



Animal health products

# Automatic self-refilling syringes

## **The Socorex® classic 167 / 187 / 287 syringes**

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- **Syringe comparison**
- **Areas of application**
- **Vial and tube feeding models**
- **Fixed volume and two-ring models**
- **Accessories and parts**



65 years  
Edition 2024



## Automatic self-refilling syringes

**The Socorex self-refilling syringes with spring-loaded plunger and three-way valve system are designed for serial precision injections. Simple concept, perfect balance and ergonomic design provide for ease of use, operator comfort and fatigue-free fieldwork. An exceptional price-to-quality ratio makes the Socorex syringes even more your automatic choice.**

- Superior, long-lasting quality
- Effortless, high throughput vaccination
- From small to large animals
- Suitable for aqueous, oily, viscous or heavy iron solutions as well as a variety of suspensions
- Operate under any climatic conditions
- Economical parts, all interchangeable

### Superior material selection for ultimate durability

Part	Material
Feed tubing	Medical grade silicone
Barrel	Soda-lime glass
Plunger	Stainless steel
Barrel washer	FPM*
Valve washers	PTFE
Valve springs and balls	Stainless steel
Syringe casing	Nickel-chrome plated brass
Nozzle valve, intake valve	Nickel-chrome plated brass
Sinker and feed cannula	Nickel-chrome plated brass

\*FPM used in Socorex products is FDA compliant

### Plunger tightness without O-ring

Smooth plunger travel and tightness achieved through high precision stainless steel plunger and grounded glass barrel. No O-ring to mess with or replace.



### Time efficient maintenance

Syringes easy to disassemble / reassemble. Fast access to all elements allows quick and efficient cleaning. Sterilization fully assembled in boiling water or in autoclave at 121 °C / 250 °F.

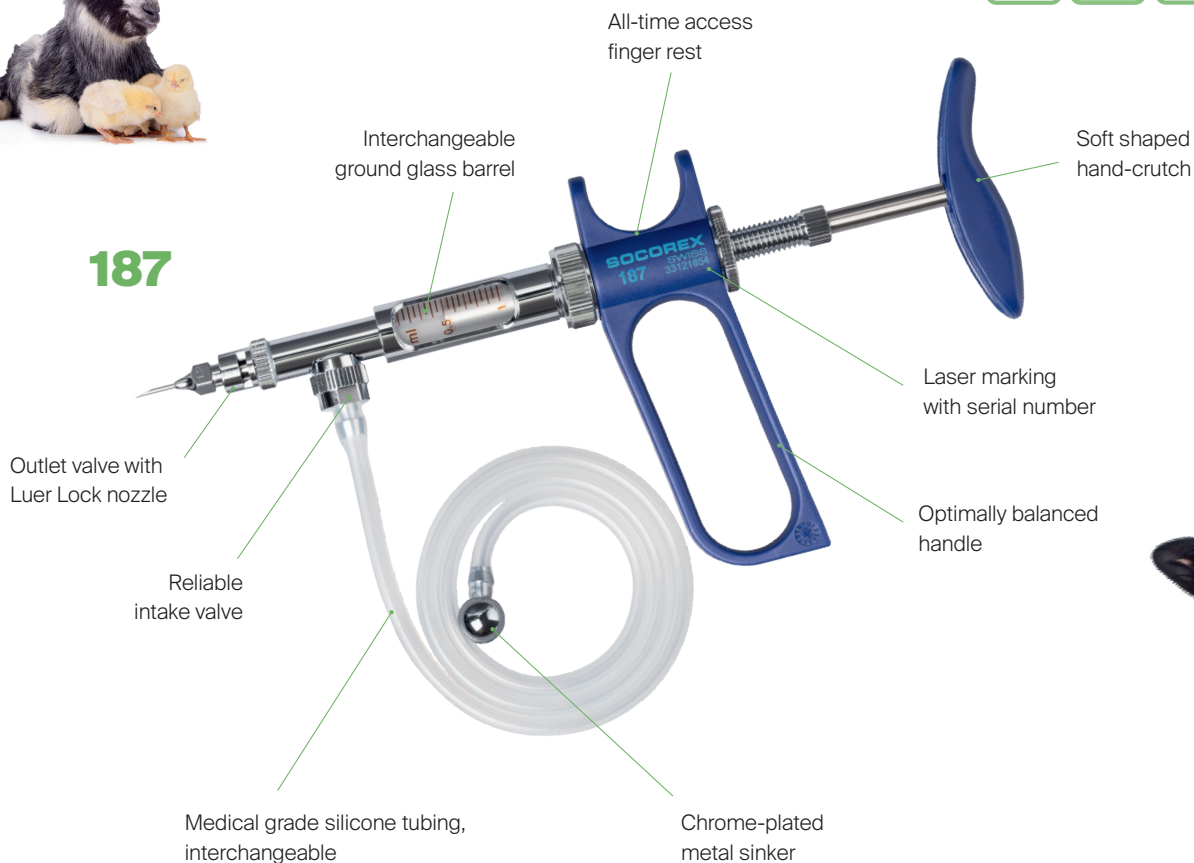
Watch the video on syringe cleaning



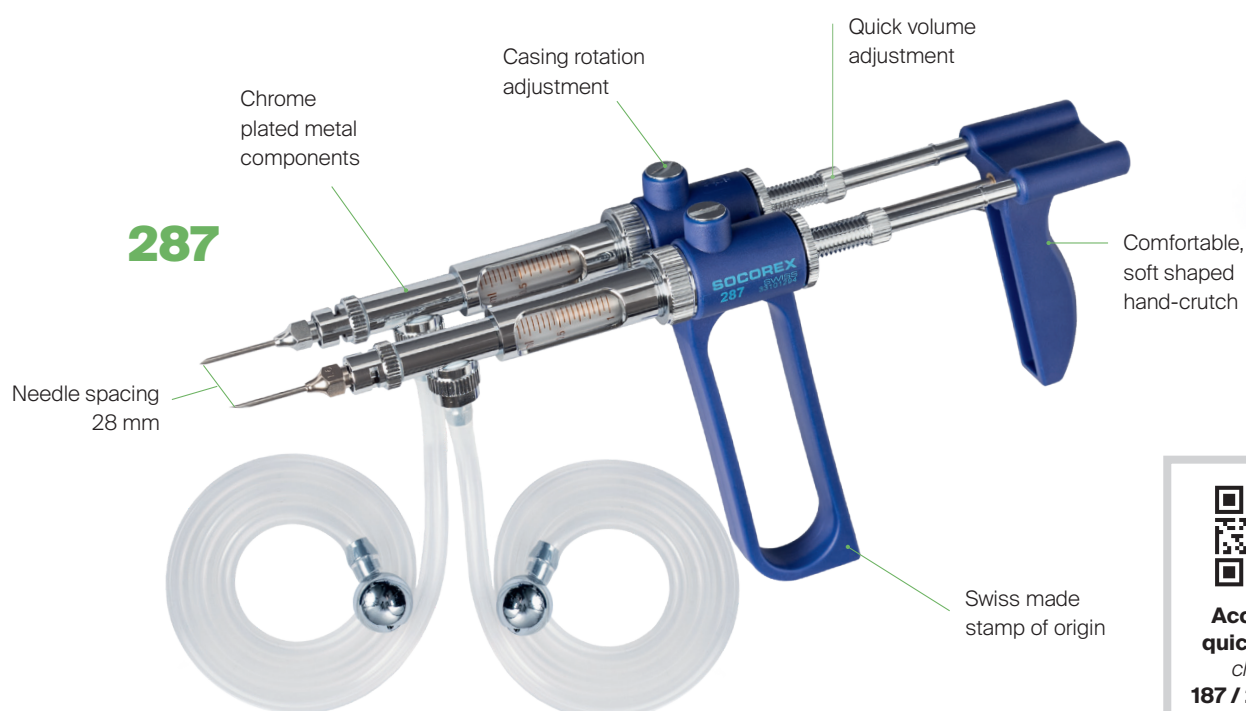
## Instrument features



**187**



**287**



**Access to  
quick guide**  
classic  
187 / 287 / 167

## Syringe comparison

Unmatched  
**Robustness**



*ultra* 1810



*classic* 167/187/287

<b>Syringe handle</b>	PA enriched with glass fibers	
<b>Plunger</b>	Stainless steel	
<b>Plunger tightness</b>	No O-ring (except <i>ultra</i> 1810 ≤ 0.3 mL)	
<b>Nozzle</b>	Metal Luer Lock	
<b>Disassembly</b>	Easy access to all parts for maintenance, no tools needed	
<b>Spare parts</b>	All parts available separately	
<b>Sterilization</b>	Disassembled in boiling water or assembled in autoclave (121 °C / 250 °F)	
<b>Specific accessories</b>	Conversion sets vial and tube feeding, FishGuide™	
	Abacus™ shot counter	Manifold for Twin syringe
<b>Weight*</b>	91 g	155 g
<b>Activation force*</b>	~14 N	~20 N
<b>Handle distance at rest*</b>	55 mm	70 mm
<b>Syringe body</b>	PA enriched with glass fiber	Nickel-chrome plated brass
<b>Syringe barrel</b>	Thick ground glass	Ground glass
<b>Models</b>	Tube and vial feeding	Tube and vial feeding, single or Twin
<b>Volume ranges</b>	0.02 - 0.1 mL / 0.05 - 0.2 mL / 0.05 - 0.3 mL 0.1 - 0.5 mL / 0.1 - 1 mL / 0.3 - 2 mL	0.025 - 0.3 mL / 0.1 - 0.5 mL / 0.1 - 1 mL / 0.3 - 2 mL 0.5 - 5 mL / 1 - 10 mL
<b>Fixed volume</b>	N/A	0.2, 0.3, 0.5 and 1 mL
<b>Valve system</b>	Compact valve cartridges	Metal valve springs and balls

### Criteria for a wise choice













- Almost unbreakable glass barrel
- Best suited for small volume injections
- Ergonomic design of hand piece
- Short, lightweight and extra-smooth activation

- Best seller for more than 30 years
- Larger volumes for a wide range of animals
- Parts fitting several instrument generations

\*Comparison of 1 mL volume syringes



## Area of application per syringe type

		classic 167 / 187 / 287 syringes							
		0,025-0,3 mL	0,1-0,5 mL	0,1-1 mL	0,3-2 mL	0,5-5 mL	1-10 mL		
		ultra 1810 syringe							
		0,02-0,1 mL	0,05-0,2 mL	0,05-0,3 mL	0,1-0,5 mL	0,1-1 mL	0,3-2 mL		
	Fish	●	●	◐	◐	◐	◐		
	Pigeons Chicken		●	◐	◐				
	Rabbits		●	◐	◐				
	Chicks		●	◐	◐				
	Ducks		●	◐	◐	◐			
	Poultry			◐	◐	◐			
	Eggs				◐	◐			
	Turkey Large birds Pigs, piglets				◐	◐	◐		
	Lambs Goats Sheep					◐	◐		
	Young cattle						◐	●	
	Cattle							●	●
	Horse, camel and other big animals								●

The information given in the table is meant as a general guide and may vary. The user is responsible for the proper choice of syringe model per application.

## Vial and tube feeding models

### Vial feeding syringe classic 187

**The 187 vial feeding syringe fits tightly any 20 mm neck diameter vaccine vial.**

Standard supply includes:

- Luer Lock nozzle
- Set of spares for valves (springs, valve balls and washers)
- Vial holder set (vial holder, locking ring, bottle lock, tube connector, feed needle, rubber washer)
- Operating instructions



### Tube feeding syringe classic 187

**The 187 syringe with tube feeding enables aspiration from any bottle carried at the belt, hanging on holder or from a backpack container.**

Standard supply includes:

- Luer Lock nozzle
- Set of spares for valves (springs, valve balls and washers)
- Feed tube set (silicone tubing, sinker, aspiration and vent cannulas)
- Operating instructions



#### Syringe conversion set

The tube feeding model can easily be converted into a vial feeding one with the syringe conversion set. The set is available as an accessory and includes a vial holder, tube connector and a bottle-lock. No tools needed for instant mounting on syringe. Syringe and vial holder are autoclavable fully assembled.



### Performance and ordering information

Volume range (mL)	Division (mL)	Precision (CV%)			Cat. No.		
		Min. vol.	Mid. vol.	Max. vol.	187.1 model with vial holder	187.2 model with feed tube	187.3 combo with vial holder and feed tube
0.025 – 0.3	0.025	< 1.8% *	< 1.2%	< 0.5%	187.1.05003	187.2.05003	
0.1 – 0.5	0.1	< 1.2%	< 0.9%	< 0.4%	187.1.05005	187.2.05005	187.3.05005
0.1 – 1	0.05	< 0.7%	< 0.6%	< 0.4%	187.1.0501	187.2.0501	187.3.0501
0.3 – 2	0.1	< 0.6%	< 0.5%	< 0.4%	187.1.0502	187.2.0502	187.3.0502
0.5 – 5	0.5	< 0.5%	< 0.4%	< 0.2%	187.1.0505	187.2.0505	187.3.0505
1 – 10	1	< 0.5%	< 0.4%	< 0.2%	187.1.0510	187.2.0510	187.3.0510

Tests performed with bidest water, using stainless steel cannula (1.2 x 50 mm), at constant working speed. Performance data may vary based on liquid type, viscosity and needle size.

\*Measured at 0.075 mL.



## Vial and tube feeding Twin models

Combining reliability with efficiency, the Twin syringe is intended for the simultaneous administration of distinct liquids. Each side consists of its own barrel – valve assembly. Volumes are adjustable independently and the needle spacing is 28 mm.

### Vial feeding Twin syringe *classic 287*

Vial feeding Twin syringe enables tight fitting of any 20 mm neck diameter vaccine vials up to 50 mL capacity.

Standard supply includes:

- Luer Lock nozzles
- Operating instructions and a set of spare parts for each valve unit
- Vial holder set (vial holder, locking ring, bottle lock, tube connector, feed needle, rubber washer)



### Tube feeding Twin syringe *classic 287*

Tube feeding Twin syringe enables aspiration from a mix of reservoirs: bottles carried at the belt, hanging on holder or a backpack container.

Standard supply includes:

- Luer Lock nozzles
- Operating instructions and a set of spare parts for each valve unit
- Feed tube set (silicone tubing, sinker, aspiration and vent cannulas)



#### Single needle manifold

This accessory allows simultaneous injection of two different liquids through the same needle, for instance oil-based and water-based products that would otherwise not mix. Useful to limit skin punctures and animal injuries. It is mounted effortlessly on a twin self-refilling syringe without the help of any additional tools. Made of stainless steel and autoclavable, it is compatible with any Socorex Twin *classic 287* syringe.



Cat. No 1.287.685

### Performance and ordering information

Volume range (mL)	Division (mL)	Precision (CV%)			Cat. No.	
		Min. vol.	Mid. vol.	Max. vol.	287.1 model with vial holder	287.2 model with feed tube
0.025 – 0.3	0.025	< 1.8%*	< 1.2%	< 0.5%	287.1.05003	287.2.05003
0.1 – 0.5	0.1	< 1.2%	< 0.9%	< 0.4%	287.1.05005	287.2.05005
0.1 – 1	0.05	< 0.7%	< 0.6%	< 0.4%	287.1.0501	287.2.0501
0.3 – 2	0.1	< 0.6%	< 0.5%	< 0.4%	287.1.0502	287.2.0502
0.5 – 5	0.5	< 0.5%	< 0.4%	< 0.2%	287.1.0505	287.2.0505

Tests performed with bidest water, using stainless steel cannula (1.2 x 50 mm), at constant working speed. Performance data may vary based on liquid type, viscosity and needle size.

\*Measured at 0.075 mL.

## Fixed volume and two-ring models

### Fixed volume syringe classic 187F

Closely related and sharing all features of the adjustable volume syringes, the fixed volume models with tube feeding offer an extremely high performance stability. Due to absence of a volume adjustment mechanism, these models eliminate any risk of setting error.

Standard supply includes:

- Luer Lock nozzle, set of spares for valves (springs, valve balls and washers)
- Feed tube set (silicone tubing, sinker, aspiration and vent cannulas)
- Operating instructions



#### Performance and ordering information

Volume (mL)	Precision (CV%)	Cat. No.	
		Fixed volume model with vial holder	Fixed volume model with feed tube
0.2	< 0.5%	1871.F05002	187.2.F05002
0.25	< 0.5%		187.2.F050025
0.3	< 0.4%	1871.F05003	187.2.F05003
0.5	< 0.4%	1871.F05005	187.2.F05005
1	< 0.4%	1871.F0501	187.2.F0501

Tests performed with bidest water, using stainless steel cannula (1.2 x 50 mm), at constant working speed. Performance data may vary based on liquid type, viscosity and needle size.

### Two-ring syringe classic 167

The ergonomic two-ring model offers an alternative work position to the classic pistol grip syringe from which it originates.

Standard supply includes:

- Luer Lock nozzle
- Set of spares for valves (springs, valve balls and washers)
- Feed tube set (silicone tubing, sinker, aspiration and vent cannulas)
- Operating instructions



#### Performance and ordering information

Volume range (mL)	Division (mL)	Precision (CV%)			Cat. No.
		Min. vol.	Mid. vol.	Max. vol.	167.2 model with feed tube
0.025 – 0.3	0.025	< 1.8%*	< 1.2%	< 0.5%	167.2.05003
0.1 – 0.5	0.1	< 1.2%	< 0.9%	< 0.4%	167.2.05005
0.1 – 1	0.05	< 0.7%	< 0.6%	< 0.4%	167.2.0501
0.3 – 2	0.1	< 0.6%	< 0.5%	< 0.4%	167.2.0502
0.5 – 5	0.5	< 0.5%	< 0.4%	< 0.2%	167.2.0505

Tests performed with bidest water, using stainless steel cannula (1.2 x 50 mm), at constant working speed. Performance data may vary based on liquid type, viscosity and needle size.

\*Measured at 0.075 mL.



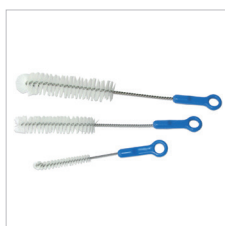
## Accessories



### Anti-blocking factor (ABF™)

The ABF™ lubricant is non-oily and antiadhesive, non-toxic and silicone-free. A thin layer on metal plunger effectively protects against corrosion.

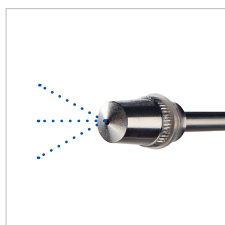
Description	Packaging	Cat. No.
Lubricant spray, 70 mL	1 pc	1.170.705
	6 / pk	1.170.906
	12 / pk	1.170.912
Lubricant spray refill bottle, 500 mL	1 pc	1.170.755
	6 / pk	1.170.956
	12 / pk	1.170.962



### Cleaning brushes

Cylinder and tube brushes with tufted end and plastic handle for glass barrel and tube cleaning.

Description	Packaging	Cat. No.
For barrels up to 1 mL	6 / pk	1.170.301
For 1, 2, 5 mL barrels	6 / pk	1.170.305
For 5, 10 mL barrels	6 / pk	1.170.320
Set of 6 nylon brushes, 2 each	6 / pk	1.170.300



### Cannulas with sprayer nozzle

Usable in versatile applications where spraying and nebulizing liquids are required. Available in short (180 mm) and long (500 mm) version. Made of chrome plated brass, Luer Lock, autoclavable.

Size (ø x L)	Packaging	Cat. No.
3.0 x 180 mm	1 pc	370.30180
3.0 x 500 mm	1 pc	370.30500



### Drenching cannulas

Adapted for the safe feeding or administration of medication to animals through the nose or mouth. Available straight or curved with a rounded end, the Luer Lock cannulas perfectly fit onto the syringe nozzle. Made of stainless steel, autoclavable at 121 °C / 250 °F.

Size (ø x L)	Packaging	Cat. No.	
		Straight version	Bent version
0.9 x 25 mm	3 / pk	376.0925S	376.0925B
1.2 x 51 mm	3 / pk	376.1251S	376.1251B
1.6 x 102 mm	2 / pk	376.16102S	376.16102B
3.0 x 203 mm	2 / pk	376.30203S	376.30203B



### Draw off needle

Draw off needle allows easy connection of aspiration tubing to a vial or to a hanging flexible pouch. Its sharp pointed tip easily pierces the rubber membrane. A lateral air inlet, protected by a filter blocks the entry of dust or particles.

Needle intended for single use only. It should be changed once removed from the vial to avoid risk of contamination.

Description	Packaging	Cat. No.
Draw off needle	6 / pk	1.187.590



### Rigid extension tubing

Made of a rigid PVDF, the extension tubing is available in two lengths (20 and 35 cm). It significantly increases distance between hand and animal. Great safety when injecting through a grid, in a truck or simply to avoid bending down when vaccinating pigs.

Description	Packaging	Cat. No.
20 cm long	1 pc	1.187.20
35 cm long	1 pc	1.187.35

## Accessories



### Conversion sets

Tube feeding set for converting vial holder syringes into tube feeding models. Set includes 1 meter silicone tubing, sinker, feed and vent cannulas.

Vial holder set for converting tube feeding syringes into vial holder models. Set

includes one each vial holder, tube connector, feed needle, locking ring, rubber washer (improves vial tightness in holder) and bottle-lock. No tools needed for instant mounting on syringe.

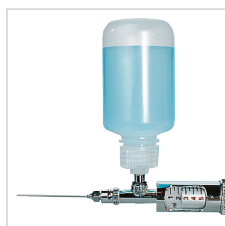
Description	Packaging	Cat. No.
Vial holder set with valve	1 pc	1.187.1B
Vial holder set without valve	1 pc	1.187.1C
Rubber washers, Ø 20 mm	10 / pk	1.187.745
Feed tubing set	1 pc	1.187.2B



### PVC protection sleeve

Installed in a second, the sleeve provides an efficient way of reducing glass barrel breakage. Sleeve is not autoclavable.

Description	Packaging	Cat. No.
Sleeve, 0.3, 0.5 mL barrels	6 / pk	1.170.4005
Sleeve, 1 mL barrels	6 / pk	1.170.401
Sleeve, 2 mL barrels	6 / pk	1.170.402
Sleeve, 5 mL barrels	6 / pk	1.170.405
Sleeve, 10 mL barrels	6 / pk	1.170.410



### PP reservoir with Rotlauf thread

Large screw-on PP reservoirs with air inlet available in three different capacities. Requires Rotlauf intake valve (Cat. No. 187.613) to be ordered separately. Autoclavable.

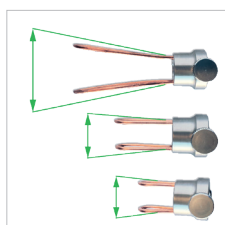
Description	Packaging	Cat. No.
60 mL	1 pc	1.187.060
125 mL	1 pc	1.187.150
250 mL	1 pc	1.187.250



### Injection handle

Ideal to inject in confined areas not easily reached by syringe. Set includes handle, 1 m. silicone tubing, Luer Lock connectors to syringe and needle. Also fits 20 or 35 cm rigid extension tubing.

Description	Packaging	Cat. No.
Injection handle set	1 pc	1.187.100



### FishGuide™

Accessory providing for correct needle positioning while injecting fishes.

It reduces risks of fish wounds and protects the user from possible injuries.

FishGuide™ can be positioned 360° on the syringes to adapt to the best working

position. It can be installed and removed in no time without any tools.

Description	Packaging	Cat. No.
FishGuide™, 15 mm long	1 / pk	1.187.015
FishGuide™, 25 mm long	1 / pk	1.187.025
FishGuide™, 45 mm long	1 / pk	1.187.045





## Spare parts



### Spare part kits

The spare part kit is placed in a dedicated bag, supplied with each syringe. It can also be ordered separately. Long term production stability guarantees part compatibility with instruments supplied over decades.

Description	Packaging	Cat. No.
Kit for valve, syringe 0.3 mL	1 bag	1.187.72003
Kit for valve, syringe 0.5 mL and fixed volume syringes 0.2-0.3-0.5 mL	1 bag	1.187.72005
Kit for valve, fixed and adjustable syringes, 1 mL	1 bag	1.187.7201
Kit for valve, syringe 2 mL	1 bag	1.187.7202
Kit for valve, syringe 5 mL	1 bag	1.187.7205
Kit for valve, syringe 10 mL	1 bag	1.187.7210



### Spare plunger

Interchangeable plungers are made of stainless steel. Changing the plunger or the glass barrel does not necessarily require the change of the other part.

Description	Packaging	Cat. No.
Plunger for fixed and adjustable syringes, 0.3 mL	1 pc	187.584
Plunger for fixed and adjustable syringes, 0.5 mL	1 pc	187.585
Plunger for fixed and adjustable syringes, 1 mL	1 pc	187.586
Plunger for 2 mL syringe	1 pc	187.587
Plunger for 5 mL syringe	1 pc	187.588
Plunger for 10 mL syringe	1 pc	187.589



### Replacement feed tubing

Spare feed tubing made of long-lasting medical grade silicone. Autoclavable at 121 °C / 250 °F or sterilizable in boiling water.

Description	Packaging	Cat. No.
Tube, syringes 0.3 to 10 mL, cut	1 m / pk	187.705
Tube, syringes 0.3 to 10 mL, uncut	By the meter	187.710
Tube, syringes 0.3 to 10 mL, cut	10 m / pk	187.910



### Replacement cannulas

Supplied with tube feeding syringes. Vent cannula introduced into stopper allows air flow into vial. When connected to syringe tubing, feed cannula provides for liquid aspiration from a bottle. Made of chrome plated brass (except 187.933: stainless steel).

Description	Packaging	Cat. No.
<b>Short vent cannulas</b>		
Plastic / SS, syringes 0.3 to 5 mL	10 / pk	187.933
Chrome-plated, syringes 10 mL	1 / pk	185.591
<b>Long feed cannulas</b>		
Chrome-plated, syringes 0.3 to 10 mL	1 / pk	187.592



### Spare glass barrels

Spare graduated barrels with guaranteed compatibility for instruments supplied over decades. Barrels and plungers are interchangeable. Replacing a barrel does not necessarily require the change of the plunger.

Description	Packaging	Cat. No.	
		Adjustable volume	Fixed volume
Barrel for 0.2 mL syringe	6 / pk		0187.002F
Barrel for 0.25 mL syringe	6 / pk		0187.0025F
Barrel for 0.3 mL syringe	6 / pk	0187.003	0187.003F
Barrel for 0.3 mL syringe, with plunger	6 / pk	0187.003P	
Barrel for 0.5 mL syringe	6 / pk	0187.005	0187.005F
Barrel for 0.5 mL syringe, with plunger	6 / pk	0187.005P	
Barrel for 1 mL syringe	6 / pk	0187.01	0187.01F
Barrel for 2 mL syringe	6 / pk	0187.02	
Barrel for 5 mL syringe	6 / pk	0187.05	
Barrel for 10 mL syringe	6 / pk	0187.10	

### Sustainability

Socorex instruments are designed to last. When parts get damaged, they can be easily replaced. All parts are interchangeable and contribute to the longevity of the products. Durability and waste management are a longtime priority for Socorex.



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