

mdi Acufil™ single use filling needles for aseptic filling of liquids are designed for accurate volume filling of both mobile and viscous drug products without drip formation. These offer ready to use filling solutions as part of complete gamma sterilized single use filling lines.

mdi Acufil™ single use filling needles offer flexibility as these come in different sizes i.e 0.9 mm, 1.3 mm, 1.6 mm, 2 mm, 2.5 mm 3 mm, 4 mm, 5 mm and 5.4 mm with different connections and hub style.

Materials of Construction

Hub : Polypropylene

Needle : SS316

Special Features

- No drip formation
- Accurate volume filling
- Available in different internal diameters to facilitate different fill volumes
- Female luer connection and hose barb connections facilitates easy integration in filling line or systems

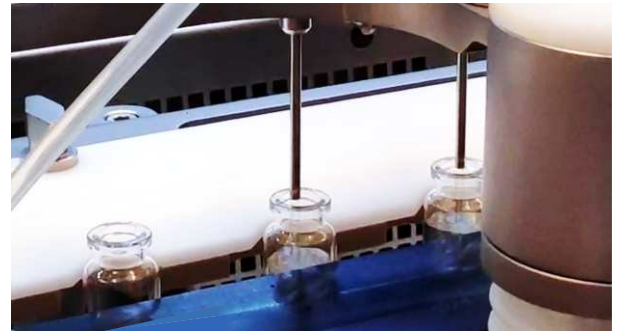
Applications

Small volume parenterals filling in pharmaceutical and biopharmaceutical manufacturing

Specifications

Bacterial Endotoxin

Aqueous extracts exhibit < 0.25 EU/ml as established by Limulus Amebocyte Lysate (LAL) Test as per USP <85>



Particle Release

Complies with USP <788> test for particulate matter in injections

Extractables

Comply with USP <661> Plastic Packaging Systems and Their Materials of Construction; Physicochemical Tests for Nonvolatile Residue

Bioburden Levels

Bioburden level is < 1000 cfu/device as per ISO 11737-1 :2018

Water Flow Rate

1.6mm Needle: >350ml/min @ 2.5psi

3.0mm Needle: >500ml/min @ 2.5psi

Sizes,Connections and Hub Style

| Needle ID | Connection | Length | Part No. | Hub Style |
|-----------|------------------|--------|--------------|------------------------------------------------|
| 0.9 mm | 3/32" HB | 90 mm | NLXA07IACXXX | 13mm HUB |
| | | 32 mm | NLXA12IAKXXX | 4.8mm HUB |
| 1.3 mm | 3/32" HB | 120 mm | NLXA11PAIXXX | 7.8mm HUB |
| 1.6 mm | 1/8" HB | 100 mm | NLXA01AAAXXX | 8mm HUB |
| | | 138 mm | NLXA06AHXXXX | 8mm HUB with T Holder |
| | | 140 mm | NLXA02AHAXXX | 8mm HUB |
| | 3/32" HB | 90 mm | NLXA07AACXXX | 13mm HUB |
| | | 100 mm | NLXA01AHAXXX | 8mm HUB |
| | | 127 mm | NLXA09AAJXXX | 11.5mm Jacketed hub with O-ring Gas Connection |
| | | 138 mm | NLXA06AAEXXX | 8mm HUB with T Holder |
| | | 140 mm | NLXA02AHAXXX | 8mm HUB |
| | Female Luer Lock | 121 mm | NLXA04AMBXXX | 10mm Luer Lock HUB |
| 2.0 mm | 1/8" HB | 138 mm | NLXA06NHEXXX | 8mm HUB with T Holder |
| | 1/8" HB | 178 mm | NLXA10NHXXXX | 10mm HUB with Steps |
| 2.5 mm | 3/16" HB | 148 mm | NLXA08SNEXXX | 8mm HUB with T Holder |
| 3.0 mm | 1/8" HB | 100 mm | NLXA01BHAXXX | 8mm HUB |
| | 1/8" HB | 140 mm | NLXA02BHAXXX | 8mm HUB |
| | 3/16" HB | 148 mm | NLXA08BNEXXX | 8mm HUB with T Holder |
| 4.0 mm | 3/16" HB | 127 mm | NLXA09ONGXXX | 11.5mm Jacketed Hub with 3/16" HB |
| | 3/16" HB | 148 mm | NLXA08ONEXXX | 8mm HUB with T Holder |
| 5.0 mm | 1/4" HB | 100 mm | NLXA01CBAXXX | 8mm HUB |
| | 3/16" HB | 90 mm | NLXA07CNCXXX | 13mm HUB |
| | 1/4" HB | 118 mm | NLXA13CBAXXX | 8mm HUB |
| | 1/4" HB | 165 mm | NLXA16CBNXXX | 4mm HUB |
| 5.4 mm | 1/4" HB | 148 mm | NLXA08MBEXXX | 8mm HUB with T Holder |