



Fluid Dispensing Products Guide



About Techcon

Techcon Systems was established in 1961 to service industrial manufacturing markets and has continued to be a leader in fluid dispensing systems.

In 1996 OK International acquired Techcon. This strategy provided Techcon with a strong global sales channel, with direct subsidiaries and distributors in North America, Europe and Asia.

Today, Techcon Systems represents OK International's Industrial Products Division. Currently focusing on fluid dispensing systems, Techcon's components are used in medical, automotive, telecommunications, aerospace and industrial applications throughout the world, helping improve manufacturing processes and increase customers' bottom lines.

Techcon offers a wide array of fluid dispensing products and provides dispensing components ranging from disposable accessories to complete microprocessor-controlled dispensing systems, and precision valves.

Whether your goal is cost savings or process improvement, we can tailor a solution for your application.





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Application Table of Contents

Find the right products for your applications



1. Bonding With Cyanoacrylate Application

CA is a very frequently used adhesive in the generic bonding application and it is required in a moisture resistant dispensing system. The TS5622VU Diaphragm valve along with the TS500R controller and TS1258 pressure pot is a perfect system for this application.

TS5622VU (page 15), TS500R (page 11), TS1258 (page 19)



2. Domed Logo Badges Application (Doming)

Consumer and business products often display the manufacturer's name on a sticker that is encapsulated underneath a dome of fluid. This is called "Doming" and is commonly used as this adds a better "look and feel" to the product. The TS5622VU-DVD with the TS500R controller and TS1258 pressure pot is a perfect system for this application.

TS5622VU-DVD (page 15), TS500R (page 11), TS1258 pressure pot (page 19)



3. Microdot Adhesive Dispensing

Most medical device manufacturing applications require a dispensing system that can provide a highly repeatable dispensing of UV adhesives. With the unique needle shut off design inside the dispensing tip, the TS5440 Microshot needle valve is the perfect choice for these applications. The TS500R controller is recommended for this valve.

TS5440 Microshot needle valve (page 16), TS500R controller (page 11)



4. Spray Conformal Coating Application

The TS5540 Series spray valve along with the TS500R controller and the TS1258 pressure pot is an ideal system to spray conformal coating material on the surface of an assembled printed circuit board to provide protection against moisture, dust and corrosion from extreme environments.

TS5540 Series spray valve (page 14), TS500R controller (page 11), TS1258 pressure pot (page 19)



5. Gasketing Application

When a high throughput or large shot size is required for gasketing or similar "Form-in-place-gasket" applications, the TS941 Series spool valve along with the TS350 controller is the recommended system choice. Whether the fluid is fed from a cartridge or pail pump, the TS941 Series will dispense accurately and consistently through a dispensing nozzle or dispensing tip.

For finer deposit control of sealing material, the TS5322 Series mini spool valve with the TS350 controller is recommended.

**TS941 Series spool valve (page 17), TS350 controller (page 3),
TS5322 Series mini spool valve (page 17)**



6. Dam Writing Application

The TS5000 Series rotary valve along with the TS500R controller is an ideal dispensing system to dispense the "Dam" around the die of an integrated circuit (i.c.) as an alternative method to using the pre-form molded design.

TS5000 Series rotary valve (page 12), TS500R controller (page 11)

7. Plural Component Material Dispensing

Plural component material dispensing is no longer a problem when using a Disposable Material Path valve. When the 2-component material starts to cure, just throw away the valve wetted parts. It takes less than 1 minute to replace new parts.

For low viscosity material, the TS1212 pinch tube valve along with the TS350 controller is recommended. For medium to high viscosity material with high repeatability rate requirement, the TS5000DMP valve with the TS500R controller is suitable.

**TS1212 pinch tube valve (page 18), TS350 controller (page 3),
TS5000DMP valve (page 12), TS500R controller (page 11)**

8. Solder Paste Dispensing

Solder paste is the most difficult material to dispense. The TS5000 Series rotary valve is designed specifically to dispense solder paste without clogging and separation. Dot size as small as 0.010" (0.254mm) can be dispensed consistently. A majority of automated dispensing systems incorporate the TS5000 Series valve for solder paste dispensing.

TS5000 Series rotary valve (page 12)



TS250 Series Digital Dispenser/Controller

The TS250 Series Dispenser/Controller dispenses low, medium and high-viscosity fluids accurately and consistently. These systems are economical, highly accurate and repeatable micro-air dispensing systems. These user friendly fluid dispensing systems include digital timer with rotary control time knob for easy setup, and a vacuum control for all viscosities of fluids.

Packaged ready to use with a universal power supply, foot switch, air hose, sample tips, syringe barrel and adapter. Features a small footprint and is lightweight.

Available in two versions of operating pressure: 0 to 100 psi (0-6.9 bar) for general applications, and 0 to 15 psi (0-1.0 bar) for specific low viscosity applications.

Part Number	Description
TS250 Dispenser/Controller	0-100 psi (0-6.9 bar)
TS255 Dispenser	0-15 psi (0-1.0 bar)

Specifications	TS250 Series	TS350 Series
Cabinet Dimensions:	6"W x 6.5"L x 7.0"H 152mm x 165mm x 178mm	6"W x 6.5"L x 7.0"H 152mm x 165mm x 178mm
Weight:	2.6 lb. (1.2 kg)	2.6 lb. (1.2 kg)
Cycle Rate:	600 cycle/minute	1200 cycle/minute
Timing Range:	0.020-60.000 seconds	0.008-60.000 seconds
Timing Tolerances:	+/- 0.001%	+/- 0.001%
Input Voltage:	100-240 VAC	100-240 VAC
Input Frequency:	50-60 Hz	50-60 Hz
Cycle Mode:	TIMED, PURGE	TIMED, INTERRUPT, TEACH, PURGE
Meets or exceeds:	CE, TUV-GS and NRTL	CE, TUV-GS and NRTL
Warranty:	1 year	1 year



TS350 Series Digital Dispenser/Controller

The TS350 Series Dispenser/Controller is equipped with digital timer, pressure and vacuum read out on a large LCD. The firmware provides the option of programming up to 10 varied, sequenced or individual shots. It is intuitive to use, dispenses low, medium and high-viscosity fluids accurately and consistently.

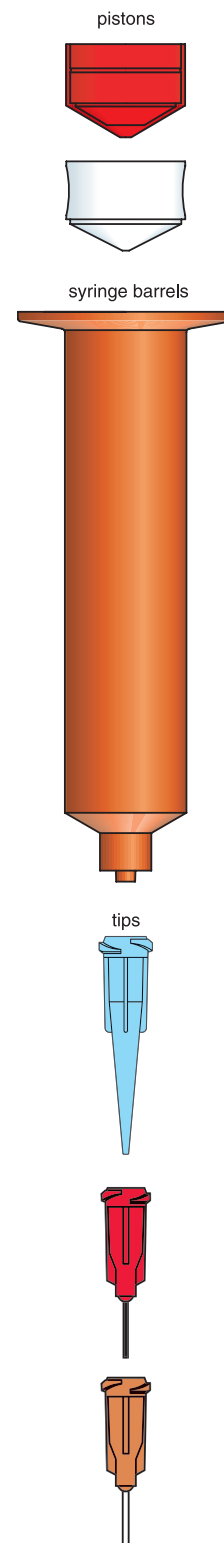
The TS350/355 Series includes a vacuum-driven "suck-back" to control material "tailing" and waste and to control drips of fluid between dispense cycles. These systems have user programmable manual (purge) and automatic dispense cycle settings (program and time) and they feature a "Teach Mode" for determining the dispensing time required when dispensing output is unknown.

Packaged ready to use with a universal power supply, foot switch, air hose, sample tips, syringe barrel and adapter. Features a small footprint and is lightweight.

Available in two versions of operating pressure: 0 to 100 psi (0-6.9 bar) for general applications, and 0 to 15 psi (0-1.0 bar) for specific low viscosity applications.

Part Number	Description
TS350 Dispenser/Controller	0-100 psi (0-6.9 bar)
TS355 Dispenser	0-15 psi (0-1.0 bar)





700 Series Dispensing Components

Our 700 Series Premier dispensing components are silicone and chloride free and designed to work with industry standard equipment. 700 Series dispensing components ensure accuracy, repeatability and productivity. Bulk packages are available.

700 Series Syringe Barrels

Unique ultra-low draft construction of inner diameter yields high accuracy and stability. They are comprised of industry compliant silicone and chloride free, low friction polypropylene. Available in three different colors: Natural for most generic applications, amber provides protection of UV/visible light block (up to 520nm), but with the ability to see material inside the barrel; and black for total light block. Sold in bulk packages.

SIZE	NATURAL	AMBER	BLACK
3 cc	7030LL1N-1000	7030LL1D-1000	7030LL1B-1000
5 cc	7050LL1N-1000	7050LL1D-1000	7050LL1B-1000
10 cc	7100LL1N-1000	7100LL1D-1000	7100LL1B-1000
30 cc	7300LL1N-500	7300LL1D-500	7300LL1B-500
55 cc	7550LL1N-250	7550LL1D-250	7550LL1B-250

700 Series Air Powered Pistons

Spread the pressure evenly across product, using a piston, for consistent dispensing of even high viscosity products. Wiper Pistons (white) provide a seal for low to medium viscosity fluids. Straight Wall Pistons (red) are recommended for reduced stringing with medium to high viscosity products. Sold in bulk package of 1000. Made from polyethylene.

SIZE	Wiper Piston (White)	Straight Wall (Red)
3 cc	7030009W-1000	7030006R-1000
5 cc	7050009W-1000	7050006R-1000
10 cc	7100009W-1000	7100006R-1000
30 - 55 cc	7300009W-1000	7300006R-1000

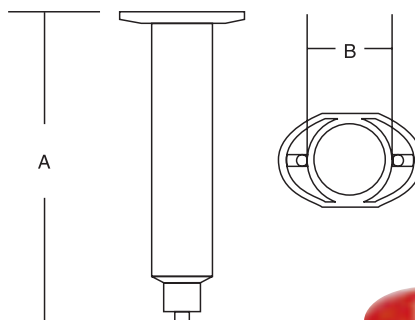
700 Series Syringe Barrel Kits

For your convenience these syringe barrels and pistons are packaged together without pistons inserted. Sold in bulk package (syringe barrel and corresponding Wiper Piston).

SIZE	NATURAL	AMBER	BLACK
3 cc	7030LL1NW-1000	7030LL1DW-1000	7030LL1BW-1000
5 cc	7050LL1NW-1000	7050LL1DW-1000	7050LL1BW-1000
10 cc	7100LL1NW-1000	7100LL1DW-1000	7100LL1BW-1000
30 cc	7300LL1NW-500	7300LL1DW-500	7300LL1BW-500
55 cc	7550LL1NW-250	7550LL1DW-250	7550LL1BW-250

700 Series Syringe Barrel Dimensions

CAPACITY	Overall Length A inches/mm	Outside Diameter B inches/mm
3 cc	2.96/75.18	0.46/11.56
5 cc	2.83/71.9	0.59/14.99
10 cc	3.58/90.9	0.72/18.29
30 cc	4.66/118.36	0.99/25.15
35 cc	6.91/175.51	1.01/25.65



New! Easy Flow Blue Piston Series

Designed with close tolerances to precisely fit inside the syringe barrel, the Easy Flow Blue Series Piston requires less pressure to dispense fluids consistently and prevent air from becoming trapped during the dispensing process. Sold in bulk package of 1000.

SIZE	Easy Flow Piston (Blue)
3 cc	7030007BL-1000
5 cc	7050007BL-1000
10 cc	7100007BL-1000
30 - 55 cc	7300007BL-1000



700 Series Tip Cap

Designed to seal the syringe barrel tip during storage and shipment. Fits all syringe barrel sizes. Sold in bulk package of 1000. Made from polypropylene.

Part No.	Description
7015LL-1000	700 Tip Cap Double Helix Thread Orange
TE7015LB-1000	700 Tip Cap Double Helix Thread Black



700 Series End Caps

Designed to seal large end of the syringe barrel to ensure no contaminants come in contact with material during storage and shipment. Sold in bulk package of 1000. Made from polypropylene.

SIZE	END CAP
3 cc	703000CR-1000
5 cc	705000CR-1000
10 cc	710000CR-1000
30/55 cc	730000CR-1000



700 Series Receiver Head Assembly

Receiver Head Assemblies are the connecting link between time/pressure controllers and syringe assemblies. These assemblies provide a safe connection for accident proof dispensing. Available with 3 or 6 feet of tubing. Consists of receiver head with O-ring, tubing and male quick connector. Sold individually. Made of Delrin®.

SIZE	3' HOSE	6' HOSE	NO HOSE
3 cc	70303RHB	70306RHB	70300RHR
5 cc	70503RHB	70506RHB	70500RHR
10 cc	71003RHB	71006RHB	71000RHR
30/55 cc	73003RHB	73006RHB	73000RHR

Replacement O-rings for Receiver Head

Sold in packs of 10.

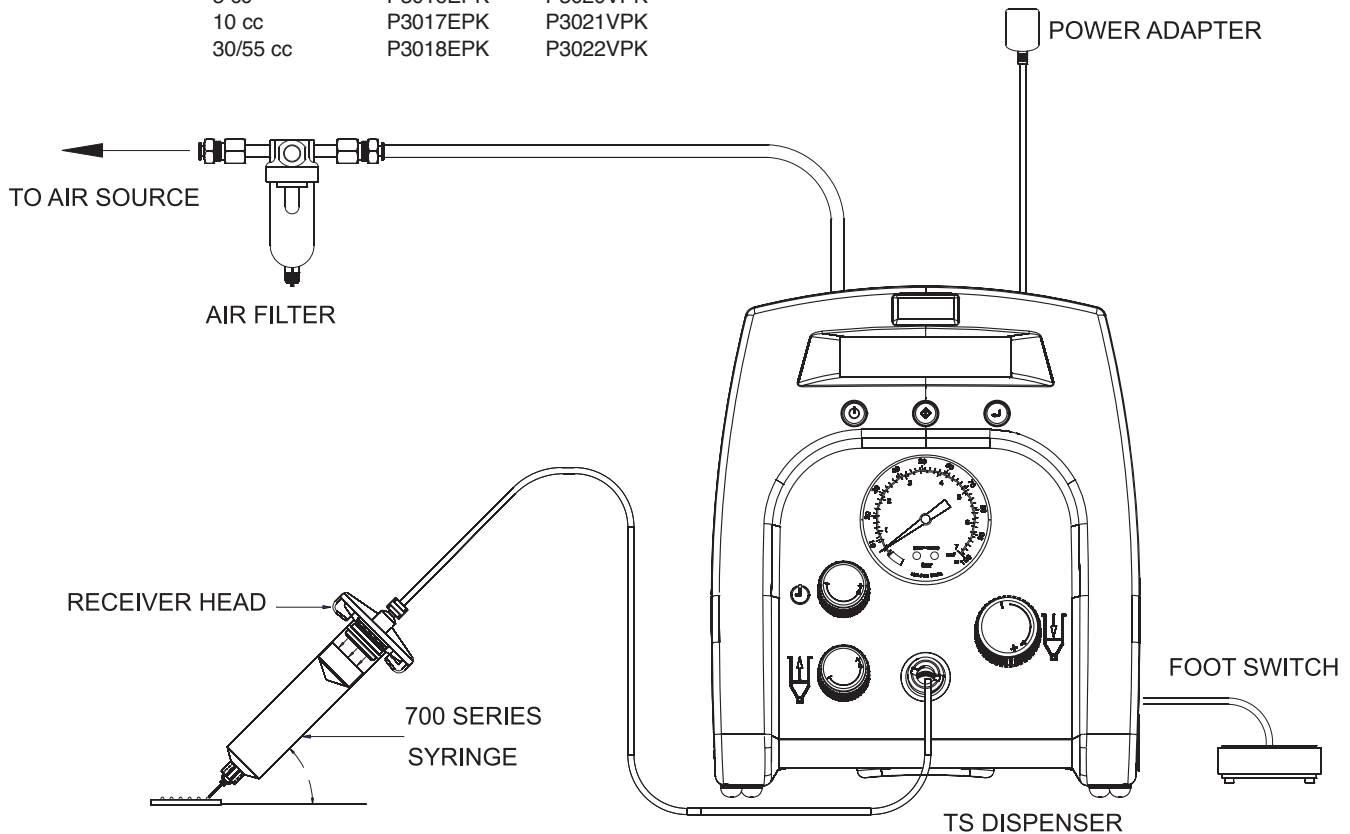
Receiver Head Size	EPR O-ring	Viton O-ring
3 cc	P3015EPK	P3019VPK
5 cc	P3016EPK	P3020VPK
10 cc	P3017EPK	P3021VPK
30/55 cc	P3018EPK	P3022VPK

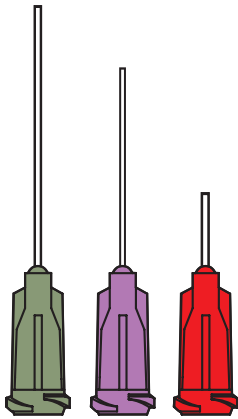


TS700 Series Manual Syringe Gun

Lightweight syringe barrel applicator gun provides excellent control for medium/high viscosity products. Easy to use. No dripping or mess.

SIZE	MANUAL SYRINGE GUN
10 cc	TS710SG
30 cc	TS730SG



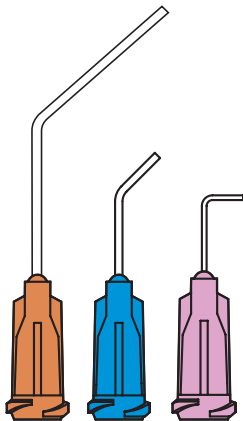


TE Dispensing Tips

The TE series consist of a stainless-steel cannula with a double helix polypropylene hub.

This premium line of dispensing tips is burr-free, and has an electro-polished cannula for unobstructed and consistent material flow. In addition, they are silicone and chloride free. Sold in bulk pack of 1000.

Gauge	1/4" (6.35mm)	1/2" (12.7mm)	1" (25.4mm)	1-1/2" (38.1mm)
14		TE714050-1000	TE714100-1000	TE714150-1000
15		TE715050-1000	TE715100-1000	TE715150-1000
18	TE718025-1000	TE718050-1000	TE718100-1000	TE718150-1000
20	TE720025-1000	TE720050-1000	TE720100-1000	TE720150-1000
21	TE721025-1000	TE721050-1000	TE721100-1000	TE721150-1000
22	TE722025-1000	TE722050-1000	TE722100-1000	TE722150-1000
23	TE723025-1000	TE723050-1000	TE723100-1000	TE723150-1000
25	TE725025-1000	TE725050-1000		
27	TE727025-1000	TE727050-1000		
30	TE730025-1000	TE730050-1000		
32	TE732025-1000			



TE Bent Dispensing Tips

These TE bent tips are precision bent at 45° and 90° angles. Perfect for dispensing fluid in hard to reach places. Sold in packs of 50.

Gauge	1/2" (12.7mm)		1-1/2" (38.1mm)
	90°	45°	
14	TE714050B90PK	TE714050B45PK	TE714150B45PK
15	TE715050B90PK	TE715050B45PK	
18	TE718050B90PK	TE718050B45PK	TE718150B45PK
20	TE720050B90PK	TE720050B45PK	
21	TE721050B90PK	TE721050B45PK	TE721150B45PK
22	TE722050B90PK	TE722050B45PK	
23	TE723050B90PK	TE723050B45PK	
25	TE725050B90PK	TE725050B45PK	
27	TE727050B90PK	TE727050B45PK	
30	TE730050B90PK	TE730050B45PK	

Color Coding and Gauge

For TE Series and TE Bent Dispensing Tips.

Color	Gauge	I.D. (inches)	I.D. (mm)
Olive	14	0.063	1.600
Amber	15	0.054	1.371
Green	18	0.033	0.838
Pink	20	0.024	0.610
Purple	21	0.020	0.508
Blue	22	0.016	0.406
Orange	23	0.013	0.330
Red	25	0.010	0.254
Clear	27	0.008	0.203
Lavender	30	0.006	0.152
Yellow	32	0.004	0.102

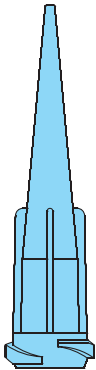
New! Teflon® Lined Tips

Teflon® lined tips are ideal for use with low viscosity fluids and cyanoacrylates (super glue) material. Benefits of using this new tip include resist cyanoacrylate clogging and prevent damage to substrates.

Teflon® lined series tip features a double helix polypropylene color hub and a rigid Teflon® crimped lining that projects approximately 1/8" (3.17mm) from the inside of a stainless steel tube. Sold in packs of 50.

Gauge	PTFE Lined TT Needle
20	TF720100PK
25	TF725100PK





TT Dispensing Tips

These tips are molded in high density polyethylene with UV light block additive and include a double helix Luer lock hub. The tapered tip prevents blockage and increases the flow of high viscosity materials. Sold in bulk package of 1000.

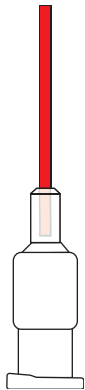
Gauge	Color	TT Dispensing Tips
14	Olive	TT14-DHUV-1000
16	Grey	TT16-DHUV-1000
18	Green	TT18-DHUV-1000
20	Pink	TT20-DHUV-1000
22	Blue	TT22-DHUV-1000
25	Red	TT25-DHUV-1000
27	Clear	TT27-DHUV-1000



BT Series

Use these double helix Brush Tips for “spread” applications such as glues and other materials. Soft brush is made of Red Sable. Stiff brush is made of Nylon. Available in package of 12.

Gauge	Soft Bristle	Stiff Bristle
16	BT16-SOFTPK	BT16-STIFFPK
18	BT18-SOFTPK	BT18-STIFFPK
22	BT22-SOFTPK	BT22-STIFFPK



TS-P Plastic Dispensing Tips

Flexible tips allow access to hard to reach areas and allow you to “customize” the length. Ideal for CA applications. 1 1/2" length. Sold in bulk package of 500. Made from polypropylene.

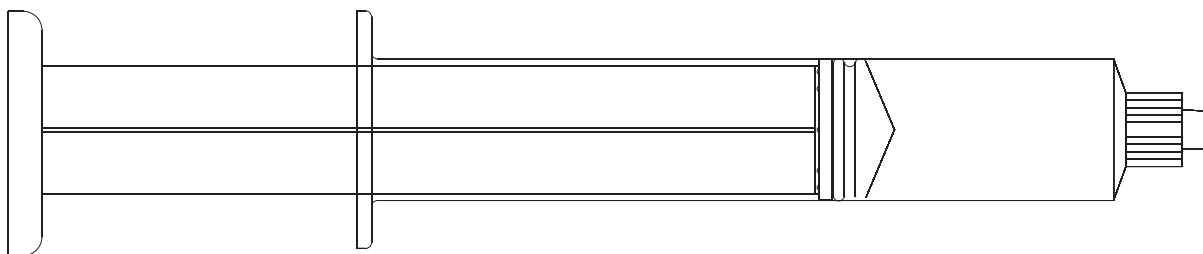
Gauge	Color	TS-P Dispensing Tips
15	Grey	TS15P-1-1/2-500
16	Brown	TS16P-1-1/2-500
18	Pink	TS18P-1-1/2-500
20	Yellow	TS20P-1-1/2-500
22	Black	TS22P-1-1/2-500
25	Red	TS25P-1-1/2-500



Dispensing Tip Kit

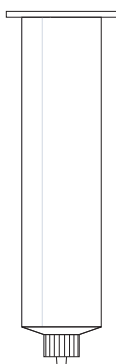
Decide for yourself which tip to use. This kit contains a variety of the most popular 700 Series tips to let you test different tips to find the ones that fit your needs.

Part No.	Description
TN00DKIT	Dispensing Tip Kit



400 Series Disposable Dispensing Components

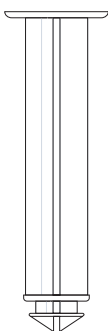
The 400 Series disposable syringes and components are available in a variety of styles to meet a wide range of applications. Sold in bulk packages only.



Syringe Barrels

Barrels are molded from polypropylene. Standard style is Luer lock. Luer slip and taper tip styles are also available, however minimum quantity, lead time and pricing considerations apply. In Natural color only (for black and amber refer to page 4).

Part No.	Description
F401L-1	400 Syringe Barrel 1cc Luer Slip
403LL-1	400 Syringe Barrel 3cc Luer Lock
406LL-1	400 Syringe Barrel 6cc Luer Lock
410LL-1	400 Syringe Barrel 10cc Luer Lock
435LL-1	400 Syringe Barrel 35cc Luer Lock
460LL-1	400 Syringe Barrel 60cc Luer Lock



Plungers

Part No.	Description
401L-4	1cc Plunger
403L-4	3cc Plunger
406L-4	6cc Plunger
410L-4	10cc Plunger
435L-4	35cc Plunger
460L-4	60cc Plunger



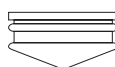
Tip Caps

Part No.	Description
15LL	Luer Lock Tip Cap
15LL-B	Black Luer Lock Tip Cap



End Caps

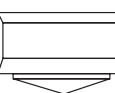
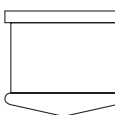
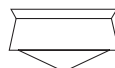
Part No.	Description
TS5	6cc End Cap
TS7	10cc End Cap



Stoppers

Rubber stoppers listed are not lubricated. For lubricated stoppers add -LUB to the part number.

Part No.	Description
401L-2	1cc Rubber Stopper, Manual
403L-2	3cc Rubber Stopper, Manual
406L-2	6cc Rubber Stopper, Manual
410L-2	10cc Rubber Stopper, Manual
435L-2	35cc Rubber Stopper, Manual
460L-2	60cc Rubber Stopper, Manual
403L-7	3cc Plastic Wiper Stopper, Manual
406L-7	6cc Plastic Wiper Stopper, Manual
410L-7	10cc Plastic Wiper Stopper, Manual
435L-7	35cc Plastic Wiper Stopper, Manual
401L-2	1cc Rubber Stopper, Air Powered
403L-2	3cc Rubber Stopper, Air Powered
406L-8	6cc Rubber Stopper, Air Powered
410L-8	10cc Rubber Stopper, Air Powered
435L-8	35cc Rubber Stopper, Air Powered
403L-9	3cc Plastic Wiper Stopper, Air Powered
406L-9	6cc Plastic Wiper Stopper, Air Powered
410L-9	10cc Plastic Wiper Stopper, Air Powered
435L-9	35cc Plastic Wiper Stopper, Air Powered
460L-9	60cc Plastic Wiper Stopper, Air Powered



Receiver Head Assemblies

The connecting link between time/pressure controllers and syringe assemblies, Receiver Head Assemblies provide a safe connection between receiver head and syringe barrel for accident proof dispensing. Receiver Head Assemblies come with no tubing (-R), 3 feet of tubing (-3) or 6 feet of tubing (-6).



400 Series Receiver Head Assemblies

Part No.	Size
900-250-3, -6 or -R	1cc
900-350-3, -6 or -R	3cc
900-550-3, -6 or -R	6cc
900-650-3, -6 or -R	10cc
900-950-3, -6 or -R	35cc
900-1150-3, -6 or -R	60cc

400 Series Manual Syringe Components

Syringe barrels and plungers are molded from polypropylene; stoppers are molded from polyethylene (-7) or thermoplastic rubber (-2). Plunger locks to the stopper for smooth, controlled manual dispensing. Use of a tip cap will seal the delivery end of the syringe barrel when not dispensing.

Manual Syringes with Rubber Stoppers

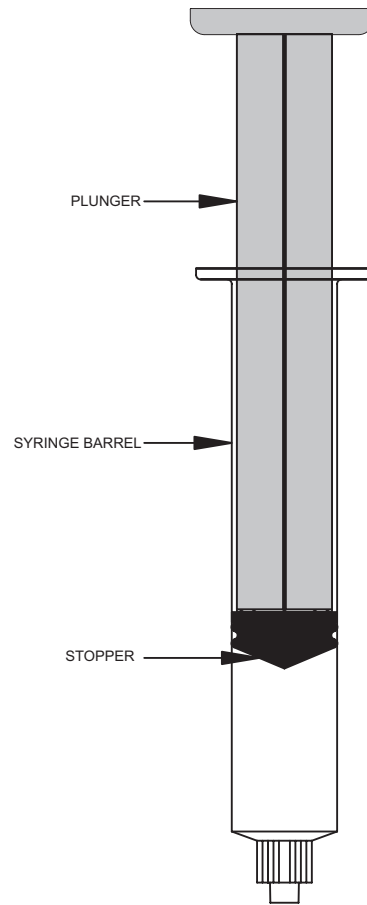
Barrels and plungers are molded from polypropylene. Stoppers are molded from thermoplastic rubber.

Size	Syringe	Stopper	Plunger
1cc	F401L-1	401L-2	401L-4
3cc	403LL-1	403L-2	403L-4
6cc	406LL-1	406L-2	406L-4
10cc	410LL-1	410L-2	410L-4
35cc	435LL-1	435L-2	435L-4
60cc	460LL-1	460L-2	460L-4

Manual Syringes with Plastic Stoppers

Barrels and plungers are molded from polypropylene. Stoppers are molded from polyethylene for better chemical compatibility.

Size	Syringe	Stopper	Plunger
3cc	403LL-1	403L-7	403L-4
6cc	406LL-1	406L-7	406L-4
10cc	410LL-1	410L-7	410L-4
35cc	435LL-1	435L-7	435L-4



SE Series Dispensing Tips

The SE Series Dispensing Tips offer solid dispensing performance at an economical price. Made for all general dispensing applications, the SE tips have an epoxy bonded cannula as well as the same burr-free tips found in the premium TE Series.



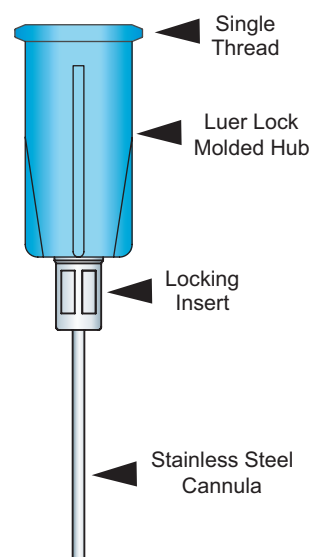
Part Number	Hub Color	Gauge	I.D. (inches)	I.D. (mm)	Length (inches)	Length (mm)
SE414050-1000	Olive	14	0.063	1.60	0.50	12.7
SE414100-1000	Olive	14	0.063	1.60	1.00	25.4
SE415050-1000	Amber	15	0.054	1.37	0.50	12.7
SE415100-1000	Amber	15	0.054	1.37	1.00	25.4
SE416050-1000	Grey	16	0.047	1.19	0.50	12.7
SE416100-1000	Grey	16	0.047	1.19	1.00	25.4
SE418050-1000	Green	18	0.033	0.84	0.50	12.7
SE418100-1000	Green	18	0.033	0.84	1.00	25.4
SE419050-1000	Black	19	0.028	0.71	0.50	12.7
SE419100-1000	Black	19	0.028	0.71	1.00	25.4
SE420050-1000	Pink	20	0.024	0.61	0.50	12.7
SE420100-1000	Pink	20	0.024	0.61	1.00	25.4
SE421050-1000	Purple	21	0.020	0.51	0.50	12.7
SE422050-1000	Blue	22	0.016	0.41	0.50	12.7
SE423050-1000	Orange	23	0.013	0.33	0.50	12.7
SE425050-1000	Red	25	0.010	0.25	0.50	12.7
SE427050-1000	Clear	27	0.008	0.20	0.50	12.7

TS Series Dispensing Tips

The TS Series Dispensing Tips offer a variety of dispensing performance and flexibility options. Stainless steel tubing is cut to precise lengths and ground to be burr-free. Cut tubing is crimped into aluminum locking insert, then molded into polyethylene hubs. Molded hub colors correspond to gauge size. All TS Series tips secure to Techcon Systems syringe barrels and correspond to the Luer lock specification.



Part Number	International Hub Color	Gauge	I.D. (inches)	I.D. (mm)	Length (inches)	Length (mm)
TS18-1/2-1000	Pink	18	0.033	0.838	0.5	12.7
TS18-1-1000	Pink	18	0.033	0.838	1.0	25.4
TS19-1/2-1000	Brown	19	0.028	0.711	0.5	12.7
TS19-1-1000	Brown	19	0.028	0.711	1.0	25.4
TS20-1/2-1000	Yellow	20	0.024	0.609	0.5	12.7
TS20-1-1000	Yellow	20	0.024	0.609	1.0	25.4
TS21-1/2-1000	Green	21	0.020	0.508	0.5	12.7
TS21-1-1000	Green	21	0.020	0.508	1.0	25.4
TS22-1/2-1000	Black	22	0.016	0.406	0.5	12.7
TS22-1-1000	Black	22	0.016	0.406	1.0	25.4
TS23-1/4-1000	Blue	23	0.013	0.330	0.25	6.35
TS23-1/2-1000	Blue	23	0.013	0.330	0.5	12.7
TS23-1-1000	Blue	23	0.013	0.330	1.0	25.4
TS25-1/2-1000	Blue	25	0.010	0.254	0.5	12.7
TS26-1/4-1000	Beige	26	0.010	0.254	0.25	6.35
TS26-1/2-1000	Beige	26	0.010	0.254	0.5	12.7
TS26-1-1000	Beige	26	0.010	0.254	1.0	25.4
TS27-1/4-1000	Grey	27	0.008	0.203	0.25	6.35
TS30-1/4-1000	Lavender	30	0.006	0.152	0.25	6.35
TS30-5/16-1000	Lavender	30	0.006	0.152	5/16	7.94
TS30-1/2-1000	Lavender	30	0.006	0.152	0.5	12.7



TS-M Metal Dispensing Tips

This series consists of a stainless steel cannula and aluminium hub. Sold in bulk quantity of 500.

Part Number	Hub Material	Gauge	Length (inches)	Length (mm)
TS14-1/2M-500	Aluminum	14	0.5	12.7
TS14-1M-500	Aluminum	14	1.0	25.4
TS14-2M-500	Aluminum	14	2.0	50.8
TS15-1/2M-500	Aluminum	15	0.5	12.7
TS15-1M-500	Aluminum	15	1.0	25.4
TS15-1-1/2M-500	Aluminum	15	1.5	38.1
TS16-1M-500	Aluminum	16	1.0	25.4



TS500R Multi-Purpose Digital Controller

Cost-Effective and Productivity-Focused Multi-Purpose Digital Controller

The TS500R is the first of its type in the industry and is capable of controlling all of Techcon Systems valve series including: Pneumatic Valves, Spray Valves and Rotary Auger Valves.

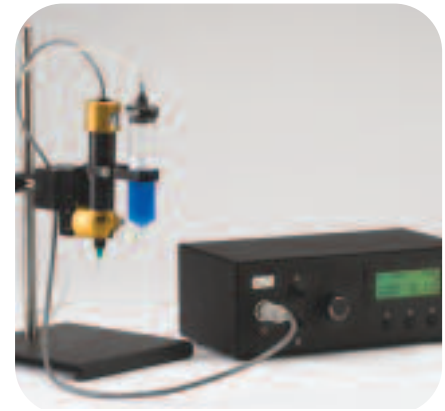
With a universal power supply, it is a fully 'plug and play' system and can be used immediately, anywhere in the world, with its accompanying tools and accessories. This system uses a highly responsive air pressure management system, coupled with a digital timing circuit and display, to provide consistent, repeatable control of all types of valves.

Key Features:

- Universal power supply with snap-on plug
- Clear 20 x 4 segments LCD display
- Classic "Rack Mount" rectangular design
- Digital timing from 0.008-60.000 seconds
- Digital pressure display in "psi" and "bar"
- +/- 0.001% Repeat timing tolerances
- 10 Programmable memories
- Adjustable low pressure alarm setting
- Controls all Pneumatic, Spray and Rotary Auger Valves (inc. Encoder Motor Valves)

Specifications:

Cabinet Dimensions:	10.0"W x 7.5"D x 4.0"H (254mm x 191mm x 102mm)
Weight:	5.8 lb. (2.6 kg)
Cycle Rate:	900 cycle/minute
Timing Range:	0.008-60.000 seconds
Timing Repeat Tolerances:	+/- 0.001%
AC Adaptor Input Voltage:	100-240 V
AC Input Frequency:	50-60 Hz
Cycle Mode:	Timed Mode, Teach Mode, Purge Mode
Meets or exceeds:	CE, TUV-GS and NRTL
Warranty:	2 years





TS5000DMP - performing underfill.



Optional encoder motors are available for closed loop feed back requirement.



TS5000DMP Right hand opening. Left and front door opening also available.



TS5000 Disposable path available in 3 different pitches, and with 3 different rotating Luer collars.



	Disposable Path Material	Rotating Luer Collars
6 Pitch	DMP6-10	DMP6R-10
8 Pitch	DMP8-10	DMP8R-10
16 Pitch	DMP16-10	DMP16R-10

Sold in pack of 10.

TS5000 Rotary Microvalve

The Rotary Valves use a rotary feed screw (auger) to dispense fluid with a positive displacement action, allowing for ultra-precise control of the dispensing process. The unique design ensures that material is constantly present at the feed screw inlet, while the controlled rotation of the feed screw moves the material from the feed to the discharge point. Discrete control of the forward and reverse rotations of the feed screw controls the amounts of material discharged.

The TS5000 Series offers a comprehensive range of options including motors with 2 different wattages, 3 reduction ratios and an encoding option. There are 4 different choices for body material and 12 choices of feed screws. This variety enables you to make the correct valve selection for any application.

The unique DMP (Disposable Material Path) Valve (TS5000DMP) offers a choice of 3 different feed screw sizes (6, 8 and 16-pitch), all made of Delrin®. The DMP Valve has a hinged doorway that opens easily so the disposable auger can be removed and replaced within seconds, while the line is still in operation, significantly reducing downtime and waste. The choice of left, right or center hinge openings makes the valve suitable for mounting on most automated systems.

Typical Applications:

Solder paste, die attach, surface mount adhesive, chip encapsulation, dam writing.

Key Features:

- Precise and consistent shot sizes
- Motor reverse capability
- Field replaceable wetted parts (for DMP version)
- Adjustable dispense rate
- Wide variety of configurations

	TS5000 6 Watt Valve	TS5000DMP
Length:	5.38" (137mm)	5.88" (149mm)
Width:	2.45" (62mm)	3.56" (90mm)
Weight:	0.6 lb. (270 g)	0.77 lb. (350 g)
Wetted Parts:	Depending on exact configuration	Delrin®, Viton®, Nylon

Max Fluid Pressure	30 psi (2.1 bar)
Material Inlet:	Female Luer Lock
Material Outlet:	Male Luer Lock
Wetted Parts:	Depending on exact configuration
Mounting:	1.0" (25.4mm) Wide Channel
Recommended Viscosity Range:	30K - 1300K cps



TS7000 Interchangeable Material Path (IMP) Rotary Valve

The TS7000 Series IMP Rotary Valves are the latest additions to the Rotary Microvalve family. The valve uses a feed screw (auger) to dispense fluid with a rotary displacement action, allowing ultra-precise control of the dispensing process. The valve's modular design allows quick and easy replacement of the feed screw/chamber cartridge assembly without removing the valve from the machine. In addition, the valve cartridge can be interchanged to use with TS5000DMP feed screw inserts.

The TS7000 Series IMP valve is available in 3 choices of feed screw sizes (16-pitch, 8-pitch and high output 8-pitch), all made of precision hardened stainless steel. An encoder motor version is available for applications that require closed-loop motor control with encoder feed back.

Typical Applications:

Solder Paste, Die Attach, Surface Mount Adhesive (SMA), Chip Encapsulation, Dam Writing, Thermal Grease.

Recommended Controller:

TS500R Digital Controller

Key Features:

- Accurate and repeatable dispensing output
- Precision and durable feed screw/chamber
- Field replaceable spare parts
- Quick and easy feed screw/chamber cartridge changeover
- Low-maintenance design
- Interchangeable with TS5000DMP valve body
- Flexible syringe mounting position
- Flexible needle installation position
- Flexible encoder position (encoder version)
- Closed-loop motor control with encoder feed back (encoder version)

Specifications:

Length:	6.78" (172.2mm)
Width:	3.70" (94mm)
Depth:	2.23" (56.6mm)
Weight:	0.86 lb. (390 g)
Wetted Parts:	Hardened Tool Steel, Stainless Steel, UHMWPE, Nylon
Mounting:	1.0" (25.4mm) Wide Channel
Recommended Viscosity Range:	30K - 1300K cps

Valves:

PART NUMBER	DESCRIPTION
TS7000-16	IMP Rotary Valve, 16-Pitch
TS7000-8	IMP Rotary Valve, 8-Pitch
TS7000-8HO	IMP Rotary Valve, 8-Pitch High Output
TS7000E-16	IMP Rotary Valve, 16-Pitch, Encoder
TS7000E-8	IMP Rotary Valve, 8-Pitch, Encoder
TS7000E-8HO	IMP Rotary Valve, 8-Pitch High Output, Encoder

Cartridge Assembly:

PART NUMBER	DESCRIPTION
7090-9040	Cartridge Assembly, 16-Pitch
7090-9030	Cartridge Assembly, 8-Pitch
7090-9050	Cartridge Assembly, 8-Pitch HO



TS5500 Series Spray Valves

The Spray Valves are designed for precise spray applications of low to medium viscosity materials. An external stroke control makes it easy to fine-tune fluid flow. Total control of the spray cycle is provided by adjustable fluid flow and precise control of pre-spray, atomizing air and post-spray with the TS500R Valve Controller. Normal maintenance is simple and downtime is virtually eliminated with only one seal to replace.

The TS5540 Spray Valves come with FDA-Compliant 303 stainless steel construction in both air cylinder and fluid housing. A field replaceable Delrin® seat provides positive shut-off and extends life cycles. The compact design and easy-mount threaded hole allow for easy integration into automated applications.

Key Features:

- Consistent spray coverage
- No overspray
- Positive shut-off
- Adjustable flow control
- Long life cycles

Typical Applications:

To spray fine mist of low viscosity fluids such as: conformal coating, solvent, oil, etc.

Valve Specifications	TS5520	TS5540
Length:	4.2" (107mm)	4.2" (107mm)
Diameter:	1.12" (28mm)	1.12" (28mm)
Weight:	0.3 lb. (136 g)	0.74 lb. (336 g)
Wetted Parts:	303 SS, Teflon®, EPR, Anodized Al, Delrin®	303 SS, Teflon®, Delrin®
Viscosity Range:	1-1k cps	1-5k cps
Max Fluid Pressure	100 psi (6.9 bar)	
Activation Pressure:	70 psi (4.8 bar) Minimum	
Connections:	Inlet: 1/8" NPT Outlet: Spray nozzle	
Mounting:	1/4" 20UNC-2B	



TS5540
Spray Valve
with Cone Nozzle



Cone Nozzle



TS5540
Spray Valve
with Fan Nozzle



Fan Nozzle



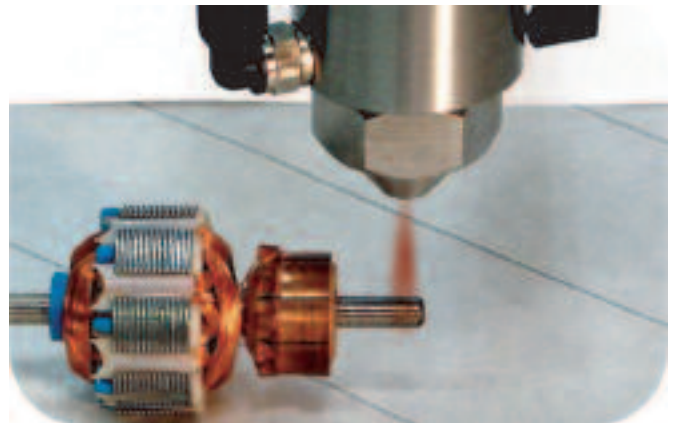
TS5520
Spray Valve
with Cone Nozzle

Valves with Nozzles:

	Opening Diameter	Cone Nozzle	Fan Nozzle
TS5520	0.046" (1.17mm)	Standard	Not available
TS5540	0.014" (0.356mm)	TS5540-014R	TS5540-014F
	0.028" (0.711mm)	TS5540-028R	TS5540-028F
	0.046" (1.17mm)	TS5540-046R	TS5540-046F

Nozzles only:

Opening Diameter	Cone Nozzle	Fan Nozzle
0.014" (0.356mm)	RNC014	FNC014
0.028" (0.711mm)	RNC028	FNC028
0.046" (1.17mm)	RNC046	FNC046



TS5620 Series Diaphragm Valves

Diaphragm Valves are designed to dispense low to medium viscosity materials with precision accuracy over a wide range of shot and bead sizes down to a fraction of a micro liter. A short opening stroke provides fast, positive shut-off. An external stroke control adjustment makes it easy to fine-tune shot sizes. The compact design allows for mounting flexibility and easy integration into automated applications.

Body available in FDA-compliant Ultra High Molecular Weight Polyethylene (UHMWPE) for most applications. A Teflon® version for chemical compatibility, and a Delrin® version for UV-curable are also available. A stainless steel version with optimized internal fluid route is especially dedicated to dispense UV-cure adhesives, resins and lacquers used in the manufacture of DVDs and CDs. A hand-held actuated valve is also available.

The valves are easy to use and maintain with user replaceable spare parts.

Key Features:

- Excellent moisture sensitive resistance
- Adjustable stroke control
- Compact size and weight
- Simple and low maintenance design
- Long life cycles

Typical Applications:

To dispense a wide range of shot sizes of low viscosity fluids such as: cyanoacrylates, anaerobics, liquid fluxes, solvents, UV-cure adhesives, resins and lacquers.

Length:	2.4" (61mm) - 3.47" (88mm) (Depending on exact configuration)
Diameter:	0.94" (24mm) - 1.06" (27mm)
Weight:	0.13 lb. (59 g) to 0.26 lb. (118 g)
Wetted Parts:	Depending on exact configuration
Viscosity Range:	1-50k cps
Max Fluid Pressure:	70 psi (4.8 bar)
Activation Pressure:	70 psi (4.8 bar) - 90 psi (6.2 bar)
Connections:	Depending on exact configuration
Mounting:	10-32 UNF (not available on all models)

PART NUMBER	DESCRIPTION
TS5620HU	Horizontal valve UHMWPE
TS5621HD	Horizontal valve Delrin®
TS5620HT	Horizontal valve Teflon®
TS5622VU	Vertical Valve UHMWPE
TS5622VD	Vertical Valve Delrin®
TS5622VT	Vertical Valve Teflon®
TS5622VU-DVD	Vertical Valve, UHMWPE-DVD
TS5623HU	Hand Held Valve UHMWPE
TS5623HD	Hand Held Valve Delrin®
TS5623HT	Hand Held Valve Teflon®





TS5420 - precision filling

TS5400 Series Needle Valves

Needle Valves dispense very precise deposits over a wide range of shot and bead sizes due to a minimal dead fluid zone. An external stroke control adjustment to fine-tune shot sizes. Easy to maintain, with little or no downtime. The compact design and easy-mount threaded hole allows for easy integration into automated applications.

The TS5420 Adjustable Needle Valve is a pneumatically triggered single-acting valve that can be used with an integral spring close (single action) or may be connected for air closing without the spring (double acting).

The TS5440 Microshot Needle Valve, with its needle closing the fluid path directly on the cannula inside the dispensing tip hub, can dispense very precise deposits down to 0.0005 cm³.

Key Features:

- Precise and consistent shot sizes
- Adjustable flow control
- Zero dead fluid zone
- Simple and low maintenance design

Typical Applications:

To dispense microdots of low viscosity fluids such as: solvents, inks, oils, activators, primers; the TS5440 is excellent to dispense microdots of UV adhesive used in medical device manufacturing.



TS5420
Needle Valve



TS5440
Microshot
Needle Valve

Valves:	TS5420	TS5420SS	TS5440
Size and Weight	L: 4.4" (112mm) D: 1.12" (28mm) Weight: 0.3 lb. (136 g)	L: 4.4" (112mm) D: 1.12" (28mm) Weight: 0.5 lb. (227 g)	L: 5.0" (127mm) D: 1.12" (28mm) Weight: 0.5 lb. (227 g)
Wetted Parts	303 SS, Anodized Al, Teflon®, EPR, Delrin®	303 SS, Teflon®, EPR, Delrin®	303 SS, Teflon®, EPR
Maximum Fluid Pressure	300 psi (20.7 bar)	300 psi (20.7 bar)	100 psi (6.9 bar)
Activation Pressure	70 psi (4.8 bar) Minimum	70 psi (4.8 bar) Minimum	70 psi (4.8 bar) Minimum
Connections	Inlet: 1/8" NPT Outlet: Male Luer Lock	Inlet: 1/8" NPT Outlet: Male Luer Lock	Inlet: 1/8" NPT Outlet: Taper w/ Luer Lock
Mounting	1/4"-20UNC-2B	1/4"-20UNC-2B	10-32 UNF
Recommended Viscosity Range	1-100k cps	1-100k cps	1-100k cps



TS941 High Pressure Spool Valve

The Spool Valves provide precise shot accuracy along with “high volume” capacity over a range of material viscosities, shot sizes and pressures. They feature “suck back” anti-drip as well as a fast on/off dispensing function that is not affected by material input pressure. An optional oil chamber creates an additional liquid seal to prevent moisture from being carried on the spool, excellent for moisture sensitive materials. Pneumatically activated, the valves can be used with an internal spring close (single acting) or an air-closing connection (double acting).

Output is a 1/4" NPT allowing multiple tip termination. This is the only valve type which allows multiple types of tips to be used.

TS5322 Mini Spool Valve

The Mini Spool Valve Series is designed for better accuracy with lower pressure. The series operates similar to the TS941, however, it is smaller in size.

	TS941	TS5322
Length:	4.7" (119mm)	4.00" (101.6mm)
Diameter:	1.5" (38mm)	1" (25mm)
Weight:	1.61 lb. (726 g)	0.31 lb. (141 g)
Wetted Parts:	303 Stainless Steel, UHMWPE, EPR	303 Stainless Steel, Anodized Al, Teflon®, EPR
Viscosity Range:	5 - 3000k cps	5 - 1000k cps
Max Fluid Pressure:	2500 psi (172.4 bar)	500 psi (34.5 bar)
Activation Pressure:	70 psi (4.8 bar)	70 psi (4.8 bar)
Material Inlet:	3/8" NPT	1/8" NPT
Material Outlet:	1/4" NPT	1/8" NPT
Mounting:	1.50" Diameter	1/4"-20UNC-2B

Typical Applications:

Suitable for moisture sensitive adhesive when utilizing supplied oiler. The Spool Valves can be used in a wide range of applications such as flux paste, grease, RTV Silicone, UV cure gel, solder mask, gasketing.



TS941 - gasketing.



TS941
Spool Valve



TS5322
Mini Spool Valve



TS5322 - gasketing.



TS1212 Pneumatic Pinch Tube Valve

Provides control for continuous or micro shot applications of low to semi-viscous fluids. The "ON/OFF" control is achieved by automatically opening and closing (pinching) a molded polyethylene tube assembly. Adjusting the opening size of the pinch tube assembly determines the shot size or flow rate. In addition, the air actuated valve can be timed to develop desired shot sizes. Finally, a wide range of dispensing tips can be used to further refine the amount of dispensed output. The only part of the valve making contact with the fluid being dispensed is the disposable pinch tube assembly.

Replacement pinch tube assemblies are sold in packages of ten.

Key Features:

- Disposable fluid path
- Simple to operate
- Compact size and weight

Typical Applications:

Cyanoacrylates, anaerobics, two-part adhesive, etc.

Length:	3.25" (83mm)
Diameter:	1.58" (40mm)
Weight:	0.18 lb. (82 g)
Wetted Parts:	Polyethylene (standard), Polyurethane (optional)
Viscosity Range:	1-45k cps
Max Fluid Pressure:	60 psi (4.1 bar)
Material Inlet:	Female Luer Lock
Material Outlet:	Male Luer Lock
Mounting:	1/4"-20UNC-2B
Activation Pressure:	50 psi (3.4 bar) minimum

Spare Pinch Tube for TS1212

Sold in pack of 10.

Part Number	Material	I.D.	Connection
1212-004-002BPK	Black PE	0.1" (2.54mm)	Male to Female
1212-004-002PK	Natural PE	0.1" (2.54mm)	Male to Female
1212-004-000PK	Natural PE	0.07" (1.78mm)	Male to Female
1212-004-100BPK	Black PU	0.125" (3.18mm)	Male to Female
1212-004-100PK	Natural PU	0.125" (3.18mm)	Male to Female



TS1201 Dispense Pen

The TS1201 Dispensing Pen uses a disposable molded tube assembly. Designed to handle a wide variety of fluids – from adhesives and lubricants to sealants and masks. Gravity or pressure fed, the pen has a built-in shot and flow rate for repeatability. Includes pre-assembled applicator pen, two clear and two black spare pinch tube assemblies, an assortment of disposable dispensing tips and a 24" hose. Replacement pinch tube assemblies sold in packs of 10.

Key Features:

- Disposable fluid path
- Simple to operate
- Compact size and weight

Typical Applications:

Cyanoacrylates, anaerobics, two-part adhesive, etc.

Length:	5" (127mm)
Diameter:	1.34" (34mm)
Weight:	0.08 lb. (36 g)
Wetted Parts:	Polyethylene (standard), Polyurethane (optional)
Viscosity Range:	1-45k cps
Max Fluid Pressure:	60 psi (4.1 bar)
Material Inlet:	Female Luer Lock
Material Outlet:	Male Luer Lock

Spare Pinch Tube for TS1201

Sold in pack of 10.

Part Number	Material	I.D.	Connection
1201-000-004BPK	Black PE	0.1" (2.54mm)	Male to Female
1201-000-004PK	Natural PE	0.1" (2.54mm)	Male to Female
1201-000-006PK	Natural PE	0.07" (1.78mm)	Male to Female
1201-006-000PK	Natural PU	0.125" (3.18mm)	Male to Female





Pressure Pot

The TS1258 Pressure Pot is designed to accommodate all solvent and epoxy fluids, as well as CAs and UVs. It will also accommodate black fittings and tubing in 1/4", 3/8", and 4mm, with stainless steel compression fittings for a continuous fluid path from the reservoir inside the pot to the point of use. Air-tight seals ensure no leakage or air entrapment problems.

0-100 psi (0-6.9 bar) operating pressure easily handles fluid viscosity up to 50,000 cps. Disposable polyethylene dip tube can be quickly changed. Includes 1/4" fluid line kit.

Size:	9.3" x 11.2" x 15.1" (236 x 285 x 383mm)
Chamber:	6.1" I.D. x 11.0" (155 I.D. x 280mm)
Weight:	21 lb. (9.5 kg)
Max Operating Pressure:	100 psi (6.9 bar)
Internal Volume:	5 liters

Available Fluid Line Kits: Includes 2 fittings (black or clear tubing)

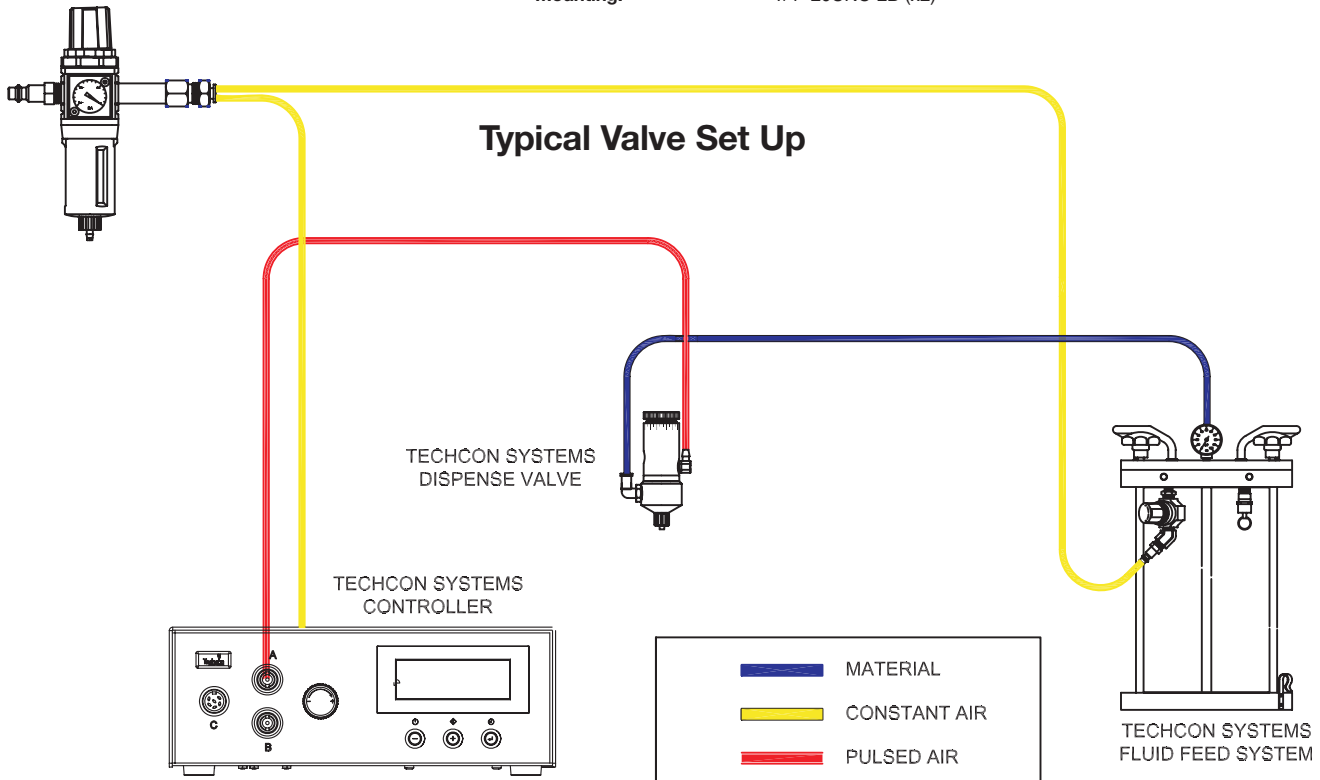
TS1252-4MM	4mm O.D. tube
TS1258-250	1/4" (6.35mm) O.D. tube
TS1258-375	3/8" (9.5mm) O.D. tube



TS918-46 Four-way Manifold

Designed to provide equal flow for up to four fluid paths, the TS918-46 is used whenever precision fluid flow to multiple stations is required. The Manifold works with the TS1258 Pressure Pot (TS1258-375 Hose Kit required to use TS918-46 and TS1258 together). Made from Delrin® and suitable with UV materials. The manifold can be used with any Techcon Systems Valve.

Size:	2.6" x 2.2" (66 x 56mm)
Inlet Port:	1/4" NPT (3/8" O.D. tube fitting is included)
Outlet Port:	1/8" NPT (4 Luer Lock fittings are included)
Max Operating Pressure:	100 psi (6.9 bar)
Mounting:	1/4"-20UNC-2B (x2)



Valve Application Guide

EXCELLENT ●

AVERAGE ◆

DO NOT USE ✕

Valve Version	Pinch (TS1212)	Needle (TS5420)	Micro Needle (TS5440)	Mini Spool (TS5322)	HP Spool (934/941)	Diaphragm (TS5620)	Rotary DMP (TS5000DMP)	Rotary (TS7000)	Spray (TS5540)
Micro shots	✕	◆	●	◆	✕	◆	◆	●	✕
Dots	●	●	●	●	●	●	●	●	✕
Lines/Beads	●	●	●	●	●	●	●	●	✕
Potting & Encapsulation	◆	◆	◆	●	●	●	●	●	✕
Packaging/Filling	●	●	●	●	●	●	◆	◆	✕
High Pressure	✕	✕	✕	●	●	✕	✕	✕	✕
Sprayed	✕	✕	✕	✕	✕	✕	✕	✕	●
VISCOSITY									
High	✕	✕	✕	●	●	✕	●	●	✕
Medium	✕	✕	◆	●	●	✕	●	●	✕
Low	●	●	●	◆	◆	●	✕	✕	●
APPLICATION									
Activators	●	●	●	◆	◆	●	✕	✕	●
Alcohol	●	●	●	◆	◆	●	✕	✕	●
Anaerobics	●	✕	✕	✕	✕	●	●	✕	✕
Conformal Coatings	✕	◆	◆	◆	◆	●	✕	✕	●
Cyanoacrylates	●	✕	✕	✕	✕	●	✕	✕	✕
Epoxies	◆	◆	◆	◆	◆	✕	●	●	✕
Flux (liquid)	●	●	●	◆	◆	●	✕	✕	●
Flux (paste)	✕	✕	✕	●	●	✕	●	●	✕
Greases	✕	✕	◆	●	●	✕	●	●	✕
Inks	●	●	●	◆	◆	●	✕	✕	●
Lacquers	◆	◆	●	◆	◆	●	✕	✕	●
Mold Releases	●	●	●	◆	◆	●	✕	✕	●
Oils	●	●	●	◆	◆	●	✕	✕	●
Paints	●	●	●	◆	◆	●	✕	✕	●
Reagent	◆	●	●	✕	✕	●	✕	✕	●
RTV Silicone	✕	✕	✕	●	●	✕	●	●	✕
Solder masks	●	◆	◆	●	●	●	✕	✕	✕
Solder pastes	✕	✕	✕	◆	◆	✕	◆	●	✕
Solvents	●	●	●	✕	✕	●	✕	✕	●
Two-part adhesive	●	✕	✕	✕	✕	✕	●	✕	✕
UV cure adhesive (liquid)	◆	✕	●	◆	✕	●	✕	✕	●
UV cure adhesive (gel)	✕	✕	●	●	✕	✕	●	●	✕
UV cure with anaerobic	●	✕	✕	✕	✕	●	●	✕	✕

Fluid Dispensing Valves

Techcon Systems offers a wide range of fluid dispensing valves from simple manual dispensing to precision valves for high speed automated applications. The range of valves includes:

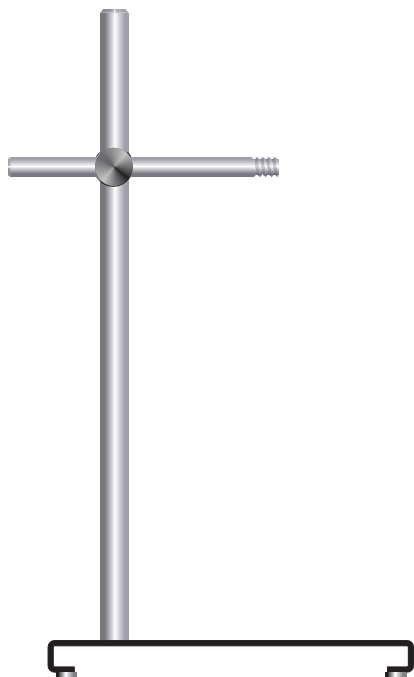
- Disposable material path valves for use with difficult materials.
- Easily maintained precision shot valves with excellent accuracy over a wide range of viscosities, material pressures and shot sizes.
- High speed valves for the precise deposit of heavy viscosity filled pastes and highly abrasive materials.

Techcon Systems offers a wide array of valve choices to meet every fluid dispensing need. Users are encouraged to utilize the “Techcon Material Test Program” to help define the appropriate valve for standard and unique applications. See our web site or contact Techcon Systems to access this unique and complimentary service. The following charts display the variety of valve features available.

Recommended = ●

Valve Type	Viscosity Range			Small shot Accuracy by Viscosity Range			Disposable Material Path	Field Replaceable wetted parts	High Flow Rate	High Feed Pressure	Aggressive Material	Abrasive Material	Atomizing Spray
	Low	Med	High	Low	Med	High							
TS1201	●						●	●			●		
TS1212	●						●	●			●		
TS934		●	●					●	●	●			
TS941		●	●					●	●	●	●		
TS5322		●	●		●	●		●		●			
TS5420	●			●				●			●		
TS5440	●	●		●	●			●			●		
TS5540/5520	●							●			●		●
TS5622	●			●				●			●		
TS5000		●	●		●	●					●	●	
TS5000DMP		●	●		●	●	●	●				●	
TS7000		●	●		●	●		●				●	

Viscosity Rating; Low = Up to 30K Cps; Med = 30K-100K Cps; High = 100K Cps - up



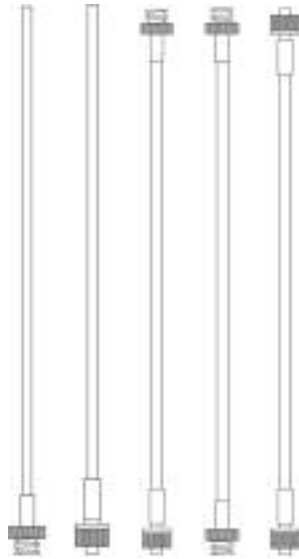
Production Master Systems

Production Master Systems provide added flexibility and productivity for hands-free, remotely controlled dispensing. It incorporates a unique “building block” concept to provide more versatility in specific dispensing applications. The system consists of a basic production master stand, mounting rod, brackets and a rod clamp.

Part Number	Description
918-033-000	Production Master Stand (Base and Support)
918-000-011	Syringe Bracket for 400 Series
918-000-013	TS934/TS941 Spool Valve Bracket
918-110-004	1/10 gallon (325ml) Cartridge Bracket
918-000-007	2.5 oz. (74ml), 6 oz. (177ml), 8 oz. (237ml) and 12 oz. (355ml) Cartridge Bracket
918-000-039	20 oz. (591ml) Cartridge Bracket
918-000-012	Rod Clamp Assembly
918-000-009	6" Non-Threaded Mounting Rod
1212-000-008	6" 1/4-20UNC-2B Threaded Mounting Rod
5620-000-008	4" 10-32 Threaded Mounting Rod

Fluid Line Assemblies

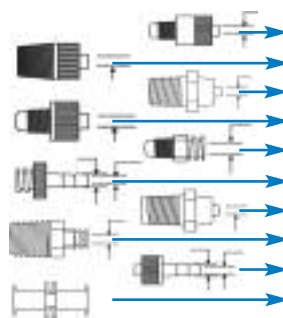
Each polyethylene hose assembly is provided with a molded Luer lock fitting on one or both ends. The assembly can be used with other standard Luer lock connectors and will handle up to 100 psi (6.9 bar) working pressure.



PART NUMBER	SIZE	CONNECTION	MATERIAL
TSD126-118PK	0.100" (2.54mm) x 18" (457mm)	Male Luer/open	Natural PE
TSD126-124PK	0.100" (2.54mm) x 24" (610mm)	Male Luer/open	Natural PE
TSD126-136PK	0.100" (2.54mm) x 36" (914mm)	Male Luer/open	Natural PE
TSD126-218PK	0.100" (2.54mm) x 18" (457mm)	Female Luer/open	Natural PE
TSD126-224PK	0.100" (2.54mm) x 24" (610mm)	Female Luer/open	Natural PE
TSD126-236PK	0.100" (2.54mm) x 36" (914mm)	Female Luer/open	Natural PE
TSD126-318PK	0.100" (2.54mm) x 18" (457mm)	Male Luer/female Luer	Natural PE
TSD126-318BPK	0.100" (2.54mm) x 18" (457mm)	Male Luer/female Luer	Black PE
TSD126-324PK	0.100" (2.54mm) x 24" (610mm)	Male Luer/female Luer	Natural PE
TSD126-324BPK	0.100" (2.54mm) x 24" (610mm)	Male Luer/female Luer	Black PE
TSD126-336PK	0.100" (2.54mm) x 36" (914mm)	Male Luer/female Luer	Natural PE
TSD126-336BPK	0.100" (2.54mm) x 36" (914mm)	Male Luer/female Luer	Black PE
TSD126-360BPK	0.100" (2.54mm) x 60" (1524mm)	Male Luer/female Luer	Black PE
TSD126-418PK	0.100" (2.54mm) x 18" (457mm)	Female Luer/female Luer	Natural PE
TSD126-424PK	0.100" (2.54mm) x 24" (610mm)	Female Luer/female Luer	Natural PE
TSD126-436PK	0.100" (2.54mm) x 36" (914mm)	Female Luer/female Luer	Natural PE
TSD126-524PK	0.100" (2.54mm) x 24" (610mm)	Male Luer/male Luer	Natural PE

Luer Lock Fittings

All 931 Series fittings are molded and have good chemical resistance to solvents, acids and resin fluids. The locking end accepts all standard dispensing tips and molded fitting used on the TSD126 Series hose assemblies. For a complete list, contact your local representative.



PART NUMBER	DESCRIPTION	MATERIAL
TSD931-5	Male Luer Lock to 5/16"-28	White Acetal
TSD931-6	Male Luer Lock to 1/8" NPT	White Acetal
TSD931-7	Male Luer Lock to 1/4" NPT	White Polypropylene
TSD931-8	Male Luer Lock to 1/4"-32	White Acetal
TSD931-9	Female Luer Lock to 1/4"-32	White Acetal
TSD931-13	Female Luer Lock to Hose Barb	White Acetal
TSD931-14	Male Luer Lock to 1/4" NPT	Black Polypropylene
TSD931-15	Female Luer Lock to 1/4" NPT	Black Nylon/Acetal
TSD931-17	Male Luer Lock to Hose Barb	White Acetal
TSD931-28	Female Luer Lock to Female Luer Lock	Natural Polypropylene

Compression Fittings & Tubes

Compression fittings and tubes provide secure connection and increase fluid flow.



PART NUMBER	DESCRIPTION	MATERIAL
TSD1003-16	1/8" NPT to 1/4" O.D. tube, 90° elbow fitting	Black Polypropylene
TSD1002-17	1/8" NPT to 3/8" O.D. tube fitting	Black Polypropylene
TSD1002-18	1/8" NPT to 1/4" O.D. tube fitting	Black Polypropylene
TSD1566-5	1/4" NPT to 3/8" O.D. tube fitting	Black Polypropylene
TSD1099-22	3/8" O.D. x 1/4" I.D. tube	Black Polypropylene
TSD1099-23	3/8" O.D. x 1/4" I.D. tube	Clear Polyethylene
TSD1099-24	1/4" O.D. x 1/8" I.D. tube	Clear Polyethylene
TSD1099-25	1/4" O.D. x 1/8" I.D. tube	Black Polyethylene

TS-SS Series Metal Dispensing Tips

TS-SS Tips are designed with high precision and tolerance for use in automated applications. Cannula is stainless steel. Hub is made of nickel plated brass. Length is 1/2" (12.7mm). Sold in packs of 12.



PART NUMBER	GAUGE	I.D. (inches)	I.D. (mm)
TS14SS-1/2PK	14	0.0622	1.581
TS15SS-1/2PK	15	0.0565	1.436
TS16SS-1/2PK	16	0.0469	1.192
TS17SS-1/2PK	17	0.0422	1.073
TS18SS-1/2PK	18	0.0331	0.841
TS19SS-1/2PK	19	0.0265	0.673
TS20SS-1/2PK	20	0.0235	0.597
TS21SS-1/2PK	21	0.0206	0.524
TS22SS-1/2PK	22	0.0161	0.410
TS23SS-1/2PK	23	0.0132	0.334
TS25SS-1/2PK	25	0.0102	0.260
TS26SS-1/2PK	26	0.0101	0.257
TS27SS-1/2PK	27	0.0082	0.207
TS28SS-1/2PK	28	0.0068	0.172



Finger Switch Assembly

Use the Finger Switch with Techcon's dispensers and syringes in place of a foot pedal. Provides control at your finger tip.

PART NUMBER	DESCRIPTION
DX9010	Finger Switch Assembly for TS Series Dispenser

Cartridges and Accessories

These dependable, high quality products are designed for the rigors of manufacturing and have undergone continuous improvement to keep pace with the exacting requirements of this challenging field.

Disposable plastic cartridges and nozzles provide a clean, efficient and low-cost method to meet all types of production requirements. Plungers with a wiper leading edge clean each cartridge thoroughly. Caps and plugs for both ends of the cartridge are available, making the system ideal for prepackaged materials as well as pre-mixed and frozen product handling.

Cartridges

Cartridges are available in 2 1/2, 6, 8, 12, and 20 ounce as well as 1/10 gallon capacities. Each size can be used with hand or bench mounted air powered dispensing tools or manual dispensing tools. Cartridges are molded in either standard or low density polyethylene. Custom colors are available.

Part Number	Description	Length Inches/mm	Diameter Inches/mm
TS25C-500	2.5 oz. (74ml) Natural HDPE	4.00/101.6	1.59/40.4
TS25C-GREEN-500	2.5 oz. (74ml) Green HDPE	4.00/101.6	1.59/40.4
TS25C-LD-500	2.5 oz. (74ml) Natural LDPE	4.00/101.6	1.59/40.4
TS60C-500	6 oz. (177ml) Natural HDPE	7.11/180.6	1.59/40.4
TS60C-BLACK-500	6 oz. (177ml) Black HDPE	7.11/180.6	1.59/40.4
TS60C-GREEN-500	6 oz. (177ml) Green HDPE	7.11/180.6	1.59/40.4
TS60C-LD-500	6 oz. (177ml) Natural LDPE	7.11/180.6	1.59/40.4
TS80C-250	8 oz. (237ml) Natural HDPE	8.92/226.6	1.59/40.4
TS80C-LD-250	8 oz. (237ml) Natural LDPE	8.92/226.6	1.59/40.4
TS120C-250	12 oz. (355ml) Natural HDPE	12.34/313.4	1.59/40.4
TS120C-BLACK-250	12 oz. (355ml) Black HDPE	12.34/313.4	1.59/40.4
TS120C-GREEN-250	12 oz. (355ml) Green HDPE	12.34/313.4	1.59/40.4
TS120C-LD-250	12 oz. (355ml) Natural LDPE	12.34/313.4	1.59/40.4
TS110C-250	1/10 Gallon (325ml) Natural HDPE	8.99/228.3	1.85/47.0
TS110C-BLACK-250	1/10 Gallon (325ml) Black HDPE	8.99/228.3	1.85/47.0
TS110C-LD-250	1/10 Gallon (325ml) Natural LDPE	8.99/228.3	1.85/47.0
TS20C-100	20 oz. (591ml) Natural HDPE	10.3/254.8	2.57/65.3
TS20C-BLACK-100	20 oz. (591ml) Black HDPE	10.3/254.8	2.57/65.3

Plungers

Wiper Plungers incorporate a modified or extended front wiper edge.

Part Number	Description
TS1P-1000	2.5, 6, 8, 12 oz., Blue Wiper LDPE
TS1P-BLACK-1000	2.5, 6, 8, 12 oz., Black Wiper LDPE
TS1WP-1000	2.5, 6, 8, 12 oz., Natural Extended Wiper LDPE
TS3WP-MD-1000	2.5, 6, 8, 12 oz., Natural Reduced Wiper MDPE
TS2P-1000	1/10 Gallon White Wiper LDPE
TS2PW-1000	1/10 Gallon White Extended Wiper LDPE with EVA
TS2P-BLACK-1000	1/10 Gallon Black Wiper LDPE
TS20P-100	20 oz. White Wiper MDPE
TS20PLD-100	20 oz. Natural Wiper LDPE

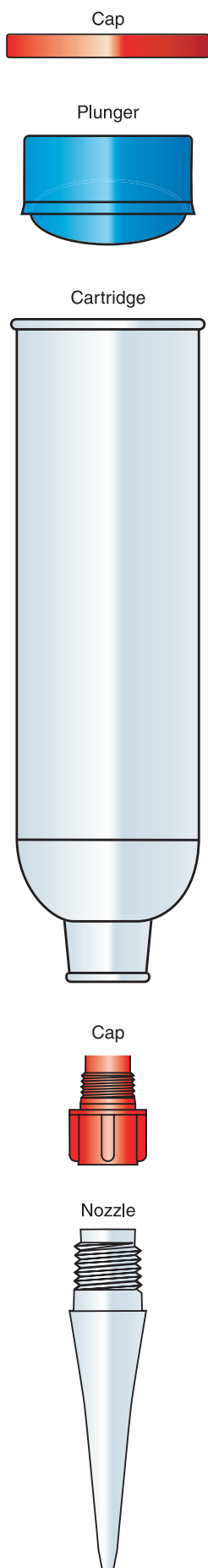
Caps

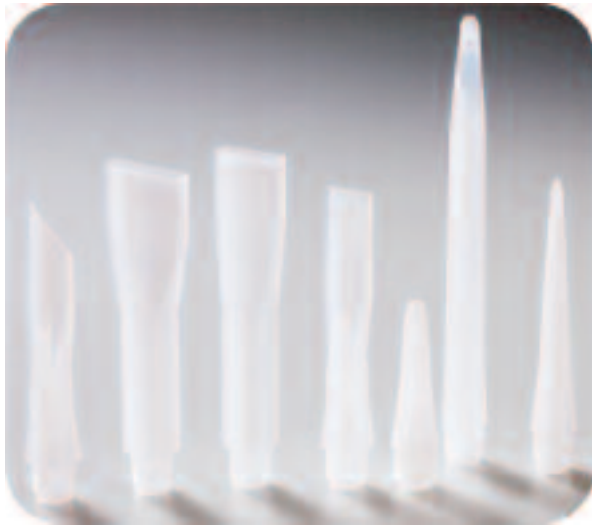
Top and bottom Caps provide a choice of methods to seal the neck and base of the cartridge.

Part Number	Description
TS2C-1000	2.5, 6, 8, 12 oz. Red LDPE Flange Cap
TS4C-1000	1/10 Gallon Red LDPE Flange Cap
TS6C-1000	20 oz. Red LDPE Flange Cap
TS3P-1000	Threaded Tri Seal Red PE Cap
TS4P-1000	Threaded Square Red PE Cap
TS5P-1000	Snap On Tri Seal Red PE Cap
TS6P-BLACK-1000	Threaded Black PE Cap
TS6P-RED-1000	Threaded Red PE Cap
TS9X-1000	Push On Red PE Cap

LD = Low Density
MD = Medium Density

HD = High Density
PE = Polyethylene





Disposable Nozzles and Dispensing Tip Adapters

Nozzles and dispensing tip adapters provide a wide range of application capabilities. Standard nozzles may be cut back to increase orifice size.

Dispensing Tip Adapters

These tip adapters have standard 1/4" NPT male threads on one end to fit all Techcon Systems cartridges or equivalent and standard male Luer lock threads on opposite side to fit all Luer lock dispensing tips.

Part Number	Description
TSD931-7	Dispensing Tip Adapter White Polypropylene
TSD931-14	Dispensing Tip Adapter Black Polypropylene
918-006-000	Dispensing Tip Adapter Metal

Standard Nozzles

Standard nozzles are precision molded from natural polyethylene and have 1/4" NPT male threads to fit all Techcon Systems cartridges or equivalent. Sold in bulk package of 1000. These nozzles can be ordered with 30, 45, 80 and 90 degree bends, however minimum order, lead time and pricing considerations apply.

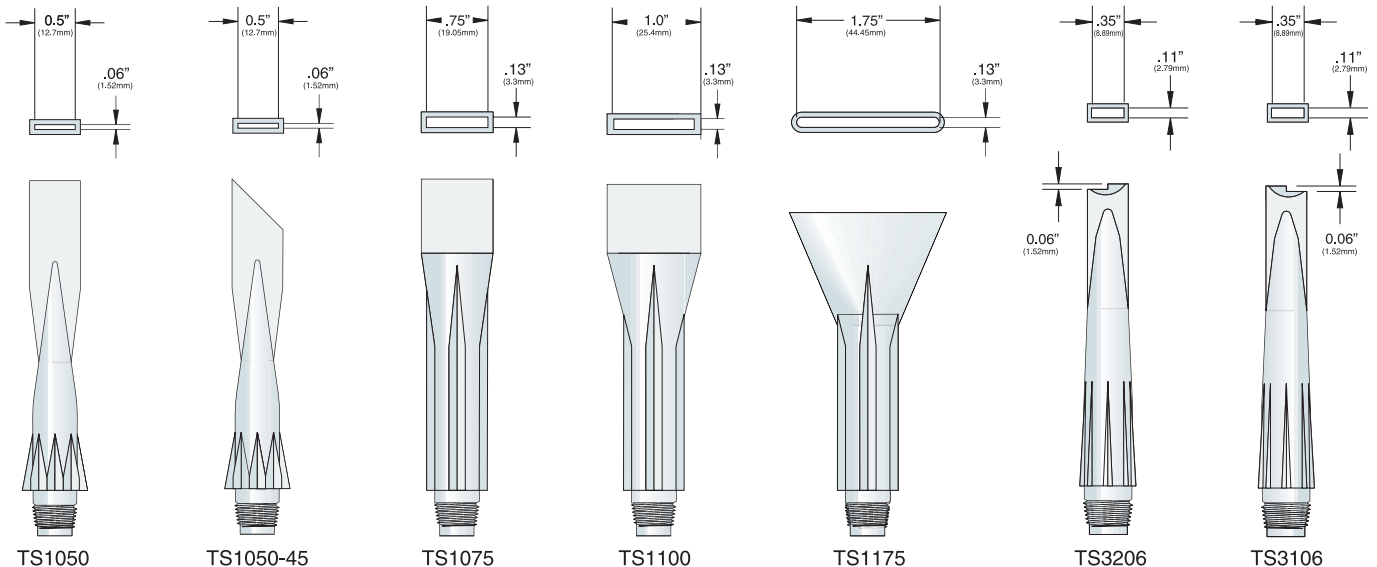
Part Number	Description
TS216-1000	2.5" 1/16" (63.5mm/1.59mm) Orifice, HDPE
TS218-1000	2.5" x 1/8" (63.5mm/3.18mm) Orifice, HDPE
TS218-LD-1000	2.5" x 1/8" (63.5mm/3.18mm) Orifice, LDPE
TS416-1000	4" x 1/16" (101.6mm/1.59mm) Orifice, HDPE
TS416-LD-1000	4" x 1/16" (101.6mm/1.59mm) Orifice, LDPE
TS418-1000	4" x 1/8" (101.6mm/3.18mm) Orifice, HDPE
TS432-1000	4" x 1/32" (101.6mm/0.79mm) Orifice, HDPE
TS432-LD-1000	4" x 1/32" (101.6mm/0.79mm) Orifice, LDPE
TS490-1000	4" x 3/32" (101.6mm/2.38mm) Orifice, HDPE
TS616-1000	6" x 1/16" (152.4mm/1.59mm) Orifice, HDPE
TS618-1000	6" x 1/8" (152.4mm/3.18mm) Orifice, HDPE

Specialty Nozzles

Specialty nozzles are precision molded from polyethylene and have 1/4" NPT male threads to fit all Techcon Systems cartridges or equivalent. Available in various thicknesses and widths to meet your application needs. Sold in bulk package of 1000.

Part Number	Description
TS1050-1000	4" (101.6mm) Spreader Nozzle 1/2" x 1/16" (12.7mm x 1.59mm) Opening
TS1050-45-1000	4" (101.6mm) Spreader Nozzle 45 Deg 1/2" x 1/16" (12.7mm x 1.59mm) Opening
TS1075-1000	4.5" (114.3mm) Spreader Nozzle 3/4" x 1/8" (19.05mm x 3.18mm) Opening
TS1100-1000	4.4" (111.76mm) Spreader Nozzle 1" x 1/8" (25.4mm x 3.18mm) Opening
TS1175-1000	4" (101.6mm) Spreader Nozzle 1-3/4" x 1/8" Opening
TS3106-1000	4" (101.6mm) Fillet Nozzle 3/8" x 1/8" (44.45mm x 3.18mm) Opening, Right Step
TS3206-1000	4" (101.6mm) Fillet Nozzle 3/8" x 1/8" (9.53mm x 3.18mm) Opening, Left Step

LD = Low Density
 MD = Medium Density
 HD = High Density
 PE = Polyethylene





G Series
Handle Assemblies

G Series
Retainer Caps

TS16
Handle Assemblies

TS950
Sealant Gun

TS Series
Retainer Cap

G Series Dispensing Guns and Components

Techcon Systems G Series guns and components are designed to accommodate standard 1/10 gallon cartridges, such as Techcon's TS110C. Techcon also provides metal retainers that adapt the G Series handle assemblies for use with the smaller diameter cartridges. A 20 oz. retainer with adapter is available to accommodate the 20 oz. cartridge.

G Series Retainer

The G Series retainers provide up to 100 psi (6.9 bar) air pressure.

Part Number	Size
110-2	1/10 gal. (325ml)
101-25R	2.5 oz. (74ml)
101-60R	6 oz. (177ml)
101-120R	12 oz. (355ml)
101-20R*	20 oz. (591ml)
101-20A	20 oz. Adapter (591ml)

*101-20A Adapter is required for 20 oz.

G Series Retainer Cap

The G Series retainer cap provides a leak-proof connection between the dispenser and G Series retainers. Shipped complete with air hose assembly, and can withstand up to 70 psi (4.8 bar) pressure.

Part Number	Description
918-000-036	G Series Retainer Cap

G Series Gun Assemblies

This pneumatic pistol grip G Series gun provides infinite control of line or dot dispensing and can withstand up to 100 psi (6.9 bar) pressure. Shipped complete with a 10-foot air hose.

Part Number	Size	Handle	Retainer
G-110	1/10 gal. (325ml)	110-1-10	110-2
G110-25	2.5 oz. (74ml)	110-1-10	101-25R
G110-60	6 oz. (177ml)	110-1-10	101-60R
G110-120	12 oz. (355ml)	110-1-10	101-120R
G110-20*	20 oz. (591ml)	110-1-10	101-20R

*101-20A Adapter included.

TS Series Dispensing Guns and Components

TS Series dispensing guns and components are designed to accommodate Techcon Systems extensive line of Cartridges and Techkits.

TS Retainers

The TS Series retainers are durable, lightweight and can withstand up to 100 psi (6.9 bar) pressure.

Part Number	Size
918-030-000	2.5 oz. (74ml)
918-031-000	6 oz. (177ml)
918-034-000	8 oz. (237ml)
918-032-000	12 oz. (355ml)

TS Retainer Cap

The TS Series retainer cap provides a leak-proof connection between the dispenser and TS Series retainers. Quick connector and air hose assembly are available separately and can withstand up to 100 psi (6.9 bar) pressure.

Part Number	Description
918-001-004	TS Series Retainer Cap
918-000-002	Air Hose Assembly
534	Connector w/Shut-off
534A	Connector No Shut-off

TS16 Manual Gun Assemblies

The lightweight TS16 Series manual gun assembly is ideal for field applications where compressed air is unavailable.

Gun	Size	Handle	Retainer
TS16-25	2.5 oz. (74ml)	TS16	918-030-000
TS16-60	6 oz. (177ml)	TS16	918-031-000
TS16-80	8 oz. (237ml)	TS16-2	918-032-000
TS16-120	12 oz. (355ml)	TS16-2	918-032-000

TS950 Sealant Gun

The TS950 is a versatile, pneumatic sealant gun designed to accommodate all TS Series retainers. Complete assembly includes palm grip gun with pistol grip handle attached. Shipped without air hose, the 1000-12 ten-foot hose assembly can be ordered separately.

Pistol Grip Sealant Gun	Size	Pistol Grip Assembly	Palm Grip Assembly	Retainer
TS950-25-HA	2.5 oz. (74ml)	TS950-3	TS950-75	918-030-000
TS950-60-HA	6 oz. (177ml)	TS950-3	TS950-75	918-031-000
TS950-80-HA	8 oz. (237ml)	TS950-3	TS950-75	918-034-000
TS950-120-HA	12 oz. (355ml)	TS950-3	TS950-75	918-032-000

New! Techkit Cartridge Mixers TS6500 Series

The TS6500 Series cartridge mixer provides complete automatic mixing of two-component material filled in a cartridge kit. The feature rich TS6500 Series accommodates all standard size cartridge kits ranging from 2.5 oz. (74ml) to 20 oz. (591ml) and is immediately usable anywhere in the world with its accompanying tools, accessories and universal power supply.

Key Features:

- Universal power supply for worldwide use
- Automatic fluid level sensing device for all kit sizes— No need to set stroke length
- Automatically injects hardener into resin to provide uniform mixed material
- Robust, high torque motor to handle high viscosity material
- Safety features include safety enclosure, emergency stop button and two-hand start
- User programmable manual and automatic mixing cycle settings
- 10 programmable memories for storing and recalling most frequently used mix cycle
- Quick and easy to replace cartridge holder and plunger - No tool needed
- User friendly firmware for easy setup
- Robust and sturdy platform for heavy industrial used
- RoHS, WEEE compliance

Specifications:

Size:	15.7"W x 21.2"D x 40.6"H 398mm x 538mm x 1032mm
Weight:	80 lb (36kg)
Internal Voltage:	120-230VAC, 50-60 Hz, 2 Amp
Motor Speed:	139 RPM
Air Inlet:	80 psi (5.5 Bar) Min.
Stroke Speed:	33 Strokes/minute (fully extended)
Meets or exceeds:	CE, cTUV-us
Warranty:	1 year

Part number	Description
TS6500CIM-6	Cartridge Mixer for 2.5 (74ml), 6.0 (177ml), 8.0 oz. (237ml) kit
TS6500CIM-20	Cartridge Mixer for 20 oz. (591ml) kit



Barrier/Injection Type

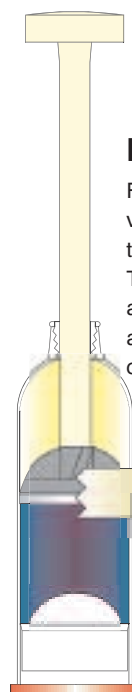
For three component compounds, components of both Injection and Barrier are combined.

Techkits

Two Component Cartridge Packaging and Mixing Kits

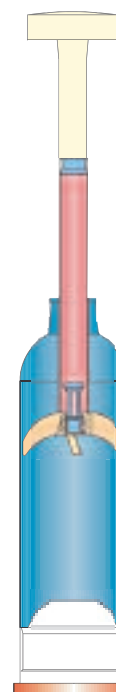
The Techkit is a compact and simple method of packaging two or three component resin systems into a 2 1/2, 6, 8, 20 ounce or 1/10 gallon cartridge. The kit mechanically separates the base and hardener until they are ready to be used. An internal mixing head provides a thorough blend for all types of compounds. When the job has been completed, the entire package is disposed of: no clean up or physical contact with the resin. Reliability is increased with accurate compound ratios, complete mixing and proper application techniques.

Three types of kits are available:



Barrier Type

For compounds with a volumetric ratio greater than 10 parts per 100. The catalyst and base are separated by an aluminum barrier formed over the mixing head.



Injection Type

For compounds with a volumetric ratio of 10 parts or less per 100. The catalyst is contained inside the valved mixing rod while the base is in the cartridge.

Techkit Components

Mix Heads

Part Number	Description
110-340	1/10 gal. Mix Head
110-350	1/10 gal. Foiled Mix Head
600-200	Open Mix Head
600-300	Wheel Mix Head
600-310	Foiled Wheel Mix Head
600-320	Half Closed Circle Mix Head
600-330	Foiled Half Closed Circle Mix Head
600-360	20 oz. Wheel Mix Head
600-370	20 oz. Foiled Wheel Mix Head



Rods

Part Number	Description
600-080	8" (203.2mm) Ram Rod
600-100	6" (152.4mm) Plugged Rod
610-100A	6" (152.4mm) Valved Rod with Piston
800-100	8" (203.2mm) Plugged Rod
810-100A	8" (203.2mm) Valved Rod with Piston

Complete Techkits

Part Number	Size	Type	Cartridge	Plunger	Cap	Mix Head	Rod	Ram Rod
110-80	1/10 gal. (325ml)	Injection	TS110C	TS2P	TS4C	110-340	810-100A	600-080
110-81	1/10 gal. (325ml)	Barrier	TS110C	TS2P	TS4C	110-350	800-100	
110-81T	1/10 gal. (325ml)	Taped Barrier	TS110C	TS2P	TS4C	110-350	800-100	
250-60	2 1/2 oz. (74ml)	Injection	TS25C	TS1WP	TS2C	600-200	610-100A	600-080
250-61	2 1/2 oz. (74ml)	Barrier	TS25C	TS1WP	TS2C	600-310	600-100	
250-61T	2 1/2 oz. (74ml)	Taped Barrier	TS25C	TS1WP	TS2C	600-310	610-100	
250-80	2 1/2 oz. (74ml)	Injection	TS25C	TS1WP	TS2C	600-200	810-100A	600-080
250-81	2 1/2 oz. (74ml)	Barrier	TS25C	TS1WP	TS2C	600-310	800-100	
250-81T	2 1/2 oz. (74ml)	Taped Barrier	TS25C	TS1WP	TS2C	600-310	800-100	
600-60	6 oz. (177ml)	Injection	TS60C	TS1WP	TS2C	600-200	610-100A	600-080
600-61	6 oz. (177ml)	Barrier	TS60C	TS1WP	TS2C	600-310	600-100	
600-61-330	6 oz. (177ml)	Barrier	TS60C	TS1WP	TS2C	600-330	600-100	
600-61T	6 oz. (177ml)	Taped Barrier	TS60C	TS1WP	TS2C	600-310	600-100	
600-80	6 oz. (177ml)	Injection	TS60C	TS1WP	TS2C	600-200	810-100A	600-080
600-81	6 oz. (177ml)	Barrier	TS60C	TS1WP	TS2C	600-310	800-100	
600-81T	6 oz. (177ml)	Taped Barrier	TS60C	TS1WP	TS2C	600-310	800-100	
800-80	8 oz. (237ml)	Injection	TS80C	TS1WP	TS2C	600-200	810-100A	600-080
800-81	8 oz. (237ml)	Barrier	TS80C	TS1WP	TS2C	600-310	800-100	
800-81-330	8 oz. (237ml)	Barrier	TS80C	TS1WP	TS2C	600-330	800-100	
800-81T	8 oz. (237ml)	Taped Barrier	TS80C	TS1WP	TS2C	600-310	800-100	
200-80	20 oz. (591ml)	Injection	TS20C	TS20P	TS6C	600-360	810-100A	600-080
200-81	20 oz. (591ml)	Barrier	TS20C	TS20P	TS6C	600-370	800-100	
200-81T	20 oz. (591ml)	Taped Barrier	TS20C	TS20P	TS6C	600-370	800-100	

Sealant Smoothing and Removal Tools

Techcon Systems plastic sealant tools are ideal for spreading, smoothing and removing sealants or adhesives. Approved for use in aerospace industry, these tools are designed to prevent damage to delicate substrates. Spatulas made from Nylon. Smoothing tool made from Celcon®.

PART NUMBER	DESCRIPTION
1275-000-001	Spatula, Large
1275-000-002	Spatula, Medium
1275-000-003	Spatula, Small
TS1275-KP	Spatula Kit
TS1275-4	Smoothing tool, Red Celcon®





Tutorial

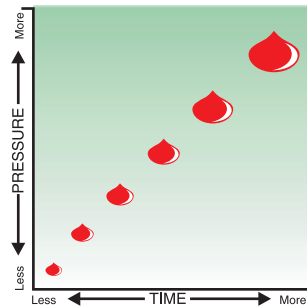
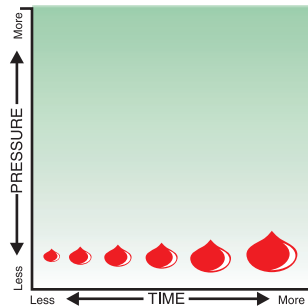
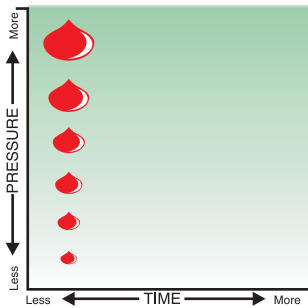
Time-Pressure Dispensing

Time pressure dispensing is the most common dispensing method used today. Its popularity stems from the need for process control and the fact that it is possible to dispense from disposable containers without the need for cleaning.

Our time-pressure dispensers deliver a measured amount of air pressure, for a measured amount of time, to a pre-filled syringe barrel. This controlled shot of air pressure forces material out of the delivery end of the barrel, through a dispensing tip, and out to the application surface.

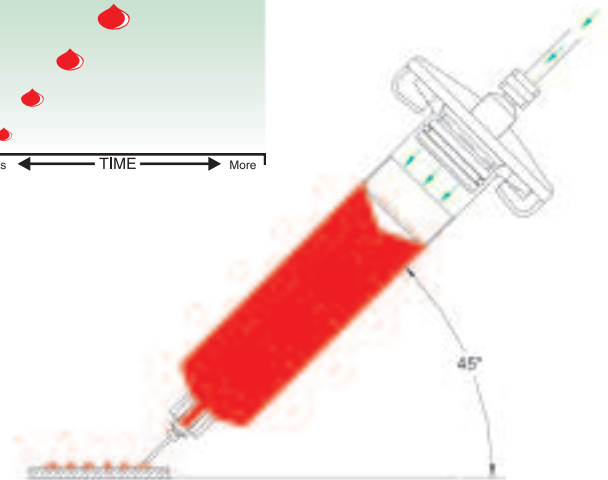
Factors Affecting Dispensing

- **PRESSURE:** Increasing fluid pressure will increase dot size and vice versa
- **TIME:** Increasing dispense time will increase dot size and vice versa
- **DISPENSING TIP SIZE:** Larger inside diameter (orifice) needle results in bigger dot size



Basic Dispensing Guidelines

- **SMALL SHOT SIZE** = small dispensing tip, low fluid pressure, short dispense time
- **LARGE SHOT SIZE** = larger dispensing tip, higher fluid pressure, longer dispense time
- **LOW VISCOSITY FLUID** = small dispensing tip, low pressure, time as required
- **HIGH VISCOSITY FLUID** = larger dispensing tip (tapered dispensing tip recommended), high pressure, time as required
- Position syringe barrel at 45° angle
- Position the dispensing tip close to the work surface then activate the dispense cycle and keep the syringe barrel in the same position until the cycle is completed
- If vacuum "suck-back" is needed, use only enough vacuum to draw back fluid into the dispense tip. Excessive vacuum could draw air into the fluid and also could draw fluid into the dispenser.



Viscosity Chart

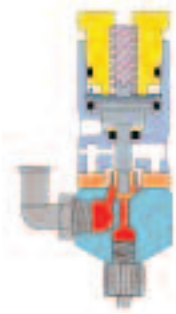
Material	Viscosity (Centipoise)
Water	1
Milk	3
Castor Oil	1000
Maple Syrup	5000
Honey	10000
Chocolate Syrup	25000
Ketchup	50000
Sour Cream	100000
Peanut Butter	250000
Shortening	1200000

Shot Size Chart

Dot Diameter	Dot Volume	Dot Size (actual)
0.010" (0.25mm)	0.0000043 cc	•
0.020" (0.51mm)	0.00003 cc	•
0.030" (0.76mm)	0.0001 cc	•
0.040" (1.02mm)	0.0003 cc	•
0.050" (1.27mm)	0.0005 cc	•
0.060" (1.52mm)	0.0009 cc	•
0.070" (1.78mm)	0.0015 cc	•
0.080" (2.03mm)	0.0022 cc	•
0.090" (2.29mm)	0.0031 cc	•
0.100" (2.54mm)	0.0043 cc	•

Valve Diagrams

TS5620
Diaphragm Valve



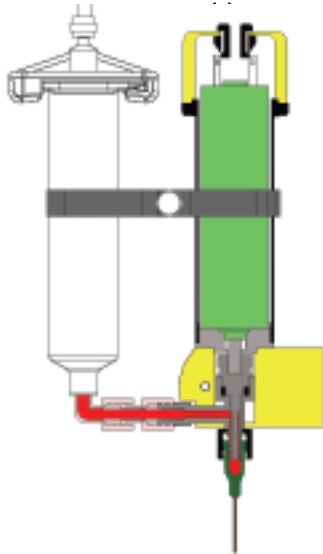
TS5540
Spray Valve



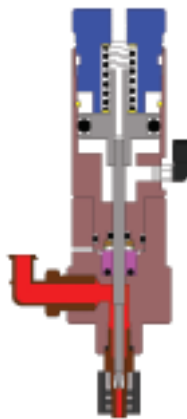
TS5322
Mini Spool Valve



TS5000DMP
Rotary Valve



TS5420
Needle Valve



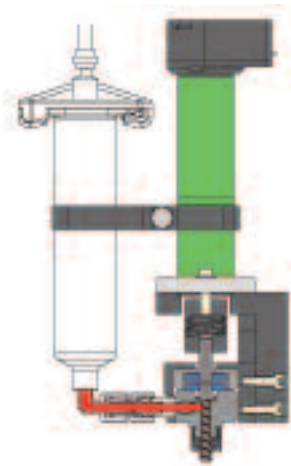
TS5440
Microshot Needle Valve



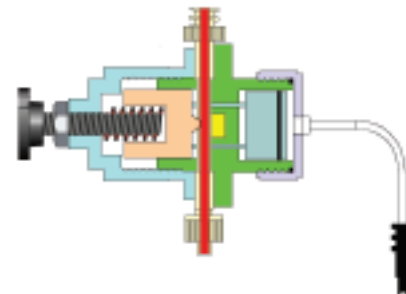
TS941
High Pressure Spool Valve



TS7000
IMP Rotary Valve



TS1212
Pinch Tube Valve





OKinternational

North America

12151 Monarch Street • Garden Grove, California 92841 USA

Tel: +1-714-799-9910 • Fax: +1-714-799-9533

www.techconsystems.com