HEATLOCK®

Global Hot Runner Solutions

A1

www.heatlock.com

HEATLOCK
Global Hot Runner Solution Provider

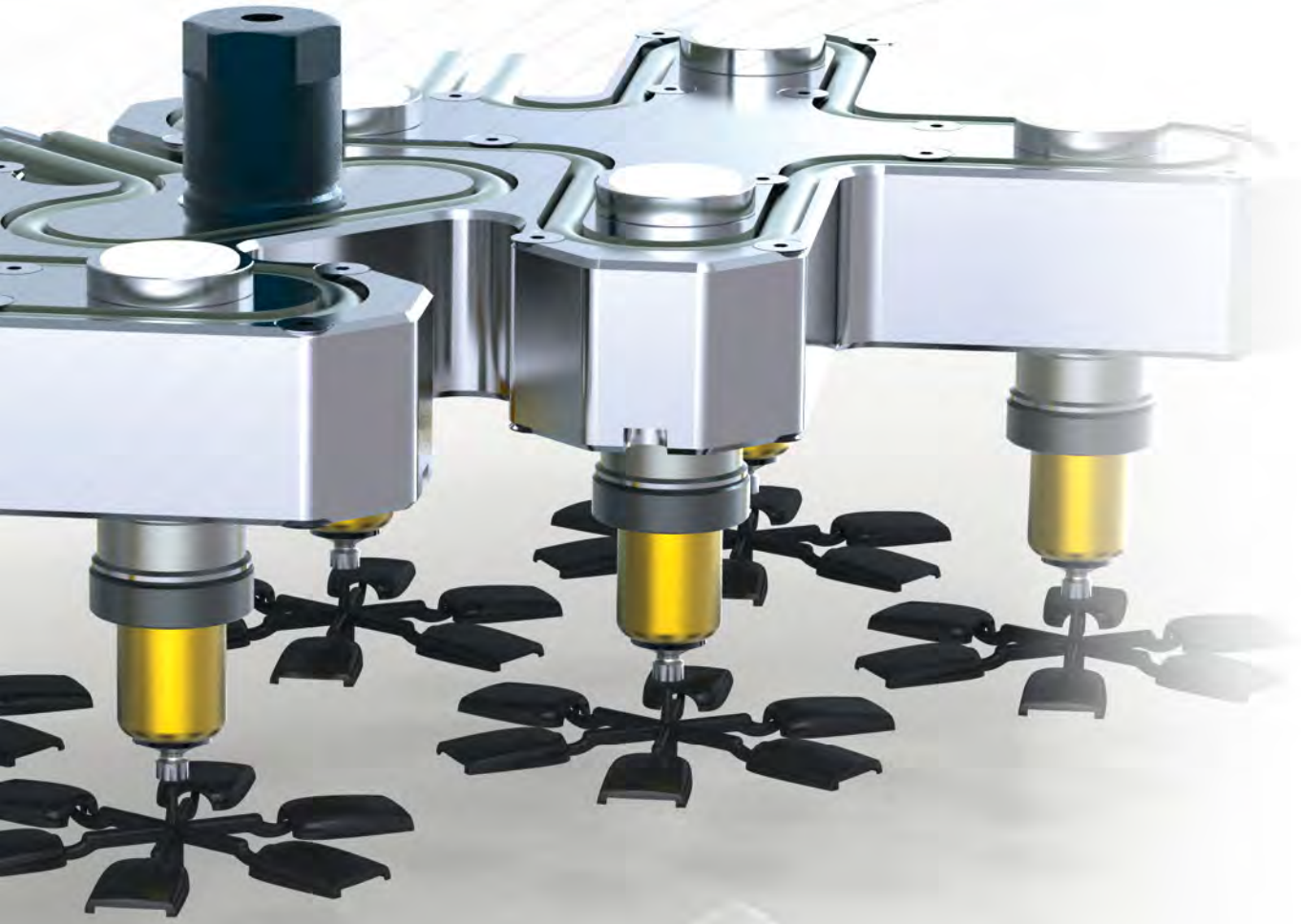
HEATLOCK is a Swedish Hot Runner solution provider with headquarters in China. Our operation is set up according to international business standards with a strict quality and management system as our key ingredients. We have more than 30 years experience with Hot Runner solutions and provide global service through our extensive network of partners.

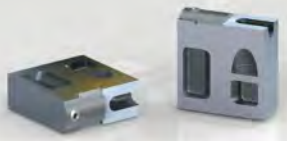
Are you looking for a Hot Runner system or for a more advanced Hot Half designed for longevity, low maintenance and easy service in case it's needed? - **We do it. All ceramic insulated.**

Do you have moulds built in china and looking for professional project management to ensure all things add up can our team of project managers help you? - **We can do it.**

Do you need a reliable Hot Runner component supplier basedin China for private label or special projects? - **We can do it.**

HEATLOCK; Your complete Hot Runner solutions provider, international and local at the same time.





A1 SERIES

Content

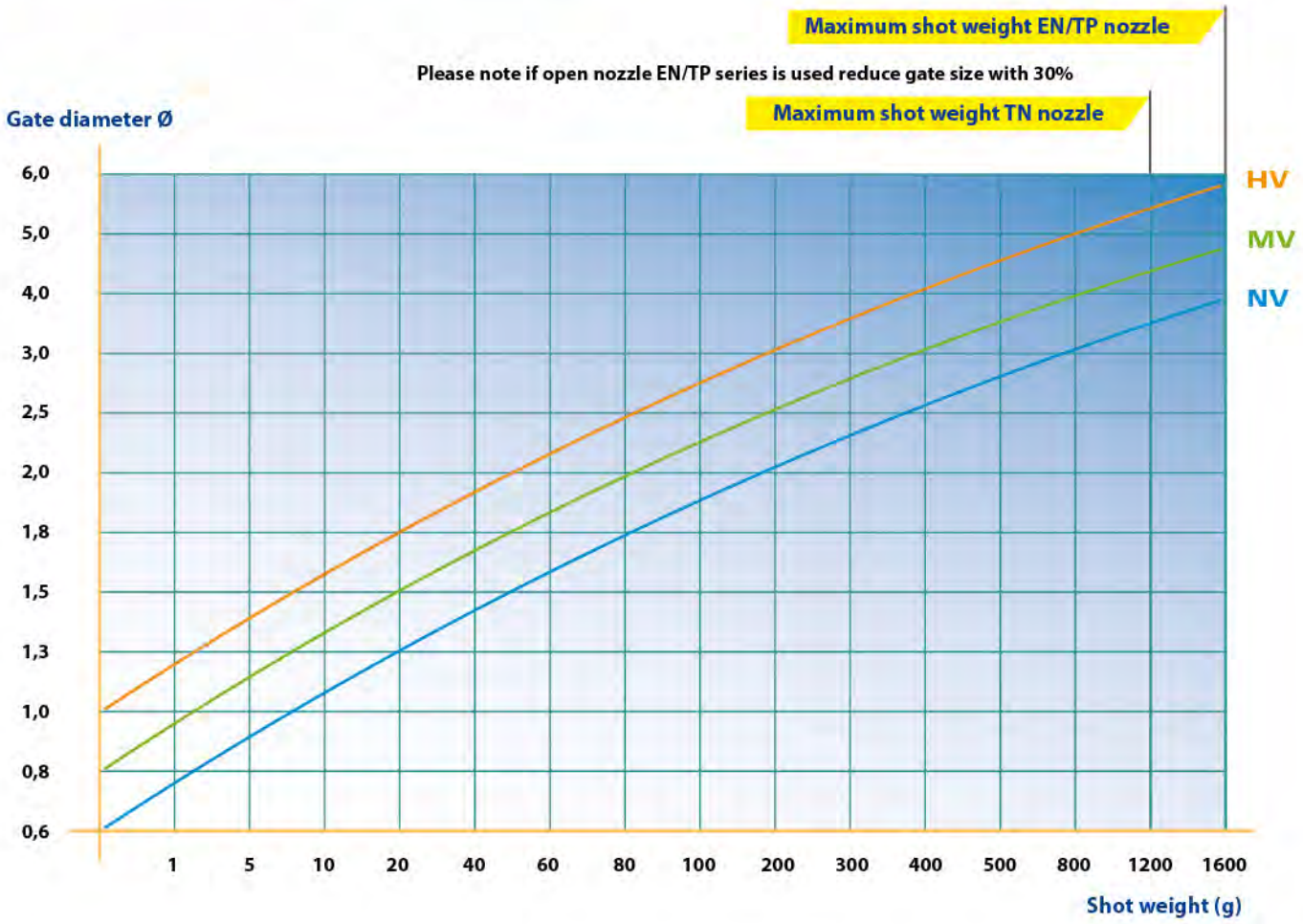
Standard hot runner series, floating manifold system, the work horse

- Price optimized hot runner solutions
- Ceramic insulated manifolds
- Optional ceramic insulated nozzles
- Special solutions or standard nozzle series
- Valve gate systems
- Multi tip nozzles

Individually design nozzle solutions to suit your production needs.

A1 Nozzle																		
*** Good ** Ok * Contact HEATLOCK -- Not recommended		EN1	EN2	EN3	EN4	PPT1 TP1	PPT2N TP2	TP3	TP4	PT1N TN1	PT2 TN2	TN3	TN4	VG1	VG2	VG3	VG4	A2MT
Feed Channel (mm)		4	6	9	14	4	6	9	14	4	6	9	14	4	6	9	14	4
Low-viscosity PE, PS, PP		200	500	850	1650	200	500	850	1650	140	330	580	1200	160	390	700	1200	140
Medium-viscosity ABS, P A, POM, SAN		100	270	400	800	100	270	400	800	60	220	340	650	70	85	300	550	60
High-viscosity		40	150	280	550	40	150	280	550	20	70	200	400	20	50	180	380	*
Low-viscosity	PP	***				***				***				***				***
	PS/PE	***				***				***				***				***
Medium-viscosity	ABS/SAN	***				***				***				***				***
	POM	***				**				**				*				**
	LCP	**				**				--				*				--
	PBT	***				**				*				*				*
	PET	**				*				*				*				*
	PA6/P A6.6	*				*				*				*				*
High-viscosity	PC/PMMA	***				***				**				***				**
	PPO	***				***				*				*				**
	PES/PEK	***				**				--				*				*
	PPS/PEI	**				**				--				*				*
L/M/H viscosity + additives	GF/CF/FR	***				**				*				*				--

Gate diameter



The diagram above gives a guideline figure for the gate diameter needed for different plastics and shot weights.

Note: If the gate diameter is too small, an unnecessarily high bushing temperature will have to be set for the gate not to freeze between shots.

The suggested figures are approximate. Gate dimension may be influenced by the shape of the part and the design of the mould etc. The balance between shot weight, injection rate, tool temperature, temperature pattern opposite gate, cooling around gate and injection pressure are all factors that affect gate size. A small gate freezes quicker than a large gate. On injection moulding with very short cycle times and short injection times, it may be necessary to design gate cooling so that it does not overheat.

If the sprue bushing is feeding a runner which has a gate into a cavity, it may be suitable to make the bushing gate larger than actually necessary. This way pressure drop and shear will be reduced. If an electric sprue bushing is used to feed a runner, this means that length of flow in cold steel has been reduced equivalent to the bushing length. Due to this cross section, the runner can be made smaller than usual. This is important in order to get shortest possible cycle time.

Start with a smaller gate that indicated in the table.

A1- EN/TP/TN

A1-EN Series

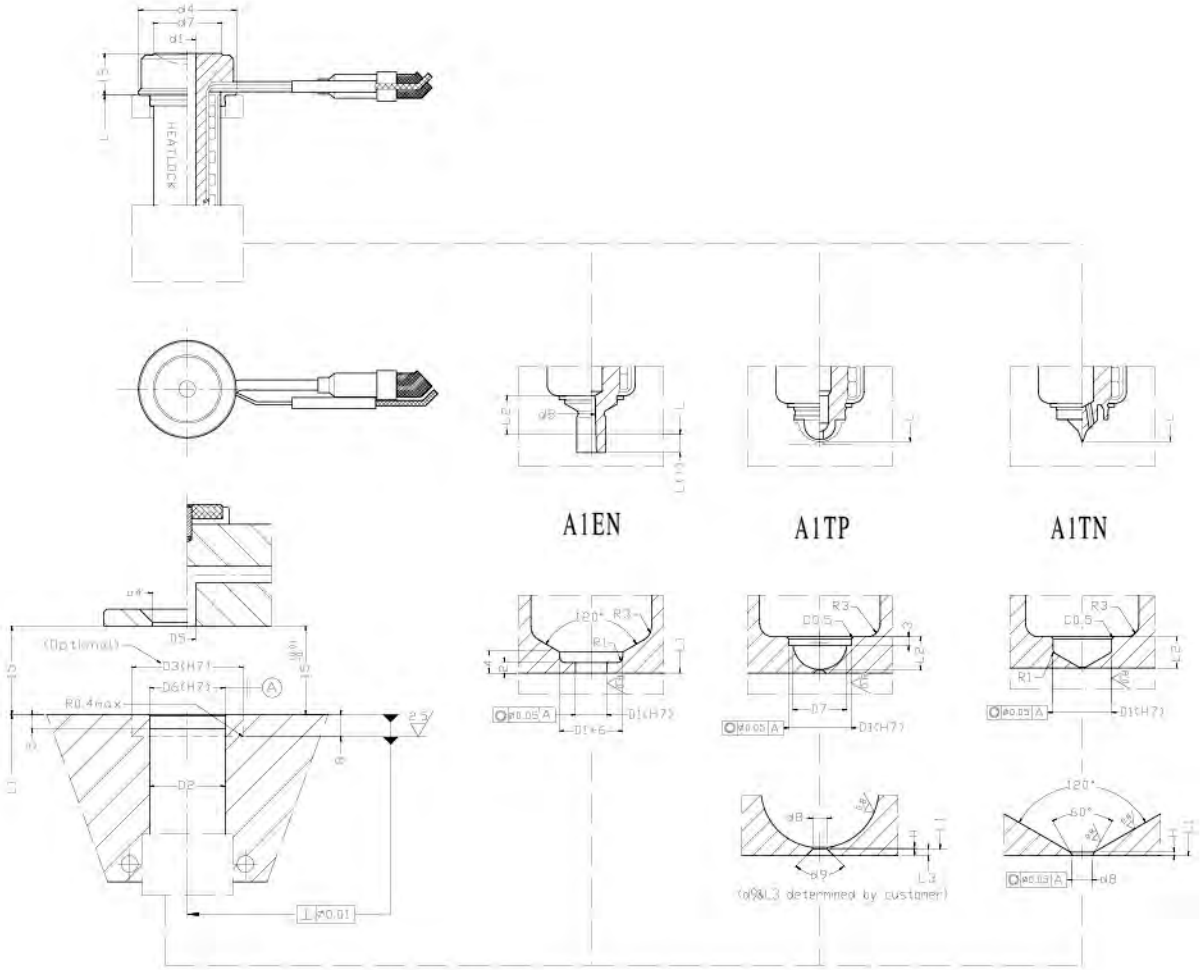
- Easy to install, easy to use
- For direct gate or gate on runner, easy to control gate temperature
- Excellent heat separation between HR and mould
- Ceramic (size 1) or Titanium insulation ring optional

A1-TP Series

- Easy to install, easy to use
- Fast gate cooling
- Suitable for direct gate or gate on runners
- For shot weights up to 1650 gram
- Ceramic insulation or titanium ring optional

A1-TN Series

- Easy to install, easy to use
- Small residue
- For direct gate on the part
- For shot weights up to 1200 gram
- Ceramic insulation or titanium ring optional



Nozzle series

A1- EN/TP/TN

Order example :
A1---XXX---X---XXX---XX
(Series) (Size) (L) (D)
A1 EN 2 040 08

(mm)

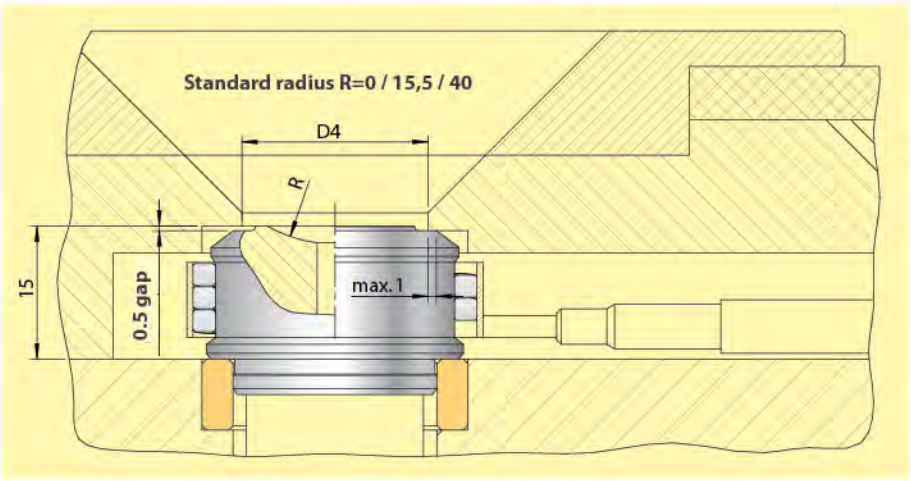
Size	L	L1			L(+)	d1	d4	d7	d8			L2			H		D1			D2	D3	D4	D5	D6
	All	EN	TP	TN	EN	ALL	ALL	ALL	EN	TP	TN	EN	TP	TN	TP	TN	EN	TP	TN	ALL	ALL	ALL	ALL	ALL
1	40	40.58	40.11		5	4	29	18	1.5	≥0.6		6.7	6.5		0.2		6	11		23	C30 T30	20	6	23
	50	50.60	50.13																					
	60	60.61	60.15																					
	80	80.65	80.19																					
	100	100.69	100.23																					
	120	120.73	120.26																					
2	40	40.58	40.08		5	6	35	24.5	2	≥0.8		8	8		0.2		8	14		27	T36	26.5	6	27
	60	60.61	60.16																					
	80	80.65	80.20																					
	100	100.69	100.24																					
	120	120.73	120.28																					
	140	140.77	140.31																					
	160	160.80	160.35																					
3	60	60.61	60.17		10	9	48	32	2	≥1.2		9	9.5		0.3		12	19		39	T50	34	9	39
	80	80.65	80.21																					
	100	100.69	100.25																					
	120	120.73	120.29																					
	140	140.77	140.32																					
	160	160.80	160.36																					
	180	180.84	180.40																					
4	80	80.65	80.21		20	14	52	34.5	3	≥1.8		9	10.5		0.4		16	25		44	T54	36.5	14	34
	100	100.69	100.25																					
	120	120.73	120.29																					
	140	140.77	140.33																					
	160	160.80	160.37																					
	180	180.84	180.40																					
	200	200.88	200.44																					

• D3: C = Ceramic; T = Titanium

Shot Weight (g) / Size	Low-viscosity			Med-viscosity			High-viscosity			Remarks	
	EN	TP	TN	EN	TP	TN	EN	TP	TN	EN / TP	TN
Size 1	<200		<140	<100		<60	<40		<20	d8 is the minimum, the maximum is 3mm	d8 is the minimum, the maximum is 2mm
Size 2	<500		<330	<270		<220	<150		<70	d8 is the minimum, the maximum is 4mm	d8 is the minimum, the maximum is 3mm
Size 3	<850		<580	<400		<340	<280		<200	d8 is the minimum, the maximum is 5mm	d8 is the minimum, the maximum is 3mm
Size 4	<1650		<1200	<800		<650	<550		<400	d8 is the minimum, the maximum is 6mm	d8 is the minimum, the maximum is 5mm

Single cavity application, rear R is made to order

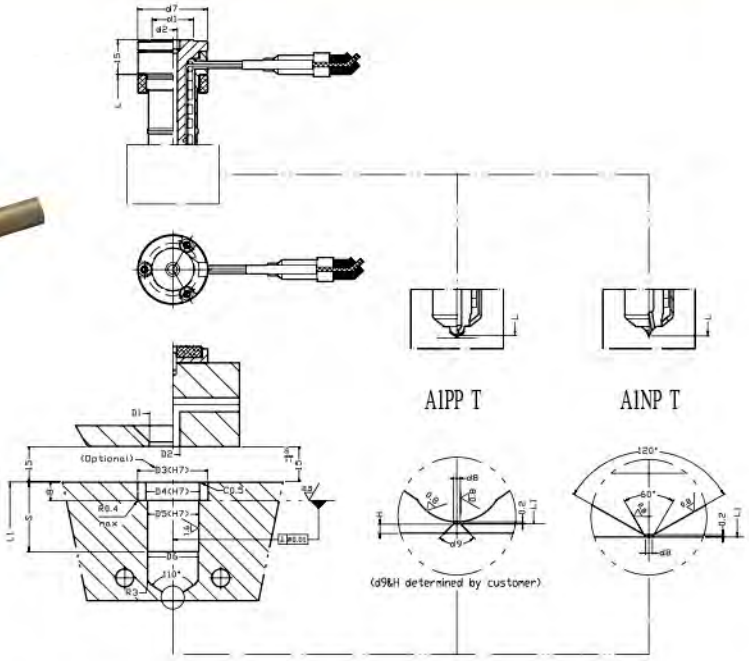
Please take note of the installation dimension for the location ring. Installed shall an air gap exist of 0,5mm between nozzle back and location ring.



- For resins with higher melt temperature than 250°C use a rear band heater for maximum temperature control
- NOTE: control band heater with a separate temperature controller

You find more information of band heater on page 09.

A1-PPT/NPT



A1-T Series

- Easy to install, easy to use
- For direct gate or gate on runner, easy to control gate temperature
- Excellent heat separation between HR and mould
- Ceramic (size 1) or Titanium insulation ring optional

(mm)

Size	L	L1	S	d1	d2	d7	d8	D1	D2	D3	D4	D5	D6
1	40	40.11	15	18	4	30	≥0.6	20	6	30	23	22	22
	50	50.13	25										
	60	60.15	25										
	80	80.19	35										
	100	100.23	45										
	120	120.26	55										
2	40	40.08	15	25	6	35	≥0.8	27	6	40	27	26	26
	60	60.16	25										
	80	80.20	35										
	100	100.24	45										
	120	120.28	55										
	140	140.31	65										
	160	160.35	75										

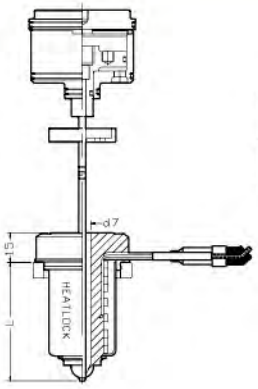
Order example :

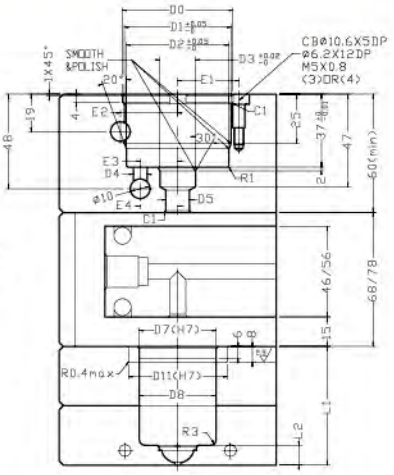
A1---XXX---X---XXX---XX

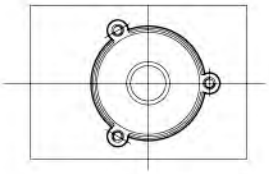
	(Series)	(Size)	(L)	(D5)
A1	**NPT**	**1**	**040**	**22**

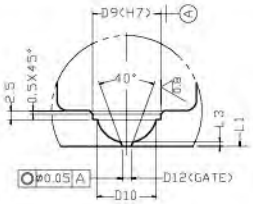
Nozzle series — Valve gate nozzle

A1-VG









A1-VG Series

- Pneumatic valve gate system
- No residue on part
- Gate diameter 0,8 to 5mm

(mm)

Size	L	L1	d7	D0	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	E1	E2	E3	E4	L2	L3
1	40	40.11	4	42	40	38	18	6	12	11	23	23	11	9	C30 T30	≥0.8	24	23	15	18	6.5	0.8
	50	50.13																				
	60	60.15																				
	80	80.19																				
	100	100.20																				
	120	120.30																				
2	40	40.08	6	42	40	38	18	6	12	11	27	27	14	12	T36	≥1.0	24	23	15	18	8	0.8
	60	60.16																				
	80	80.20																				
	100	100.20																				
	120	120.30																				
	140	140.30																				
	160	160.40																				
3	60	60.17	9	56	54	52	18	7	12	11	39	39	19	16.5	T50	≥1.5	31	29	19	19	10	1.2
	80	80.21																				
	100	100.30																				
	120	120.30																				
	140	140.30																				
	160	160.40																				
	180	180.40																				
4	80	80.21	14	65	63	61	21	7	15	13	44	44	25	22.5	T54	≥2.5	35.5	33	23	23	11	1.2
	100	100.30																				
	120	120.30																				
	140	140.30																				
	160	160.40																				
	180	180.40																				
	200	200.40																				

- D3: C = Ceramic; T = Titanium

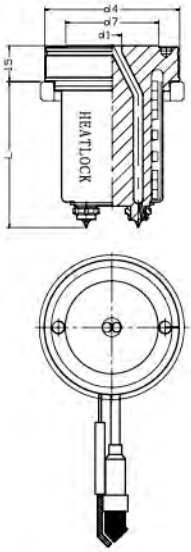
Order example :

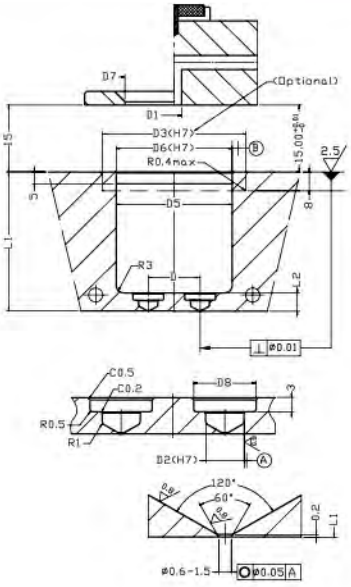
A1---VG---X---XXX---XX

(Series) (Size) (L) (D9)

A1 VG 2 040 14

A2-MT





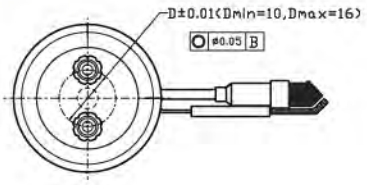
A2-MT Series

- Easy to install, easy to use
- Fast gate cooling
- Suitable for direct gate on small parts
- For shot weights up to 140 gram
- Titanium insulation optional

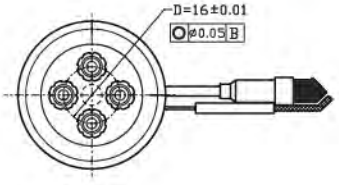
(mm)

Series No.	L	L1	d1	d4	d7	L2	D	D1	D2	D3	D5	D6	D7	D8
A2MT04040102	40	40.13	8	48	32	7.5	10	8	8	T50	39	39	34	13
A2MT04080102	80	80.23												
A2MT04060162	60	60.18	8	52	34.5	7.5	16	8	8	T54	44	44	36.5	13
A2MT04080162	80	80.23												
A2MT04060164	60	60.18												
A2MT04080164	80	80.23												

Type \ Shot Weight (g)	Low-viscosity	Med-viscosity	Gate size
A2MT	<140	<60	Ø 0.6 is the minimum, the maximum is 1.5mm



2 Gates



4 Gates

CC distance (D) or non-standard nozzle length can be made according to customer's requirement.

Order example :

A2---MT---XX---XXX---XX---X

	(Series)	(Size)	(L)	(D)	(Tip Qty)
A2	**MT**	**04**	**040**	**10**	**2**

Nozzle spare parts

Nozzle Type	Body		Coilheater	Thermocouple		Reflector	Ceramic
	A1EN	A1TN / A1TP / A1VG		A1EN	A1TN / A1TP / A1VG		
A1EN1 / A1TN1 / A1TP1 / A1VG1	A1EN104006	A1BD104011	CS14120330200	TC00140195	TC00140195	RFT120120	KEM03002308
	A1EN105006	A1BD105011	CS14120430200	TC00140195	TC00140200		
	A1EN106006	A1BD106011	CS14120530225	TC00140200	TC00140210		
	A1EN108006	A1BD108011	CS14120730250	TC00140210	TC00140220		
	A1EN110006	A1BD110011	CS14120930350	TC00140210	TC00140220		
	A1EN112006	A1BD112011	CS14121130350	TC00140220	TC00140250		

Nozzle Type	Body		Coilheater	Thermocouple		Reflector	Ceramic
	A1EN	A1TN / A1TP / A1VG		A1EN	A1TN / A1TP / A1VG		
A1EN2 / A1TN2 / A1TP2 / A1VG2	A1EN204008	A1BD204014	CS14150310260	TC00140195	TC00140195	RFT224200	KEM04002708
	A1EN206008	A1BD206014	CS14150510300	TC00140200	TC00140200		
	A1EN208008	A1BD208014	CS14150710350	TC00140210	TC00140210		
	A1EN210008	A1BD210014	CS14150910450	TC00140210	TC00140220		
	A1EN212008	A1BD212014	CS14151110450	TC00140220	TC00140230		
	A1EN214008	A1BD214014	CS14151310500	TC00140220	TC00140250		
	A1EN216008	A1BD216014	CS14151510550	TC00140230	TC00140250		

Nozzle Type	Body		Coilheater	Thermocouple		Reflector	Ceramic
	A1EN	A1TN / A1TP / A1VG		A1EN	A1TN / A1TP / A1VG		
A1EN3 / A1TN3 / A1TP3 / A1VG3	A1EN306012	A1BD306019	CS14210490400	TC00140200	TC00140200	RFT334200	KEM06003908
	A1EN308012	A1BD308019	CS14210690450	TC00140210	TC00140210		
	A1EN310012	A1BD310019	CS14210890500	TC00140210	TC00140220		
	A1EN312012	A1BD312019	CS14211090600	TC00140220	TC00140230		
	A1EN314012	A1BD314019	CS14211290650	TC00140220	TC00140250		
	A1EN316012	A1BD316019	CS14211490700	TC00140220	TC00140250		
	A1EN318012	A1BD318019	CS14211690750	TC00140230	TC00140270		

Nozzle Type	Body		Coilheater	Thermocouple		Reflector	Ceramic
	A1EN	A1TN / A1TP / A1VG		A1EN	A1TN / A1TP / A1VG		
A1EN4 / A1TN4 / A1TP4 / A1VG4	A1EN408016	A1BD408025	CS01280680600	TC00140210	TC00140210	RFT438200	KEM05604408
	A1EN410016	A1BD410025	CS01280880700	TC00140210	TC00140220		
	A1EN412016	A1BD412025	CS01281080750	TC00140220	TC00140230		
	A1EN414016	A1BD414025	CS01281280800	TC00140220	TC00140250		
	A1EN416016	A1BD4160025	CS01281480850	TC00140230	TC00140250		
	A1EN418016	A1BD418025	CS01281680900	TC00140230	TC00140270		
	A1EN420016	A1BD420025	CS01281880950	TC00140250	TC00140270		

Nozzle Type	Body	Sleeve	Coilheater	Thermocouple	Ceramic
A1NPT1/A1PPT1	A1NTB104011	A1NTS104022	CS14120330200	TCOO140195	KEM03002308
	A1NTB105011	A1NTS105022	CS14120430200	TCOO140200	
	A1NTB106011	A1NTS106022	CS14120530225	TCOO140210	
	A1NTB108011	A1NTS108022	CS14120730250	TCOO140220	
	A1NTB110011	A1NTS110022	CS14120930350	TCOO140220	
	A1NTB112011	A1NTS112022	CS14121130350	TCOO140250	

Nozzle Type	Body	Sleeve	Coilheater	Thermocouple	Ceramic
A1NPT2/A1PPT2	A1NTB204014	A1NTS204026	CS14150310260	TCOO140195	KEM04002708
	A1NTB206014	A1NTS206026	CS14150510300	TCOO140200	
	A1NTB208014	A1NTS208026	CS14150710350	TCOO140210	
	A1NTB210014	A1NTS210026	CS14150910450	TCOO140220	
	A1NTB212014	A1NTS212026	CS14151110450	TCOO140230	
	A1NTB214014	A1NTS214026	CS14151310500	TCOO140250	
	A1NTB216014	A1NTS216026	CS14151510550	TCOO140250	

Nozzle spare parts

A1VG pin spare parts

Pin	Size 1		Size 2		Size 3		Size 4	
	L=40-80 mm	L=100-120 mm	L=40-100 mm	L=120-160 mm	L=60-100 mm	L=120-180 mm	L=80-120 mm	L=140-200mm
	A1PN12021538	A1PN12301538	A1PN22022538	A1PN22602538	A1PN32023538	A1PN32803538	A1PN42256038	A1PN43056038

A1VG other spare parts

A1VG	Piston	Cylinder Housing	Cylinder Top	Valve Seal	Viton Oring				
Size1	A1PT2313600	A1CY2383500	A1CT2401000	A1VS2312400	ORIN-00235	ORIN-00234	ORIN-00233	ORIN-00228	ORIN-00227
Size2	A1PT2313600	A1CY2383500	A1CT2401000						
Size3	A1PT3453600	A1CY3523500	A1CT3541000	A1VS3342400	ORIN-00224	ORIN-00225	ORIN-00226	ORIN-00227	ORIN-00228
Size4	A1PT4543600	A1CY4613500	A1CT4631000	A1VS4362400	ORIN-00237	ORIN-00236	ORIN-00224	ORIN-00232	ORIN-00231

A1TN, A1TP, A1VG, A1NPT & A1PPT tip spare parts

Nozzle Type	Tip			
	Size 1	Size 2	Size 3	Size 4
A1TN	A1TN130151	A1TN241201	A1TN349301	A1TN452451
A1TP	A1TP129151	A1TP240201	A1TP348251	A1TP451301
A1VG	A1TV128171	A1TV239271	A1TV347371	A1TV450621
A1NPT	A1TN130151	A1TN241201	-----	-----
A1PPT	A1TP129151	A1TP240201	-----	-----

A2MT

Nozzle Type	Body	Tip	Nut	Coil Heater	Thermocouple	Reflector	Titanium
A2MT	A2MBD04040102	A3TN0465251	A3SL650908	CS14210330300	TC00140210	RFT334200-040	TIM05003908
	A2MBD04080102			CS14210690450	TC00140230	RFT334200-080	
	A2MBD04060162		A3SL6509086	CS01280520500	TC00140220	RFT438200-060	TIM05404408
	A2MBD04080162			CS01280680600	TC00140230	RFT438200-080	
	A2MBD04060164			CS01280520500	TC00140220	RFT438200-060	
	A2MBD04080164			CS01280680600	TC00140230	RFT438200-080	

Nozzle Bandheater

Single cavity application:

A heated feed bush is recommended for all polymers except PE, PP and PS.

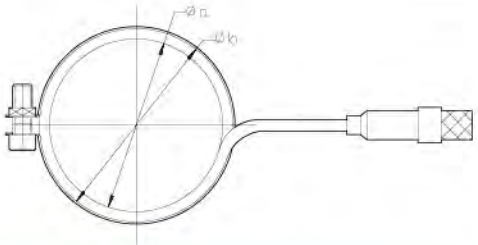
Important:

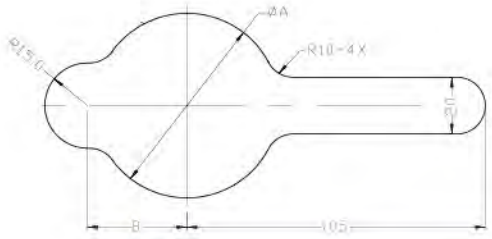
For best performance always connect band heater to separate temperature controller zone

Power	White (2x)	Power
	Yellow/Green	Earth
Thermocouple	Blue	Minus [-]
	Red	Positive [+]

Assembly of band heater:

- Remove metal band
- Assmble coiled heater onto nozzle head
- Assemble and fix metal band outside the heater





Part No.	Dimension	a	b	Watts
D-CY-BH127150	33x10	27	33	150
D-CY-BH230200	36x10	30	36	200
D-CY-BH233200	39x10	33	39	200
D-CY-BH235250	41x10	35	41	250
D-CY-BH347250	53x10	47	53	250
D-CY-BH451300	57x10	51	57	300

Part No.	A	B
D-CY-BH127150	40	30
D-CY-BH230200	43	32
D-CY-BH233200	45	32
D-CY-BH235250	48	34
D-CY-BH347250	62	40
D-CY-BH451300	65	40

Manifold

Heatlock was 1982 the first Hot Runner supplier to introduce ceramic insulation as standard feature. You have up to 300 standard manifolds to choose from.

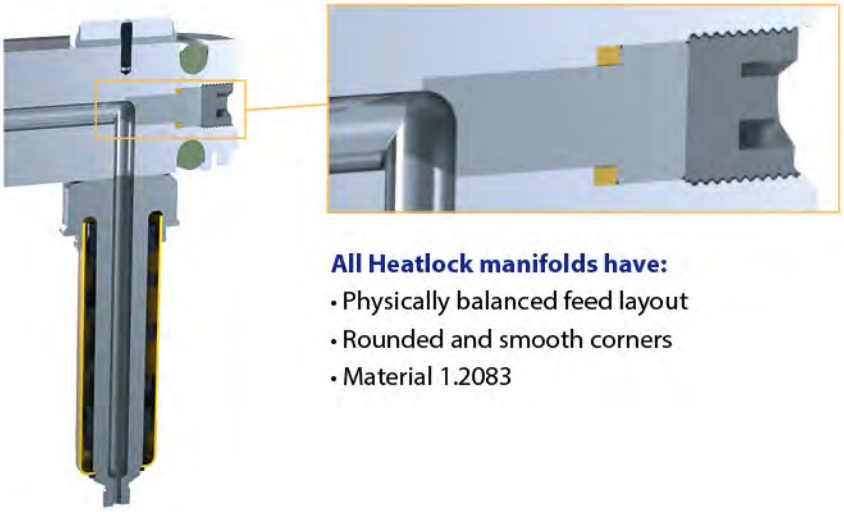
Standard manifolds:
- Manifold shape I, X, H, XX
- Thickness 36, 46, and 56mm
- Flow channel diamter 6-16mm

All standard manifolds system are delivered within 2-3 weeks.

All finished to your requirements making your needs our "standard". Making manifold design not more difficult than designing the pillars and bushes into a mould.

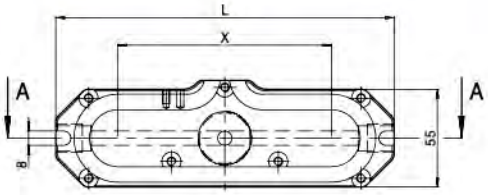
In case any of our standard options does not suit do we make custom made manifolds within 2-3 weeks.

Floating manifold system

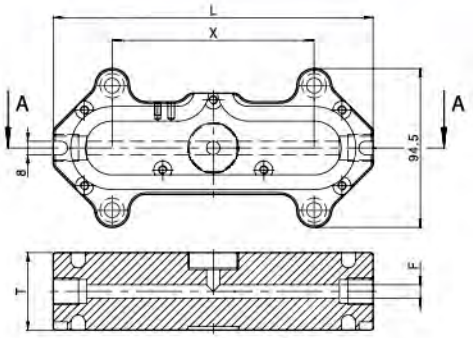


All Heatlock manifolds have:
- Physically balanced feed layout
- Rounded and smooth corners
- Material 1.2083

Manifold I and H shape



F type



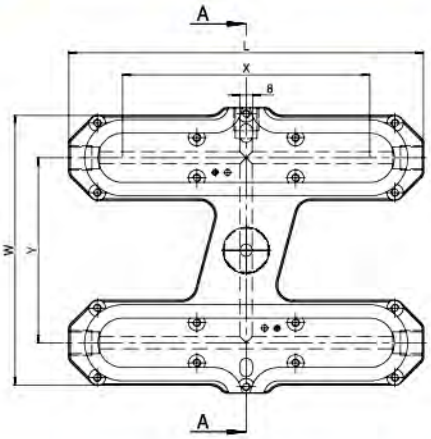
A-A

B type

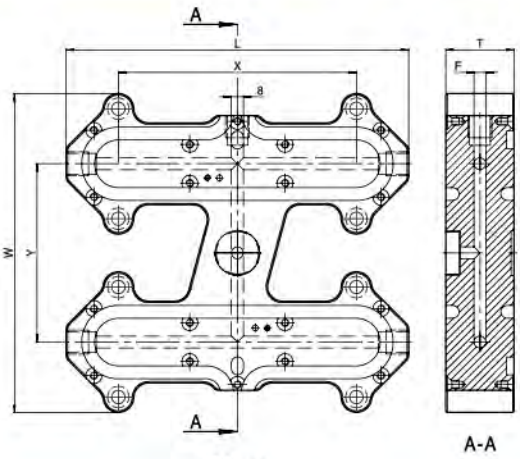
Material 1.2083

(mm)

Part No.	T	F (ø)	L=130 X	L=150 X	L=170 X	L=190 X	L=210 X	L=230 X	L=250 X	L=270 X	L=290 X	L=310 X	L=330 X	L=350 X	L=370 X
MIO/3606	36	6	60	80	100	120	140	160		200		240		280	
MIO/4608	46	8	60	80	100	120	140	160		200		240		280	
MIO/4610	46	10	60	80	100	120	140	160		200		240		280	
MIO/5612	56	12			80	100	120	140	160		200		240		280
MIO/5614	56	14			80	100	120	140	160		200		240		280
MIO/5616	56	16			80	100	120	140	160		200		240		280



F type



A-A

B type

Material 1.2083

(mm)

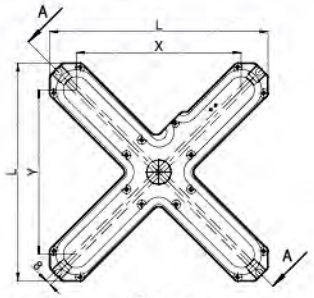
Part No.	T	F (ø)	Y	W	L=150 X	L=170 X	L=190 X	L=210 X	L=230 X	L=250 X	L=270 X	L=290 X	L=310 X	L=330 X	L=350 X	L=370 X
MHO/XXXX	36/46	6/8/10	80	135	80	100	120	140	160		200		240		280	
			100	155		100	120	140	160		200		240		280	
			120	175			120	140	160		200		240		280	
			140	195				140	160		200		240		280	
	56	12/14/16	80	135		80	100	120	140	160		200		240		280
			100	155			100	120	140	160		200		240		280
			120	175				120	140	160		200		240		280
			140	195					140	160		200		240		280

Order example:

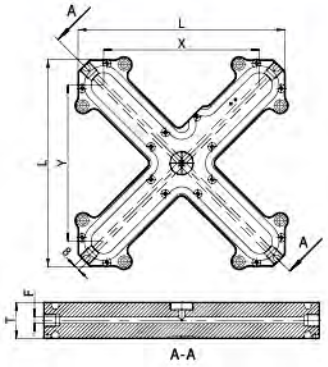
M---XX---XXX---XXX---XX---XX---X

	(Series)	(X)	(Y)	(T)	(F)	(F Type/ B Type)
M	**H0**	**080**	**080**	**56**	**12**	**F**

Manifold X and XX shape



F type

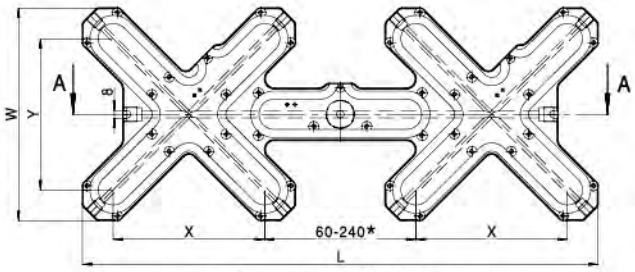


B type

Material 1.2083

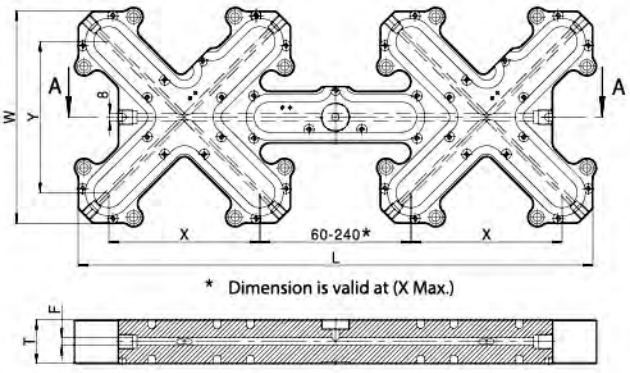
(mm)

Part No.	T	F (ø)	L=125 X/Y	L=145 X/Y	L=165 X/Y	L=185 X/Y	L=205 X/Y	L=225 X/Y	L=245 X/Y	L=265 X/Y	L=285 X/Y	L=305 X/Y	L=325 X/Y
MXO/3606	36	6	60	80	100	120	140	160		200		240	
MXO/4608	46	8	60	80	100	120	140	160		200		240	
MXO/4610	46	10	60	80	100	120	140	160		200		240	
MXO/5612	56	12					120	140	160		200		240
MXO/5614	56	14					120	140	160		200		240
MXO/5616	56	16					120	140	160		200		240



* Dimension is valid at (X Max.)

F type



* Dimension is valid at (X Max.)

A-A

B type

Material 1.2083

(mm)

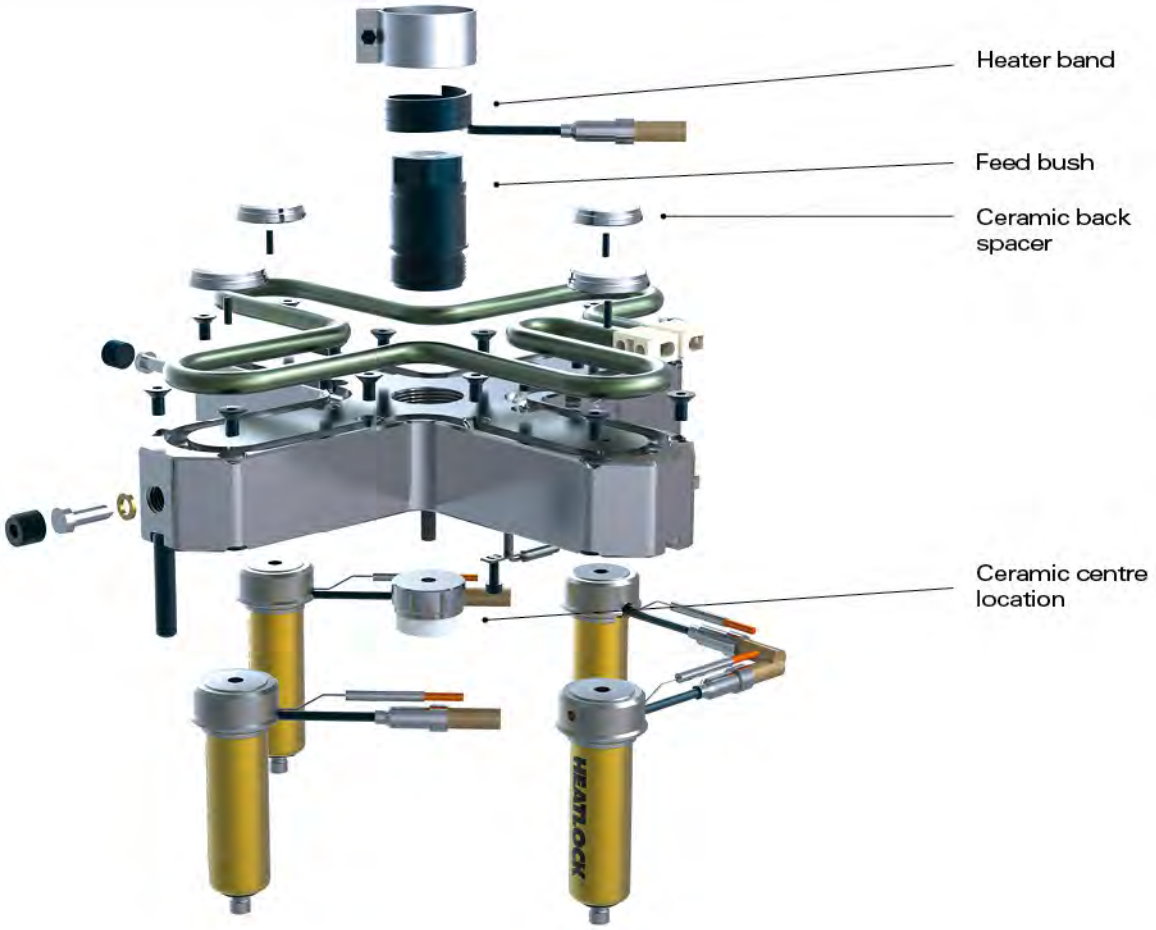
Part No.	T	F (ø)	L=260 W=125 X/Y	L=306 W=145 X/Y	L=365 W=165 X/Y	L=425 W=185 X/Y	L=445 W=205 X/Y	L=485 W=213 X/Y	L=505 W=225 X/Y	L=553 W=233 X/Y	L=565 W=245 X/Y	L=673 W=273 X/Y	L=685 W=285 X/Y	L=793 W=313 X/Y	L=805 W=325 X/Y
MXX/3606	36	6	60	80	100	120		140		160		200		240	
MXX/4608	46	8	60	80	100	120		140		160		200		240	
MXX/4610	46	10	60	80	100	120		140		160		200		240	
MXX/5612	56	12					120		140		160		200		240
MXX/5614	56	14					120		140		160		200		240
MXX/5616	56	16					120		140		160		200		240

Order example:

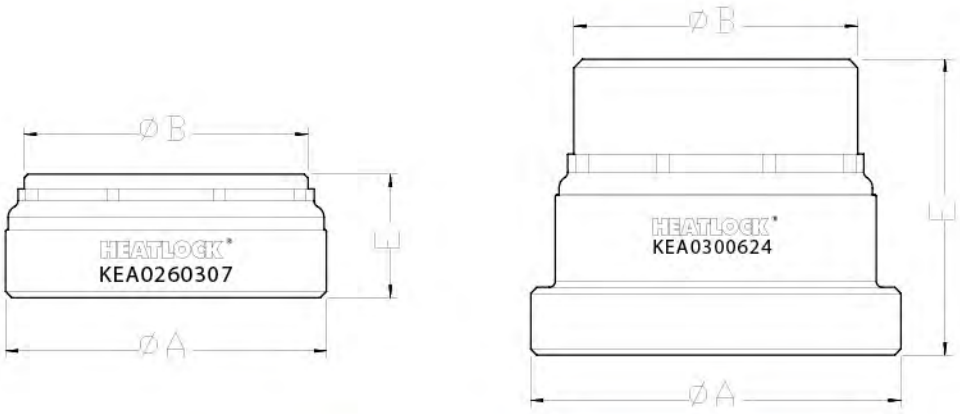
M---XX---XXX---XXX---XX---XX---X

	(Series)	(X)	(Y)	(T)	(F)	(F Type/ B Type)
M	**X0**	**120**	**120**	**56**	**12**	**F**

Manifold accessories



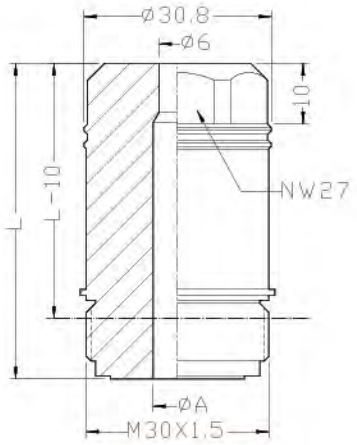
Ceramic supports



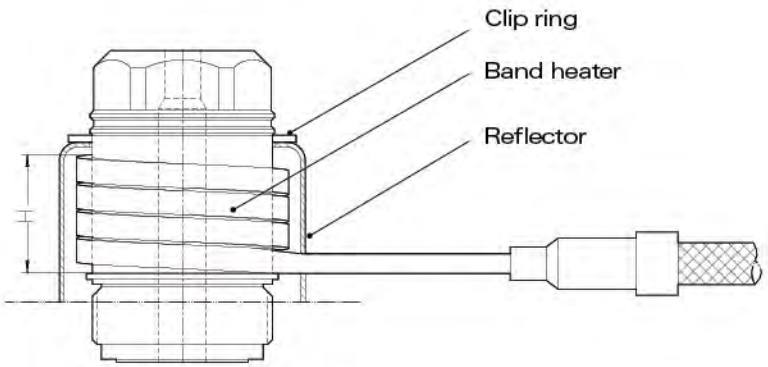
Item code	A	B	E	Description
KEA0260307	26	23	7	Ceramic back support
KEA0260310	26	23	10	
KEA0260314	26	23	14	
KEA0300624	30	23	24	Ceramic centre location

Manifold feed bush

Feed bush

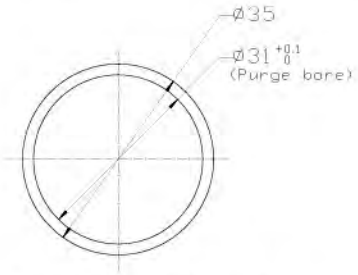


Feed bush with band heater

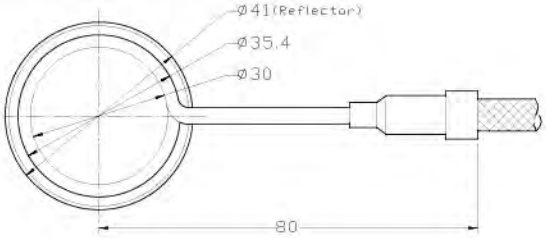


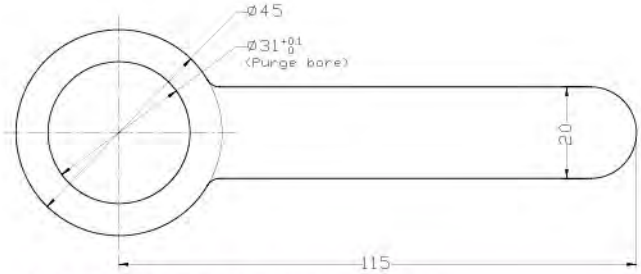
Item code	L	A	H	Band heater	Reflector	Clip ring
DSP5203008	52	8	20	BS230020250	RFT438200-21	CUSH-00296
DSP5203010		10				
DSP7003008	70	8	36	BS230036400	RFT438200-41	
DSP7003010		10				

Please note:
- For resins with higher melt temperature than 250°C use a rear band heater for maximum temperature control
- NOTE: control band heater with a separate temperature controller



Bore for feed bush

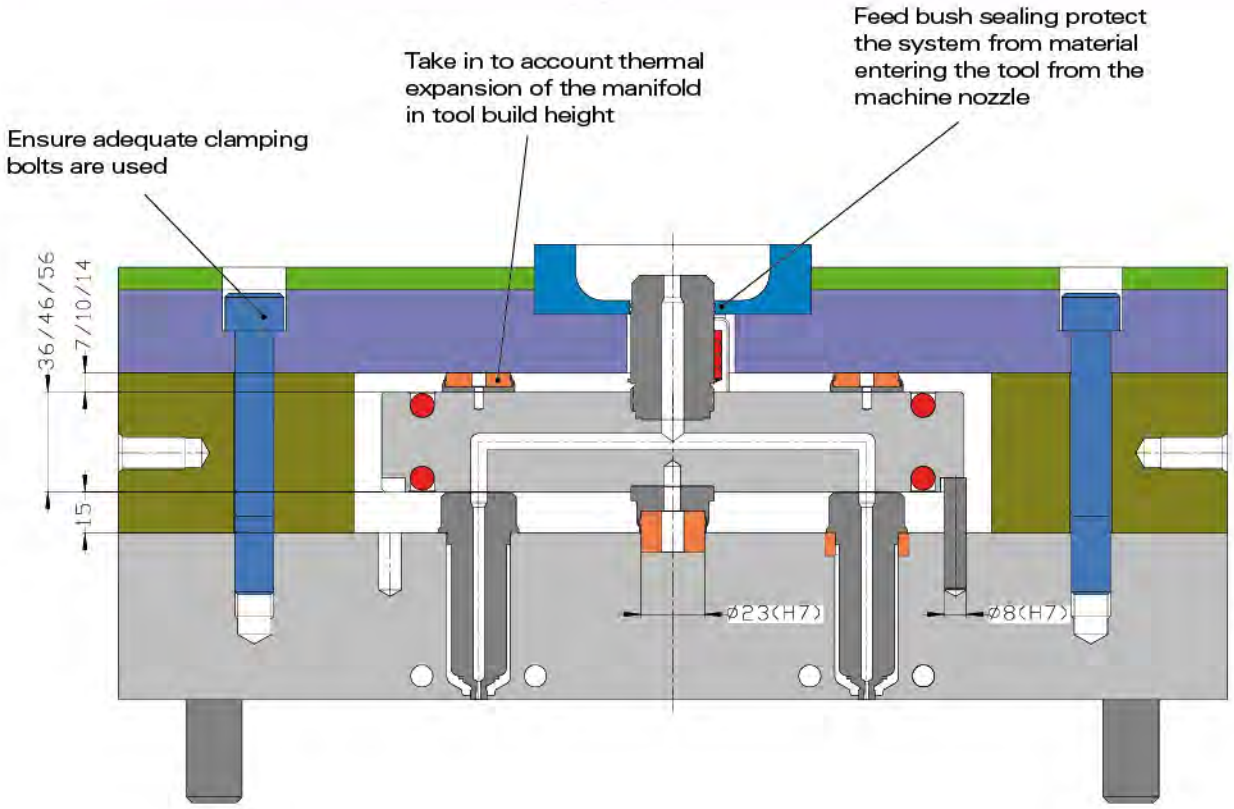




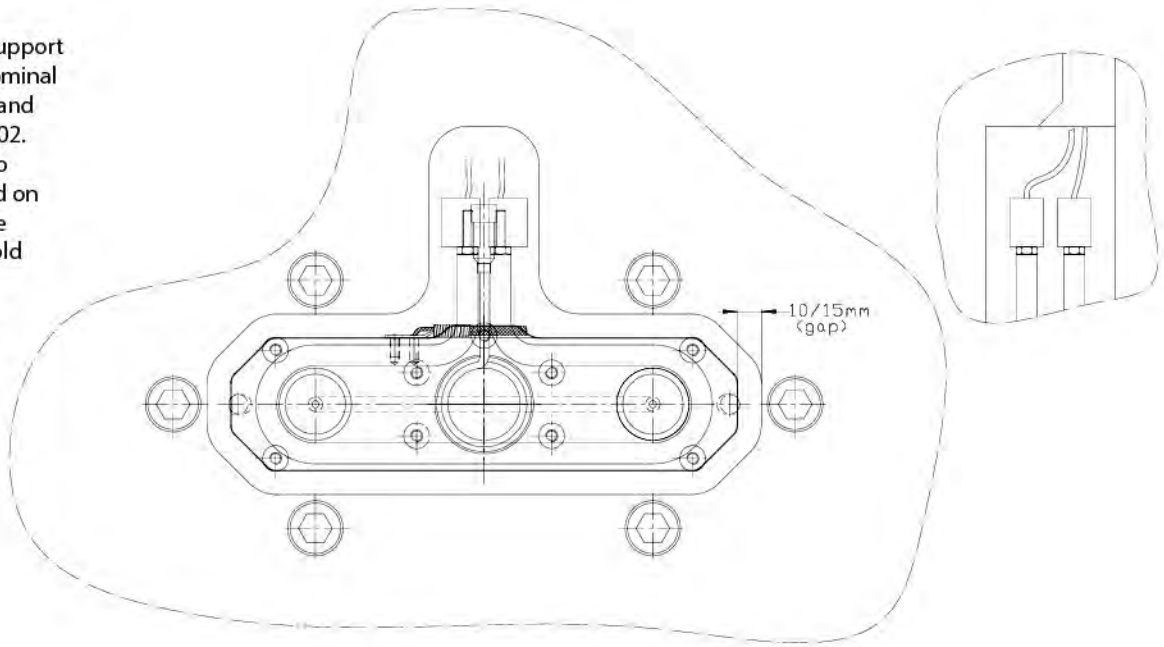
Bore for feed bush with heater

Power	White (2x)	Power
	Yellow/Green	Earth
Thermocouple	Blue	Minus [-]
	Red	Positive [+]

Assembly example



PLEASE NOTE:
The ceramic back support is delivered with nominal dimension 7 +0,02 and 10+0.02 and 14 +0,02. This is to be grind to dimension specified on our GA drwg to give correct air gap in cold condition. And to ensure sealing hot runner in working temperature.



Heat expansion	ΔT = 120°C	ΔT = 140°C	ΔT = 180°C	ΔT = 200°C	ΔT = 220°C
Manifold thickness 36	0,05	0,06	0,08	0,09	0,10
Manifold thickness 46	0,07	0,08	0,10	0,11	0,12
Manifold thickness 56	0,08	0,09	0,12	0,13	0,15

→ Global Hot Runner Solutions

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Fill in the form and fax to us : (86) 757-2991 5860
For further information, please visit our website : www.heatlock.com

HEATLOCK MOULDING SYSTEM QUOTE REQUEST FORM

Customer Quote No:		Date:
Company:		Contact:
Address:		
Tel:	Fax:	E-mail:

Please provide the following information, for quotation

Product Description:			
Material: ☐ Glass Filled: _____ % ☐ Frame Retardant ☐ Else: _____	☐ PP ☐ PE ☐ PS ☐ SB ☐ EVA ☐ ABS ☐ POM ☐ SAN ☐ PA6 ☐ PMMA ☐ ASA ☐ CAB ☐ PBT ☐ PA66 ☐ PC ☐ PC/ABS ☐ PPS ☐ PET ☐ PES ☐ PPO ☐ PSU ☐ PEEK ☐ LCP ☐ PEI ☐ PVC S/H		
Per Product Weight:		No. of Cavities:	
No.of Gates Per Product:	Size of Product (L*W*H):		Wall Thickness:
Description of Gate Finish:	☐ Sprue-gate ☐ Point-gate ☐ Valve-gate		
Colour: ☐ Transparence	Color or Material Change Necessary: ☐ Yes ☐ No		Controller: ☐ Yes ☐ No
Nozzle Length:		Thickness of 'A' Plate:	
Feed Bush R=		Feed Bush Heater: ☐ Yes ☐ No	
Hot Half: ☐ Yes	Insulation Plate: ☐ Yes	Project Book: ☐ Chinese ☐ English	
Remarks:	Drawing:		

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ph: +86 757 2991 5868
fx: +86 757 2991 5860

Order & info:
frontdesk@heatlock.com

For a complete list of our distributor around the world,
please refer to our website **www.heatlock.com**