Sol-Millennium [®] **Low Dead Space Injection Devices**for COVID-19 vaccination campaign







A FEW WORDS ABOUT US

SOL-MILLENNIUM Medical Group is a relatively new enterprise at just 10 years old, but is quickly building a reputation as a trusted, reliable and customer-focused partner to the healthcare industry.

Whilst we may be young, our reach is wide with presence across the globe. You will find us in Europe, North America, South America and SE Asia.

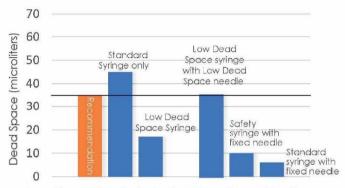


Our approach to product development is simple. We are particularly careful to ensure that the design of our products are intuitive and easy to use, thereby minimising the impact on application technique.

Our team is experienced and knowledgeable and we are here to help you operate efficiently, effectively and economically. Our new R&D facility in Switzerland has been increasing and enhancing our current comprehensive range of products.

At SOL-MILLENNIUM we know what we do best – we make good quality, affordable medical devices that are familiar, safe and easy to use.

Importance of Low Dead Space injection device during COVID-19 pandemic



Dead Space in selected syringe/needle combinations

For the administration of Pfizer's Covid-19 vaccine, use of syringe and needle combinations having an average dead space of 35 microliters (0.035 ml) enables to widthdraw 6 doses from a vial instead of the usual 5 doses².

Vaccination became a priority in the context of the pandemic situation.

The syringe used for vaccination should waste as little vaccine as possible while being accurate and reliable.

Injection device with low dead space, also known as 'dose-sparing' device, increases the amount of useable vaccine withdrawn from a multi-dose vial allowing for greater distribution of the vaccine¹, such as it is the case for COVID-19 vaccination with some vaccine².

Use of low dead space syringes does not require any change in current clinical practice and represents financial savings as well.

References:

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.} EMA 2021. Extra dose from vials of Comirnaty COVID-19 vaccine. News 08/01/2021. Available on-line at www.ema.europa.eu. Accessed 22 January 2021.

Sol-Millennium[®] **Low Dead Space Injection Devices** for COVID-19 vaccination campaign

Low dead space solutions offered by SOL-MILLENNIUM®

SOL-M[™] 1ml Slip Tip Syringe only Low Dead Space



Average dead space 17 microliters

SOL-M™ 1 ml Luer Lock Syringe only Low Dead Space



Average dead space 17 microliters

SOL-CARE 1 ml Luer Lock Syringe with Safety Needle combo Low Dead Space



Average dead space < 30 microliters

Ultra low dead space solutions offered by SOL-MILLENNIUM®

SOL-CARE™ TB Safety Syringe 25G x 1"



Average dead space 10 microliters

SOL-GUARD TB Safety Syringe 25G x 1"



Average dead space 6 microliters

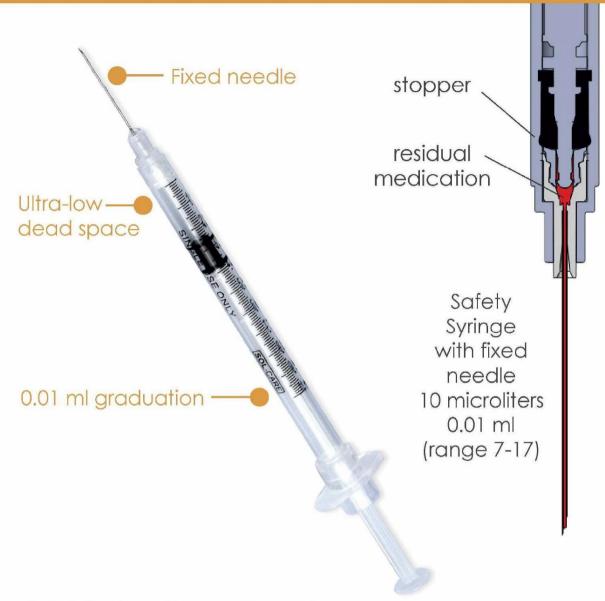
SOL-M™ Syringe with fixed needle 25G x 1"



Average dead space 6 microliters

SOL-CARE™ Safety Syringe

with fixed needle



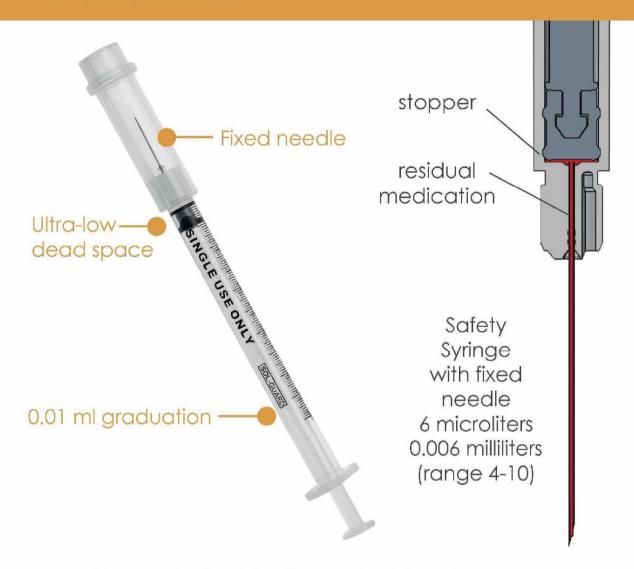
Safety feature: the needle can be retracted inside the barrel after use.

C € 2797 FDA 510k cleared

SOL-CARE™ 1ml Safety Syringe with fixed needle						
Reference number	Needle gauge	Needle length		Average	Shelf Box /	
		mm	in	dead space	Shipping Case (pcs)	
100034IM	25 G	25 mm	1"	10 microliters	100/1000	

SOL-GUARD™ Safety Syringe

with fixed needle



Immediately following injection, extend the safety shield forward fully until an audible click is heard. To lock the safety shield, twist in either direction until you feel the positive stop and hear an audible click.

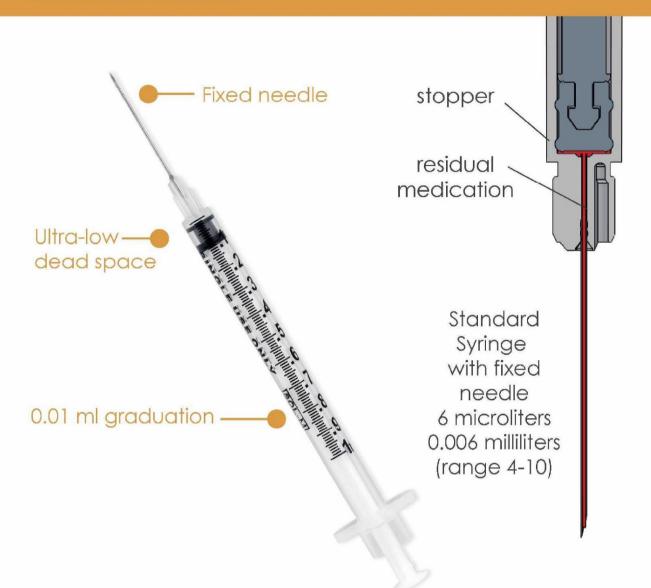
C€ 2797

FDA 510k cleared

SOL-GUARD™ 1ml Safety Syringe with fixed needle						
Reference number	Needle gauge	Needle length		Average	Shelf Box /	
		mm	in	dead space	Shipping Case (pcs)	
200034SG	25 G	25 mm	1"	6 microliters	100/800	

SOL-M™ Syringe

with fixed needle

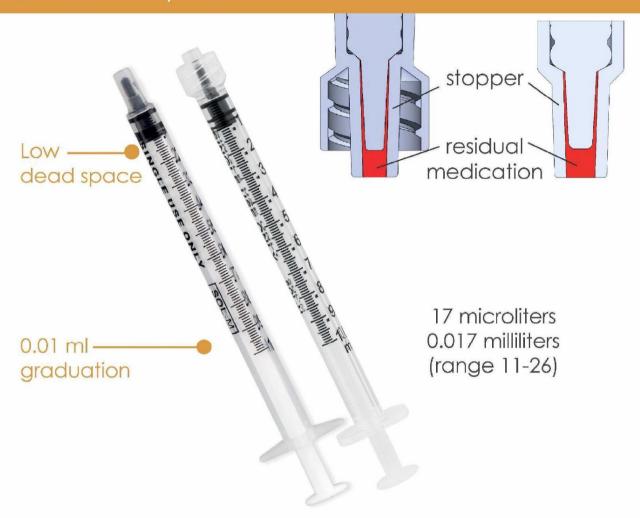


C € 2797 FDA 510k cleared

SOL-M™ 1ml Syringe with fixed needle						
Reference number	Needle gauge	Needle length		Average	Shelf Box /	
		mm	in	dead space	Shipping Case (pcs)	
182025	25 G	25 mm	1"	6 microliters	100/800	
181023	23 G	25 mm	1"	7 microliters	100/800	

SOL-M™ Syringe

Low Dead Space



Ability to change needle for aspiration and injection phase

P180001PP

FDA 510k cleared

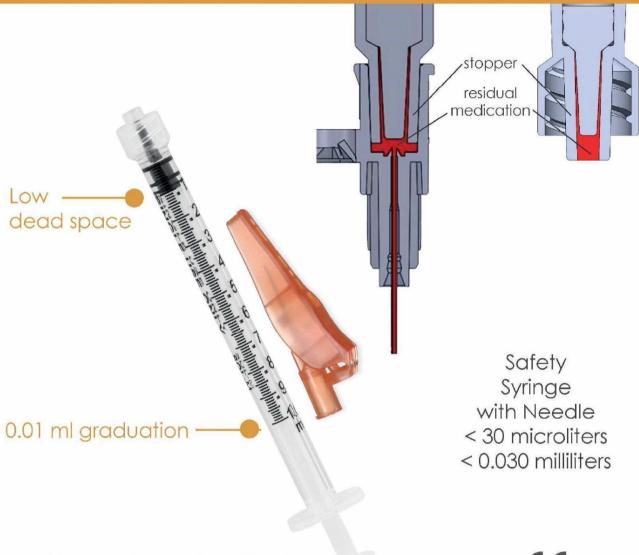
100/800

SOL-M™ 1ml Slip Tip Syringe w/o Needle (low dead space)							
Reference number	Syringe volume	Average dead space	Shelf Box / Shipping Case (pcs)				
P180011LDS	1 ml	17 microliters	100/800				
SOL-M™ 1ml Luer Lock Syringe w/o Needle (low dead space)							
Reference number	Syringe volume	Average dead space	Shelf Box / Shipping Case (pcs)				

17 microliters

SOL-CARE™ Syringe Low Dead Space

with Safety Needle Low Dead Space



Ability to change needle for aspiration and injection phase

C E 2797 FDA 510k cleared

SOL-CARE™ 1ml Luer Lock Syringe with Safety Needle combo						
Reference number	Needle gauge	Needle length		Average	Shelf Box /	
		mm	l in	dead space	Shipping Case (pcs)	
12515SN	25 G	40 mm	1 1/2"	< 30 microliters	50/300	
12510SN	25 G	25 mm	1"	< 30 microliters	50/300	
12558SN	25 G	16 mm	5/8"	< 30 microliters	50/300	
12310SN	23 G	25 mm	1"	< 30 microliters	50/300	

SOL-CARE™ Safety Needle

Low Dead Space



Two options for protective arm activation:



Hard surface activation



Thumb activation

Reduces the medication waste

Safety Needle < 15 microliters < 0.015 milliliters

C € 2797 FDA 510k cleared

SOL-CARE™ Safety Needle						
Reference number	Needle gauge	Needle length		Average	Shelf Box / Shipping Case (pcs)	
		mm	in	dead space	Shipping Case (pcs)	
SN2515	25 G	40 mm	1 1/2"	< 15 microliters	100/800	
SN2510	25 G	25 mm	1"	< 15 microliters	100/800	
SN2558	25 G	16 mm	5/8"	< 15 microliters	100/800	
SN2310	23 G	25 mm	1"	< 15 microliters	100/800	





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