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09/20 Technical specifications subject to change.

## männer Combi Nozzle PACKAGING

Valve Gate Nozzle MCN-P

### Production Locations

[www.maenner-group.com/production\\_locations](http://www.maenner-group.com/production_locations)

### Sales & Service

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## Ensuring Process Reliability in the Production of Thin-Wall Packaging

With the high flow rates and injection speeds required for rapid-process thin-wall packaging, friction within the nozzle tip and on the gate orifice becomes a critical factor. To ensure that the melt reaches the cavity under optimum conditions, we rely on valve gate systems capable of operating within extremely narrow tolerance ranges. At the same time, the geometry of the flow channel within the nozzle greatly impacts results.



Container (IML)



Thin-wall lid



Detergent container, lid with safety lock



Yoghurt container (IML)

# MCN-P Combi Nozzle Packaging

Valve Gate Nozzle for Thin-Wall Packaging

- › Impeccable gate quality
- › Short cycle times for high-speed molds
- › Homogeneous temperature profile even when processing resins with narrow processing windows
- › Reliable processing
- › Basic nozzle body combined with a nozzle tip specifically tailored to the production of thin-wall packaging
- › Exceptionally stabile version for high injection pressures and high injection speeds, featuring reinforced support ring, insulating ring with special wear protection, extra valve pin guide ring
- › Melt flow optimized to take into account the latest advances in fluid dynamics
- › Reinforced valve pin bushing
- › Excellent thermal separation of the nozzles from the mold using specially integrated components
- › Includes new temperature-control element (patent pending)
- › Easy maintenance
- › Available with nominal length of up to 404 mm



### Temperature-control element for homogeneous temperature profile

- › Two functions in one: heating of nozzles and optimization of thermal balance
- › Base shell made of highly heat-conductive alloy
- › Two alternating slots enable easy installation and removal (chucking action)



### Technical Specifications

Suitable for	MSS (SINGLEDROP), MES (STACK SYSTEM)
Nominal nozzle diameter (mm)	22
Length (mm)	79, 104, 129, 154, 179, 204, 229, 254, 279, 304, 329, 354, 379, 404
Examples of plastic types	Polyolefins (MFI 40-100), PP, PE, PE-LD, PE-HD