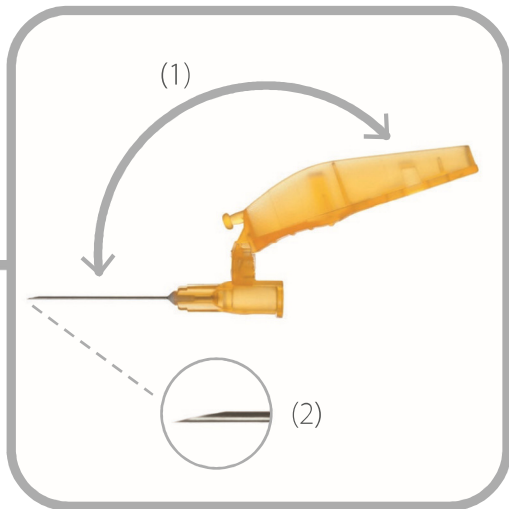




Needles

SOL-CARE™ Safety Needle



- Easy **one-hand technique** of activating protective arm.
- **Audible click** indicates safety mechanism activation.
- **Patented locking mechanism** ensures needle is secure and completely locked in protective arm.
- **Two options** for protective arm activation:



● **hard surface activation**



● **thumb activation**

- In compliance with criteria specified in the **Directive 2010/32/EU**.
- Protective arm **doesn't block sight of injection site** (1).
- **Bevel-up orientation** allows for low-angle injections (2).
- Hubs, protective arms and packaging are **color-coded** for easy and fast identification **of needles whose gauge size ranges from 18G to 30G** (ISO 6009).
- Available in 8 lengths **from 10 mm to 50 mm**.
- **Compatible with all standard** Luer Lock- and Slip Tip- **syringes**.



SOL-CARE™ Safety Needle



Needles

CE-marked

Reference number	Product description	Gauge size	Outer diameter (mm)	Length		Indications*				
				(mm)	(inch)	SC	ID	IM	IV	IA
SN3012	SOL-CARE™ Safety Needle 30G*1/2"	30G	0.3 mm	12.5 mm	1/2"	SC				
SN2715	SOL-CARE™ Safety Needle 27G*1 1/2"	27G	0.4 mm	40 mm	1 1/2"	SC	ID			
SN27125	SOL-CARE™ Safety Needle 27G*1 1/4"	27G	0.4 mm	32 mm	1 1/4"	SC	ID			
SN2734	SOL-CARE™ Safety Needle 27G*3/4"	27G	0.4 mm	18.5 mm	3/4"	SC	ID			
SN2758	SOL-CARE™ Safety Needle 27G*5/8"	27G	0.4 mm	16 mm	5/8"	SC	ID			
SN2712	SOL-CARE™ Safety Needle 27G*1/2"	27G	0.4 mm	12.5 mm	1/2"	SC	ID			
SN2612	SOL-CARE™ Safety Needle 26G*1/2"	26G	0.45 mm	12.5 mm	1/2"	SC	ID			
SN2515	SOL-CARE™ Safety Needle 25G*1 1/2"	25G	0.5 mm	40 mm	1 1/2"	SC	ID	IM		IA
SN2510	SOL-CARE™ Safety Needle 25G*1"	25G	0.5 mm	25 mm	1"	SC	ID	IM		IA
SN2558	SOL-CARE™ Safety Needle 25G*5/8"	25G	0.5 mm	16 mm	5/8"	SC	ID	IM		IA
SN2410	SOL-CARE™ Safety Needle 24G*1"	24G	0.55 mm	25 mm	1"	SC		IM		IA
SN2315	SOL-CARE™ Safety Needle 23G*1 1/2"	23G	0.6 mm	40 mm	1 1/2"			IM	IV	IA
SN23125	SOL-CARE™ Safety Needle 23G*1 1/4"	23G	0.6 mm	32 mm	1 1/4"			IM	IV	IA
SN2310	SOL-CARE™ Safety Needle 23G*1"	23G	0.6 mm	25 mm	1"			IM	IV	IA
SN2358	SOL-CARE™ Safety Needle 23G*5/8"	23G	0.6 mm	16 mm	5/8"			IM	IV	IA
SN2215	SOL-CARE™ Safety Needle 22G*1 1/2"	22G	0.7 mm	40 mm	1 1/2"			IM	IV	IA
SN22125	SOL-CARE™ Safety Needle 22G*1 1/4"	22G	0.7 mm	32 mm	1 1/4"			IM	IV	IA
SN2210	SOL-CARE™ Safety Needle 22G*1"	22G	0.7 mm	25 mm	1"			IM	IV	IA
SN2105	SOL-CARE™ Safety Needle 21G*2"	21G	0.8 mm	50 mm	2"			IM	IV	IA
SN2115	SOL-CARE™ Safety Needle 21G*1 1/2"	21G	0.8 mm	40 mm	1 1/2"			IM	IV	IA
SN21125	SOL-CARE™ Safety Needle 21G*1 1/4"	21G	0.8 mm	32 mm	1 1/4"			IM	IV	IA
SN2110	SOL-CARE™ Safety Needle 21G*1"	21G	0.8 mm	25 mm	1"			IM	IV	IA
SN2015	SOL-CARE™ Safety Needle 20G*1 1/2"	20G	0.9 mm	40 mm	1 1/2"			IM	IV	
SN2010	SOL-CARE™ Safety Needle 20G*1"	20G	0.9 mm	25 mm	1"			IM	IV	
SN1920	SOL-CARE™ Safety Needle 19G*2"	19G	1.1 mm	50 mm	2"			IM	IV	
SN1915	SOL-CARE™ Safety Needle 19G*1 1/2"	19G	1.1 mm	40 mm	1 1/2"			IM	IV	
SN1910	SOL-CARE™ Safety Needle 19G*1"	19G	1.1 mm	25 mm	1"			IM	IV	
SN1820	SOL-CARE™ Safety Needle 18G*2"	18G	1.2 mm	50 mm	2"				IV	
SN1815	SOL-CARE™ Safety Needle 18G*1 1/2"	18G	1.2 mm	40 mm	1 1/2"				IV	
SN1810	SOL-CARE™ Safety Needle 18G*1"	18G	1.2 mm	25 mm	1"				IV	

More sizes available on demand

SC - subcutaneous, ID - intradermal, IM - intramuscular, IV - intravenous, IA - intra-arterial.

* Recommended indications for specific measures. Users are explicitly responsible for correct application.

Note:

- Needle tube length tolerances based on ISO 7864 (dimensions in millimeters)

Nominal length of needle tube	< 25	25 to 39	40	> 40
Tolerance	+1 / -2	+1.5 / -2.5	0 / -4	+1.5 / -2.5

Sales Unit: 100 pcs/Box; 800 pcs/Case

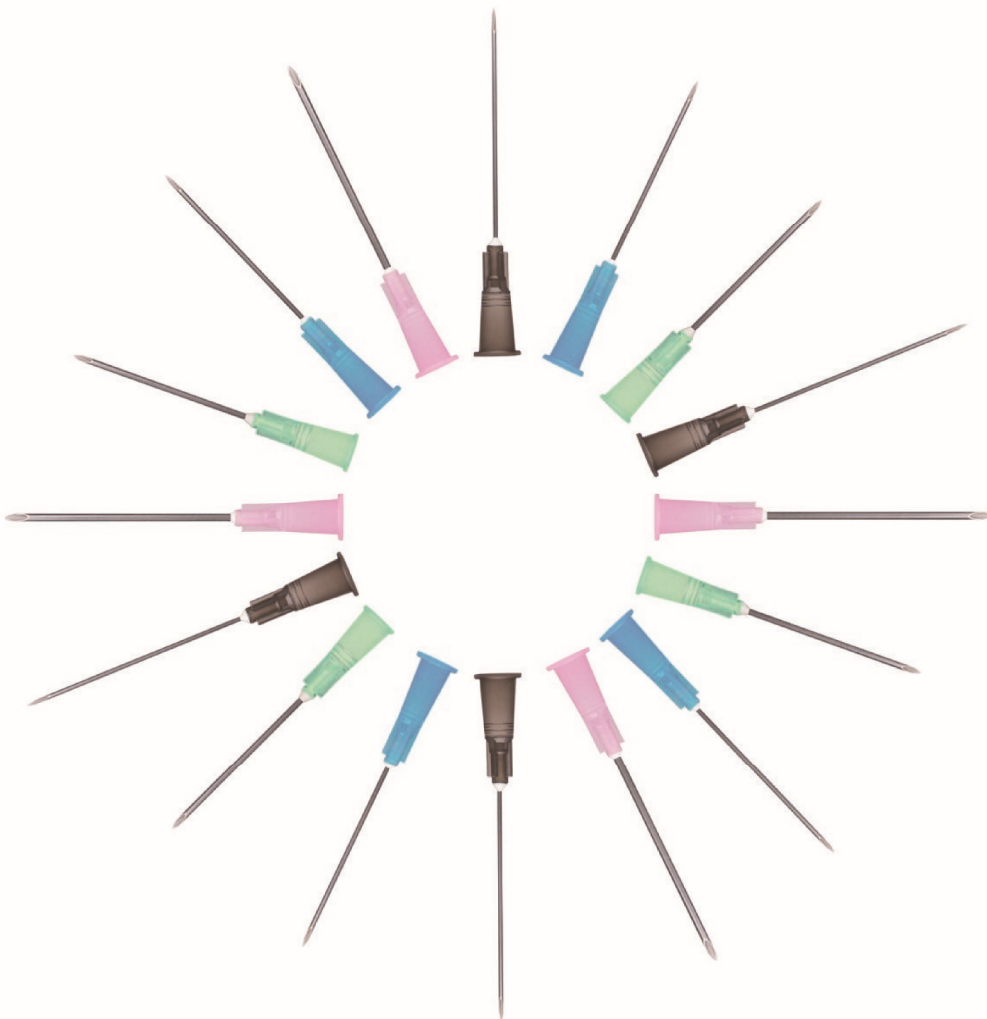


Needles

SOL-M™ Hypodermic Needle

SOL-Millennium offers a wide range of hypodermic needles with focus on patient comfort. SOL-M™ blister peel-apart packaging allows easy removal of needles.

- **Triple bevel cut and lubricated** – minimizes patient discomfort.
- **Color-coded hubs** – easy gauge identification.
- **Translucent polypropylene hubs** – easy flashback confirmation.
- **Luer Lock and Slip Tip compatible.**
- **DEHP- and PVC-free, not made with natural rubber latex.**



SOL-M™ Hypodermic Needle



Needles

CE-marked

Reference number	Product description	Gauge size	Outer diameter (mm)	Length		Indications*				
				(mm)	(inch)					
113010	SOL-M™ Hypodermic Needle 30G*1"	30G	0.3 mm	25 mm	1"	SC				
113005	SOL-M™ Hypodermic Needle 30G* 1/2"	30G	0.3 mm	12.5 mm	1/2"	SC				
112905	SOL-M™ Hypodermic Needle 29G*1/2"	29G	0.33 mm	12.5 mm	1/2"	SC	ID			
112734	SOL-M™ Hypodermic Needle 27G*3/4"	27G	0.4 mm	18.5 mm	3/4"	SC	ID			
112705	SOL-M™ Hypodermic Needle 27G*1/2"	27G	0.4 mm	12.5 mm	1/2"	SC	ID			
112658	SOL-M™ Hypodermic Needle 26G*5/8"	26G	0.45 mm	16 mm	5/8"	SC	ID			
112612	SOL-M™ Hypodermic Needle 26G*1/2"	26G	0.45 mm	12.5mm	1/2"	SC	ID			
112510	SOL-M™ Hypodermic Needle 25G*1"	25G	0.5 mm	25 mm	1"	SC	ID	IM		IA
112506	SOL-M™ Hypodermic Needle 25G*5/8"	25G	0.5 mm	16 mm	5/8"	SC	ID	IM		IA
112410	SOL-M™ Hypodermic Needle 24G*1"	24G	0.55 mm	25 mm	1"	SC		IM		IA
1123125	SOL-M™ Hypodermic Needle 23G*1 1/4"	23G	0.6 mm	32 mm	1 1/4"			IM	IV	IA
112310	SOL-M™ Hypodermic Needle 23G*1"	23G	0.6 mm	25 mm	1"			IM	IV	IA
112215	SOL-M™ Hypodermic Needle 22G*1 1/2"	22G	0.7 mm	40 mm	1 1/2"			IM	IV	IA
1122125	SOL-M™ Hypodermic Needle 22G*1 1/4"	22G	0.7 mm	32 mm	1 1/4"			IM	IV	IA
112210	SOL-M™ Hypodermic Needle 22G*1"	22G	0.7 mm	25 mm	1"			IM	IV	IA
112120	SOL-M™ Hypodermic Needle 21G*2"	21G	0.8 mm	50 mm	2"			IM	IV	IA
112115	SOL-M™ Hypodermic Needle 21G*1 1/2"	21G	0.8 mm	40mm	1 1/2"			IM	IV	IA
112110	SOL-M™ Hypodermic Needle 21G*1"	21G	0.8 mm	25 mm	1"			IM	IV	IA
112015	SOL-M™ Hypodermic Needle 20G*1 1/2"	20G	0.9 mm	40 mm	1 1/2"			IM	IV	
112010	SOL-M™ Hypodermic Needle 20G*1"	20G	0.9 mm	25 mm	1"			IM	IV	
111920	SOL-M™ Hypodermic Needle 19G*2"	19G	1.1 mm	50mm	2"			IM	IV	
111915	SOL-M™ Hypodermic Needle 19G*1 1/2"	19G	1.1 mm	40 mm	1 1/2"			IM	IV	
111910	SOL-M™ Hypodermic Needle 19G*1"	19G	1.1 mm	25 mm	1"			IM	IV	
111820	SOL-M™ Hypodermic Needle 18G*2"	18G	1.2 mm	50 mm	2"				IV	
111815	SOL-M™ Hypodermic Needle 18G*1 1/2"	18G	1.2 mm	40 mm	1 1/2"				IV	
111810	SOL-M™ Hypodermic Needle 18G*1"	18G	1.2 mm	25 mm	1"				IV	
111615	SOL-M™ Hypodermic Needle 16G*1 1/2"	16G	1.6 mm	40mm	1 1/2"					

More sizes available on demand

SC - subcutaneous, ID - intradermal, IM - intramuscular, IV - intravenous, IA - intra-arterial.

* Recommended indications for specific measures. Users are explicitly responsible for correct application.

Note:

- Needle tube length tolerances based on ISO 7864 (dimensions in millimeters)

Nominal length of needle tube	< 25	25 to 39	40	> 40
Tolerance	+1 / -2	+1.5 / -2.5	0 / -4	+1.5 / -2.5

Sales Unit: 100 pcs/Box; 1000 pcs/Case



Pen Needles

SOL-M™ Pen Needle

SOL-M™ Pen Needles are compatible with insulin pen devices available on the market according to ISO 11608-2, list available on demand.

SOL-M™ Pen Needles ensure precise insulin flow, gentle penetration, while also minimizing pain perception.



Key features:

- 5 different needle lengths from 4 mm to 12.5 mm.
- With a triple-bevel needle.
- Lubricated stainless steel needle.
- Thin-wall technology (32G-30G).

SOL-M™ Pen Needle



Pen Needles



CE-marked

		Needle length				
		5/32"	3/16"	15/64"	5/16"	1/2"
		Measures	Inches			
		Gauges	Millimeters			
Needle outer diameter	32G	0.23 mm	N42007			
	31G	0.25 mm	N42005	N42004	N42002	N42003
	30G	0.30 mm				N42001
	29G	0.33 mm				

Note:

Needle tube length tolerances based on ISO 11608/2

Sales Unit: 100 pcs/Box; 1200 pcs/Case



SOL-M™ Blunt Fill Needle

SOL-M™ Blunt Fill Needle with Filter



- To help reduce risk of needlestick injuries to healthcare workers when **drawing up** and **preparing medication** in compliance with Directive 2010/32/EU.
- **Prevention from sharp injuries** in hospitals and other health facilities.
- **Eliminating unnecessary use of sharps.**

● **Red** – Blunt Fill Needle



● **Purple** – Blunt Fill Needle with Filter



- **Easy Identification** - Color-coded hub.
Blunt Fill Needle (BFN) for use with vials.
Blunt Fill Needle with 5-micron filter (BFNF) for use with glass ampoules.
- **Ease of Use** - Both needles have a conventional needle hub compatible with all standard Luer Lock- and Slip Tip- syringes.
- **Reduced Medicine Contamination** - The 5-micron filter in the hub of the BFNF means any glass particles larger than 5 micron are filtered out, preventing them from being drawn into the syringe prior to injection.

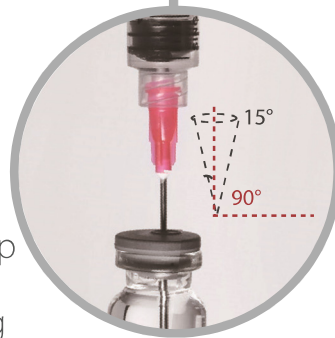
SOL-M™ Blunt Fill Needle

SOL-M™ Blunt Fill Needle with Filter



Usage Guidelines

- Remove the Blunt Fill Needle from its package and connect to the syringe.
- Remove the needle cap.
- BFN - Insert the needle into the center of the vial stopper at a 90° angle. This will help reduce the risk of rubber fragments from the side of the vial stopper contaminating the medication.
- BFNF - Draw up medication from a glass ampoule. Note: not for drawing up medications with molecules greater than 5 microns.
- Once medication has been prepared and is in the syringe, ready for administration, remove the BFN/BFNF and dispose it into a sharps container.



The Blunt Fill Needle is for **single use only**. Reuse will dull the needle, remove the silicone coating and increase the chance of coring and rubber fragmentation.



Product Specification

Reference number	Product description	Gauge size	Outer diameter (mm)	Length	
				(mm)	(inch)
110023	SOL-M™ Blunt Fill Needle 18G*2"	18G	1.2 mm	50 mm	2"
M110023F	SOL-M™ Blunt Fill Needle w/ Filter 18G*2"	18G	1.2 mm	50 mm	2"
110022	SOL-M™ Blunt Fill Needle 18G*1 1/2"	18G	1.2 mm	40 mm	1 1/2"
M110022F	SOL-M™ Blunt Fill Needle w/ Filter 18G*1 1/2"	18G	1.2 mm	40 mm	1 1/2"
110021	SOL-M™ Blunt Fill Needle 18G*1"	18G	1.2 mm	25mm	1"
M110021F	SOL-M™ Blunt Fill Needle w/ Filter 18G*1"	18G	1.2 mm	25 mm	1"

Note:

- Needle tube length tolerances based on ISO 7864 (dimensions in millimeters)

Nominal length of needle tube	25 to 39	40	> 40
Tolerance	+1.5 / -2.5	0 / -4	+1.5 / -2.5

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All products with Medical Paper

Sales Unit: 100 pcs/Box; 1000 pcs/Case