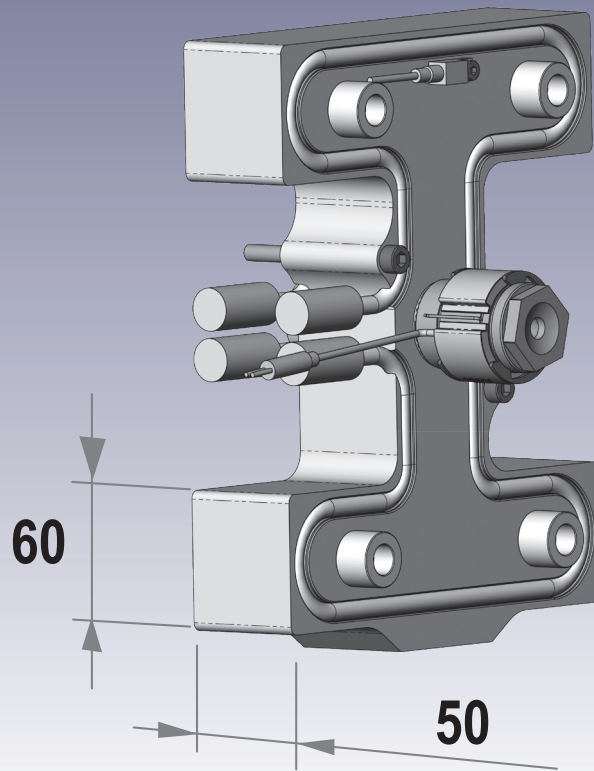


# Hot Runner Manifold Series V-50

## Catalog



Stabilize your Process \_\_\_\_\_



Hot Runner System - Bolt Down Manifold

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

**Product Type**

Hot runner manifold V-50 series are characterised by the following dimensions:

	J2	M
Flow bore (Standard)	Ø 12 mm	50 mm
Flow bore (optional / min.)	Ø 10 mm	50 mm
Flow bore (optional / max.)	Ø 14 mm	55 mm

**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 Support pillar
- ⑤ Dowel

- ⑥ Fastening screw

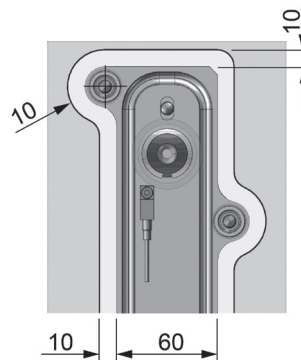
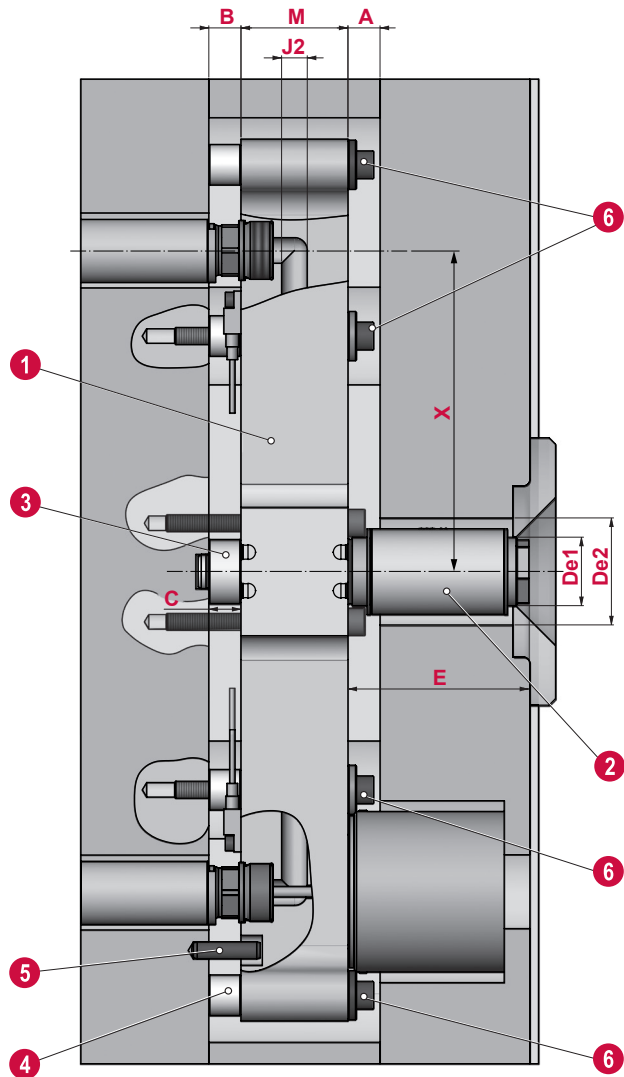
No screws at center support position if X is smaller than 150 mm.

**Major Dimensions (mm)**

- A** Manifold cutout, right (above) 15
- B** Manifold cutout, left (below) 15
- C** Height center support 15

**IB32**

- De1** Ø of contact inlet bushing Ø32
- De2** Ø of cutout inlet bushing Ø50
- E** Height inlet bushing 15/45/65/85





## Attached Parts and Accessories

Attached parts and accessories for the V-55 Bolt Down style manifold.

**3 Center support**

Center support	Lcs (mm)
MCS30-20-03	15

**4 Support pillar**

Support pillar	Dsp (mm)	Lsp (mm)
MSPL 13 15	ø13	15

**5 Dowel**

→ DIN7979: 8 m6

**6 Fastening screws**

→ DIN912: M8x85

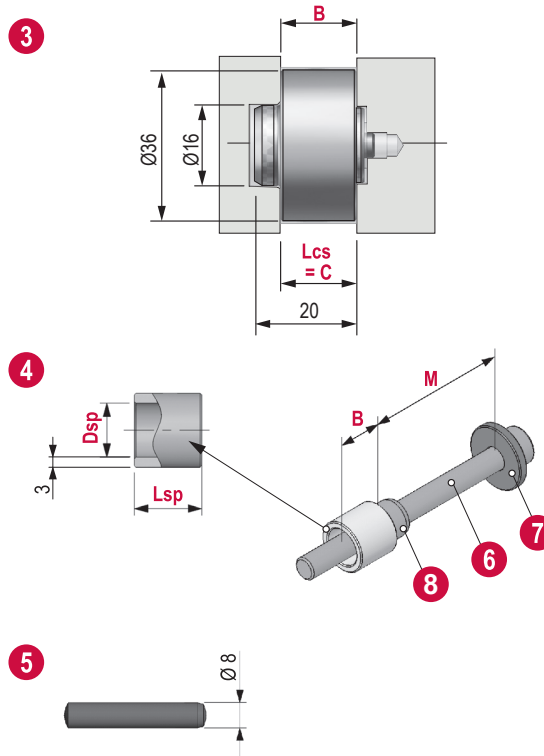
**7 Washers**

→ DIN6340: 8.4-ST

**8 Spring dowel**

→ DIN7346: 13x20 ST

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





Hot Runner System - Thrust Pad Manifold

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

**Product Type**

Alternatively, the V-50 series can be supplied with Thrust Pad Support.

Hot runner manifold V-50 series are characterised by the following dimensions:

	J2	M
Flow bore (Standard)	Ø 12 mm	50 mm
Flow bore (optional / min.)	Ø 10 mm	50 mm
Flow bore (optional / max.)	Ø 14 mm	55 mm

**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) Thrust pad
- 5) Dowel
- 6) Fastening screw

**Major Dimensions (mm)**

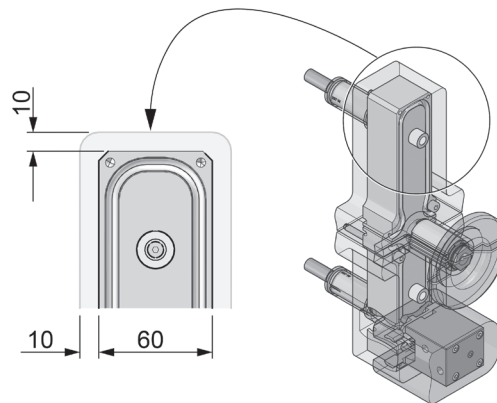
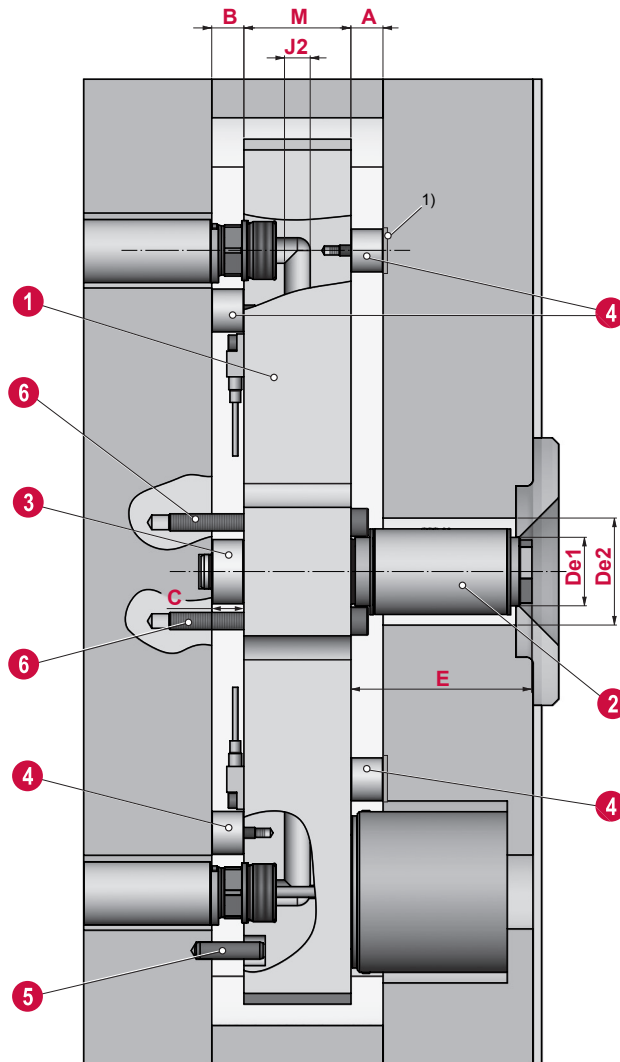
- A Manifold cutout, right 15 (above)
- B Manifold cutout, left 15 (below)
- C Height center support 15

**IB32**

De1 Ø of contact inlet bushing Ø32

De2 Ø of cutout inlet bushing Ø50

E Height inlet bushing 15/45/65/85



1) Installation of hardened insert opposite thrust pad is recommended. Not supplied with the hot runner system.



Attached Parts and Accessories

Attached parts and accessories for the V-50 with Thrust Pad style manifold.

3 Center support

Center support	Lcs (mm)
MCS36-15-03	15

4 Thrust pad

→ TP20-15-01

→ TP20-10-01

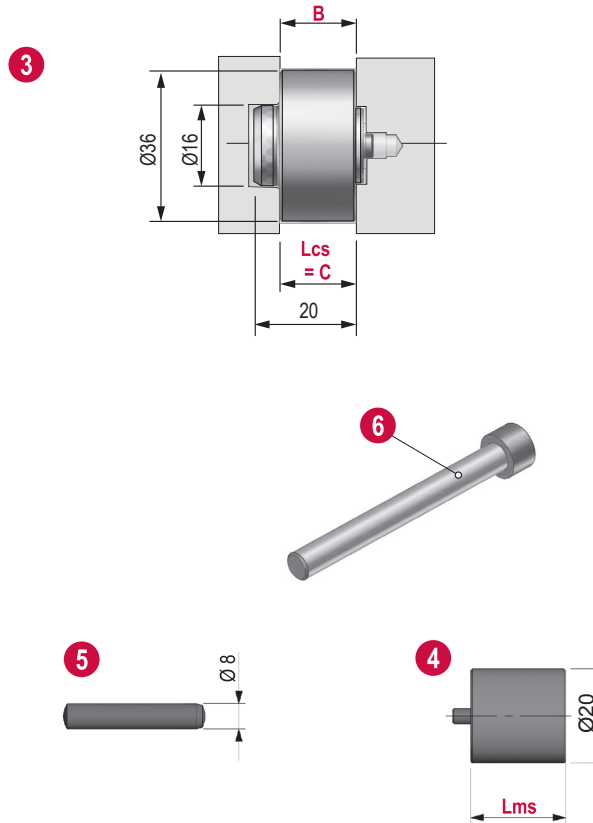
5 Dowel

→ DIN7979: 8 m6

6 Fastening screws

→ DIN912: M8x85

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



Installation of hardened insert opposite thrust pad is recommended. Not supplied with the hot runner system.



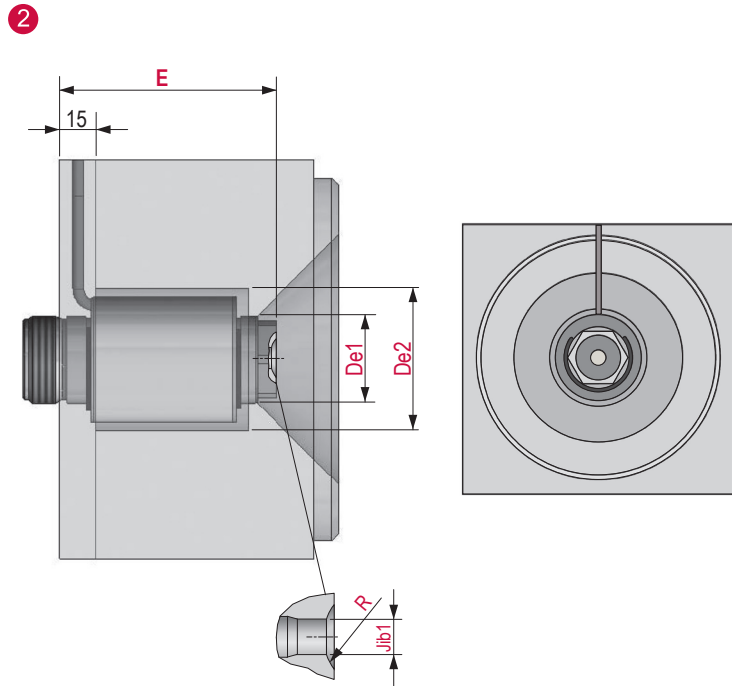
Inlet Bushings

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-50:

- ② IB32...15...45...65...85

→ threaded into manifold



Type	E (mm)	De1 (mm)	De2 (mm)	R (mm)	Jib1 (mm)	Heater power (Watt)
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



## 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-50. They are designed and made according to the customer's specification.

Using capital letters to describe the different manifold shapes 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.

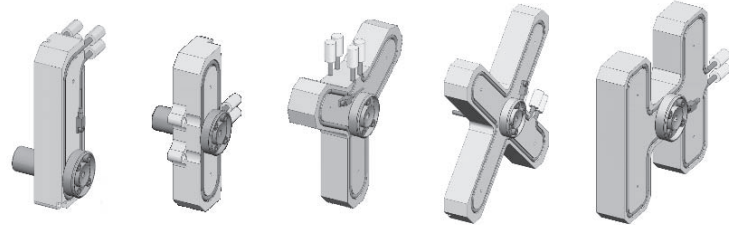
**2 Manifolds in Customised Shape**

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 designed and made according to the customer's specification by using components of the selected manifold series.

1



I1

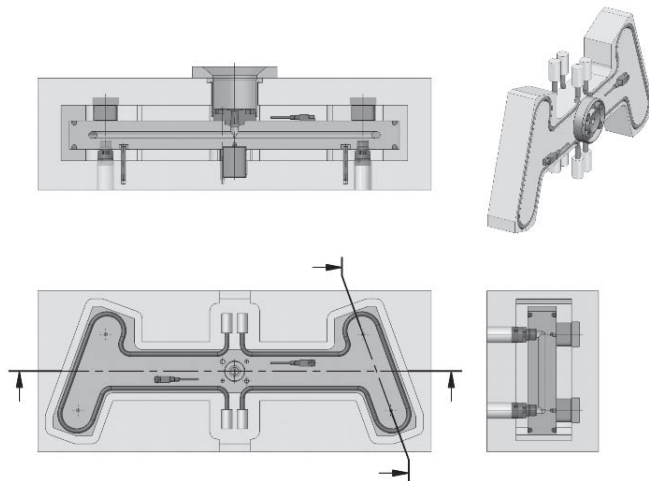
I2, I3, I4 ...

Y3 ...

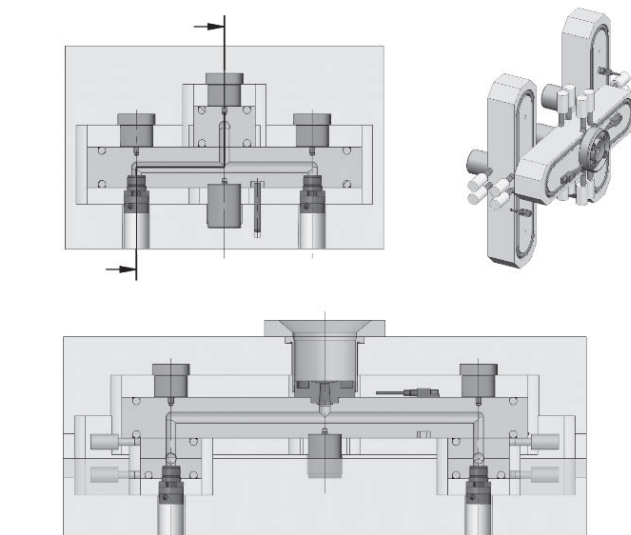
X4 ...

H4 ...

2



3



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](mailto: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](mailto: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](mailto:infohrcn@synventive.com)

