



BARNES™
MOLDING SOLUTIONS

HOT RUNNER TECHNOLOGY

MSG
Performance Line
Product Catalog





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Hot Runner Technology

This catalog gives an overview of the latest product, including descriptions, dimensions and technical data. The text next to the graphics gives additional instructions on the use of the product. If available, options are explained with pictures and text. All available accessories for this product are specified. Where necessary, a separate chapter gives the information and important technical data.

General Description of the Nozzle

Hot runner nozzles are the connection to the cavity. The side gate is intended for direct injection into the part.

General Description of MSG

The nozzles have a patented heating system and are made of special steel. Different lengths are available. The nozzles are suitable for the most commonly used polymers. Lateral injection molding is significantly advantageous for tube shape components such as pipettes, syringes, caps and technical components. For these applications and many more, MSG nozzles represent an economical solution. That does not require sprue or cold runners since the unique nozzle design allows single cavity dismounting and easy access to tips for maintenance. Cylindrical sealing between tip and cavity is a driver for best reliability and lowest power consumption.

Target Group

The target groups of this product catalog are mold designers, toolmakers, molders and service technicians. They will find the needed information in the relevant chapters.

Applied Standards and Norms

- DIN EN IEC/IEEE 82079-1 Edition 2 Creation of usage information for products
- Standard and norms for Technical drawings

Tolerances and Customer Graphics

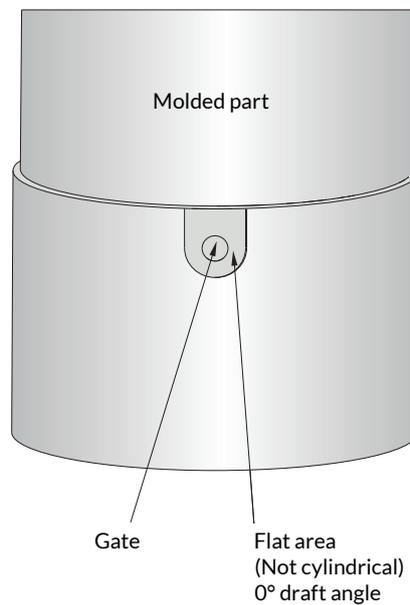
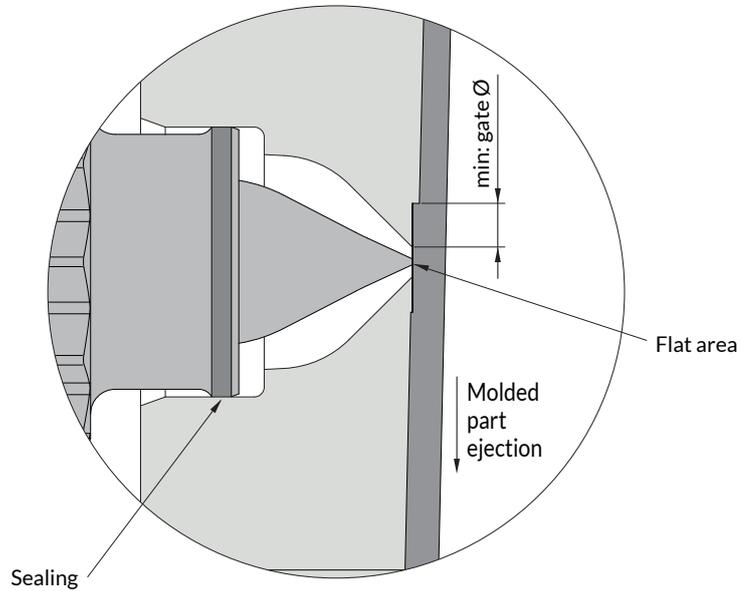
The product catalog gives a general information about the product. For tolerances and other details, use the customer drawings. There you find the detailed information.



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

MSG Nozzles – Gate area specifications

The following pictures shows the standard design and the components.





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

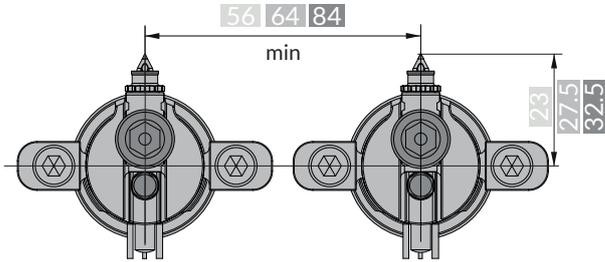
Radial Side Gate

MSG-R1-23-TS5

MSG-R1-27-TS8

MSG-R1-32-TS10

Side gate nozzle with 1 tip.

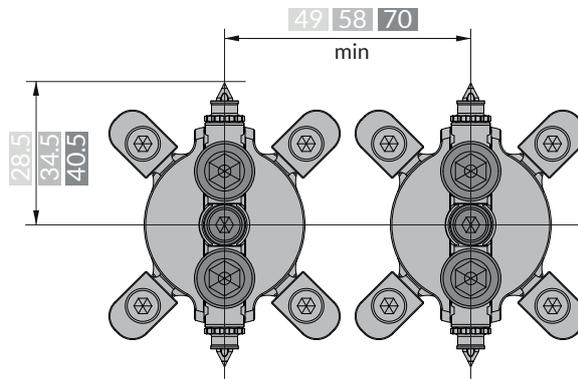


MSG-R2-28-TS5

MSG-R2-34-TS8

MSG-R2-40-TS10

Side gate nozzle with 2 tips.

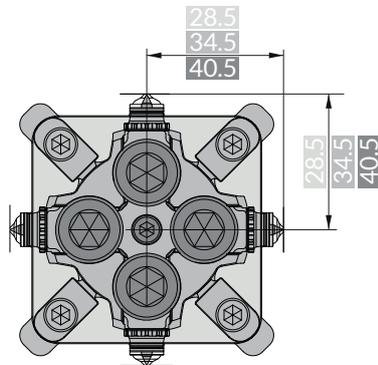


MSG-R4-28-TS5

MSG-R4-34-TS8

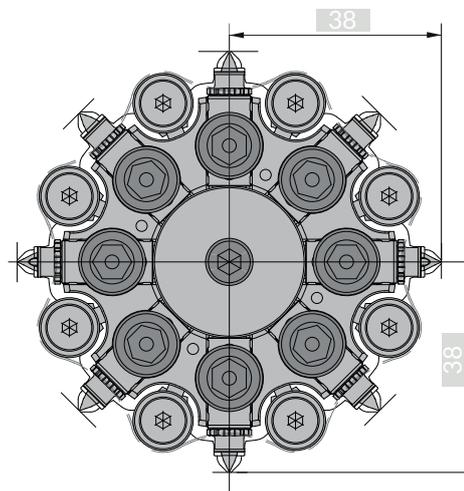
MSG-R4-40-TS10

Side gate nozzle with 4 tips.



MSG-R8-TS5

Side gate nozzle with 8 tips.



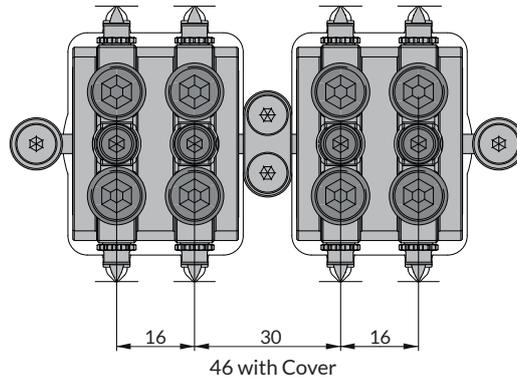


Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.

Linear Side Gate

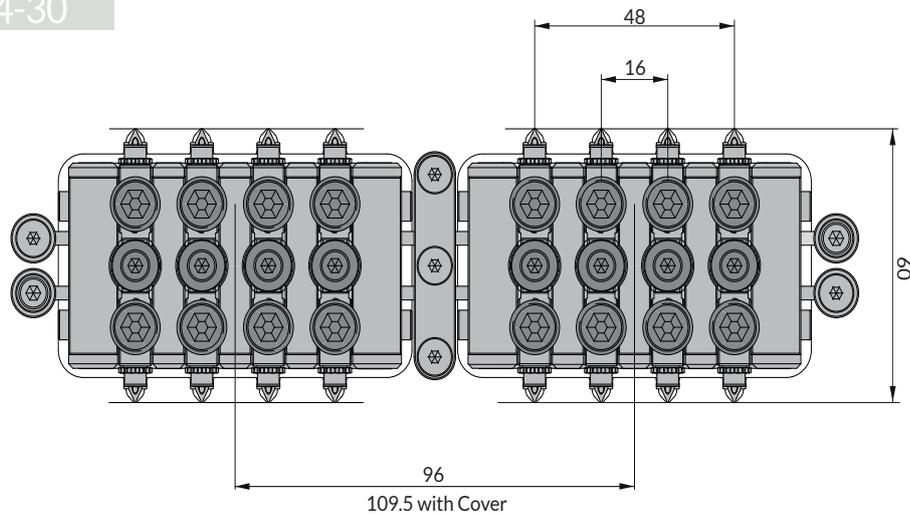
Linear side gate 2+2 is showed.

MSG-L2+2-28



Linear side gate 4+4 is showed.

MSG-L4+4-30





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

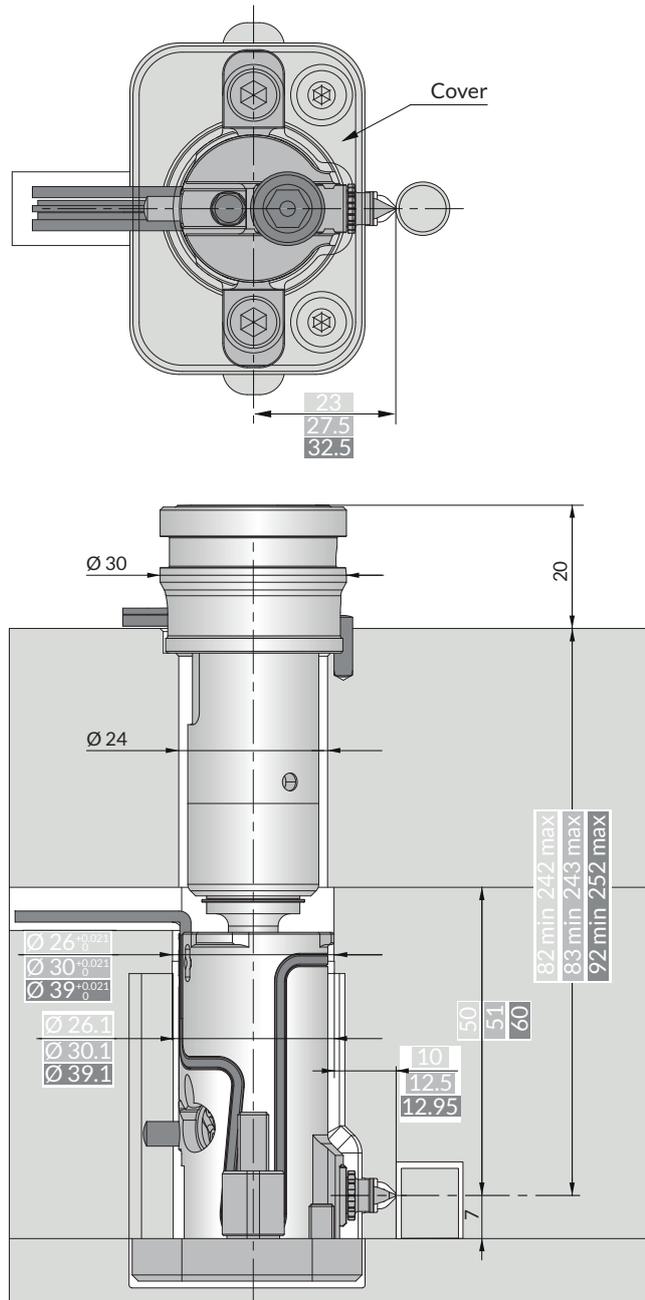
Cutout, Nozzle Length and Tip Style MSG-R1-TS5, TS8, TS10

Radial 1 tip side gate is showed.

MSG-R1-23-TS5

MSG-R1-27-TS8

MSG-R1-32-TS10





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

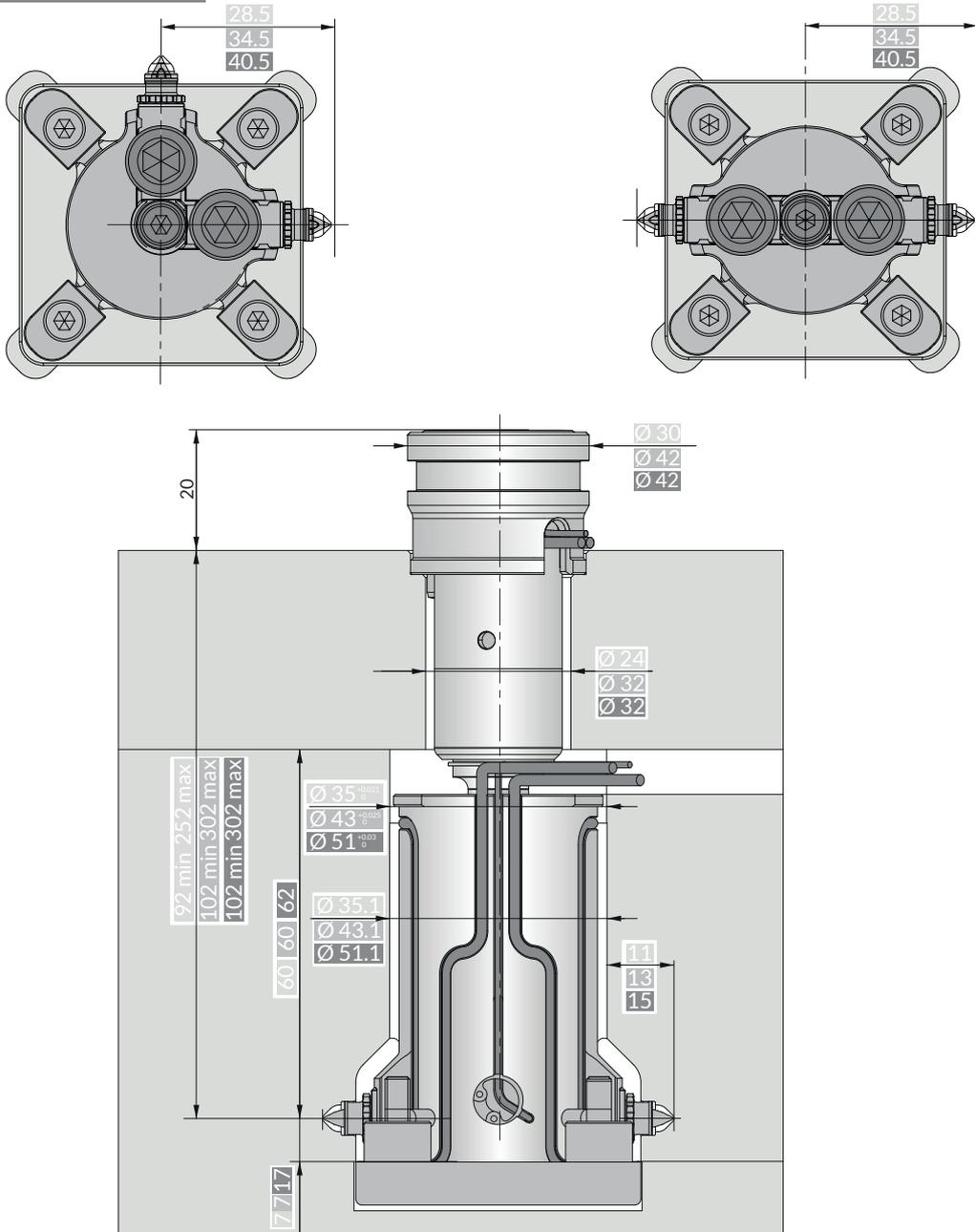
Cutout, Nozzle Length and Tip Style MSG-R2-TS5, TS8, TS10

Radial 2 tips 90° and 180° side gate is showed.

MSG-R2-28-TS5

MSG-R2-34-TS8

MSG-R2-40-TS10





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

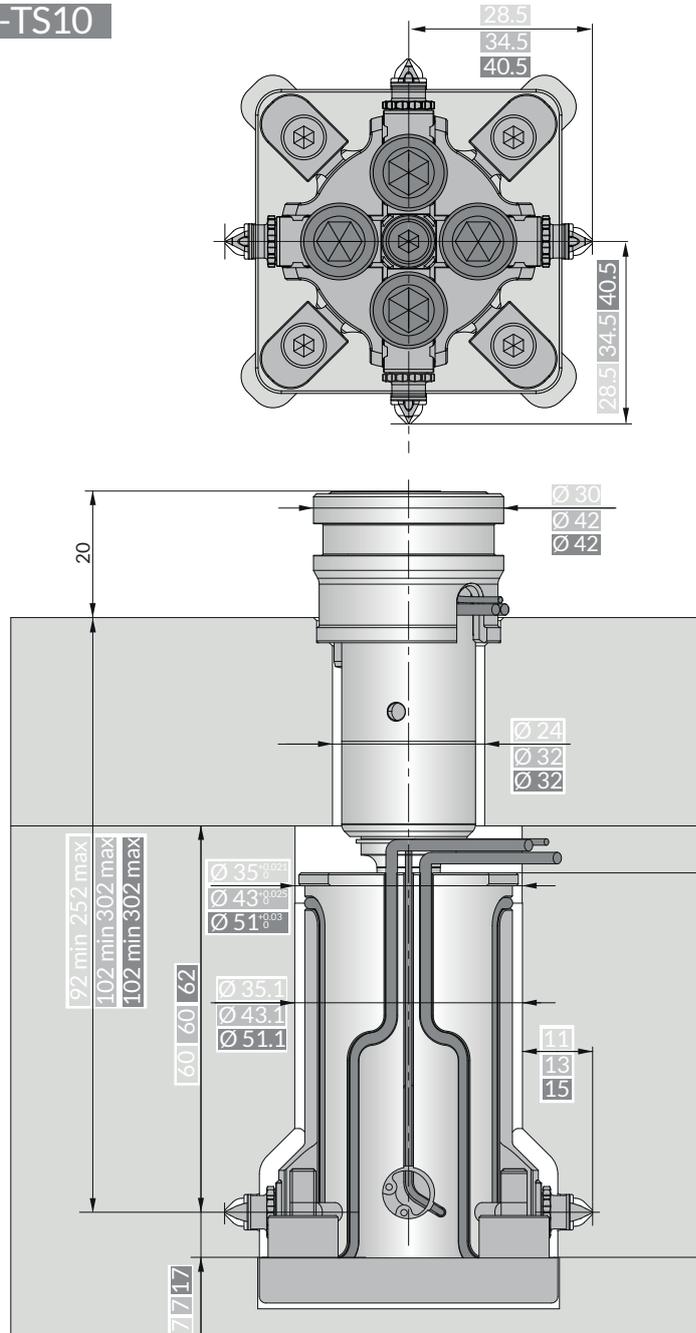
Cutout, Nozzle Length and Tip Style MSG-R4-TS5, TS8, TS10

Radial 4 tips side gate is showed.

MSG-R4-28-TS5

MSG-R4-34-TS8

MSG-R4-40-TS10



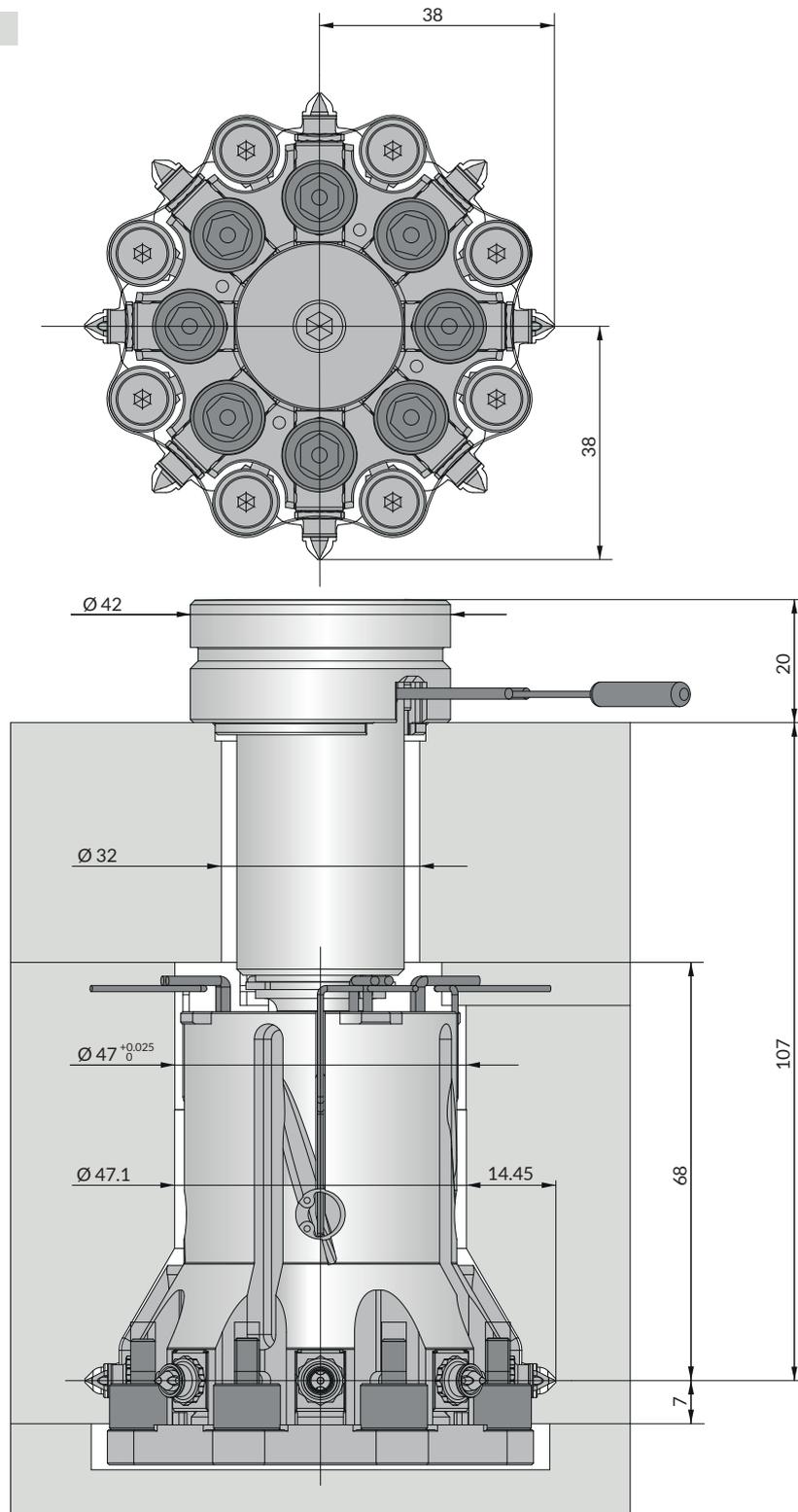


Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.

Cutout, Nozzle Length and Tip Style MSG-R8-TS5

Radial 8 tips side gate is showed.

MSG-R8-TS5



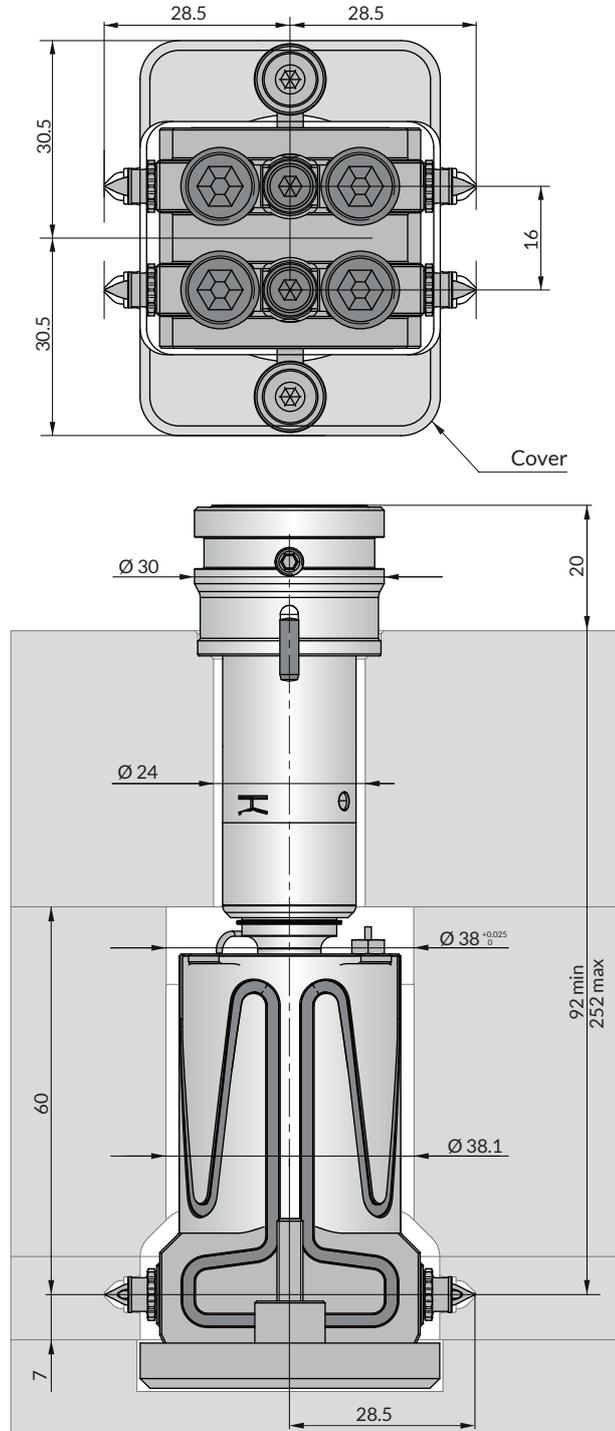


Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.

Cutout, Nozzle Length and Tip Style MSG-L2+2-28

MSG-L2+2-28 is showed.

MSG-L2+2-28



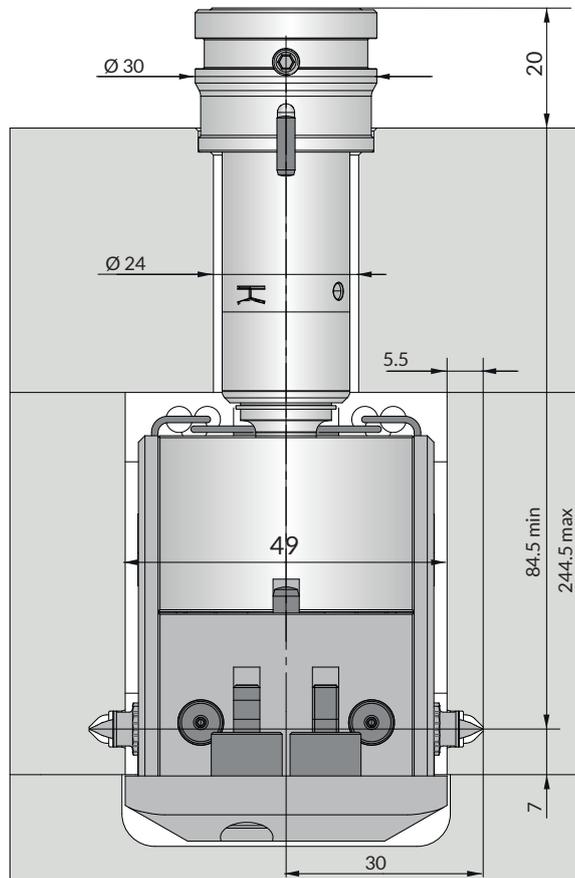
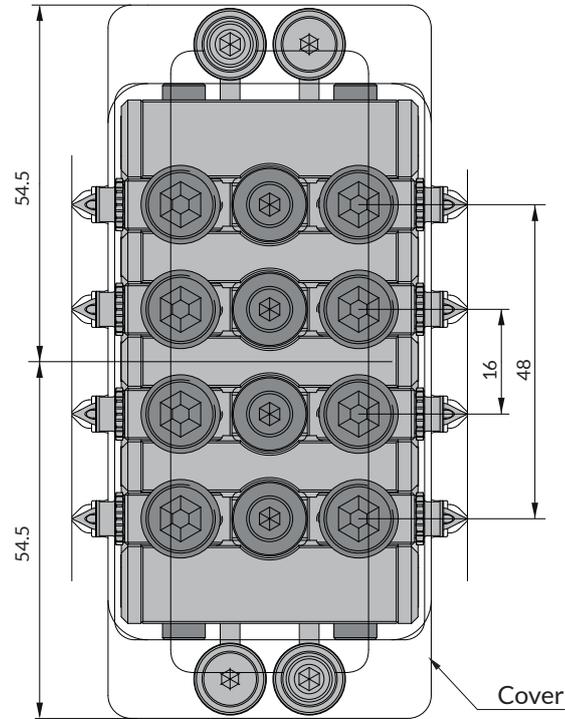


Illustrations simplified, schematically drawn and not to scale. All dimensions in mm.

Cutout, Nozzle Length and Tip Style MSG-L4+4-30

MSG-L4+4-30 is showed.

MSG-L4+4-30





Contact

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