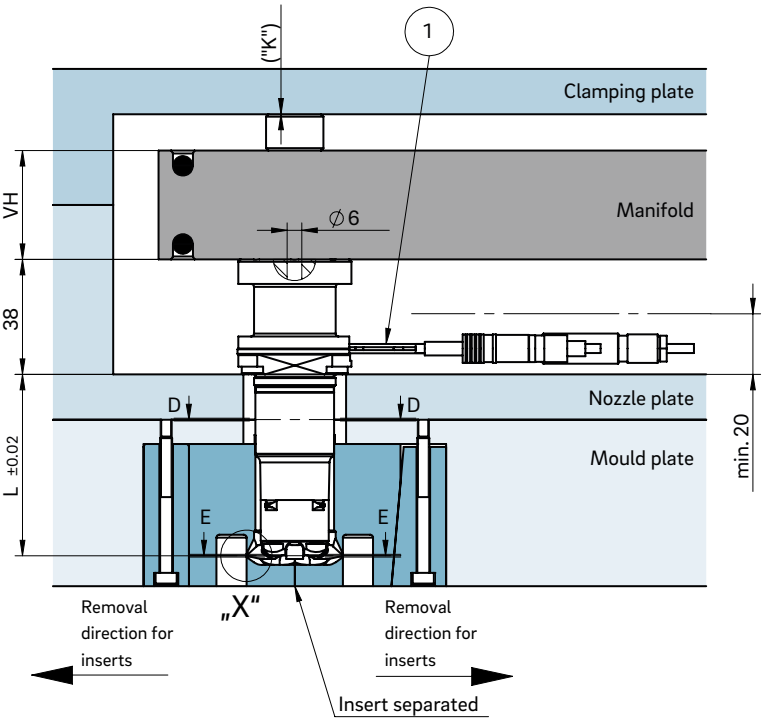
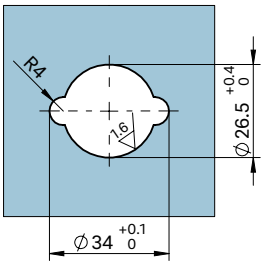
42060

INSTALLATION

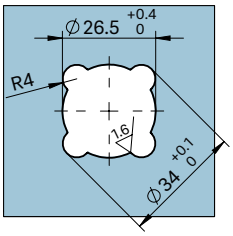




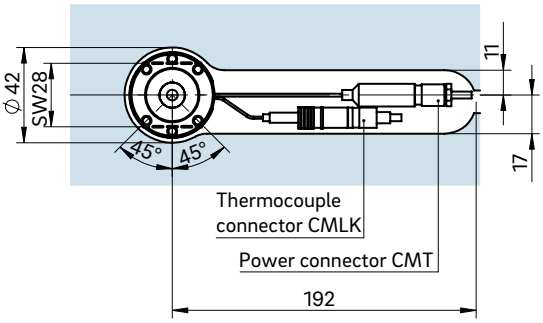
View D-D
for two nozzle tips



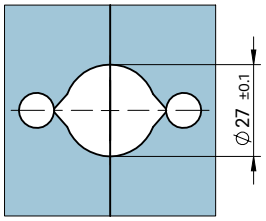
View D-D
for four nozzle tips



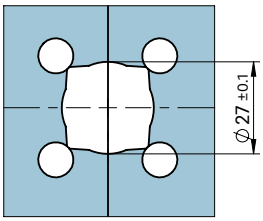
Example cutout for nozzle head, power and thermocouple plug connections



View E-E
for two nozzle tips

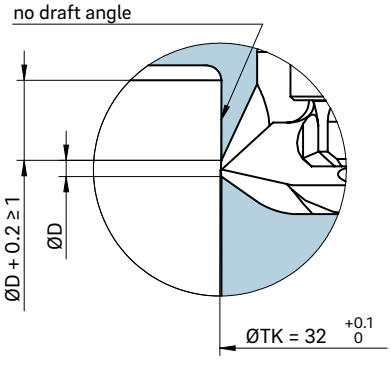


View E-E
for four nozzle tips

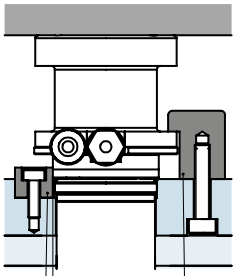


① Power and thermocouple plug connections in this area can only be bent once; minimum radius: R8
SW = flat area on nozzle head

Detail "D"



Turning prevention



Turning prevention (supplied by customer)

Hold-down (supplied by customer)

The size "K" required for heat expansion is to be ensured by grinding the pressure pads (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

To prevent open jet formations, injection should be carried out against a core, for example.

4.3 Connecting elements

HEATED ADAPTERS

Heated adapter type AHJ5

Heated adapter for using LHF/LHT nozzles as a single nozzle

TECHNICAL DATA

AHJ5

Operating voltage	230 V_{AC}*
Adapter	straight (G)/radius (R)/ angle (W)

Can be used with nozzle type/Delivery times:

Type	18LHF	22LHT	26LHT
AHJ5	■	■	■

*Volts alternating current

■ *Short delivery time*

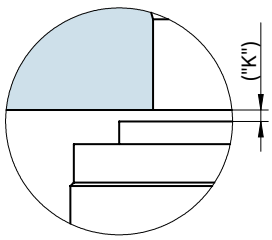
NOTE

Recommended for processing thermally sensitive plastics.

Using a heated adapter, the nozzle types specified above can also be used as single nozzles.

Specify the machine nozzle version when ordering.

Detail "Z"

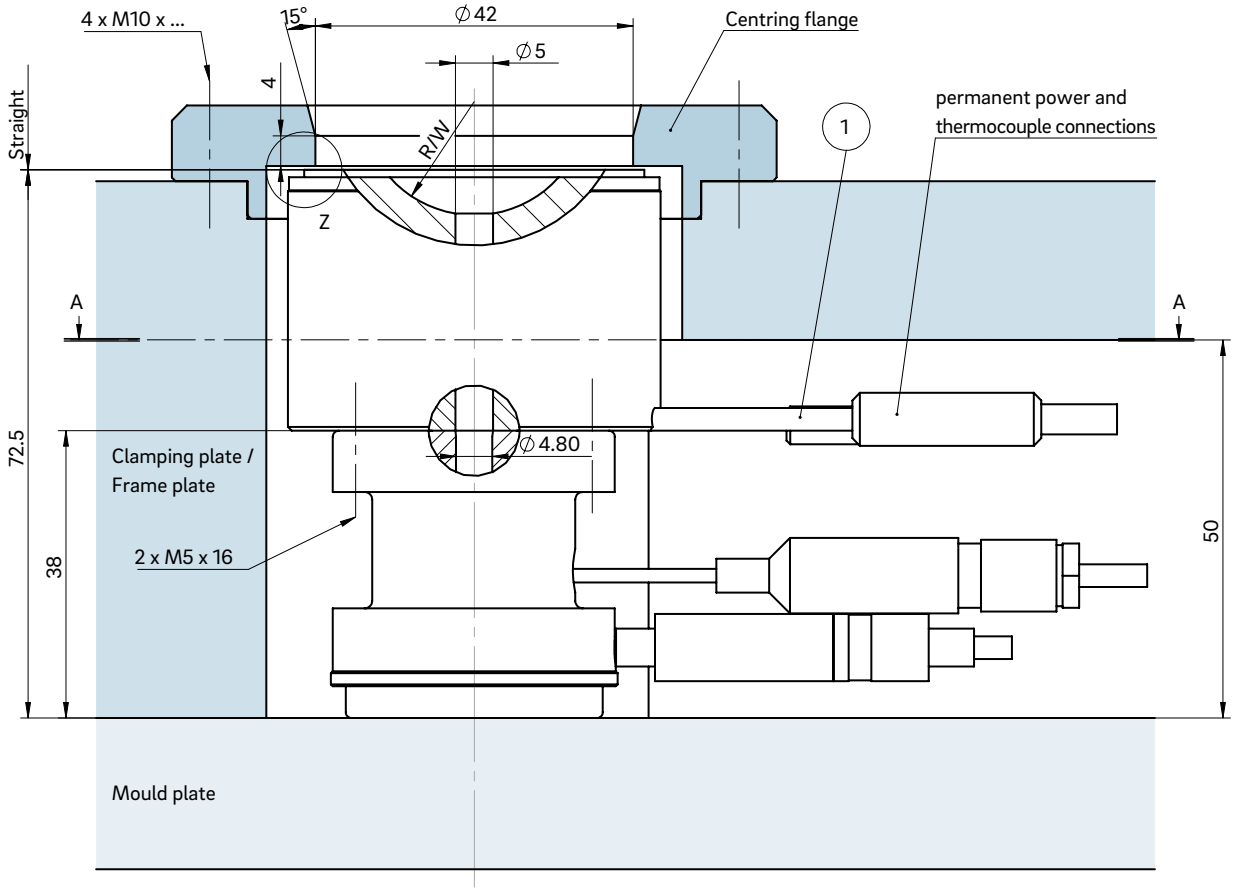


Dimension "K" required for heat expansion is to be ensured by grinding the locating ring! Determine the difference between the height of the nozzle (with adapter) and the height of the structure when installed! ΔT specifies the temperature differential between the processing temperature and the mould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

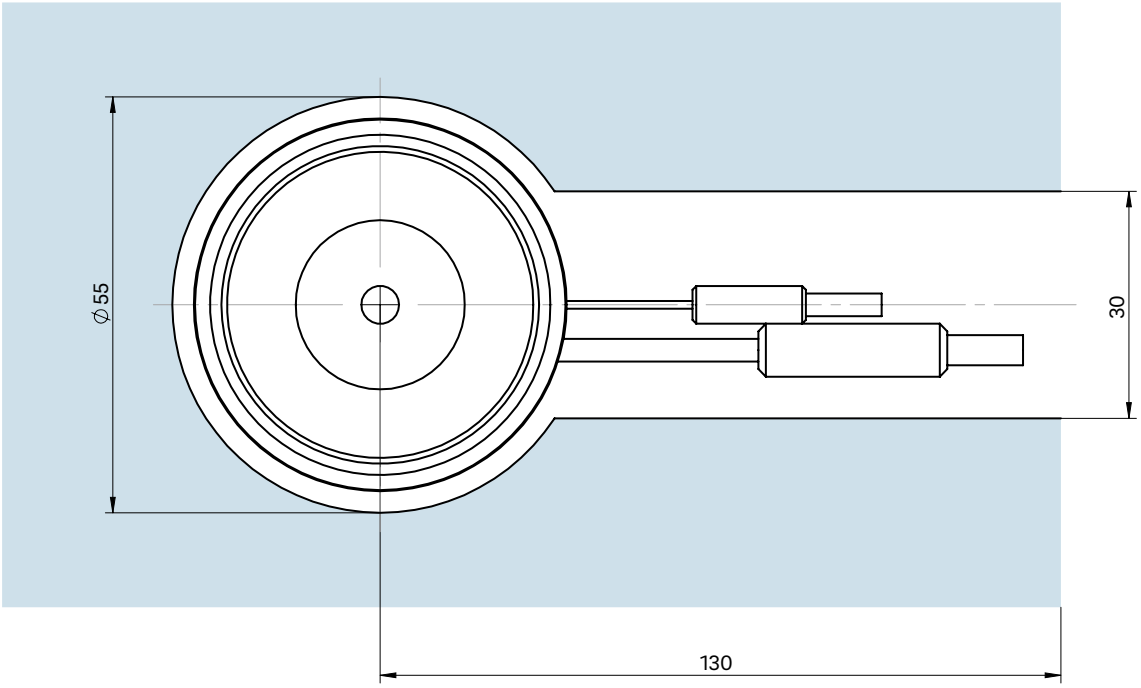
ΔT (°C)	100	150	200	250	300	350
K (mm)	0.06	0.08	0.09	0.11	0.13	0.16

WEBCODE 43010

INSTALLATION



Cross-section A-A: Cutout for heated adapter AHJ5



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

Heated adapter type AHJ8

Heated adapter for use of OktaFlow nozzle type 8OHT as a single nozzle

TECHNICAL DATA

AHJ8

Operating voltage	230 V_{AC}*
Adapter	straight (G)/radius (R)/ angle (W)

Can be used with nozzle type/Delivery times:

Type	8OHT
AHJ8	■

*Volts alternating current

■ *Short delivery time*

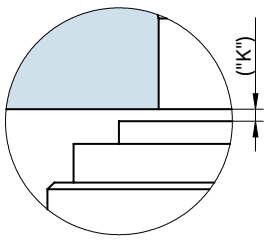
NOTE

Recommended for processing thermally sensitive plastics.

Using a heated adapter, the nozzle types specified above can also be used as single nozzles.

Specify the machine nozzle version when ordering.

Detail "Z"

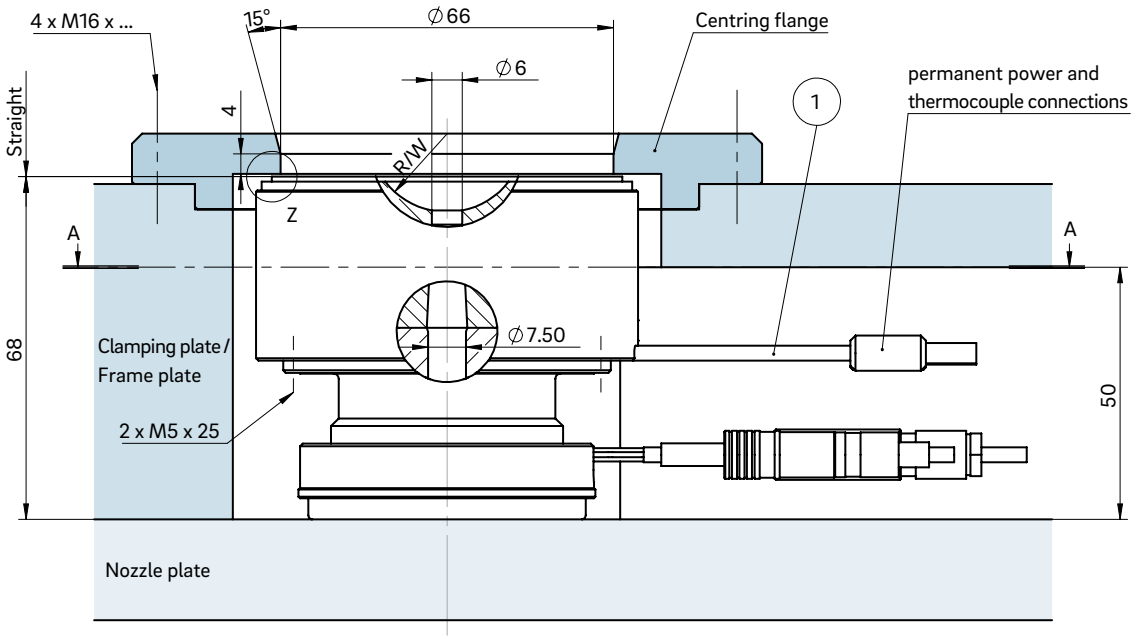


Dimension "K" required for heat expansion is to be ensured by grinding the locating ring! Determine the difference between the height of the nozzle (with adapter) and the height of the structure when installed! ΔT specifies the temperature differential between the processing temperature and the mould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

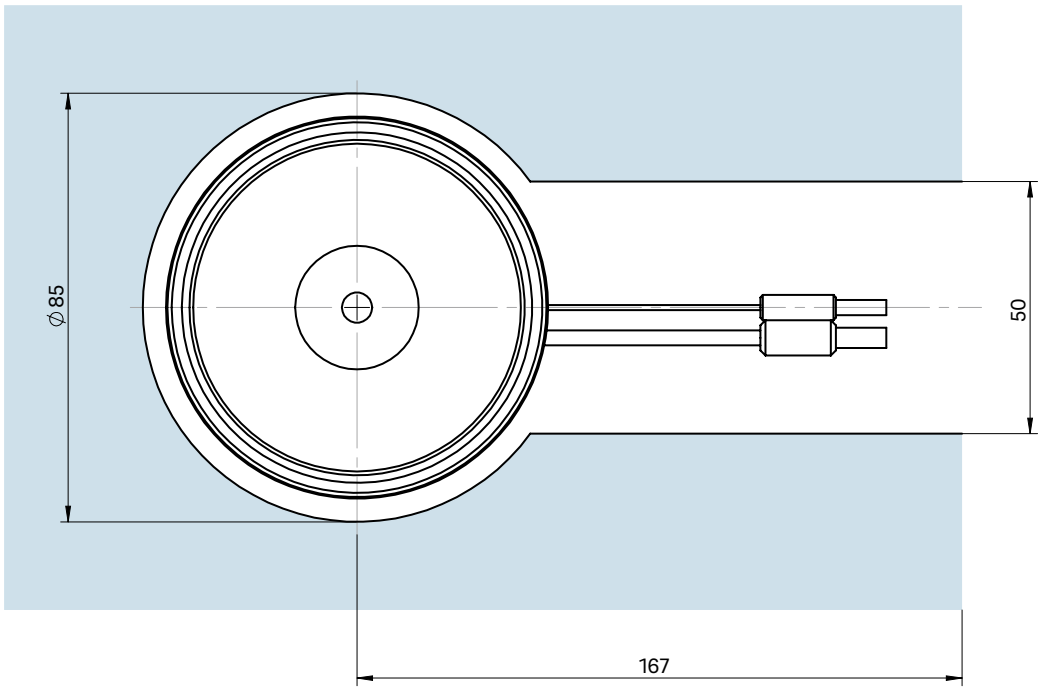
ΔT (°C)	100	150	200	250	300	350
K (mm)	0.04	0.08	0.12	0.16	0.20	0.25

WEBCODE
43020

INSTALLATION



Cross-section A-A: Cutout for heated adapter AHJ8



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