TECHCON™

Precision Dispensing Solutions

Techkit Components

Complete Techkits								
Part Number	**Size**	**Kit Type**	**Cartridge**	**Plunger**	**Cap**	**Mix Head**	**Rod**	**Ram Rod**
110-80	1/10 gal. (280 ml)	Injection	**TS110C**	**TS2PW**	**TS4C**	**110-340**	**810-100A**	**600-080**
110-81T	1/10 gal. (280 ml)	Taped Barrier	**TS110C**	**TS2PW**	**TS4C**	**110-350**	**800-100**	
250-60	2 1/2 oz (50 ml)	Injection	**TS25C**	**TS1WP**	**TS2C**	**600-200**	**610-100A**	**600-080**
250-61T	2 1/2 oz (50 ml)	Taped Barrier	**TS25C**	**TS1WP**	**TS2C**	**600-310**	**600-100**	
250-61T-330	2 1/2 oz (50 ml)	Taped Barrier	**TS25C**	**TS1WP**	**TS2C**	**600-330**	**600-100**	
250-80	2 1/2 oz (50 ml)	Injection	**TS25C**	**TS1WP**	**TS2C**	**600-200**	**810-100A**	**600-080**
250-81T	2 1/2 oz (50 ml)	Taped Barrier	**TS25C**	**TS1WP**	**TS2C**	**600-310**	**800-100**	
600-60	6 oz (140 ml)	Injection	**TS60C**	**TS1WP**	**TS2C**	**600-200**	**610-100A**	**600-080**
600-61T	6 oz (140 ml)	Taped Barrier	**TS60C**	**TS1WP**	**TS2C**	**600-310**	**600-100**	
600-80	6 oz (140 ml)	Injection	**TS60C**	**TS1WP**	**TS2C**	**600-200**	**810-100A**	**600-080**
600-81T	6 oz (140 ml)	Taped Barrier	**TS60C**	**TS1WP**	**TS2C**	**600-310**	**800-100**	
600-81T-330	6 oz (140 ml)	Taped Barrier	**TS60C**	**TS1WP**	**TS2C**	**600-330**	**800-330**	
800-80	8 oz (210 ml)	Injection	**TS80C**	**TS1WP**	**TS2C**	**600-200**	**810-100A**	**600-080**
800-81T	8 oz (210 ml)	Taped Barrier	**TS80C**	**TS1WP**	**TS2C**	**600-310**	**800-100**	
800-81T-330	8 oz (210 ml)	Taped Barrier	**TS80C**	**TS1WP**	**TS2C**	**600-330**	**800-330**	
200-80	20 oz (550 ml)	Injection	**TS20C**	**TS20P**	**TS6C**	**600-360**	**810-100A**	**600-080**
200-81T	20 oz (550 ml)	Taped Barrier	**TS20C**	**TS20P**	**TS6C**	**600-370**	**800-100**	
200-81T-PFLD	20 oz (550 ml)	Taped Barrier	**TS20C**	**TS20PFLD**	**TS6C**	**600-380**	**800-100**	

Mix Heads

110-340 **110-350** **600-200** **600-300** **600-310**

600-320 **600-330** **600-360** **600-370** **600-380**

Mix Heads	
Part Number	**Description**
110-340	1/10 gal. (280 ml) Mix Head
110-350	1/10 gal. (280 ml) 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 (550 ml) Wheel Mix Head
600-370	20 oz (550 ml) Foiled Wheel Mix Head
600-380	20 oz (550 ml) Spoked Wheel Mix Head

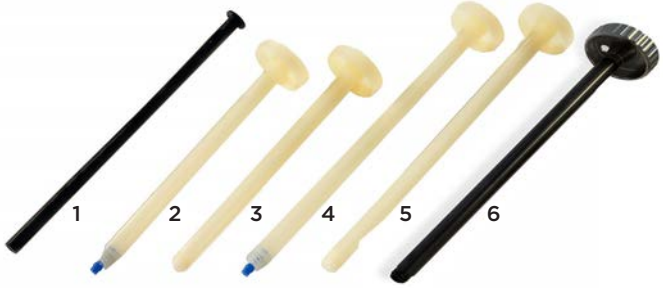
Sealant Smoothing and Removal Tools

Techcon 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 Acetal.

Part Number		Description
TS1275-KP	**1**	Spatula Kit
TS1275-4	**2**	Smoothing tool, Red Acetal

1

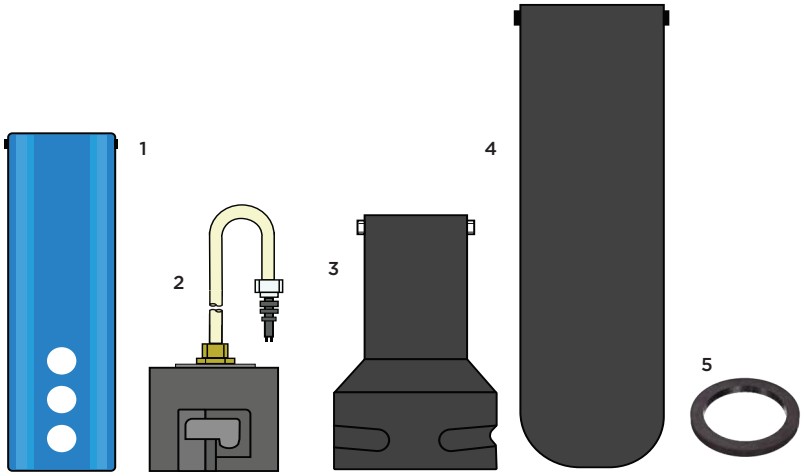
2



1 **2** **3** **4** **5** **6**

Rods		
Part Number		**Description**
600-080	**1**	8" (203.2 mm) Ram Rod
600-100	**2**	6" (152.4 mm) Plugged Rod
600-101		Piston for Injection Rod
610-100A	**3**	6" (152.4 mm) Valved Rod with Piston
800-100	**4**	8" (203.2 mm) Plugged Rod
810-100A	**5**	8" (203.2 mm) Valved Rod with Piston
800-100-METAL	**6**	8" (203.2 mm) Plugged Rod, Metal

20 oz & 1/10 Gallon (310 ml) Dispensing Components



Part No.		Size
110-2-C	1	1/10 gal. (310 ml) Retainer
918-000-036-C	2	20 oz / 1/10 Gallon Retainer Cap
101-20A	3	20 oz Adapter Retainer
101-20R*	4	20 oz Retainer
101-20G	5	Gasket for 20 oz Adapter

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

TS Retainers

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

Part No.		Size
918-030-000	6	2.5 oz
918-031-000	7	6 oz
918-034-000	8	8 oz
918-032-000	9	12 oz

TS Retainer Cap

The TS Series Retainer Cap provides a leakproof 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 No.		Description
918-001-004	10	TS Series Retainer Cap
918-000-002	11	Air Hose Assembly
918-001-007	12	Gasket for TS Retainer Cap
534A	13	Connector without Shut-off

TS Series
Dispensing Guns and Components

TS Series Dispensing Guns and components are designed to accommodate Techcon's extensive line of cartridges and Techkits.

TS2560 Series Applicator Guns

These lightweight palm and pistol grip applicator guns allow for the processing of Techcon and standard sealant cartridges with ease. The TS2560 Series Dispensing Gun is ideal for dispensing silicones, grease, or other materials that come in standard cartridges.

A unique, light-weight, adjustable retainer fits cartridge sizes of 2.5 oz., 6 oz & 8 oz.

With a maximum working pressure of 5.5 bar (80psi), the guns are ideally suited for a multitude of aerospace and other industrial applications.

Part No.	Description
TS2560-PG	Palm Grip
TS2560-HG	Pistol Grip
TS2560-2040	Bayonet Retainer
TS2560-2041	Threaded Retainer Adapter

Key Features

- Easy to assemble & operate
- Adjustable retainer to fit 2.5 oz., 6 oz & 8 oz cartridges
- Light-weight
- Pistol version features adjustable air regulator
- Compatible with all aerospace sealant

TS950 Sealant Gun

The TS950 is a versatile, pneumatic sealant gun designed to accommodate all TS Series Retainers. Complete assemblies include palm grip gun with pistol grip handle attached. Shipped without an air hose, the 1000-12 10 foot hose assembly can be ordered separately.

Pistol Grip Sealant Gun	Size	Palm Grip Assembly	Pistol Grip Handle	Retainer
TS950-25-HA	2.5 oz	TS950-75	TS950-3	918-030-000
TS950-60-HA	6 oz	TS950-75	TS950-3	918-031-000
TS950-80-HA	8 oz	TS950-75	TS950-3	918-034-000
TS950-120-HA	12 oz	TS950-75	TS950-3	918-032-000

TS16 Manual Gun Assemblies

The lightweight TS16 Series Manual Gun Assembly is ideal for field applications where compressed air is not available.

Gun	Size	Handle	Retainer
TS16-25	2.5 oz	TS16	918-030-000
TS16-60	6 oz	TS16	918-031-000
TS16-80	8 oz	TS16-2	918-034-000
TS16-120	12 oz	TS16-2	918-032-000

Side-by-Side Dispensing Cartridges

Techcon Side-by-Side (SBS) Cartridges are precise metering containers for 2-component adhesives and sealants.

Available in 1:1, 2:1, 4:1 and 10:1 ratios, Techcon SBSs are made of Polypropylene (PP) to meet a wide range of chemical compatibility. Available in 50 ml, 200 ml, 400 ml and 490 ml sizes. Techcon SBS systems are fully sealed, ensuring thorough mixing and dispensing without air entrapment.

Key Features

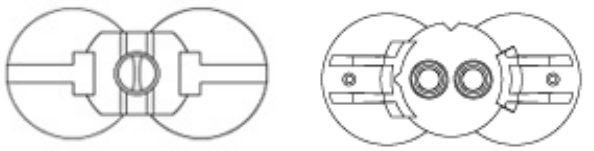
- 50 ml, 200 ml, 400 ml, 490 ml sizes
- Available in 1:1, 2:1, 4:1 and 10:1 ratios
- Made of Polypropylene (PP)
- Safe and easy to use
- Leakproof, minimal waste volume
- Compatible with most cartridge guns for high-quality results

Key Industries

- Automotive
- Construction
- Electronics
- Industrial
- Medical Device

Side-by-Side Specifications	
Capacities	50 ml, 200 ml, 400 ml, 490 ml
Mix Ratios	1:1, 2:1, 4:1, 10:1 (not all sizes)
Outlets Systems	Standard A-System, B-System**
Material	PP
Compatible with	Most standard cartridge guns
Sets include	Cartridges, caps, Plungers and O-rings
Quantities	100 or 500

Techcon dual cartridges are available in two outlet configurations



Standard Outlets A-System Separate Outlets B-System

**Please Note: Techcon 200 ml and 400 ml SBS "A-System" outlets are similar to other supplier's "C-System" outlets. 400/490 ml "B-System" outlets are similar to other supplier's "F-System" outlets. Please confirm compatability before purchase.

50 ml Part Numbers

System	Ratio	Description	Pack of 100	Pack of 500
A	1:1	50 ml SBS Set, 1:1, PP, A-sys.	SBS50-A1-100	SBS50-A1-500
A	2:1	50 ml SBS Set, 2:1, PP, A-sys.	SBS50-A2-100	SBS50-A2-500
B	1:1	50 ml SBS Set, 1:1, PP, B-sys.	SBS50-B1-100	SBS50-B1-500
B	2:1	50 ml SBS Set, 2:1, PP, B-sys.	SBS50-B2-100	SBS50-B2-500
B	10:1	50 ml SBS Set, 10:1, PP, B-sys.	SBS50-B10-100	SBS50-B10-500

200 ml Part Numbers (QTY 100)

System	Ratio	Description	Part No.
A	1:1	200 ml SBS Set, 1:1, PP, A-sys.	SBS200-A1-100

400/490 ml Part Numbers (QTY 100)

System	Ratio	Description	Part No.
A	1:1	400 ml SBS Set, 1:1, PP, A-sys.	SBS400-A1-100
A	2:1	400 ml SBS Set, 2:1, PP, A-sys.	SBS400-A2-100
B	1:1	400 ml SBS Set, 1:1, PP, B-sys.	SBS400-B1-100
B	2:1	400 ml SBS Set, 2:1, PP, B-sys.	SBS400-B2-100
B	4:1	400 ml SBS Set, 4:1, PP, B-sys.	SBS400-B4-100
B	10:1	490 ml SBS Set, 10:1, PP, B-sys.	SBS490-B10-100

PP = Polypropylene

TS-DSAD & TS-DCD Series

Dual-Syringe Dispensers

TS-DSAD

Techcon TS-DSAD Dual-Syringe Dispensers are designed to accommodate **50 ml side-by-side syringes** in ratios of 1:1, 2:1, 4:1 and 10:1.

TS-DSAD dispenses via pulsed air from a TS250 or TS350 Series Dispenser/Controller. A Robot Integration Bracket allows for semi-automated operation. And, TS-DSAD can be used with Techcon Disposable Material Path valves (TS5624DMP, TS5000DMP-DCX-SR, TS1212).

Key Features & Benefits

- Robust, stainless steel construction
- Hand-held or robot mounted operation
- Quick attachment/detachment of 50 ml side-by-side (SBS) dual-syringes
- Hanging ring for easy storage

TS-DSAD-50 Specifications	
Size	2.13" x 6.3" / 54 mm x 160 mm
Weight	0.94 lbs / 425 g
Air Inlet	1/8" NPT female
Activation Pressure	0 - 100 psi / 0 - 6.9 bar

TS-DSAD-50 Part Numbers		
P/N	**Ratio**	**Back Type**
TS-DSAD-50-11	1:1	Square Back
TS-DSAD-50-21	2:1	Square Back
TS-DSAD-50-41	4:1	Square Back
TS-DSAD-50-101	10:1	Round Back

TS-DSAD-50 Accessories	
P/N	**Description**
TSR-DSB50ML-3	Robot Bracket for TS-DSAD-50 Dispensers
TSR-1212BKIT	Robot Bracket Kit for TS1212 Valves
TS8120	Stand-alone Manual Vacuum Pickup Pen

Typical Applications

Dispensing Gap Filler, Encapsulant and Structural Adhesive

TS-DCD Dual-Cartridge Dispensers enable dispensing 2K materials from standard **200 ml and 400 ml side-by-side (SBS) dual cartridges.** Both TS-DCD versions dispense from 1:1 and 2:1 ratio SBS cartridges out of the box. An included conversion kit enabled dispensing from 4:1 and 10:1 cartridges.

TS-DCD combines the simplicity and versatility of SBS cartridges with bench-mount support, air logic controls and everything needed to convert SBS dual cartridges into a benchtop potting, encapsulation, bonding and dispensing system.

TS-DCD

Key Features & Benefits

Low cost & simple operation / Reduced operator fatigue / Adjustable shot control / Precise ratio control / Handles a variety of viscosities

TS-DCD Specifications		
	TS-DCD200	**TS-DCD400**
Size	33" x 12" x 12" 83.2 x 30.5 x 30.5 cm	36" x 12" x 12" 91.4 x 30.5 x 30.5 cm
Weight	3.52 lbs / 1.6 kg	4.85 lbs / 2.2 kg
Pneumatic Connection	1/4" / 6.35 mm OD	
Operating Pressure	85 psi / 5.86 bar Max.	
Compressed Air Supply	100 psi / 6.9 bar Max.	

TS-DCD Part Numbers	
TS-DCD200	Dual-Cartridge Dispenser, 200 ml
TS-DCD400	Dual-Cartridge Dispenser, 400 ml

Key Benefits

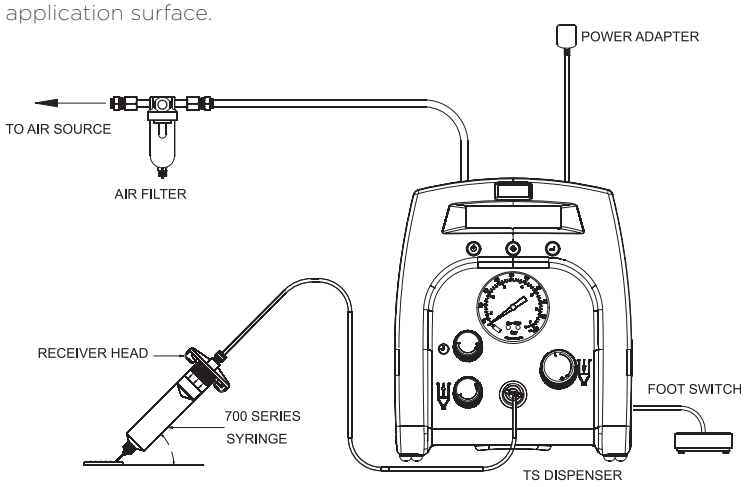
Bench top hands-free dispensing of epoxies, urethanes, acrylics, silicones and other adhesives / Laboratory testing & inspection

TS-DSAD-50 Configuration Chart					
Use	**Controller**	**Valve**	**Accessories**	**Vacuum**	**Robot Bracket**
Hand-held	TS250/TS350	n/a	n/a	n/a	n/a
Robot + Pinch Valve	TS555R	TS1212	TSR-1212BKIT	TS8120	TSR-DSB50ML-3
Robot + Diaphragm Valve	TS555R	TS5624DMP	5624DMP-FLB	TS8120	TSR-DSB50ML-3
Robot + Rotary Valve	TS577R	TS5000DMP-DCX-SR	n/a	TS8120	TSR-DSB50ML-3

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 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.



Viscosity Chart	
Material	**Viscosity (cps)**
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

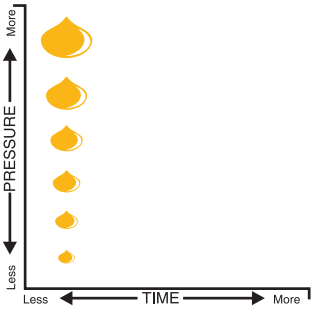
Shot Size Chart		
Dot Diameter	**Dot Volume**	**Dot Size (actual)**
0.010" (0.25 mm)	0.0000043 cc	·
0.020" (0.51 mm)	0.00003 cc	·
0.030" (0.76 mm)	0.0001 cc	•
0.040" (1.02 mm)	0.0003 cc	•
0.050" (1.27 mm)	0.0005 cc	•
0.060" (1.52 mm)	0.0009 cc	•
0.070" (1.78 mm)	0.0015 cc	●
0.080" (2.03 mm)	0.0022 cc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

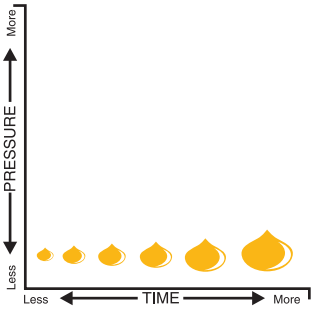
Basic Dispensing Guidelines

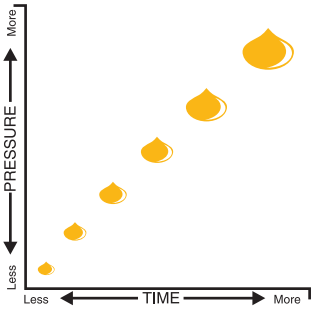
- Small Shot Size = small dispensing tip, low fluid pressure, short dispense time
- Large Shot Size = larger dispensing tip, higher fluid pressure, longer dispense time
- Low Viscosity Fluid = small dispensing tip, low pressure, time as required
- High Viscosity Fluid = larger dispensing tip (tapered 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 draw fluid into the dispenser.

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 larger dot size and vice versa







Valve Application Guide

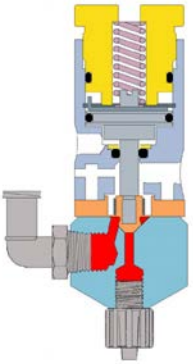
	Pinch (TS1212)	Needle (TS5420)	Micro Needle (TS5440)	Mini Spool (TS5322)	HP Spool (TS941)	Diaphragm (TS5620)[1] (TS5624DMP)[2]		Rotary DMP (TS5000-DMP)	Rotary (TS7000)	Spray (TS5540)	PC Pump (TS8100)	MMM (TS8200-MM)	Jet Valve (TS9800)
Catalog Page	25	23	23	24	24	21	22	19	20	26	18	17	16
Micro shots	✗	◆	✓	◆	◆	◆	◆	◆	✓	✗	◆	✗	✓
Dots	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓	✗	✓
Lines/Beads	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓	✗	✓
Potting & Encapsulation	◆	◆	✓	✓	✓	✓	✓	✓	✓	✗	✓	✗	✗
Packaging/ Filling	✓	✓	✓	✓	✓	✓	✓	◆	◆	✗	✓	✗	✗
High Pressure	✓	✗	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗
Sprayed	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗	✗
Jetting	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓
Viscosity													
High	✗	✗	✗	✓	✓	✗	✗	✓	✓	✗	✓	✓	✓
Medium	✗	✗	◆	✓	✓	✗	✗	✓	✓	✗	✓	✓	✓
Low	✓	✓	✓	◆	◆	✓	✓	✗	✗	✓	✓	✓	✓
Application													
Activators	✓	✓	✓	◆	◆	✓	✓	✗	✗	✓	✓	✗	✓
Alcohol	✓	✓	✓	◆	◆	✓	✓	✗	✗	✓	✓	✗	✓
Anaerobics	✓	✗	✗	✗	✗	✓	✓	✓	✗	✗	◆	✗	✗
Brazing Paste	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗	◆	✗	✗
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	✓	✗	✗	✗	✗	✓	✓	✓	✗	✗	◆	✗	✗

Excellent - ✓	Average - ◆	Do not use - ✗

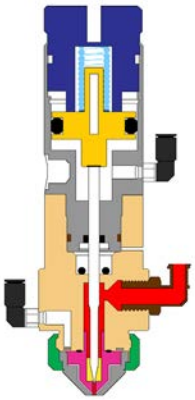
Disclaimer: The valve application guide is for reference only.
Please contact a Techcon applications engineer for accurate valve recommendations.

Valve Diagrams

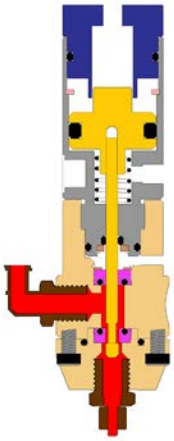
TS5620
Diaphragm Valve



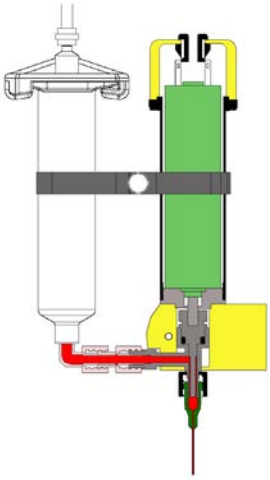
TS5540
Spray Valve



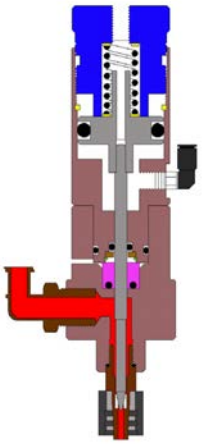
TS5322
Mini Spool Valve



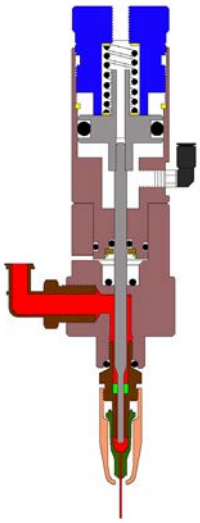
TS5000DMP-DCX
Diaphragm Valve



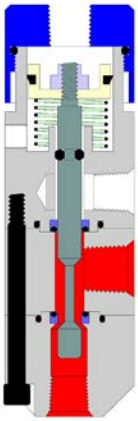
TS5420
Needle Valve



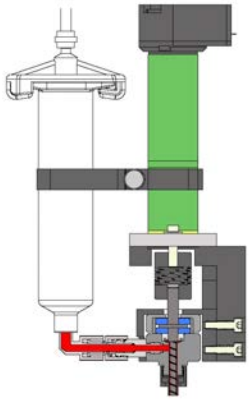
TS5440
Microshot Needle Valve



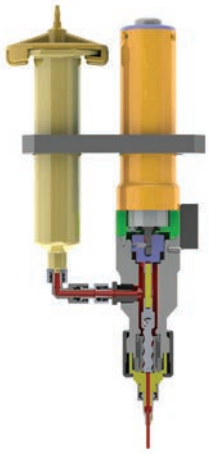
TS941
High Pressure Spool Valve



TS7000-DCX
IMP Rotary Valve



TS8100
PC Pump



APPENDIX

Cannula-Style Tips - Specifications

	ID (inches)	ID (mm)	Width Line (mm)	Tip Height (mm)
TT14	0.063	1.6	2.4	0.8
TT16	0.047	1.19	1.785	0.595
TT18	0.033	0.838	1.257	0.419
TT20	0.023	0.58	0.87	0.29
TT22	0.016	0.406	0.609	0.203
TT25	0.010	0.254	0.381	0.127
TT27	0.008	0.203	0.3045	0.101

Cartridge Conversion: Imperial & Metric

Imperial	Metric	Metric Techkit Volume
2.5 oz	**65 ml**	**50 ml**
6 oz	**165 ml**	**140 ml**
8 oz	**225 ml**	**210 ml**
1/10 gal	**310 ml**	**280 ml**
12 oz	**330 ml**	
20 oz	**600 ml**	**550 ml**

Dispensing Tip Color Coding & Gauge

TE Series & TE Bent Series 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
Lime Green		34	0.0037	0.095

Abbreviations Commonly Used in this Catalog

Abbreviation	Name
CA	Cyanoacrylate Adhesive
EPDM	Ethylene propylene diene monomer rubber
EPR	Ethylene Propylene Rubber
FFKM	Perfluoroelastomer
PE	Polyethylene
PEEK	Polyether ether ketone
PFE	Perfluoroelastomer
PP	Polypropylene
PU	Polyurethane
UHMWPE	Ultra-High Molecular Weight Polyethylene

While both FFKM and PFE refer to the same type of material (perfluoroelastomer), "PFE" often specifically denotes the line of perfluoroelastomers manufactured by 3M Dyneon™.

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