

laboratory syringes



From the basic unit to the corrosion resistant model, the laboratory dedicated syringe line offers precision instruments you can trust.

Intended for safe and reliable liquid distribution, the selection of pistol grip and two-ring instruments comes in a wide volume range.

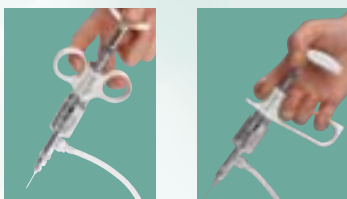
All-glass syringes are a high-value, low-cost alternative to plastic syringes, complementing the self-refilling models in many applications.

Automatic syringe features and benefits:

- Optimal hand balance and ergonomics
- Fast and reliable volume setting
- Excellent reproducibility
- Plunger tightness without O-ring
- High chemical resistance
- Easy disassembling and maintenance
- Fully autoclavable

The Dosys™ syringe series

150 160 170



► Simple, natural movements

Both pistol grip and two-ring handle fit any hand in a most comfortable way. Activation performed with limited effort even in long dispensing series.



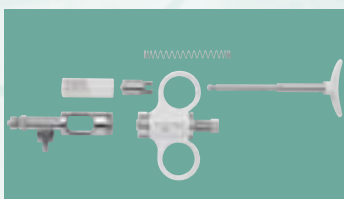
► Volume selection - reliable reproducibility

Volume is set within seconds. It will not vary while activating the syringe, thanks to the safety-locking nut on the micrometric screw. Dose by dose reproducibility (CV) is excellent, as witnessed by performance figures.



► 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. Each laboratory syringe is supplied with a PVC protection sleeve (not autoclavable) to prevent glass barrel breakage.



► Few-part assembly - means low maintenance



The automatic syringes are made of 6 main parts, easy to disassemble. Fast access to all elements allows rapid and efficient cleaning. Spares are available at reasonable cost.

Automatic syringe specifications

The Socorex self-refilling syringes are efficient in many repeat dispensing activities of reagents, solutions or suspensions.

Refer to charts below to select the appropriate models for your needs.

Instrument selection

Two-ring handle	Volume range mL	Division mL	Two-ring model 162 Cat. No.
	0.025 - 0.3	0.025	
	0.1 - 0.5	0.1	
	0.1 - 1	0.05	162.0501
	0.3 - 2	0.1	162.0502
	0.5 - 5	0.5	162.0505
	1 - 10	1	
Pistol handle	Volume range mL	Division mL	Pistol model 172 Cat. No.
	0.025 - 0.3	0.025	
	0.1 - 0.5	0.1	
	0.1 - 1	0.05	172.0501
	0.3 - 2	0.1	172.0502
	0.5 - 5	0.5	172.0505
	1 - 10	1	172.0510
	5 - 20	1	

Accessories

Description	Size	See page	Comment	■ Included ● Option
Protection sleeves	6 sizes	6		■
Feed tubing	1 meter	6		●
Sinker			Needle on 20 mL	●
Feed cannula	Up to 10 mL, Ø 3 x 190 mm 20 mL, Ø 7 x 190 mm,	6		●
Vent cannula	Up to 5 mL, Ø 1.2 x 40 mm 10 mL, Ø 3 x 40 mm 20 mL, Ø 7 x 40 mm	6		●
Set of spares for valves		6		
Dosing cannulas, Luer Lock	1 and 2 mL, Ø 1.2 x 50 mm 5 and 10 mL, Ø 2.2 x 100 mm	5		●
Manifolds	4 and 8 channel	4		●
Other needles and cannulas		5		●
Tubing connector, Luer Lock			Cat. No. 187.736	●
Vial holder conversion set		3	Except 20 mL	
Enhanced tightness set		4	5 mL only	
Aspiration valve		4		●
Reagent reservoirs	3 sizes	3	Except 20 mL	●
Tip, polypropylene	37 mm	5		●
Straw, polypropylene, sterile	Ø 4 x 190 mm	5		●
Nylon brushes	3 sizes	5		●
Syringe stand		3		●

*Threaded and other nozzles available

Dosys™ basic

162/172

• Fill by fill (automatic) through needle or c

- Plunger without O-ring
- Interchangeable glass
- Luer Lock fitting *



Unlimited applications

Dispensing / distribution

Spring-loaded plunger and three-way valve system allow for trouble-free distribution of a large variety of liquids. Feed tubing standard supplied. See accessories for bottle feeding.



Sterile work

Syringes and accessories are autoclavable fully assembled (121°C). Particularly adapted for sterile distribution of hot agar, or precise dosing of culture media and supplements in tissue culture flasks.



Filtration at your nozzle tip

A sterile filter disk set on the Luer lock outlet valve turns the instrument into a filtration syringe. Optional enhanced tightness set improves efficiency of long filtration series or when using small pore sizes.



Dose by dose distribution

Sampling with 162 and 172 models (or 164 / 174 models after removing the detachable valve assembly). Both spring-assisted aspiration and distribution occur through the cannula.



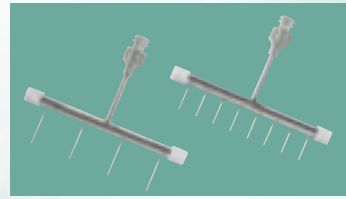
Aspiration

The *reverse modus* valve set is meant for precise and safe liquid aspiration (ex. waste collection in separate container). Vented waste collector cap and enhanced tightness set are recommended.



Animal injection

For safe and stress-free injections of laboratory animals. Select suitable needles and drenchers listed in the accessory section.



Multiple dispensing manifold

Tightly fitting any Luer and Luer Lock syringe nozzles, the stainless steel manifolds (with PTFE stoppers) allow convenient media distribution in 24- and 96 well plates. Fully autoclavable.

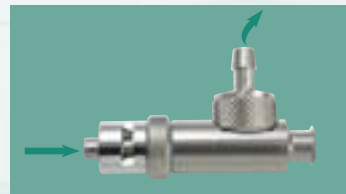
Description	Packaging	Cat. No.
4 channel, Luer Lock	1 / pk	1.170.054
8 channel, Luer Lock	1 / pk	1.170.058



Enhanced tightness set

The special clear glass barrel / O-ring fitted plunger enhance tightness when demanded by application. (ex. filtration, aspiration, etc.)

Description	Packaging	Cat. No.
Enhanced tightness set, for 5 mL automatic syringes	1 / pk	1.170.205
Spare glass barrel 5 mL for tightness set	6 / pk	0187.05T



Accessories for aspiration

Description	Packaging	Cat. No.
Reverse modus aspiration valve unit for 162 / 172 / 164 / 174 models	1 / pk	1.170.952
Screw cap Ø 45 mm, with tubing connection and filtered air outlet	1 / pk	1.170.945



All-glass syringes

The reusable borosilicate glass syringes are superior chemical and heat shock resistant. Precision-machined plunger and barrel provide for excellent fitting and tightness.



Dosys™ all glass

155

- Permanent, high visibility graduations for accurate distribution up to 50 mL
- Autoclavable at 121° C.

Volume range mL	Division mL	Packaging	Luer nozzle Cat. No.	Luer Lock metal nozzle Cat. No.
0.1 – 1	0.05	3 / pk	155.0301	155.0501
0.5 – 2	0.1	3 / pk		155.0502
0.2 – 5	0.2	3 / pk	155.0305	155.0505
1 – 10	0.2	3 / pk	155.0310	155.0510
1 – 20	1	2 / pk	155.0320	155.0520
1 – 50	2	1 / pk		155.0550

General syringe accessories

Natural PP tips and straws

Description	Packaging	Cat. No.
Short tip, 35 mm, autoclavable	100 / bag	313.170
Straw, Ø 4 mm, L 190 mm sterile	20 x 25 / pk	313.1100

Brush with plastic handle

Description	Packaging	Cat. No.
For 0.3, 0.5, 1 mL barrels	6 / pk	1.170.301
For 1, 2, 5 mL barrels	6 / pk	1.170.305
For 5, 10, 20 mL barrels	3 / pk	1.170.320
Set of 2 each nylon brushes assorted	6 / pk	1.170.300

Drenchers, animal mouth cannulas

Drencher, straight (Ø x L)	Packaging	Cat. No.	Drencher, bent (Ø x L)	Packaging	Cat. No.
0.9 x 25 mm	3 / pk	376.0925S	0.9 x 25 mm	3 / pk	376.0925B
1.2 x 51 mm	3 / pk	376.1251S	1.2 x 51 mm	3 / pk	376.1251B
1.6 x 102 mm	3 / pk	376.16102S	1.6 x 102 mm	2 / pk	376.16102B
3.0 x 203 mm	2 / pk	376.30203S	3.0 x 203 mm	2 / pk	376.3020B

Needles and cannulas

Blunt end lab cannula (Ø x L)	Packaging	Cat. No.	Bevelled needle (Ø x L)	Packaging	Cat. No.
0.8 x 40 mm	12 / pk	370.0840	1.2 x 10 mm	1 / pk	371.1210UN
1.2 x 50 mm	1 / pk	370.1250	1.6 x 20 mm	1 / pk	371.1620UN
2.2 x 100 mm	1 / pk	370.22100	2.0 x 30 mm	1 / pk	371.2030UN

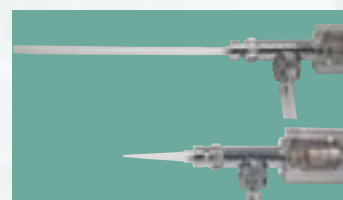
Bevelled needle (Ø x L) 12/pack	Cat. No.	Bevelled needle (Ø x L) 12/pack	Cat. No.	Bevelled needle (Ø x L) 12/pack	Cat. No.
0.8 x 10 mm	371.0810	1.2 x 15 mm	371.1215	1.8 x 10 mm	371.1810
0.8 x 20 mm	371.0820	1.2 x 20 mm	371.1220	1.8 x 20 mm	371.1820
0.8 x 30 mm	371.0830	1.2 x 35 mm	371.1235	1.8 x 30 mm	371.1830
0.8 x 40 mm	371.0840	1.2 x 50 mm	371.1250	2.0 x 30 mm	371.2030
1.0 x 10 mm	371.1010	1.6 x 20 mm	371.1620	2.0 x 40 mm	371.2040
1.0 x 20 mm	371.1020	1.6 x 25 mm	371.1625	2.0 x 50 mm	371.2050
1.0 x 30 mm	371.1030	1.6 x 30 mm	371.1630	2.0 x 100 mm	371.20100
1.0 x 40 mm	371.1040	1.6 x 100 mm	371.16100		

Additional sizes available



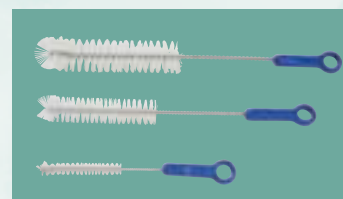
Choice of nozzles

All glass syringes have Luer or Luer Lock fitting at choice.



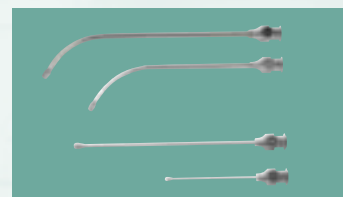
Tips and straws

Polypropylene tips and straws offer alternative syringe extensions where needles and cannulas are unsuitable. Simply cut straw to desired length.



Cylinder and tube brushes

Heavy-duty nylon brushes with tufted end provide for efficient glass barrel and tube cleaning.



Drenchers

Drenchers allow safe animal mouth feeding. Stainless steel, autoclavable.





Needles and cannulas

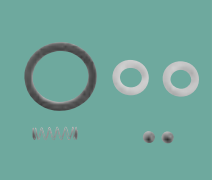
Superior quality, stainless steel, autoclavable.


laboratory syringes


Spares for self-refilling syringes

	Description	Packaging	Cat. No.
	Glass barrel, grounded, interchangeable		
	Spare glass barrel, 0.3 mL	6 /pk	0187.003
	Spare glass barrel, 0.5 mL	6 /pk	0187.005
	Spare glass barrel, 1 mL	6 /pk	0187.01
	Spare glass barrel, 2 mL	6 /pk	0187.02
	Spare glass barrel, 5 mL	6 /pk	0187.05
	Spare glass barrel, 10 mL	6 /pk	0187.10
	Spare glass barrel, 20 mL	3 /pk	0187.20

	Protection sleeve, PVC, (not autoclavable)		
	Fit 0.3, 0.5 mL barrel	6 /pk	1.170.4005
	Fit 1 mL barrel	6 /pk	1.170.401
	Fit 2 mL barrel	6 /pk	1.170.402
	Fit 5 mL barrel	6 /pk	1.170.405
	Fit 10 mL barrel	6 /pk	1.170.410
	Fit 20 mL barrel	3 /pk	1.170.420

	Spare bag includes springs, balls, washers for valve and barrel washer		
	Set for valve, 0.3 mL	1 bag	1.187.05003
	Set for valve, 0.5 mL	1 bag	1.187.72005
	Set for valve, 1 mL	1 bag	1.187.7201
	Set for valve, 2 mL	1 bag	1.187.7202
	Set for valve, 5 mL	1 bag	1.187.7205
	Set for valve, 10 mL	1 bag	1.187.7210
	Set for valve, 20 mL	1 bag	1.187.7220

	Spare feed tubing		
	Silicone, for syringe 0.3 - 10 mL	1 m	187.705
	Silicone, for syringe 0.3 - 10 mL	Uncut, by the meter	187.710
	Vinyl, for syringe 0.3 - 10 mL	1 m	187.709
	Silicone, for syringe 20 mL	1 m	187.707

	Spare cannulas		
	Short vent cannulas:		
	For 0.3 to 5mL models, plastic / ss	1 /pk	187.933
	For 10 mL model, chrome plated	1 /pk	187.591
	For 20 mL model, chrome plated	1 /pk	187.593
	Long feed cannulas, chrome plated:		
For 0.3 to 10 mL models	1 /pk	187.592	
	For 20 mL model	1 /pk	187.594

Your local distributor

Note on published performance data

Tests performed with bi-dest water, using a stainless steel cannula (Ø: 1.2 mm, L: 50 mm) at constant working speed. The accuracy may vary according to the plunger adjustment and working speed.

Performance data using manifolds available on request.

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