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 info@lab-eu.com info@pristroje.cz

Disposable Syringes

Luer-Lok™ tips allow for easy connection of syringe filters

Use these latex-free, disposable polycarbonate syringes for your general-purpose applications. Available in either Luer-Lok or slip-tip versions. Sterile syringes come individually wrapped and can be autoclaved out of the package. Nonsterilized syringes come in bulk packages and can be autoclaved. Needles and shield tips are not included; order separately.



Catalog number	Capacity	Graduations	Type	Qty	Price
Sterilized syringes, individually wrapped					
TW-07940-00	1 mL	1/100 mL	Luer-Lok	100/bx	
TW-07940-02	3 mL	1/10 mL	Luer-Lok	200/bx	
TW-07940-04			Slip tip		
TW-07940-06	5 mL	1/2 mL	Luer-Lok	100/bx	
TW-07940-08			Slip tip	125/bx	
TW-07940-12	10 mL	1/2 mL	Luer-Lok	100/bx	
TW-07940-14			Slip tip		
TW-07940-16	20 mL	1 mL, 3/4 oz in 1/8 oz	Luer-Lok	40/bx	
TW-07940-18			Slip tip		
TW-07940-20	30 mL	1 mL, 1 oz in 1/8 oz	Luer-Lok	40/bx	
TW-07940-22			Slip tip		
TW-07940-30	60 mL	1 mL, 2 oz in 1/4 oz	Luer-Lok	40/bx	
TW-07940-28			Slip tip		
Nonsterilized syringes, bulk pack					
TW-07945-00	1 mL	1/100 mL	Slip tip	3000/cs	
TW-07945-02	3 mL	1/10 mL	Luer-Lok	1600/cs	
TW-07945-04			Slip tip		
TW-07945-06	5 mL	1/2 mL	Luer-Lok	1400/cs	
TW-07945-08			Slip tip		
TW-07945-12	10 mL	1/2 mL	Luer-Lok	850/cs	
TW-07945-14			Slip tip		
TW-07945-16	20 mL	1 mL, 3/4 oz in 1/8 oz	Luer-Lok	325/cs	
TW-07945-18			Slip tip		
TW-07945-24	30 mL	1 mL, 1 oz in 1/8 oz	Luer-Lok	225/cs	
TW-07945-22			Slip tip		
TW-07945-28	60 mL	1 mL, 2 oz in 1/4 oz	Luer-Lok	125/cs	
TW-07945-30			Slip tip		

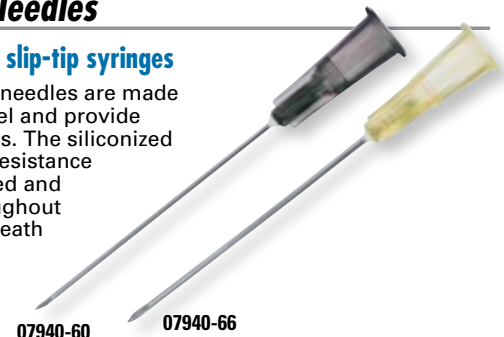
- TW-07940-99 Syringe tip shield, sterile. Pack of 200
- TW-07945-85 Syringe storage bin, 10 3/4" L x 8 1/4" W x 7" H. Case of 6
- TW-07945-88 Divider for syringe storage bin 07945-85. Case of 12
- TW-07945-90 Syringe storage bin, 7 3/8" L x 4 1/8" W x 3" H. Case of 24
- TW-07945-93 Divider for syringe storage bin 07945-90. Case of 12
- TW-07945-95 Syringe storage bin, 5 3/8" L x 4 1/8" W x 3" H. Case of 24
- TW-07945-98 Divider for syringe storage bin 07945-95. Case of 12

Disposable Needles

Fit Luer-Lok™ and slip-tip syringes

These disposable needles are made from stainless steel and provide superior sharpness. The siliconized cannulae reduce resistance and maintain speed and smoothness throughout the injection. A sheath protects the point and cannula.

Sterile single-use needles come in strips of five and have lot control number on package, indicating complete sterility. Nonsterile needles come individually wrapped in an easy-open pouch and may be autoclaved outside of package or sterilized by ethylene oxide within the easy-open pouch.



Catalog number	Gauge	Length	O.D. (mm)	Tip type	Color	Qty	Price
Sterilized needles							
TW-07940-52	25G	1"	0.51	Bevel	Blue	100/bx	
TW-07940-54		1 1/2"					
TW-07940-56	23G	1"	0.64	Bevel	Turquoise	100/bx	
TW-07940-58	22G	1"	0.71	Bevel	Black	100/bx	
TW-07940-60		1 1/2"					
TW-07940-62	21G	1"	0.81	Bevel	Green	100/bx	
TW-07940-64	20G	1"	0.89	Bevel	Yellow	100/bx	
TW-07940-66		1 1/2"					
TW-07940-68	18G	1"	1.24	Bevel	Pink	100/bx	
TW-07940-70		1 1/2"					
Nonsterilized needles							
TW-07945-62	25G	1"	0.51	Bevel	Blue	5000/cs	
TW-07945-64		3/8"					
TW-07945-66	23G	1"	0.64	Bevel	Turquoise	5000/cs	
TW-07945-68	22G	1 1/2"	0.71	Bevel	Black	5000/cs	
TW-07945-70		1"					
TW-07945-72	21G	1 1/2"	0.81	Bevel	Green	5000/cs	
TW-07945-74	20G	1 1/2"	0.89	Bevel	Yellow	5000/cs	
TW-07945-76		1"					
TW-07945-78	19G	1 1/2"	1.07	Thin wall	Brown	5000/cs	
TW-07945-80	18G	1 1/2"	1.24	Bevel	Pink	5000/cs	

Polypropylene Sharps Collectors

Safely dispose of dangerous needles

Durable, puncture-resistant collectors can be autoclaved or incinerated. Both collectors are easily visible and feature biohazard warning labels.



07940-75 07940-76

Catalog number	Capacity	Entry	Qty/cs	Price/cs
LZ-07940-75	5.4 quarts	Horizontal	12	
LZ-07940-76	2 gallons	Horizontal	10	

Syringe Filters

Choose the right filter for your application. Luer lock syringe filters are available in a variety of porosities and membrane materials, including:

- PTFE
- Nitrocellulose
- Nylon
- And more!
- Cellulose acetate

See the "Filtration" section on pages 465-508 for details.



Nonsterile PTFE Filters

Catalog number	Pore size	Membrane dia	Housing	Color	Qty/bx	Price/bx
LZ-29550-08	0.20 µm	15 mm	PP	Natural	100	
LZ-29550-10	0.45 µm				100	
LZ-02915-20	0.20 µm	25 mm	PP	Natural	100	
LZ-02915-22	0.45 µm				100	
LZ-02915-28	0.20 µm	50 mm	PP	Natural	20	
LZ-02915-30	0.45 µm				20	



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High-Performance Micro and Macro Syringes

Gas- and liquid-tight up to 200 psi!

Syringes handle corrosive gases and liquids, radioactive materials, and sterile solutions—ideal for gas and liquid chromatography. Sample loss is negligible at pressures up to 200 psi, depending on bore diameter.

These essentially inert syringes have PTFE-coated plungers (50- and 100-µL models have stainless steel plunger with removable PTFE tip). Barrels and plungers are interchangeable within each syringe size, allowing field repair. The three syringe types are described below.

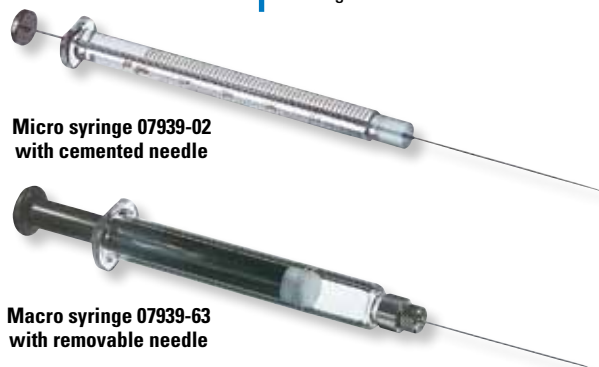
Cemented Needle Syringes include an epoxy-cemented, 304 stainless steel needle with noncoring tip. Not for use at temperatures above 122°F (50°C).

Removable Needle Syringes use a threaded hub and PTFE sealing ferrule that can be tightened to compensate for wear. Syringes include a 304 stainless steel needle with noncoring tip. Do not heat above 239°F (115°C); autoclavable when disassembled.

Syringes with Luer Tip and PTFE Luer-Lok™ Connections feature a ground glass, luer taper. Autoclavable if plunger is removed. Needles are not included; order separately on page 1643.

Custom Ordering Solutions

Contact your local dealer to assist you in your syringe selection. We have many more syringes available through our custom ordering solutions.



Micro syringe 07939-02 with cemented needle

Macro syringe 07939-63 with removable needle

Micro Syringes

Catalog number	Syringes		Needles		Price/ea
	Capacity	Type	Gauge†	Tip type	
TW-07939-00 TW-07939-10 TW-07939-20	10 µL	Cemented needle Removable needle Luer tip†	26s	Noncoring beveled	
TW-07939-01 TW-07939-11 TW-07939-21	25 µL	Cemented needle Removable needle Luer tip†	22s	Noncoring beveled	
TW-07939-02 TW-07939-12 TW-07939-22 TW-07939-32	50 µL	Cemented needle Removable needle Luer tip† PTFE luer-lock†	22s	Noncoring beveled	
TW-07939-03 TW-07939-13 TW-07939-23 TW-07939-33	100 µL	Cemented needle Removable needle Luer tip† PTFE luer-lock†	22s	Noncoring beveled	
TW-07939-04 TW-07939-14 TW-07939-24 TW-07939-34	250 µL	Cemented needle Removable needle Luer tip† PTFE luer-lock†	22s	Noncoring beveled	
TW-07939-05 TW-07939-15 TW-07939-25 TW-07939-35	500 µL	Cemented needle Removable needle Luer tip† PTFE luer-lock†	22	Noncoring beveled	

†Luer tip and luer-lock syringes do not include a needle; order separately on page 1643.
‡An "s" denotes "small bore"—reduces dead volume and improves transfer accuracy.

Macro Syringes

Catalog number	Syringes		Needles		Price/ea
	Capacity	Type	Gauge	Tip type	
TW-07939-50 TW-07939-60 TW-07939-70 TW-07939-80	1.0 mL	Cemented needle Removable needle Luer tip†† PTFE luer-lock††	22	Noncoring beveled	
TW-07939-51 TW-07939-61 TW-07939-71 TW-07939-81	1.25 mL	Cemented needle Removable needle Luer tip††	22	Noncoring beveled	
TW-07939-52 TW-07939-62 TW-07939-72 TW-07939-82	2.5 mL	Cemented needle Removable needle Luer tip†† PTFE luer-lock††	22	Noncoring beveled	
TW-07939-53 TW-07939-63 TW-07939-73 TW-07939-83	5 mL	Cemented needle Removable needle Luer tip†† PTFE luer-lock††	22	Noncoring beveled	
TW-07939-54 TW-07939-64 TW-07939-74 TW-07939-84	10 mL	Cemented needle Removable needle Luer tip†† PTFE luer-lock††	22	Noncoring beveled	
TW-07939-85 TW-07939-86	25 mL 50 mL	PTFE luer-lock†† PTFE luer-lock††	— —	— —	

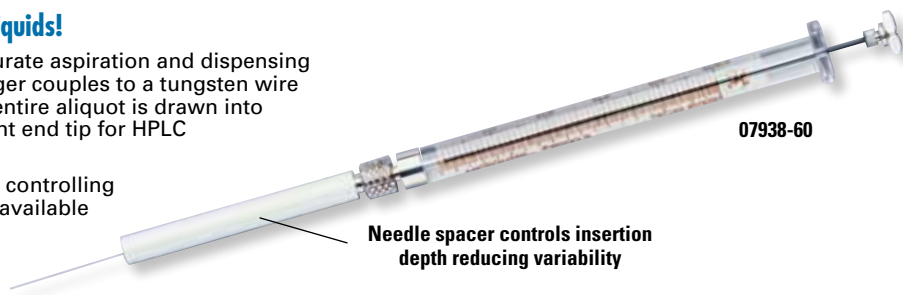
††Luer tip and luer-lock syringes do not include a needle; order separately on page 1643.

Microliter® Low-Volume Syringes with Needle

Minute, accurate transfers—even for volatile liquids!

These positive displacement syringes enable accurate aspiration and dispensing of problematic liquids—down to 0.5 µL. The plunger couples to a tungsten wire inside the needle, eliminating dead volume. The entire aliquot is drawn into the needle. Stainless steel needles have a 90° blunt end tip for HPLC injections and pipetting.

A spacer around the needle reduces variability by controlling insertion depth. The needle, wire, and ferrule are available as a replacement kit; order separately from table.



07938-60

Needle spacer controls insertion depth reducing variability

Catalog number	Syringes		Needles		Price/ea	Replacement kits	
	Capacity	Type	Gauge	Tip type		Catalog number	Price
TW-07938-60 TW-07938-61 TW-07938-62 TW-07938-63	0.5 µL 1.0 µL 2.0 µL 5.0 µL	Removable needle	25 25 25 24	90° blunt end		TW-07938-65 TW-07938-66 TW-07938-67 TW-07938-68	



Standard Microliter® Syringes

Provide precise liquid delivery—from 10 µL to 500 µL

Syringes with Cemented and Removable needles include a 304 stainless steel needle with a noncoring beveled tip—ideal for septum penetration in all chromatographic techniques. If you use large numbers of syringes, choose one of our convenient “economy packs” containing six 10-µL syringes with cemented or removable needles. Each pack is in a protective storage container and includes a set of adhesive-backed numbers for syringe identification.

Syringes with Luer Tip Connections do not include a needle; order needles separately from ad below.



Catalog number	Syringes		Needles		Price/ea	Economy packs	
	Capacity	Type	Gauge†	Tip type		Catalog number	Price/pk of 6
TW-07938-00 TW-07938-10	10 µL	Cemented needle Removable needle	26s	Noncoring beveled		TW-07938-30 TW-07938-40	
TW-07938-01 TW-07938-11 TW-07938-21	25 µL	Cemented needle Removable needle Luer tip†	22s	Noncoring beveled		—	—
TW-07938-02 TW-07938-12 TW-07938-22	50 µL	Cemented needle Removable needle Luer tip†	22s	Noncoring beveled		—	—
TW-07938-03 TW-07938-13 TW-07938-23	100 µL	Cemented needle Removable needle Luer tip†	22s	Noncoring beveled		—	—
TW-07938-04 TW-07938-14 TW-07938-24	250 µL	Cemented needle Removable needle Luer tip†	22s	Noncoring beveled		—	—
TW-07938-05 TW-07938-15 TW-07938-25	500 µL	Cemented needle Removable needle Luer tip†	22s	Noncoring beveled		—	—

†Luer tip syringes do not include a needle; order separately below.

*An “s” denotes “small bore”—reduces dead volume and provides impedance to improve transfer accuracy.

Syringe Needles

Ideal for chromatography and general use

All needles are made of stainless steel. The noncoring deflected tips are used for septum piercing applications such as gas chromatography. The 90° blunt end tips are used for HPLC injections and pipetting. The noncoring conical needle with side port is ideal for penetration of septa, thin-gauged vinyls and plastics.

Catalog number	Gauge†	Tip type	Qty/pk	Price/pk
Removable-type needles (for volumes from 0.5 µL to 100 µL)				
TW-07938-83	26s	Noncoring	6	
TW-25702-60	26s	90° blunt end	6	
TW-25703-80	26s	Conical	6	
TW-25703-81	22s	Conical	6	
TW-07938-84	22s	Noncoring	6	
TW-25702-61	22s	90° blunt end	6	
TW-25702-62	22		6	
Removable-type needles (for volumes from 250 µL to 10 mL)				
TW-25703-82	26s	Conical	6	
TW-25703-83	22s	Conical	6	
TW-07938-85	22s	Noncoring	6	
TW-07938-86	22		6	
TW-25702-63	22s	90° blunt end	6	
TW-25702-64	22		6	
Luer tip and luer-lock hypodermic needles (with PCTFE hub)				
TW-07938-95	26s	Noncoring	6	
TW-07938-96	26			
TW-25703-84	26s	Conical	6	
TW-25703-85	26			
TW-07938-97	22s	Noncoring	6	
TW-07938-98	22			
TW-25703-86	22s	Conical	6	
TW-25703-87	22			



Noncoring deflected



90° Blunt end



Noncoring conical

†An “s” denotes “small bore”—reduces dead volume and provides impedance to improve transfer accuracy.

Chaney Adapters

These Chaney adapters ensure reproducibility of better than ±1%; use when injections of identical volumes are required. Order the adapter that fits your syringe size.

Cat. no.	For syringe size	Price
TW-07938-80	10 µL volume	
TW-07938-81	25 to 500 µL volumes	

07938-80



Syringe Guides

Use these guides to prevent the syringe plunger from bending or being pulled out of your small-bore syringe.

Cat. no.	For syringe size	Price
TW-07938-75	10 µL volume	
TW-07938-76	25 to 500 µL volumes	

07938-75



Repeating Dispenser

Repeating dispenser delivers 1/50 of total syringe volume with each actuation.

Cat. no.	For syringe size	Price
TW-07939-95	25 µL to 2.5 mL volumes	

07939-95



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Micro-Mate® Syringes

Precision made for accuracy and interchangeability

These durable syringes enable smooth, accurate liquid transfers. High-quality borosilicate glass and exacting manufacture combine for accurate, leak-proof performance and resistance to chemicals and thermal shock.

Graduations are fused onto the syringe barrel and barrel flanges are reinforced. Interchangeable plungers. Needles are not included; order separately at right.



20 cc syringe with a metal luer lock tip 25701-51



10 cc syringe with a metal luer slip tip 25701-52



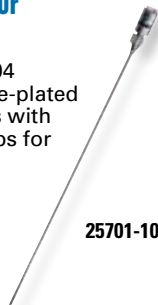
5 cc syringe with a glass luer slip tip 25701-54

Catalog number	Capacity	Graduations	Tip type	Price
TW-25701-55	2 cc	1/10 cc	Glass luer slip tip	
TW-25701-61			Metal luer slip tip	
TW-25701-50			Metal luer lock tip	
TW-25701-54	5 cc	1/5 cc	Glass luer slip tip	
TW-25701-56			Metal luer slip tip	
TW-25701-59			Metal luer lock tip	
TW-25701-53	10 cc	1/5 cc	Glass luer slip tip	
TW-25701-52			Metal luer slip tip	
TW-25701-60			Metal luer lock tip	
TW-25701-58	20 cc	1 cc	Glass luer slip tip	
TW-25701-57			Metal luer slip tip	
TW-25701-51			Metal luer lock tip	

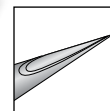
Needles

Choice of tips to meet your syphoning needs

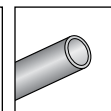
All needles are made of 304 stainless steel with chrome-plated luer hubs. Choose needles with the noncoring deflected tips for your septum piercing applications. Needles with the 90° blunt end tip are ideal for your pipetting needs. Needles fit all Popper syringes on this page.



25701-10



Noncoring deflected tip



90° blunt end tip

Catalog number	Gauge	Length	Tip type	Qty/pk	Price/pk
TW-25701-33	22	4" (10.2 cm)	Noncoring deflected	12	
TW-25701-10		6" (15.2 cm)			
TW-25701-30	20	4" (10.2 cm)	90° blunt end	12	
TW-25701-34		2" (5.1 cm)	Noncoring deflected	12	
TW-25701-31		4" (10.2 cm)			
TW-25701-11		6" (15.2 cm)			
TW-25701-12		12" (30.5 cm)			
TW-25701-20	6" (15.2 cm)	90° blunt end	12		
TW-25701-32	18	4" (10.2 cm)	Noncoring deflected	12	
TW-25701-13		6" (15.2 cm)			
TW-25701-14		12" (30.5 cm)			
TW-25701-21	16	2" (5.1 cm)	90° blunt end	12	
TW-25700-21		4" (10.2 cm)			
TW-25700-22	14	4" (10.2 cm)	90° blunt end	12	
TW-25701-22		6" (15.2 cm)			

Find MORE!

For our entire line of luer and other fittings, see pages 509–575.



Jumbo Syringes

Sample and dispense large volumes in demanding conditions

These syringes efficiently dispense large volumes of corrosive, toxic, and noxious liquids—ideal for environmental sampling and chemical testing applications. The 250-mL syringe is widely used for air sampling work and for liquid metering applications. All jumbo syringes are made of high-quality durable glass and feature large chrome-plated metal luer lock tips. The glass is resistant to thermal shock. Needles are not included; order separately above right.



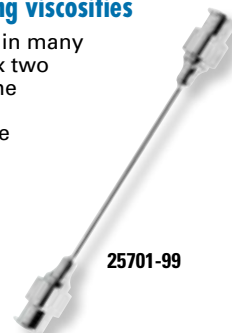
Jumbo syringe 25701-02 (order needles separately above right)

Catalog number	Capacity	Graduations	Type	Price
TW-25701-00	50 mL	2 mL	Luer lock	
TW-25701-01	100 mL	4 mL	Luer lock	
TW-25701-02	250 mL	10 mL	Luer lock	

Micro-Emulsifying Needles

Easily mix two liquids with differing viscosities

Micro-emulsifying needles are used in many applications including allergens. Mix two liquids by locking two syringes on the double hub needle and pump fluids between the two syringes to produce a uniform mixture. Needles are available with or without a reinforcing bar. Use with Popper 5- or 10-cc luer-lock tip glass syringes.



25701-99

Gauge	Length	Qty/pk	Without reinforcing bar		With reinforcing bar	
			Catalog number	Price/pk	Catalog number	Price/pk
25G	2 7/8" (7.3 cm)	4	—	—	TW-25701-76	
22G	2 7/8" (7.3 cm)	4	TW-25701-97		TW-25701-77	
20G	2 7/8" (7.3 cm)	4	TW-25701-98		TW-25701-78	
	1 1/8" (4.7 cm)	4	TW-25701-88		—	—
18G	2 7/8" (7.3 cm)	4	TW-25701-99		TW-25701-79	
	1 7/8" (4.7 cm)	4	TW-25701-89		—	—
16G	2 7/8" (7.3 cm)	4	—	—	TW-25701-80	

Micromatic® Syringe Pipettors

Enables accurate, repetitive dispensing—from a single reservoir!

These syringe pipettors allow maximum flexibility. Use as a syringe or attach the included valve kit and use for your repetitive dispensing tasks. The contoured finger rings and thumb rest allow one-handed operation without fatigue.

All models feature durable spring-loaded syringe assemblies, automatic two-way valves, volumetric adjustments, and automatic return to preset volume. Repetitive accuracy is ±1% of working range.

Syringes are made of borosilicate glass. Handle is chrome-plated brass. All models are fully autoclavable. Order replacement syringes and needles separately from the table.

What's included: syringe, needle, valve kit (valve, sinker, and 30" (76.2 cm) of PVC tubing), and handle.



25700-01

Micromatic syringe pipettor 25700-02 shown with valve kit attached

Catalog number	Syringes		Needles		Length	Tip type	Price/ea	Replacement syringes		Replacement needles	
	Range	Graduations	Type	Gauge				Catalog number	Price/ea	Catalog number	Price/pk of 12
TW-25700-00	0.1 to 1.0 mL	0.02 mL	Luer lock	20	1.5" (3.8 cm)	Blunt end		TW-25700-10		TW-25700-20	
TW-25700-01	0.2 to 2.0 mL	0.1 mL	Luer lock	20	1.5" (3.8 cm)	Blunt end		TW-25700-11		TW-25700-20	
TW-25700-02	0.5 to 5.0 mL	0.2 mL	Luer lock	16	4" (10.2 cm)	Blunt end		TW-25700-12		TW-25700-21	

Manifold for 1.0-mL Syringe Pipettor

This eight-channel, center feed manifold is an ideal accessory for rapid populating of 96-well plates for ELISA, HLA, tissue typing, and other applications. Used with the 1.0-mL syringe pipettor (25700-00) above, this manifold enables precise dispensing of volumes as low as 50 µL per well.

Manifold features all stainless steel construction and includes a cleaning wire to remove residue buildup within the channels.

Catalog number	Description	Price
TW-25701-40	Eight-channel manifold for 1.0-mL syringe pipettor	

Fast, accurate transfer to 96-well plates



Eight-channel manifold 25701-40

Find MORE!

For syringe pumps, see pages 1393-1400.



Cole-Parmer®

Stainless Steel Syringes

Ideal for use in syringe pumps and high-pressure applications

- Syringes fit most syringe pumps
- Made from top quality 316 stainless steel—provides superior chemical resistance
- Designed to handle demanding applications with higher pressures

Stainless steel offers good resistance to most aggressive liquids. Wetted parts are 316 stainless steel and Viton®. Genuine Swagelock® and luer lock end fittings are available. All tips are interchangeable with all syringes (20 to 200 mL) in the series.



Capacity	Syringes with 1/16" Swagelock tip		Syringes with 1/8" Swagelock tip		Syringes with 1/4" Swagelock tip		Syringes with luer lock tip	
	Catalog number	Price	Catalog number	Price	Catalog number	Price	Catalog number	Price
2.5 mL	LZ-74044-00		—	—	—	—	—	—
8 mL	LZ-74044-10		LZ-74044-12		—	—	—	—
20 mL	LZ-74044-20		LZ-74044-22		LZ-74044-24		LZ-74044-26	
50 mL	LZ-74044-30		LZ-74044-32		LZ-74044-34		LZ-74044-36	
100 mL	LZ-74044-40		LZ-74044-42		LZ-74044-44		LZ-74044-46	
200 mL	LZ-74044-50		LZ-74044-52		LZ-74044-54		LZ-74044-56	

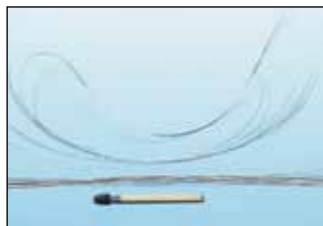


Syringes

Syringe Cleaning Accessories

Fine-Wire Cleaning Kit

Use this kit to clean syringes, needles, and more. Contains ten 0.15-mm stainless steel (SS) wires, ten 0.25-mm SS wires, ten 0.50-mm SS wires, and a pin vise to hold wire during use.



34650-00

Catalog number	Description	Price
TW-34650-00	Fine wire cleaning kit	

Needle Cleaning Kit

Cleaning kit includes 70 mL of cleaning solution and six tubes of assorted cleaning wires.



07938-74

Catalog number	Description	Price
TW-07938-74	Needle cleaning kit	

Syringe Cleaner

Eliminate cross-contamination and peak ghosting. Vaporize hard-to-clean needle residues quickly and easily. Syringe cleaner helps ensure the integrity of your analysis with a 250°C cleaning that requires only 30 seconds and a few pumps of the syringe plunger. Thermostatically controlled unit accepts needles up to 1 mm in diameter and 100 mm long. A vacuum source hookup is recommended for proper operation.



39006-10

Catalog number	Power	Price
TW-39006-10	120 VAC	
TW-39006-12	220 VAC	

Cole-Parmer Touch Screen Syringe Pumps



74905-50

- Control flow rates from 5pL/min to 200 mL/min via the user friendly touch screen display
 - Full touch screen enables you to quickly create configurations—and recall them later
 - Pump can be placed on its side to provide a smaller footprint—touch screen display automatically rotates.
- See page 1393 for more information.

Cole-Parmer Syringe Pumps

Ideal for low-flow, low-pressure applications where precision is needed

- Backlit alphanumeric LCD guides you through setup and operating procedures
- Nonvolatile memory retains settings even after your pump is turned off
- Accurate to ±0.5%



A

74900-00

Pump continuously and automatically delivers exact quantities of liquid.

What's included: a 6-ft (1.8-m) cord with grounded plug (US standard plug on 115 VAC models, European plug on 230 VAC models). More syringes are available; contact your local dealer for details.

A Single-Syringe Infusion Pump features microprocessor motor control and precision gearing. Microprocessor automatically selects display units based on syringe used. Obtain precise flow rates down to 0.2 µL/hr. A wide dynamic range (6000:1) provides excellent flexibility. All commands can be programmed via the front-panel keypad. Settings can be changed while the pump is running.

Specifications

Accuracy: ±0.5% **Syringe travel rate:** 9.5 x 10⁻⁶ mm/min
Reproducibility: ±0.2% **Linear force:** 20 lb
Syringe sizes accepted: 10 µL to 60 mL

Cat. no.	Flow rate	Dimensions (W x H x D)	Power (VAC, Hz)	Price
A LZ-74900-00	0.2 µL/hr	9" x 4" x 6"	115, 50/60	
LZ-74900-05 [†]	to 500 mL/hr	(22.9 x 10.2 x 15.2 cm)	230, 50/60	

[†]CE marked.

B Multi-Syringe Pumps achieve flow rates down to 0.001 µL/hr. A wide dynamic range (100,000:1) allows flow rates to vary from a slow trickle to a steady stream.

Program infusion/withdrawal pumps to sequence operations: either withdrawal followed by infusion or infusion followed by withdrawal. Simple keypad allows you to easily setup and sequence operation of the pump.

Pumps can be controlled from a computer with RS-232 interface[‡]. Pumps feature two TTL inputs and two TTL outputs. The TTL inputs allow for a foot switch or a process timer to control pump operation. Use TTL outputs for 5 V signal and run indicator.

Specifications

Accuracy: ±0.5% **Syringe travel rate:** 9.5 x 10⁻⁶ mm/min
Reproducibility: ±0.2% **Linear force:** 40 lb
Syringe sizes accepted: 10 µL to 140 mL **Output:** RS-232

Catalog number	Description	Flow rate per syringe	Power (VAC, Hz)	Price
B Dual-syringe pumps measure (W x H x D) 11" x 5" x 9 1/4" (27.9 x 12.7 x 23.5 cm)				
LZ-74900-10		0.001 µL/hr to 147 mL/min	115, 50/60	
LZ-74900-15 [†]	Infusion	0.001 µL/hr to 147 mL/min	230, 50/60	
LZ-74900-20		0.001 µL/hr to 147 mL/min	115, 50/60	
LZ-74900-25 [†]	Infusion/withdrawal	0.001 µL/hr to 147 mL/min	230, 50/60	
B Ten-syringe pumps measure (W x H x D) 11" x 6" x 12" (27.9 x 15.2 x 30.5 cm)				
LZ-74900-30		0.001 µL/hr to 147 mL/min	115, 50/60	
LZ-74900-35 [†]	Infusion	0.001 µL/hr to 147 mL/min	230, 50/60	
LZ-74900-40		0.001 µL/hr to 147 mL/min	115, 50/60	
LZ-74900-45 [†]	Infusion/withdrawal	0.001 µL/hr to 147 mL/min	230, 50/60	

[†]CE marked

[‡]Order RS-232 cables separately online or call our Application Specialists.