



**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 controller 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



4.3 Connecting elements

HEATED ADAPTERS

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AHJ5/6

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

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AHJ8

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

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Heated adapter type AHJ5/6

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	■	■	
AHJ6			■

*Volts alternating current

■ Short delivery time

NOTE

Recommended for processing thermally sensitive plastics.

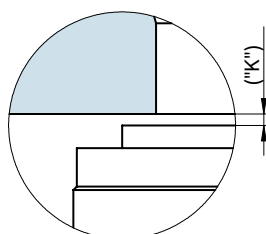
Using a heated adapter, the nozzle types specified above can also be used as single nozzles.

Specify the machine nozzle version when ordering.



Type	Heated adapter (mm)		Installation (mm)	
	Ød1	Ød2	A	B
			Strength class 12.9 (DIN EN ISO 4762) Screw size	Strength class 12.9 (DIN EN ISO 4762) Screw size
AHJ5	5.0	4.8	4 x M10 x ...	2 x M5 x 16
AHJ6	6.0	6.0	4 x M12 x ...	2 x M5 x 16

Detail "Z"



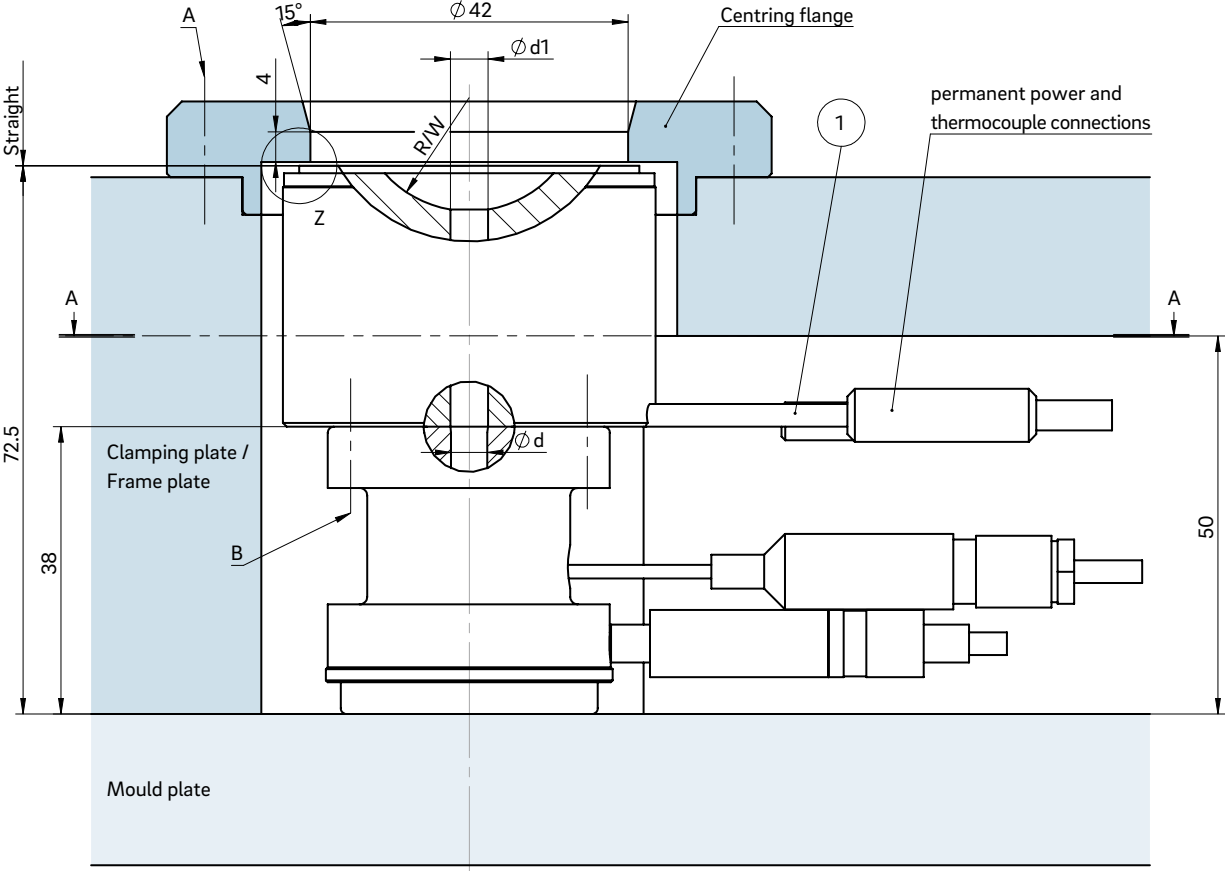
Dimension "K" required for heat expansion is to be ensured by grinding the locating ring! Determine the difference between the height of the nozzle (with adapter) and the height of the structure when installed! ΔT specifies the temperature differential between the processing temperature and the mould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

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

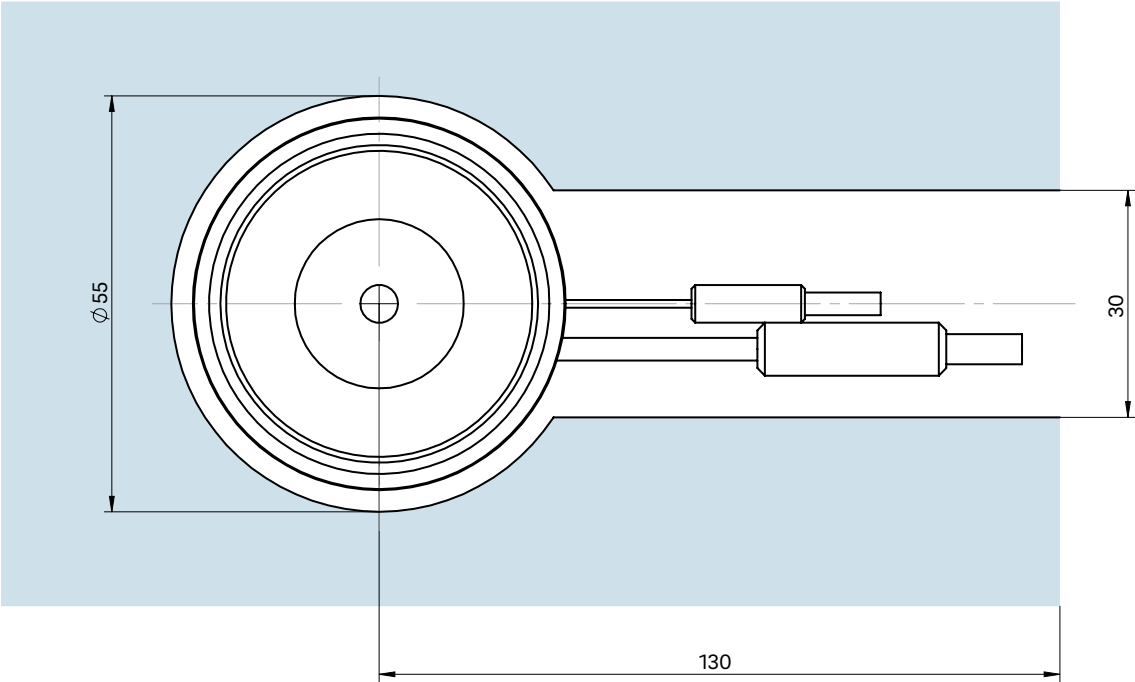
WEBCODE
43010



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

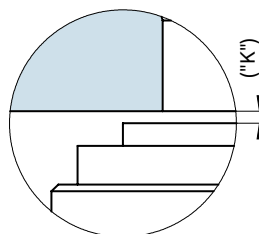
Recommended for processing thermally sensitive plastics.

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"



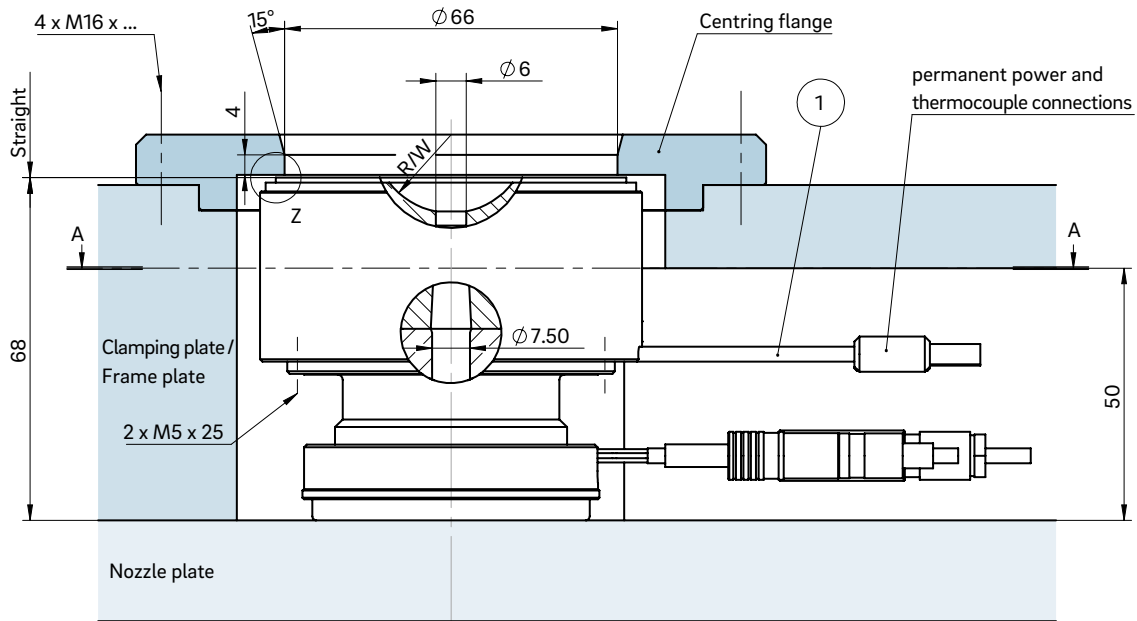
Dimension "K" required for heat expansion is to be ensured by grinding the locating ring! Determine the difference between the height of the nozzle (with adapter) and the height of the structure when installed! ΔT specifies the temperature differential between the processing temperature and the mould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

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

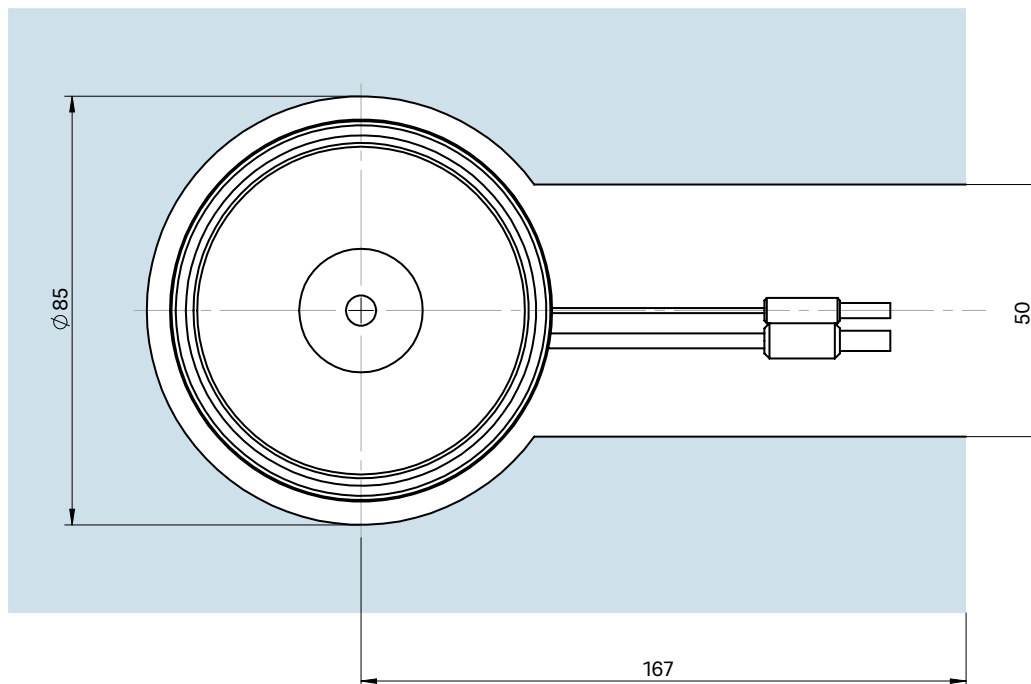




INSTALLATION



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