

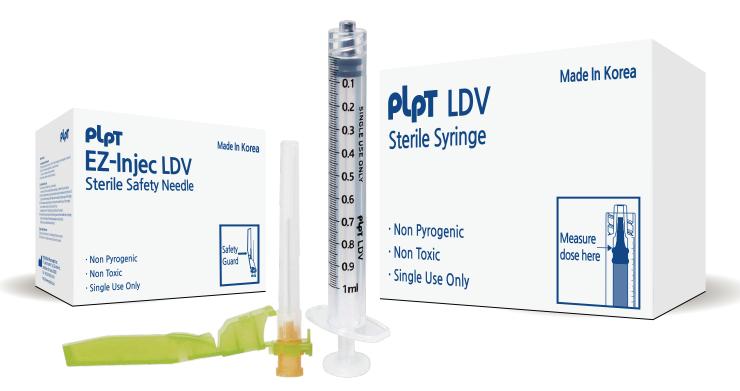




PLPT LDV(LDS)

Sterile Syringe

LDV LL Syringe has a Luer-Lock with a screw inside the top, and LDV LC Syringe has a cone-shaped top. With an extended (three-stage conical) plunger that inserts into the neck of the barrel to expel more fluid from the syringe by pushing the plunger rod. By using medical device grade material (polypropylene), the LDV syringe shows clear transparency, and due to its high heat resistance, it can be sterilized after filling in the solution. LC/LL products have the same inner diameter, and the Luer-Lock type has a thicker outer diameter than the Luer-Cone type.



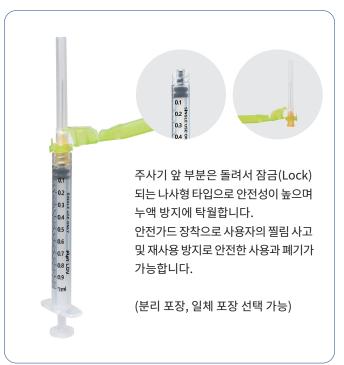
- √ No Dead Volume *Pfizer's office residual volume test
- √ Individually Blister Packing
- √ Medical Device Grade(Polypropylene)
- √ Clear Transparency, High heat resistance
- ✓ Sterilization is possible after filling in the Solution

- V FDA 510(K) Cleared ⋅ (€2764 · ISO 13485
- √ Safety Guard Technology
- ✓ Prevent Secondary Infection
- √ Disposable
- ✓ Integral feature reduces the risk of the leakgage and pop-off

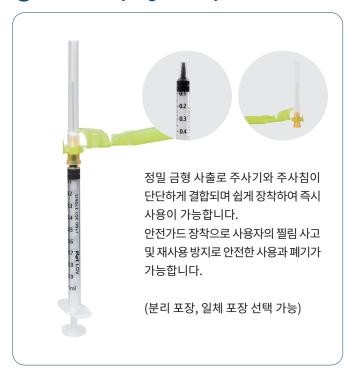
ltem	Article No.	1 Inner Box	1 Out Box	1 Pallet
1ml LDV Luer-Lock Syringe	AS010001	100 / 0.64kg	1,200 / 8.78kg	28,800 / 222.19kg
SG25-25	AS020009	100 / 0.28kg	1,800 / 6.25kg	43,200 / 161.67kg

PLPT LDV Option / Available to customize

1 Luer-Lock Syringe + Safety Guard



2 Luer-Cone Syringe + Safety Guard



3 Luer-Lock Syringe + Y-cap



4 Luer-Cone Syringe + Y-cap



PLPT LDV Sterile Syringe

- •Manufacturing License number 22-4080 · FDA Cleared · **€** 2764 · **⊚** ·ISO 13485, ISO 7886-1, ISO 80369-7
- •Needle Tip: 3 Bevels 5 Bevels · Length: 16mm(5/8") -25mm(1")
- •Guage: 21G~34G can be manufactured upon request of customer
- •Pfizer's official residual volume test
- •Produced in accodance with the Ministry of Food and Drug Safety and ISO Standars
- •E.O Gas Sterilization · Expiration date : 3 years
- •This product is a "disposable medical device". Please read and usd "Precautions for use" and "How to use" cafully
- •In-House Production of All Parts

LDV Luer Lock Syringe Set



XSyringe, Needle Separated Packing

LDV Luer Lock Syringe Safety Guard



Syringe, Needle All-in-one Packing

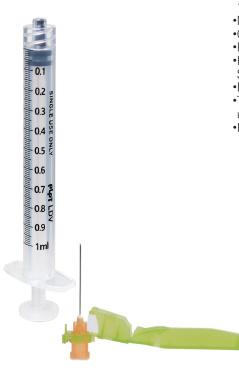
LDV Luer Cone Syringe Safety Guard



XSyringe, Needle All-in-one Packing

LDV Syringe set capa

	Div			Unit	Functional Strengths	Remark
1ml	LUER LOCK	Separated (two pieces)	15,000,000	set	Safety guard needle adopted (single use only)	Safety guard needle separately packed
syringe	LUER LOCK	All-in-one	15,000,000	set	Safety guard needle adopted (single use only)	Safety guard needle and syringe is packed on one package.
1ml syringe	LUER CONE	All-in-one	15,000,000	set	Safety guard needle adopted (single use only)	Safety guard needle and syringe is packed on one package.
0.5ml syringe	LUER CONE	All-in-one	15,000,000	set	Safety guard needle adopted (single use only)	Safety guard needle and syringe is packed on one package.

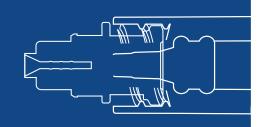






-03

LDV Syringe



Product Features

LDV LL Syringe has a Luer-Lock with a screw inside the top, and LDV LC Syringe has a cone-shaped at the top.

with an extended (three-stage conical) plunger that inserts into the neck of the Barrel to expel more fluid from the syringe by pushing the Plunger rod. By using medical device grade material (polypropylene), LDV syringe shows clear transparency and due to its high heat resistance, it can be sterilized after filling in the solution.

LC/LL products have the same inner diameter, and the Luer-Lock type has a thicker outer diameter than the Luer-Cone type.

- + Manufacturing License number 19-4547
- + Produced in accordance with the Ministry of Food and Drug Safety and ISO standards.
- + FDA 510(K) Cleared · **(** € 2764 · **(((** 2764 · **(((** 2764 · **(((** 2764 · **(((** 2764 · **(((** 2764 · **(((** 2764 · **(((** 2764 · **(((** 2764 · **(((** 2764 · **(((** 2764 · **(((** 2764 · **((** 2764 · **(((** 2764 · **(((** 2764 · **((** 2764 · **((** 2764 · **((** 2764 · **(** 2764
- + E.O Gas Sterilization
- + Expiration date: 3 years
- + This product is a "disposable medical device".

 Please read and use "Precautions for use" and "How to use" carefully.
- + In-House Production of All Parts

Product Detail This product is a medical device that complies with the Ministry of Food and Drug Safety's medical.

1 Luer-Lock

Luer-Lock structure conforms to ISO standards, so it is compatible with all needles. It's an integral feature that reduces the risk of leakage and pop-off.

3 Plunger

The plunger structure has a three-stage conical shape that narrows upwards. By meeting the design of the three-stage structure of the Luer-Lock inner diameter, it allows maximizing Low Dead Volume Efficiency when injecting the solution.

5 Barrel

The long and an inner diameter of the barrel allows the Injection force to be low for accurate dosages

6 Flange (Finger grip)

The Flange (Finger Grip), which is integrated with Barrel, is ergonomically designed to allow stable injection with a comfortable grip when administered



2 Luer-Cone

Luer-Cone structure conforms to ISO standards, so it is compatible with all needles. The Needle is firmly fastened to the top with a quicker and superior binding force that directly engages the Syringe.

4 Plunger Rod

The part of the plunger rod (Part A) where the force is applied by the thumb is circular, preventing slippage and allowing stable injection when administering drugs.

LDV(Low Dead Volume)

LDV(S) (Low Dead Volume (Space))
There is almost no space for Dead Volume
(When used with our PLPT EZ-Inject LDV
Sterile Needle to reduce costs and maximize
efficiency with approximately 4µL remaining)

Pfizer's official residual volume test





Product Features

A disposable sterilized injection needle combined with a Safety Guard is a needle that protects the safety of medical personnel and patients, combined with a safety guard that prevents reuse and enables safe disposal.

When used in conjunction with our LDV Sterile Syringe, excellent coupling, leakage and pop-off is reduced.

- + Manufacturing License number 19-4547
- + Produced in accordance with the Ministry of Food and Drug Safety and ISO standards.
- + FDA 510(K) Cleared · **C** € 2764 · **(3)** · ISO 13485
- + E.O Gas Sterilization
- + Expiration date: 3 years
- + This product is a "disposable medical device". Please read and use "Precautions for use"
- + and "How to use" carefully. In-House Production of All Parts

 $\textbf{Product Detail} \quad \textbf{This product is a medical device that complies with the Ministry of Food and Drug Safety's medical.}$

1 Safety Guard

Thanks to the V-cut design of the safety guard, prevent secondary infection and reuse. After Injecting the medicine into the human body, the safety guard is combined with the needle and makes safe disposal possible. Push the safety guard with one hand or against a hard surface to prevent reuse and safe disposal.

3 Needle

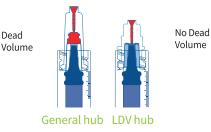
Disposable sterilization needles are used to inject medicine, etc. into the human body or attract body fluids.

- Gauge: 25G, 26G 26G is a 5-Bevel technology suitable for under-18s by increasing subcutaneous penetration and minimizing pain.
- Gauges can be manufactured upon request of the customer (18~34G)



2 Hub

By reducing the length of the needle hub, the empty space for solution is reduced. Optimized Dead Volume Function. (When used with PLPT LDV Sterile Syringe, the residual volume of approximate 4µL reduces cost and maximizes efficiency)



The LDV function of LL/LC is the same.

4 Needle Cap

A Cap(cover) to protect the needle.

EZ-Injec LDV Sterile Safety Needle

- •Manufacturing License number 19-4547 · FDA Cleared · €2764 · → ISO 13485, ISO 7864, ISO 9626, ISO 80369-7
- •Needle Tip: 3 Bevels 6 Bevels
- •Length : 16mm(%") -25mm(1")
- •Guage: 21G~34G can be manufactured upon request of customer
- •Pfizer's officual residual volume test
- •Produced in accodance with the Ministry of Food and Drug Safety and ISO Standards
- •E.O Gas Sterilization
- •Expiration date: 3 years
- •This product is a "disposable medical device". Please read and usd "Precautions for use" and "How to use" carefully
- •In-House Production of All Parts



Needle Hub When used with PLPT LDV Sterile Syringe, the residual volume of approximate 4µL reduces cost and maximizes efficiency Safety Guard The effective prevention of needlestick injuries and reuse, makes safe disposal possible



Unique Mirror Tube Technology Inner-outer mirror surface finish

- •Large inner Diameter
- •Same Outer Diameter

The international of the needle is wider than the ISO 9262:2016 Solution can be fully injected even under Iwo injection force.

Specificaition

Sterile disposable product to inject medicines into the body and withdraw fluids from the body. Compatible with all syringes and exceptional binding force.

CE certified product advantages in licensing export product. The validity period(Shelf life) is five years from the date of manufacture.

	EZ-Injec Needle		ISO Standard		
Gauge	Inner Diameter (mm)(min)	Outer Diameter (mm)(min)	Inner Diameter (mm)(min)		
34G	0.091	0.178~0.191	RW: 0.064 TW: 0.091 ETW: 0.105		
32G	0.125	0.229~0.241	RW: 0.089 TW: 0.105 ETW: 0.125 UTW: 0.146		
30G	0.210	0.298~0.32	RW: 0.133 TW: 0.165 ETW: 0.190 UTW: 0.240		
27G	0.290	0.40~0.42	RW: 0.184 TW: 0.241		
25G	0.370	0.50~0.53	RW: 0.232 TW: 0.292		
23G	0.460	0.60~0.673	RW: 0.317 TW: 0.370 ETW: 0.61 UTW: 0.645		
21G	0.610	0.80~0.83	RW: 0.490 TW: 0.547 ETW: 0.61 UTW: 0.645		

*Could be ordered at the request of the customer

5-Bevel Technology



Penetration Force TestResult

PLPT 5-Bevel tip
Competitors

0 0.5

A significant 23% reduction in average penetration force for needles, considered less pain compared to competitive suitable for under-18s

HIV/AIDS Screening system

PLPT sol™ ICA

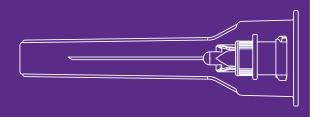
New Solution for Immune Cell Analysis System

- •Easy to use
- Reduce time
- Cost effectiveness
- High accuracy





PLPT Y-Cap



Product Features

All-in-one LDV syringes (Pre-assembled syringe plus needle in a single pack) can be used immediately when removing blister paper (wrapping paper) without an assembly process.

- + Produced in accordance with the Ministry of Food and Drug Safety and ISO standards.
- + FDA 510(K) Cleared · **C €** ₂₇₆₄ · **(S)** · ISO 13485
- + E.O Gas Sterilization
- + Expiration date: 3 years
- + This product is a "disposable medical device".

 Please read and use "Precautions for use"
- + and "How to use" carefully.

 In-House Production of All Parts

$\textbf{Product Detail} \quad \textbf{This product is a medical device that complies with the Ministry of Food and Drug Safety's medical.}$

1 Y-Cap

The Y-type cap is a wide Y-shape cover that minimizes needle-stick injury and allows safe disposal.

3 Needle

Poonglim's needle is a special needle, has a wide inner diameter with mirror tube technology, the inner and outer surfaces of the needle are smoothly processed to facilitate the flow of medicine and <u>minimize</u> pain during subcutaneous penetration.

- Gauge: 25G, 26G

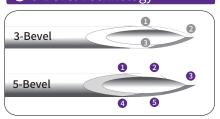
 26G is a 5-Bevel technology <u>suitable for</u>
 <u>under-18s</u> by increasing subcutaneous
 penetration and minimizing pain.
- Gauges can be manufactured upon request of the customer (18~34G)

4 Specification

Type:Luer-Lock, Needle: $25G \times 25mm(1")$, Luer-Cone $26G \times 16mm(5\%")$



2 5-Bevel Technology



The Poonglim's needle uses a special tip design, which features a 5-bevel needle tip that is able to penetrate the skin more easily due to its flatter, thinner surface with the force needed to penetrate the skin reduced, for a smoother and **more comfortable injection experience and less painful,** compared to 3-bevel needles.

PLPT 5-Bevel tip Competitors 0 0.5 1

Laboratory testing demonstrated a significant 23% reduction in average penetration force for the 5-bevel vs 3-bevel needles, increased patient preferences, and considered less pain.

PLPT LDV Option / Can be customized according to order









PLPT Syringe Instruction

LDV Luer-Lock Syringe Instructions for Safety Gaurd



Attach the needle to the syringe by pushing the needle hub clockwise into the end of the Luer-Lock of the syringe, while holding the transparent protective cap of the needle.



Attach the drug into the syringe to be used according to the doctor's prescription.

Adjustable function: Rotate the guard clockwise if required.



Wipe the injection area with an alcohol swab, remove the needle's transparent protective cap, pierce the needle into the injection area, and perform the



After injection, wipe the injection area with alcohol swab.

LDV Luer-Cone Syringe Instructions for Safety Gaurd



Hold the bottom of the Y-Cap and equip it to fit into the syringe.



Attach the drug into the syringe to be used according to the doctor's prescription.

Adjustable function: Rotate the guard clockwise if required.



Wipe the injection area with an alcohol swab, remove the needle's transparent protective cap, pierce the needle into the injection area, and perform the injection



After injection, wipe the injection area with alcohol swab.

PLPT LDV Instructions for Safety Gaurd



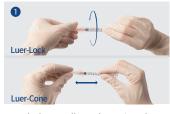


Push the safety guard on the needle with your finger to activate the safety guard.



Or, press the top of the safety guard against a hard surface. In both cases, you may hear a clicking sound.

Y-Cap Syringe Instructions for Use & Disposal



Attach the needle to the syringe by pushing the needle hub clockwise into the end of the Luer-Lock of the syringe, while holding the Y-cap of the needle. (Luer-Lock)

Hold the bottom of the Y-Cap and equip it to fit into the syringe. (Luer-Cone)



Disinfect the injection area with an alcohol swab before injection, remove the Y-cap, and inject it into the skin.

After injection, wipe the injection area with alcohol swab.



After closing the Y-Cap, turn slightly to separate the syringe and needle.

Syringes and needles are put in a dedicated medical waste container and discharged.



Syringes and needles are put in a dedicated medical waste container and discharged.

Packing Detail



It was securely packaged by placing a pad on the pallet's bottom, attaching brackets to all four corners, and carefully wrapping it.

Product I	Product Information		1 inner box	1 out box +1 Weight of out box	1 pallet(5단*4box) +1 Weight of pallet	
	Quantity	pcs	100	1,200	24,000	
PLPT LDV sterile syringes	Weight(Appox.)	KG	0.57 7.53		163.60	
	Size	-	21.5*13.5*14(cm)	67.5*28.5*30.5(cm)	1*1*1.67(m)	
+	1m*1m*0.12ı Photo of one stack		PLPT LDV Steril	Plat LDV See Syringe Plot LDV See Syringe	PLOT LDV Senie Sampe PLOT LDV Senie Sampe PLOT LDV Senie Sampe	
PLPT EZ-Injec	Quantity	pcs	100	1,800	36,000	
LDV sterile needle	Weight(Appox.)	KG	0.44	8.78	188.25	
sterile needle	Size	-	21.5*10*14(cm)	67.5*32.5*30.5(cm)	1*1*1.67(m)	
	llet 1m*1m*0.12i Photo of one stack (SERVICE STORY NEEDLE STORY NEED	For EZ-injec LDV To an inject LDV	Plant Comment of Plant	
	Quantity	pcs	100	1,200	24,000	
PLPT LC syringes	Weight(Appox.)	KG	0.50	6.70	140.30	
	Size	-	21.5*13.5*14(cm)	67.5*28.5*30.5(cm)	1*1*1.67(m)	
Pallet 1m*1m*0.12m +Photo of one stack of box			PLOT LDV (C Sym	PLOT LDV NALDY LC Groups	PLOT LDV Ms. DP1C Select MARKET MARK	

The molar values provided above are for reference purposes only and may vary from the actual values.