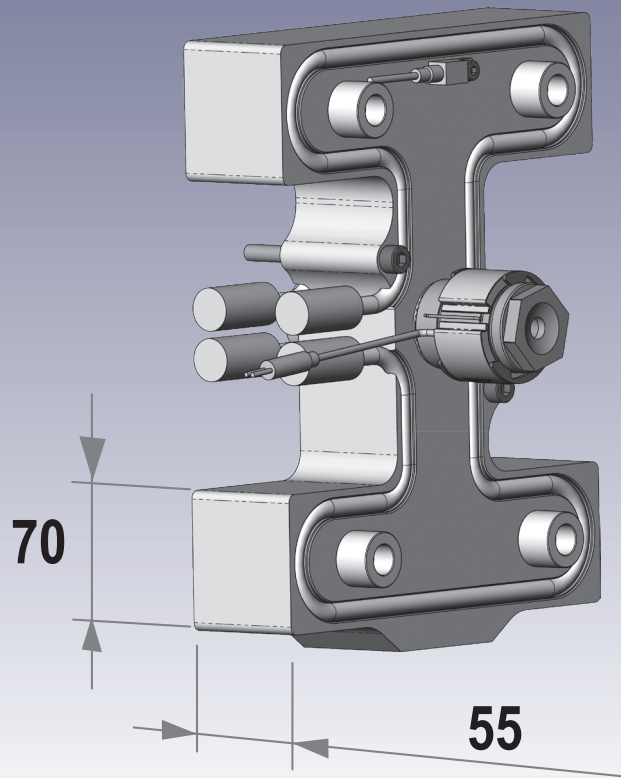


# Hot Runner Manifold Series V-55

## 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-55 series are characterised by the following dimensions:

	J2	M
Flow bore (Standard)	Ø 16 mm	55 mm
Flow bore (optional / min.)	Ø 14 mm	55 mm
Flow bore (optional / max.)	Ø 18 mm	65 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)**

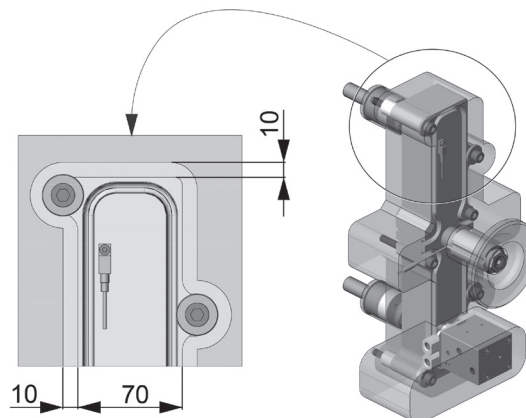
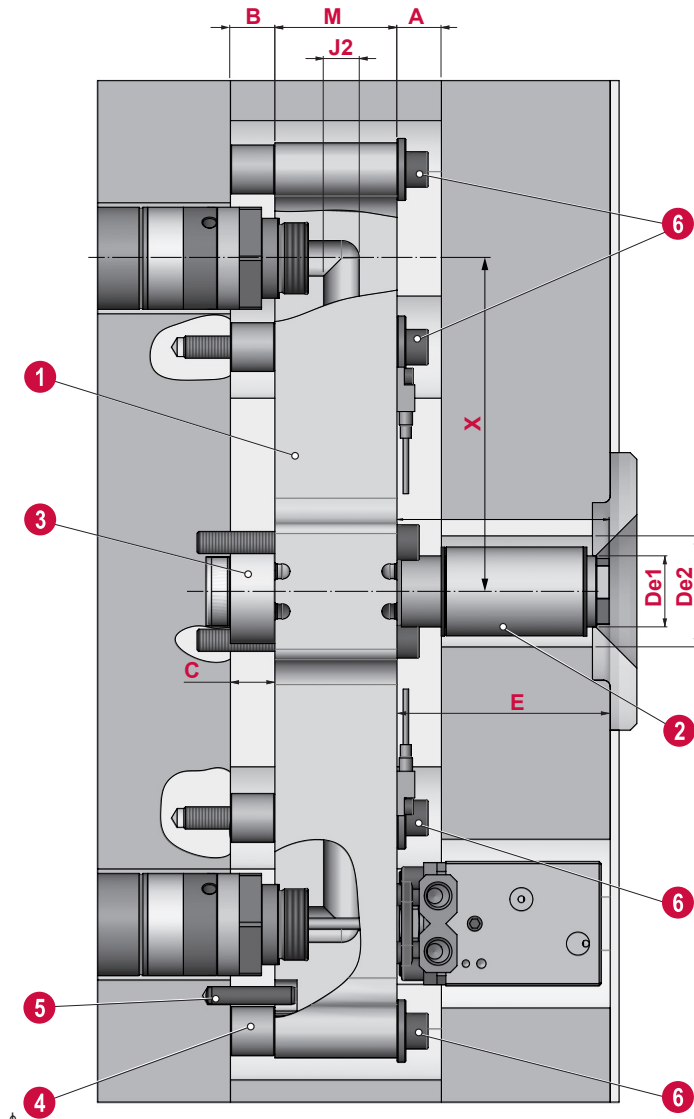
<b>A</b>	Manifold cutout, right (above)	20
<b>B</b>	Manifold cutout, left (below)	20
<b>C</b>	Height center support	20

**IB32**

<b>De1</b>	Ø of contact inlet bushing	Ø32
<b>De2</b>	Ø of cutout inlet bushing	Ø50
<b>E</b>	Height inlet bushing	15/45/65/85

**IB50**

<b>De1</b>	Ø of contact inlet bushing	Ø50
<b>De2</b>	Ø of cutout inlet bushing	Ø95
<b>E</b>	Height inlet bushing	25/50/75/100/140





Attached Parts and Accessories

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

3 Center support

Center support	Lcs (mm)
MCS46-20-03	20

4 Support pillar

Support pillar	Dsp (mm)	Lsp (mm)
MSPL 16 20	ø16	20

5 Dowel

→ DIN7979: 8 m6

6 Fastening screws

→ DIN912: M10

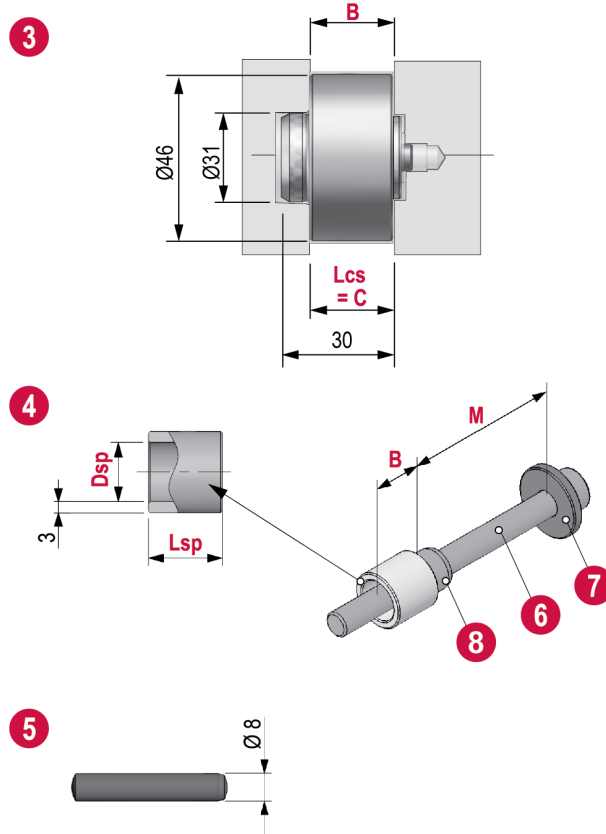
7 Washers

→ DIN6340: 10.5-ST

8 Spring dowel

→ DIN7346: 16x20 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-55 series can be supplied with Thrust Pad Support.

Hot runner manifold V-55 series are characterised by the following dimensions:

	J2	M
Flow bore (Standard)	Ø 16 mm	55 mm
Flow bore (optional / min.)	Ø 14 mm	55 mm
Flow bore (optional / max.)	Ø 18 mm	65 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)**

<b>A</b>	Manifold cutout, right (above)	20
<b>B</b>	Manifold cutout, left (below)	20
<b>C</b>	Height center support	20

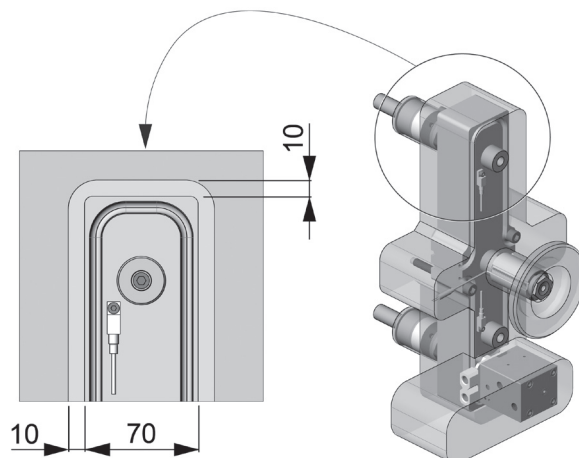
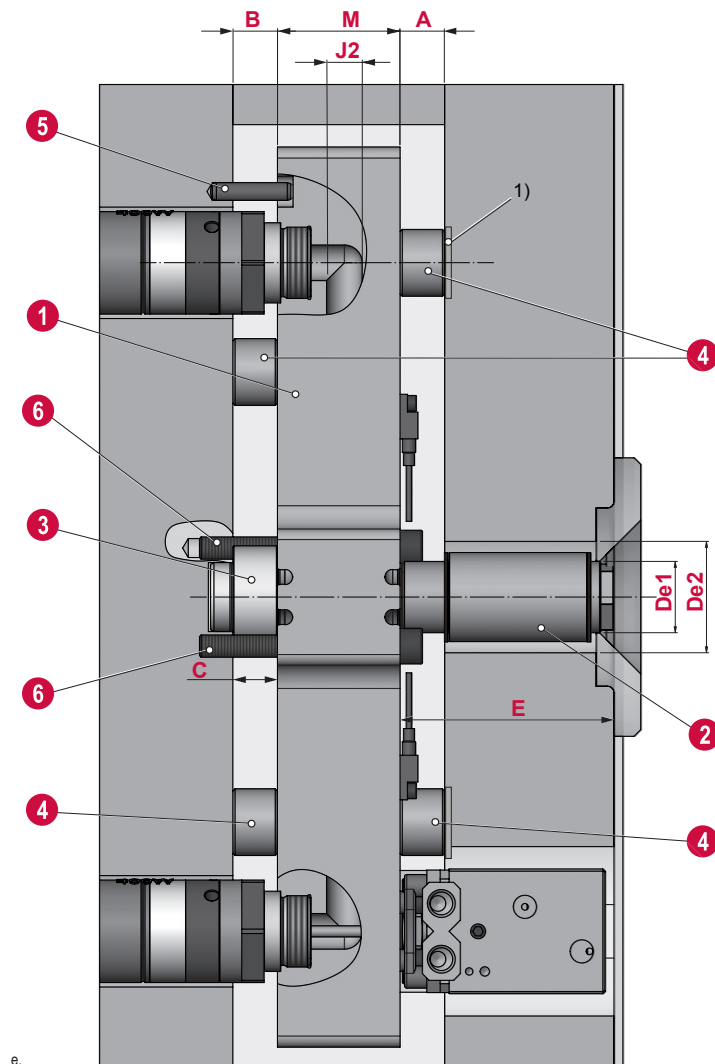
**IB32**

<b>De1</b>	Ø of contact inlet bushing	Ø32
<b>De2</b>	Ø of cutout inlet bushing	Ø50
<b>E</b>	Height inlet bushing	15/45/ 65/85

**IB50**

<b>De1</b>	Ø of contact inlet bushing	Ø50
<b>De2</b>	Ø of cutout inlet bushing	Ø95
<b>E</b>	Height inlet bushing	25/50/75/ 100/140

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





Attached Parts and Accessories

Attached parts and accessories for the V-55 with Thrust Pad style manifold.

3 Center support

Center support	Lcs (mm)
MCS46-15-03	20

4 Thrust pad

→ 56-30-20

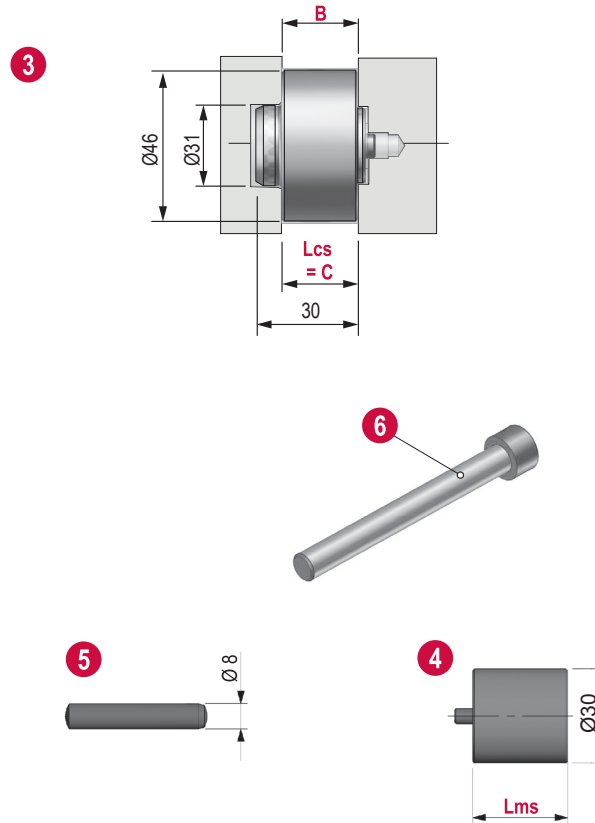
5 Dowel

→ DIN7979: 8 m6

6 Fastening screws

→ DIN912: M10

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.



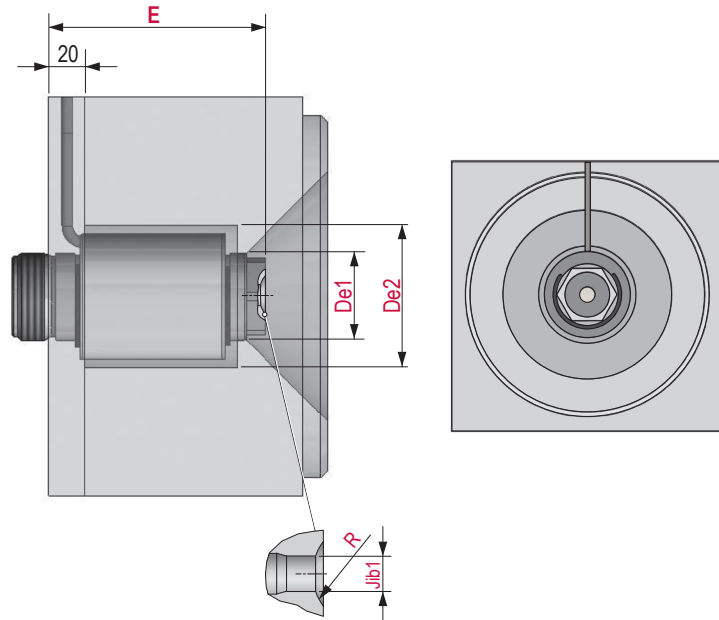
Inlet Bushings

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-55:

- ② IB32...15...45...65...85
- IB50...25...50...75...100...140

→ 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	400
IB32-065	65	32	50	max. 40	6 / 8 / 10	400
IB32-085	85	32	50	max. 40	6 / 8 / 10	445
IB50-025	25	50	95	max. 50	10	-
IB50-050	50	50	95	max. 50	10	400
IB50-075	75	50	95	max. 50	10	450
IB50-100	100	50	95	max. 50	10	500
IB50-140	140	50	95	max. 50	10	630



## 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-55. They are designed and made according to the customer's specification.

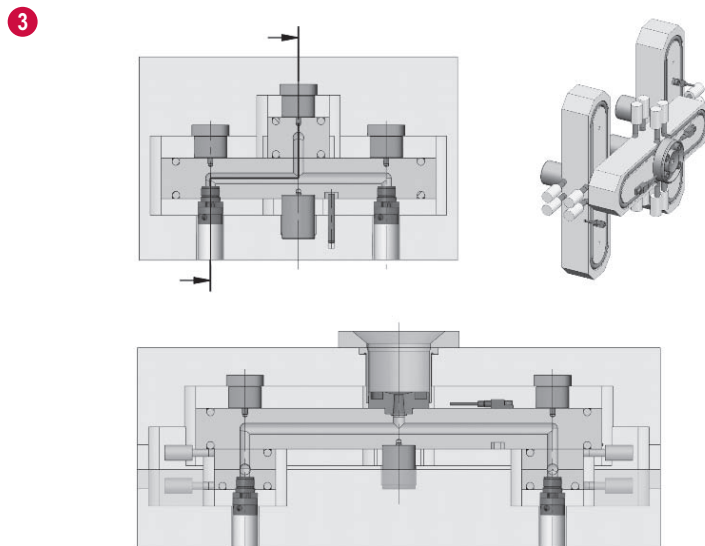
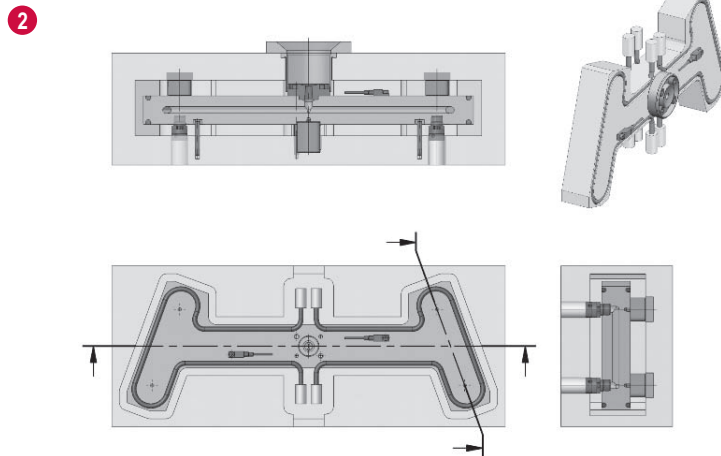
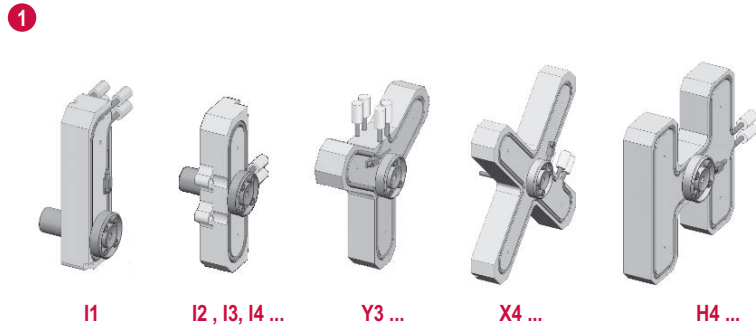
Using capital letters to describe the different manifold shapes does not only refer to the shape of the manifold but also to the runner layout inside the manifold. The number represents the number of nozzles attached to the manifold.

**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.



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