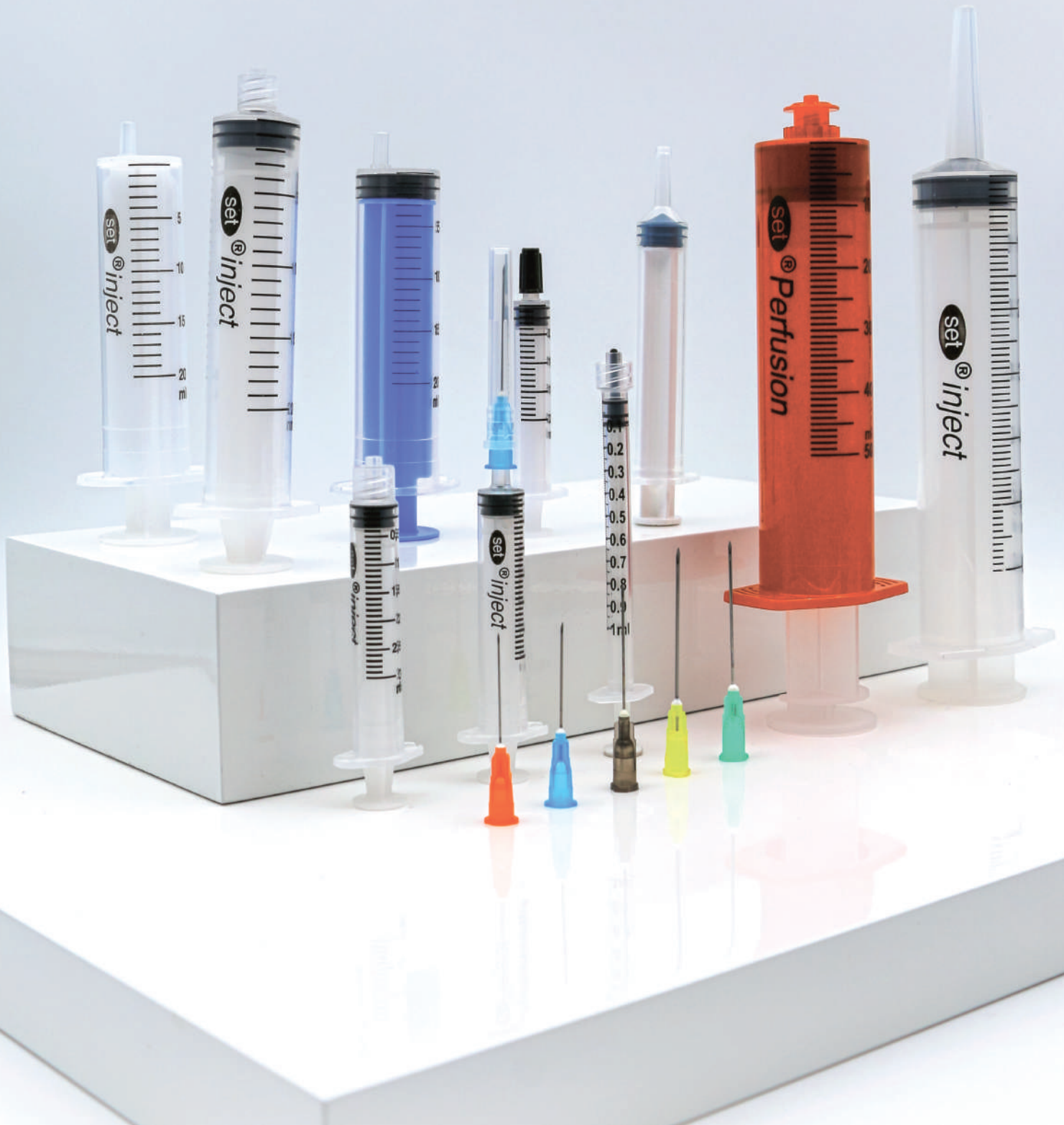






set[®] syringes & needles

Syringes and needles have shaped Set Medikal's identity since 1977.

Over the years, we have refined every step of molding, assembly, and quality control to build a portfolio that serves millions of procedures each day.

This category brings together our broadest and most established product family, covering standard devices as well as solutions tailored for specialty use.



We care.

Syringes Instruction

What Is a Syringe?

Where and Why It Is Used ●

A syringe is used to ensure the accurate, safe, and controlled administration of liquid medications and medical solutions. Its ability to provide precise dosing, hygienic use, and ease of handling makes it an essential tool across various medical and technical fields.

It is widely used in hospitals and clinics for injections, medication delivery, and fluid aspiration; in laboratories for sample collection and liquid transfer; in veterinary practices for animal treatments; and in home care and personal healthcare applications to ensure safe and controlled use. Syringes help minimize application errors by enabling accurate dose control and smooth fluid delivery.



● How It Works

A syringe operates based on the forward and backward movement of the plunger. When the plunger is pulled back, a vacuum is created inside the barrel, allowing the liquid to be drawn in. When the plunger is pushed forward, the liquid is delivered in a controlled manner through the syringe tip. This mechanism enables accurate measurement and precise administration of fluids.

Syringe Anatomy

3-Part Syringes

Barrel

The syringe barrel is the section that holds the fluid used for various purposes. Its transparent design allows for clear visibility of the fluid level and any air bubbles present.

Plunger

This syringe component is used to draw in and dispense the fluid.

Gasket

An elastic component located at the tip of the syringe plunger that ensures sealing. It prevents leakage and helps provide smooth and controlled fluid movement.

Connector Tip



Stop-Point

Volume Markings

Push-Button

The push-button is designed with ridges that improve grip, helping to prevent the user's thumb from slipping while pressing the plunger during injection.

2-Part Syringes

set[®] syringes & needles

2 Part Syringes

Luer Slip



We care.



Set® Inject 2-Part Luer Slip

Features

- Two-part construction (barrel + plunger)
- Silicone-free lubricant for clean and consistent plunger movement
- Clear and easy-to-read graduation marks for accurate dosing
- Transparent or UV-resistant barrel options
- Designed for general-purpose injection and aspiration
- Luer Slip tip for quick push-fit connection
- Not manufactured with silicone oil, PVC, latex, DEHP and BPA

Packaging

- Sterile single blister pack, with or without needle options
- Optional sterile tray packaging
- Non-sterile bulk or mini-bulk options
- EO-sterilized

Customization

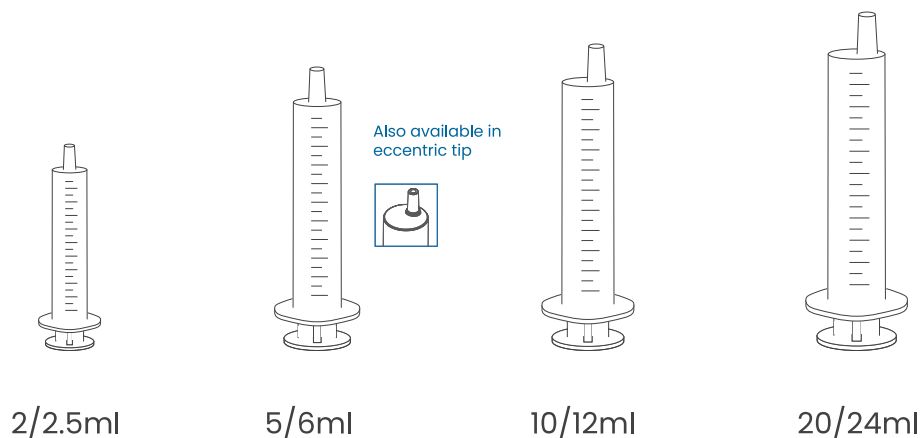
- Plunger color customization
- Transparent or UV-resistant barrel
- Customizable scale options



Conformance & Compliance

- Manufactured according to ISO 7886-1 and ISO 80369-7.
- Certified by EU 2017/745 (MDR)
- FDA 510(k) Cleared
- EO sterilized
- Shelf life: 5 years

Available Sizes and Types



Product Table

Volume	Concentric Tip	Eccentric Tip	Graduation	Graduated Capacity	Units Box	Units Carton
2/2.5 ml	•		0.1 ml	2.5 ml	100/350 pcs	2400/2800 pcs
5/6 ml	•	•	0.2 ml	6.0 ml	100/250 pcs	1600/2000 pcs
10/12 ml		•	0.5 ml	12.0 ml	100/150 pcs	1200/1200 pcs
20/24 ml		•	1.0 ml	24.0 ml	100 pcs	600 pcs

*Reference numbers are subject to change based on packaging, labeling, regulatory, or regional distribution updates.

set[®] syringes & needles

2 Part Syringes

Luer Lock



We care.



Set® Inject 2-Part Luer Lock

Features

- Two-part construction (barrel + plunger)
- Silicone-free lubricant for clean and consistent plunger movement
- Clear and easy-to-read graduation marks for accurate dosing
- Transparent or UV-resistant barrel options
- Designed for general-purpose injection and aspiration
- Luer Lock threaded connection for secure and stable attachment
- Not manufactured with silicone oil, PVC, latex, DEHP and BPA

Packaging

- Sterile single blister pack, with or without needle options
- Optional sterile tray packaging
- Non-sterile bulk or mini-bulk options
- EO-sterilized

Customization

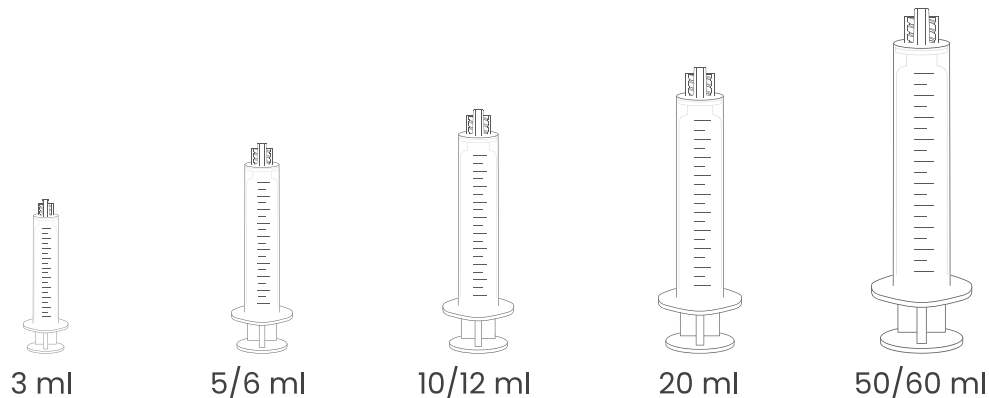
- Plunger color customization
- Transparent or UV-resistant barrel
- Customizable scale options



Conformance & Compliance

- Manufactured according to ISO 7886-1, ISO 7886-2 and ISO 80369-7.
- EO sterilized
- Shelf life: 5 years

Available Sizes and Types



Product Table

Volume	Graduation	Graduated Capacity	Units / Box	Units / Carton
3 ml	0.1 ml	3.0 ml	100/350 pcs	2400/2800 pcs
5/6 ml	0.2 ml	6.0 ml	100/250 pcs	1600/2000 pcs
10/12 ml	0.5 ml	12.0 ml	100/150 pcs	1200/1200 pcs
20/24 ml	1.0 ml	20.0 ml	100 pcs	600 pcs
50/60 ml	1.0 ml	60.0 ml	60 pcs	240 pcs

* Reference numbers are subject to change based on packaging, labeling, regulatory, or regional distribution updates.

set[®] syringes & needles

3 Part Syringes

Luer Slip



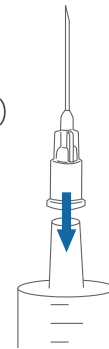
We care.



Set® Inject 3-Part Luer Slip

Features

- Three-part construction (barrel + plunger + latex-free isoprene gasket)
- Silicone-sprayed barrel for smooth and controlled movement
- High sealing performance due to precision-fitted gasket
- Clear, precise graduation marks for accurate dosing
- Transparent or UV-resistant barrel options
- Wide capacity range available: 1 ml – 50 ml
- Luer Slip tip for quick push-fit connection
- Not manufactured with PVC, latex, DEHP and BPA

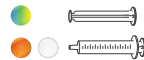


Packaging

- Sterile single blister pack, with or without needle options
- Optional sterile tray packaging
- Non-sterile bulk or mini-bulk options
- EO-sterilized

Customization

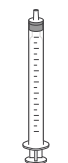
- Plunger color customization
- Transparent or UV-resistant barrel
- Customizable scale options



Conformance & Compliance

- Manufactured according to ISO 7886-1 and ISO 80369-7.
- Certified by EU 2017/745 (MDR)
- FDA 510(k) Cleared
- EO sterilized
- Shelf life: 5 years

Available Sizes and Types



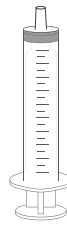
1 ml



2/2,5 ml



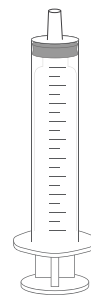
3 ml



5 ml



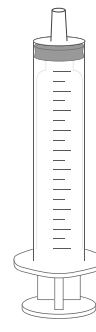
Eccentric Option



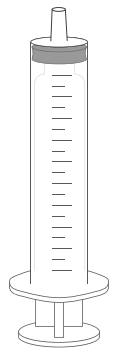
10/12 ml



Eccentric Option



20 ml



50 ml

Product Table

Volume	Concentric Tip	Eccentric Tip	Graduation	Graduated Capacity	Units Box	Units Carton
1 ml	•		0.1 ml	1 ml	100/500 pcs	3200/3000 pcs
2/2,5 ml	•		0.1 ml	2.5 ml	100/350 pcs	2400/2800 pcs
3 ml	•		0.1 ml	3.0 ml	100/350 pcs	2400/2800 pcs
5 ml	•	•	0.2 ml	5.0 ml	100/250 pcs	1600/2000 pcs
10/12 ml	•	•	0.5 ml	12.0 ml	100/150 pcs	1200/1200 pcs
20 ml		•	1.0 ml	20.0 ml	100 pcs	600 pcs
50 ml		•	1.0 ml	60.0 ml	60 pcs	240 pcs

*Reference numbers are subject to change based on packaging, labeling, regulatory, or regional distribution updates.

set[®] syringes & needles

3 Part **Syringes**

Luer Lock



We care.



Set® Inject 3 Part Luer Lock

Features

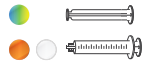
- Three-part construction (barrel + plunger + latex-free isoprene gasket)
- Silicone-sprayed barrel for smooth and controlled movement
- High sealing performance due to precision-fitted gasket
- Clear, precise graduation marks for accurate dosing
- Transparent or UV-resistant barrel options
- Wide capacity range available: 1 ml – 50 ml
- Luer Lock threaded connection for secure and stable attachment
- Not manufactured with PVC, latex, DEHP and BPA

Packaging

- Sterile single blister pack, with or without needle options
- Optional sterile tray packaging
- Non-sterile bulk or mini-bulk options
- EO-sterilized

Customization

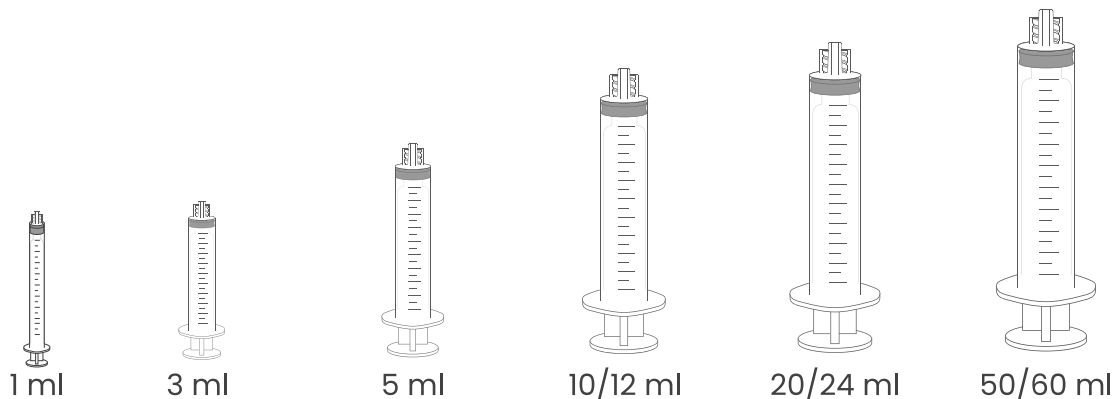
- Plunger color customization
- Transparent or UV-resistant barrel
- Customizable scale options



Conformance & Compliance

- Manufactured according to ISO 7886-1, ISO 7886-2 and ISO 80369-7.
- Certified by EU 2017/745 (MDR)
- FDA 510(k) Cleared
- EO sterilized
- Shelf life: 5 years

Available Sizes and Types



Product Table

Volume	Graduation	Graduated Capacity	Units / Box	Units / Carton
1 ml	0.1 ml	1 ml	100/500 pcs	3200/3000 pcs
3 ml	0.1 ml	3.0 ml	100/350 pcs	2400/2800 pcs
5 ml	0.2 ml	5.0 ml	100/250 pcs	1600/2000 pcs
10/12 ml	0.5 ml	12.0 ml	100/150 pcs	1200/1200 pcs
20 ml	1.0 ml	20.0 ml	100 pcs	600 pcs
50/60 ml	1.0 ml	60.0 ml	60 pcs	240 pcs

*Reference numbers are subject to change based on packaging, labeling, regulatory, or regional distribution updates.

set[®] syringes & needles

Specialty Applications



We care.

Set® Flush

Set® Flush is a ready-to-use 0.9% sodium chloride prefilled syringe designed for routine flushing of compatible intravenous tubing and indwelling vascular access devices.

Features

- Ready-to-use 10 mL flush syringe prefilled with 0.9% sodium chloride solution for flushing IV lines and vascular access devices.
- Single-use, sterile fluid path to support good infection prevention practice and reduce the risk of contamination associated with manual preparation
- 10 mL barrel diameter helps keep flushing pressure low and is aligned with common recommendations for flushing vascular access devices
- Clear, easy-to-read scale to support controlled flushing and visual confirmation of the solution
- Luer lock tip for secure connection to standard IV access devices.
- Free from added preservatives and designed for single patient use only
- Not made with natural rubber latex, DEHP, PVC or BPA
- Sterilized with gamma



Packaging

- Individually packed to support aseptic handling at the point of use
- Tamper-evident wrap and protective cap to help maintain package integrity until use

Conformance & Compliance

- Manufactured according to ISO 7886-1
- ISO 80369-7
- ISO 11040-6



Set® Perfusion

Features

- Optimized for use with power-driven syringe pumps
- Three-part design with latex-free isoprene gasket
- Excellent sealing with no air leakage at gasket or tip
- Smooth, controlled plunger movement with silicone lubricant
- Polypropylene barrel and plunger for high chemical resistance
- Clear 1 ml graduation for accurate infusion control
- Luer Lock tip with 6% taper and 1.2 mm connector
- Transparent, UV-resistant, or opaque barrel options
- Large-diameter barrel for improved fluid-level tracking

Packaging

- Sterile single blister pack

Customization

- Transparent, UV-resistant amber, or opaque barrel options    
- Extended graduation feature

Conformance & Compliance

- Manufactured according to ISO 7886-1, ISO 7886-2 and ISO 80369-7.
- FDA 510(k) Cleared
- Certified by EU 2017/745 (MDR)
- EO sterilized
- Shelf life: 5 years



Available Types



Most Preferred Needles

-  14G x 1 1/4" 2 x 30 mm
-  15G x 1" 1.8 x 25 mm
-  16G x 1" 1.6 x 25 mm
-  18G x 1 1/2" 1.2 x 38 mm

Product Table

Volume	Barrel Color	Graduation	Graduated Capacity	Units Box	Units Carton
50ml		1.0 ml	50.0 ml	60 pcs	240 pcs
50ml		1.0 ml	50.0 ml	60 pcs	240 pcs
50ml		1.0 ml	50.0 ml	60 pcs	240 pcs

*Reference numbers are subject to change based on packaging, labeling, regulatory, regional distribution updates, or requested customization.



Set® Tuberculin

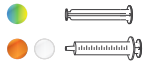
Features

- Medical-grade polypropylene barrel and plunger
- Latex-free isoprene rubber gasket ensuring excellent sealing
- Smooth and consistent plunger movement with silicone lubricant
- Low dead space (<0.1 ml) minimizing medication waste
- Clear graduation (0.01–0.02 ml) for precise low-dose injections
- Fixed needle or Luer Slip (6% taper) configuration depending on model
- Accurate and reliable delivery for tuberculin and allergy testing

Packaging

- Sterile single blister pack

Customization

- Plunger color options 
- Transparent or UV-resistant amber barrel

Conformance & Compliance

- ISO 6009-ISO 80369-7-ISO 9626
- EU 2017/745 (MDR)
- EO sterilized
- Shelf life: 5 years



Product Table

Volume	Connector	Graduation	Graduated Capacity	Needle	Units Box	Units Carton
1 ml	Luer Slip	0.01 ml	1.0 ml		100/500 pcs	3200/3000 pcs
1 ml	Luer Slip	0.01 ml	1.0 ml	26G-29G-30G-31G	100/500 pcs	3200/3000 pcs

*Reference numbers are subject to change based on packaging, labeling, regulatory, regional distribution updates, or requested customization.

Set® Gel Syringe

Features

- Made of medical-grade polypropylene
- Latex-free bromobutyl rubber stopper ensuring excellent sealing
- Smooth and consistent plunger movement with silicone lubricant
- Clear and readable graduation (0.2 ml / 0.5 ml)
- Low dead space minimizing residue (<0.075 ml / <0.10 ml)
- Designed for applying and dispensing gel-based lubricants
- Catheter-tip design for controlled gel delivery
- Transparent barrel for easy visibility

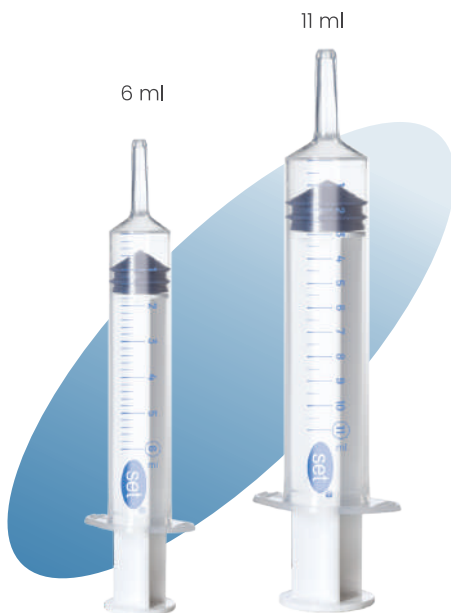
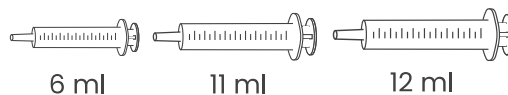
Packaging

- Double nylon pouch
- Outer dopel carton (non-sterile packaging)

Conformance & Compliance

- EU 2017/745 (MDR)
- Shelf life: 5 years

Available Sizes



Product Table

Volume	Connector	Graduation	Graduated Capacity	Units Carton
6 ml	Luer	0.2 ml	6 ml	2200 pcs
11 ml	Luer	0.5 ml	11 ml	1400 pcs
12 ml	Luer	0.5 ml	12 ml	1400 pcs

*Reference numbers are subject to change based on packaging, labeling, regulatory, regional distribution updates, or requested customization.



Set® Blood Gas Syringe

Features

- Pre-heparinized design (helps prevent coagulation)
- Three-part design with latex-free
- Minimizes air bubble formation
- Secure sealing system
- Clear and precise graduation markings
- Ergonomic design for easy handling
- Individually blister packed
- Preloaded with approximately 80 IU dry, electrolyte-balanced lithium heparin for anticoagulation

Packaging

- Sterile single blister pack
- With or without needle options

Customization

- Color options for plunger  



Syringe with
heparin paper

or



Syringe with
sprayed heparin

Conformance & Compliance

- Manufactured according to ISO 7886-1 and ISO 80369-7.
- Certified by EU 2017/745 (MDR)
- EO sterilized
- Shelf life: 2 years

Product Table

Volume	With Needle	Graduation	Graduated Capacity	Units Box	Units Carton
2 ml		0.01 ml	2.0 ml	350 pcs	2800 pcs
2 ml	22Gx1 1/4	0.01 ml	2.0 ml	350 pcs	2800 pcs
2 ml		0.01 ml	2.0 ml	100 pcs	2000 pcs
2 ml	22Gx1 1/4	0.01 ml	2.0 ml	100 pcs	2000 pcs

*Reference numbers are subject to change based on packaging, labeling, regulatory, regional distribution updates, or requested customization.

Features

- Barrel made of medical-grade polypropylene
- Plunger made of medical-grade polypropylene
- Latex-free isoprene rubber gasket ensuring excellent sealing
- Smooth and consistent plunger movement with silicone lubricant
- No air leakage from gasket or tip
- Clear and legible 1 ml graduation
- Low dead space (<0.20 ml)
- Catheter-tip connector for controlled fluid administration
- Transparent barrel for easy visibility

Packaging

- Sterile single blister pack

Customization

- Plunger color options  

Conformance & Compliance

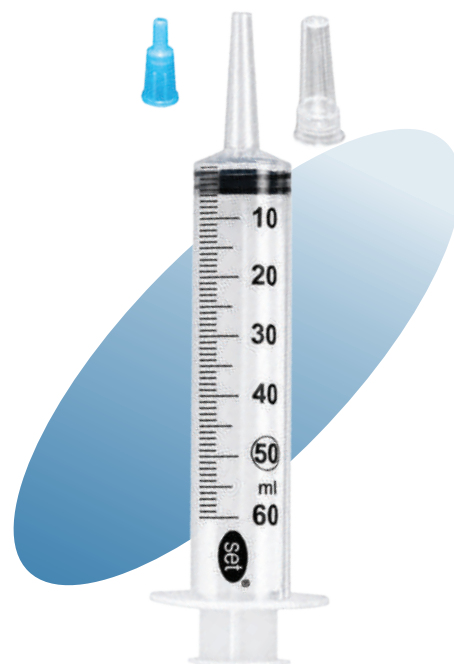
- Manufactured according to ISO 7886-1
- Certified by EU 2017/745 (MDR)
- FDA 510(k) Cleared
- EO sterilized
- Shelf life: 5 years

Product Table

Volume	Connector	Graduation	Graduated Capacity	Units Box	Units Carton
50 ml	Catheter Tip	1 ml	60 ml	60 pcs	240 pcs
50 ml	• Catheter Tip	1 ml	60 ml	60 pcs	240 pcs

*Reference numbers are subject to change based on packaging, labeling, regulatory, regional distribution updates, or requested customization.

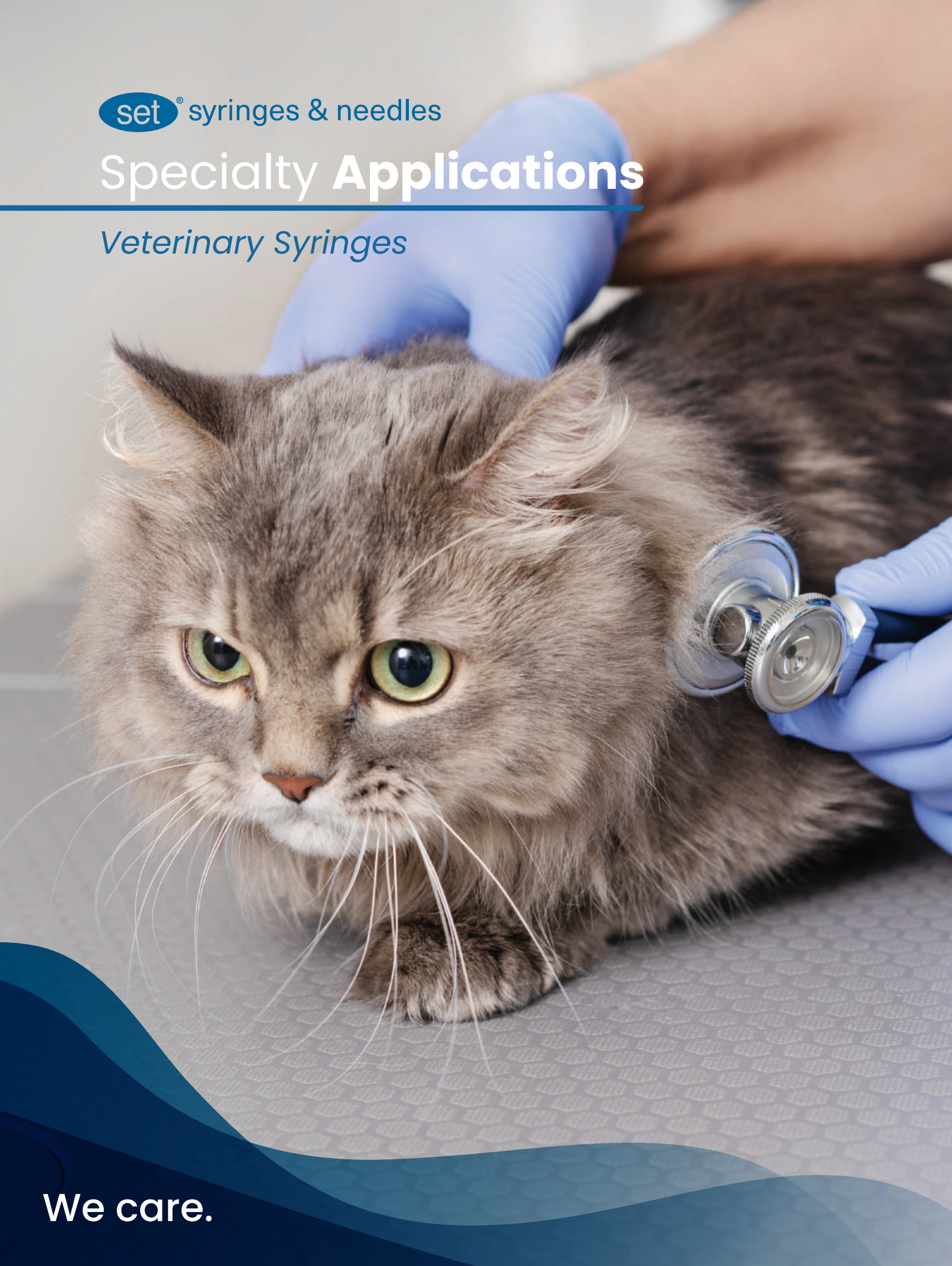
•Version with cap and adapter



set[®] syringes & needles

Specialty **Applications**

Veterinary Syringes



We care.



Set® Veterinary Syringes

Features

- Barrel made of medical-grade polypropylene
- Plunger made of medical-grade polyethylene/polypropylene
- Free from PVC, Latex, DEHP and BPA
- Medical-grade rubber gasket
- Luer Slip and Luer Lock connector
- Easy and comfortable plunger movement
- Black graduation for easy reading and accurate dosing
- Safe plunger backstop preventing the easy exit of the plunger from the barrel
- Sterile single packaging

Packaging

- With mounted or bi-packed needle

Customization

- Plunger color options  

Conformance & Compliance

- Manufactured according to ISO 7886-1 and ISO 80369-7



Product Table

Volume	2 Part Syringe	3 Part Syringe	Units Box	Units Carton
1 ml		•	100/500 pcs	3200/3000 pcs
2 ml	•	•	100/350 pcs	2400/2800 pcs
3 ml		•	100/350 pcs	2400/2800 pcs
5 ml	•	•	100/250 pcs	1600/2000 pcs
10 ml	•	•	100/150 pcs	1000/1200 pcs
20 ml	•	•	100 pcs	600 pcs
50 ml		•	60 pcs	240 pcs

*Reference numbers are subject to change based on packaging, labeling, regulatory, regional distribution updates, or requested customization.

set[®] syringes & needles

Specialty **Applications**

Dental



We care.



Set® Dental Syringe

Features

- Barrel made of medical-grade polypropylene.
- Plunger made of medical-grade polyethylene.
- Free from PVC, Latex, DEHP and BPA.
- Free from silicone oil (for 2-piece syringes).
- Medical-grade rubber gasket.
- Luer Slip and Luer Lock connector.
- Easy and comfortable plunger movement.
- Black graduation for easy reading and accurate dosing.
- Color options for plunger for precise dosage.
- Sterile single packaging with and without detached needle options.

Packaging

- Single packaging or customized tray options.
- Sterile or non-sterile.
- With or without needle options

Customization

- Color options for plunger 
- Clear / transparent or UV-resistant amber barrel 



Conformance & Compliance

- Manufactured according to ISO 7886-1 and ISO 80369-7
- Certified by EU 2017/745 (MDR)
- FDA 510(k) Cleared

Dental Needle Options



27G x 1 1/2"
0.4 x 40 mm



27G x 2"
0.4 x 50 mm

Product Table

Volume	Connector	Gauge x Length (inch)	Lenght	Units Box	Units Carton
2 ml	Luer Slip	27G x 1 1/2"	0.4 x 40mm	300 pcs	2400 pcs
2 ml	Luer Slip	27G x 2"	0.4 x 50mm	300 pcs	2400 pcs
2 ml	Luer Slip	27G x 1 1/2"	0.4 x 40mm	300 pcs	2400 pcs
2 ml	Luer Slip	27G x 2"	0.4 x 50mm	300 pcs	2400 pcs
2 ml	Luer Lock	27G x 1 1/2"	0.4 x 40mm	300 pcs	2400 pcs
2 ml	Luer Lock	27G x 2"	0.4 x 50mm	300 pcs	2400 pcs

*Reference numbers are subject to change based on packaging, labeling, regulatory, regional distribution updates, or requested customization.

set[®] syringes & needles

Specialty Applications

Pharmacy Tray



We care.



Set® inject Pharmacy Tray

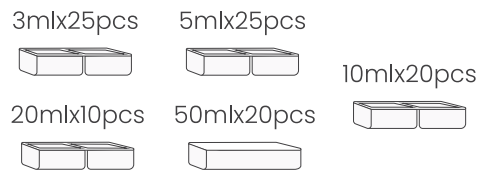
Features

- Barrel made of medical-grade polypropylene.
- Plunger made of medical-grade polyethylene/polypropylene.
- Free from PVC, Latex, DEHP and BPA.
- Easy and comfortable plunger movement.
- Black graduation for easy reading and accurate dosing.
- Color options for plunger for precise dosage.

Customization

- Color options for plunger 
- Clear / transparent or UV-resistant amber barrel 

Tray Options



Conformance & Compliance

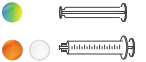
- Manufactured according to ISO 7886-1 and ISO 80369-7

Set® inject Pharmacy Tray

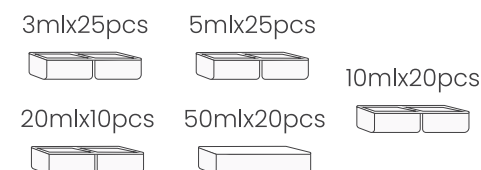
Features

- Barrel made of medical-grade polypropylene
- Plunger made of medical-grade polyethylene/polypropylene.
- Free from PVC, Latex, DEHP and BPA
- Medical-grade rubber gasket
- Luer lock connector tip
- Easy and comfortable plunger movement
- Black graduation for easy reading and accurate dosing
- Color options for plunger for precise dosage

Customization

- Color options for plunger 
- Clear / transparent or UV-resistant amber barrel 

Tray Options



Conformance & Compliance

- Manufactured according to ISO 7886-1 and ISO 80369-7



set[®] syringes & needles

Needles



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Set® Lance

Standard Hypodermic Needle

Features

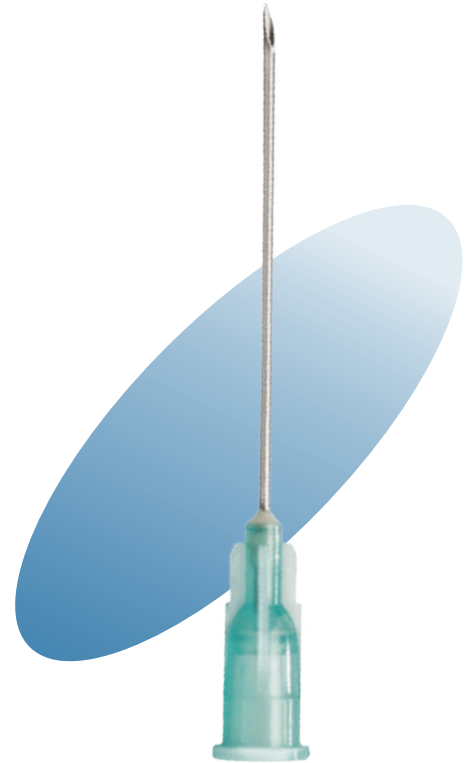
- Made of stainless steel (SS304) hypodermic needle
- Atraumatic, triple-bevel needle tip for smooth penetration
- Easy and controlled insertion thanks to silicone lubrication
- No air leakage between needle, hub, or protective components
- Available in multiple gauges and lengths (14G–30G)
- Transparent needle cap and hub in standardized color codes
- Designed for injection, aspiration, and preparation of medical fluids
- Single-use, sterile product ensuring patient and user safety

Packaging Options

- Units per box/case 900–9000pcs
- Units per box/case 100–8000pcs

Conformance & Compliance

- EU 2017/745 (MDR)
- ISO 6009-ISO 7864-ISO 80369-7-ISO 9626
- FDA 510(k) Cleared
- EO sterilization
- Shelf life: 5 years



Set® Lance

Safety Hypodermic Needle

Features

- Made of stainless steel (SS304) hypodermic needle
- Atraumatic, triple-bevel needle tip for smooth penetration
- Easy and controlled insertion thanks to silicone lubrication
- No air leakage between needle, hub, or protective components
- Available in multiple gauges and lengths (14G–30G)
- Transparent needle cap, holder, and safety shield in various color options
- Single-use, sterile product designed for safe injection, aspiration, and fluid preparation
- Secure safety cap mechanism to reduce needlestick injury risk

Packaging Options

- Units per box/case 350–3500pcs
- Units per box/case 100–2500pcs

Conformance & Compliance

- EU 2017/745 (MDR)
- ISO 6009-ISO 7864-ISO 80369-7-ISO 9626
- EO sterilization
- Shelf life: 5 years





Set® Lance

Standard Hypodermic Needle – Safety Hypodermic Needle

Available Sizes

Gauge	Length (inches)	Length (mm)	Standard Needle	Safety Needle
16G	1"	25mm	•	
18G	1"	25mm	•	•
	1 1/2"	38mm	•	•
19G	1"	25mm	•	•
	1 1/2"	38mm	•	•
20G	1"	25mm	•	•
	1 1/2"	38mm	•	•
21G	5/8"	16mm	•	
	1"	25mm	•	•
	1 1/2"	38mm	•	•
22G	1"	25mm	•	•
	3/4"	19mm	•	•
	1 1/4"	32mm	•	•
	1 1/2"	38mm	•	•
23G	1"	25mm	•	•
	1 1/4"	32mm	•	•
	1 1/2"	38mm	•	
24G	1"	25mm	•	•
	1/4"	32mm	•	•
25G	1/2"	13mm	•	
	5/8"	16mm	•	•
	1"	25mm	•	•
26G	1/2"	13mm	•	
	1"	25mm	•	•
27G	1/2"	13mm	•	•
	2"	50mm	•	

*Regular wall for 24G and above, thin wall for below 24G