Stainless Steel Filling Needles

Optimized for integration into single-use systems

MEISSNER

Stainless Steel Filling Needles

Meissner's stainless steel filling needles provide a robust, ready-to-use solution for critical Final Fill operations, helping reduce contamination risk and variability at the point of dispense. Each needle combines precision stainless steel tubing with a polypropylene hub that is injection molded directly onto the metal, minimizing machining steps and operator handling. This automated process translates into highly consistent performance that supports stringent aseptic Final Fill requirements.

A range of polypropylene adapters enables seamless integration into a wide variety of filling machine designs, creating modular platform options without the cost and lead time of fully custom needles. Meissner's filling needles are available in multiple sizes to support different dosing volumes. Each stainless steel filling needle is supplied with a pre-installed polycarbonate sheath to protect the tip and tubing during handling and transport.

Product Specifications

Materials of Construction

The fluid path is constructed of a passivated stainless steel tube. The hub and hose barb are injection molded polypropylene. All fluid path materials are certified Animal Component Free (ACF). The needles are provided with a non-fluid contact protective polycarbonate sheath.

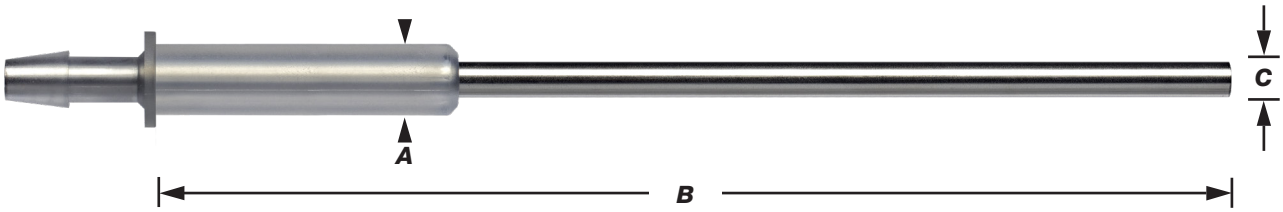
Regulatory Compliance

- Bacterial Endotoxins Test, USP <85>
- Biological Reactivity Tests, *In Vitro,* USP <87>
- Biological Reactivity Tests, *In Vivo* for Class VI-121 °C Plastics, USP <88>
- Physicochemical Tests for Plastics, USP <661>
- Particulate Matter in Injections, USP <788>

Product Qualification

- Shelf life
- Dosing accuracy
- Dimensional testing
- Gamma irradiation

Standard Needle

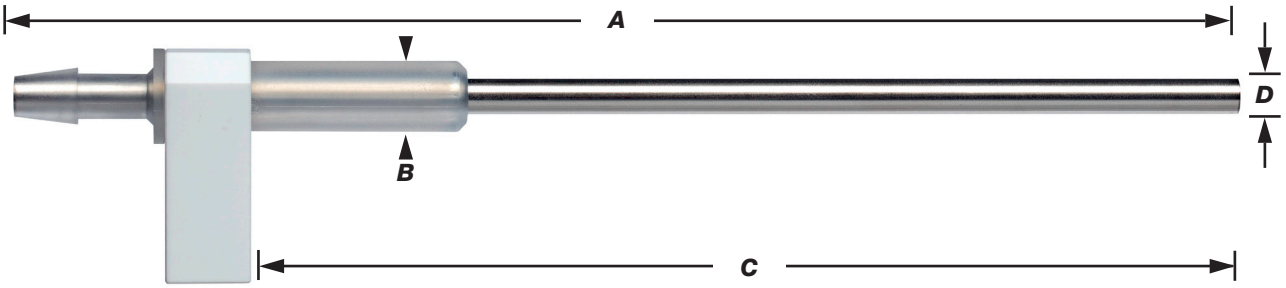


Part Number	Nominal ID (mm)	Hose Barb Size (in)	Hub Diameter A (mm)	Functional Lengths B (mm)	Outer Diameter C (mm)
FTN[y*]11-N00-[x†]-01	1.1	1/8"	7.95	97, 121, and 138	1.8
FTN[y*]15-N00-[x†]-01	1.5	1/8"	7.95	97, 121, and 138	1.8
FTN[y*]21-N00-[x†]-01	2.1	5/32"	7.95	97, 121, and 138	2.4
FTN[y*]25-N00-[x†]-01	2.5	3/16"	7.95	97, 121, and 138	3.0
FTN[y*]30-N00-[x†]-01	3.0	3/16"	7.95	97, 121, and 138	3.5
FTN[y*]35-N00-[x†]-01	3.5	3/16"	7.95	97, 121, and 138	4.0
FTN[y*]40-N00-[x†]-01	4.0	1/4"	7.95	97, 121, and 138	4.5
FTN[y*]50-N00-[x†]-01	5.0	1/4"	7.95	97, 121, and 138	5.7

† y = **1**: 121 mm length, **2**: 97 mm length, **3**: 138 mm length

* x = **C5960** - Non-Sterile 10-Pack, **C5961** - Irradiated 10-Pack, **C5965** - Single Non-Sterile Sample

Optima INOVA Style Needle – 8 mm Hub



Part Number	Nominal ID (mm)	Hose Barb Size (in)	Total Length A (mm)	Hub Diameter B (mm)	Functional Length C (mm)	Outer Diameter D (mm)
FTN111-N01-[x*]-01	1.1	1/8"	138	7.95	113	1.8
FTN115-N01-[x*]-01	1.5	1/8"	138	7.95	113	1.8
FTN121-N01-[x*]-01	2.1	5/32"	138	7.95	113	2.4
FTN125-N01-[x*]-01	2.5	3/16"	138	7.95	113	3.0
FTN130-N01-[x*]-01	3.0	3/16"	138	7.95	113	3.5
FTN135-N01-[x*]-01	3.5	3/16"	138	7.95	113	4.0
FTN140-N01-[x*]-01	4.0	1/4"	138	7.95	113	4.5
FTN150-N01-[x*]-01	5.0	1/4"	138	7.95	113	5.7

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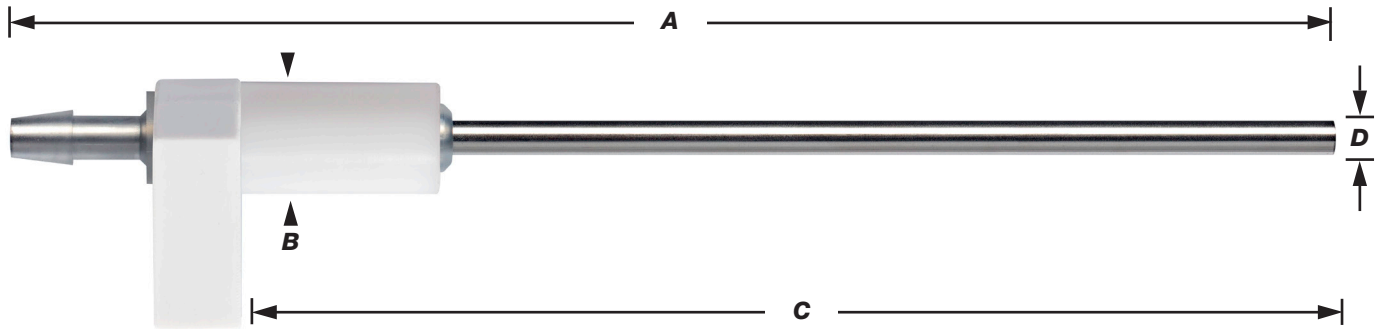
Optima INOVA Style Needle – 13 mm Hub



Part Number	Nominal ID (mm)	Hose Barb Size (in)	Total Length A (mm)	Hub Diameter B (mm)	Functional Length C (mm)	Outer Diameter D (mm)
FTN311-N11-[x*]-01	1.1	1/8"	154	13.0	128	1.8
FTN315-N11-[x*]-01	1.5	1/8"	154	13.0	128	1.8
FTN321-N11-[x*]-01	2.1	5/32"	154	13.0	128	2.4
FTN325-N11-[x*]-01	2.5	3/16"	154	13.0	128	3.0
FTN330-N11-[x*]-01	3.0	3/16"	154	13.0	128	3.5
FTN335-N11-[x*]-01	3.5	3/16"	154	13.0	128	4.0
FTN340-N11-[x*]-01	4.0	1/4"	154	13.0	128	4.5
FTN350-N11-[x*]-01	5.0	1/4"	154	13.0	128	5.7

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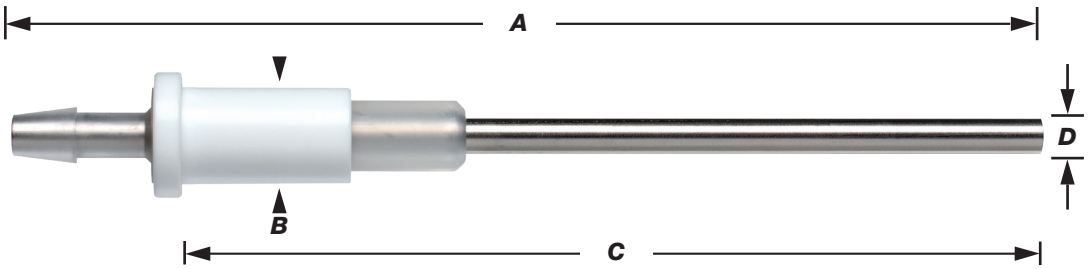
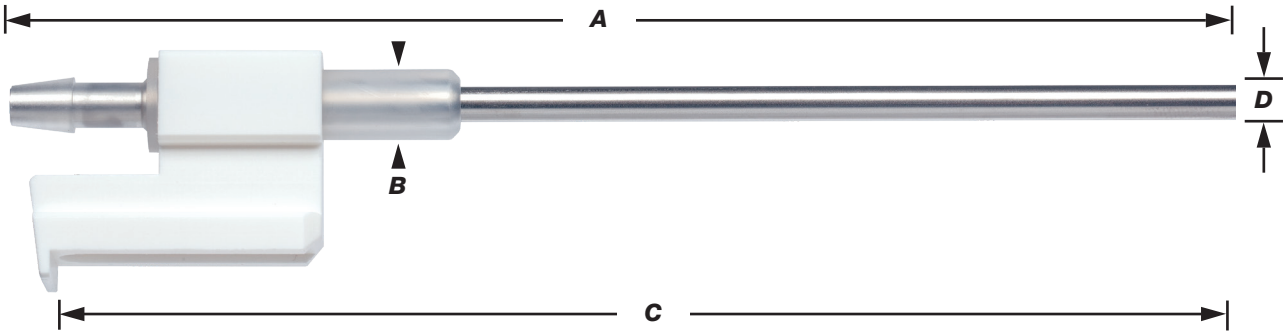
Bausch and Ströbel Style Needle – 11.9 mm Hub



Part Number	Nominal ID (mm)	Hose Barb Size (in)	Total Length A (mm)	Hub Diameter B (mm)	Functional Length C (mm)	Outer Diameter D (mm)
FTN211-N14-[x*]-01	1.1	1/8"	113	11.9	92	1.8
FTN215-N14-[x*]-01	1.5	1/8"	113	11.9	92	1.8
FTN221-N14-[x*]-01	2.1	5/32"	113	11.9	92	2.4
FTN225-N14-[x*]-01	2.5	3/16"	113	11.9	92	3.0
FTN230-N14-[x*]-01	3.0	3/16"	113	11.9	92	3.5
FTN235-N14-[x*]-01	3.5	3/16"	113	11.9	92	4.0
FTN240-N14-[x*]-01	4.0	1/4"	113	11.9	92	4.5
FTN250-N14-[x*]-01	5.0	1/4"	113	11.9	92	5.7

* x = **C5960** - Non-Sterile 10-Pack, **C5961** - Irradiated 10-Pack, **C5965** - Single Non-Sterile Sample

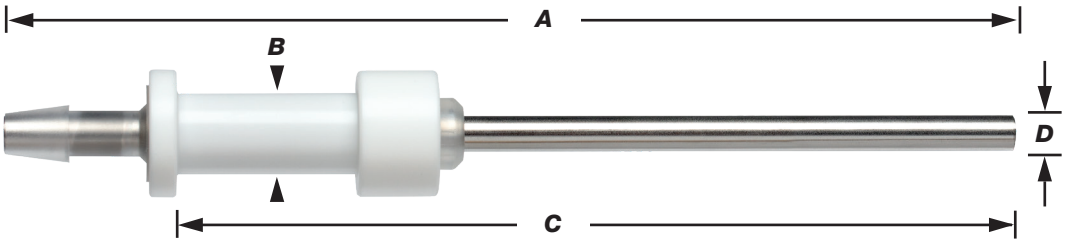
Groninger Style Needle



Part Number	Nominal ID (mm)	Hose Barb Size (in)	Total Length A (mm)	Hub Diameter B (mm)	Functional Length C (mm)	Outer Diameter D (mm)
FTN111-N06-[x*]-01	1.1	1/8"	138	7.95	134	1.8
FTN115-N06-[x*]-01	1.5	1/8"	138	7.95	134	1.8
FTN121-N06-[x*]-01	2.1	5/32"	138	7.95	134	2.4
FTN125-N06-[x*]-01	2.5	3/16"	138	7.95	134	3.0
FTN130-N06-[x*]-01	3.0	3/16"	138	7.95	134	3.5
FTN135-N06-[x*]-01	3.5	3/16"	138	7.95	134	4.0
FTN140-N06-[x*]-01	4.0	1/4"	138	7.95	134	4.5
FTN150-N06-[x*]-01	5.0	1/4"	138	7.95	134	5.7

* x = **C5960** - Non-Sterile 10-Pack, **C5961** - Irradiated 10-Pack, **C5965** - Single Non-Sterile Sample

IMA Style Needle



Part Number	Nominal ID (mm)	Hose Barb Size (in)	Total Length A (mm)	Hub Diameter B (mm)	Functional Length C (mm)	Outer Diameter D (mm)
FTN211-N08-[x*]-01	1.1	1/8"	113	9.0	96	1.8
FTN215-N08-[x*]-01	1.5	1/8"	113	9.0	96	1.8
FTN221-N08-[x*]-01	2.1	5/32"	113	9.0	96	2.4
FTN225-N08-[x*]-01	2.5	3/16"	113	9.0	96	3.0
FTN230-N08-[x*]-01	3.0	3/16"	113	9.0	96	3.5
FTN235-N08-[x*]-01	3.5	3/16"	113	9.0	96	4.0
FTN240-N08-[x*]-01	4.0	1/4"	113	9.0	96	4.5
FTN250-N08-[x*]-01	5.0	1/4"	113	9.0	96	5.7

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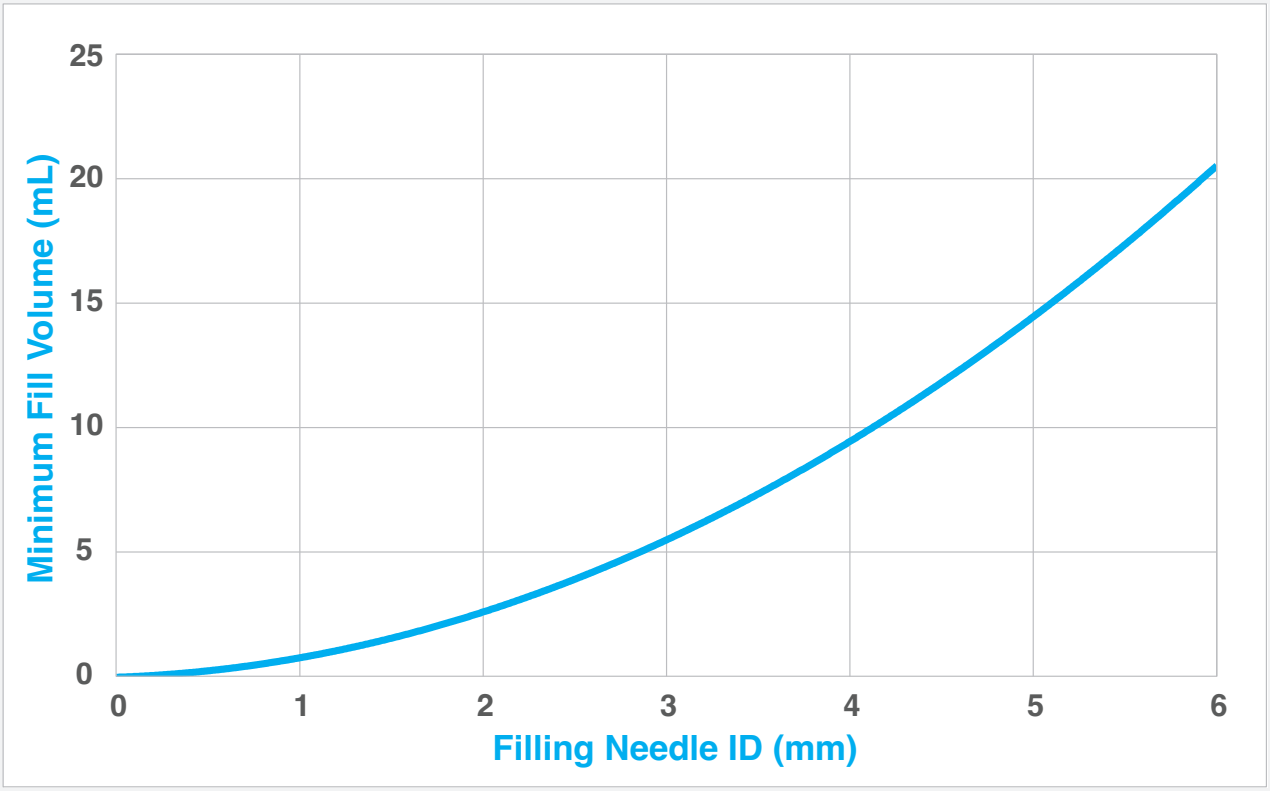
Recommended Minimum Fill Volumes



Features	Benefits
Modular	• All needles can be fitted with any adapter to fit any filling equipment • Adapters can be customized to fit your custom equipment
Repeatable Performance	• Each production lot undergoes stringent quality control checks to verify needle equivalence, ensuring consistent performance across all lots.
Needle Straightness	• Needles are inspected for straightness

Filling Machine Adapters

Polypropylene filling needle adapters that directly interface with various filling machines are available. Please contact Meissner for guidance in selecting the appropriate adapter for your application.

Machine Adapters

Optima
INOVA

10.9 mm Bausch and Ströbel

11.9 mm Bausch and Ströbel

Groninger

IMA

15.9 mm Concentric

Ancillary Adapters

13.0 mm Concentric Adapter

13.0 mm Extended Concentric Adapter

10.0 mm Concentric Adapter

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