

Animal health products



Automatic self-refilling light syringe

The ultra 1810 syringe line delivers highly precise doses, setting new standards in micro volumes injections.

Reusable, extremely robust, yet

light in weight, the instrument's capacity stretches from 0.02 mL to 2 mL.
Intended for applications among various animal species such as (but not limited to) fish, pigeons, rabbits, chicks, ducks, poultry, geese and piglets.

- Superior, long-lasting quality
- Natural ergonomics
- Suitable for all vaccines and medications
- Longevity matching environmental considerations
- High flexibility in use
- Autoclavable fully assembled at 121 °C / 250 °F



Superior material selection for ultimate durability

Part	Material	
Feed tubing	Medical grade silicone	
Barrel	Soda-lime glass (0.5, 1, 2 mL) Borosilicate glass 3.3 (0.1, 0.2, 0.3 m	
Plunger	Stainless steel	
Barrel washer	FPM*	
Plunger O-ring (0.1, 0.2 and 0.3 mL models)	FPM*	
Valve cartridge	PP, stainless steel and FPM*	
Syringe casing	PA with glass fiber	
Sinker and feed cannula	Nickel-chrome plated brass	

^{*}FPM used in Socorex products is FDA compliant



Environment and sustainability

Robustness and longevity of the Socorex instruments are clear contributions to environmental considerations. Instruments can be disassembled and reassembled multiple times and worn parts easily replaced.

Supplied in special reusable packaging to always keep the instrument safe.

Natural ergonomics

Shorter axis and revised handle design makes the syringe fit in hand in the most comfortable way. Activation can be performed with minimal effort, guaranteeing high productivity output.



Easy and flexible in use

Volume can easily be set with the micrometric screw and secured with a locking nut to assure high dose-to-dose reproducibility even with small volumes. Vial and tube feeding accessories are interchangeable on the syringe.



Instrument features





Syringe comparison



Syringe handle	PA enriched with glass fibers			
Plunger	Stainless steel			
Plunger tightness	No O-ring (except	ultra 1810 ≤ 0.3 mL)		
Nozzle	Metal Li	uer Lock		
Disassembly	Easy access to all parts for n	naintenance, no tools needed		
Spare parts	All parts availa	able separately		
Sterilization	Disassembled in boiling water or ass	sembled in autoclave (121 °C / 250 °F)		
Specific	Conversion sets vial and tube feeding, FishGuide™			
accessories	Abacus™ shot counter	Manifold for Twin syringe		
Weight*	91 g	155 g		
Activation force*	~14 N	~20 N		
Handle distance at rest*	55 mm	70 mm		
Syringe body	PA enriched with glass fiber Nickel-chrome plated brass			
Syringe barrel	Thick ground glass	Ground glass		
Models	Tube and vial feeding	Tube and vial feeding, single or Twin		
Volume ranges	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		
Fixed volume	N/A	0.2, 0.3, 0.5 and 1 mL		
Valve system	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

Areas of application per syringe type

					es				
				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								
3	Pigeons Chicken								
4	Rabbits								
1	Chicks								
2	Ducks								
1	Poultry								
69	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 ultra 1810 model

Standard supply includes:

- Luer Lock nozzle
- Barrel washer
- Bottle lock
- Connection tubing
- Operating instructions

Tube feeding *ultra* **1810 model**

Standard supply includes:

- Luer Lock nozzle
- 1 m feed tubing
- Sinker
- Feed needle and vent cannula
- Operating instructions

Tube feeding *ultra* 1810 model with Abacus™

This advanced syringe combines tube feeding functionality and a built-in Abacus™ shot counter, offering a comprehensive solution for precise injectables delivery and dosage management. Shot counter performs precise counts of every injection. Abacus™ shot counter is not autoclavable.

Syringes supplied with a spare part bag, including barrel washer, plunger O-ring, and guide for O-ring (only for sizes up to 0.3 mL). Spare part bag also available separately.

see page



Performance and ordering information

		Precision (CV%)			Cat. No.		
Volume range (mL)	Division (mL)	Min. vol.	Mid. vol.	Max. vol.	1810.1 model with vial holder	1810.2 model with feed tube	1810.6 model with feed tube and Abacus™*
0.02 - 0.1	0.005	< 1.8%	< 1.2%	< 0.5%	1810.1.05001	1810.2.05001	1810.6.05001
0.05 - 0.2	0.01	< 1.6%	< 1.0%	< 0.5%	1810.1.05002	1810.2.05002	1810.6.05002
0.05 - 0.3	0.025	< 1.4%	< 0.9%	< 0.45%	1810.1.05003	1810.2.05003	1810.6.05003
0.1 - 0.5	0.05	< 1.2%	< 0.8%	< 0.4%	1810.1.05005	1810.2.05005	1810.6.05005
0.1 – 1	0.05	< 0.7%	< 0.6%	< 0.4%	1810.1.0501	1810.2.0501	1810.6.0501
0.3 - 2	0.1	< 0.6%	< 0.5%	< 0.4%	1810.1.0502	1810.2.0502	1810.6.0502

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.

*The usable volume range of the 1810 syringe, when used with Abacus™, may vary, particularly at the lower end of the volume spectrum. For detailed information, please visit the product webpage or consult the Quick Guide.

Accessories and parts

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
	1 pc	1.170.755
Lubricant spray refill bottle, 500 mL	6 / pk	1.170.956
	12 / pk	1.170.962



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.

		Cat. No.	
Size (ø x L)	Packaging	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



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



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



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



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



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	1.1810.015
FishGuide [™] , 25 mm long	1 / pk	1.1810.025
FishGuide [™] , 45 mm long	1 / pk	1.1810.045



Vial holder conversion set

Set for converting *ultra* 1810 tube feeding syringe into vial holder model. It includes one of each: vial holder, tube connector and bottle-lock. No tools needed for instant mounting on syringe.

Description	Packaging	Cat. No.
Vial holder set	1/pk	1.1810.010
Replacement tube connector	1 / pk	1810.716
Replacement duck bill valve	1 / pk	1810.975



Abacus™ shot counter

Shot counter performs precise counts of every injection. The device is easily installed and removed and has a priming/rinsing position disabling shot counting. Casing is water-tight to prevent water from entering and damaging the mechanism. Abacus™ is not autoclavable.

Description	Packaging	Cat. No.
Counter for 0.1 and 0.2 mL syringes	1 / pk	1.1810.962
Counter for 0.3 and 0.5 mL syringes	1 / pk	1.1810.966
Counter for 1 and 2 mL syringes	1 / pk	1.1810.967
*Magnet for reset	1 / pk	1.1810.160



White oil for plunger O-ring

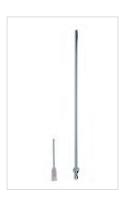
Quality paraffin white oil intended for use with self-refilling syringe *ultra* 1810. A small drop added at barrel entry facilitates plunger movement when fitted with O-ring.

Description	Packaging	Cat. No.
50 mL bottle	1 / pk	1.1810.700

See other accessories on page



Spare parts



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.
Vent cannulas, plastic / SS syringes 0.1 to 2 mL, short 1.2 x 40 mm	10 / pk	187.933
Feed cannulas, chrome-plated, syringes 0.1 to 2 mL, long 3 x 190 mm	1 / pk	1810.973



Spare part kits

Spare part set is supplied with each syringe in a separate bag. Content up to 0.3 mL: 2 compact cartridges (inlet valve, outlet valve) 2 barrel washers, 2 plunger O-rings, 1 guide for O-ring. Bag content as of 0.5 mL: 2 compact cartridges (inlet valve, outlet valve) and 3 barrel washers.

Description	Packaging	Cat. No.
Kit for valve, syringe 0.1 mL	1 bag	1.1810.72001
Kit for valve, syringe 0.2 mL	1 bag	1.1810.72002
Kit for valve, syringe 0.3 mL	1 bag	1.1810.72003
Kit for valve, syringe 0.5 mL	1 bag	1.1810.72005
Kit for valve, syringe 1 mL	1 bag	1.1810.7201
Kit for valve, syringe 2 mL	1 bag	1.1810.7202



Spare valves

Compact valve cartridges, easy to handle and interchange. Valve shapes ensure proper positioning.

Description	Color	Packaging	Cat. No.
Intake valve (0.1 - 0.5 mL)	red	1 pc	1810.915
Outlet valve (0.1 - 0.5 mL)	red	1 pc	1810.945
Intake valve (1 - 2 mL)	yellow	1 pc	1810.916
Outlet valve (1 - 2 mL)	yellow	1 pc	1810.946



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.
Feed tubing, 1 m, ≤ 0.3 mL	1 pc	1810.705
Feed tubing, 1 m, ≥ 0.5 mL	1 pc	187.705
Feed tubing, uncut, 0.1, 0.2 and 0.3 mL	by the meter	1810.710
Feed tubing, uncut, 0.5 to 2 mL	by the meter	187.710
Feed tubing, 10 m, ≤ 0.3 mL	1 pc	1810.910



Spare glass barrels

Graduated barrels. Barrels and plungers are interchangeable. Replacing a barrel does not necessarily require the change of the plunger.

Description	Packaging	Cat. No.
Barrel for 0.1 mL syringe	6 / pk	01810.001
Barrel for 0.2 mL syringe	6 / pk	01810.002
Barrel for 0.3 mL syringe	6 / pk	01810.003
Barrel for 0.5 mL syringe	6 / pk	01810.005
Barrel for 1 mL syringe	6 / pk	01810.01
Barrel for 2 mL syringe	6 / pk	01810.02



Spare plungers

Made of stainless steel. Supplied with O-ring for volumes up to 0.3 mL.

Description	Packaging	Cat. No.
Plunger for 0.1 mL syringe*	1 pc	1810.981
Plunger for 0.2 mL syringe*	1 pc	1810.982
Plunger for 0.3 mL syringe*	1 pc	1810.983
Plunger for 0.5 mL syringe	1 pc	1810.585
Plunger for 1 mL syringe	1 pc	1810.586
Plunger for 2 mL syringe	1 pc	1810.587

*O-ring included



Spare O-ring

Made of robust FEP elastomere, the O-ring guarantees perfect plunger tightness.

Description	Packaging	Cat. No.
Plunger O-ring for 0.1 mL syringe	10 / pk	1810.951
Plunger O-ring for 0.2 mL syringe	10 / pk	1810.952
Plunger O-ring for 0.3 mL syringe	10 / pk	1810.953



Guide for plunger O-ring

Simple tool for easy O-ring replacement. One guide is also supplied in each spare part kit.

Description	Packaging	Cat. No.
Guide for plunger O-ring, syringe 0.1 mL	10 / pk	1810.971
Guide for plunger O-ring, syringe 0.2 mL	10 / pk	1810.972
Guide for plunger O-ring, syringe 0.3 mL	10 / pk	1810.973

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.





Socorex Isba SA

Chemin de Champ-Colomb 7a 1024 Ecublens/Lausanne Switzerland Tel +41 21 651 6000 socorex@socorex.com

www.socorex.com

Your local distributor

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