



EMEA PRODUCT CATALOG

# MEDICATION DELIVERY



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**SOL-MILLENNIUM** is a vertically integrated global medical supply company with locations across the globe. We are one of the world's largest manufacturers of needles and syringes and have a comprehensive line of medical supplies.

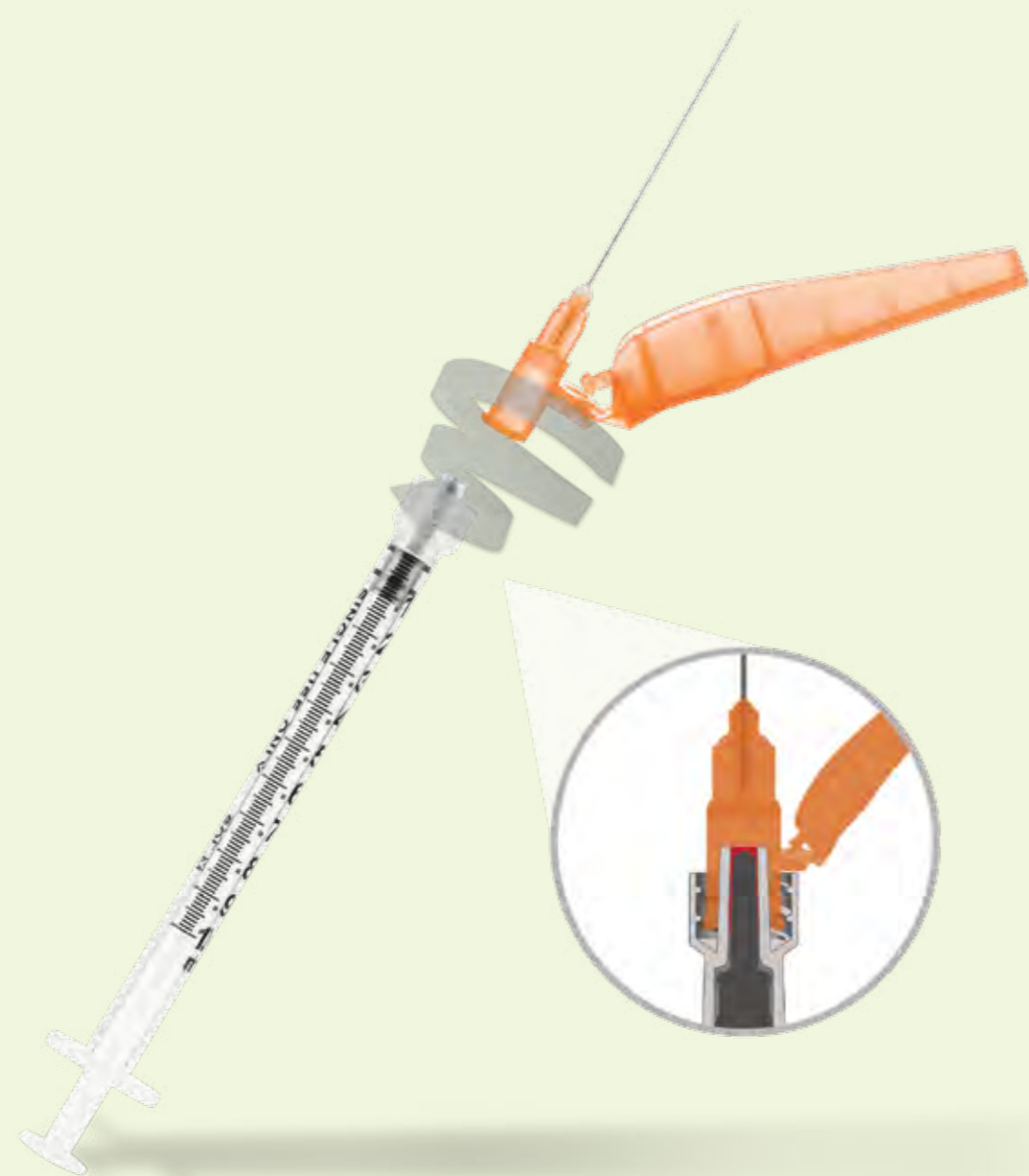
Our innovative technology reduces needlestick injuries, saves on medication expenses and enhances both clinician and patient experience. Our international sales team is dedicated to delivering knowledge and outstanding customer service. Our goal is to work together as partners in the healthcare industry, focusing on a healthier tomorrow.



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# LOW DEAD SPACE



## Sol-Millennium's® Low Dead Space Injection Devices for Vaccination

LDS syringes minimize “dead space”, which is the area within the syringe that retains medication even after it has been injected. Minimizing this “dead space” improves the efficiency of medication delivery by reducing the amount of medication wasted with every administration.



LDS Syringes **increase the number of doses** from each vial

Sol Millennium's® LDS syringes provide tremendous value by increasing the number of doses that can be drawn from a multi-dose vial.<sup>1</sup> This allows for greater distribution of a vaccine and was particularly significant during the COVID-19 vaccination campaign because it increased the number of doses that could be delivered from a limited number of vaccine vials.<sup>2</sup>

No changes to clinical practice are necessary to use and benefit from an LDS syringe. It is an easy and simple transition that immediately provides cost-savings and improves efficiency.

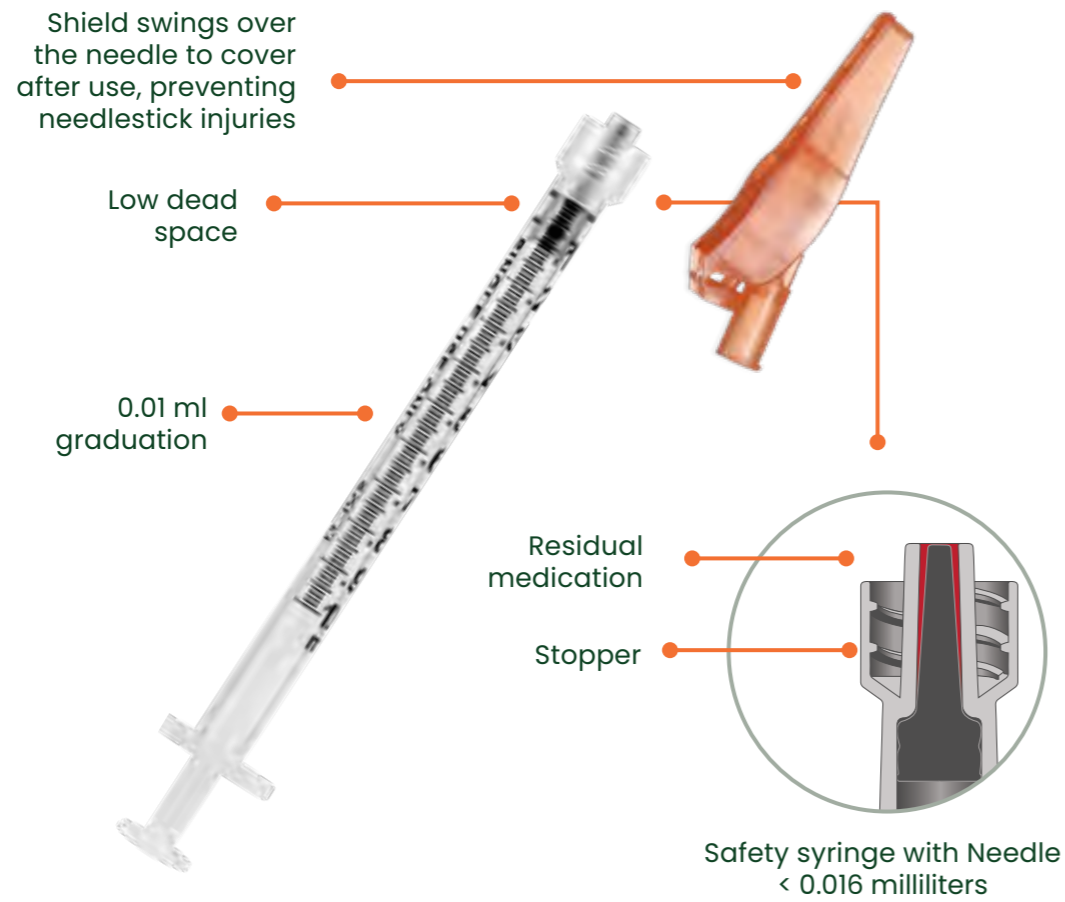
1. Strauss K, van Zundert A, Frid A, Costigliola V. Pandemic influenza preparedness: the critical role of the syringe. *Vaccine*. 2006. May 29;24(22):4874-82.2.  
2. EMA 2021. Extra dose from vials of Comirnaty COVID-19 vaccine. News 08/01/2021. Available online at [www.ema.europa.eu](http://www.ema.europa.eu). Accessed 22 January 2021.

# Sol-Care™



## ● Safety Needle with Syringe Combination

Sol-Millennium has engineered a unique low dead space solution with an exchangeable needle. Now you can exchange needles and utilize the Double Needle Technique and still benefit from Low Dead Space!



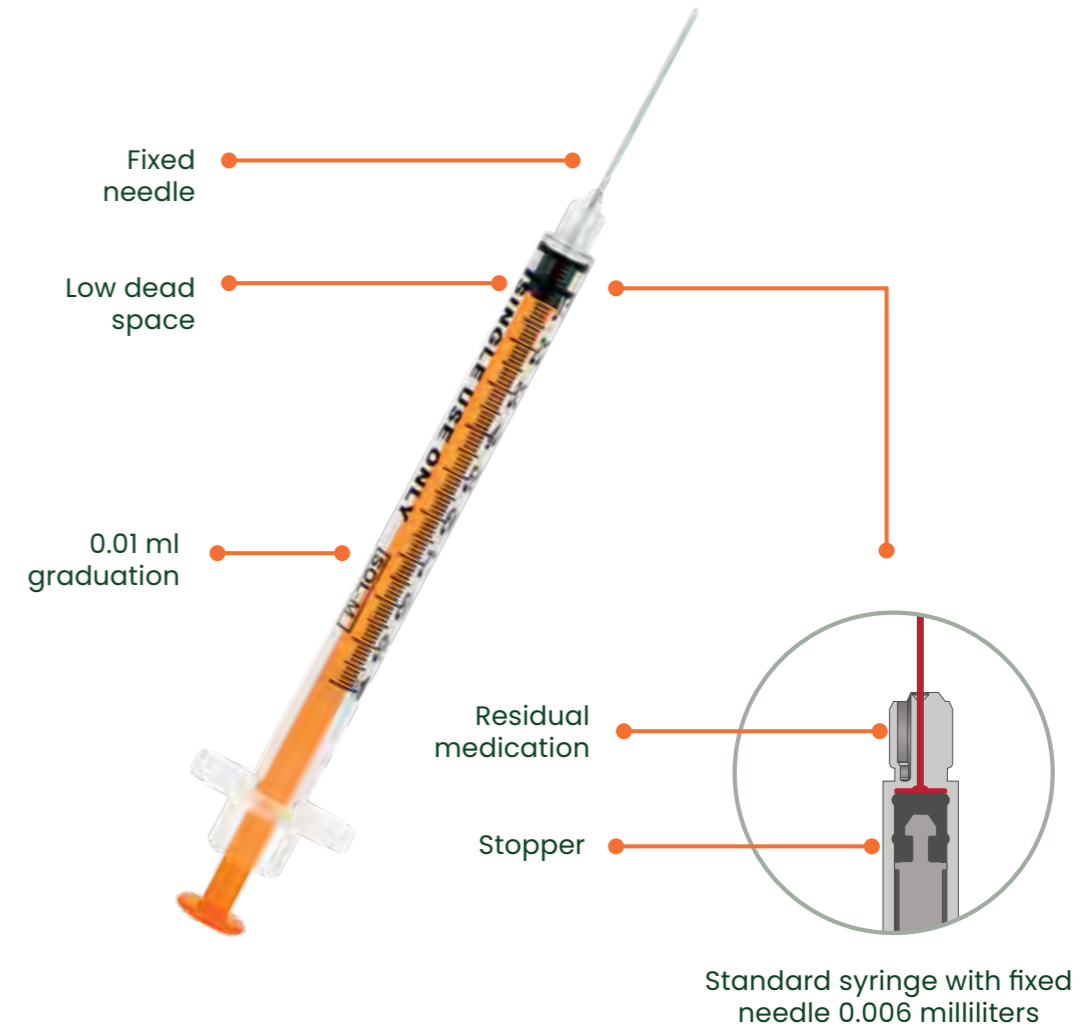
CE 2797

### Sol-Care™ Safety Needle with Syringe Combination

Ref. Number	Volume	Gauge	Needle Length	Average Dead Space	Box	Case
12515SN	1 ml	25 G	1 1/2"	< 0.016 ml	50	300
12510SN	1 ml	25 G	1"	< 0.016 ml	50	300
12558SN	1 ml	25 G	5/8"	< 0.016 ml	50	300
12310SN	1 ml	23 G	1"	< 0.016 ml	50	300
12315SN	1 ml	23 G	1 1/2"	< 0.016 ml	50	300

# Sol-M™

## ● Syringe with Fixed Needle



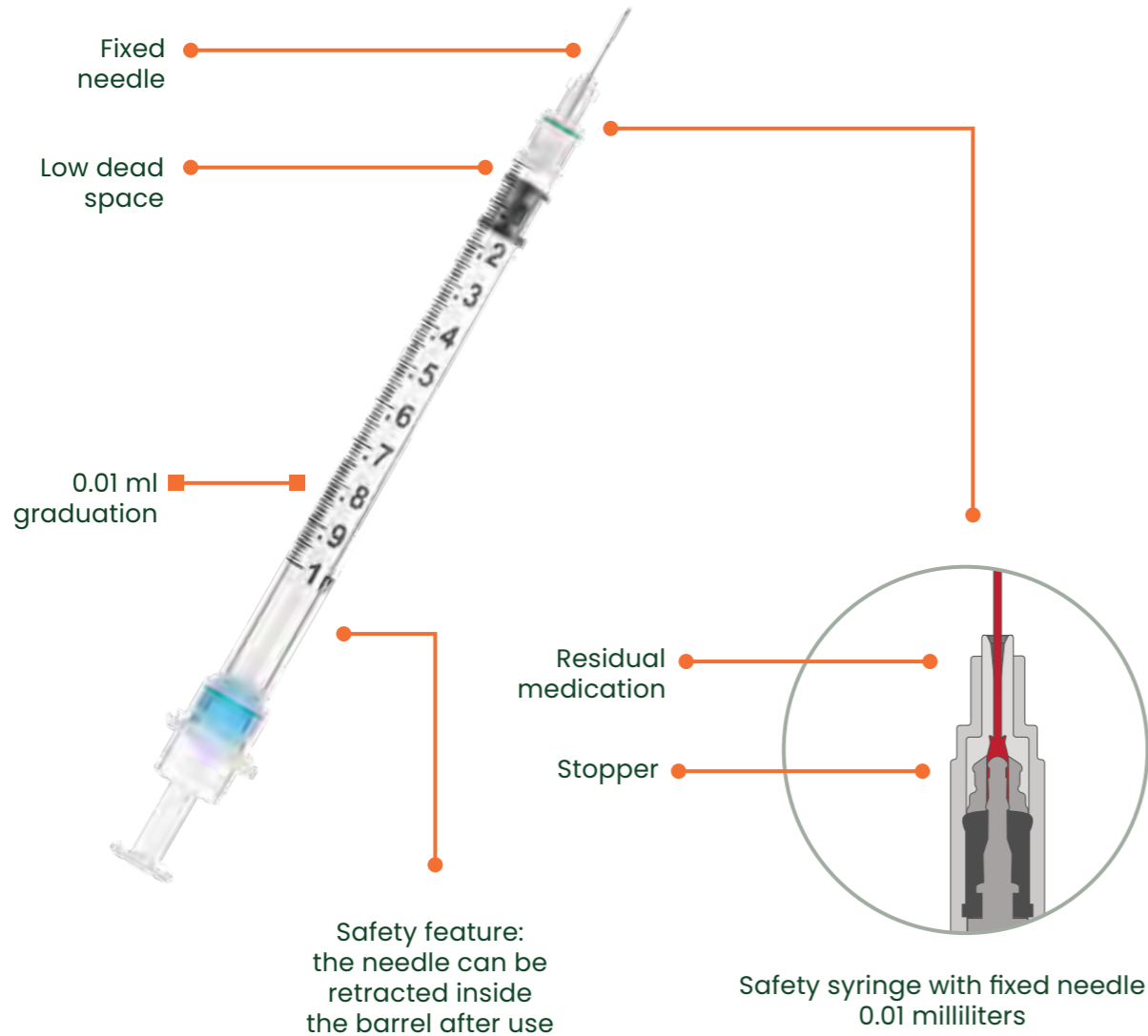
CE 2797

### Sol-M™ Syringe with Fixed Needle

Ref. Number	Volume	Gauge	Needle Length	Average Dead Space	Box	Case
181027	1 ml	27 G	1/2"	0.006 ml	100	800
181025	1 ml	25 G	5/8"	0.006 ml	100	800
182025	1 ml	25 G	1"	0.006 ml	100	800
181023	1 ml	23 G	1"	0.006 ml	100	800

# Sol-Care™

## Safety Syringe with Fixed Needle



CE 2797

### Sol-Care™ Safety Syringe with Fixed Needle

Ref. Number	Volume	Gauge	Needle Length	Average Dead Space	Box	Case
100018IM	1 ml	25 G	5/8"	0.01 ml	100	1000
100034IM	1 ml	25 G	1"	0.01 ml	100	1000

Sol-Millennium® provides low dead space solutions across multiple product types.

## Sol-Care™ Safety Needle with Syringe Combination

Safety needle with protective shield that swings over the needle to cover and prevent needlestick injuries

Attach to our SOL-M 3-Piece Syringe with low dead space

## Sol-Care™ Safety Syringes

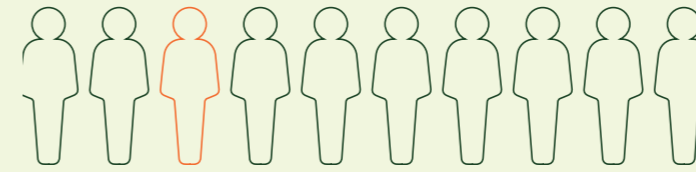
Safety syringe that helps to stop needlestick injuries

Retract the needle into the barrel of the syringe after medication delivery, preventing the needle from being exposed

## Sol-M™ Syringes with Fixed Needle

Standard needle and syringe combination

# DIABETES CARE



**1 in 10 adults have diabetes**

The population of adults with diabetes continues to increase every year. In 2021 537 million adults have diabetes.<sup>1</sup> **At Sol-Millennium®, we understand there is an ever-growing need for diabetes products that are not only designed for patients, but also clinicians.**

Our diabetes product line focuses on the wellbeing of healthcare workers by providing multiple safety products that help to prevent needlestick injuries in the workplace. At the same time, our over-the-counter consumer products are of the highest quality, ensuring easy and comfortable insulin administration.



### **Sol-M™ Standard Insulin Syringe**

A standard insulin syringe that provides accurate dosing and comfortable administration

### **Sol-Guard™ Safety Insulin Syringe**

A safety insulin syringe with shield that slides over the needle, lowering the risk of needlestick injury

### **Sol-Care™ Safety Insulin Syringe**

A safety insulin syringe where the needle retracts into the barrel of the syringe after administration, lowering the risk of needlestick injury

1. <https://www.idf.org/aboutdiabetes/what-is-diabetes/facts-figures.html>





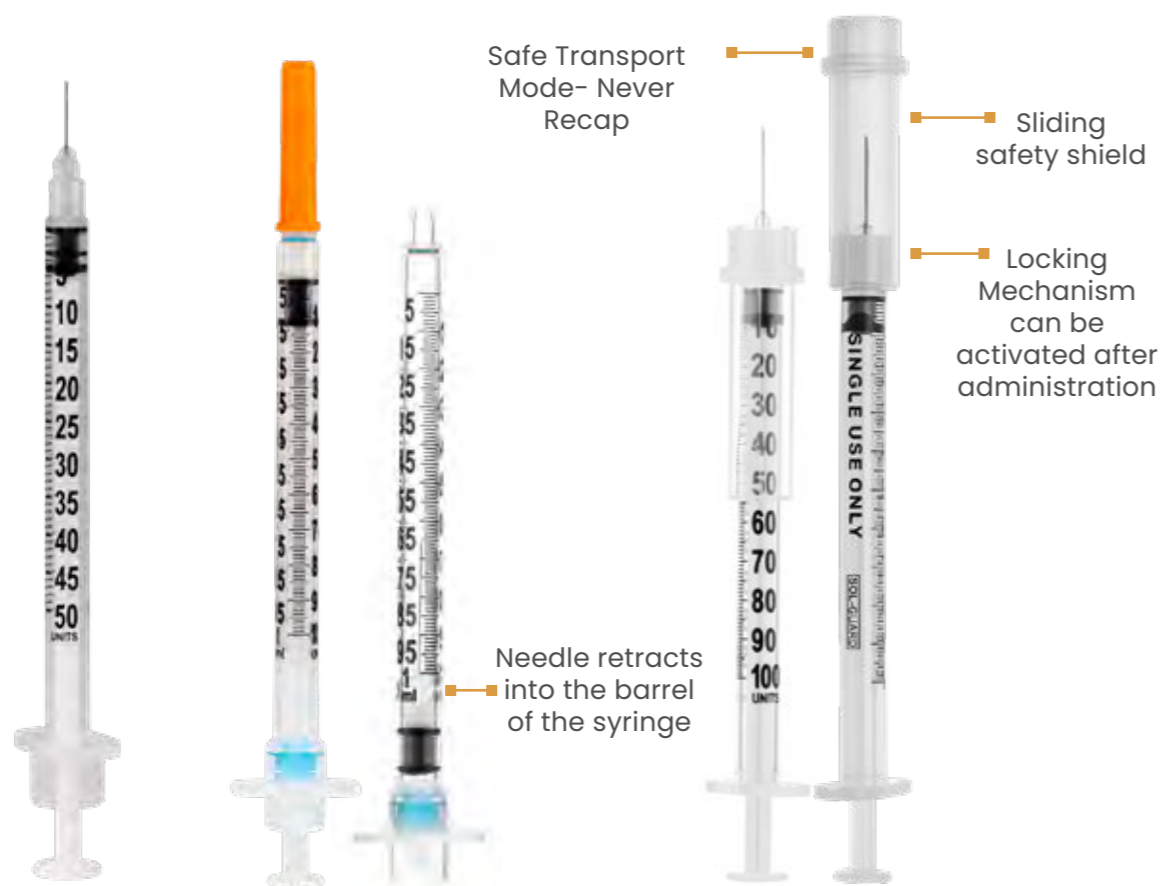
## Insulin Syringe

Sol-Millennium's® Insulin syringes provide accurate and comfortable insulin administration.

The Sol-Care™ and Sol-Guard™ safety insulin syringes have features which help to prevent needlestick injuries.

### Features:

- Needles engineered to ensure comfortable insulin administration
- Low dead space - improved accuracy and less medication waste when compared to conventional syringes
- Bold and clear graduated insulin unit markings for accurate dosing
- Sol-Care™ - Needle retracts into the syringe barrel as a safety feature to prevent needlestick injuries
- Sol-Guard™ - Safety shield feature that slides over the needle to prevent needlestick injuries before and after medication delivery. This syringe never requires recapping.



Sol-M™ Standard Insulin Syringe

Sol-Care™ Safety Insulin Syringe

Sol-Guard™ Safety Insulin Syringe



### Sol-M™ Standard Insulin Syringe

Ref. Number	Volume	Gauge	Needle Length (inches)	Needle Length (mm)	Box Qty	Case Qty
1633051B	0.3 ml	30G	5/16"	8 mm	100	1000
1632912B	0.3 ml	29 G	1/2"	12.5 mm	100	1000
1653151B	0.5 ml	31 G	5/16"	8 mm	100	1000
1652912B	0.5 ml	29 G	1/2"	12.5 mm	100	1000
1612912B	1 ml	29 G	1/2"	12.5 mm	100	1000
1613051B	1 ml	30 G	5/16"	8 mm	100	1000

SOL-M™ Standard Insulin Syringes are packed in inner bags of 10 pieces.

### Sol-Care™ Safety Insulin Syringe

Ref. Number	Volume	Gauge	Needle Length (inches)	Needle Length (mm)	Box Qty	Case Qty
100002IM	0.5 ml	29 G	1/2"	12.5 mm	100	1000
100089IM	0.5 ml	30 G	5/16"	8 mm	100	1000
100071IM	1 ml	28 G	1/2"	12.5 mm	100	1000
100017IM	1 ml	29 G	1/2"	12.5 mm	100	1000
100081IM	1 ml	30 G	1/2"	12.5 mm	100	1000
100020IM	1 ml	30 G	5/16"	8 mm	100	1000

### Sol-M™ Slip Tip Insulin Syringe without Needle

Ref. Number	Volume	Box Qty	Case Qty
161000	1 ml	100	800

### Sol-Guard™ Safety Insulin Syringe

Ref. Number	Volume	Gauge	Needle Length (inches)	Needle Length (mm)	Box Qty	Case Qty
200003SG	0.3 ml	29 G	1/2"	12.5 mm	100	800
2331516SG	0.3 ml	31 G	5/16"	8 mm	100	800
200002SG	0.5 ml	29 G	1/2"	12.5 mm	100	800
2531516SG	0.5 ml	31 G	5/16"	8 mm	100	800
200017SG	1 ml	29 G	1/2"	12.5 mm	100	800





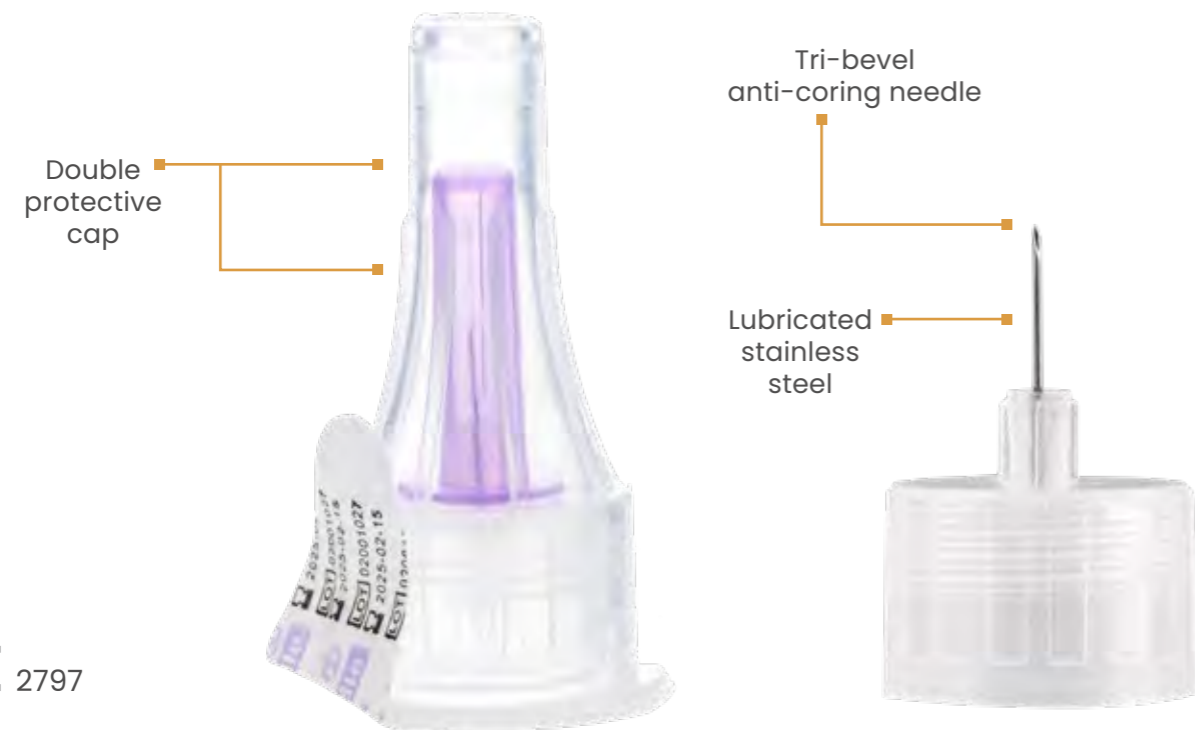
# Sol-M™

## Pen Needle

Sol-M™ Pen Needles provide accurate and reliable insulin delivery. They are engineered for comfortable medication delivery with silicone oil lubrication, sharp triple bevel, and thin wall technology.

### Features:

- Double protective cap
- Tri-bevel anti-coring needle to minimize discomfort
- Thin-wall needle for optimal medication flow (29G-33G)
- Compatible with most injector pens
- Sizes are color coded for easy identification



CE 2797



Sizes are color coded for easy identification.



### Sol-M™ Pen Needles

		Needle length						
		5/32"	3/16"	15/64"	5/16"	1/2"		
		Gauges	Millimeters	4 mm	5 mm	6 mm	8 mm	12.5 mm
Needle outer diameter	33G	0.2 mm	N42008					
	32G	0.23 mm	N42007	N42009				
	31G	0.25 mm	N42005	N42004	N42002	N42003		
	30G	0.3 mm				N42001		
	29G	0.33 mm						N42006





# NEEDLES



Safety needles create **a 4-fold reduction** in needlestick injuries



Needlestick injury is a major risk for healthcare professionals utilizing needles and sharps, which puts them at risk for blood-borne pathogens. **Safety needles and other safety injection devices have been shown to create a 4-fold reduction in these types of needlestick injuries.**<sup>1</sup>

Sol-Millennium's® safety and blunt fill needles help to minimize the risk of accidental needlestick injuries. We offer multiple types of needles to have a product for every situation.

1. Tosini, William, et al. "Needlestick Injury Rates According to Different Types of Safety-Engineered Devices: Results of a French Multicenter Study." *Infection Control and Hospital Epidemiology*, vol. 31, no. 4, Apr. 2010, doi:10.1086/651301

# Sol-Care™

## Safety Needle

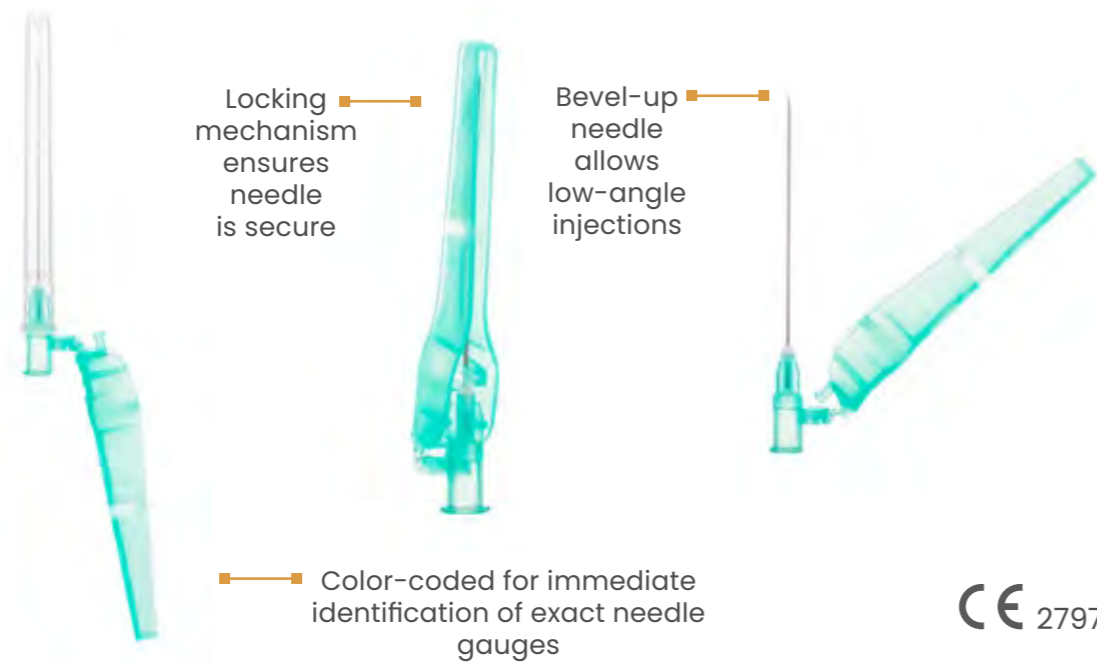


Sol-Care™ Safety Needles are designed to help prevent needlestick injuries. Every needle is equipped with a pivoting safety shield mechanism that locks in place to lower the risk of accidental injury after medication administration.

There two methods of safety shield activation that keep hands and fingers behind and away from the needle tip for protection from a contaminated needlestick.

### Features:

- Two options for protective arm activation: hard surface activation and thumb activation
- Simple one-handed safety shield mechanism
- Audible click indicates safety mechanism is secure and locked in place
- Hubs, protective shields, and packaging are color-coded for immediate identification of needles gauges (ISO 6009)
- Protective arm does not obstruct visualization of injection site
- Bevel-up needle allows for low-angle injections
- Compatible with all standard Luer Lock and Luer Slip Tip syringes



### Two options for protective arm activation:



Hard Surface Activation

Thumb Activation

## Sol-Care™ Safety Needle

Ref. Number	Product Description	Gauge	Length (inches)	Length (mm)	Box Qty	Case Qty
SN1810	Sol-Care Safety Needle 18G x 1"	18G	1"	25 mm	100	800
SN1815	Sol-Care Safety Needle 18G x 1 1/2"	18G	1 1/2"	40 mm	100	800
SN1820	Sol-Care Safety Needle 18G x 2"	18G	2"	50 mm	100	800
SN1910	Sol-Care Safety Needle 19G x 1"	19 G	1"	25 mm	100	800
SN1915	Sol-Care Safety Needle 19G x 1 1/2"	19 G	1 1/2"	40 mm	100	800
SN1920	Sol-Care Safety Needle 19G x 2"	19 G	2"	50 mm	100	800
SN2010	Sol-Care Safety Needle 20G x 1"	20G	1"	25 mm	100	800
SN2015	Sol-Care Safety Needle 20G x 1 1/2"	20G	1 1/2"	40 mm	100	800
SN2110	Sol-Care Safety Needle 21G x 1"	21G	1"	25 mm	100	800
SN2115	Sol-Care Safety Needle 21G x 1 1/2"	21G	1 1/2"	40 mm	100	800
SN2105	Sol-Care Safety Needle 21G x 2"	21G	2"	50 mm	100	800
SN2210	Sol-Care Safety Needle 22G x 1"	22G	1"	25 mm	100	800
SN22125	Sol-Care Safety Needle 22G x 1 1/4"	22G	1 1/4"	32 mm	100	800
SN2215	Sol-Care Safety Needle 22G x 1 1/2"	22G	1 1/2"	40 mm	100	800
SN2205	Sol-Care Safety Needle 22G x 2"	22G	2"	50 mm	100	800
SN2310	Sol-Care Safety Needle 23G x 1"	23G	1"	25 mm	100	800
SN23125	Sol-Care Safety Needle 23G x 1 1/4"	23G	1 1/4"	32 mm	100	800
SN2315	Sol-Care Safety Needle 23G x 1 1/2"	23G	1 1/2"	40 mm	100	800
SN2410	Sol-Care Safety Needle 24G x 1"	24G	1"	25 mm	100	800
SN2558	Sol-Care Safety Needle 25G x 5/8"	25G	5/8"	16 mm	100	800
SN2510	Sol-Care Safety Needle 25G x 1"	25G	1"	25 mm	100	800
SN2515	Sol-Care Safety Needle 25G x 1 1/2"	25G	1 1/2"	40 mm	100	800
SN2612	Sol-Care Safety Needle 26G x 1/2"	26G	1/2"	12.5 mm	100	800
SN2712	Sol-Care Safety Needle 27G x 1/2"	27G	1/2"	12.5 mm	100	800
SN2758	Sol-Care Safety Needle 27G x 5/8"	27G	5/8"	16 mm	100	800
SN2734	Sol-Care Safety Needle 27G x 3/4"	27G	3/4"	18.5 mm	100	800
SN27125	Sol-Care Safety Needle 27G x 1 1/4"	27G	1 1/4"	32 mm	100	800
SN2715	Sol-Care Safety Needle 27G x 1 1/2"	27G	1 1/2"	40 mm	100	800
SN3012	Sol-Care Safety Needle 30G x 1/2"	30G	1/2"	12.5 mm	100	800

Please contact your local SOL-MILLENNIUM® representative for additional sizes of the SOL-CARE™ Safety Needle.

**Sol-M™****Blunt Fill Needle**

Blunt Fill Needles reduce the risk of needlestick injuries to healthcare workers when drawing up and preparing medication by removing the need for sharps.

For use with 'Double Needle Technique' when drawing medication and can also be used for IV push administration in needleless IV systems.

**Features:**

- Eliminates the unnecessary use of sharps
- Color-coded hubs for easy identification
- Needle hub is compatible with all Luer Lock and Luer Slip Tip syringes
- Available with 5-micron filter to prevent the drawing of glass particles when using ampules (REF: 110022F)



CE 2797

**Sol-M™ Blunt Fill Needles**

Ref. Number	Product Description	Gauge	Length (inches)	Length (mm)	Box Qty	Case Qty
110021	Sol-M Blunt Fill Needle 18G x 1"	18G	1"	25 mm	100	1000
110022	Sol-M Blunt Fill Needle 18G x 1 1/2"	18G	1 1/2"	40 mm	100	1000
110023	Sol-M Blunt Fill Needle 18G x 2"	18G	2"	50 mm	100	1000
110022F	Sol-M Blunt Fill Needle w/Filter 18G x 1 1/2"	18G	1 1/2"	40 mm	100	1000
110023F	Sol-M Blunt Fill Needle w/Filter 18G x 2"	18 G	2"	50 mm	100	1000

Please contact your local Sol-Millennium® representative for additional sizes of the Sol-M™ Blunt Fill Needle.



5-micron filter needle for use with glass ampules. Prevents glass particles from entering the syringe.

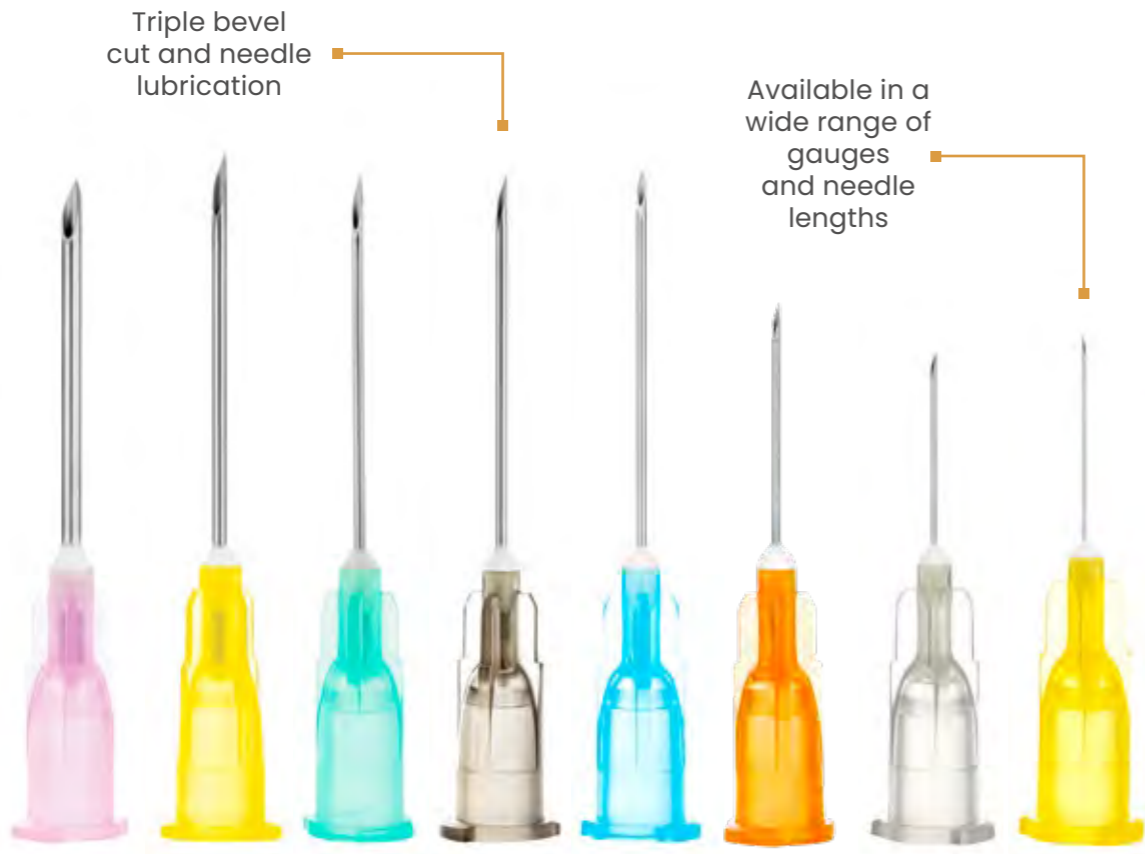
# Sol-M™

## ● Hypodermic Needle

SOL-Millennium® offers a wide range of hypodermic needles with an emphasis on ease of use and patient comfort.

**Features:**

- Triple-bevel lubricated stainless steel bevel that minimizes patient discomfort
- Color-coded hubs for easy gauge identification
- Translucent hubs for flashback confirmation
- Compatible with all standard Luer Lock and Luer Slip Tip syringes



Color-coded and translucent hubs



### Sol-M™ Hypodermic Needle

Ref. Number	Product Description	Gauge	Length (inches)	Length (mm)	Box Qty	Case Qty
111615	Sol-M Hypodermic Needle 16G x 1 1/2"	16G	1 1/2"	40 mm	100	1000
111810	Sol-M Hypodermic Needle 18G x 1"	18G	1"	25 mm	100	1000
111815	Sol-M Hypodermic Needle 18G x 1 1/2"	18G	1 1/2"	40 mm	100	1000
111820	Sol-M Hypodermic Needle 18G x 2"	18G	2"	50mm	100	1000
111910	Sol-M Hypodermic Needle 19G x 1"	19 G	1"	25 mm	100	1000
111915	Sol-M Hypodermic Needle 19G x 1 1/2"	19 G	1 1/2"	40 mm	100	1000
111920	Sol-M Hypodermic Needle 19G x 2"	19 G	2"	50 mm	100	1000
112010	Sol-M Hypodermic Needle 20G x 1"	20G	1"	25 mm	100	1000
112015	Sol-M Hypodermic Needle 20G x 1 1/2"	20G	1 1/2"	40 mm	100	1000
112110	Sol-M Hypodermic Needle 21G x 1"	21G	1"	25 mm	100	1000
112115	Sol-M Hypodermic Needle 21G x 1 1/2"	21G	1 1/2"	40 mm	100	1000
112120	Sol-M Hypodermic Needle 21G x 2"	21G	2"	50 mm	100	1000
112210	Sol-M Hypodermic Needle 22G x 1"	22G	1"	25 mm	100	1000
1122125	Sol-M Hypodermic Needle 22G x 1 1/4"	22G	1 1/4"	32 mm	100	1000
112215	Sol-M Hypodermic Needle 22G x 1 1/2"	22G	1 1/2"	40 mm	100	1000
112310	Sol-M Hypodermic Needle 23G x 1"	23G	1"	25 mm	100	1000
1123125	Sol-M Hypodermic Needle 23G x 1 1/4"	23G	1 1/4"	32 mm	100	1000
112410	Sol-M Hypodermic Needle 24G x 1"	24G	1"	25 mm	100	1000
112506	Sol-M Hypodermic Needle 25G x 5/8"	25G	5/8"	16 mm	100	1000
112510	Sol-M Hypodermic Needle 25G x 1"	25G	1"	25 mm	100	1000
112612	Sol-M Hypodermic Needle 26G x 1/2"	26G	1/2"	12.5 mm	100	1000
112658	Sol-M Hypodermic Needle 26G x 5/8"	26G	5/8"	16 mm	100	1000
112705	Sol-M Hypodermic Needle 27G x 1/2"	27G	1/2"	12.5 mm	100	1000
112734	Sol-M Hypodermic Needle 27G x 3/4"	27G	3/4"	18.5 mm	100	1000
112905	Sol-M Hypodermic Needle 29G x 1/2"	29G	1/2"	12.5 mm	100	1000
113005	Sol-M Hypodermic Needle 30G x 1/2"	30G	1/2"	12.5 mm	100	1000

Please contact your local SOL-MILLENNIUM® representative for additional sizes of the Sol-M™ Hypodermic Needle.

# SYRINGES

Syringes are a critical part of medication delivery. Sol-Millennium® manufactures a variety of syringes with several innovative features:



### Low Dead Space (LDS)

Increases efficiency of medication utilization to minimize residual medication left in the syringe after delivery



### Retracting Needle Safety Mechanism

Our Sol-Care safety syringes allow the needle to retract into the barrel of the syringe after medication delivery to help prevent needlestick injuries

Sol-Millennium's® safety syringes utilize effective and easy-to-use designs that help to protect healthcare workers without any complicated or expensive mechanisms. We know that simple designs are the most effective. Familiar and intuitive procedures improve clinicians' comfort and safety.

# Sol-Care™

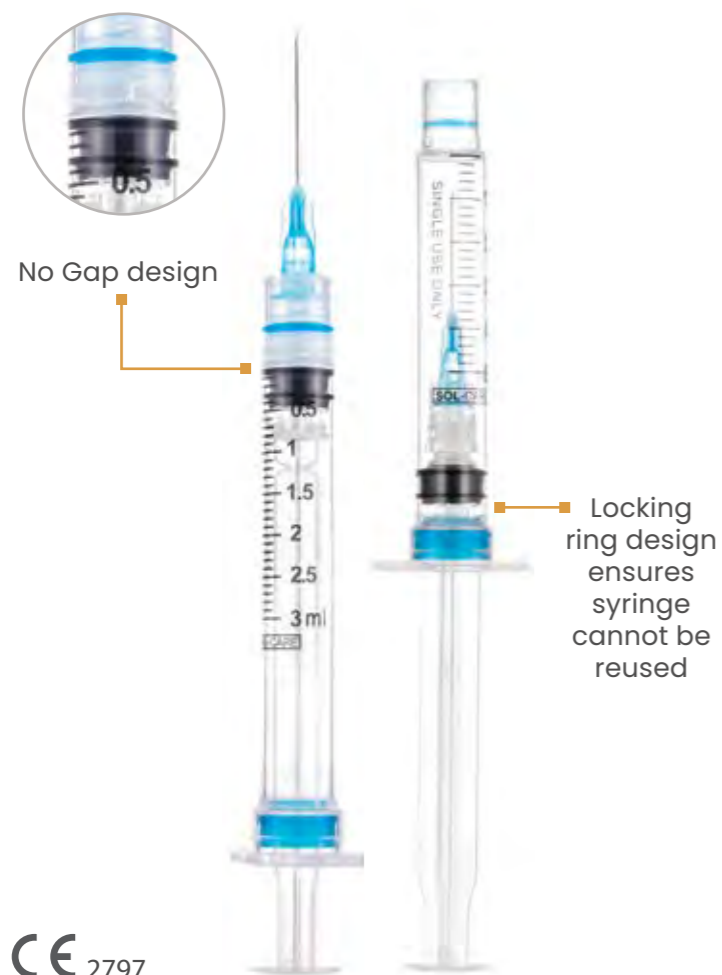
## ● Safety Syringe with Exchangeable Needle

Sol-Care™ Safety Syringes have a manual retractable needle mechanism. The syringe aids in the prevention of needlestick injuries by allowing the user to retract the needle into the barrel after medication delivery, covering the needle and locking it in place.



### Features:

- Compatible with all standard needles
- Clear, bold graduations for accurate dosing
- No Gap design allows the plunger to be pushed to the zero mark without activating the safety mechanism
- Safety mechanism does not obstruct the view of the needle tip
- Visual and audible confirmation of safety mechanism activation
- Patented locking ring design – the syringe cannot be reused once the needle is locked within the barrel



CE 2797

### Retracting the Sol-Care Safety Syringe:



Push



Pull



Snap

### Sol-Care™ Luer Lock Safety Syringe without Needle

Ref. Number	Product Description	Volume	Box Qty	Case Qty
120006IM	Sol-Care 3ml Luer Lock Safety Syringe w/o Needle	3 ml	100	800
120007IM	Sol-Care 5ml Luer Lock Safety Syringe w/o Needle	5 ml	100	800
120008IM	Sol-Care 10ml Luer Lock Safety Syringe w/o Needle	10 ml	100	800
120009IM	Sol-Care 20ml Luer Lock Safety Syringe w/o Needle	20 ml	50	600

### Sol-Care™ Luer Lock Safety Syringe with Exchangeable Needle

Ref. Number	Product Description	Volume	Gauge	Needle Length (inches)	Needle Length (mm)	Box Qty	Case Qty
100076IM	Sol-Care 3ml Luer Lock Safety Syringe w/ Exch Needle 22G x 1 1/2	3 ml	22 G	1 1/2"	40 mm	100	800
100077IM	Sol-Care 3ml Luer Lock Safety Syringe w/ Exch Needle 23G x 1	3 ml	23 G	1"	25 mm	100	800
140076IM	Sol-Care 5ml Luer Lock Safety Syringe w/ Exch Needle 22G x 1 1/2	5 ml	22 G	1 1/2"	40 mm	100	1200
140072IM	Sol-Care 5ml Luer Lock Safety Syringe w/ Exch Needle 21G x 1 1/2	5 ml	21 G	1 1/2"	40 mm	100	1200
140077IM	Sol-Care 5ml Luer Lock Safety Syringe w/ Exch Needle 23G x 1	5 ml	23 G	1"	25 mm	100	1200
160072IM	Sol-Care 10ml Luer Lock Safety Syringe w/ Exch Needle 21G x 1 1/2	10 ml	21 G	1 1/2"	40 mm	100	1200
160076IM	Sol-Care 10ml Luer Lock Safety Syringe w/ Exch Needle 22G x 1 1/2	10 ml	22 G	1 1/2"	40 mm	100	1200
190072IM	Sol-Care 20ml Luer Lock Safety Syringew/ Exch Needle 21G x 1 1/2	20ml	21G	1 1/2"	40 mm	50	600



# Sol-Care™



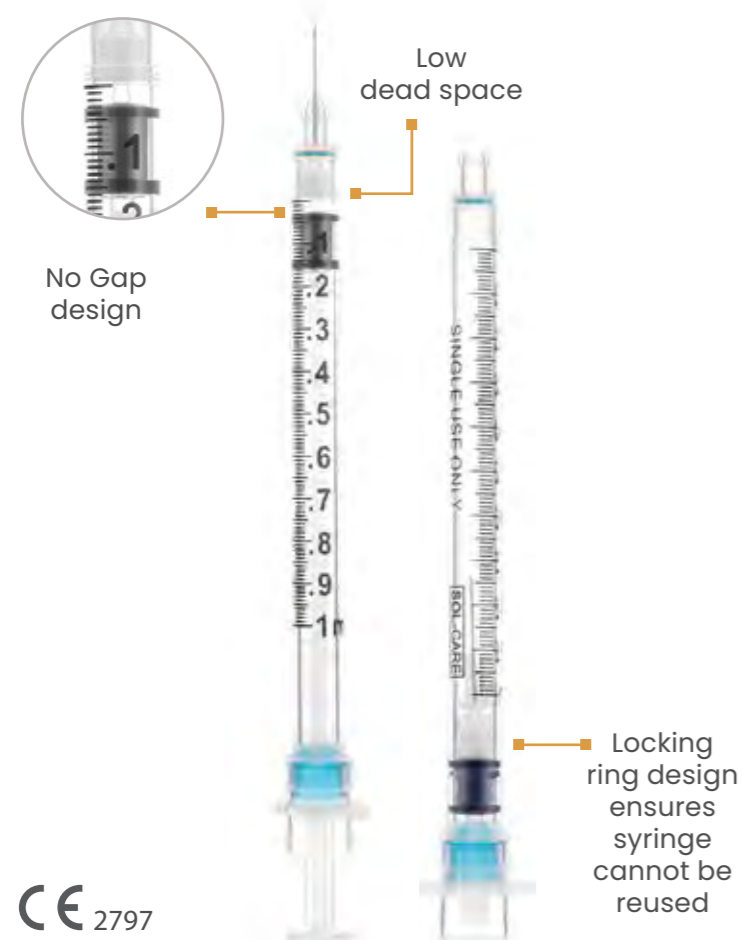
## Safety Syringe with Fixed Needle

Sol-Care™ Safety Syringes are equipped with a fixed needle and aid in the prevention of needlestick injuries with a manual retractable needle mechanism.

The safety mechanism is activated when the user pulls the needle into the barrel of the syringe after medication delivery. This action covers the needle and locks it in place, preventing reuse and lowering the risk of needlestick injuries.

### Features:

- Low Dead Space design reduces waste and allows for more efficient medication delivery
- Convenient injection solution for key therapeutic areas, such as allergy and immunization
- Clear, bold graduations for accurate dosing
- No Gap design allows the plunger to be pushed to the zero mark without activating the safety mechanism
- Safety mechanism does not obstruct the view of the needle tip
- Visual and audible confirmation of safety mechanism activation
- Patented locking ring design – the syringe cannot be reused once the needle is locked within the barrel



### Retracting the Sol-Care Safety Syringe:



Push



Pull



Snap

## Sol-Care™ Safety Syringe with Fixed Needle

Ref. Number	Product Description	Volume	Gauge	Needle Length (inches)	Needle Length (mm)	Box Qty	Case Qty
100018IM	Sol-Care 1ml Safety Syringe w/ Fixed Needle 25G x 5/8	1 ml	25 G	5/8"	16 mm	100	1000
100034IM	Sol-Care 1ml Safety Syringe w/ Fixed Needle 25G x 1	1 ml	25 G	1"	25 mm	100	1000
100070IM	Sol-Care 1ml Safety Syringe w/ Fixed Needle 26G x 3/8 IDB	1 ml	26 G	3/8"	10 mm	100	1000
100019IM	Sol-Care 1ml Safety Syringe w/ Fixed Needle 27G x 1/2	1 ml	27 G	1/2"	12.5 mm	100	1000
100067IM	Sol-Care 1ml Safety Syringe w/ Fixed Needle 28G x 1/2	1 ml	28 G	1/2"	12.5 mm	100	1000
100082IM	Sol-Care 1ml Safety Syringe w/ Fixed Needle 30G x 1/2	1 ml	30 G	1/2"	12.5 mm	100	1000

## Sol-Care™ Safety Insulin Syringe

Ref. Number	Volume	Gauge	Needle Length (inches)	Needle Length (mm)	Box Qty	Case Qty
100002IM	0.5 ml	29 G	1/2"	12.5 mm	100	1000
100089IM	0.5 ml	30 G	5/16"	8 mm	100	1000
100071IM	1 ml	28 G	1/2"	12.5 mm	100	1000
100017IM	1 ml	29 G	1/2"	12.5 mm	100	1000
100081IM	1 ml	30 G	1/2"	12.5 mm	100	1000



# Sol-Care™

## Safety Needle with Syringe



Our Sol-Care™ Safety Needles are compatible with all standard Luer Lock and Luer Slip Tip syringes. They are an ideal pairing with our standard 3-piece syringe. These safety needle and syringes come in a wide variety of combinations for every situation.

These safety needle and syringe combinations are placed side-by-side within the blister pack for clinician convenience in drawing up and administering medications.

### Features:

- One-handed activation of the safety shield that can be done with your thumb or on a hard surface
- Color-coded safety shield and hub for easy identification of needle size
- Bevel up needle for low-angle injections without interference by the safety shield



### Sol-Care™ 1ml Luer Lock Syringe with Safety Needle combo - Low Dead Space

Ref. Number	Needle gauge	Needle Length	Average dead space	Box Qty	Case Qty
12515SN	25 G	40 mm 1 1/2"	17 microliters	50	300
12510SN	25 G	25 mm 1"	16 microliters	50	300
12558SN	25 G	16 mm 5/8"	16 microliters	50	300
12310SN	23 G	25 mm 1"	17 microliters	50	300

Additional reference and capacities available on request.



CE 2797



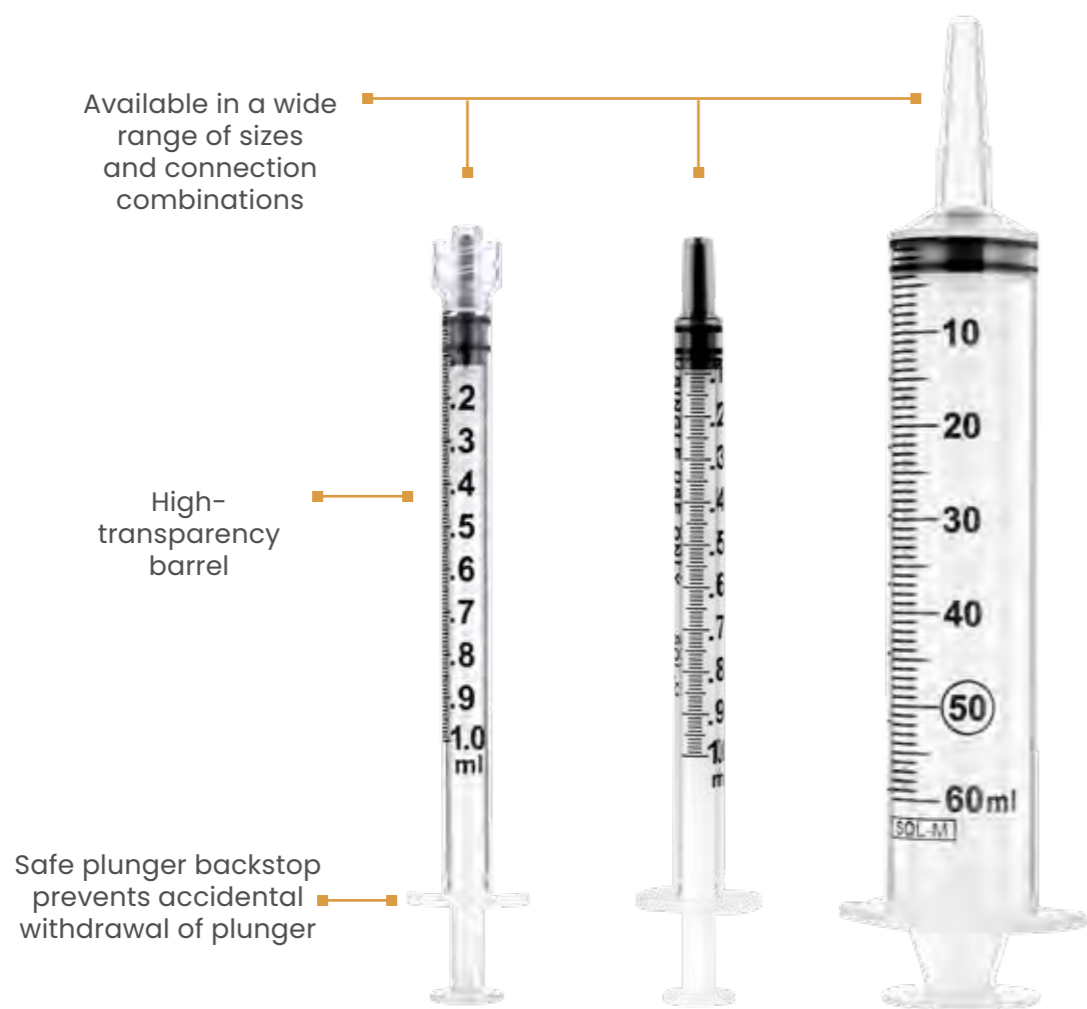
# Sol-M™

## 3-piece Syringe

Sol-M™ 3-Piece Syringes accurately measure the quantity of liquid medications and are available in a wide range of sizes and connection combinations to address a wide variety of clinical needs.

### Features:

- High-transparency barrel to easily visualize contents
- Silicone lubrication ensures smooth plunger movement
- Plunger backstop that prevents accidental withdrawal of plunger from the barrel
- Large finger grips allow for easy, controlled injections
- Available in Luer Lock, Luer Slip Tip, and Catheter Tip options



CE 2797

Luer Lock Syringe without needle

Luer Slip Tip Syringe without needle

Catheter Tip Syringe



Capacity	Luer Lock Tip	Luer Slip Tip	Eccentric Tip	Catheter Tip
1 ml	P180001PP* 180001** P180001***	P180011 P180011LDS*		
3 ml	P180003	P180003ST		
5 ml	P180005	P180005ST		
10 ml	P180010	P180010ST	P180010ET	
20 ml	P180020	P180020ST	P180020ET	
30 ml	P180030			
60 ml	P180060		P180060ET	180060CT
100 ml				180100CT

\*Syringe with Low Dead Space feature (polypropylene), \*\*Polycarbonate, \*\*\*Polypropylene



### Sol-M™ Luer Lock Syringe without Needle 3-Piece Syringe

Ref. Number	Volume	Box Qty	Case Qty
P180001PP*	1 ml	100	800
180001**	1 ml	100	800
P180001***	1 ml	100	800
P180003	3 ml	100	800
P180005	5 ml	100	800
P180010	10 ml	100	1200
P180020	20 ml	100	800
P180030	30 ml	50	400
P180060	60 ml	30	240

\*Low Dead Space (polypropylene), \*\*Polycarbonate, \*\*\*Polypropylene

### Sol-M™ Slip Tip Syringe without Needle 3-Piece Syringe - Luer Slip

Ref. Number	Volume	Box Qty	Case Qty
P180011	1 ml	100	800
P180011LDS*	1 ml	100	800
P180003ST	3 ml	100	800
P180005ST	5 ml	100	800
P180010ST	10 ml	100	1200
P180020ST	20 ml	100	800

\* Low Dead Space

### Sol-M™ Slip Tip Syringe without Needle 3-Piece Syringe - Eccentric Tip

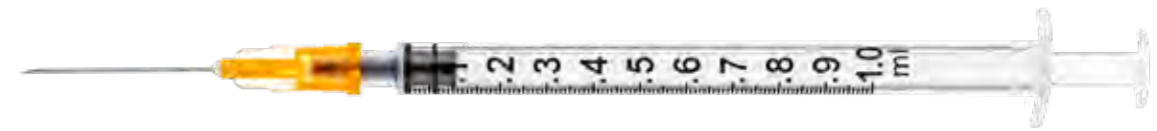
Ref. Number	Volume	Box Qty	Case Qty
P180010ET	10 ml	100	1200
P180020ET	20 ml	100	800
P180060ET	60 ml	30	240

### Sol-M™ Catheter Tip Syringe 3-Piece Syringe - Catheter Tip

Ref. Number	Volume	Box Qty	Case Qty
180060CT	60 ml	30	240
180100CT	100 ml	30	60

### Sol-M™ Slip Tip Syringe with Exchangeable Needle - Luer Slip

Ref. Number	Volume	Gauge	Needle Length (inches)	Needle Length (mm)	Box Qty	Case Qty
181025S	1 ml	25G	5/8"	16 mm	100	800



### Sol-M™ Syringe with Fixed Needle

Ref. Number	Volume	Gauge	Needle Length (inches)	Needle Length (mm)	Box Qty	Case Qty
181027	1 ml	27G	1/2"	12.5 mm	100	800
182025	1ml	25G	1"	25 mm	100	800
181023	1ml	23G	1"	25 mm	100	800



### Sol-M™ Luer Lock Syringe without Needle - Tray

Ref. Number	Volume	Tray Qty	Case Qty
180001T	1 ml	25	1000
180001TPC	1 ml	25	1000



## ● Allergy Syringe Trays

Sol-Millennium's Allergy Syringes are designed for mixing allergenic extracts. They have transparent barrels with bold, easy to read graduations that allow for accurate filling and dosing. They feature a low dead space design and are packaged in sterile convenience trays.

### Features:

- Low Dead Space design reduces waste and allows for more efficient medication delivery
- Clear, bold graduations for accurate filling and dosing
- Sterile trays for convenient filling of allergenic extracts
- Needles with Intradermal Bevel on select products



CE 2797

### Sol-M™ Allergy Syringe

Ref. Number	Product Description	Volume	Gauge	Needle Length	Tray Qty	Case Qty
181023T	Sol-M 1ml Mixing Syringe Tray 23G x 1/2"	1 ml	23 G	1/2"	25	1000
181026IDBT	Sol-M 1ml Allergy Syringe Tray 26G x 3/8" IDB*	1 ml	26 G	3/8"	25	1000
181026T	Sol-M 1ml Allergy Syringe Tray 26G x 1/2"	1 ml	26 G	1/2"	25	1000
181126IDBT	Sol-M 1ml Allergy Syringe Tray 26G x 1/2" IDB*	1 ml	26 G	1/2"	25	1000
181027IDBT	Sol-M 1ml Allergy Syringe Tray 27G x 3/8" IDB*	1 ml	27 G	3/8"	25	1000
181027T	Sol-M 1ml Allergy Syringe Tray 27G x 1/2"	1 ml	27 G	1/2"	25	1000

\*Intradermal Bevel = IDB

### Sol-Care™ Safety Syringe Allergy Tray

Ref. Number	Product Description	Volume	Gauge	Needle Length	Tray Qty	Case Qty
100069IM	Sol-Care 1ml Safety Syringe Allergy Tray 26G x 3/8" IDB*	1 ml	26 G	3/8"	25	1000
100032IM	Sol-Care 1ml Safety Syringe Allergy Tray 27G x 1/2"	1 ml	27 G	1/2"	25	1000

\*Intradermal Bevel = IDB



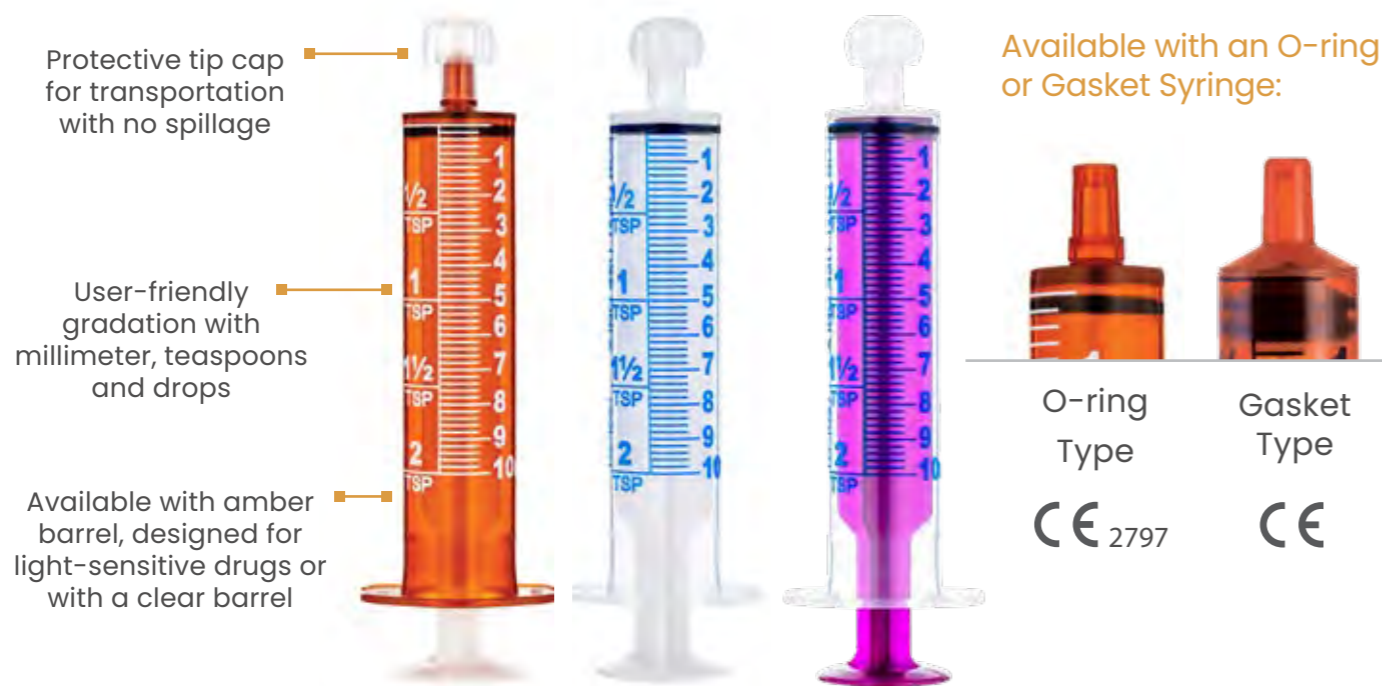
# Sol-M™

## Oral Dispensing Syringe

The Sol-M™ syringe has been specifically designed for use with oral medications, utilizing a special tip that will not accept Luer connectors, which lowers the risk of medication errors.

### Features:

- 3-piece syringe with O-ring and gasket
- Large variety of sizes and colors
- Clear graduation markings for accurate medication delivery
- Not made with natural rubber latex
- Special tip design will not accept Luer connectors, preventing medication errors and the accidental intravenous injections of oral liquids
- Optional amber barrel designed for light-sensitive drugs, in compliance with United States Pharmacopeia (USP) requirements



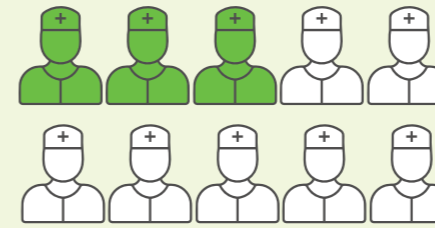
### Sol-M™ Oral Dispensing Syringe – O-ring Type

Ref. Number	Product Description	Colour	Volume	Box Qty	Case Qty
21001OA	Sol-M 1ml Oral Dispensing Syringe Amber w/ Tip Cap	Amber	1 ml	100	400
21001OC	Sol-M 1ml Oral Dispensing Syringe Clear w/ Tip Cap	Clear	1 ml	100	400
21001OP	Sol-M 1ml Oral Dispensing Syringe Purple w/ Tip Cap	Purple	1 ml	100	400
21003OA	Sol-M 3ml Oral Dispensing Syringe Amber w/ Tip Cap	Amber	3 ml	100	400
21003OC	Sol-M 3ml Oral Dispensing Syringe Clear w/ Tip Cap	Clear	3 ml	100	400
21003OP	Sol-M 3ml Oral Dispensing Syringe Purple w/ Tip Cap	Purple	3 ml	100	400
21005OA	Sol-M 5ml Oral Dispensing Syringe Amber w/ Tip Cap	Amber	5 ml	100	400
21005OC	Sol-M 5ml Oral Dispensing Syringe Clear w/ Tip Cap	Clear	5 ml	100	400
21005OP	Sol-M 5ml Oral Dispensing Syringe Purple w/ Tip Cap	Purple	5 ml	100	400
20010OA	Sol-M 10ml Oral Dispensing Syringe Amber w/ Tip Cap	Amber	10 ml	100	400
21010OC	Sol-M 10ml Oral Dispensing Syringe Clear w/ Tip Cap	Clear	10 ml	100	400
21010OP	Sol-M 10ml Oral Dispensing Syringe Purple w/ Tip Cap	Purple	10 ml	100	400
21020OP	Sol-M 20ml Oral Dispensing Syringe Purple w/ Tip Cap	Purple	20 ml	50	400

### Sol-M™ Oral Dispensing Syringe – Gasket Type\*

Ref. Number	Product Description	Colour	Volume	Box Qty	Case Qty
21001GANSB	SOL-M 1ml Oral Dispensing Syringe Amber w/ Tip Cap (Gasket type, bulk, non-sterile)	Amber	1 ml	100	500
21001GCNSB	Sol-M 1ml Oral Dispensing Syringe Clear w/ Tip Cap (Gasket type, bulk, non-sterile)	Clear	1 ml	100	500
21003GANSB	Sol-M 3ml Oral Dispensing Syringe Amber w/ Tip Cap (Gasket type, bulk, non-sterile)	Amber	3 ml	100	500
21003GCNSB	Sol-M 3ml Oral Dispensing Syringe Clear w/ Tip Cap (Gasket type, bulk, non-sterile)	Clear	3 ml	100	500
21005GANSB	Sol-M 5ml Oral Dispensing Syringe Amber w/ Tip Cap (Gasket type, bulk, non-sterile)	Amber	5 ml	100	500
21005GCNSB	Sol-M 5ml Oral Dispensing Syringe Clear w/ Tip Cap (Gasket type, bulk, non-sterile)	Clear	5 ml	100	500
21010GANSB	Sol-M 10ml Oral Dispensing Syringe Amber w/ Tip Cap (Gasket type, bulk, non-sterile)	Amber	10 ml	100	500
21010GCNSB	Sol-M 10ml Oral Dispensing Syringe Clear w/ Tip Cap (Gasket type, bulk, non-sterile)	Clear	10 ml	100	500

# INFUSION



**3 out of 10 healthcare workers had at least one exposure to blood or bodily fluids.**



Healthcare workers are exposed to blood and bodily fluids in the workplace through needlesticks, sharps injuries, and splashes into the eyes, nose, or mouth. This puts them at risk of contracting bloodborne pathogens, such as hepatitis C, hepatitis B, and HIV. **One study of nearly 1,000 healthcare workers found that 29.6% of the healthcare workers surveyed had at least one accidental exposure in the previous year.**<sup>2</sup>

Protect your healthcare workers with Sol-Millennium's® infusion products that are designed with advanced features to help prevent needlestick injuries and occupational blood exposure.

1. World Health Organization: Health care worker safety: AIDE-MEMOIRE for a strategy to protect health workers from infection with bloodborne viruses. 2013. [http://www.who.int/injection\\_safety/toolbox/en/AM\\_HCW\\_Safety\\_EN.pdf](http://www.who.int/injection_safety/toolbox/en/AM_HCW_Safety_EN.pdf) (accessed August 16, 2013)

2. Alhazmi, Riyadh. "Occupational Exposure to Blood and Bodily Fluids among Health Care Workers." *Medical Principles and Practice*, vol. 24, no. 1, Jan. 2015, pp. 36-41., doi:10.33915/etd.5065.

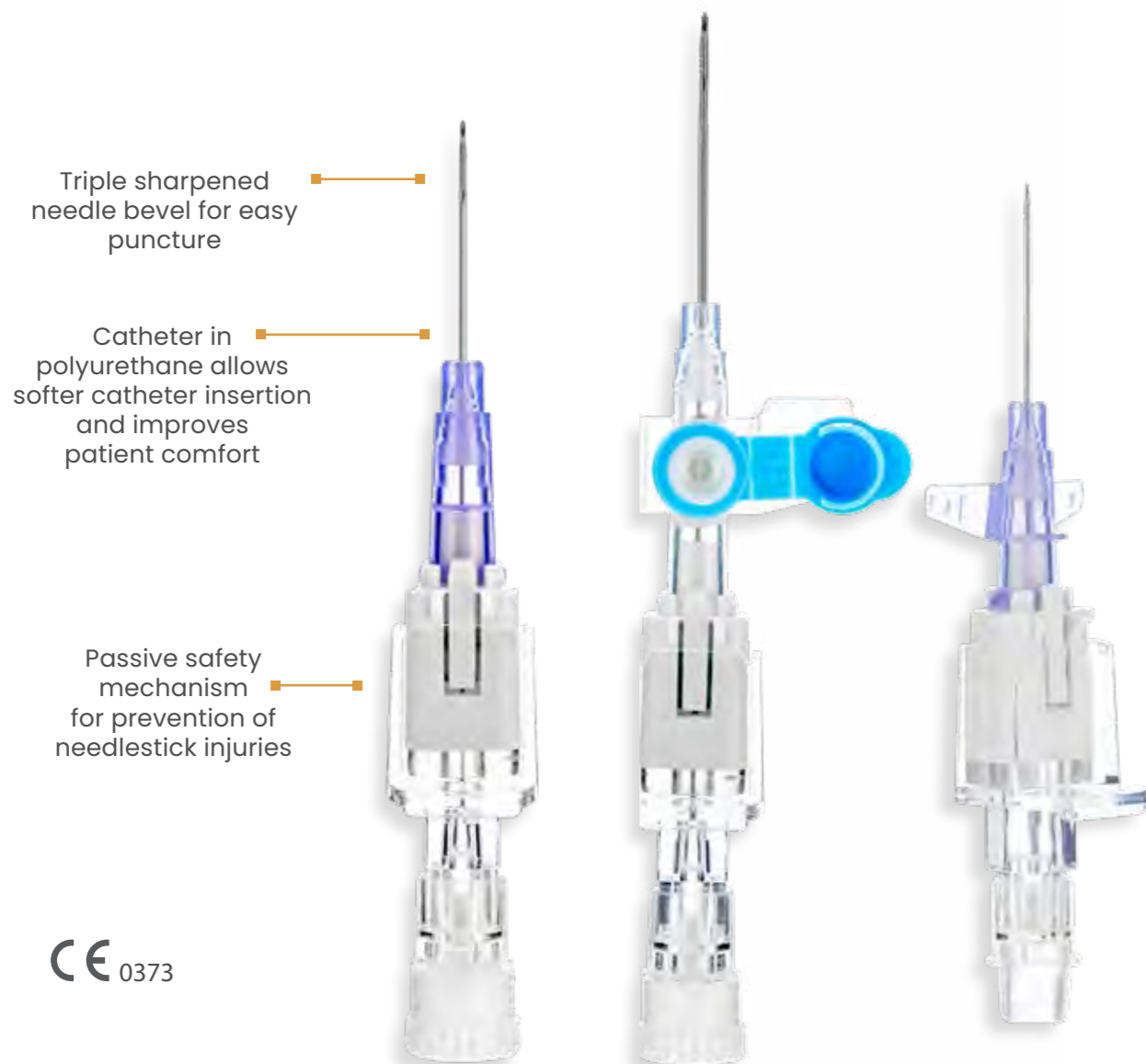
## IV Catheter with Protector

IV Catheter is intended for the intravenous delivery of medication- both continuous and intermittent. Available is standard version and also with a safety feature which covers the needle bevel for the prevention of needle stick injuries.



### Features:

- Safety device is equipped with an automatic system for covering the tip of the needle to protect the operator from accidental injury.
- Triple sharpened needle bevel for easy puncture.
- Catheter in polyurethane (PUR) allows softer catheter insertion and improves patient comfort.
- Available with wings for stable insertion.
- Wide range of catheter gauges and lengths to meet majority of clinical use, particularly for Neonatology.



CE 0373

Single Entry S

Dual Entry W

Single Entry W

## IV Catheter with Protector

Ref. Number	Product Description	Gauge	Needle Length (mm)	Box Qty	Case Qty
3708122	Single Entry W	26G	19 mm	50	200
3718122	Single Entry W	24G	19 mm	50	200
3728122	Single Entry W	22G	25 mm	50	200
3738122	Single Entry W	20G	32 mm	50	200
3788122	Single Entry W	18G	32 mm	50	200
3748122	Single Entry W	18G	45 mm	50	200
3758122	Single Entry W	17G	45 mm	50	200
3768122	Single Entry W	16G	45 mm	50	200
3778122	Single Entry W	14G	45 mm	50	200

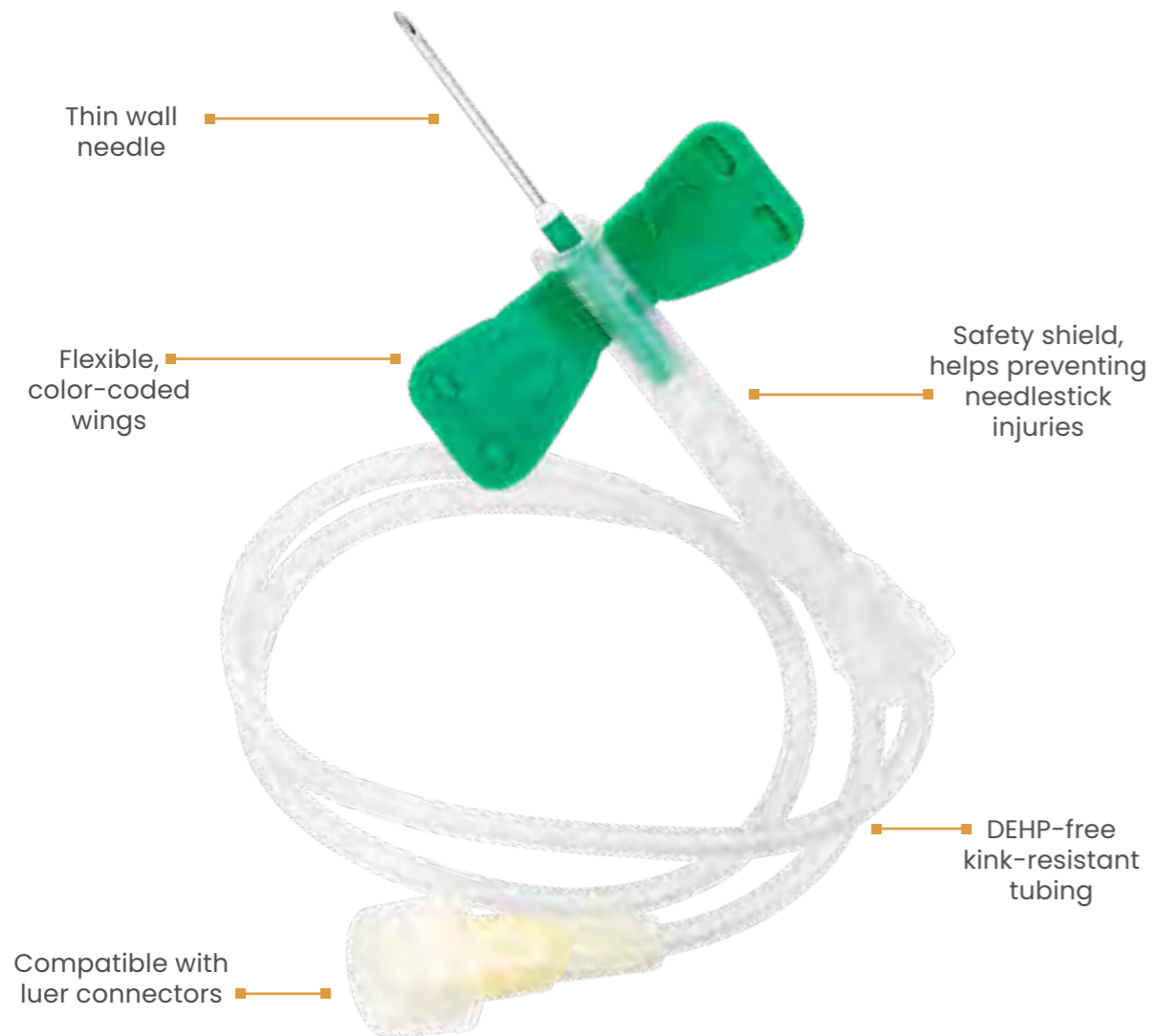
3708522	Single Entry S	26G	19 mm	50	200
3718522	Single Entry S	24G	19 mm	50	200
3728522	Single Entry S	22G	25 mm	50	200
3738922	Single Entry S	20G	30 mm	50	200
3738522	Single Entry S	20G	32 mm	50	200
3788522	Single Entry S	18G	32 mm	50	200
3748522	Single Entry S	18G	45 mm	50	200
3758522	Single Entry S	17G	45 mm	50	200
3768522	Single Entry S	16G	45 mm	50	200
3778522	Single Entry S	14G	45 mm	50	200

3704022	Dual Entry	26G	19 mm	50	200
3713122	Dual Entry	24G	19 mm	50	200
3723122	Dual Entry	22G	25 mm	50	200
3733122	Dual Entry	20G	32 mm	50	200
3783122	Dual Entry	18G	32 mm	50	200
3743122	Dual Entry	18G	45 mm	50	200
3753122	Dual Entry	17G	45 mm	50	200
3763122	Dual Entry	16G	45 mm	50	200
3773122	Dual Entry	14G	45 mm	50	200

# Sol-Care™

## ● Safety Winged Infusion Set

Sol-Care™ Safety Winged Infusion Sets are intended for short-term IV medication administration. Each infusion set is equipped with a safety mechanism that is activated after the infusion has completed, helping to prevent needlestick injuries.



CE 0123

### Sol-Care™ Safety Winged Infusion Set

Ref. Number	Product Description	Gauge	Needle Length (inches)	Needle Length (mm)	Tubing Length (inches)	Tubing Length (mm)	Box Qty	Case Qty
213412SI	SOL-CARE Safety Winged Infusion Set 21G x 3/4 x 12"	21 G	3/4"	19 mm	12"	305mm	50	200
223412SI	SOL-CARE Safety Winged Infusion Set 22G x 3/4 x 12"	22 G	3/4"	19 mm	12"	305mm	50	200
233412SI	SOL-CARE Safety Winged Infusion Set 23G x 3/4 x 12"	23 G	3/4"	19 mm	12"	305mm	50	200
253412SI	SOL-CARE Safety Winged Infusion Set 25G x 3/4 x 12"	25 G	3/4"	19 mm	12"	305mm	50	200



## Saline Flush – 0.9% USP Sodium Chloride Injection

Pentaflush Pre-filled Saline Syringe provide ready-to-use saline flush solution for flushing of central and peripheral vascular access device. PentaFlush is a product of PentaFerte Italia.

### Features:

- CRBSIs risk reduction
- Bacterial contamination reduction
- Disposal reduction
- Catheter patency maintenance
- Contact prevention of incompatible medications or fluids
- Needlestick injuries avoidance
- Nurse workflow enhancement
- Streamlining of ward procedures

Needle Free Design  
White safety cap  
For easy identification

0.9% Sodium Chloride filled  
Ready to use

Identical diameter  
among 4 sizes syringes  
Prevent catheter damage



CE 0123

## Saline Flush – 0.9% USP Sodium Chloride Injection

Ref. Number	Product Description	Volume	Box Qty	Case Qty
060022420	3ml pre-filled syringe 0.9% NaCl	3 ml	30	120
060022520	5ml pre-filled syringe 0.9% NaCl	5 ml	30	120
060022620	10ml pre-filled syringe 0.9% NaCl	10 ml	30	120
060022720	20ml pre-filled syringe 0.9% NaCl	20 ml	20	80
060025420	3ml pre-filled syringe 0.9% NaCl Aluminium Pack	3 ml	30	120
060025520	5ml pre-filled syringe 0.9% NaCl Aluminium Pack	5 ml	30	120
060025620	10ml pre-filled syringe 0.9% NaCl Aluminium Pack	10 ml	30	120
060025720	20ml pre-filled syringe 0.9% NaCl Aluminium Pack	20 ml	20	80

### Suitable for sterile field

- Externally sterile
- Individually packed
- Aluminium pack available for procedural kit
- Not made with natural rubber latex
- PVC-free, Preservative-free



- Needle free design
- Standard Luer Lock
- White-coded cap
- Bold graduation
- Available in 4 sizes
- Not intended for drug reconstitution

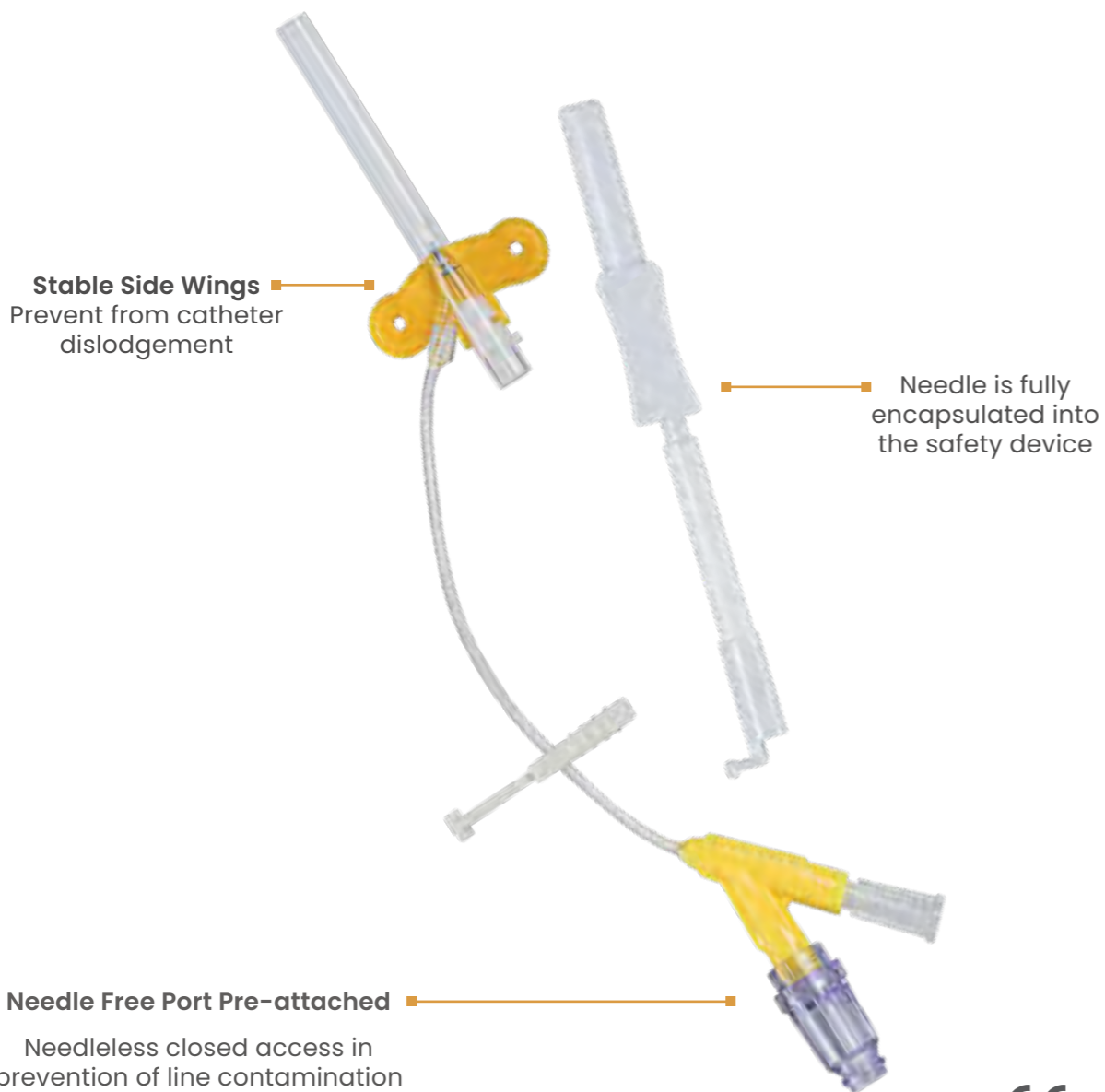
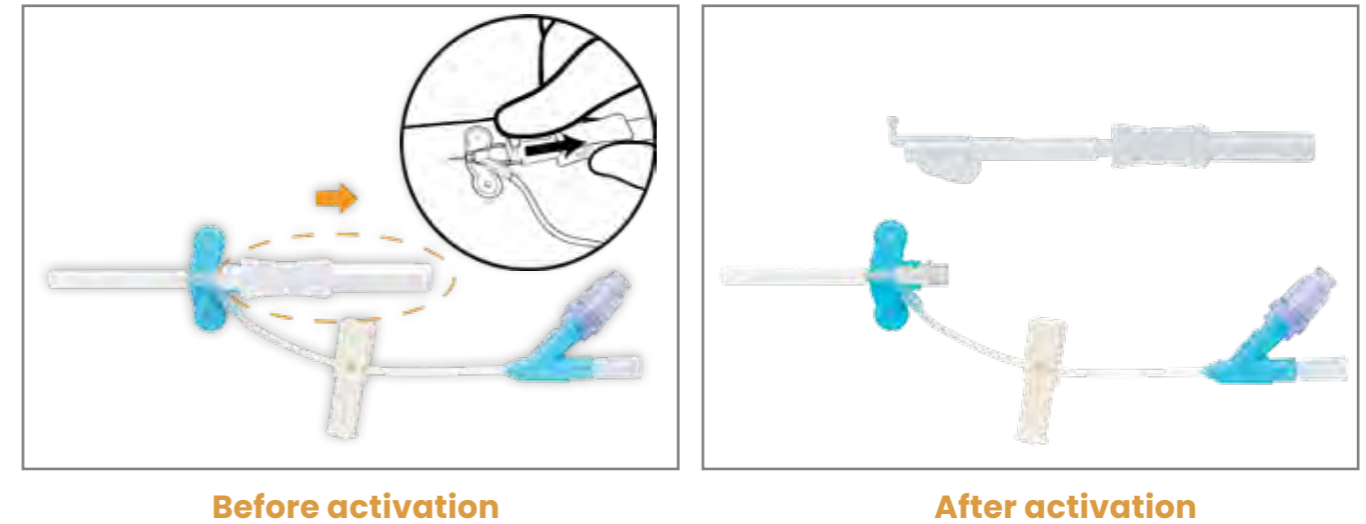


# Sol-Care™

## ● Safety IV Catheter Closed System

Sol-Care™ Safety IV Catheter Closed System is single use indwelling device consists of medical plastics, stainless steel needle, wings and extension sets. The device can be single port and dual port with needle free port. It is used to insert into the human peripheral vascular system for clinical infusion.

The device features passive safety mechanism that offers protection from needle stick injury after the needle is withdrawn from the patient.



CE 0197

### Sol-Care™ Safety IV Catheter Closed System

Ref. Number	Port Type	Gauge	Catheter Length (mm)	Extension Tube Length (mm)	Gravity Flow (ml/min)	Prime Volume (ml)
CIV001	Single port	18G	30 mm	90 mm	84	0.5
CIV002	Single port	20G	30 mm	90 mm	49	0.5
CIV003	Single port	20G	25 mm	90 mm	49	0.4
CIV004	Single port	22G	25 mm	90 mm	32	0.4
CIV005	Single port	24G	19 mm	90 mm	18	0.4
CIV006	Dual Port	18G	30 mm	90 mm	84	0.5
CIV007	Dual Port	20G	30mm	90 mm	49	0.5
CIV008	Dual Port	20G	25 mm	90 mm	49	0.4
CIV009	Dual Port	22G	25 mm	90 mm	32	0.4
CIV010	Dual Port	24G	19 mm	90 mm	18	0.4

Sales Units: 50 units/box, 200 units/case

# Sol - M™

## IV Dressing

Sol-Millennium® offers two types of catheter dressing:

Non-woven dressing consists of absorbent cotton pad laminated to a spun-laced non-woven with a medical grade, acrylic adhesive on a glassine release paper.

PU film dressing is transparent dressing made of high-permeable polyurethane (PU) film, with high moisture permeable medical degree acrylic adhesive. It can be full film or pre-cut film.

The dressings are designed to fix IV catheter to help to protect from CRBSI (Catheter-related Bloodstream Infection) and related local complications.

U-shaped incision with non-woven

- Absorbed pad
- Easy peer-off back paper
- Pre-attached tape on back



CE 0123

PU film pre-cut

U-shaped incision with spun lanced non-woven

- Suitable for use with IV catheters with Wings or Injection Port
- Increase skin comfort

Pre-attached tape  
Additional catheter fixation

Transparent polyurethane  
Easy to observe injection site film(PU)

Easy peer-off back paper

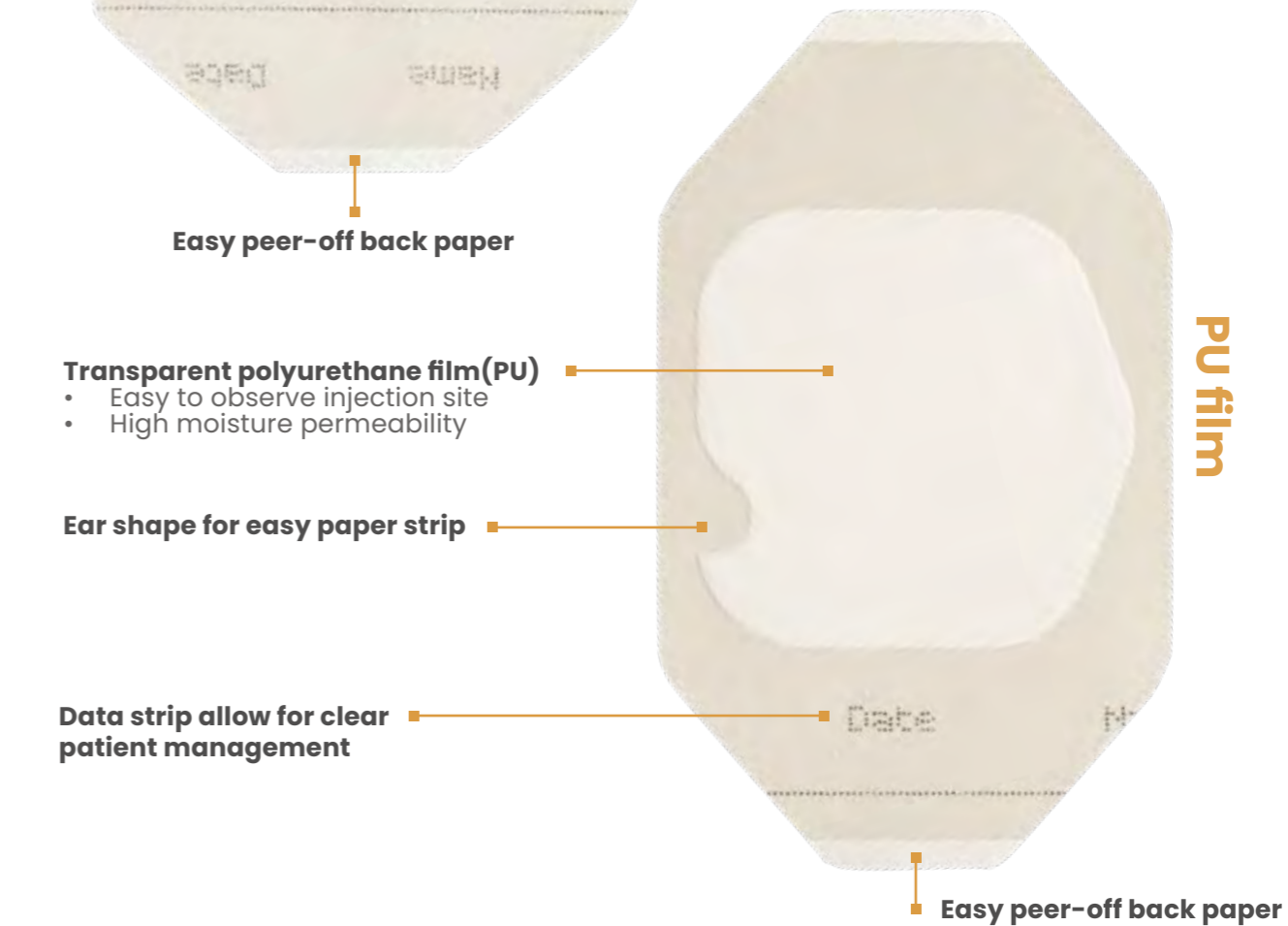
Transparent polyurethane film(PU)

- Easy to observe injection site
- High moisture permeability

Ear shape for easy paper strip

Data strip allow for clear patient management

Easy peer-off back paper



### Sol-M™ IV Dressing

Ref. Number	Product Description	Size
DRE001	Non-woven	6 x 8 cm
DRE002	PU film pre-cut	7 x 9 cm
DRE003	PU film	6 x 7cm

Sales Units: 100 units/box; 800 units/case



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