GÜNTHER®
HOT RUNNER TECHNOLOGY

Open hot runner systems

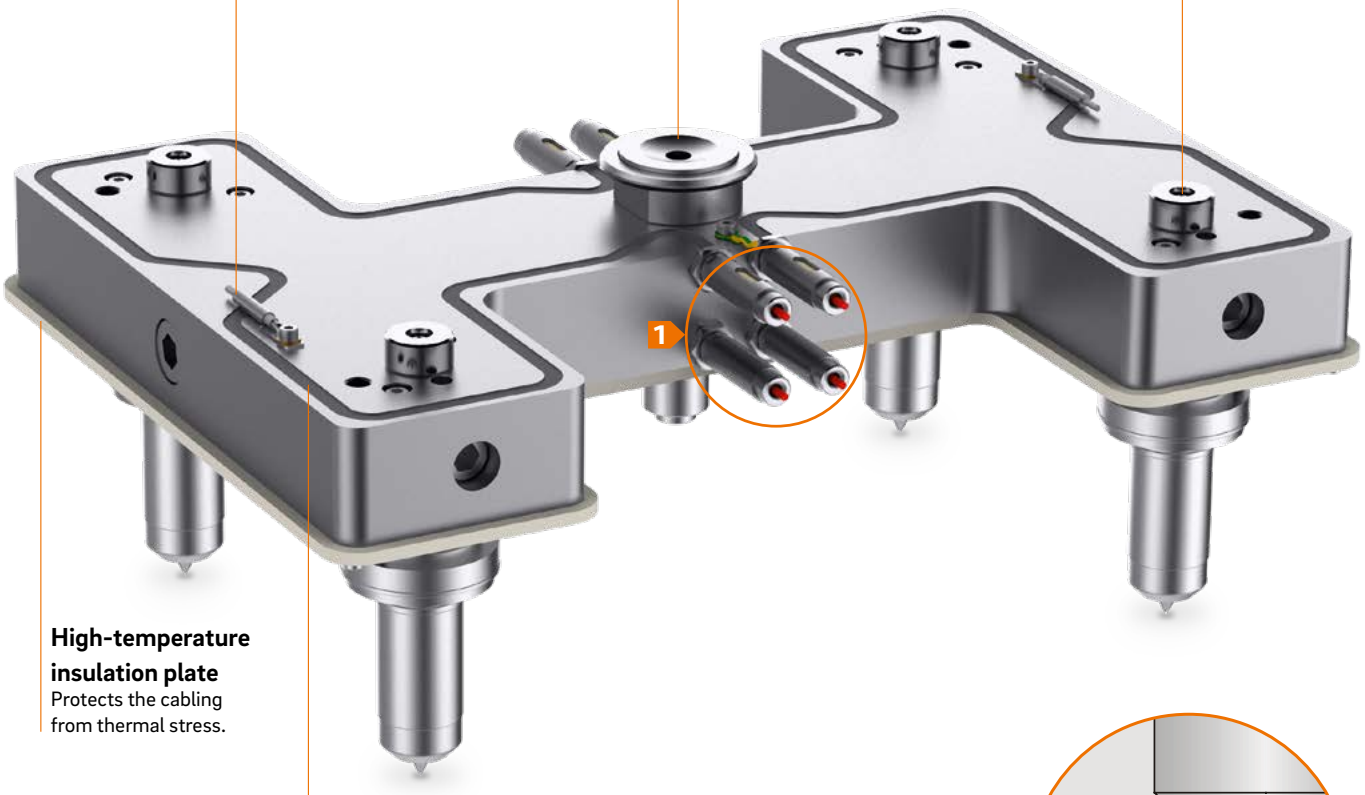
Manifold systems

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

Connection piece
Heating is carried out via manifolds or separate heaters.

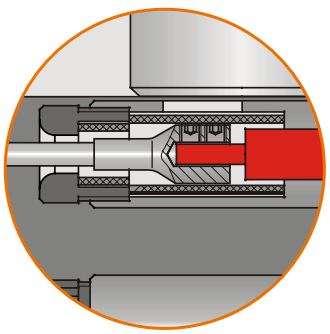
Contact thermocouple
Guarantees precise temperature measurement.

Pressure pieces
With minimal heat conductivity.



High-temperature insulation plate
Protects the cabling from thermal stress.

Pressed-in heaters on both sides
Guarantees optimum heat transfer to the manifold and thus homogeneous temperature distribution.



1 **Protected heating connections**

HOMOGENEOUS TEMPERATURE MANAGEMENT THANKS TO PRESSED-IN HEATERS

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

PROTECTED POWER PLUG CONNECTIONS – HIGHLY MAINTENANCE FRIENDLY

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

THE ADVANTAGES AT A GLANCE

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

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

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

Among other things, CADHOC® System Designer enables you to:
- Design nozzle sizes in an optimum way
- Select plastic types from a comprehensive list
- Make a direct configuration without any specifications of the processing parameters
- Make an application-based configuration with specifications of the processing parameters

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

WEBCODE 91890

RAPID SYSTEMS FROM GÜNTHER

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

WEBCODE 25120

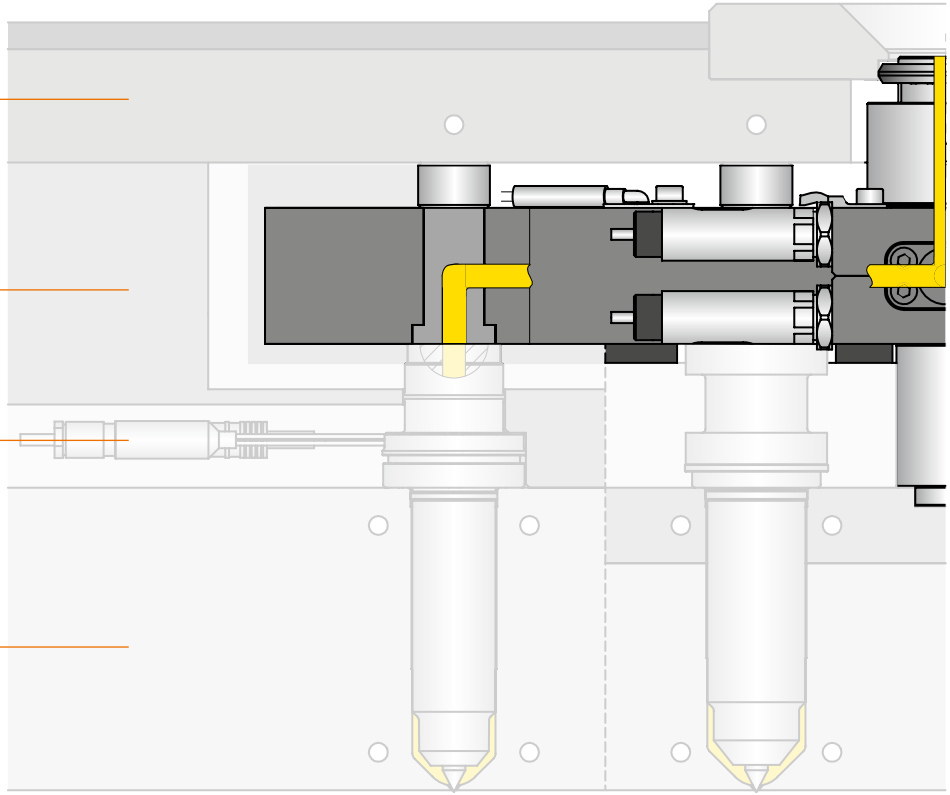
2.4 Hot runner manifolds/Rapid systems

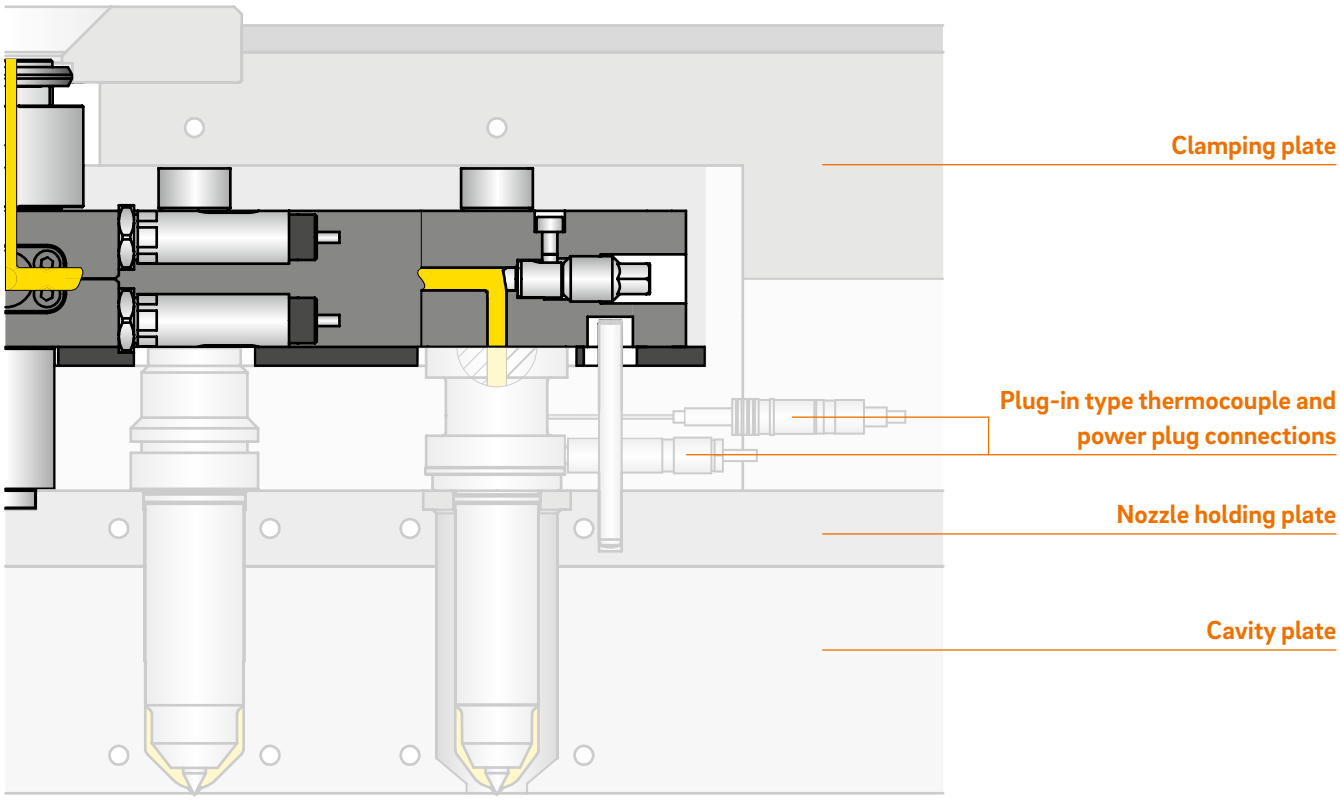
Manifolds

Rapid systems

Overview of overall design

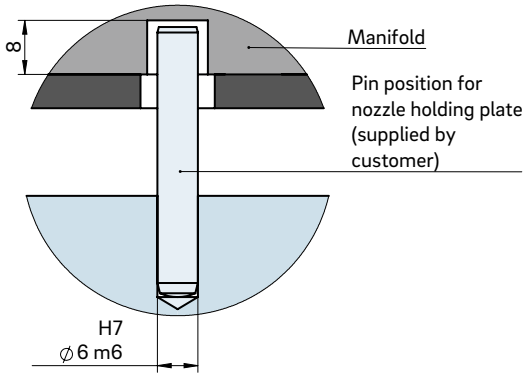
Hot runner manifold

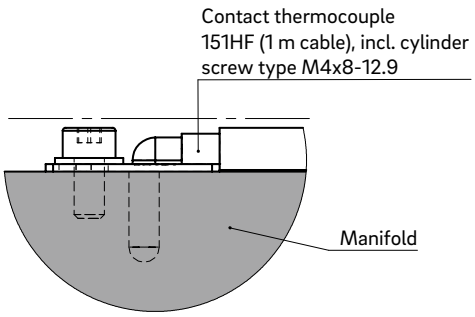


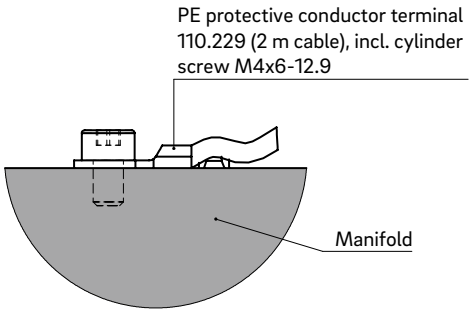

Clamping plate
Plug-in type thermocouple and power plug connections
Nozzle holding plate
Cavity plate

Straight manifold type GCP

Manifold length (VL) 160-360







TECHNICAL DATA

GCP VL 160–360

Manifold height (VH)	36 mm
Operating voltage	230 V_{AC}*

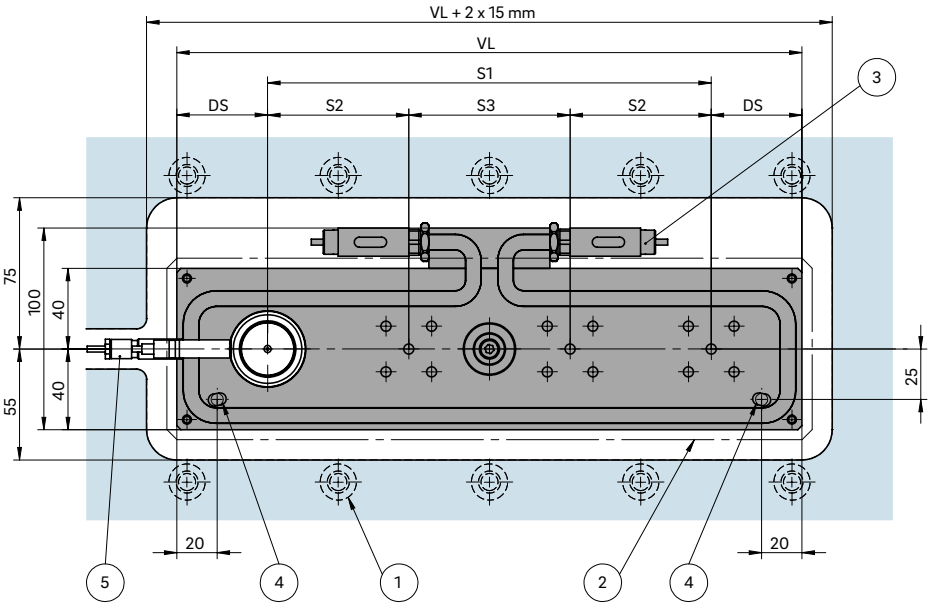
Manifold length (VL)	160	210	260	310	360
Control circuits	1	1	1	1	1
Power (watts) per control circuit	2 × 750	2 × 950	2 × 1000	2 × 1350	2 × 1500

*Volts alternating current

WEBCODE
25010

INSTALLATION

Nozzle tip view

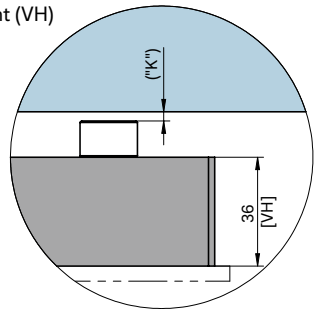


DS Edge distance:
a. min. 35.0 with nozzle size ≤ 6
b. min. 45.0 with nozzle size 8

S1 Largest pitch (max. pitch)
S2 Pitch between the nozzles (min./max. pitch)
S3 Pitch between the nozzles, taking connecting element and spacer into account (min./max. pitch)

① Screw connection close to manifold
② High-temperature insulation plate
③ Heating connections
④ Possible pin position
⑤ Opening and plug location dependent upon nozzle type

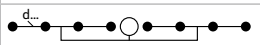
Manifold height (VH)



Dimension "K" required for heat expansion is to be ensured by grinding the pressure piece (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

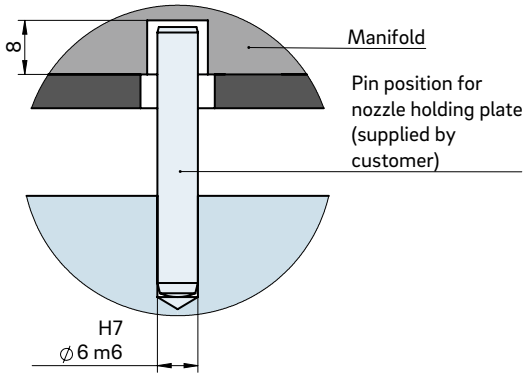
Design examples/Balancing

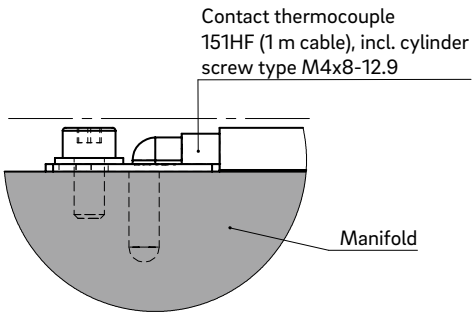
Type		Melt channel Ød in mm	Number of drops
GCP1B		≤ 10	1
GCP2B		≤ 10	2
GCP3–		≤ 10	3
GCP4B		≤ 8	4
GCP8T		≤ 8	8

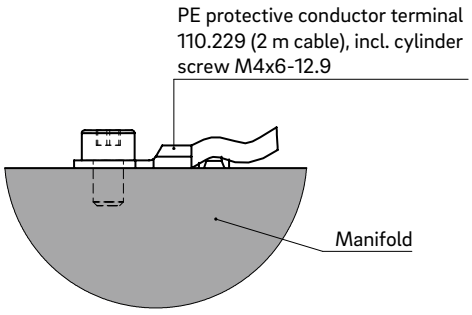
B = balanced T = partially balanced – = not balanced

Straight manifold type GCP

Manifold length (VL) 410-510







TECHNICAL DATA

GCP VL 410-510

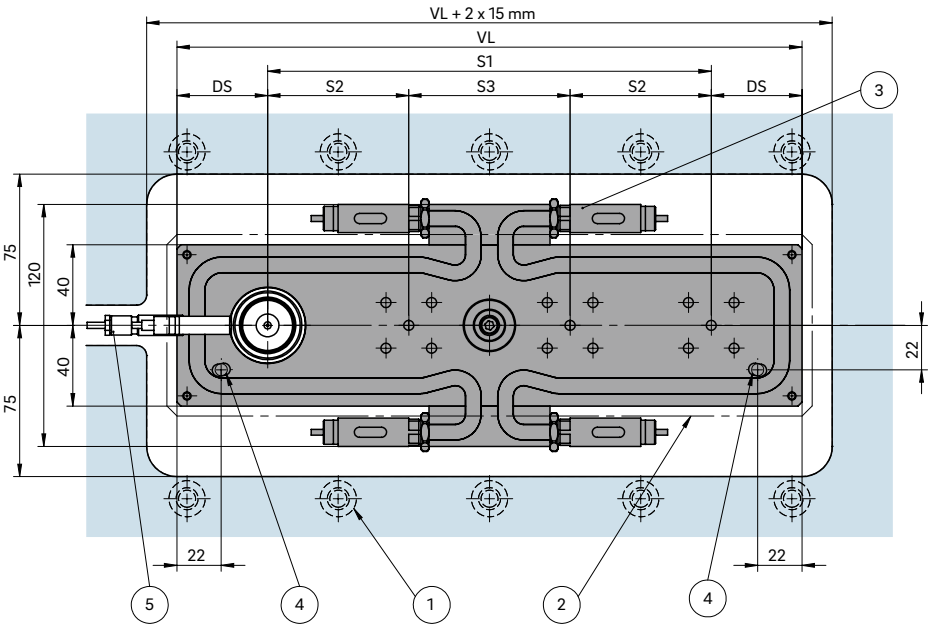
Manifold height (VH)	36 mm		
Operating voltage	230 V_{AC}*		
Manifold length (VL)	410	460	510
Control circuits	2	2	2
Power (watts) per control circuit	2 × 850	2 × 950	2 × 1000

*Volts alternating current

WEBCODE
25020

INSTALLATION

Nozzle tip view

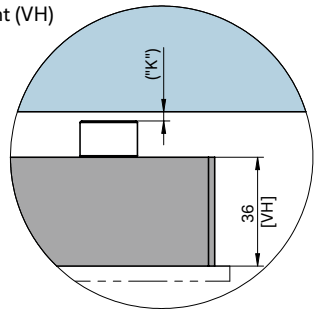


DS Edge distance:
a. min. 35.0 with nozzle size ≤ 6
b. min. 45.0 with nozzle size 8

S1 Largest pitch (max. pitch)
S2 Pitch between the nozzles (min./max. pitch)
S3 Pitch between the nozzles, taking connecting element and spacer into account (min./max. pitch)

① Screw connection close to manifold
② High-temperature insulation plate
③ Heating connections
④ Possible pin position
⑤ Opening and plug location dependent upon nozzle type

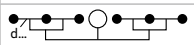
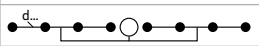
Manifold height (VH)



Dimension "K" required for heat expansion is to be ensured by grinding the pressure piece (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

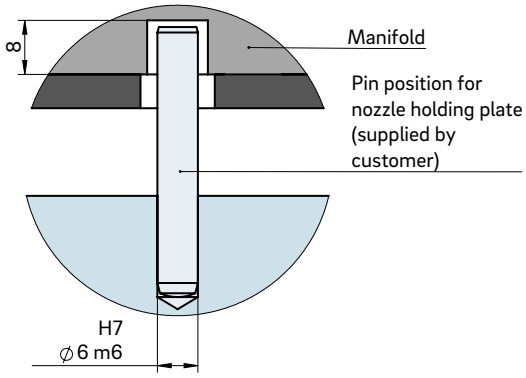
Design examples/Balancing

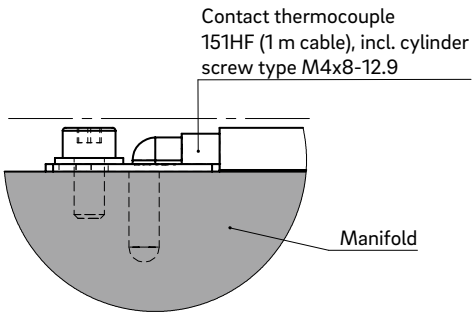
Type		Melt channel Ød in mm	Number of drops
GCP1B		≤ 10	1
GCP2B		≤ 10	2
GCP3–		≤ 10	3
GCP4B		≤ 8	4
GCP6T		≤ 8	6
GCP8T		≤ 8	8

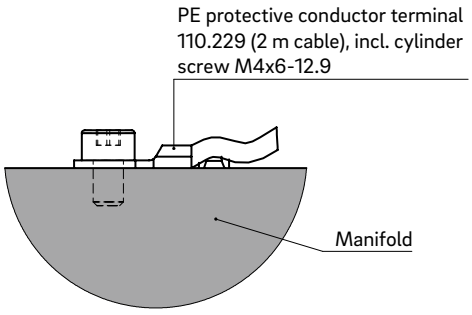
B = balanced T = partially balanced – = not balanced

Straight manifold type GDP

Manifold length (VL) 160-360







TECHNICAL DATA

GDP VL 160-360

Manifold height (VH)	46 mm
Operating voltage	230 V_{AC}*

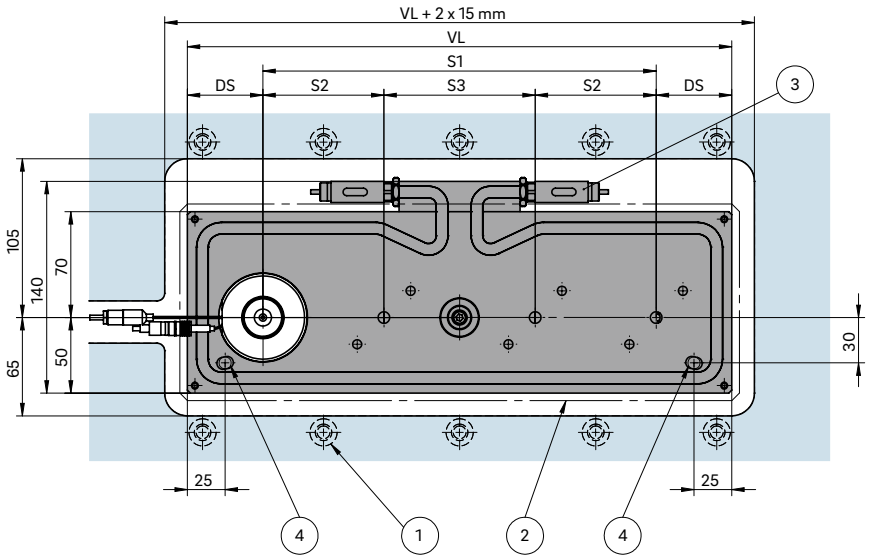
Manifold length (VL)	160	210	260	310	360
Control circuits	1	1	1	1	1
Power (watts) per control circuit	2 × 750	2 × 950	2 × 1000	2 × 1350	2 × 1500

*Volts alternating current

WEBCODE
25030

INSTALLATION

Nozzle tip view

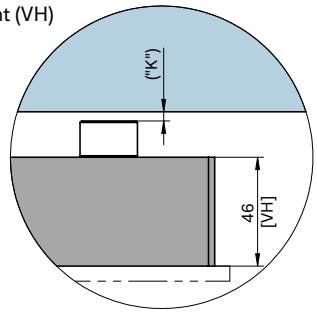


DS Edge distance:
a. min. 35.0 with nozzle size ≤ 6
b. min. 45.0 with nozzle size 8 or 10
c. min. 50.0 with nozzle size ≥ 12

S1 Largest pitch (max. pitch)
S2 Pitch between the nozzles (min./max. pitch)
S3 Pitch between the nozzles, taking connecting element and spacer into account (min./max. pitch)

① Screw connection close to manifold
② High-temperature insulation plate
③ Heating connections
④ Possible pin position
⑤ Opening and plug location dependent upon nozzle type

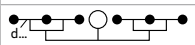
Manifold height (VH)



Dimension "K" required for heat expansion is to be ensured by grinding the pressure piece (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
46 mm	K (mm)	0.033	0.078	0.124	0.170	0.218	0.264

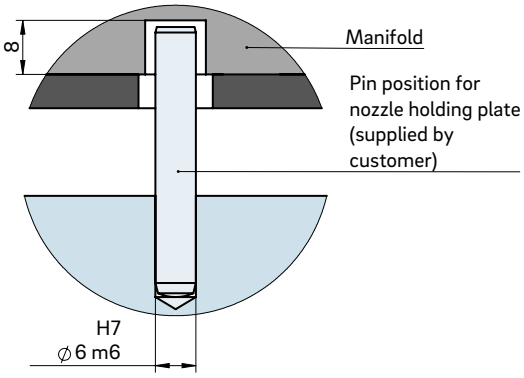
Design examples/Balancing

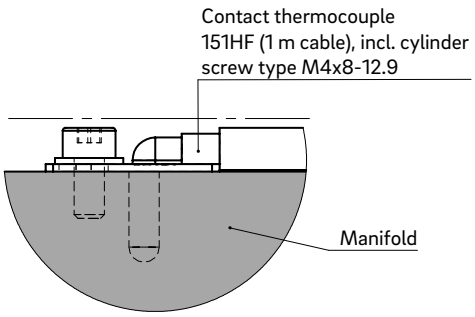
Type		Melt channel Ød in mm	Number of drops
GDP1B		≥ 12 to 16	1
GDP2B		≥ 12 to 16	2
GDP3–		≥ 12 to 16	3
GDP3T		≤ 6	3
GDP4B		≤ 12 to 16	4
GDP6T		≤ 8	6

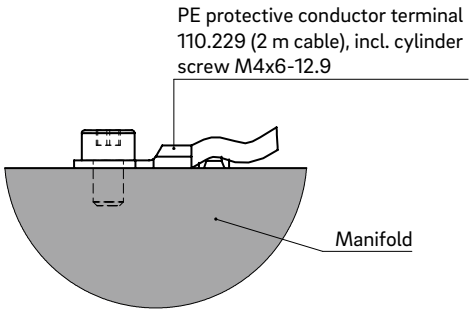
B = balanced T = partially balanced – = not balanced

Straight manifold type GDP

Manifold length (VL) 410-510







TECHNICAL DATA

GDP VL 410-510

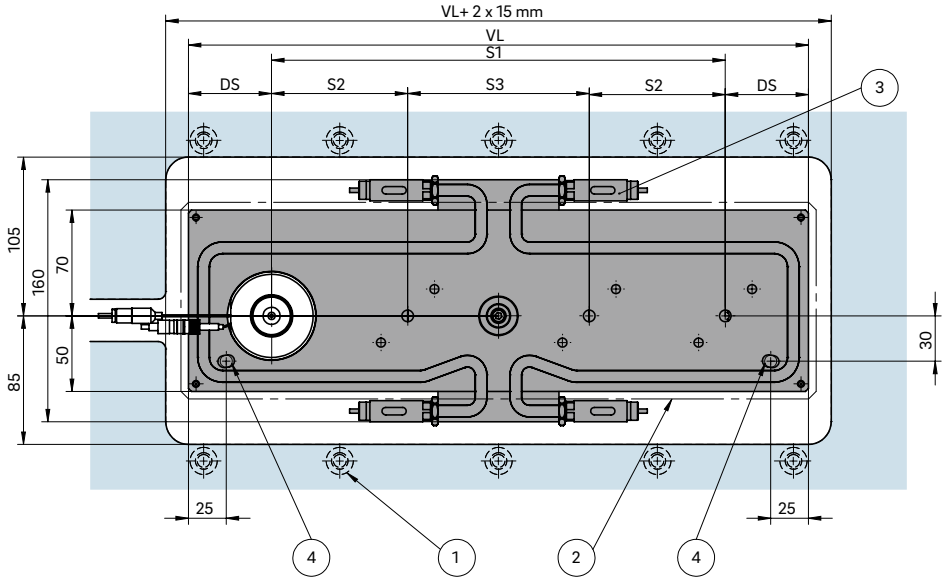
Manifold height (VH)	46 mm		
Operating voltage	230 V_{AC}*		
Manifold length (VL)	410	460	510
Control circuits	2	2	2
Power (watts) per control circuit	2 × 850	2 × 950	2 × 1000

*Volts alternating current

WEBCODE
25040

INSTALLATION

Nozzle tip view

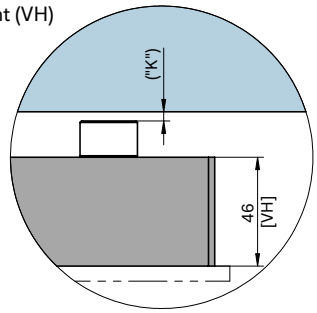


DS Edge distance:
a. min. 35.0 with nozzle size ≤ 6
b. min. 45.0 with nozzle size 8 or 10
c. min. 50.0 with nozzle size ≥ 12

S1 Largest pitch (max. pitch)
S2 Pitch between the nozzles (min./max. pitch)
S3 Pitch between the nozzles, taking connecting element and spacer into account (min./max. pitch)

① Screw connection close to manifold
② High-temperature insulation plate
③ Heating connections
④ Possible pin position
⑤ Opening and plug location dependent upon nozzle type

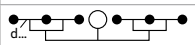
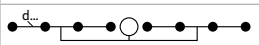
Manifold height (VH)



Dimension "K" required for heat expansion is to be ensured by grinding the pressure piece (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!

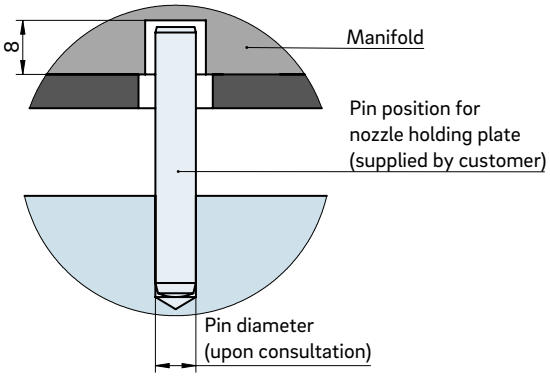
VH	ΔT (°C)	100	150	200	250	300	350
46 mm	K (mm)	0.033	0.078	0.124	0.170	0.218	0.264

Design examples/Balancing

Type		Melt channel Ød in mm	Number of drops
GDP1B		≥ 12 to 16	1
GDP2B		≥ 12 to 16	2
GDP3–		≥ 12 to 16	3
GDP3T		≤ 6	3
GDP4B		≥ 12 to 16	4
GDP6T		≤ 8	6
GDP8T		≥ 12 to 16	8

B = balanced T = partially balanced – = not balanced

H-manifold type HCP/HDP/HEP



TECHNICAL DATA

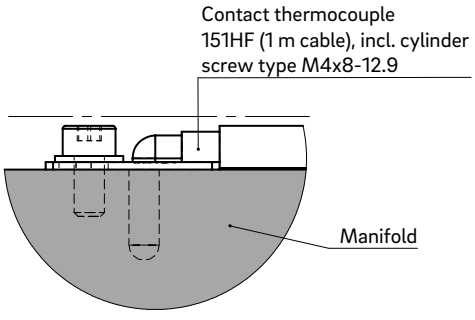
HCP/HDP/HEP

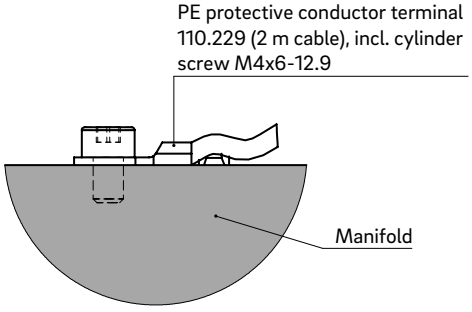
Manifold height (VH)	**HCP:** 36 mm **HDP:** 46 mm **HEP:** 56 mm
Operating voltage	230 V_{AC}*
Manifold length (VL)	H + 2 × DS
Manifold width (VB)	B + 2 × DS

The heating output of each control circuit is calculated individually.

*Volts alternating current

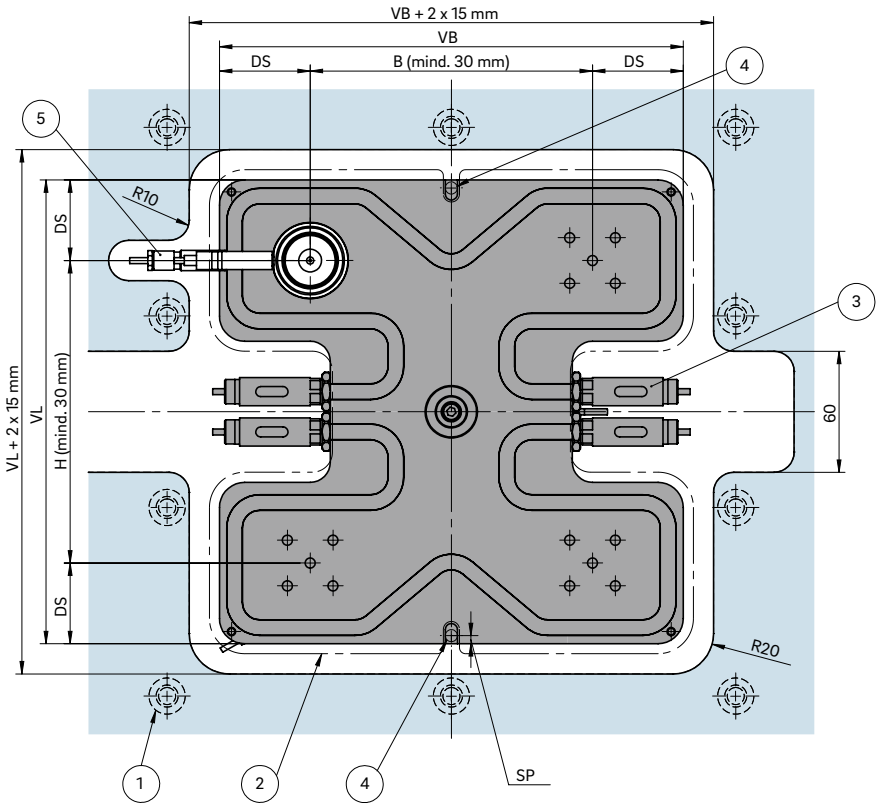
WEBCODE
25050





INSTALLATION

Nozzle tip view

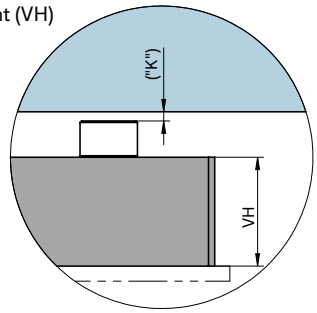


DS Edge distance:
a. min. 35.0 with nozzle size ≤ 6
b. min. 45.0 with nozzle size 8 or 10
c. min. 50.0 with nozzle size ≥ 12

H Pitch between the nozzles
B Pitch between the nozzles

① Screw connection close to manifold
② High-temperature insulation plate
③ Heating connections
④ Possible pin position
"SP" = d/2 + 1 mm
⑤ Opening and plug location
dependent upon nozzle type

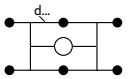
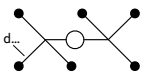
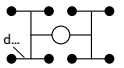
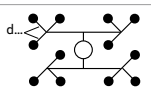
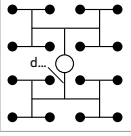
Manifold height (VH)



Dimension "K" required for heat expansion is to be ensured by grinding the pressure piece (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

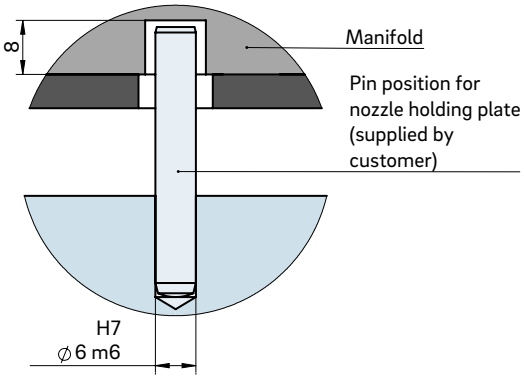
Design examples/Balancing

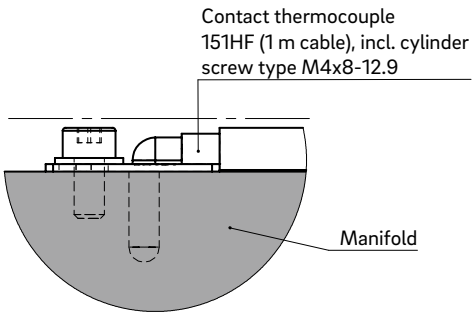
Type		HCP = 36 (VH) Melt channel Ød in mm	HDP = 46 (VH) Melt channel Ød in mm	HEP = 56 (VH) Melt channel Ød in mm	Number of drops
H_P4B		≤ 10	≥ 12 to 16	> 16	4
H_P6T		≤ 10	≥ 12 to 16	> 16	6
H_P6B			≤ 8	≤ 10	6
H_P8B		≤ 10	≥ 12 to 16	> 16	8
H_P12B			≤ 8	≤ 10	12
H_P16B		≤ 10	≥ 12 to 16	> 16	16

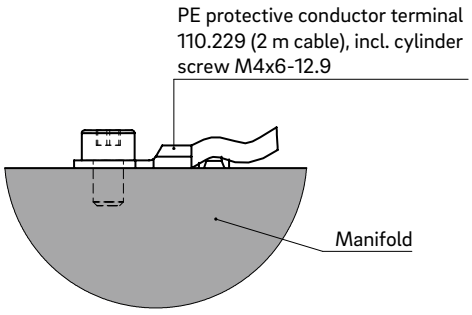
B = balanced T = partially balanced

Cross manifold type KCP4/KDP4

Manifold length (VL) 135-165







TECHNICAL DATA

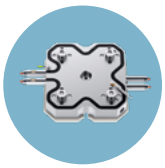
KCP4/KDP4 135/165

Manifold height (VH)	**KCP:** 36 mm **KDP:** 46 mm
Operating voltage	230 V_{AC}*

Manifold length (VL)	135	165
Pin position (SP)	63.5	68.0
Control circuits	1	1
Power (watts) per control circuit	2 × 850	2 × 1000

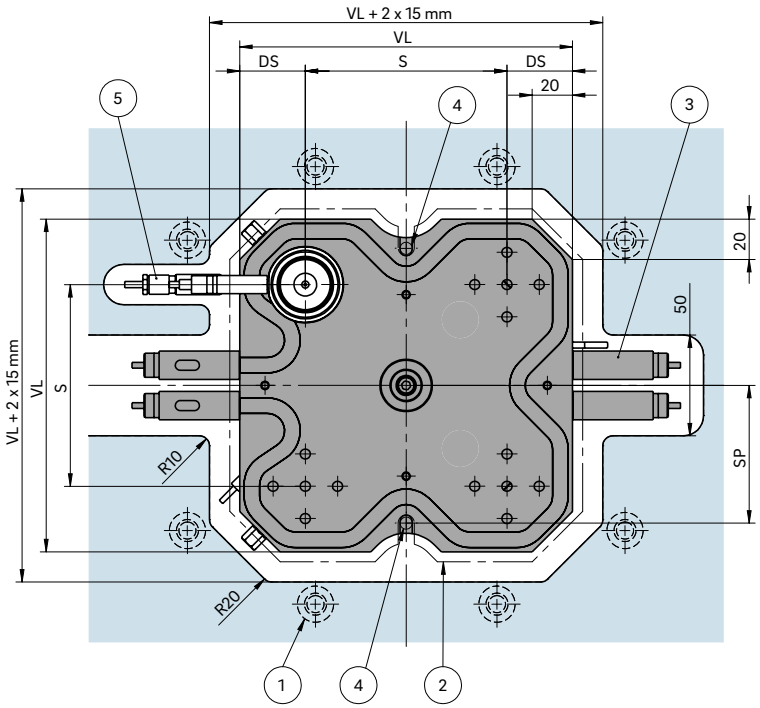
*Volts alternating current

WEBCODE
25060



INSTALLATION

Nozzle tip view

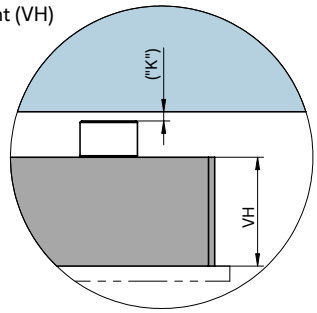


DS Edge distance:
a. min. 35.0 with nozzle size ≤ 6
b. min. 45.0 with nozzle size 8 or 10
c. min. 50.0 with nozzle size ≥ 12

S Pitch between the nozzles

① Screw connection close to manifold
② High-temperature insulation plate
③ Heating connections
④ Possible pin position
⑤ Opening and plug location dependent upon nozzle type

Manifold height (VH)



Dimension "K" required for heat expansion is to be ensured by grinding the pressure piece (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

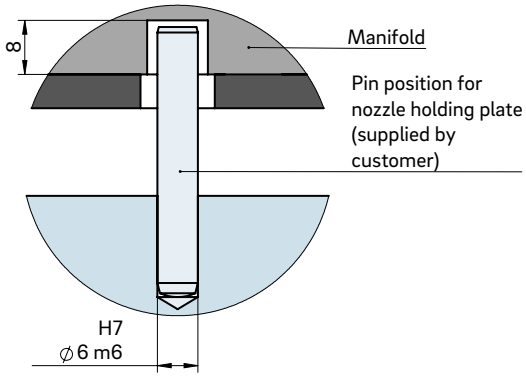
Design examples/Balancing

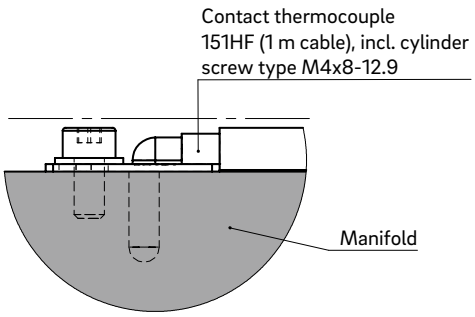
Type		KCP = 36 (VH) Melt channel Ød in mm	KDP = 46 (VH) Melt channel Ød in mm	Number of drops
K_P4B		≤ 10	≥ 12 to 16	4
		DS min. 35	DS min. 50	

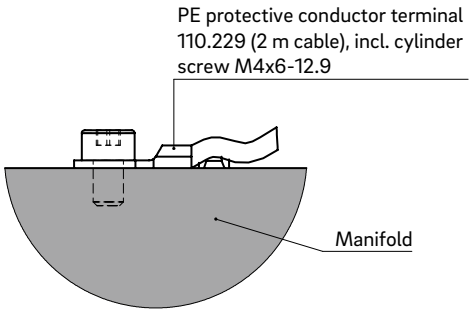
B = balanced

Cross manifold type KCP4/KDP4

Manifold length (VL) 180







TECHNICAL DATA

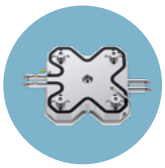
KCP4/KDP4 180

Manifold height (VH)	**KCP:** 36 mm **KDP:** 46 mm
Operating voltage	230 V_{AC}*

Manifold length (VL)	180
Pin position (SP)	59.0
Control circuits	1
Power (watts) per control circuit	2 × 1000

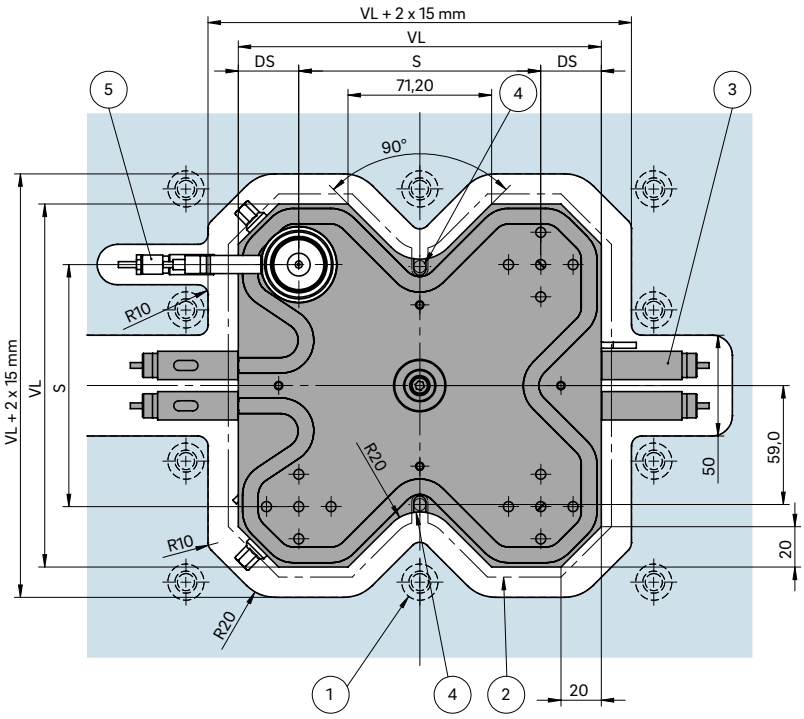
*Volts alternating current

WEBCODE
25070



INSTALLATION

Nozzle tip view

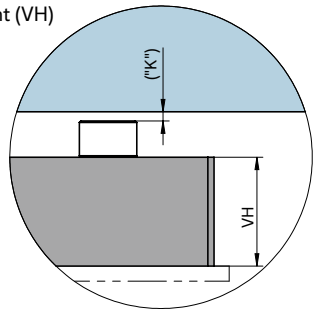


DS Edge distance:
a. min. 35.0 with nozzle size ≤ 6
b. min. 45.0 with nozzle size 8 or 10
c. min. 50.0 with nozzle size ≥ 12

S Pitch between the nozzles

① Screw connection close to manifold
② High-temperature insulation plate
③ Heating connections
④ Possible pin position
⑤ Opening and plug location dependent upon nozzle type

Manifold height (VH)



Dimension "K" required for heat expansion is to be ensured by grinding the pressure piece (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

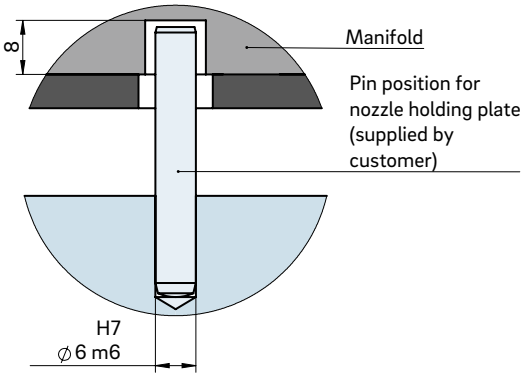
Design examples/Balancing

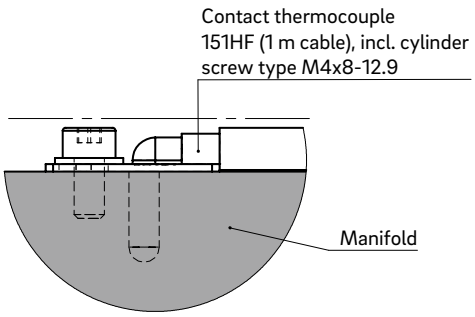
Type		KCP = 36 (VH) Melt channel Ød in mm	KDP = 46 (VH) Melt channel Ød in mm	Number of drops
K_P4B		≤ 10	≥ 12 to 16	4
		DS min. 35	DS min. 50	

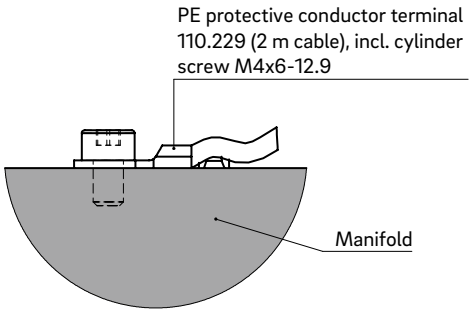
B = balanced

Cross manifold type KCP4/KDP4

Manifold length (VL) 210







TECHNICAL DATA

KCP4/KDP4 210

Manifold height (VH)	**KCP:** 36 mm **KDP:** 46 mm
Operating voltage	230 V_{AC}*

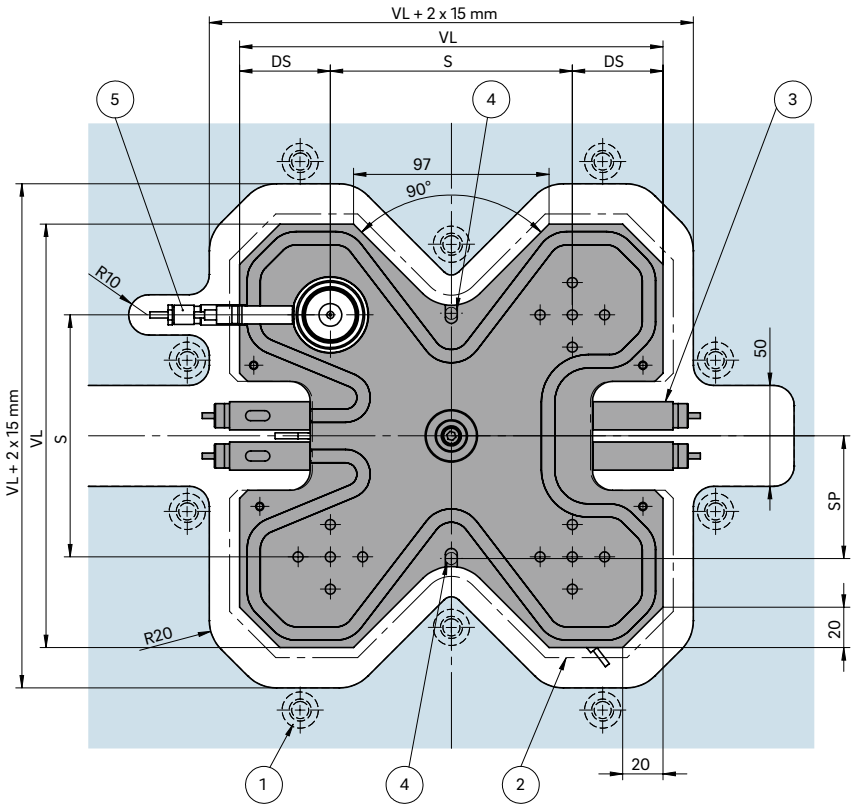
Manifold length (VL)	210
Pin position (SP)	60.8
Control circuits	1
Power (watts) per control circuit	2 × 1000

*Volts alternating current

WEBCODE
25080

INSTALLATION

Nozzle tip view

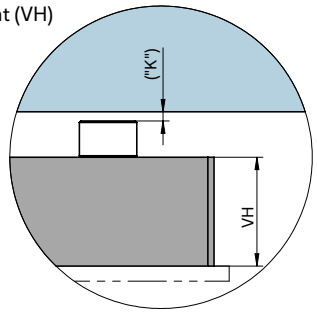


DS Edge distance:
a. min. 35.0 with nozzle size ≤ 6
b. min. 45.0 with nozzle size 8 or 10
c. min. 50.0 with nozzle size ≥ 12

S Pitch between the nozzles

① Screw connection close to manifold
② High-temperature insulation plate
③ Heating connections
④ Possible pin position
⑤ Opening and plug location dependent upon nozzle type

Manifold height (VH)



Dimension "K" required for heat expansion is to be ensured by grinding the pressure piece (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

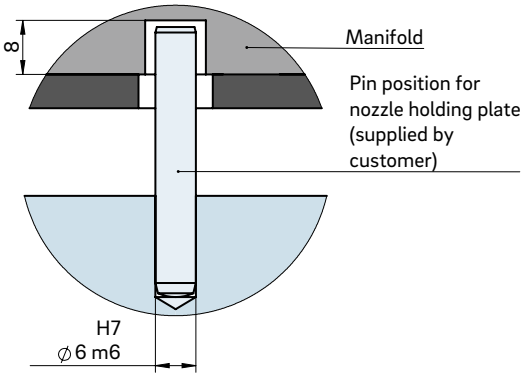
Design examples/Balancing

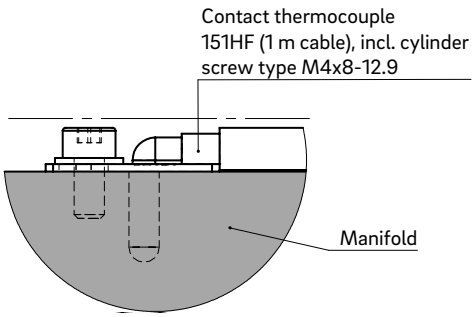
Type		KCP = 36 (VH) Melt channel Ød in mm	KDP = 46 (VH) Melt channel Ød in mm	Number of drops
K_P4B		≤ 10	≥ 12 to 16	4
		DS min. 35	DS min. 50	

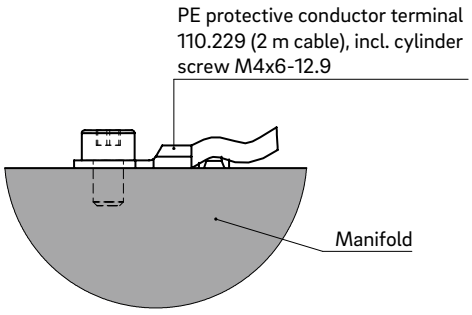
B = balanced

Cross manifold type KCP4/KDP4

Manifold length (VL) 240/270/300







TECHNICAL DATA

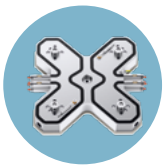
KCP4/KDP4 240/270/300

Manifold height (VH)	**KCP:** 36 mm **KDP:** 46 mm
Operating voltage	230 V_{AC}*

Manifold length (VL)	240	270	300
Pin position (SP)	81.0	87.5	101.0
Dimension B	127.0	156.6	187.0
Control circuits	2	2	2
Power (watts) per control circuit	2 × 1000	2 × 1350	2 × 1500

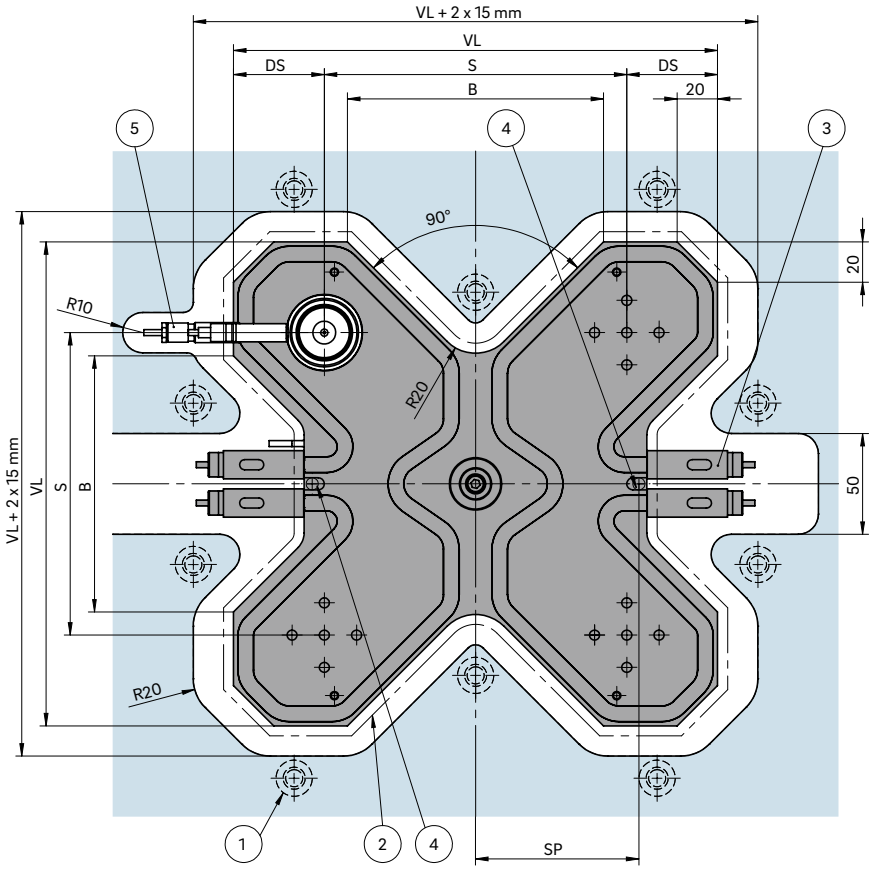
*Volts alternating current

WEBCODE
25090



INSTALLATION

Nozzle tip view

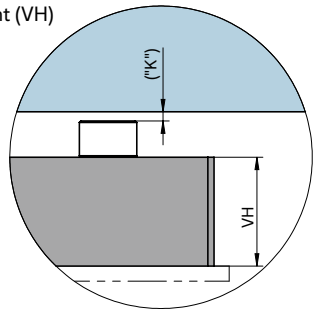


DS Edge distance:
a. min. 35.0 with nozzle size ≤ 6
b. min. 45.0 with nozzle size 8 or 10
c. min. 50.0 with nozzle size ≥ 12

S Pitch between the nozzles

① Screw connection close to manifold
② High-temperature insulation plate
③ Heating connections
④ Possible pin position
⑤ Opening and plug location dependent upon nozzle type

Manifold height (VH)



Design examples/Balancing

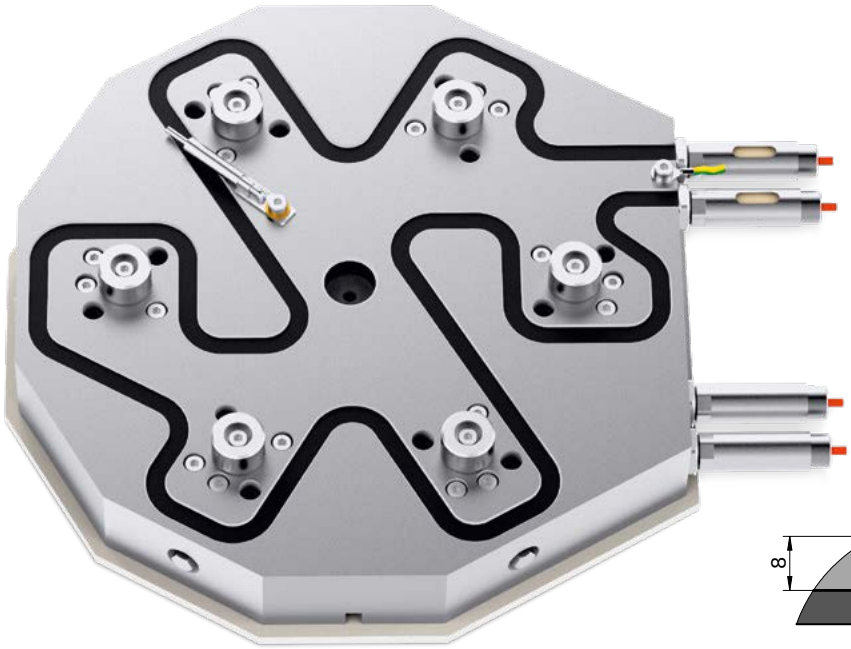
Type		KCP = 36 (VH) Melt channel Ød in mm	KDP = 46 (VH) Melt channel Ød in mm	Number of drops
K_P4B		≤ 10	≥ 12 to 16	4
		DS min. 35	DS min. 50	

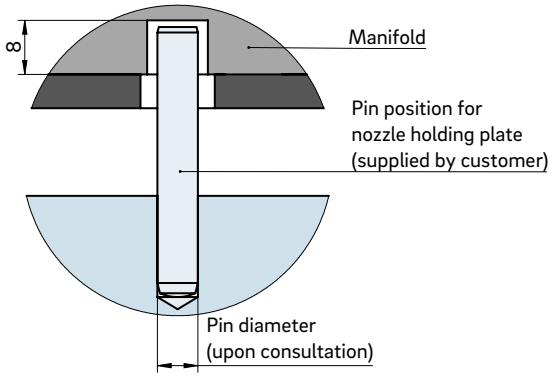
B = balanced

Dimension "K" required for heat expansion is to be ensured by grinding the pressure piece (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

Star manifold type SCP/SDP/SEP





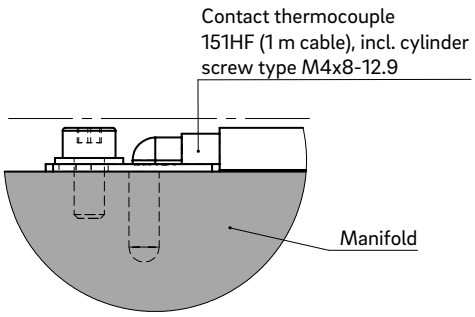
TECHNICAL DATA

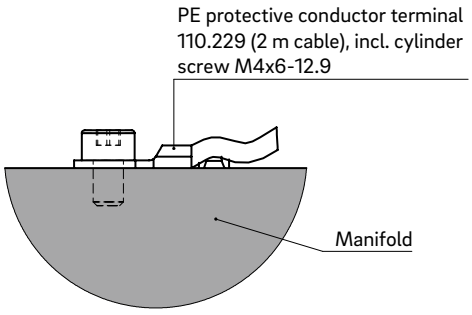
SCP/SDP/SEP

Manifold height (VH)	**SCP:** 36 mm **SDP:** 46 mm **SEP:** 56 mm
Operating voltage	230 V_{AC}*
Manifold length (VL)	ØTK + 2 × DS

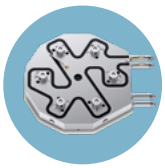
The heating output of each control circuit is calculated individually.

*Volts alternating current



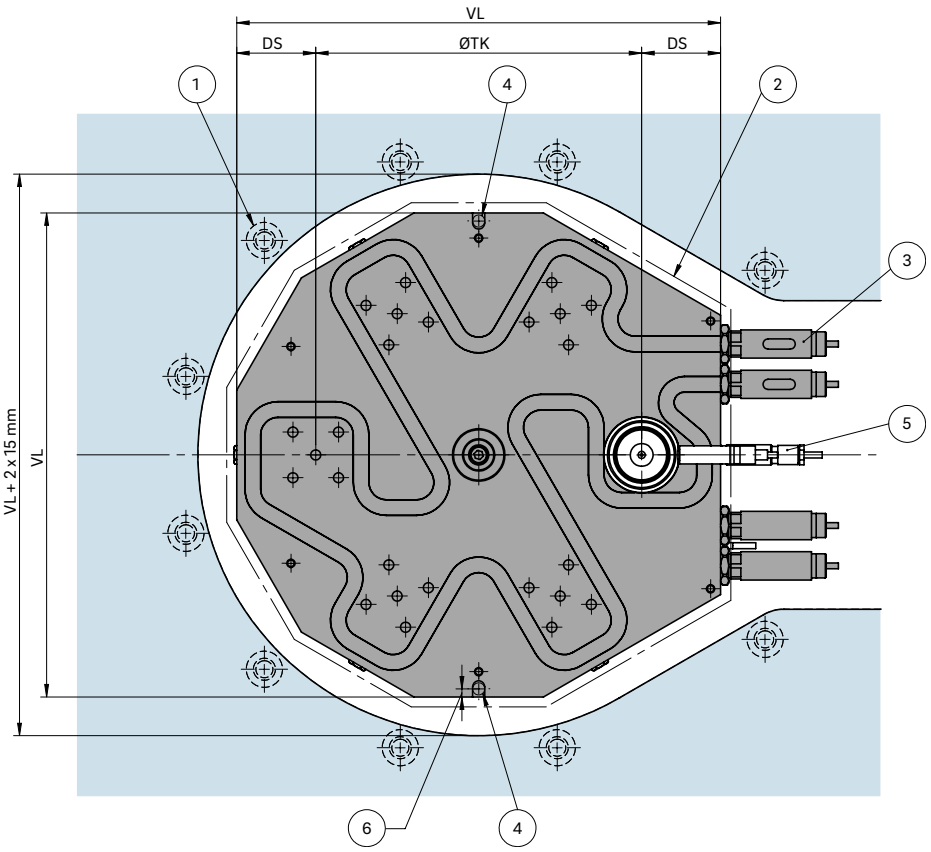


WEBCODE
25100



INSTALLATION

Nozzle tip view

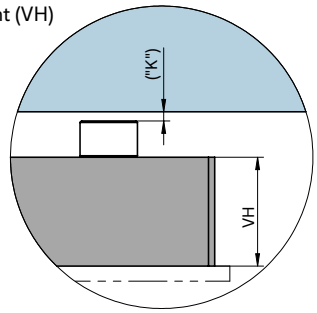


DS Edge distance:
a. min. 35.0 with nozzle size ≤ 6
b. min. 45.0 with nozzle size 8 or 10
c. min. 50.0 with nozzle size ≥ 12

ØTK Pitch circle diameter

① Screw connection close to manifold
② High-temperature insulation plate
③ Heating connections
④ Possible pin position
⑤ Opening and plug location dependent upon nozzle type

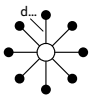
Manifold height (VH)



Dimension "K" required for heat expansion is to be ensured by grinding the pressure piece (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!

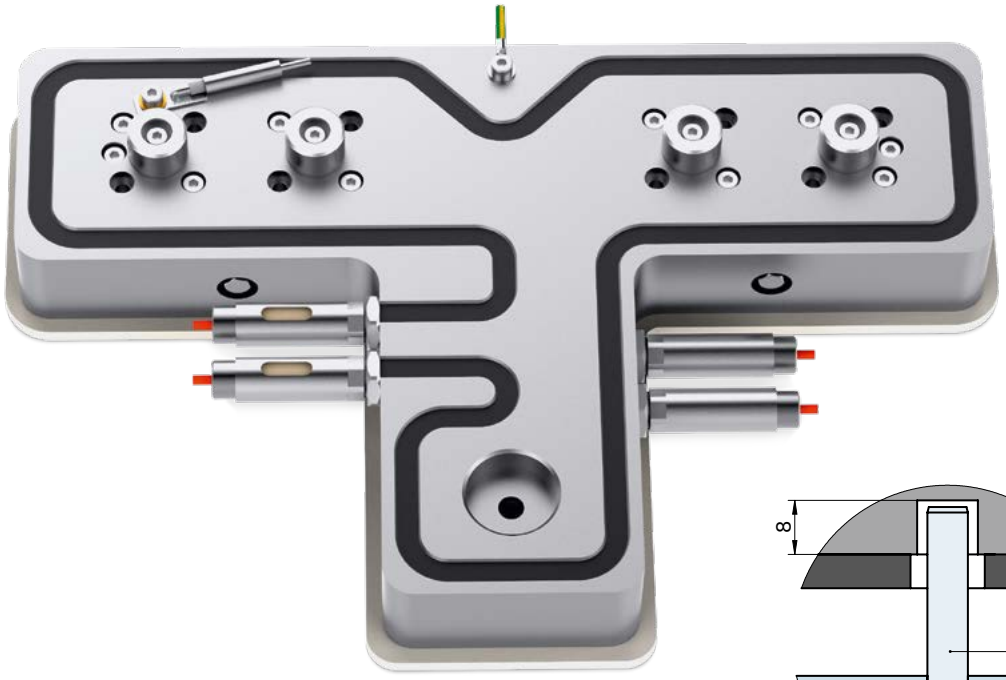
VH	ΔT (°C)	100	150	200	250	300	350
36 mm	K (mm)	0.021	0.059	0.098	0.137	0.177	0.217
46 mm	K (mm)	0.033	0.078	0.124	0.170	0.218	0.264
56 mm	K (mm)	0.046	0.097	0.150	0.203	0.258	0.311

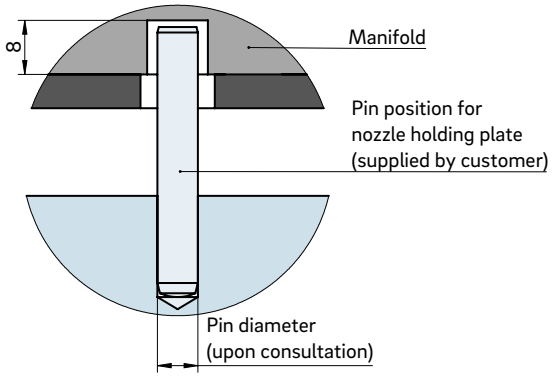
Design examples/Balancing

Type		SCP = 36 (VH) Melt channel Ød in mm	SDP = 46 (VH) Melt channel Ød in mm	SEP = 56 (VH) Melt channel Ød in mm	Number of drops
S_P3B		≤ 10	≥ 12 to 16	≥ 16	3
S_P6B			≤ 8	≤ 10	6
S_P8B			≤ 8	≤ 10	8

B = balanced

T-manifold type TCP/TDP/TEP





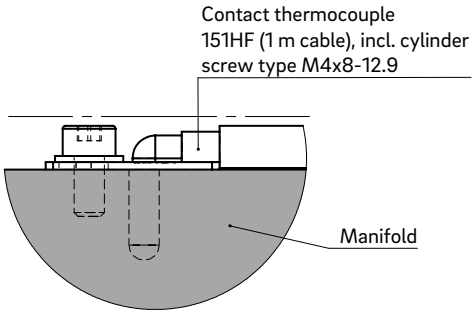
TECHNICAL DATA

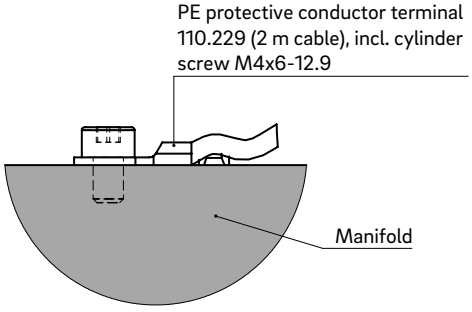
TCP/TDP/TEP

Manifold height (VH)	**TCP:** 36 mm **TDP:** 46 mm **TEP:** 56 mm
Operating voltage	230 V_{AC}*
Manifold length (VL)	S1 + 2 × DS
Manifold width (VB)	T + 2 × 40 mm

The heating output of each control circuit is calculated individually.

*Volts alternating current

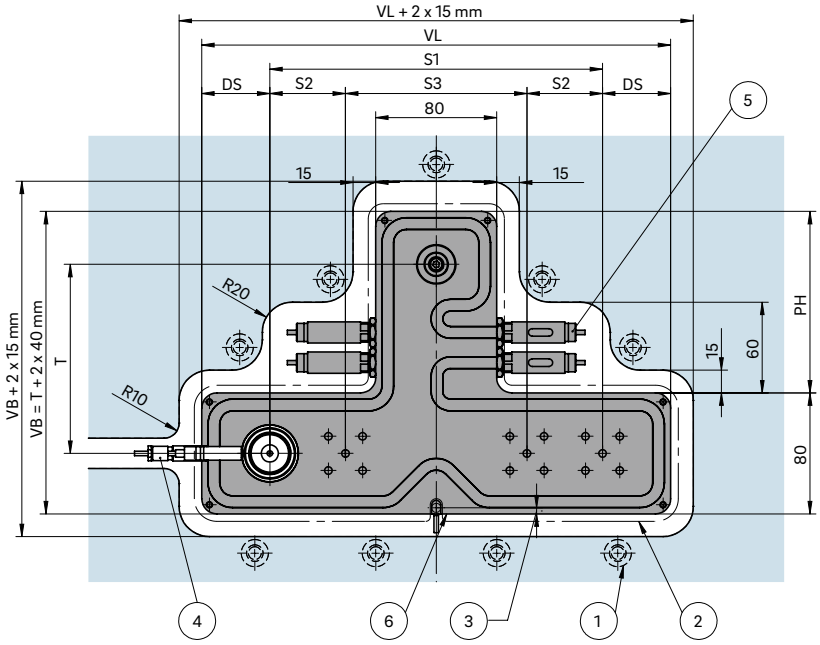




WEBCODE
25110

INSTALLATION

Nozzle tip view

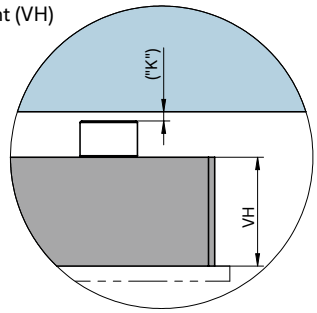


DS Edge distance:
a. min. 35.0 with nozzle size ≤ 6
b. min. 45.0 with nozzle size 8 or 10
c. min. 50.0 with nozzle size ≥ 12

T Distance from the connecting nozzle to the nozzle row

① Screw connection close to manifold
② High-temperature insulation plate
③ Heating connections
④ Possible pin position
"SP" = d/2 + 1 mm
⑤ Opening and plug location
dependent upon nozzle type

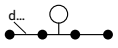
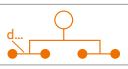
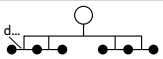
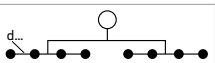
Manifold height (VH)



Dimension "K" required for heat expansion is to be ensured by grinding the pressure piece (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

Design examples/Balancing

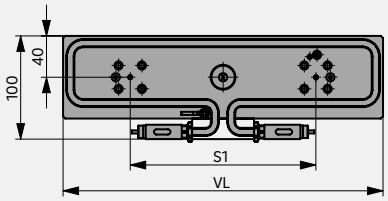
Type		TCP = 36 (VH) Melt channel dia in mm	TDP = 46 (VH) Melt channel dia in mm	TEP = 56 (VH) Melt channel dia in mm	Number of drops
T_P2B		≤ 10	≥ 12 to 16	> 16	2
T_P4–		≤ 10	≥ 12 to 16	> 16	4
T_P4B		≤ 10	≥ 12 to 16	> 16	4
T_P6T		≤ 10	≥ 12 to 16	> 16	6
T_P8T		≤ 10	≥ 12 to 16	> 16	8

B = balanced T = partially balanced – = not balanced

Rapid systems

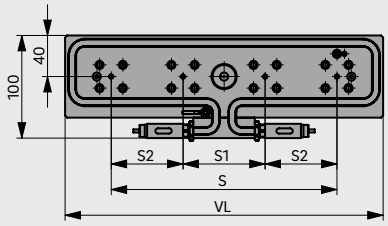
Fully configured hot runner system comprised of manifolds, nozzles and accessories
Delivery time: 2 business weeks.

GCP2 SERIES



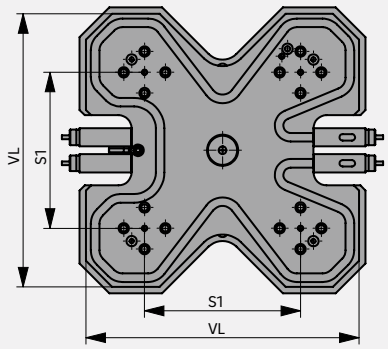
Length (VL)	Pitch (S1 mm) for nozzle type SHF/SMT	Pitch (S1 mm) for nozzle type SHT
160	≥ 58 to 90 (SMT)	
160	≥ 67 to 90 (SHF)	
210	> 90 to 140	> 90 to 120
260	> 140 to 190	> 120 to 170
310	> 190 to 240	> 170 to 220
360	> 240 to 290	> 220 to 270

GCP4B SERIES

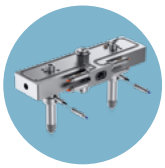


Length (VL)	S = total (min. to max.) mm
260	≥ 130 to 190 (SMT)
260	≥ 145 to 190 (SHF)
310	> 190 to 240
360	> 240 to 290

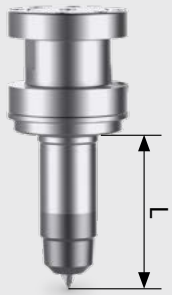
KCP4 SERIES



Length (VL)	S1 mm
135	≥ 44 to 65 (SMT)
135	≥ 47 to 65 (SHF)
165	> 65 to 95
180	> 95 to 110
210	> 110 to 140
240	> 140 to 170



NOZZLE TYPE SHF[1]



Melt channel -Ø (mm) / Nozzle length (L mm)

4.8 / 50, 60, 80, 100

6 / 50, 60, 80

Smallest pitch S1 ≥ 67

Melt channel -Ø (mm) / Nozzle length (L mm)

4.8 / 50, 60, 80, 100

6 / 50, 60, 80

Smallest pitch S1 ≥ 67
Smallest pitch S2 ≥ 39

Melt channel -Ø (mm) / Nozzle length (L mm)

4.8 / 50, 60, 80, 100

6 / 50, 60, 80

Smallest pitch S1 ≥ 47

NOZZLE TYPE SHT

Melt channel -Ø (mm) / Nozzle length (L mm)

7.5 / 60, 80, 100

Smallest pitch S1 ≥ 90
Connection piece typ AK10 or AKV10/40

NOZZLE TYPE SMT

Melt channel -Ø (mm) / Nozzle length (L mm)

3.8 / 50, 60, 80, 100

4.8 / 50, 60, 80, 100

6 / 50, 80

Smallest pitch S1
Melt channel-Ø 3.8 = S1 ≥ 58
Melt channel-Ø 4.8 = S1 ≥ 62
Melt channel-Ø 6 = S1 ≥ 63

Melt channel -Ø (mm) / Nozzle length (L mm)

3.8 / 50, 60, 80, 100

4.8 / 50, 60, 80, 100

6 / 50, 80

Smallest pitch S1
Melt channel-Ø 3.8 = S1 ≥ 58
Melt channel-Ø 4.8 = S1 ≥ 62
Melt channel-Ø 6 = S1 ≥ 63
Smallest pitch S2
Melt channel-Ø 3.8 = S2 ≥ 30
Melt channel-Ø 4.8 = S2 ≥ 32
Melt channel-Ø 6 = S2 ≥ 35

Melt channel -Ø (mm) / Nozzle length (L mm)

3.8 / 50, 60, 80, 100

4.8 / 50, 60, 80, 100

6 / 50, 80

Smallest pitch S1
Melt channel-Ø 3.8 = S1 ≥ 44
Melt channel-Ø 4.8 = S1 ≥ 44
Melt channel-Ø 6 = S1 ≥ 45

RAPID SYSTEM

Comprised of:

1 Connection piece type AKV6/40, AKV8/40, AK10, AKV10/40 incl. titanium ring
2/4 Pressure piece
1 Manifold – insulation plate optional
1 Contact thermocouple 151 HF
2/4 Nozzle type SHF, SHT, SMT
2/4 Power connector CHF (SHF), CMT (SHT), permanent power connection (SMT)
2/4 Thermocouple connector CMLK (SHF, SHT), permanent thermocouple plug connection (SMT)
1 Spacer

Cylinder pin for turning prevention is not included in the scope of supply.

ORDER

Please use the enquiry fax template on the following page.

[1] BlueFlow® hot runner nozzle type SHF is not intended for sale or use in the USA or Canada!

Enquiry fax number: +49 6451 5008-59

Rapid system application information

CUSTOMER INFORMATION

Customer number:	Contact partner:	End customer:
Company:	Telephone:	Target date:
Street:	E-mail:	Other information:
City and post code:	Date:	

REQUIRED INFORMATION ON THE APPLICATION

Item designation	
Industry	☐ Car ☐ Electronics ☐ Packaging ☐ Consumer goods ☐ Medical technology
Material designation (trade name)	
Shot weight per hot runner nozzle (g)	
Type of gating (direct or indirect)	
Wall thickness (mm)	

REQUIRED INFORMATION ON THE MOULD

Series	☐ GCP2 ☐ GCP4B ☐ KCP4
Manifold length	VL _____ mm
Melt channel Ø	☐ 3.8 mm ☐ 4.8 mm ☐ 6 mm ☐ 7.5 mm
Nozzle type	☐ SHF ☐ SHT ☐ SMT
Nozzle length	L _____ mm
Pitch	S1 _____ mm S2 _____ mm (only GCP4B)
Connecting element	☐ AK ☐ AKV6/40 ☐ AKV8/40 ☐ AK10 (SHT) ☐ AKV10/40 (SHT)
Radius	R _____ mm
Angle	W _____ °
Order quantity	
Delivery date	

