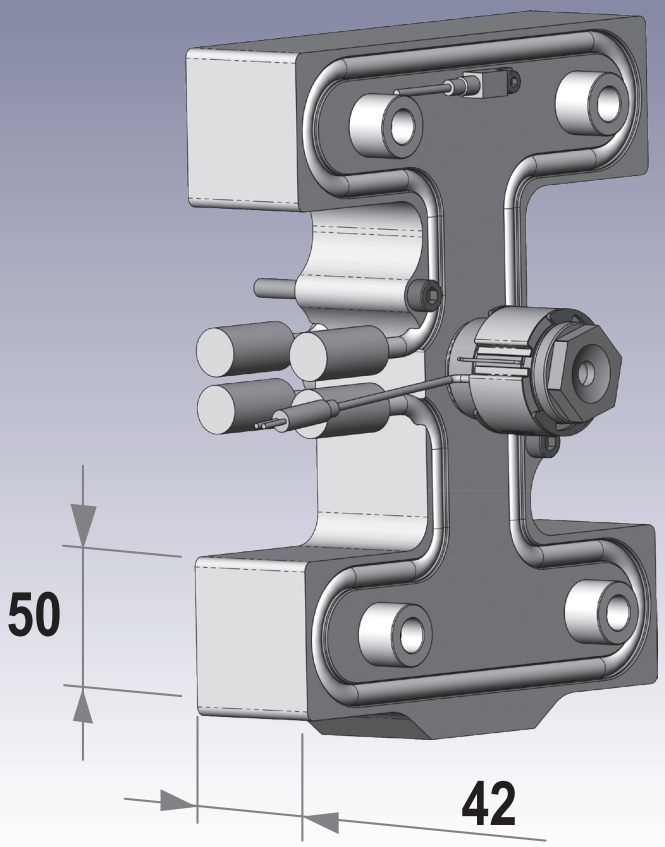
Hot Runner Manifold Series V-42

Catalog



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Hot Runner Manifold Series V-42

Hot Runner System - Thrust Pad Manifold

Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.

Product Type

V-42 manifold for open flow bore.

Hot runner manifold of series V-42 which are characterised by the following dimensions:

	J2	M
Flow bore (Standard)	Ø 9 mm	42 mm
Flow bore (optional / max.)	Ø 10 mm	45 mm

The manifolds can be supplied in standard shapes (I, H, X, Y) and in any realizable customized shape.

The runners of standard manfiolds are mechanically balanced.

Components

Melt flow components

1. Manifold block including heaters, connections and thermocouple.
2. Inlet bushing (including heater).

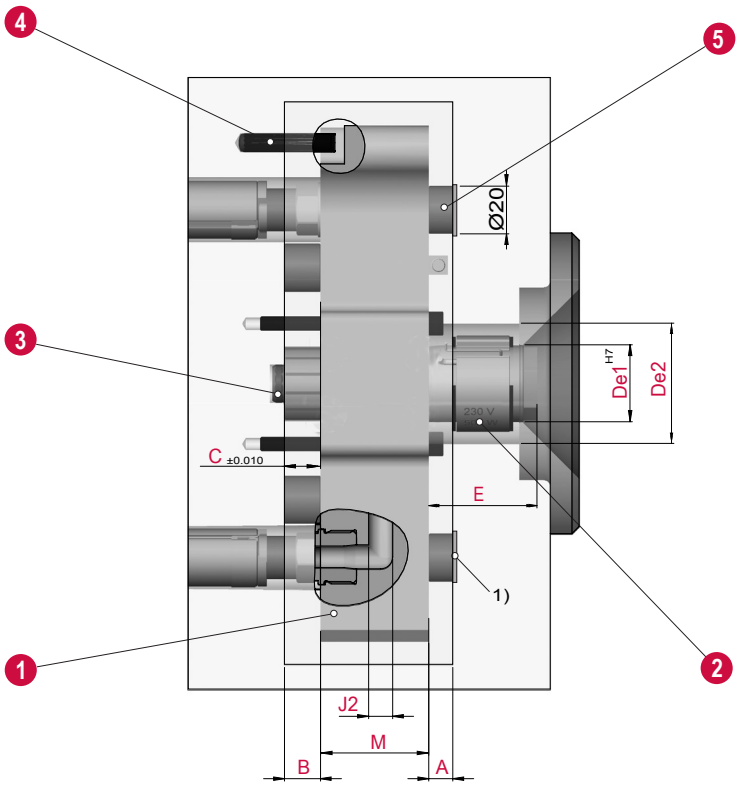
Attached parts and accessories

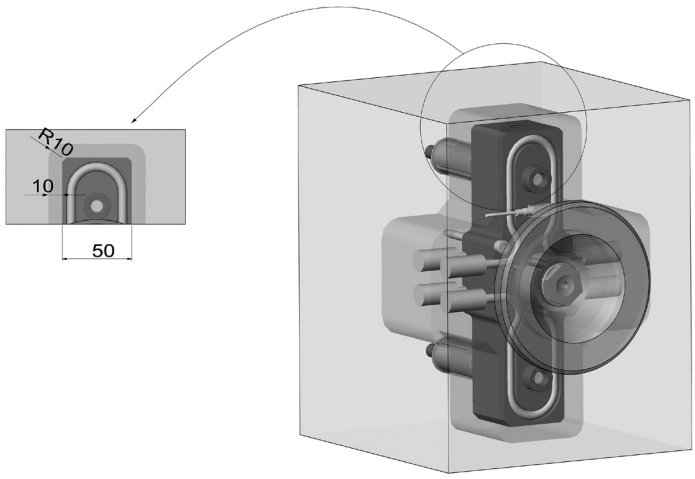
3. Center support
4. Dowel
5. Thrust pad

Major Dimensions (mm)

A	Manifold cutout, right (above)	10
B	Manifold cutout, left (below)	15
C	Height center support	15
	IB24	
De1	Ø of contact inlet bushing	Ø24
De2	Ø of cutout inlet bushing	Ø40
E	Height inlet bushing	15/45/ 65/85
	IB32	
De1	Ø of contact inlet bushing	Ø32
De2	Ø of cutout inlet bushing	Ø50
E	Height inlet bushing	15/45/ 65/85

1) Hardened insert recommended; is not supplied with the hot runner system.





Inlet Bushings

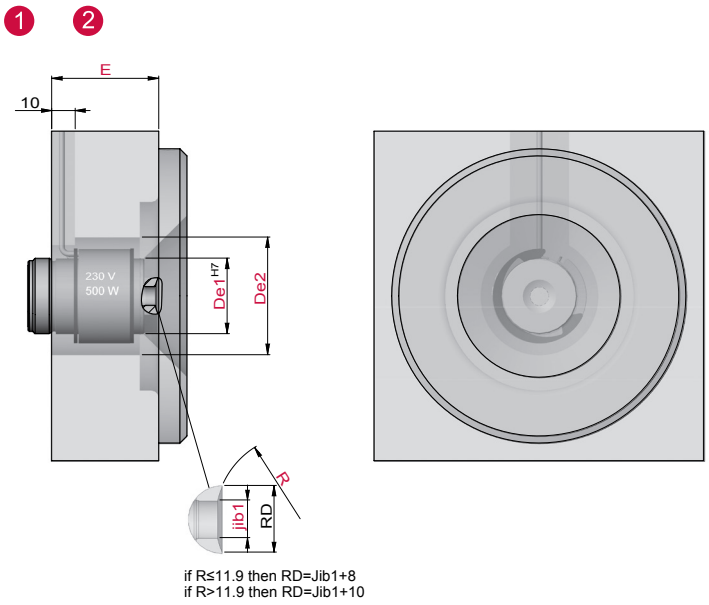
Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.

Inlet bushings which can be combined with hot runner manifolds of series V-42:

1. IB24...15...45...65...85
2. IB32...15...45...65...85

→ all length's heated

→ threaded into manifold



if R≤11.9 then RD=Jib1+8
if R>11.9 then RD=Jib1+10

Type	E (mm)	De1 (mm)	De2 (mm)	R (mm)	Jib1 (mm)		Heater power (Watt)
IB24-015	15	24	40	max. 40	6		-
IB24-045	45	24	40	max. 40	6		220W
IB24-065	65	24	40	max. 40	6		300W
IB24-085	85	24	40	max. 40	6		380W
IB32-015	15	32	50	max. 40	6 / 8 / 10		-
IB32-045	45	32	50	max. 40	6 / 8 / 10		400W
IB32-065	65	32	50	max. 40	6 / 8 / 10		400W
IB32-085	85	32	50	max. 40	6 / 8 / 10		445W

Attached Parts and Accessories

Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.

Attached parts and accessories for hot runner manifolds of series V-42

1 MCS30-15-03

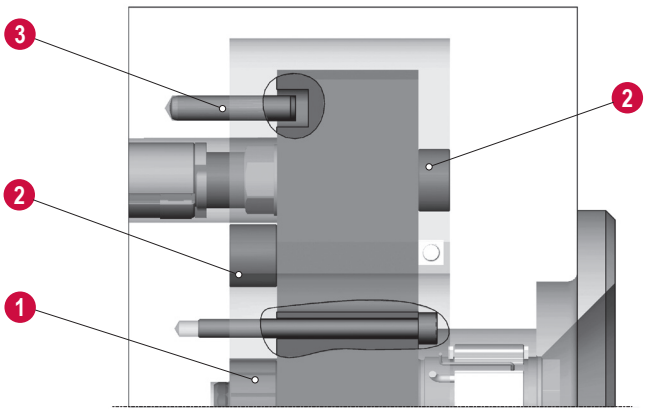
Center support	Lcs (mm)	-
MCS30-15-03	15	

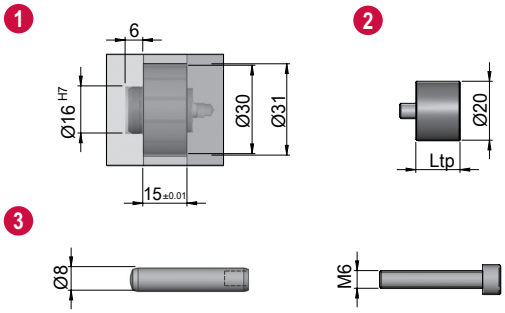
2 Thrust Pad

Thrust pad	L_{TP} (mm)	-
TP20-10-01	10	
TP20-15-01	15	

3 Dowel

→ DIN7979: 6 m6





Manifold Types and Styles

Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.

1 Manifolds in Standard Shape

Manifolds in standard shape have been designed by implementing the standard cavity and runner layouts which are widely used in practice: I, H, X and Y.

Shown on the right there are several examples for manifolds in standard shape based on the components of series V-42. They are designed and made according to the customer's specification.

Using capital letters to describe the different manifold types does not only refer to the shape of the manifold but also to the runner layout inside the manifold. The number represents the number of nozzles attached to the manifold.

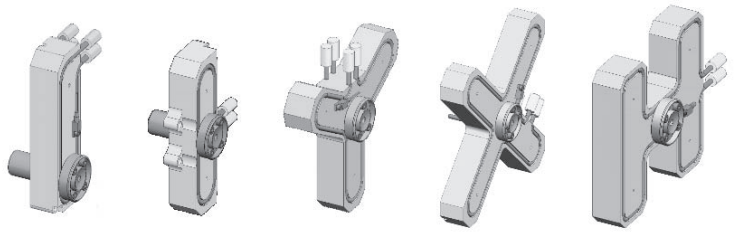
2 Manifolds in Customised Shape

Manifolds in customised shape are designed and made according to the customer's specification by using components of the selected manifold series.

3 Bridge Manifolds

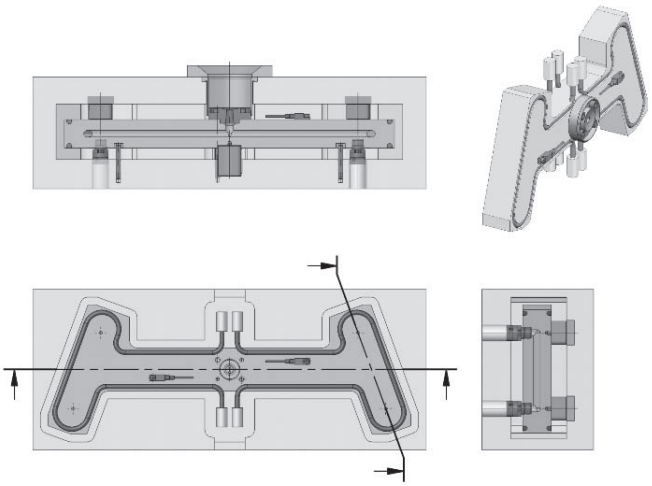
Bridge manifolds make it possible to combine several manifolds to one feed system. They are are designed and made according to the customer's specification by using components of the selected manifold series.

1



I1 | I2 , I3, I4 ... | Y3 ... | X4 ... | H4 ...

2



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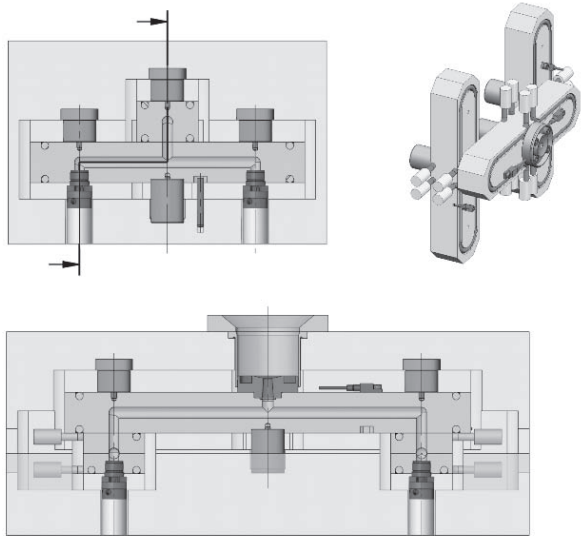

www.synventive.com

North America

Synventive Molding Solutions Inc.
10 Centennial Drive
Peabody, MA 01960
Tel.: +1 978 750 8065
Fax: +1 978 646 3600
Email: info@synventive.com

Europe

Synventive Molding Solutions GmbH
Heimrodstraße 10
P. O. Box 3123
64625 Bensheim
Tel. :+49 (0)6251 9332-0
Fax :+49 (0)6251 9332-90
Email: infohrde@synventive.com

Asia

Synventive Molding Solutions (Suzhou) Co. Ltd.
12B Gang Tian Industrial Square
Suzhou Industrial Park, China 215021
Tel.: +86 512 6283 8870
Fax: +86 512 6283 8890
Email: infohrcn@synventive.com

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