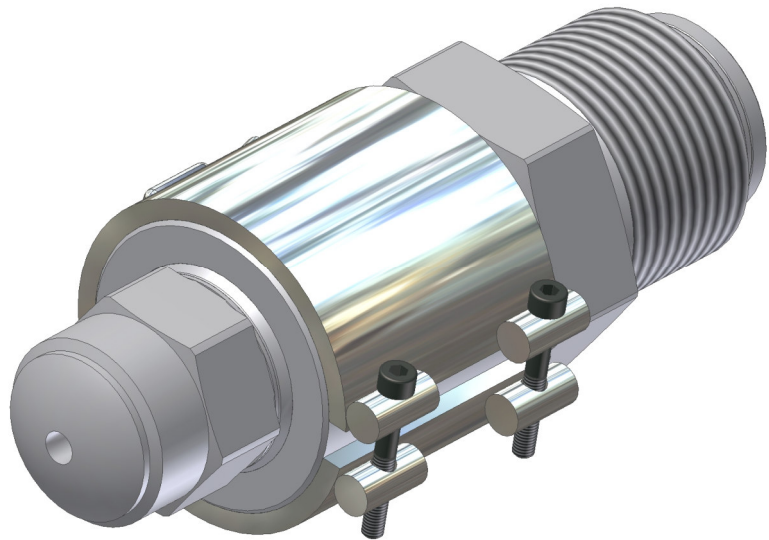


## Machine filter nozzle type FN



**Applications:**  
Thermoplastics (not applicable for PVC)

### Index of contents

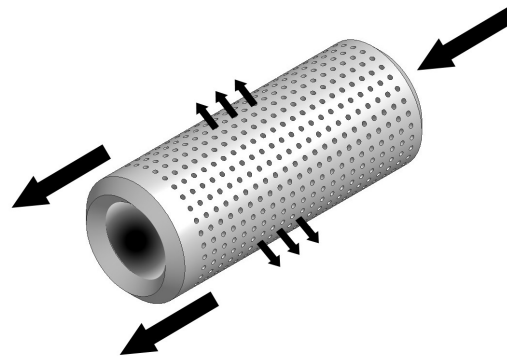
Chapter	Page
Technical description .....	2
Advantages .....	2
Dimension sheet for inquiries or orders .....	3
Operating data and standard dimensions .....	3

## Technical description

A clean melt, free of foreign particles is necessary for the trouble-free and economical production of moulded parts. Almost all thermoplastics can be processed with the FN type filter nozzle. Only PVC is not suitable. By altering the melt flow this nozzle has an additional advantage of a mixing effect which can improve homogenization.

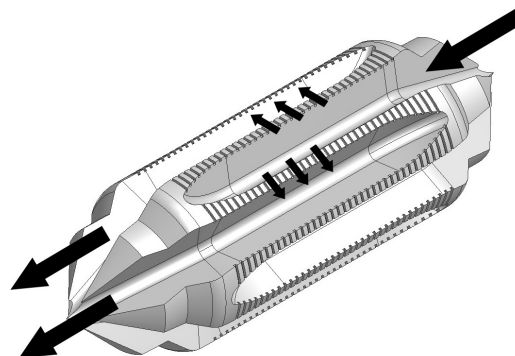
For this nozzle Herzog has developed a choice of two melt filters which are characterized by their compact, yet strong design and can be assembled and prepared for operation in the shortest possible time.

The standard Herzog melt filter is based on a perforated screen as this design has less pressure drop compared to other filter types. This filter type is suitable for filtering particles larger than 0.6mm.



**Screen filter**

The second option is based on a gap filter design which is used for filtering particles smaller than 0.6mm.



**Gap filter**

### Function:

The injected melt flows through a generously dimensioned feed duct and on through the filter element. Any foreign particles which are larger than the holes or gaps are held back in the guide duct. The filtered melt flows on via an outlet duct to the injection mould.

## Advantages of the filter nozzle type FN

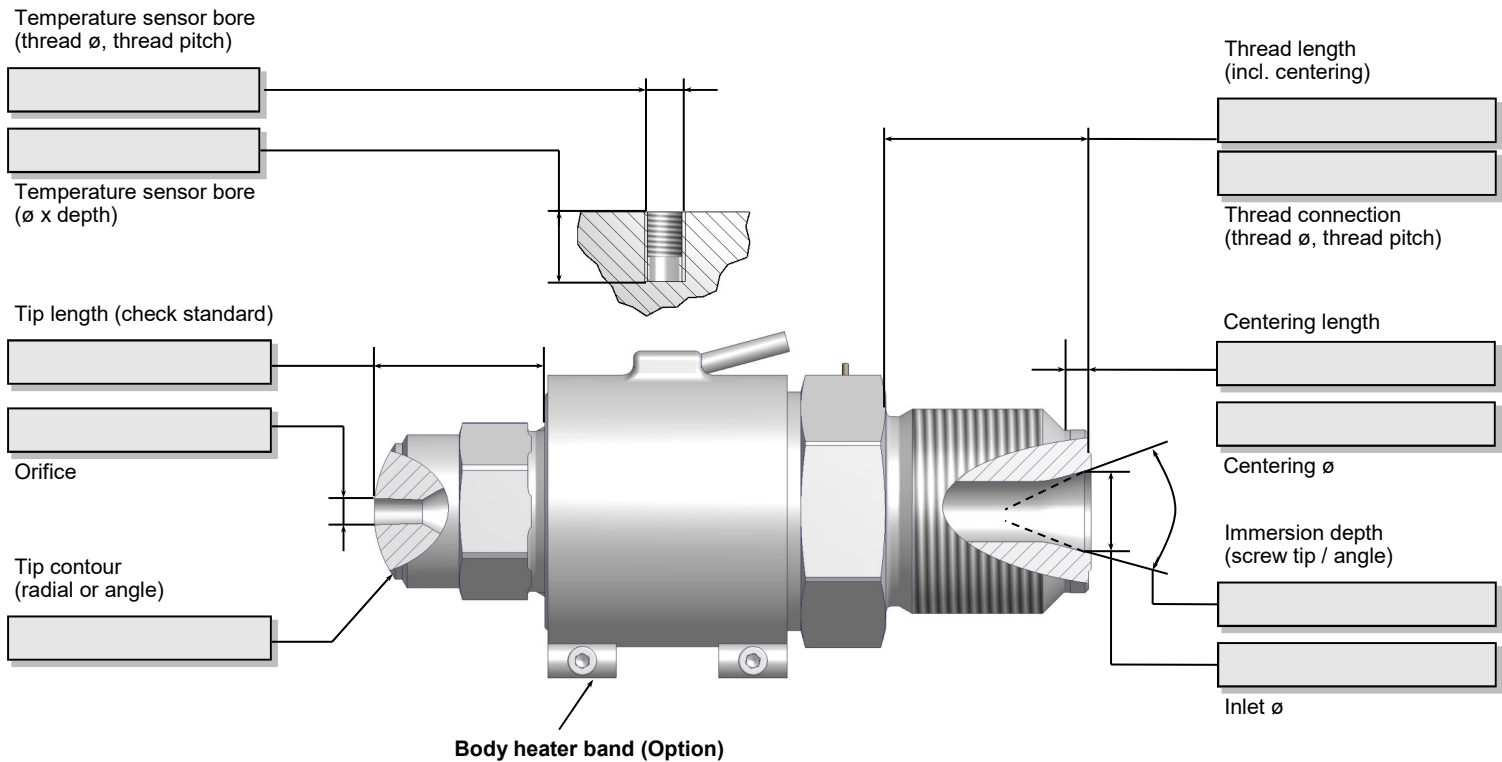
- Helps reduce reject rates due to tainted melt
- Prevents mould and gate blockages due to foreign bodies in the melt
- Helps protect the mould
- Helps melt homogenization (mixing effect)

Dimension sheet for enquiry		or order	Machine filter nozzle type FN
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Company:
Street:
City/Zip:
Country:

Contact person:
Tel.:
Fax:
E-Mail:

Operating data and standard dimensions	FN1	FN2
max. injection rate cm <sup>3</sup> /s based on Polystyrene (PS)	500	1600
approx. screw diameter in mm	25 – 50	50 – 100
max. injection pressure at temperature	2500 bar at 400°C	
standard tip length (other dimensions on request)	20 mm	50 mm
Filter hole (screen filter)	0.6 mm	0.9 mm
body length; without <b>thread and tip length</b>	60 mm	110 mm
heater band dimensions (inside ø * max. length)	ø45 x 40 / 260 W	ø70 x 70 / 730 W



Nozzle size:  FN1  FN2

Processed material:

### Options

Screen type filter (when not standard 0.6mm or 0.9mm)
Gap type filter (for filtering particles smaller than 0.6mm)
Temperature sensor
Body heater band

Required hole size (mm)

Required gap size (mm)

Yes

Yes

### Note:

- Technical modifications reserved.
- We need additional information for requirements, which vary from our standard range e.g. drawing sample. Our customer services will be pleased to help you.