



**ENGINEERED
DISPENSING
SOLUTIONS**



ABOUT US

Fisnar is a leading manufacturer and supplier of precision fluid dispensing and handling solutions.

With over 50 years of knowledge of the dispensing industry and its global requirements, we have an accomplished range of products including robots, valves, dispensers, and a complete selection of consumables.

Armed with global engineering support and supply locations, Fisnar can provide a solution to suit every budget, application, and industry.

Explore options at fisnar.com

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DISPENSING CONSUMABLES



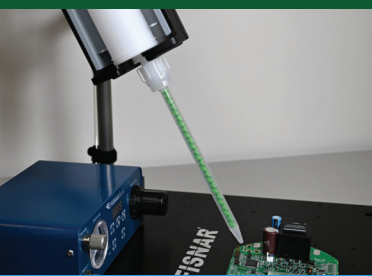
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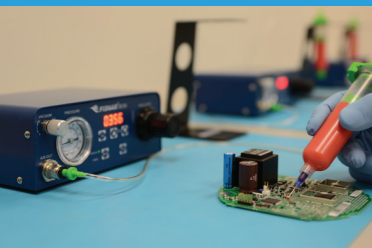
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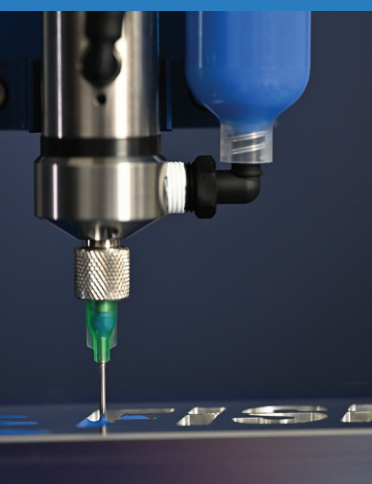
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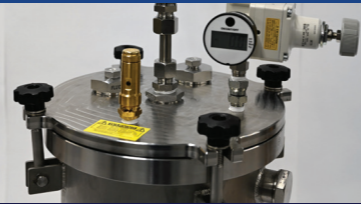
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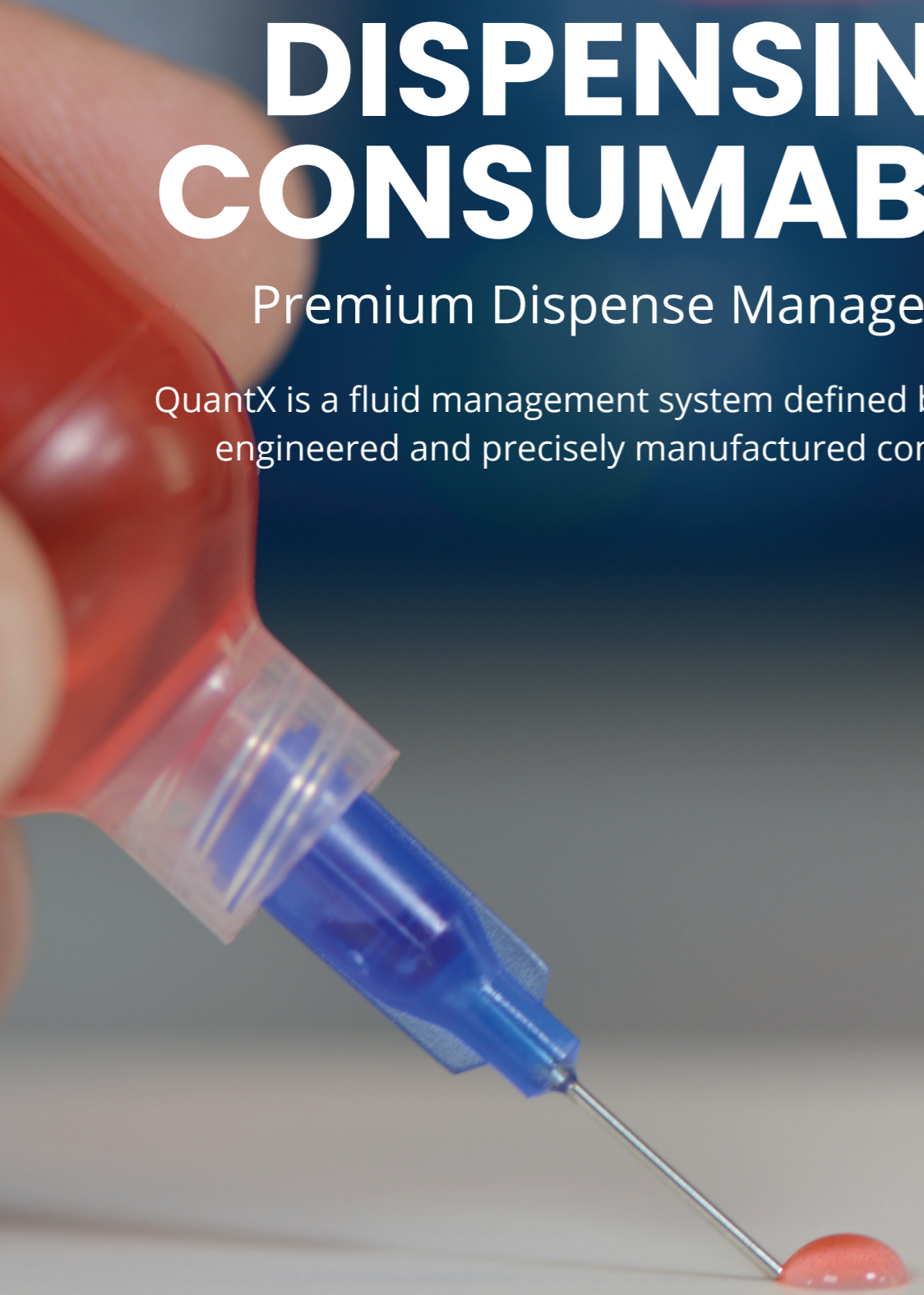
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QuantX™

DISPENSING CONSUMABLES

Premium Dispense Management

QuantX is a fluid management system defined by its carefully engineered and precisely manufactured components.



QuantX™ SYRINGE BARREL FILLING INSTRUCTIONS

LOW VISCOSITY FLUIDS – TOP FILLING

1. Connect a QuantX tip cap to the syringe barrel.
2. Fill the syringe barrel slowly with fluid to 1/2 full.
3. Insert a low viscosity (orange color) piston into the top of the syringe barrel. Do not allow it to come into contact with the fluid.
4. Connect the syringe barrel adapter assembly onto the syringe barrel.
5. Engage the safety clip onto the tubing of the barrel adapter assembly.
6. Remove the tip cap and install the required dispense tip.
7. Release the safety clip from the tubing of the barrel adapter assembly.
8. Adjust the vacuum suck-back on the dispenser to the point where fluid does not drip from the dispense tip, and external is not ingressed through the dispense tip and into the syringe barrel.



MEDIUM TO HIGH VISCOSITY FLUIDS – BOTTOM FILLING

1. Insert a smooth flow (green colored) piston into the syringe barrel and push it down to the very bottom of the syringe barrel.
2. Fill the syringe barrel from the luer lock end slowly with fluid to 3/4 full.
3. Connect the syringe barrel adapter assembly onto the syringe barrel.
4. Install the required dispense tip.
5. Set air output pressure to 0 psi, activate the dispenser and slowly increase the air output pressure until the desired fluid flow rate is achieved.
6. This is the recommended method for avoiding air entrapment to ensure consistent and repeatable dispensing.



MEDIUM TO HIGH VISCOSITY FLUIDS – TOP FILLING

1. Connect a QuantX tip cap to the syringe barrel.
2. Use a suitable tool to fill the syringe barrel from the open end slowly with fluid to 2/3 full.
3. Place the syringe barrel into a centrifuge to remove air that has been induced into the syringe barrel during the filling process.
4. Insert a flat wall (blue colored) piston into the syringe barrel until it makes contact with the fluid. To assist with the insertion of the piston, gently squeeze the outside of the syringe barrel while simultaneously pushing the piston onto the fluid material.
5. Connect the syringe barrel adapter assembly onto the syringe barrel.
6. Remove the tip cap and install the required dispense tip.
7. Set dispenser air output pressure to 0 psi, activate the dispenser and slowly increase air output pressure until the desired fluid flow rate is achieved.



QuantX™ SYRINGE BARREL KITS

Syringe barrel selection kits are available for validation of different size and color variations for both UV and non-UV materials.

The QK-CSK pictured includes all syringe barrels, adapter assemblies, and the most popular pistons and dispense tips.

Size	Clear	UV
3/5/10 cc	QK-3510	QK-3510UV
30/55 cc	QK-3055	QK-3055UV
Complete Kit	QK-CSK	



QK-3510



QK-3510UV



QK-3055



QK-3055UV



QK-CSK

QuantX™ SYRINGE BARRELS

QuantX syringe barrels feature a highly accurate manufacturing process that combines minimal resistance and parallel uniformity over the length of the syringe barrel.

Manufactured from premium grade silicone-free polypropylene rated for pressures up to 100psi and temperatures up to 100°F. These syringe barrels are available in clear for non-UV materials, amber for UV protection up to 550nm, and opaque black for maximum light protection.

QuantX syringe barrels have a round-sided design at the top which provides easier installation of QuantX barrel adapter assemblies.



Size	Clear	Amber	Black	I.D. (inch)	I.D. (mm)	O.D. (inch)	O.D. (mm)	Length (inch)	Length (mm)
3 cc	8001001	8001040	8001045	0.379	9.62	0.453	11.5	2.941	74.7
5 cc	8001002	8001041	8001046	0.500	12.72	0.567	14.6	2.756	70.0
10 cc	8001003	8001042	8001047	0.622	15.78	0.733	18.6	3.567	90.6
30 cc	8001004	8001043	8001048	0.891	22.62	1.000	25.4	4.634	117.7
55 cc	8001005	8001044	8001049	0.889	22.57	1.020	25.9	6.898	175.2





QuantX™ SYRINGE BARRELS & PISTON SETS

Syringe barrel and piston sets ensure that matched QuantX components are always used together to achieve optimal dispensing performance.

Size	Clear	Amber	Black
3 cc	8001058	8001063	8001068
5 cc	8001059	8001064	8001069
10 cc	8001060	8001065	8001070
30 cc	8001061	8001066	8001071
55 cc	8001062	8001067	8001072



QuantX™ SYRINGE BARREL PISTONS

-  Smooth flow green pistons prevent air entrapment and material waste by wiping the syringe barrel wall clean.
-  Flat wall blue pistons reduce potential stringing and bouncing when dispensing high viscosity fluids.
-  Low viscosity orange pistons prevent dripping of watery fluids and accidental back-flow into the dispenser.
-  Soft black rubber pistons prevent tunneling with high viscosity fluid materials.

Size	Smooth Flow Green	Flat Wall Blue	Low Viscosity Orange	Unlubricated Black	Lubricated Black
3 cc	8001006	8001010	8001506	8001510	8001514
5 cc	8001007	8001011	8001507	8001511	8001515
10 cc	8001008	8001012	8001508	8001512	8001516
30/55 cc	8001009	8001013	8001509	8001513	8001517

QuantX™ SYRINGE BARREL TIP CAPS

Tip caps provide an air-tight seal allowing storage of pre-filled syringe barrels.

Item Number	Type
8001038	Flat
8001039	Pointed - Green
5801427	Pointed - Clear
5801428	Pointed - Black
5801429	Pointed - White



QuantX™ SYRINGE BARREL END CAPS

End caps feature a push and twist design to ensure an air-tight seal at the top of the syringe barrel when being stored.

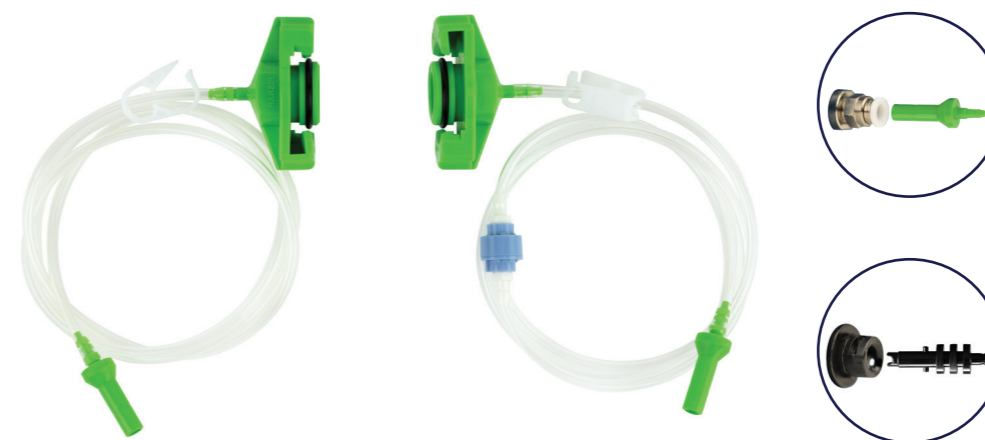


Size	Item Number
3 cc	8001034
5 cc	8001035
10 cc	8001036
30/55 cc	8001037

QuantX™ SYRINGE BARREL ADAPTER ASSEMBLIES

QuantX syringe barrel adapter assemblies are provided with a convenient push-to-connect fitting to connect to the controller from the syringe barrel. Fitted with NBR O-rings.

Available in two hose lengths. Optional micron filter trap prevents fluid and fumes from contaminating controller.



Green push-to-connect fitting comes assembled on all barrel adapter assemblies. For use with Fisnar DC50, DC50 MAX, and DC100 MAX controllers.

Black bayonet fitting also included for connection to quick-connect style controllers.

Size	3 ft (0.9 m)	6 ft (1.8 m)	3 ft with Filter (0.9 m)
3 cc	8001014	8001018	8001050
5 cc	8001015	8001019	8001051
10 cc	8001016	8001020	8001052
30/55 cc	8001017	8001021	8001053

QuantX™ ADAPTER HEAD WITH O-RING



Size	Item Number
3 cc	8001026
5 cc	8001027
10 cc	8001028
30/55 cc	8001029

QuantX™ ADAPTER HEAD O-RINGS



Size	NBR	FKM	EPDM
3 cc	8001030	8001054	8001518
5 cc	8001031	8001055	8001519
10 cc	8001032	8001056	8001520
30/55 cc	8001033	8001057	8001521

STRAIGHT SIDED SYRINGE BARREL ADAPTER ASSEMBLIES

Syringe barrel adapter assemblies are provided with a convenient push-to-connect fitting to connect to the controller from the syringe barrel. Fitted with NBR O-rings.

They are available in two hose lengths and optional micron filter-trap to prevent entry of fluids and fumes into the controller.



Blue push-to-connect fitting comes assembled on all barrel adapter assemblies. For use with Fisnar DC50, DC50 MAX, and DC100 MAX controllers.

Black bayonet fitting also included for connection to quick-connect style controllers.

Size	3 ft (0.9 m)	6 ft (1.8 m)	3 ft with Filter (0.9 m)
3 cc	5601034	5601038	5601490
5 cc	5601035	5601039	5601491
10 cc	5601036	5601040	5601492
30/55 cc	5601037	5601041	5601493

STRAIGHT SIDED ADAPTER HEAD WITH O-RING



Size	Item Number
3 cc	5601478
5 cc	5601479
10 cc	5601480
30/55 cc	5601481

STRAIGHT SIDED ADAPTER HEAD O-RINGS



Size	NBR	FKM	EPDM
3 cc	8001030	8001054	8001518
5 cc	8001031	8001055	8001519
10 cc	8001032	8001056	8001520
30/55 cc	8001033	8001057	8001521

SYRINGE BARREL ADAPTER ASSEMBLY COMPATIBILITY CHART

Adapter Head Type	Manufacturer	Syringe Barrel Series
	Fisnar	QuantX™
	Nordson EFD	Optimum
	Jensen Global	Premium
	Fisnar	500 Series
	Nordson EFD	Ultra
	Techcon	700 Series
	Semco	Hybrid
	Jensen Global	Standard
	Fishman	Genius Airfree

ADAPTER HEAD ASSEMBLY ACCESSORIES

Item Number	Description	
5606030-100FT	0.152" O.D. x 0.093" I.D. Tubing PU	
5606034	Safety Clip for 0.152" O.D. Tubing	
5606037	Fluid Filter Trap 0.125" Barb Nylon	
5606038	Fitting 1/4" Stem x 5/32" Barb PP	
5606038BL	Fitting 1/4" Stem x 5/32" Barb PP	

QuantX™ HIGH CAPACITY SYRINGE BARRELS

QuantX high capacity syringe barrels feature a highly accurate manufacturing process that combines minimal resistance and parallel uniformity over the length of the syringe barrel. Manufactured from premium grade silicone-free polypropylene.



Size	Natural	Black	I.D. (inch)	I.D. (mm)	O.D. (inch)	O.D. (mm)	Length (inch)	Length (mm)
100 cc	8011001	8011004	1.260	32.0	1.437	36.5	7.480	190
200 cc	8011002	8011005	1.583	40.2	1.783	45.3	9.055	230
300 cc	8011003	8011006	1.957	49.7	2.165	55.0	7.874	200

QuantX™ HIGH CAPACITY PISTONS



Pistons prevent air entrapment and material waste by wiping the syringe barrel wall clean.

Item Number	Smooth Flow Green
8011007	100 cc
8011008	200 cc
8011009	300 cc

QuantX™ HIGH CAPACITY END CAPS



End caps feature a push-on design to ensure an air-tight seal at the top of the syringe barrel when being stored.

Size	Item Number
100 cc	8011010
200 cc	8011011
300 cc	8011012

QuantX™ HIGH CAPACITY SYRINGE BARREL ADAPTER ASSEMBLIES

QuantX syringe barrel adapter assemblies are supplied with 1/4" O.D. tubing to connect between the adapter head and dispense controller. The adapter head is fitted with a NBR O-ring.

The 1/4" O.D. tubing allows the high capacity syringe barrel to be quickly pressurized and exhausted to ensure consistent dispense results from start to finish.



Size	6 ft (1.8 m)
100 cc	8011019
200 cc	8011020
300 cc	8011021

QuantX™ HIGH CAPACITY O-RINGS



Size	NBR	FKM
100 cc	8011016	8011022
200 cc	8011017	8011023
300 cc	8011018	8011024

QuantX™ TIP CAPS



Item Number	Type
8001038	Flat
8001039	Pointed

ALTERNATIVE DISPENSING CONFIGURATIONS:

Finger Switch Actuated (FS-501VDC)



100, 200, 300 cc High-Capacity Switch Assembly

Stand Mounted Assembly (562359U)



100, 200, 300 cc High Capacity Syringe Stand

Robot Mounted Assembly (562360U)



100, 200, 300 cc High Capacity Syringe Holder

All items shown sold separately.

QuantX™ HIGH CAPACITY SYRINGE BARREL DISPENSERS

The FSG-100E and FSG-200E are electrically controlled dispense tools that provide a high level of positional accuracy to the user when dispensing from high-capacity syringe barrels.

Used in conjunction with a DC50 MAX to dispense fluid materials in one of **two ways**:

Continuous: Fluid is dispensed continuously for as long as the trigger is pressed, allowing the user to determine the required amount of fluid to be applied.

Timed: When the trigger is pressed and released, fluid will be dispensed for a pre-set time according to the time displayed on the DC50 MAX for controlled repeatable shot sizes.



FEATURES

- Superior sealing ability on the cartridge
- Lightweight nylon construction
- 6 ft (1.8 m) 1/4" O.D. air line
- Rubberized trigger assembly
- Voltage-free electric actuation

Item Number	Description
FSG-100E	Syringe Dispenser - 100 cc (Electric Actuated)
FSG-200E	Syringe Dispenser - 200 cc (Electric Actuated)

BENEFITS

- Screw cap design ensures product safety
- Tethered cable assembly to prevent tangling
- Ergonomical design reduces operator fatigue
- Compatible with 100 cc and 200 cc high capacity syringe barrels



Item Number	Description
DC50 MAX	Precision Digital Dispenser



QuantX™ MANUAL SYRINGE BARREL PLUNGERS

An ergonomic, lightweight, reusable hand plunger for manually dispensing a variety of fluids.

Compatible for use with all QuantX syringe barrels, green smooth-flow, and black rubber pistons.

Size	Manual Plunger
3 cc	8401014
5 cc	8401015
10 cc	8401016
30 cc	8401018



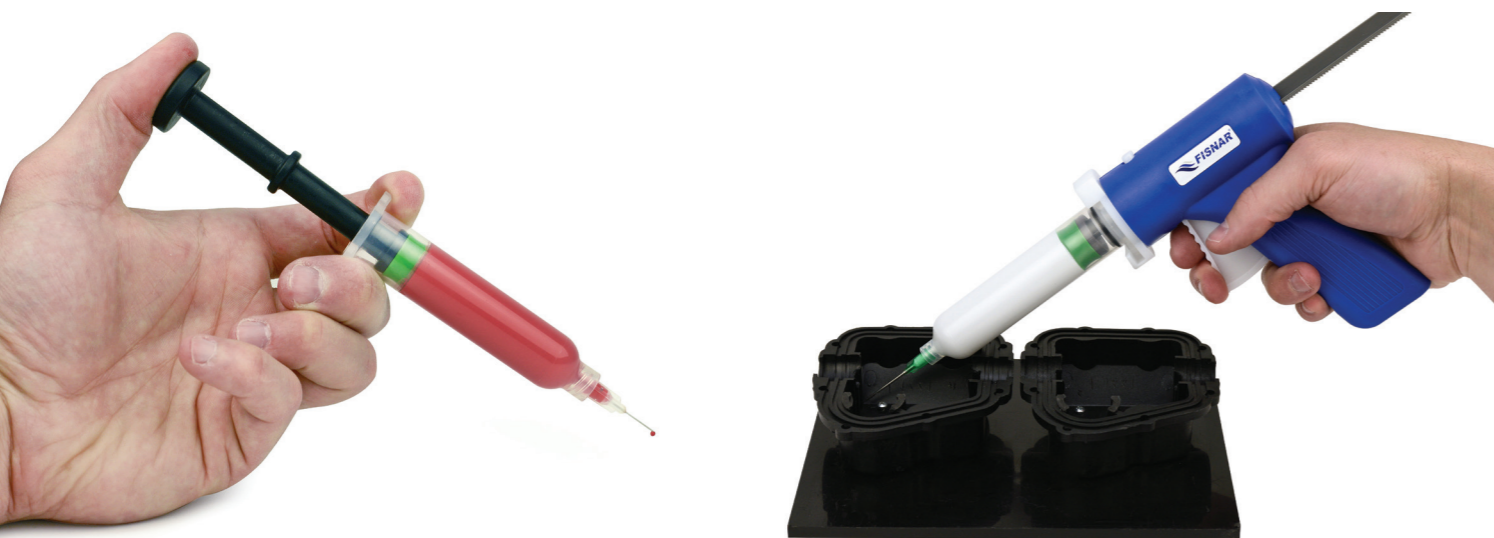
JD927 MANUAL SYRINGE BARREL DISPENSERS

Lightweight and comfortable dispensers with an easy twist-on barrel mounted design. Each squeeze of the trigger advances the plunger by 0.24" (6 mm) dispensing a precise amount of material every time.

These dispensers also feature an easy-to-use push-button release to retract the plunger when changing syringe barrels.



Size	Item Number
10 cc	JD927-10
30/55 cc	JD927-3055



LUER LOCK MANUAL SYRINGES, PLUNGERS, AND PISTONS

A range of disposable, non-sterile components that form a system to manually dispense a variety of fluids ranging from low to high viscosity.

Graduated or ungraduated, polypropylene, luer-lock style syringes are used in conjunction with a plunger and with a plunger and an un-lubricated rubber piston available for customer specific lubrication requirements.



Size	Ungraduated Luer Lock Syringe	Graduated Luer Lock Syringe	Plunger	Unlubricated Rubber Piston
3 cc	8401031	8401036	8401041	8401046
5 cc	8401032	8401037	8401042	8401047
10 cc	8401033	8401038	8401043	8401048
35 cc	8401034	8401039	8401044	8401049
60 cc	8401035	8401040	8401045	8401050

LUER LOCK MANUAL SYRINGE KITS

Supplied assembled using a silicone lubricated rubber piston.

Size	Ungraduated	Graduated
3 cc	8401001	8401006
5 cc	8401002	8401007
10 cc	8401003	8401008
35 cc	8401004	8401009
60 cc	8401005	8401012



LUER SLIP MANUAL SYRINGE KITS

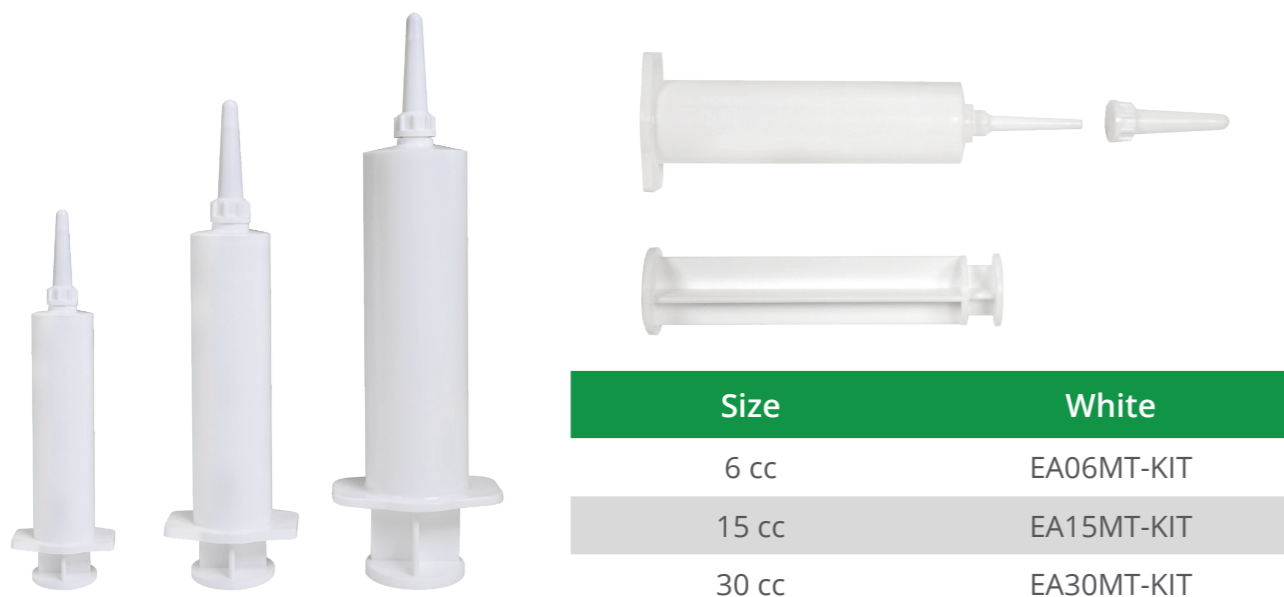
A range of disposable, non-sterile ungraduated polypropylene syringe systems featuring a luer slip fluid outlet to manually dispense a variety of fluids ranging from low to high viscosity.

The utilization of a plastic piston results in these manual syringes being an ideal choice in fluid dispensing applications where a silicone lubricant is not allowed. Supplied unassembled.



MOLDED TIP MANUAL SYRINGE KITS

Disposable polyethylene syringes with an integral tapered dispense tip.



BD PLASTIPAK™ NON-STERILIZED MANUAL SYRINGE KITS

A range of non-sterile, graduated polypropylene syringes with silicone lubricated synthetic elastomer (latex free) piston. Featuring a luer slip vs. slip luer fluid outlet to manually dispense a variety of materials ranging from low to high viscosity.

Size	Luer Slip	Luer Lock	Catheter Tip
1 cc	EA301025	EA309648	-
3 cc	EA301077	EA301073	-
5 cc	EA301028	EA301027	-
10 cc	EA301030	EA301029	-
20 cc	EA301032	EA301031	-
30 cc	-	EA301033	-
50 cc	EA301036	EA301035	EA301037



BD PLASTIPAK™ STERILIZED MANUAL SYRINGE KITS

A range of single-use, sterile graduated polypropylene syringe systems with a silicone lubricated synthetic elastomer (latex free) piston. Featuring a luer lock fluid outlet to manually dispense a variety of materials ranging from low to high viscosity. Complies with ISO 7886-1 for volumetric accuracy and leak tight performance.

Size	Luer Lock
1 cc	EA309628
3 cc	EA309657
5 cc	EA309646
10 cc	EA302995
20 cc	EA302830
30 cc	EA302832
50 cc	EA309653



STERILE TIP CAPS

Sterilized single-use caps provide an air-tight seal allowing storage of pre-filled syringe barrels.

Item Number	Type
EA305819	Pointed - Blue





DISPENSING TIPS

Fisnar offers a large selection of high-quality dispense tips in a variety of lengths, sizes, and styles including PTFE-lined, flexible polypropylene, stainless steel, brush, blunt end, angled blunt end, and tapered.

These high-performance fluid delivery systems provide accurate deposits of a variety of materials to meet your dispensing needs.

QUANTX™ BLUNT END DISPENSE TIPS

Blunt end tips are manufactured with polypropylene hubs and stainless steel cannulas. A double helix luer lock design and polished burr-free finish ensure precision fluid dispensing. For dispensing low to high viscosity fluids in general purpose dispense applications.

QUANTX™ TAPERED DISPENSE TIPS

Tapered smooth flow dispensing tips are designed to reduce back pressure of high viscosity fluids resulting in an increased fluid flow rate. A uniform polypropylene luer lock design with a flash-free outlet ensures consistent fluid dispensing.

QUANTX™ PTFE-LINED DISPENSE TIPS

Stainless steel cannulas with an internal PTFE lining, projecting approximately 1/8" (3.18 mm) from the cannula. Ideal for dispensing very low-viscosity fluids, solvents, and cyanoacrylates.

QUANTX™ FLEXIBLE DISPENSE TIPS

Polypropylene flexible dispense tips are designed to be used in hard-to-reach areas and to prevent scratching or damage to fragile dispense surfaces.

QuantX™ QK-NSK TIP SELECTION KIT

A selection of the most commonly used dispense tips (blunt end, tapered, PTFE lined, and flexible) in varying gauge sizes.



Color	Gauge	1/4" Blunt End	1/2" Blunt End	1/2" Flexible	1/2" PTFE	1" PTFE	Single Tapered
Olive	14	-	8001084	8001285	-	-	8001269
Amber	15	-	8001085	8001286	-	-	-
Black	16	-	8001086	-	-	-	-
Gray	16	-	-	-	8001252	8001254	8001270
Green	18	-	8001087	8001287	-	-	8001271
Pink	20	-	8001088	8001288	8001253	8001255	8001272
Purple	21	-	8001089	-	-	-	-
Blue	22	-	8001090	8001289	-	-	8001273
Orange	23	-	8001091	-	-	-	-
Red	25	-	8001092	8001290	-	-	8001274
Clear	27	-	8001093	-	-	-	-
White	27	-	-	-	-	-	8001298
Lavender	30	-	8001094	-	-	-	8001276
Yellow	32	8001083	-	-	-	-	-

QuantX™ DISPENSING SELECTION KIT

The DCK800X dispensing component kit is a convenient benchtop consumable storage and reference kit.

A careful selection of the most common dispensing components are included: blunt-end tips, tapered tips, angled tips, flexible tips, PTFE lined tips, brush tips, tip caps, and fittings.



Item Number	Description
DCK800X	Dispensing Selection Kit



The DCK800X Dispensing Component Kit contains three individual product ID cards to map the location, type, and size of the components contained in each position in the kit. Specific item information such as I.D., O.D., length, color, and gauge are given to help in the identification and selection of the items to best meet your application needs.

Top Drawer

Color	Gauge	Item Number	Description	Quantity
Navy Blue	12	8001123	1/2" Blunt End	4 ea
Magenta	13	8001124	1/2" Blunt End	4 ea
Olive	14	8001084	1/2" Blunt End	4 ea
Amber	15	8001085	1/2" Blunt End	4 ea
Black	16	8001086	1/2" Blunt End	4 ea
White	17	8001125	1/2" Blunt End	4 ea
Green	18	8001087	1/2" Blunt End	4 ea
Brown	19	8001126	1/2" Blunt End	4 ea
Pink	20	8001088	1/2" Blunt End	4 ea
Purple	21	8001089	1/2" Blunt End	4 ea
Blue	22	8001090	1/2" Blunt End	4 ea
Orange	23	8001091	1/2" Blunt End	4 ea
Sky Blue	24	8001127	1/2" Blunt End	4 ea
Red	25	8001092	1/2" Blunt End	4 ea
Beige	26	8001463	1/2" Blunt End	4 ea
Clear	27	8001093	1/2" Blunt End	4 ea
Gray	28	8001130	1/2" Blunt End	4 ea
Lavender	30	8001094	1/2" Blunt End	4 ea
Yellow	32	8001083	1/2" Blunt End	4 ea
Turquoise	33	8001116	1/2" Blunt End	4 ea
Green	-	8001039	Pointed Tip Cap	4 ea

*See pages 26 and 27 for middle drawer and bottom drawer content tables.



Middle Drawer

Color	Gauge	Item Number	Description	Quantity
Lime Green	10	8001217	Single Tapered	4 ea
Yellow	11	8001218	Single Tapered	4 ea
Sky Blue	13	8001219	Single Tapered	4 ea
Olive	14	8001269	Single Tapered	4 ea
Amber	15	8001220	Single Tapered	4 ea
Gray	16	8001270	Single Tapered	4 ea
Green	18	8001271	Single Tapered	4 ea
Pink	20	8001272	Single Tapered	4 ea
Purple	21	8001221	Single Tapered	4 ea
Blue	22	8001273	Single Tapered	4 ea
Orange	23	8001222	Single Tapered	4 ea
Red	25	8001274	Single Tapered	4 ea
White	27	8001298	Single Tapered	4 ea
Lavender	30	8001276	Single Tapered	4 ea
Olive	14	8001156	45 Degree	2 ea
Amber	15	8001157	45 Degree	2 ea
Green	18	8001158	45 Degree	2 ea
Pink	20	8001159	45 Degree	2 ea
Blue	22	8001161	45 Degree	2 ea
Red	25	8001163	45 Degree	2 ea
Clear	27	8001164	45 Degree	2 ea
Olive	14	8001166	90 Degree	2 ea
Amber	15	8001167	90 Degree	2 ea
Green	18	8001168	90 Degree	2 ea
Pink	20	8001169	90 Degree	2 ea
Blue	22	8001171	90 Degree	2 ea
Red	25	8001173	90 Degree	2 ea
Clear	27	8001174	90 Degree	2 ea



Bottom Drawer

Color	Gauge	Item Number	Description	Quantity
Olive	14	8001285	1/2" Flexible	2 ea
Amber	15	8001286	1/2" Flexible	2 ea
Green	18	8001287	1/2" Flexible	2 ea
Pink	20	8001288	1/2" Flexible	2 ea
Blue	22	8001289	1/2" Flexible	2 ea
Red	25	8001290	1/2" Flexible	2 ea
Olive	14	8001291	1 1/2" Flexible	2 ea
Amber	15	8001292	1 1/2" Flexible	2 ea
Green	18	8001293	1 1/2" Flexible	2 ea
Pink	20	8001294	1 1/2" Flexible	2 ea
Blue	22	8001295	1 1/2" Flexible	2 ea
Red	25	8001296	1 1/2" Flexible	2 ea
Black	-	5801449	1/4" NPT Male - Male Luer	1 ea
White	-	5801450	1/4" NPT Male - Male Luer	1 ea
Black	-	5801451	1/4" NPT Male - Female Luer	2 ea
White	-	5801452	0.170" Barb - Female Luer	4 ea
White	-	5801453	0.170" Barb - Male Luer	4 ea
Natural	-	5801454	Female Luer Coupling	4 ea
Amber	15	5701309	Soft White Bristle	2 ea
Amber	15	5701310	Stiff Black Bristle	2 ea
Gray	-	8001252	1/2" PTFE Lined	2 ea
Pink	-	8001253	1/2" PTFE Lined	2 ea
Gray	-	8001254	1" PTFE Lined	2 ea
Pink	-	8001255	1" PTFE Lined	2 ea

QuantX™ BLUNT END DISPENSE TIPS

A full selection of UV-bonded dispense tips manufactured with polypropylene hubs and stainless steel cannulas. A double helix luer lock design and polished burr-free finish ensures precision fluid dispensing. For dispensing low to high viscosity fluids in general purpose dispense applications.



TIP COVER = 5801430

A protective tip cover compatible for use with 1/4", 1/2", and 1" blunt end dispense tips.



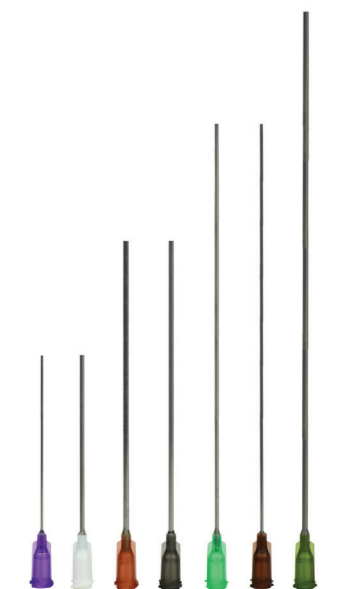
Color	Gauge	I.D. (inch)	I.D. (mm)	O.D. (inch)	O.D. (mm)	1/4" (6.35 mm)	1/2" (12.7 mm)	1" (25.4 mm)	1 1/2" (38.1 mm)
Navy Blue	12	0.089	2.27	0.109	2.77	8001118	8001123	8001131	8001138
Magenta	13	0.070	1.78	0.100	2.54	8001119	8001124	8001132	8001139
Olive	14	0.063	1.60	0.072	1.82	8001115	8001084	8001095	8001105
Amber	15	0.054	1.37	0.072	1.82	8001073	8001085	8001096	8001106
Black	16	0.047	1.20	0.065	1.64	8001074	8001086	8006031	8001495
White	17	0.041	1.04	0.059	1.50	8001120	8001125	8001133	8001140
Green	18	0.033	0.84	0.050	1.27	8001075	8001087	8001097	8001107
Brown	19	0.028	0.70	0.041	1.05	8001121	8001126	8001134	8001141
Pink	20	0.024	0.60	0.036	0.91	8001076	8001088	8001098	8001108
Purple	21	0.020	0.51	0.032	0.82	8001077	8001089	8001099	8001109
Blue	22	0.016	0.41	0.028	0.71	8001078	8001090	8001100	8001110
Orange	23	0.013	0.34	0.025	0.64	8001079	8001091	8001101	8001111
Sky Blue	24	0.012	0.31	0.022	0.56	8001122	8001127	8001135	8001142
Red	25	0.010	0.26	0.020	0.51	8001080	8001092	8001102	8001112
Beige	26	0.009	0.24	0.018	0.45	8001128	8001463	8001136	8001143
Clear	27	0.008	0.21	0.016	0.41	8001081	8001093	8001103	8001113
Gray	28	0.007	0.18	0.015	0.39	8001129	8001130	8001137	8001144
Lavender	30	0.006	0.16	0.012	0.31	8001082	8001094	8001104	8001114
Yellow	32	0.004	0.10	0.010	0.26	8001083	8001117	-	-
Turquoise	33	0.003	0.008	0.008	0.20	8001116	-	-	-

QuantX™ LONG LENGTH BLUNT END DISPENSE TIPS

A full selection of UV-bonded dispense tips manufactured with polypropylene hubs and stainless steel cannulas.

A double helix luer lock design and polished burr-free finish ensures precision fluid dispensing. For dispensing low to high viscosity fluids in general purpose dispense applications.

The long cannula design allows for fluids to be easily dispensed into hard to reach areas where conventional dispense tips cannot reach.



Color	Gauge	I.D. (inch)	I.D. (mm)	O.D. (inch)	O.D. (mm)	2" (50.8 mm)	3" (76.2 mm)	4" (101.6 mm)	5" (127 mm)
Navy Blue	12	0.089	2.27	0.109	2.77	8001314	8001330	8001341	8001351
Magenta	13	0.070	1.78	0.100	2.54	8001315	8001331	8001342	8001352
Olive	14	0.063	1.60	0.072	1.82	8001316	8001332	8001343	8001353
Amber	15	0.054	1.37	0.072	1.82	8001317	8001333	8001344	-
Black	16	0.047	1.20	0.065	1.64	8001318	8001334	8001345	-
White	17	0.041	1.04	0.059	1.50	8001319	8001335	8001346	-
Green	18	0.033	0.84	0.050	1.27	8001320	8001336	8001347	-
Brown	19	0.028	0.70	0.041	1.05	8001321	8001337	8001348	-
Pink	20	0.024	0.60	0.036	0.91	8001322	8001338	8001349	-
Purple	21	0.020	0.51	0.032	0.82	8001323	8001339	8001350	-
Blue	22	0.016	0.41	0.028	0.71	8001324	8001340	-	-
Orange	23	0.013	0.33	0.025	0.64	8001325	-	-	-
Sky Blue	24	0.012	0.31	0.022	0.56	8001326	-	-	-
Red	25	0.010	0.25	0.020	0.51	8001327	-	-	-
Beige	26	0.009	0.23	0.018	0.45	8001328	-	-	-
Clear	27	0.008	0.20	0.016	0.41	8001329	-	-	-



QX-TRT

The QX-TRT tip replacement tool ensures the secure installation and removal of dispense tips from a luer-lock connection.

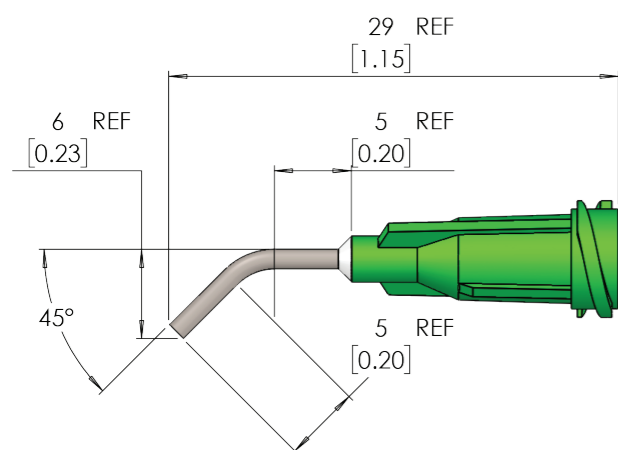
QuantX™ BLUNT END ANGLED DISPENSE TIPS

A selection of UV-bonded dispense tips manufactured with polypropylene hubs and stainless steel cannulas. A double helix luer lock design and polished burr-free finish ensures precision fluid dispensing. For dispensing low to high viscosity fluids in general purpose dispense applications.

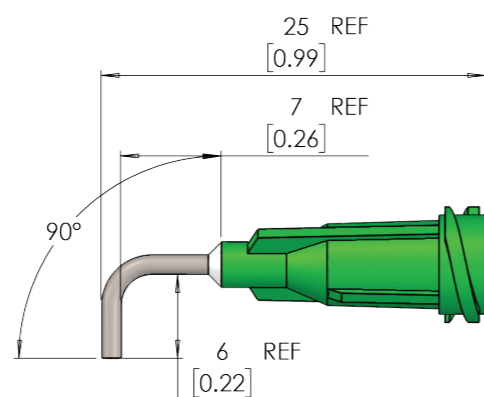


Color	Gauge	I.D. (inch)	I.D. (mm)	O.D. (inch)	O.D. (mm)	45 Degree	90 Degree
Olive	14	0.063	1.60	0.072	1.82	8001156	8001166
Amber	15	0.054	1.37	0.072	1.82	8001157	8001167
Green	18	0.033	0.84	0.050	1.27	8001158	8001168
Pink	20	0.024	0.60	0.036	0.91	8001159	8001169
Purple	21	0.020	0.51	0.032	0.82	8001160	8001170
Blue	22	0.016	0.41	0.028	0.71	8001161	8001171
Orange	23	0.013	0.33	0.025	0.64	8001162	8001172
Red	25	0.010	0.25	0.020	0.51	8001163	8001173
Clear	27	0.008	0.20	0.016	0.41	8001164	8001174
Lavender	30	0.006	0.15	0.012	0.31	8001165	8001175

45 Degree Tip Dimensions



90 Degree Tip Dimensions



QuantX™ FLEXIBLE DISPENSE TIPS

Polypropylene flexible dispense tips designed to be used in hard-to-reach areas and to prevent scratching or damage to fragile dispense surfaces.



Color	Gauge	I.D. (inch)	I.D. (mm)	O.D. (inch)	O.D. (mm)	1/2" (12.7 mm)	1 1/2" (38.1 mm)
Olive	14	0.063	1.60	0.078	1.98	8001285	8001291
Amber	15	0.054	1.37	0.070	1.78	8001286	8001292
Green	18	0.033	0.84	0.052	1.32	8001287	8001293
Pink	20	0.024	0.60	0.040	1.02	8001288	8001294
Blue	22	0.016	0.41	0.032	0.81	8001289	8001295
Red	25	0.010	0.25	0.032	0.81	8001290	8001296

QuantX™ PTFE-LINED DISPENSE TIPS

Stainless steel cannulas with an internal PTFE lining, projecting approximately 1/8" (3 mm) from the cannula. Ideal for dispensing very low viscosity fluids, solvents, and cyanoacrylates.

Color	PTFE I.D. (inch/mm)	SS Tube O.D. (inch/mm)	1/2" (12.7 mm)	1" (25.4 mm)
Gray	0.022/0.56	0.065/1.64	8001252	8001254
Pink	0.011/0.28	0.050/1.28	8001253	8001255



QuantX™ SINGLE TAPERED DISPENSE TIPS

Tapered smooth flow dispensing tips are designed to reduce back pressure of high viscosity fluids resulting in an increased fluid flow rate. An opaque polypropylene luer lock design with a flash-free outlet ensures consistent fluid dispensing.



Color	Gauge	I.D. (inch)	I.D. (mm)	Length (inch/mm)	Item Number
Lime Green	10	0.118	3.00	1.25/32	8001217
Yellow	11	0.098	2.50	1.25/32	8001218
Sky Blue	13	0.079	2.00	1.25/32	8001219
Olive	14	0.063	1.60	1.25/32	8001269
Amber	15	0.054	1.37	1.25/32	8001220
Gray	16	0.047	1.20	1.25/32	8001270
Green	18	0.033	0.84	1.25/32	8001271
Pink	20	0.024	0.60	1.25/32	8001272
Purple	21	0.020	0.51	1.25/32	8001221
Blue	22	0.016	0.41	1.25/32	8001273
Orange	23	0.013	0.33	1.25/32	8001222
Red	25	0.010	0.25	1.25/32	8001274
White	27	0.008	0.20	1.25/32	8001298
Lavender	30	0.006	0.15	1.25/32	8001276

SINGLE TAPERED TIP SELECTION KIT

Tapered tip selection kit contains five of each of the following sizes for testing and validation: 10, 11, 13, 14, 15, 16, 18, 20, 21, and 22 gauge.



Item Number
QK-TTK

QuantX™ DOUBLE TAPERED DISPENSE TIPS

Double tapered tips feature a unique fluid outlet design to reduce fluid wicking and dripping with low-viscosity materials.



Color	Gauge	I.D. (inch)	I.D. (mm)	Length (inch/mm)	Item Number
Orange	14	0.063	1.60	1.25/32	8001263
Gray	16	0.047	1.20	1.25/32	8001264
Green	18	0.033	0.84	1.25/32	8001265
Pink	20	0.024	0.60	1.25/32	8001266
Blue	22	0.016	0.41	1.25/32	8001267
Red	24	0.014	0.37	1.25/32	8001268

QuantX™ UV & LIGHT BLOCKING SINGLE TAPERED DISPENSE TIPS

Tapered tip selection kit contains five of each of the following sizes for testing and validation: 14, 16, 18, 20, 22, 25, and 27 gauge.



Color	Gauge	I.D. (inch)	I.D. (mm)	Length (inch/mm)	Item Number
Black	14	0.063	1.60	1.25/32	8001278
Black	16	0.047	1.20	1.25/32	8001281
Black	18	0.033	0.84	1.25/32	8001282
Black	20	0.024	0.60	1.25/32	8001283
Black	22	0.016	0.41	1.25/32	8001284
Black	25	0.010	0.25	1.25/32	8001279
Black	27	0.008	0.20	1.25/32	8001275

UV & LIGHT BLOCKING SINGLE TAPERED TIP SELECTION KIT

Tapered tip selection kit contains five of each of the sizes below for testing and validation purposes. 14, 16, 18, 20, 22, 25, 27 gauges.



Item Number
QK-UVTTK

QuantX™ MICRON-S PRECISION DISPENSE TIPS

Precision conical tips offer high accuracy, micro-dot dispensing due to their low-resistance, fluid flow design. These precision-machined tips have been specifically designed to improve flow rates and overall performance.

The thin rigid wall design enhances accuracy and definition of dots, lines, or special patterns while reducing fluid stringing or tailing tendencies. PTFE-coated versions reduce fluid wicking and dripping and are compatible with anaerobic fluids.



Color	Gauge	I.D. (inch)	I.D. (mm)	O.D. (inch)	O.D. (mm)	Standard Bore	Micron Bore	PTFE Coated
Pink	18	0.041	1.039	0.049	1.24	5901001	-	5901012
Tan	19	0.034	0.859	0.042	1.059	5901002	-	5901013
Green	20	0.027	0.681	0.035	0.879	5901003	-	5901014
Lt. Blue	21	0.024	0.610	0.032	0.810	5901004	-	5901015
Purple	23	0.022	0.564	0.025	0.635	5901005	-	5901016
White	25	0.017	0.437	0.020	0.508	5901006	-	-
Red	27	0.013	0.335	0.016	0.406	5901007	-	-
Black	30	0.009	0.234	0.012	0.305	5901008	-	-
Blue	150 um	0.006	0.16	0.010	0.24	-	5901009	-
Orange	100 um	0.004	0.11	0.008	0.20	-	5901010	-
Yellow	50 um	0.002	0.06	0.006	0.16	-	5901011	-

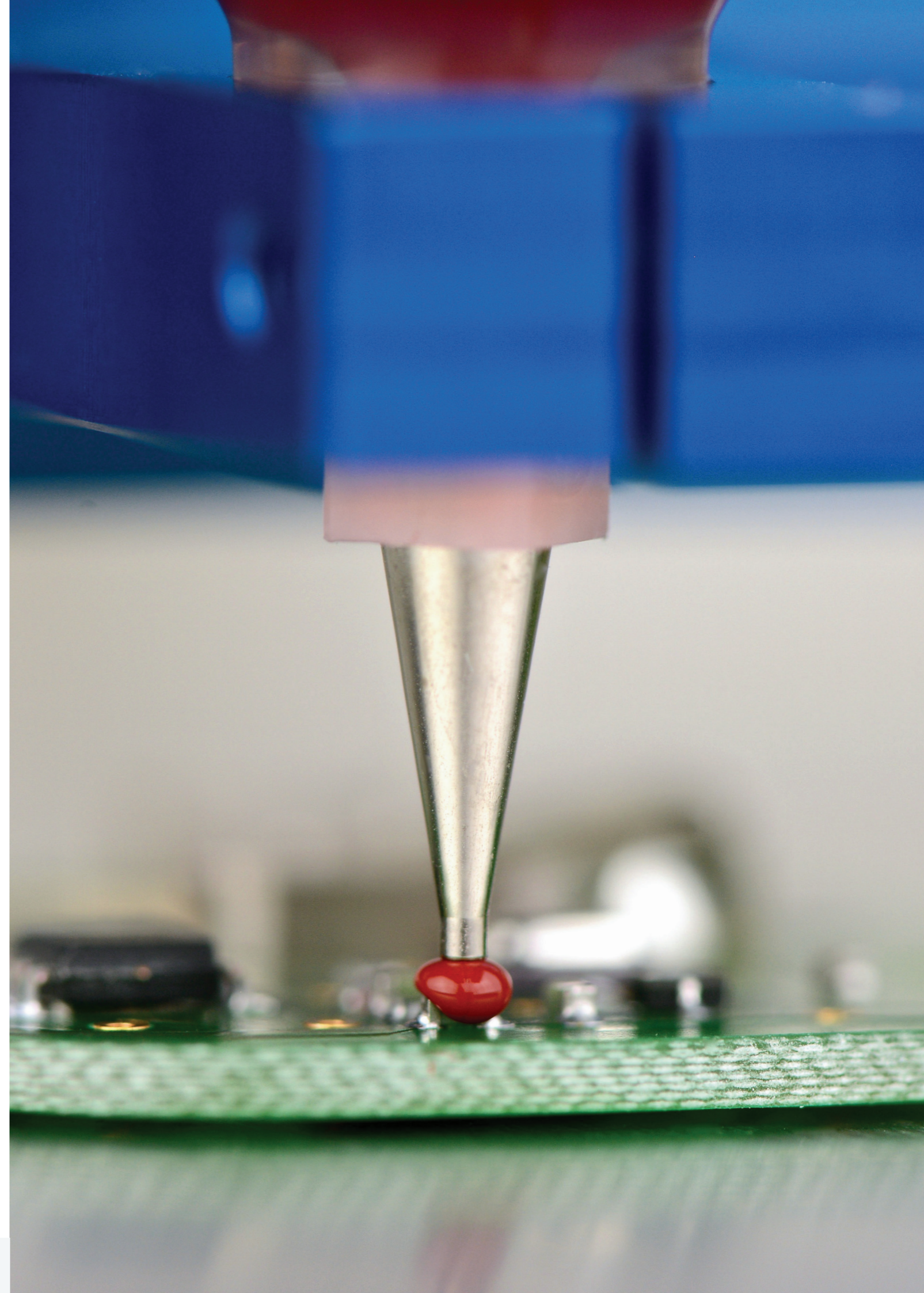
QuantX™ MICRON-S PRECISION DISPENSE TIP SELECTION KIT

Micron selection kit contains one each of the standard bore nozzle tip sizes for testing and validation purposes.



Item Number

QK-MSK



STAINLESS STEEL DISPENSE TIPS

Stainless steel dispensing tips are available in single or double cannula designs. Each stainless steel tip consists of a precision stainless steel cannula and nickel-plated brass hub designed to fit standard luer lock connections.

This range of tips can be sterilized by an autoclave process for applications requiring sterile dispensing components.



Custom lengths and diameters are available upon request.

Gauge	I.D. (inch)	I.D. (mm)	O.D. (inch)	O.D. (mm)	Single 1/2" (13 mm)	Double 3/4" (20 mm)
13	0.071	1.80	0.100	2.54	813050SS1	-
14	0.063	1.60	0.083	2.10	814050SS1	-
15	0.054	1.37	0.072	1.82	815050SS1	-
16	0.047	1.20	0.065	1.64	816050SS1	816050SS2
17	0.042	1.07	0.059	1.50	817050SS1	817050SS2
18	0.033	0.84	0.050	1.27	818050SS1	818050SS2
19	0.027	0.69	0.041	1.05	819050SS1	819050SS2
20	0.024	0.60	0.036	0.91	820050SS1	820050SS2
21	0.020	0.51	0.032	0.82	821050SS1	821050SS2
22	0.016	0.41	0.028	0.71	822050SS1	822050SS2
23	0.013	0.33	0.025	0.64	823050SS1	823050SS2
24	0.012	0.30	0.022	0.56	824050SS1	824050SS2
25	0.010	0.25	0.020	0.51	825050SS1	825050SS2
26	0.009	0.23	0.018	0.45	826050SS1	826050SS2
27	0.008	0.20	0.016	0.41	827050SS1	827050SS2
28	0.007	0.18	0.015	0.39	828050SS1	-
30	0.006	0.16	0.012	0.31	830050SS1	-

STAINLESS STEEL TIP SELECTION KIT

Stainless Steel (1/2") single tip selection kit contains one of each of the sizes below for testing and validation purposes; 13, 14, 15, 18, 20, 21, 22, 23, 25, 26, 27, 30 gauge.



LARGE BORE STAINLESS STEEL DISPENSE TIPS (LONG LENGTH)

Available in luer lock and 1/4" NPT threaded connections, these large bore tips provide increased fluid flow rates or deposits when needed.

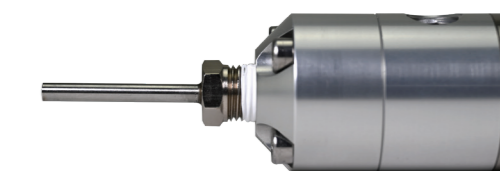
The long tube design allows for fluids to be easily dispensed into hard to reach areas where conventional dispense tips cannot reach.

Single Cannula Luer Lock Series

Gauge	I.D. (inch)	I.D. (mm)	1.5" (38 mm)	2.5" (64 mm)	3.5" (90 mm)
8	0.140	3.56	808150SS1	808250SS1	808350SS1
9	0.124	3.16	809150SS1	809250SS1	809350SS1
10	0.118	3.00	810150SS1	810250SS1	810350SS1
11	0.095	2.40	811150SS1	811250SS1	811350SS1
12	0.089	2.27	812150SS1	812250SS1	812350SS1
13	0.070	1.78	813150SS1	813250SS1	813350SS1
14	0.063	1.60	814150SS1	814250SS1	814350SS1
15	0.054	1.37	815150SS1	815250SS1	815350SS1

Single Cannula 1/4" NPT Series

Gauge	I.D. (inch)	I.D. (mm)	1.5" (38 mm)	2.5" (64 mm)	3.5" (90 mm)
7	0.143	3.64	807150T14	807250T14	807350T14
8	0.140	3.56	808150T14	808250T14	808350T14
9	0.124	3.16	809150T14	809250T14	809350T14
10	0.118	3.00	810150T14	810250T14	810350T14
11	0.095	2.40	811150T14	811250T14	811350T14
12	0.089	2.27	812150T14	812250T14	812350T14
13	0.070	1.78	813150T14	813250T14	813350T14
14	0.063	1.60	814150T14	814250T14	814350T14
15	0.054	1.37	815150T14	815250T14	815350T14



BRUSH TIPS

Brush tips are designed for spreading, brushing, and applying greases, adhesives, and fluid materials. Tips contain either sable or nylon bristles and come in three styles: Type A, Type B, and Economy, depending on application requirements.

TYPE A



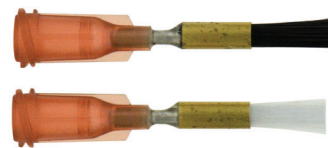
Gauge	Hub Color	Brush Diameter	Style	Item Number
16	Lavender	10 mm	Flat Sable	5701265
18	Pink	10 mm	Flat Sable	5701266
22	Black	10 mm	Flat Sable	5701267
16	Lavender	5 mm	Round Nylon	5701268
18	Pink	5 mm	Round Nylon	5701269
22	Black	5 mm	Round Nylon	5701270

TYPE B



Gauge	Hub Color	Brush Diameter	Style	Item Number
21	Purple	2 mm	Round Nylon	5702102
27	Clear	2 mm	Round Nylon	5702702
14	Olive	5 mm	Round Nylon	5701405
21	Purple	5 mm	Round Nylon	5702105
27	Clear	5 mm	Round Nylon	5702705
14	Olive	10 mm	Flat Nylon	5701410
21	Purple	10 mm	Flat Nylon	5702110
27	Clear	10 mm	Flat Nylon	5702710

ECONOMY



Gauge	Brush Diameter	Style	Item Number
15	3 mm	Round Soft Nylon	5701309
15	3 mm	Round Stiff Nylon	5701310

BRUSH TIP SELECTION KIT

Brush tip selection kits are available in two different options for testing and validation purposes. QK-BTK-A contains one of each Type A style brush tips. QK-BTK-B contains one of each Type B style brush tips.

Type	Item Number
A	QK-BTK-A
B	QK-BTK-B



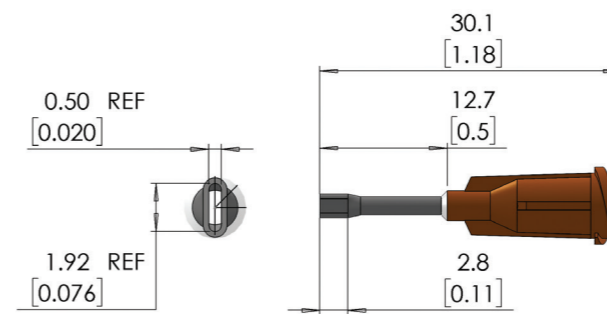
QuantX™ OVAL TIPS

Oval UV-bonded dispense tips manufactured with polypropylene hubs and stainless steel cannulas. A double helix luer lock design and polished burr-free finish ensure precision fluid dispensing. For dispensing low to high viscosity fluids in applications requiring a flat bead or ribbon to spread out the adhesive in a more uniform way.

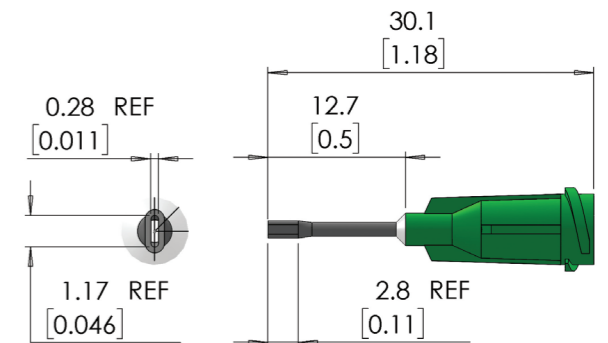
Color	Gauge	I.D. (inch)	I.D. (mm)	O.D. (inch)	O.D. (mm)	1/2" (12.7 mm)
Amber	15	0.054	1.37	0.072	1.82	8001145
Green	18	0.033	0.84	0.050	1.27	8001146



15 ga Oval Dispense Tip Dimensions



18 ga Oval Dispense Tip Dimensions



QuantX™ ESD SAFE DISPENSE TIPS



Used for dispensing medium to high viscosity fluids while blocking all UV and ambient light-emitting rays and wavelengths. For use within an ESD safe production environment

Color	Gauge	I.D. (inch)	I.D. (mm)	Length (inch/mm)	Item Number
Black	16	0.047	1.20	1.25/32	8501270
Black	18	0.033	0.84	1.25/32	8501271
Black	20	0.024	0.60	1.25/32	8501272
Black	25	0.010	0.25	1.25/32	8501274
Black	27	0.008	0.20	1.25/32	8501298
Black	30	0.006	0.15	1.25/32	8501276

QuantX™ ESD SAFE SYRINGE BARRELS

QuantX ESD safe syringe barrels are designed for maintaining an accurate and repeatable dispense process within an ESD safe production environment.

A special additive is used in the manufacturing process to prevent the products from generating an electrostatic charge when dispensing fluid materials used in the production of electronic devices.

Preventing electrostatic discharge during dispensing can minimize costly rejects by reducing the risk of damage to sensitive electronic components such as semiconductors.

To ensure compliance, ESD safe syringe barrels must be used with ESD safe syringe barrel adapter assemblies. ESD safe syringes barrels are designed to be used with Fisnar QuantX pistons.



ESD safe dispense tips sold separately. See page 34.

FEATURES

- Surface resistance <math>< 1 \times 10^6</math>
- Static decay rate <math>< 2</math> seconds
- Meets industry standard requirements for use in ESD safe environments. Laboratory test report available on request.

Size	Black	I.D. (inch)	I.D. (mm)	O.D. (inch)	O.D. (mm)	Length (inch)	Length (mm)
3 cc	8501001	0.379	9.62	0.453	11.5	2.941	74.7
5 cc	8501002	0.500	12.72	0.567	14.6	2.756	70.0
10 cc	8501003	0.622	15.78	0.733	18.6	3.567	90.6
30 cc	8501004	0.891	22.62	1.000	25.4	4.634	117.7
55 cc	8501005	0.889	22.57	1.020	25.9	6.898	175.2

WHAT IS ESD?

When two surfaces come into contact and separate, electrons move or can be given up to the other surface, causing an imbalance and thus an electrostatic charge is generated.

If two items are at different electrostatic charge levels, as they approach one another, a spark or electrostatic discharge can occur. This rapid transfer of electrostatic charge can generate heat and melt circuitry in electronic components, causing a component failure.

QuantX™ ESD SAFE SYRINGE BARREL ADAPTER ASSEMBLIES

QuantX ESD safe syringe barrel adapter assemblies are provided with a convenient push-to-connect fitting to connect to the dispenser and a 10 mm stud for connection to an earthing point. Fitted with NBR O-rings.

The earthing wire and pneumatic tubing are contained together in a tethered cable assembly to allow for a flexible and ergonomic working experience.

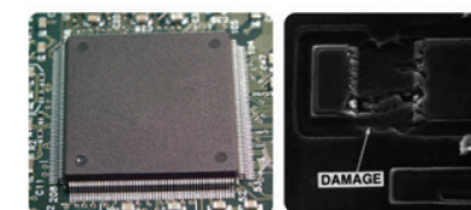
Size	6 ft (1.8 m)
3 cc	8501018
5 cc	8501019
10 cc	8501020
30/55 cc	8501021



QuantX™ ADAPTER HEAD O-RINGS



Size	NBR	FKM	EPDM
3 cc	8001030	8001054	8001518
5 cc	8001031	8001055	8001519
10 cc	8001032	8001056	8001520
30/55 cc	8001033	8001057	8001521



An electronic device "chip" internally damaged due to a static spark causing an ESD failure.

WHY WORRY ABOUT ESD?

Electrostatic discharge can damage sensitive electronic components, resulting in failures, reduced reliability, or latent component failures in the field.

While it is difficult to attribute specific failures to ESD damage, it is common for companies to prevent possible damage and reliability problems by storing, assembling and handling equipment under electrostatic safe conditions.

ESD WORKSTATION KIT

A comprehensive, easy-to-setup ESD safe workstation, supplied with all essential items to build a static controlled workspace environment.

It enables the user to stop any unnecessary damage to sensitive electronics components or devices when carrying out assembly processes (e.g. dispensing).

The supplied mat features a reflection breaking surface to reduce glare and improve operator comfort, and its excellent friction coefficient prevents sliding of delicate components.

FEATURES

- Heat resistant anti-slip 24" x 48" (600 mm x 1,200 mm) ESD mat
- Adjustable hypo-allergenic fabric wrist strap
- 12 ft (3.6 m) straight earth lead (10 mm stud both ends)
- Coiled earth lead (10 mm stud both ends)
- ESD bonding plug incorporates 3 x 10 mm studs
- 12" x 6" (300 mm x 150 mm) self-adhesive PVC ESD protected area sign

OPTIONAL HEEL STRAP ACCESSORY

Heel grounder assembly with 1 megohm resistor used to ground operators who are in contact with conductive and dissipative flooring. Features an exterior layer of conductive rubber, a non-marking rubber interior, 39" non-conductive ribbon, and adjustable fastener.



Models

Item Number	Description
ESD-WSK-US	ESD Workstation Kit - Type B & F Plug
ESD-WSK-EU	ESD Workstation Kit - Type F Plug
ESD-WSK-UK	ESD Workstation Kit - Type G Plug



Item Number

NS-HGC1M



FLOW-SEAL PENS & BOTTLES

Flow-seal pens and bottles are designed to channel controlled amounts of no-clean flux, solvents, lubricants, masking, water-based liquids, and more.

Flow-seal products prevent evaporation of material and conform to current regulations for controlling substances capable of evaporation hazards.

**All pens and bottles come supplied with chisel nib 381-8425-AC.*



FEATURES

- Priming is achieved by depressing the tip while the pen is vertical
- A unique dispensing valve prevents flooding and soaking by releasing material in controlled amounts
- Cap valve allows for easy removal of tips when cleaning or replacing
- Flow-seal pens are cost efficient as product is only delivered when required

Item Number	Description	Size	Material	Item Number	Description	Material
FV-0100	Flow-Seal Pen	0.34 oz/ 10 ml	HDPE (Clear)	381-8425-AC	Chisel Nib	Acrylic
FV-0200	Flow-Seal Pen (ESD Safe)	0.34 oz/ 10 ml	Aluminum	381-8425-AB	Bullet Nib	Acrylic
FV-0300	Flow-Seal Bottle	2 oz/ 59.14 ml	HDPE (Clear)	381-8425-AP	Pointed Nib	Acrylic
FV-0400	Flow-Seal Bottle (ESD Safe)	2 oz/ 59.14 ml	Aluminum	381-8425-PC	Chisel Nib	Polyester
FV-0500	Flow-Seal Bottle	4 oz/ 118.21 ml	HDPE (Clear)	381-8425-PB	Bullet Nib	Polyester
FV-0600	Flow-Seal Jumbo Pen	1.35 oz/ 40 ml	HDPE (Black)	381-600-PB	Blunt Tip (FV-0600 only)	Polyester

NIB TIP SAMPLE KIT

The QK-NTK sample kit includes two of each flow-seal nib tips: acrylic chisel, polyester chisel, polyester bullet, acrylic bullet, and acrylic pointed.

Item Number	Description
QK-NTK	Nib Tip Sample Kit



DIPIT™ BOTTLES

Dipit Touch-Pump bottles provide a clean method of delivery by conveniently presenting a small reservoir of solvent, cleaner, or alcohol. Fluid-ready for dipping a brush or wipe for assembly, production, or laboratory purposes. Ideal for PCB soldering operations and clean rooms. Prevents wasteful evaporation and contamination. Stainless steel lid and pump components.



Item Number	Description
5606026	4 oz Touch-Pump Bottle
5606027	8 oz Touch-Pump Bottle

DIPIT™ BRUSHES

Item Number	Description
5701272	Dipit™ Brush Delrin 1/4" Nylon Soft
5701273	Dipit™ Brush Zinc/Steel 3/8" Bristle
5701274	Dipit™ Brush Dual Head 3/16" - 1/4" Hard



SOLVENT WASH BOTTLES

A selection of wash bottles for the safe storage and use of solvents commonly used in manufacturing work environments. Their low-density flexible polyethylene construction ensures controlled squeeze dispense actuation with smooth bounce back that won't stiffen over time.

The wide mouth, easy fill bottles feature a self-venting design to prevent dripping and are labelled with GHS compliant chemical safety warning information. Color coded screw caps ensure easy identification for the user.



Item Number	Type	Cap Color	Size
EAWB1007	Self Label	White	500 ml
EAWB1012	Acetone	Red	500 ml
EAWB1030	Isopropanol	Yellow	500 ml

OVAL/ROUND DISPENSING BOTTLES



A selection of low-density, polyethylene (LDPE) squeeze bottles for manually dispensing a variety of fluids available in both oval and round bottle types. Caps and bottles are interchangeable based on application requirements. Caps come in different thread sizes and correspond to matching threads on bottles. *Bottles and caps sold separately.*

OVAL



Size	Thread	Oval Bottle	Luer Lock Cap	Luer Slip Cap	Spout Cap
1/2 oz	15 mm	EAOB0515	EALLC15	-	EASC15
3/4 oz	15 mm	EAOB07515	EALLC15	-	EASC15
2 oz	18 mm	EAOB218	EALLC18	EALSC18	EASC18
4 oz	20 mm	EAOB420	EALLC20	-	EASC20
8 oz	24 mm	EAOB824	EALLC24	-	EASC24

ROUND



Size	Thread	Round Bottle - Black	Round Bottle - Natural	Luer Lock Cap	Luer Slip Cap	Spout Cap
1/2 oz	15 mm	-	EARB0515	EALLC15	-	EASC15
1/2 oz	18mm	EARB0518-BK	-	EALLC18	EALSC18	EASC18
1 oz	18 mm	EARB118-BK	EARB118	EALLC18	EALSC18	EASC18
2 oz	18 mm	EARB218-BK	EARB218	EALLC18	EALSC18	EASC18
4 oz	24 mm	EARB424-BK	EARB424	EALLC24	-	EASC24
8 oz	24 mm	EARB824-BK	EARB824	EALLC24	-	EASC24
16 oz	28 mm	-	EARB1628	-	-	EASC28

CYLINDRICAL DISPENSING BOTTLES



A selection of high density, polyethylene (HDPE) cylindrical squeeze bottles for manually dispensing a variety of fluids. Caps and bottles are interchangeable based on application requirements. Caps come in different styles and thread sizes corresponding to matching thread sizes of the bottles. *Bottles and caps sold separately.*

CYLINDRICAL



Size	Thread	Cylindrical Bottle	Snap Top Cap	Spout Cap	Turret Cap	Ribbed Cap	Taperseal Cap
1 oz	20 mm	EACB120	EASTC20	EASC20	EATUC20	EARC20	EATSC20
2 oz	20 mm	EACB220	EASTC20	EASC20	EATUC20	EARC20	EATSC20
4 oz	24 mm	EACB424	EASTC24	EASC24	EATUC24	EARC24	EATSC24
8 oz	24 mm	EACB824	EASTC24	EASC24	EATUC24	EARC24	EATSC24
8 oz	38 mm	EACB838	-	EASC38	-	EARC38	EATSC38
16 oz	28 mm	EACB1628	EASTC28	EASC28	EATUC28	EARC28	EATSC28
32 oz	28 mm	EACB3228	EASTC28	EASC28	EATUC28	EARC28	EATSC28

700PTPU PINCH TUBE PEN

Pinch tube pens are ideal applicators for manually dispensing continuous beads or applying microdots of low viscosity liquids such as solvents and cyanoacrylates.

The disposable pinch tube is the only part of the pen that is in contact with the material and discarded when contaminated. The pinch tube pen can be connected via a wide range of interchangeable fittings to gravity fed or pressurized reservoirs.



Item Number	Description
700PTPU	Pinch Tube Pen

Replacement Parts & Accessories

Item Number	Description
5801449	Luer Lock Adapter - Black
5801450	Luer Lock Adapter - White
580045A	Pinch Tube (I.D. 0.10" x 4.10" long) - Natural
580045A-BLK	Pinch Tube (I.D. 0.10" x 4.10" long) - Black
580047A-10-24	Fluid Line PE (I.D. 0.10" x 24" long) - Natural
580047A-BLK-10-24	Fluid Line PE (I.D. 0.10" x 24" long) - Black

Item Number	Description
560666	500 ml Gravity Feed Bottle with Luer Lock Cap



Accessories

Item Number	Description
560670U	Gravity Feed Bottle Stand
580047A-07-24	Fluid Line PE (I.D. 0.07" x 24" long) - Natural
580047A-10-18	Fluid Line PE (I.D. 0.10" x 18" long) - Natural
580047A-10-36	Fluid Line PE (I.D. 0.10" x 36" long) - Natural
580047A-BLK-07-24	Fluid Line PE (I.D. 0.07" x 24" long) - Black
580047A-BLK-10-36	Fluid Line PE (I.D. 0.10" x 36" long) - Black



560670U Stand, 700PTPU pinch tube pen, fluid line, and dispense tip sold separately.



IJ2601N-SS-SP reservoir sold separately.

MIXING & MEASURING CUPS

Size	Graduated
1 oz	EAMXCUP1
4 oz	EAMXCUP4
17 oz	EAMXCUP17
16 oz	FMXCUP16
35 oz	FMXCUP35



FUNNELS

Size	Polypropylene
4 oz	EAFUN4
16 oz	EAFUN16



BEAKERS

Size	Polypropylene
34 oz/1,000 ml	EABKR34
68 oz/2,000 ml	EABKR68



MIXING STICKS

Size	Wooden
6"	EAMXST6
12"	FMXST12



CLEANING SWABS

Size	Wooden
3"	EACS3
6"	EACS6

CLEANING WIPES

Low lint fabric cleaning wipes come pre-saturated with IPA for general purpose cleaning applications. Designed to remove greases, oils, and adhesives, while leaving no residue after use. 5" x 8" size. 100 wipes per container.

Item Number	Description
7600 IPA	70% IPA / 30% H2O Cleaning Wipes
1610-100DSP	99.8% IPA Saturated Cleaning Wipes



CLEANING CLOTHS

Lint free cloths are ideal for use with cleaning solutions and solvents for preparing surfaces. They consist of a blend of polyester fibers and cellulose which makes it highly absorbent and tear resistant. 9" x 9" size, 100 wipes per bag.

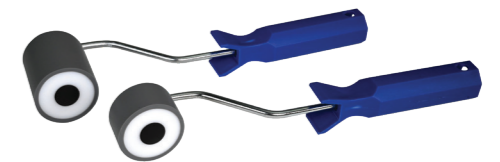
Item Number	Description
8099	Lint free cloths 9" x 9"



J-ROLLERS

J-Rollers are a simple and effective tool for applying even pressure across various surfaces when smoothing seams, or removing air pockets. They can also be used for applying and spreading non-curing adhesives for uniform dispersion and strong bonding performance.

Item Number	Description
5601994	1" J-Roller
5601995	2" J-Roller



PPE ACCESSORIES

Item Number	Description
SF101AS-BLK	Polycarbonate Safety Glasses - Clear Anti-Scratch Lens
CGM-GU	Comfort Grip Gloves (Nitrile Palm) - Medium
CGL-GU	Comfort Grip Gloves (Nitrile Palm) - Large
CGXL-GU	Comfort Grip Gloves (Nitrile Palm) - Extra Large



HIGH TEMPERATURE SYRINGE & CARTRIDGE

Fisnar offers a selection of commonly used products to allow for the precise and safe dispensing of fluid materials (e.g. PUR) that need to be dispensed at a high temperature on applications such as display bonding.

MEDMIX 30 CC HI-TEMP SYRINGE KIT

This 30 ml high temperature cartridge kit allows for fluid materials to be heated up to a temperature of 293 °F (145 °C) inside the syringe prior to dispensing. The extended tip cap allows it to be easily handled when the user is wearing heat resistant gloves. The system is ideally suited for dispensing polyurethane (PUR) or silicone reactive hot melt materials.



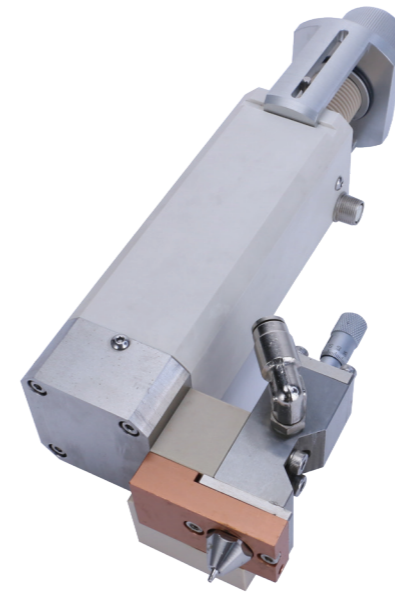
Item Number	Description
8601004-KIT	30 cc Syringe, End Cap & Tip Cap



1/10TH GALLON METAL CARTRIDGE KIT

Consisting of an empty aluminum cartridge, piston, and end cap used for filling and dispensing various heated fluids such as PSA hot melts, silicone hot melts, or PUR hot melt adhesives.

Item Number	Description
5601362-M	1/10th Gallon Metal Cartridge Kit



*ROBOTKIT-30PUR-AV
(For use with 30 cc syringes)



*HB720K EXTRUSION
(For use with 1/10th gallon cartridges)



*HCD300 (For use with 1/10th gallon cartridges).



CARTRIDGES

High-quality, disposable cartridges provide a clean and efficient method to meet all types of production requirements. For use in a wide range of applications including pre-mixed and frozen materials, as well as prepackaged products.

Available in a variety of different sizes and capacities. Can be used with manual, handheld, or pneumatic air-powered equipment.

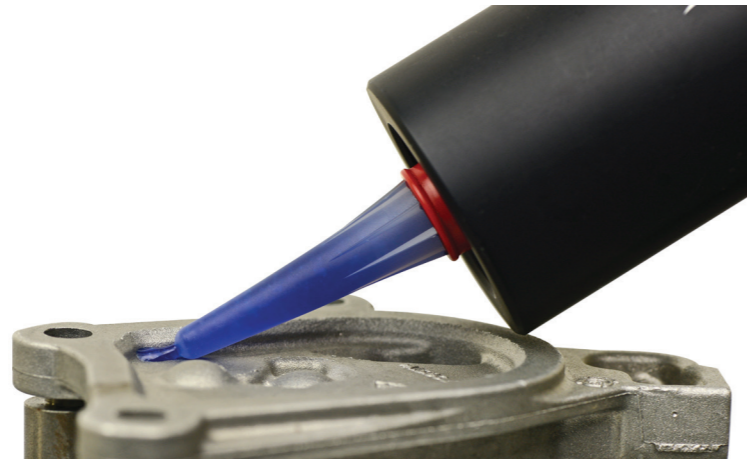
All cartridges are molded in either low or high density polyethylene. Black cartridges are designed for use with UV and light curing fluids.



Item Number	Color/Material	I.D. Diameter (inch/mm)	Overall Length (inch/mm)	Capacity (oz/ml)
EA25C-LD	Natural LDPE	1.59/40.40	4.00/101.60	2.5/74
EA60C-LD	Natural LDPE	1.59/40.40	7.11/180.60	6/177
EA80C-LD	Natural LDPE	1.59/40.40	8.92/226.60	8/237
EA120C-LD	Natural LDPE	1.59/40.40	12.34/313.40	12/355
EA110C-LD	Natural LDPE	1.85/47.00	8.99/228.30	12.8/310
EA25C-HD	Natural HDPE	1.59/40.40	4.00/101.60	2.5/74
EA60C-HD	Natural HDPE	1.59/40.40	7.11/180.60	6/177
EA80C-HD	Natural HDPE	1.59/40.40	8.92/226.50	8/237
EA120C-HD	Natural HDPE	1.59/40.40	12.34/313.40	12/355
EA110C-HD	Natural HDPE	1.85/47.00	8.99/228.30	12.8/310
EA200C-HD	Natural HDPE	2.57/65.30	10.03/254.80	20/591
EA25C-HD-BK	Black HDPE	1.59/40.40	4.00/101.60	2.5/74
EA60C-HD-BK	Black HDPE	1.59/40.40	7.11/180.60	6/177
EA80C-HD-BK	Black HDPE	1.59/40.40	8.92/226.50	8/237
EA120C-HD-BK	Black HDPE	1.56/40.40	12.34/313.40	12/355
EA110C-HD-BK	Black HDPE	1.85/47.00	8.99/228.30	12.8/310
EA200C-HD-BK	Black HDPE	2.57/65.30	10.03/254.80	20/590

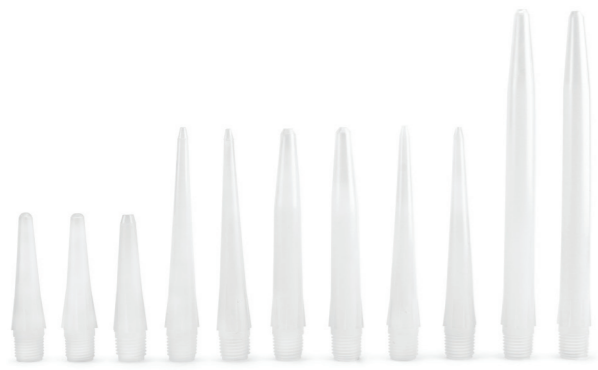
DISPENSING NOZZLES

Dispensing nozzles are precision molded from polyethylene and have 1/4" NPT male threads to fit cartridges, valves, and other compatible equipment.



STANDARD NOZZLES

Standard nozzles are designed to be used in applications requiring basic dispensing of beads and dots.



Item Number	Length (inch)	Diameter (inch)	Material
EA2160-HD	2	1/16	HDPE
EA2180-LD	2	1/8	LDPE
EA2180-HD	2	1/8	HDPE
EA4320-LD	4	1/32	LDPE
EA4320-HD	4	1/32	HDPE
EA4160-LD	4	1/16	LDPE
EA4160-HD	4	1/16	HDPE
EA4900-LD	4	3/32	LDPE
EA4180-LD	4	1/8	LDPE
EA6160-LD	6	1/16	LDPE
EA6180-LD	6	1/8	LDPE

SPECIALTY NOZZLES

Specialty nozzles are designed in a variety of styles for custom applications that require spreading, brushing, step filling, and more.



Item Number	Length (inch)	Dimension (inch)	Material	Nozzle Style
EA1050	4	1/2 x 1/16	HDPE	Spreader
EA1050-45	4	1/2 x 1/16	HDPE	45° Spreader
EA1075	4.5	3/4 x 1/8	HDPE	Spreader
EA1100	4.5	1 x 1/8	HDPE	Spreader
EA1175	4	1 3/4 x 1/8	HDPE	Spreader
EA3106	4	3/8 x 1/8	HDPE	Fillet Right Step
EA3206	4	3/8 x 1/8	HDPE	Fillet Left Step

CARTRIDGE PLUNGERS

Plungers ensure even pressure is applied to the fluid while preventing air tunneling to achieve controlled, repeatable dispensing. Their wipe-clean design reduces unused material. Available in low- or high-density polyethylene in a variety of sizes.

Item Number	Color	Description
EA1WP-LD-NT	Natural	2.5, 6, 8, 12 oz - Wiper LDPE
EA1WP-LD-BL	Blue	2.5, 6, 8, 12 oz - Wiper LDPE
EA1WP-LD-BK	Black	2.5, 6, 8, 12 oz - UV Blocking Wiper LDPE
EA110WP-LD-NT	Natural	1/10th gallon - Wiper LDPE
EA200WP-LD-NT	Natural	20 oz - Wiper LDPE
EA200WP-HD-NT	Natural	20 oz - Wiper HDPE



CARTRIDGE CAPS

End and tip caps are designed to seal out air for proper storage and handling purposes. Available in snap on, push on, and threaded styles.

Item Number	Description
EA2C	2.5, 6, 8, 12 oz - End Cap LDPE
EA110CP	1/10th gallon - End Cap LDPE
EA6C	20 oz - End Cap LDPE
EA3P	Threaded Tri-Seal Cap PE
EA4P	Threaded Tip Cap PE
EA5P	Snap On Tri-Seal Tip Cap PE
EA9X	Snap On Tip Cap PE



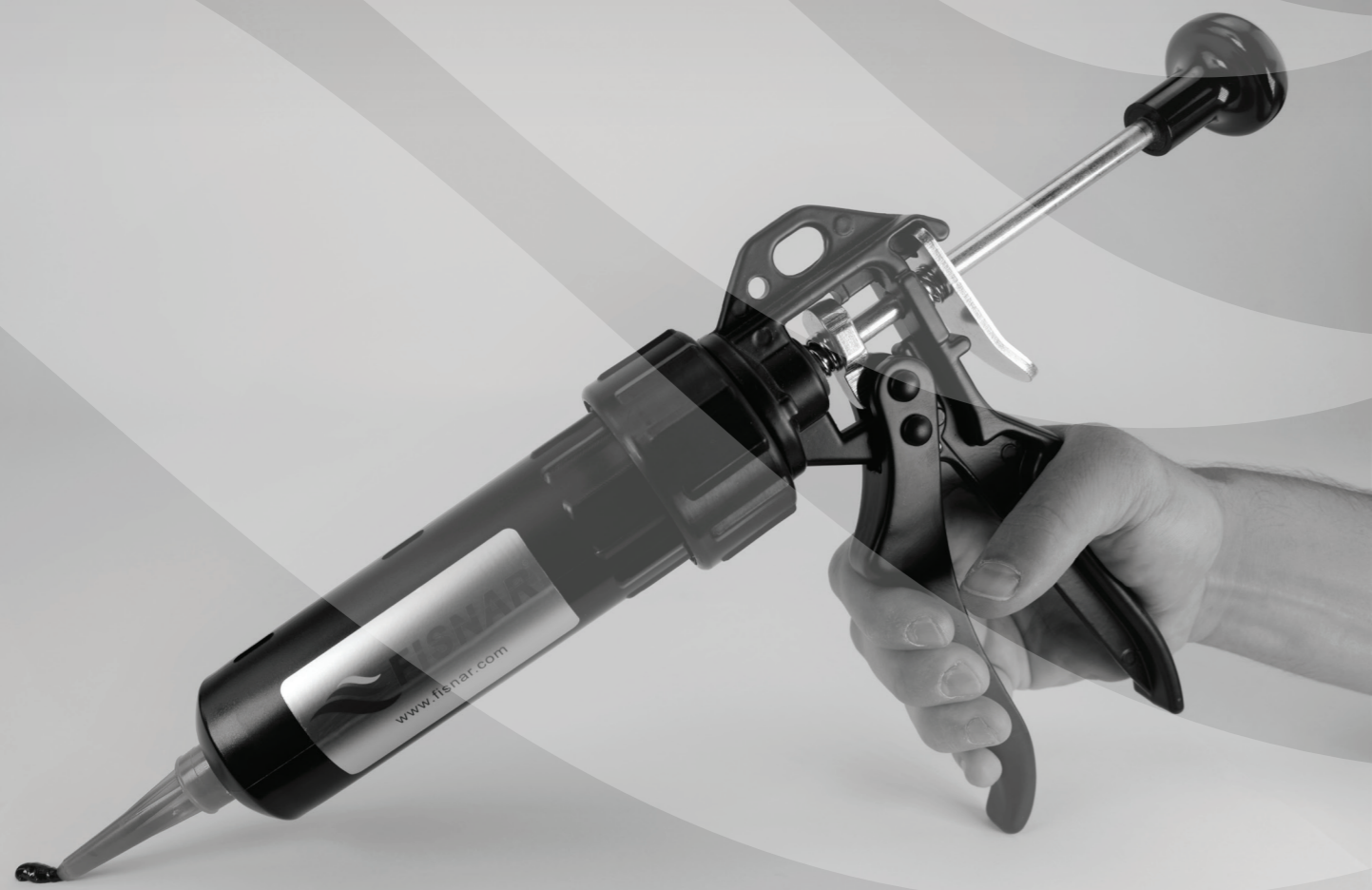
CARTRIDGE TIP ADAPTERS

1/4" NPT tip adapters for use with cartridges and valves fitted with 1/4" NPT female threads. Allows for the use of QuantX™ dispense tips with luer lock hubs.

Item Number	Description
5801420	Tip Adapter - Nickel Plated Brass
5801449	Tip Adapter - Black Polypropylene
5801450	Tip Adapter - White Polypropylene



1-COMPONENT CARTRIDGE DISPENSING EQUIPMENT



CARTRIDGE RETAINERS & CAPS

Heavy duty, light-weight aluminum and nylon retainers that can withstand up to 100 psi (6.9 bar) pressures. Cartridge retainers accommodate all corresponding Techcon cartridge sizes.

Retainer body, cap, and hose sold separately.

METAL CARTRIDGE RETAINERS

Item Number	Description
918-030-000	2.5 oz Cartridge Retainer Body
918-031-000	6 oz Cartridge Retainer Body
918-034-000	8 oz Cartridge Retainer Body
918-032-000	12 oz Cartridge Retainer Body
5601376	Retainer Cap with Sealing Ring/Fittings
5601377	Retainer Cap with Regulator Gauge
5601378	2.5, 6, 8, and 12oz Retainer Cap Seal
5601357	Connecting Hose (5 ft)



NYLON CARTRIDGE RETAINERS

Item Number	Description
5801379	2.5 oz Cartridge Retainer Body
5801380	6 oz Cartridge Retainer Body
5801381	8 oz Cartridge Retainer Body
5801382	12 oz Cartridge Retainer Body
5801388	Retainer Screw Cap
5801389	Retainer Cap with Regulator Gauge
5801388-SEAL	2.5, 6, 8, and 12oz Retainer Cap Seal
560524	Connecting Hose (6 ft)



CARTRIDGE RETAINER STANDS AND PISTOL GRIP ASSEMBLY

Item Number	Description
560535-TU	2.5, 6, 8, 12 oz Metal Retainer Cartridge Stand
560535-NU	2.5, 6, 8, 12 oz Nylon Retainer Cartridge Stand
560598DC	Pistol Grip Assembly - For use with DC50/DC50 MAX/DC100 MAX



1/10TH GALLON NYLON RETAINER ASSEMBLY

The 5801383-KIT nylon cartridge retainer assembly includes a nylon-molded retainer along with a durable nylon molded screw-cap assembly and 6 ft connecting hose. It is economical, lightweight, and designed for pneumatically pressurizing standard caulking cartridges (1/10th gallon and 300/310 ml) to achieve controlled fluid dispense results. It has the ability to withstand up to 100 psi (6.9 bar) pressures.

Item Number	Description
5801383-KIT	1/10th Gallon Cartridge Retainer Assembly with Hose
5801383	1/10th Gallon Retainer Body
5801384	1/10th Gallon Retainer Cap
5801384-SEAL	Seal (NBR) for Retainer Cap
5801385	Retainer Cap with Regulator Gauge
560524	Connecting Hose (6 ft)
562027	Spacer



NYLON CARTRIDGE RETAINER ASSEMBLIES

Durable, nylon molded, screw cap retainers are lightweight, and can withstand up to 100 psi (6.9 bar) pressures. Cartridge retainers accommodate 2.5, 6, 8, and 12 oz cartridges. Compatible with Techcon, Semco, and EFD-style cartridge systems. Retainer, cap, and hose come supplied with each kit.

Item Number	Description
5801379-KIT	2.5 oz Cartridge Retainer Assembly with Hose
5801380-KIT	6 oz Cartridge Retainer Assembly with Hose
5801381-KIT	8 oz Cartridge Retainer Assembly with Hose
5801382-KIT	12 oz Cartridge Retainer Assembly with Hose



CARTRIDGE RETAINER STANDS

Item Number	Description
560549-NU	1/10th Gallon Nylon Retainer Cartridge Stand
560535-NU	2.5, 6, 8, 12 oz Nylon Retainer Cartridge Stand



CR300 1/10TH GALLON CARTRIDGE RETAINER ASSEMBLY

The CR300 was developed with a new seal design for greater seal performance and durability by sealing directly onto the inside of the inserted cartridge.

Fully compatible with 1/10th gallon plastic and metal caulking type cartridges (300/310 ml). This high-grade anodized alloy retainer and cap ensures a safe, comfortable dispensing pressure of up to 100 psi (6.9 bar).

With high performance and unique versatility, this retainer can be used as a pressurized fluid reservoir system in conjunction with a Fisnar dispense valve.

Hose included standard with CR300.

FEATURES

- Supplied with a universal air-inlet for effortless system installation and integration
- Quick and easy screw on cap can be attached directly to a Fisnar air-powered dispenser
- Works efficiently with 1/10th gallon cartridge adapter nuts to convert the male thread on a standard caulking type cartridge to a conventional female 1/4" NPT thread



*560549U stand sold separately.

Item Number	Description
CR300	Cartridge Retainer Assembly (Retainer, Cap, Seal, and Hose)

Spare Parts

Item Number	Description
CR300-SEAL	Seal (NBR) for Retainer Cap
562146	Quick Connect Hose (6 ft)

Optional Accessories

Item Number	Description
560549U	Cartridge Retainer Stand
562027-22	Centering Spacer 22 mm I.D.
562027-25	Centering Spacer 25 mm I.D.

CARTRIDGE ADAPTER NUTS

Used for converting male thread on a 310 ml (1/10th gallon) cartridge to a 1/4" NPT female thread. 1/4" NPT nozzles, tip adapters, or fittings can be connected to allow material dispensing directly from the cartridge.

Item Number	Description
561129-SS	Cartridge Adapter 1/4" NPT x 5/8"-11 UNC 303 Stainless Steel (Fischbach)
561129	Cartridge Adapter 1/4" NPT x 5/8"-11 UNC White Acetal (Fischbach)
562317	Cartridge Adapter 1/4" NPT x 13/16-14 UNC Black Acetal (Threebond and SuperX)
560546	Cartridge Adapter 1/4" NPT Female Polyethylene



CR570 20 OZ CARTRIDGE RETAINER ASSEMBLY

The CR570 20 oz cartridge retainer has been designed for use with Techcon, Semco, and EFD 20 oz plastic cartridges.

The seal design delivers greater performance and durability by sealing directly onto the inside of the inserted cartridge.

The high-grade anodized aluminium retainer and cap provide a safe dispensing pressure of up to 100 psi (6.9 bar). The high performance heavy duty design also makes this system ideal for use in industrial environments and ensures long lasting use.



*560534U stand sold separately.

Item Number	Description
CR570	20 oz Cartridge Retainer Assembly (Retainer Body, Cap, Seal, and Hose)

Spare Parts

Item Number	Description
CR570-SEAL	Seal (NBR) for Retainer Cap
562146	Quick Connect Hose

Optional Accessories

Item Number	Description
560534U	20/32 oz Cartridge Retainer Stand

FEATURES

- Compatible for use with Techcon, Semco, and EFD 20 oz cartridges
- Machined slots in retainer body allow for the fluid level inside the inserted cartridge to be easily monitored
- Quick connect air-inlet connector allows for the safe removal of compressed air from the retainer when replacing the cartridge
- Can be attached directly to a Fisnar dispense controller or used as a valve fluid feed system/reservoir

CR910 32 OZ CARTRIDGE RETAINER ASSEMBLY

The CR910 32 oz cartridge retainer has been designed for use with Semco and EFD 32 oz plastic cartridges.

The seal design delivers greater performance and durability by sealing directly onto the inside of the inserted cartridge.

The high-grade anodized aluminium retainer and cap provide a safe dispensing pressure of up to 100 psi (6.9 bar). The high performance heavy duty design also makes this system ideal for use in industrial environments and ensures long lasting use.



*560534U stand sold separately.

FEATURES

- Compatible for use with Semco and EFD 32 oz cartridges
- Machined slots in retainer body allow for the fluid level inside the inserted cartridge to be easily monitored
- Quick connect air-inlet connector allows for the safe removal of compressed air from the retainer when replacing the cartridge
- Can be attached directly to a Fisnar dispense controller or used as a valve fluid feed system/reservoir

Item Number	Description
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CR910	32 oz Cartridge Retainer Assembly (Retainer Body, Cap, Seal, and Hose)
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Spare Parts

Item Number	Description
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CR910-SEAL	Seal (NBR) for Retainer Cap
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562146	Quick Connect Hose
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Optional Accessories

Item Number	Description
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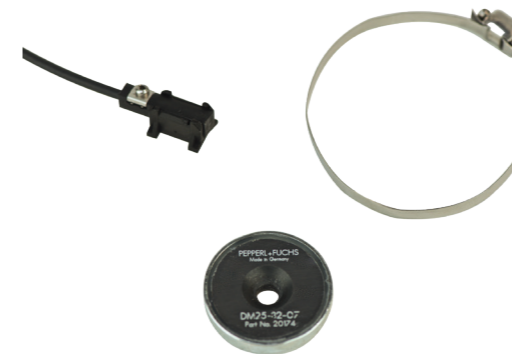
560534U	20/32 oz Cartridge Retainer Stand
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CARTRIDGE RETAINER LOW LEVEL SENSOR KITS

Low level sensor kits automatically detect when a cartridge's fluid is running low. To use, the operator places a magnet onto the top of the piston. As the magnet drops with the piston, it eventually reaches a sensor on the outside of the retainer and triggers a notification that fluid is low.

The exterior sensor can be adjusted to different alert levels with the included mounting band. Usage of a low level sensor improves process control and product yield, and helps prevent fluid from running out during a dispensing process.

The use of a low level sensor kit improves process control and product yield, while preventing the risk of fluid material running out during a dispensing process.



Item Number	Description
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CRN-LS	Low Level Sensor Kit - 5801380/5801381/5801382 (Cylinder Switch, Cable, Mounting Band, and Magnet)
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CR300-LS	Low Level Sensor Kit - CR300 (Cylinder Switch, Cable, Mounting Band, and Magnet)
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CR570/910-LS	Low Level Sensor Kit - CR570/CR910 (Cylinder Switch, Cable, Mounting Band, and Magnet)
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Spare Parts

Item Number	Description
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5801390	Cylinder Switch - 0.3 m (with M8 Connector)
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5801391	M8 Connecting Cable - 5 m
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5801392	Mounting Band - CR300/5801380/5801381/5801382
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5801393	Mounting Band - CR570/CR910
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5801394	Magnet - CR300
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5801395	Magnet - CR570/CR910
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5801396	Magnet - 5801380/5801381/5801382
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SYRINGE/CARTRIDGE RETAINER STANDS



560021U
Syringe Barrel Stand



562359U
High Capacity Syringe
Barrel Stand



560549U
CR300 Cartridge
Retainer Stand



560549-NU
5801383-KIT Cartridge
Retainer Stand



560535-NU
Nylon Retainer Stand
2.5, 6, 8 & 12 oz



560535-TU
Metal Retainer Stand
2.5, 6, 8 & 12 oz



560534U
CR570, CR910 & 101-20R
20 & 32 oz Retainer Stand



560670U
Gravity-Fed 500 ml
560666 Bottle Stand



MANUAL BARREL LOADERS

The 560548U Series of manual barrel loaders will fill a barrel directly from a 6 oz, 12 oz, 300 ml, 20 oz, or 32 oz.

Barrel loaders are connected to an air regulator and set to a pressure suitable for the material not exceeding 65 psi (4.48 bar). A manual switch on the base actuates the air supply and pressurizes the cartridge to fill the syringe barrel.

The barrel fillers' internal air relief valve allows for decompression when the trigger is released. The system can be used for timed filling when connected to a Fisnar automatic controller.

Item Number	Description
560548U-6N	6 oz Nylon Barrel Loader
560548U-12N	12 oz Nylon Barrel Loader
560548U-300	300 ml Metal Barrel Loader
560548U-570	20 oz Metal Barrel Loader
560548U-910	32 oz Metal Barrel Loader



Replacement Parts

Item Number	Description
561105	1/4" NPT Elbow
5801451	Syringe Filling Adapter
560710	Luer Lock Cap
560546	1/4" NPT Polyethylene Female Cartridge Adapter
561129	1/4" NPT x 5/8-11 UNC White Acetal Cartridge Adapter
562317	1/4" NPT x 13/16-14 UNC Black Acetal Cartridge Adapter

Replacement Seals

Item Number	Description
5801388-SEAL	Seal (NBR) for Retainer Cap
CR300-SEAL	Seal (NBR) for Retainer Cap
CR570-SEAL	Seal (NBR) for Retainer Cap
CR910-SEAL	Seal (NBR) for Retainer Cap

50 ML MANUAL BARREL LOADER

The 560548U-DTD50 manual barrel loader will fill a syringe barrel directly from A-style or B-style square back 50 ml cartridges with a 1:1, 2:1, 3:2, 4:1, or 10:1 ratio.

Barrel loaders are connected to an air regulator and set to a pressure suitable for the material not exceeding 65 psi (4.48 bar). A manual switch on the base actuates the air supply and pressurizes the cartridge to fill the syringe barrel.

The barrel fillers' internal air relief valve allows for decompression when the trigger is released. The system can be used for timed filling when connected to a Fisnar automatic controller.

Item Number	Description
560548U-DTD50	50 ml Dual Cartridge Barrel Loader



Spare Parts

Item Number	Description	
EAMAH05-17LL	5.4 mm x 17 Element LL Mix Nozzle (A-Style)	
FMAH250-20LL	0.250" x 20 Element LL Mix Nozzle (A-Style)	
EAMBH05-16LL	5.4 mm x 16 Element LL Mix Nozzle (B-Style 1:1/2:1)	
EAMBHX05-16LL	5.4 mm x 16 Element LL Mix Nozzle (B-Style 4:1/10:1)	
562358	Female Luer Elbow	
560710	Luer Lock Cap	

ATD AUTOTUBE DISPENSE KITS

The autotube system was designed to dispense liquids, pastes, greases, silicones, and similar materials directly from the manufacturer's collapsible metal tubes (max size 1.5" diameter x 7.25" length).

Dispensing is controlled by either a foot valve or timed dispenser for a controlled shot.

The autotube assembly can be handheld, utilized with a pistol grip handle, or mounted on a stand.

FEATURES

- Eliminates waste
- Improves operator safety
- Prevents tube damage
- Clean and easy dispense method
- Reduces risk of contamination



ATD80N shown.

Item Number	Description	Max. Tube Size (O.D. x Length)
ATD80N	Autotube Dispense Kit - 8 oz	1.5" x 7.25" (38.1 x 184 mm)
ATD300N	Autotube Dispense Kit - 1/10th Gallon	1.75" x 7.5" x (44.5 x 191 mm)

DISPENSING CONFIGURATIONS:

Finger Switch Actuated



Item Number	Compatibility
FS-501VDC	ATD80N/ATD300N

Pistol Grip Hand Assembly

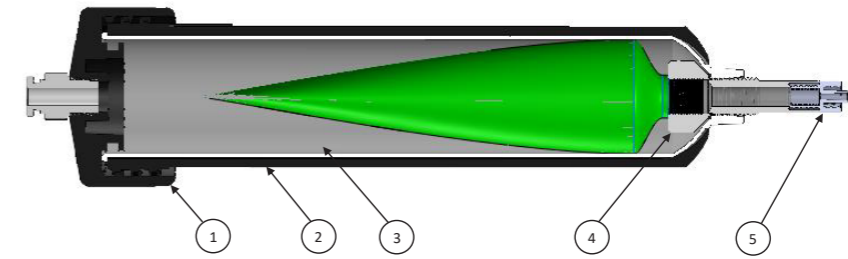


Item Number	Compatibility
560598DC	ATD80N

Stand Mounted Assembly



Item Number	Compatibility
560535-NU	ATD80N
560549-NU	ATD300N



INCLUDED PARTS:

ATD80N

Item Number	Description	Reference ID
560524	Connecting Hose (6 ft)	-
560517A	8 oz Cartridge	3
5801381	8 oz Cartridge Retainer	2
5801388	Retainer Cap	1
A-10001-OT	Luer Lock Tip Adapter	5
880001-A	Adapter M13x1	4
880001-B	Adapter M14x2	4
880001-C	Adapter M12x1.75	4
880001-D	Adapter M18x1.25	4
880001-BLANK	No Thread Adapter	4
QK-NSK	Needle Selection Kit	-



ATD300N

Item Number	Description	Reference ID
560524	Connecting Hose (6 ft)	-
560516A	1/10th Gallon Cartridge	3
5801383	1/10th Gallon Cartridge Retainer	2
5801384	Retainer Cap	1
A-10001-OT	Luer Lock Tip Adapter	5
880001-A	Adapter M13x1	4
880001-B	Adapter M14x2	4
880001-C	Adapter M12x1.75	4
880001-D	Adapter M18x1.25	4
880001-BLANK	No Thread Adapter	4
QK-NSK	Needle Selection Kit	-

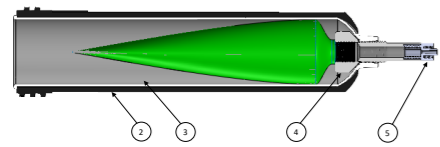


FTD PNEUMATIC TUBE DISPENSERS

The FTD dispensers are engineered to specifically address the waste and discomfort that result from dispensing materials in collapsible tubes. Their comfortable, balanced design protects the tube from damage and the operator from material contact.

FEATURES

- Eliminates waste when dispensing from collapsible tubes
- Avoids material contamination
- Improves operator safety
- Helps prevent the potential for tube damage



Item Number	Description	Max. Tube Size (O.D. x Length)
FTD-80N	Pneumatic Tube Dispenser - 8 oz	1.5" x 7.25" (38.1 x 184 mm)
FTD-300N	Pneumatic Tube Dispenser - 300 ml	1.75" x 7.5" x (38.1 x 191 mm)

INCLUDED PARTS:

FTD-80N			FTD-300N		
Item Number	Description	Reference ID	Item Number	Description	Reference ID
560705-10FT	Air Hose - 10 ft	-	560705-10FT	Air Hose - 10 ft	-
560517A	8 oz Cartridge	3	560516A	1/10th Gallon Cartridge	3
5801381	8 oz Cartridge Retainer	2	5801383	1/10th Gallon Retainer	2
A-10001-OT	Luer Lock Tip Adapter	5	A-10001-OT	Luer Lock Tip Adapter	5
880001-A	Adapter M13x1	4	880001-A	Adapter M13x1	4
880001-B	Adapter M14x2	4	880001-B	Adapter M14x2	4
880001-C	Adapter M12x1.75	4	880001-C	Adapter M12x1.75	4
880001-D	Adapter M18x1.25	4	880001-D	Adapter M18x1.25	4
880001-BLANK	No Thread Adapter	4	880001-BLANK	No Thread Adapter	4
QK-NSK	Needle Selection Kit	-	QK-NSK	Needle Selection Kit	-





1-COMPONENT MANUAL & PNEUMATIC CARTRIDGE DISPENSERS

A range of manual and pneumatic dispensers for use with most standard empty and prefilled cartridges.

- FMG Manual Hand-Held Series: Available in 2.5 oz, 6 oz, 8 oz, and 12 oz sizes for Techcon, Semco, and EFD cartridges
- FMG-T Manual Hand-Held Series: Available in 2.5 oz, 6 oz, 8 oz, and 12 oz sizes for Techcon cartridges
- FLG Pneumatic Lever Actuated Series: Available in 2.5 oz, 6 oz, 8 oz, and 12 oz sizes for Techcon, Semco, and EFD cartridges, 300 ml (1/10th gallon) for standard caulk cartridges
- FPG Pneumatic Cartridge Pistol Grip Series: Available in 2.5 oz, 6 oz, 8 oz, and 12 oz sizes for Techcon, Semco, and EFD cartridges, 300 ml (1/10th gallon) for standard caulk cartridges, and 20 oz and 32 oz for Semco and EFD cartridges
- FCG Pneumatic Cartridge Pistol Grip Series: Available in 6 oz, 8 oz, and 12 oz sizes for Techcon, Semco, and EFD cartridges and 300 ml (1/10th gallon) for standard caulk cartridges
- Manual Caulk Tools: Available for empty Techcon and Semco 300 ml (1/10th gallon) and standard plastic and metal filled caulk cartridges.
- Manual and Pneumatic Sausage Tools: Available for 10 oz (400 ml) and 20 oz (600 ml) sausage/sachet packs



FMG MANUAL CARTRIDGE DISPENSERS

Fisnar's FMG series manual cartridge applicators come ready to dispense right out of the box. Designed for industrial assembly and sealing applications. Compatible with all 2.5, 6, 8, and 12 oz Techcon, Semco, and EFD cartridges.

The force applied to the trigger on the handle controls the steady dispensing of fluid beads and dots. The durable and comfortable metal trigger handle design is built to last.

A conveniently placed hole location allows for a tool balancer to be attached to the applicator for easy retraction at a work station.



Item Number	Description
FMG-25	2.5 oz Manual Cartridge Dispenser
FMG-60	6 oz Manual Cartridge Dispenser
FMG-80	8 oz Manual Cartridge Dispenser
FMG-120	12 oz Manual Cartridge Dispenser

FEATURES

- Simple setup and easy to use
- Retractable retaining rod for easy removal of the cartridge after use
- Heavy duty screw locking cartridge retaining sleeve
- Integrated tool balancer fixing location
- Lightweight and durable design

BENEFITS

- Compatible with all standard 2.5, 6, 8, and 12 oz Techcon, Semco, and EFD cartridges
- Low level monitoring slots allow the operator to see when the cartridge is running low on fluid
- Effective solution when working in remote field applications when compressed air supply is not available.

Spare Parts

Item Number	Description
5801379	2.5 oz Retainer Body
5801380	6 oz Retainer Body
5801381	8 oz Retainer Body
5801382	12 oz Retainer Body
5801388-SEAL	2.5/6/8/12oz Retainer Cap Seal



FMG-T MANUAL CARTRIDGE DISPENSERS

Fisnar's FMG-T series manual cartridge applicators come ready to dispense 2.5, 6, 8, or 12 oz Techcon cartridges right out of the box. Designed for industrial assembly and sealing applications.

The force applied to the trigger on the handle controls the steady dispensing of fluid beads and dots. The durable and comfortable metal trigger handle design is built to last.

A conveniently placed hole location allows for a tool balancer to be attached to the applicator for easy retraction at a work station.



Item Number	Description
FMG-25T	2.5 oz Manual Cartridge Dispenser
FMG-60T	6 oz Manual Cartridge Dispenser
FMG-80T	8 oz Manual Cartridge Dispenser
FMG-120T	12 oz Manual Cartridge Dispenser

FEATURES

- Simple setup and easy to use
- Retractable retaining rod for easy removal of the cartridge after use
- Bayonet locking cartridge retaining sleeve
- Integrated tool balancer fixing location
- Lightweight and durable design

BENEFITS

- Compatible with all standard 2.5, 6, 8, and 12 oz Techcon cartridges
- Low level monitoring slots allow the operator to see when the cartridge is running low on fluid
- Effective solution when working in remote field applications when compressed air supply is not available.

Spare Parts

Item Number	Description
918-030-000	2.5 oz Retainer Body
918-031-000	6 oz Retainer Body
918-034-000	8 oz Retainer Body
918-032-000	12 oz Retainer Body
5601378	2.5, 6, 8, and 12oz Retainer Cap Seal



MANUAL CAULK TUBE DISPENSERS

A range of tough, durable, and lightweight manual applicators compatible with all standard 10 oz and 1/10th gallon (300/310 ml) caulking style cartridge systems, designed for use in industrial assembly and sealing applications.

The force applied to the trigger on the handle controls the steady dispensing of fluid beads and dots. The durable and comfortable metal trigger handle design is built to last.






A conveniently placed hole location allows for a tool balancer to be attached to the applicator for easy retraction at a work station.



FEATURES

- Simple setup and easy to use
- 26:1 Thrust ratio
- Suitable for use with high viscosity materials
- Thumb activated pressure release
- Integrated tool balancer fixing location
- Plunger has curved end for easy storage
- Lightweight and durable design
- Effective solution when working in remote field applications when compressed air supply is not available.

Item Number	Description
375XSP	1/10th Gallon (300/310 ml) Manual Caulking Dispenser
EA41004-2T	1/10th Gallon (300/310 ml) Manual Caulking Dispenser
310M MANUAL APPLICATOR	1/10th Gallon (300/310 ml) Manual Caulking Dispenser
B26	1/10th Gallon (300/310 ml) Manual Caulking Dispenser

Item Number	Description	
EANC425180-HD	2.5 mm I.D. x 4.25" HDPE Cartridge Nozzle (5/8" - 11 UNC Female) (Best fit with plastic cartridges)	
A4006P	3.0 mm I.D. x 3.2" LDPE Cartridge Nozzle (M15 x 1.5 Female) (Best fit with metal cartridges)	
A3800P	10 mm I.D. x 2.25" LDPE Cartridge V-Notch Nozzle (M15 x 1.5 Female) (Best fit with metal cartridges)	
935-1	3.2 mm I.D. x 7" Angled Cartridge Nozzle (Non-Threaded) (Best fit with plastic cartridges)	
1018-G01	Ribbon Nozzle - 1/8" x 2" to 4" (Non-Threaded) (Best fit with plastic cartridges)	

CAULK TUBE ACCESSORIES



Item Number	Description
A-POCKETSILK-PLA	Bead Smoothing Kit (3/4", 7/8", 1" & 1 1/2")
PA1-B BLUE	Hand Applicator Spreading Tool - Soft
PA1-G GOLD	Hand Applicator Spreading Tool - Firm
235077	Sealant Removal Tool

SMOOTHING TOOLS

Plastic sealant tools are ideal for spreading, smoothing and removing sealants or adhesives. Approved for use in the aerospace industry, these tools are designed to prevent damage to delicate substrates.



Item Number	Description
EA1275-KP	Spatula Kit (Blue)
EA1275-4	Smoothing Tool (Red)

CAULK TUBE SEALING CAP

Cover adhesive and sealant cartridge nozzles to keep contents from hardening. When you push this cap onto a cartridge nozzle, the cap's pin goes inside the nozzle to seal out air and contaminants.



Item Number	Description
EANSC-300	Caulk Tube Sealing Cap

FCG PNEUMATIC CARTRIDGE DISPENSERS

Tough, durable, and lightweight, these 6, 8, and 12 oz cartridge dispensers are designed for dispensing adhesives and sealants commonly used in industrial assembly, aerospace, and automotive applications.

Compatible for use with Techcon, Semco, and EFD style cartridge systems. Designed to produce consistent beads and dots in a controlled manner. Their ergonomically balanced design ensures a comfortable fit in the operator's hands allowing them to be used with ease.



Item Number	Description
FCG-60	6 oz Pneumatic Cartridge Dispenser
FCG-80	8 oz Pneumatic Cartridge Dispenser
FCG-120	12 oz Pneumatic Cartridge Dispenser

FEATURES

- Superior sealing ability on the cartridge
- Durable engineered nylon construction
- Quick connect fitting supplied pre-fitted
- Additional fittings included for custom hose configuration
- Rubberized trigger assembly
- 0 - 100 psi operation

BENEFITS

- Quick exhaust system to reduce drooling
- Screw cap design ensures product safety
- Lightweight ergonomically balanced tool helps reduce operator fatigue.
- Optional regulator available for adjustable flow control
- Compatible with Techcon, Semco, and EFD cartridges

Optional Accessories

Item Number	Description	Image
560779	Pressure Regulator 0 - 100 psi	
5801386	Hose Assembly 10 ft (3 m)	
5601950	Quick Connect Coupler 1/4" Male	
5601951	Quick Connect Coupler 1/4" Female	

Spare Parts

Item Number	Description
5801380	6 oz Retainer Body
5801381	8 oz Retainer Body
5801382	12 oz Retainer Body
580108	1/4" Quick Connect Plug
FCG-6812-SEAL	Retainer Cap Seal (NBR)
560737	1/4" Hose Barb x 1/4" NPT Male
560716	1/4" NPT Male Nipple
560738	Hose Clamp

FCG-300 PNEUMATIC CAULK TUBE DISPENSER

A tough, durable, and lightweight caulking tool designed for industrial assembly and sealing applications. Compatible with all standard plastic 1/10th gallon (300/310 ml) caulking style cartridge systems.

The FCG-300 produces consistent beads and dots in a controlled manner. Its ergonomically balanced design ensures a comfortable fit in the operator's hands allowing it to be used with ease.



Item Number	Description
FCG-300	1/10th Gallon (300/310 ml) Pneumatic Caulking Dispenser

FEATURES

- Superior sealing ability on the cartridge
- Durable engineered nylon construction
- Quick connect fitting supplied pre-fitted
- Additional fittings included for custom hose configuration
- Rubberized trigger assembly
- 0 - 100 psi operation

BENEFITS

- Quick exhaust system to reduce drooling
- Screw cap design ensures product safety
- Lightweight ergonomically balanced tool helps reduce operator fatigue.
- Optional regulator available for adjustable flow control

Optional Accessories

Item Number	Description	Image
560779	Pressure Regulator 0 - 100 psi	
5801386	Hose Assembly 10 ft (3 m)	
5601950	Quick Connect Coupler 1/4" Male	
5601951	Quick Connect Coupler 1/4" Female	

Spare Parts

Item Number	Description
5801383	1/10th Gallon Retainer Body
580108	1/4" Quick Connect Plug
FCG-300-SEAL	Retainer Cap Seal (NBR)
560737	1/4" Hose Barb x 1/4" NPT Male
560716	1/4" NPT Male Nipple
560738	Hose Clamp

FLG PNEUMATIC LEVER ACTUATED CARTRIDGE DISPENSERS

Tough, durable, and lightweight, these 2.5, 6, 8, 12 oz, and 300 ml cartridge dispensers are designed for dispensing adhesives and sealants commonly used in industrial assembly, aerospace, and automotive applications.



Compatible for use with Techcon, Semco, and EFD style cartridge systems. Designed to produce consistent beads and dots in a controlled manner. Their ergonomically balanced design ensures a comfortable fit in the operator's hands allowing them to be used with ease.

Item Number	Description
FLG-25	2.5 oz Lever Actuated Cartridge Dispenser
FLG-60	6 oz Lever Actuated Cartridge Dispenser
FLG-80	8 oz Lever Actuated Cartridge Dispenser
FLG-120	12 oz Lever Actuated Cartridge Dispenser
FLG-300	300 ml Lever Actuated Cartridge Dispenser

FEATURES

- Durable and ergonomic handle assembly made of nylon with 30% fiberglass and aluminum alloys
- Lightweight and durable design
- Integrated tool balancer mounting ring
- Low level monitoring slots allow the operator to see when the cartridge is running low on fluid
- 0 - 85 psi operation

BENEFITS

- Compatible with all standard 2.5, 6, 8, and 12 oz Techcon, Semco, and EFD cartridges
- Compatible with 1/10 gallon (300 ml) empty Techcon and Semco cartridges, and standard plastic 300/310 ml caulking style cartridge systems
- Small foot print allows for dispensing into hard to access areas

Optional Accessories

Item Number	Description	
560779	Pressure Regulator 0 - 100 psi	
5801386	Hose Assembly 10 ft (3 m)	
5601950	Quick Connect Coupler 1/4" Male	
5601951	Quick Connect Coupler 1/4" Female	

Spare Parts

Item Number	Description
5801379	2.5 oz Retainer Body
5801380	6 oz Retainer Body
5801381	8 oz Retainer Body
5801382	12 oz Retainer Body
5801383	1/10 th Gallon Retainer Body
1283T24	Air Hose Coupling
5801384-SEAL	1/10th Gallon Retainer Cap Seal
5601388-SEAL	2.5/6/8/12oz Retainer Cap Seal

FPG PNEUMATIC CARTRIDGE DISPENSERS

Fisnar's FPG series pneumatic applicators come ready to dispense 2.5, 6, 8, or 12 oz cartridges right out of the box. Designed for industrial assembly and sealing applications. Compatible with all 2.5, 6, 8, and 12 oz Techcon, Semco, and EFD cartridges.



These tools are fitted with a built-in air regulator for precise control, helping to produce consistent and accurate beads and dots while sitting comfortably in the operator's hands. The durable nylon molded design is built to last.

Item Number	Description
FPG-25	2.5 oz Pneumatic Cartridge Dispenser
FPG-60	6 oz Pneumatic Cartridge Dispenser
FPG-80	8 oz Pneumatic Cartridge Dispenser
FPG-120	12 oz Pneumatic Cartridge Dispenser

FEATURES

- Durable and ergonomic handle assembly made of nylon with 30% fiberglass and aluminum alloys
- Lightweight and durable design
- Equipped with an integrated pressure regulator
- 0 - 85 psi operation

BENEFITS

- Compatible with all standard 2.5, 6, 8, and 12 oz Techcon, Semco, and EFD cartridges
- Low level monitoring slots allow the operator to see when the cartridge is running low on fluid
- Adjustable pressure regulator ensures precise control of fluid flow rate

Optional Accessories

Item Number	Description	
5801386	Hose Assembly 10 ft (3 m)	
5601950	Quick Connect Coupler 1/4" Male	
5601951	Quick Connect Coupler 1/4" Female	

Spare Parts

Item Number	Description
5801379	2.5 oz Retainer Body
5801380	6 oz Retainer Body
5801381	8 oz Retainer Body
5801382	12 oz Retainer Body
1283T24	Air Hose Coupling
5801388-SEAL	2.5/6/8/12oz Retainer Cap Seal

FPG-300 1/10 GALLON PNEUMATIC CARTRIDGE DISPENSER

Fisnar's FPG-300 pneumatic applicator comes ready to dispense 300 ml or 1/10th gallon cartridges right out of the box. Designed for industrial assembly and sealing applications. Compatible with all standard plastic 1/10th gallon (300/310 ml) caulking style cartridge systems.

This tool has a built-in air regulator for precise control, helping to produce consistent and accurate beads and dots while sitting comfortably in the operator's hands. The tough metal retainer and cap combination is built to last.



Item Number	Description
FPG-300	1/10th Gallon (300/310 ml) Pneumatic Caulking Dispenser




FEATURES

- Durable and ergonomic handle assembly made of nylon with 30% fiberglass and aluminum alloys
- Lightweight and durable design
- Equipped with an integrated pressure regulator
- 0 - 85 psi operation

BENEFITS

- Compatible with standard plastic 1/10th gallon (300/310 ml) caulking-style cartridge systems
- Adjustable pressure regulator ensures precise control of fluid flow rate

Optional Accessories

Item Number	Description	
5801386	Hose Assembly 10 ft (3 m)	
5601950	Quick Connect Coupler 1/4" Male	
5601951	Quick Connect Coupler 1/4" Female	

Spare Parts

Item Number	Description
560746A	Straight 1/4" O.D. Push Connector x 1/4" NPT Male
1283T24	Air Hose Coupling
CR300-SEAL	Retainer Cap Seal (NBR)



FPG-570 20 OZ PNEUMATIC CARTRIDGE DISPENSER

Fisnar's FPG-570 pneumatic applicator comes ready to dispense 20 oz cartridges right out of the box. Designed for industrial assembly and sealing applications. Compatible with all 20 oz Techcon, Semco, and EFD cartridges.

This tool has a built-in air regulator for precise control, helping to produce consistent and accurate beads and dots while sitting comfortably in the operator's hands. The tough metal retainer and cap combination is built to last.



Item Number	Description
FPG-570	20 oz Pneumatic Cartridge Dispenser




FEATURES

- Durable and ergonomic handle assembly made of nylon with 30% fiberglass and aluminum alloys
- Heavy duty metal screw locking retaining sleeve provides lasting airtight seal
- Equipped with an integrated pressure regulator
- 0 - 85 psi operation

BENEFITS

- Compatible with all standard 20 oz Techcon, Semco, and EFD cartridges
- Low level monitoring slots allow the operator to see when the cartridge is running low on fluid
- Adjustable pressure regulator ensures precise control of fluid flow rate

Optional Accessories

Item Number	Description	
5801386	Hose Assembly 10 ft (3 m)	
5601950	Quick Connect Coupler 1/4" Male	
5601951	Quick Connect Coupler 1/4" Female	

Spare Parts

Item Number	Description
560746A	Straight 1/4" O.D. Push Connector x 1/4" NPT Male
1283T24	Air Hose Coupling
CR570-SEAL	Retainer Cap Seal (NBR)

FPG-910 32 OZ PNEUMATIC CARTRIDGE DISPENSER

Fisnar's FPG-910 pneumatic applicator comes ready to dispense 32 oz cartridges right out of the box. Designed for industrial assembly and sealing applications. Compatible with all 32 oz Semco, and EFD cartridges.

This tool has a built-in air regulator for precise control, helping to produce consistent and accurate beads and dots while sitting comfortably in the operator's hands. The tough metal retainer and cap combination is built to last.



Item Number	Description
FPG-910	32 oz Pneumatic Cartridge Dispenser




FEATURES

- Durable and ergonomic handle assembly made of nylon with 30% fiberglass and aluminum alloys
- Heavy duty metal screw locking retaining sleeve provides lasting airtight seal
- Equipped with an integrated pressure regulator
- 0 - 85 psi operation

BENEFITS

- Compatible with all standard 32 oz Semco and EFD cartridges
- Low level monitoring slots allow the operator to see when the cartridge is running low on fluid
- Adjustable pressure regulator ensures precise control of fluid flow rate

Optional Accessories

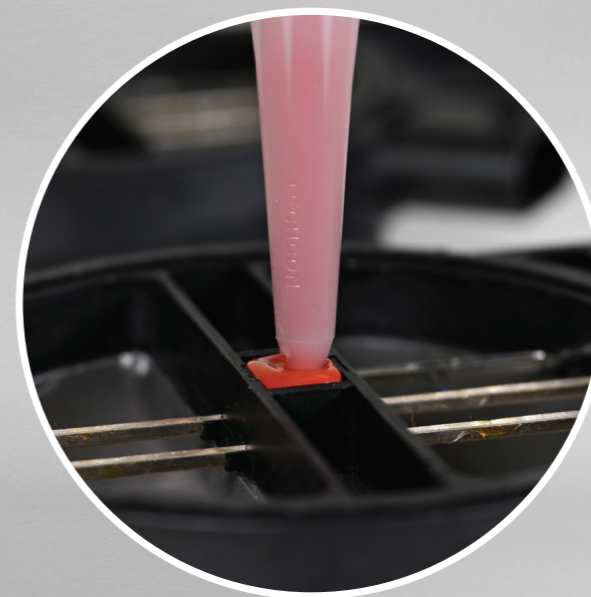
Item Number	Description	
5801386	Hose Assembly 10 ft (3 m)	
5601950	Quick Connect Coupler 1/4" Male	
5601951	Quick Connect Coupler 1/4" Female	

Spare Parts

Item Number	Description
560746A	Straight 1/4" O.D. Push Connector x 1/4" NPT Male
1283T24	Air Hose Coupling
CR910-SEAL	Retainer Cap Seal (NBR)

APPLICATOR & CARTRIDGE COMPATIBILITY CHART

Applicators	Cartridges																	
	Techcon						Semco						EFD					
	2.5 oz	6 oz	8 oz	12 oz	300 ml	20 oz	2.5 oz	6 oz	8 oz	12 oz	300 ml	20 oz	32 oz	2.5 oz	6 oz	12 oz	20 oz	32 oz
FMG-25	•						•							•				
FMG-25T	•																	
FMG-60		•						•							•			
FMG-60T		•																
FMG-80			•						•									
FMG-80T			•															
FMG-120				•						•						•		
FMG-120T				•														
FLG-25	•						•							•				
FLG-60		•						•							•			
FLG-80			•						•									
FLG-120				•						•						•		
FLG-300					•						•							
FPG-25	•						•							•				
FPG-60		•						•							•			
FPG-80			•						•									
FPG-120				•						•						•		
FPG-300					•						•							
FPG-570						•						•					•	
FPG-910												•						•
FCG-60		•						•							•			
FCG-80			•						•									
FCG-120				•						•						•		
FCG-300					•						•							



MANUAL SACHET (SAUSAGE) DISPENSERS

These manual sachet applicators come ready to dispense 400 ml (13.5 oz) or 600 ml (20 oz) sachets/sausage packs. Designed for industrial assembly and sealing applications.

The force applied to the trigger on the handle controls the steady dispensing of fluid beads and dots. The durable and comfortable metal trigger handle design is built to last.



FEATURES

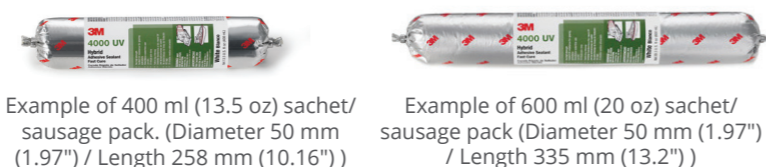
- Simple setup and easy to use
- Retractable retaining rod for easy removal of sachet/sausage pack after use.
- Heavy duty screw locking retaining sleeve
- Integrated tool balancer fixing location
- Lightweight and durable design

Item Number	Description
EAD400/600MC-S	400/600 ml Manual Sachet Dispenser (Supplied with 6pcs of 2N1006)
EAD400/600MN-S	400/600 ml Manual Sachet Dispenser (Supplied with 2pcs of PC-620 and 1pc of PC-PUNCTURE-LG)



PNEUMATIC SACHET (SAUSAGE) DISPENSERS

These pneumatic sachet applicators come ready to dispense 400 ml (13.5 oz) or 600 ml (20 oz) sachets/sausage packs. Designed for industrial assembly and sealing applications.



Example of 400 ml (13.5 oz) sachet/sausage pack. (Diameter 50 mm (1.97") / Length 258 mm (10.16"))

Example of 600 ml (20 oz) sachet/sausage pack (Diameter 50 mm (1.97") / Length 335 mm (13.2"))

These tools have a built-in air regulator for precise control, helping to produce consistent and accurate beads and dots while sitting comfortably in the operator's hands. Featuring a silencer, floating plunger with secure cord, drawn aluminum retainer and quick release end cap.

Item Number	Description
EAD400/600PC3-S	400/600 ml Pneumatic Sachet Dispenser (Supplied with 6pcs of 2N1007)
EAD400/600PN-S	400/600 ml Pneumatic Sachet Dispenser (Supplied with 3pcs of PC-58)

Optional Accessories

Item Number	Description	
1283T24	Quick Connect Plug 1/8" Female	
5801386	Hose Assembly 10 ft (3 m)	
5601950	Quick Connect Coupler 1/4" Male	
5601951	Quick Connect Coupler 1/4" Female	

FEATURES

- Durable and ergonomically designed nylon handle assembly for comfort
- Floating plunger reduces material waste
- Integrated pressure regulator for precise control and smooth material flow
- Built in silencer reduces noise level
- Lightweight and durable design
- 0 - 100 psi operation

SACHET (SAUSAGE) NOZZLES



Item Number	Description	Color	Material
2N1006	Cone Nozzle - w/out hole	Yellow	HDPE
PC-58	Cone Nozzle - w/out hole	Black	Polypropylene
PC-620	Cone Nozzle - w/out hole	Gray	Polypropylene
PC-PUNCTURE-LG	Self Puncturing Cone Nozzle - w/out hole	Blue	Polyethylene
2N1007	Cone Nozzle - White 3 mm I.D.	Natural	HDPE
NOZ005	V-Shaped Fillet Nozzle	White	HDPE
1018-G01	Ribbon Nozzle - 1/8" x 2" to 4"	Fluorescent Yellow	HDPE

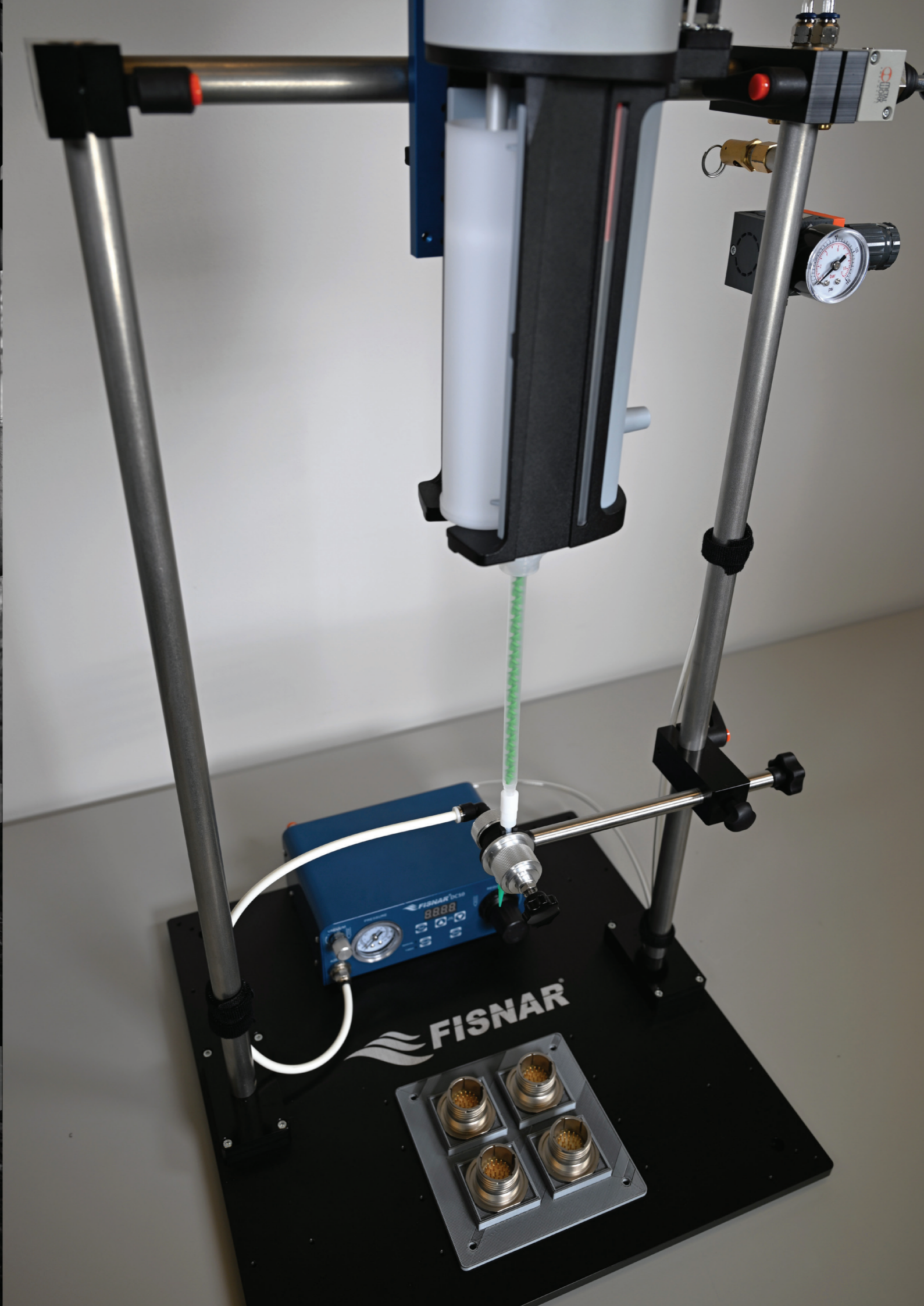
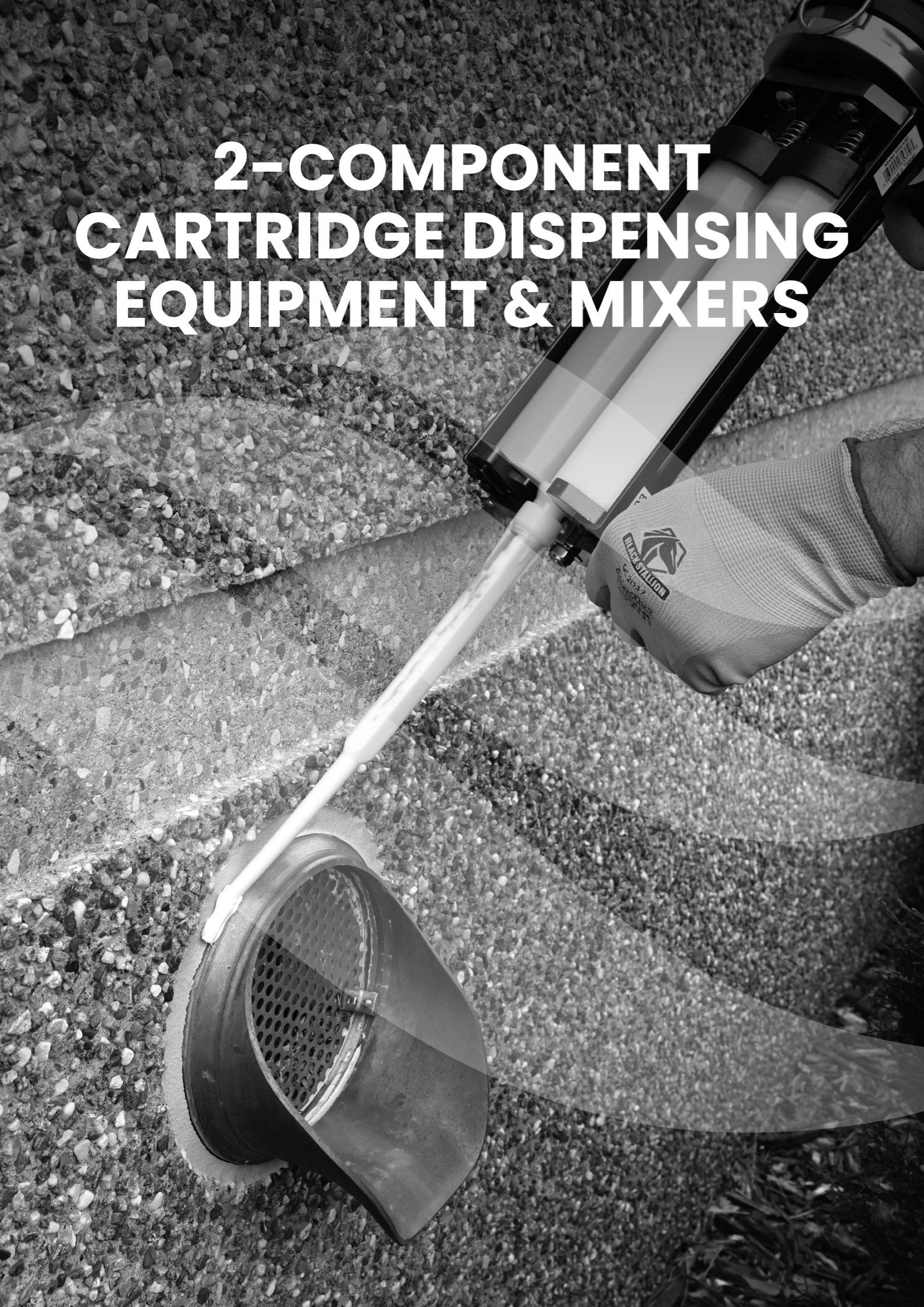


Item Number	Description	Item Number	Description
OC00200-4137	Sausage Pack Adapter M15 x 1.5 Male	OC00200-4137	Sausage Pack Adapter M15 x 1.5 Male
EANC425180-HD	2.5 mm I.D. x 4.25" HDPE Nozzle (5/8" - 11 UNC Female)	561129	Cartridge Adapter 1/4" NPT x 5/8"-11 UNC
A4006P	3 mm I.D. x 3.25" LDPE Nozzle (M15 x 1.5 Female)	EA1050	1/2"x 1/16" I.D. x 4" HDPE Spreader Nozzle
A3800P	10 mm I.D. x 2.25" LDPE V Nozzle (M15 x 1.5 Female)	EA1075	3/4"x 1/8" I.D. x 4.5" HDPE Spreader Nozzle
		EA1100	1"x 1/8" I.D x 4.5" HDPE Spreader Nozzle
		EA1175	1 3/4"x 1/8" I.D. x 4" HDPE Spreader Nozzle










Note: EANC425180-HD, A4006P, and A3800P nozzle can be fitted directly to OC0200-4137.

Note: 1/4" NPT male nozzles require 561129 adapter before fitting to OC0200-4137.



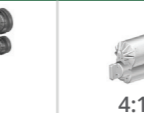




2-COMPONENT CARTRIDGE DISPENSING EQUIPMENT & MIXERS



MANUAL 50/75 ML 2-COMPONENT CARTRIDGE DISPENSERS

Item Number	50 ml / 75 ml A-Style (Square Back)				
					
 EAD50MS-11/21	•	•			
 EAD50MS-41			•		
 EAD50MS-101				•	
 EAD50MS-11/21 + EAPLA75-11					•

Item Number	50 ml B-Style (Square Back)				
					
 EAD50MS-11/21	•	•	•		
 EAD50MS-11/21 + EAPLB50-41				•	
 EAD50MS-11/21 + EAPLB50-101					•

Item Number	50 ml BS-Style (Round Back)			
				
 EAD50RBMC-MR	•	•	•	•
 EAD50RBMS-11/21	•	•		
 EAD50RBMS-101				•



EAD50MS SERIES MANUAL CARTRIDGE DISPENSER



EAD50RBMS SERIES MANUAL CARTRIDGE DISPENSER



EADR50MC-MR MANUAL CARTRIDGE DISPENSER



EAD50MS Series Spare Parts








Item Number	Description
EAPLA50-11/21	1:1/2:1 Ratio Plunger - 50 ml
EAPLA50-41	4:1 Ratio Plunger - 50 ml
EAPLA50-101	10:1 Ratio Plunger - 50 ml
EAPLA75-11	1:1 Ratio Plunger - 75 ml
EAPLB50-101	10:1 Ratio B-Plunger - 50 ml












EAPLH50-11 1:1 MANUAL HAND PLUNGER



PNEUMATIC 50ML 2-COMPONENT CARTRIDGE DISPENSERS

Item Number	50 ml A-Style (Square Back)			
	 1:1 (50 ml)	 2:1 (50 ml)	 4:1 (50 ml)	 10:1 (50 ml)
 EAD50PK-MR	•	•	•	•
 EAD50PC-11	•			
 EAD50PC2-11/21	•	•		

Item Number	50 ml B-Style (Square Back)				
	 1:1 (50 ml)	 2:1 (50 ml)	 3:2 (50 ml)	 4:1 (50 ml)	 10:1 (50 ml)
 EAD50PK-MR	•	•	•		
 EAD50PK-41/101				•	•
 EAD50PC-11	•				
 EAD50PC2-11/21	•	•			

Item Number	50 ml BS-Style (Round Back)		
	 1:1 (50 ml)	 2:1 (50 ml)	 10:1 (50 ml)
 EAD50RBPC2-11/21	•	•	
 EAD50RBPC2-101			•
 EAD50RBPK-101			•



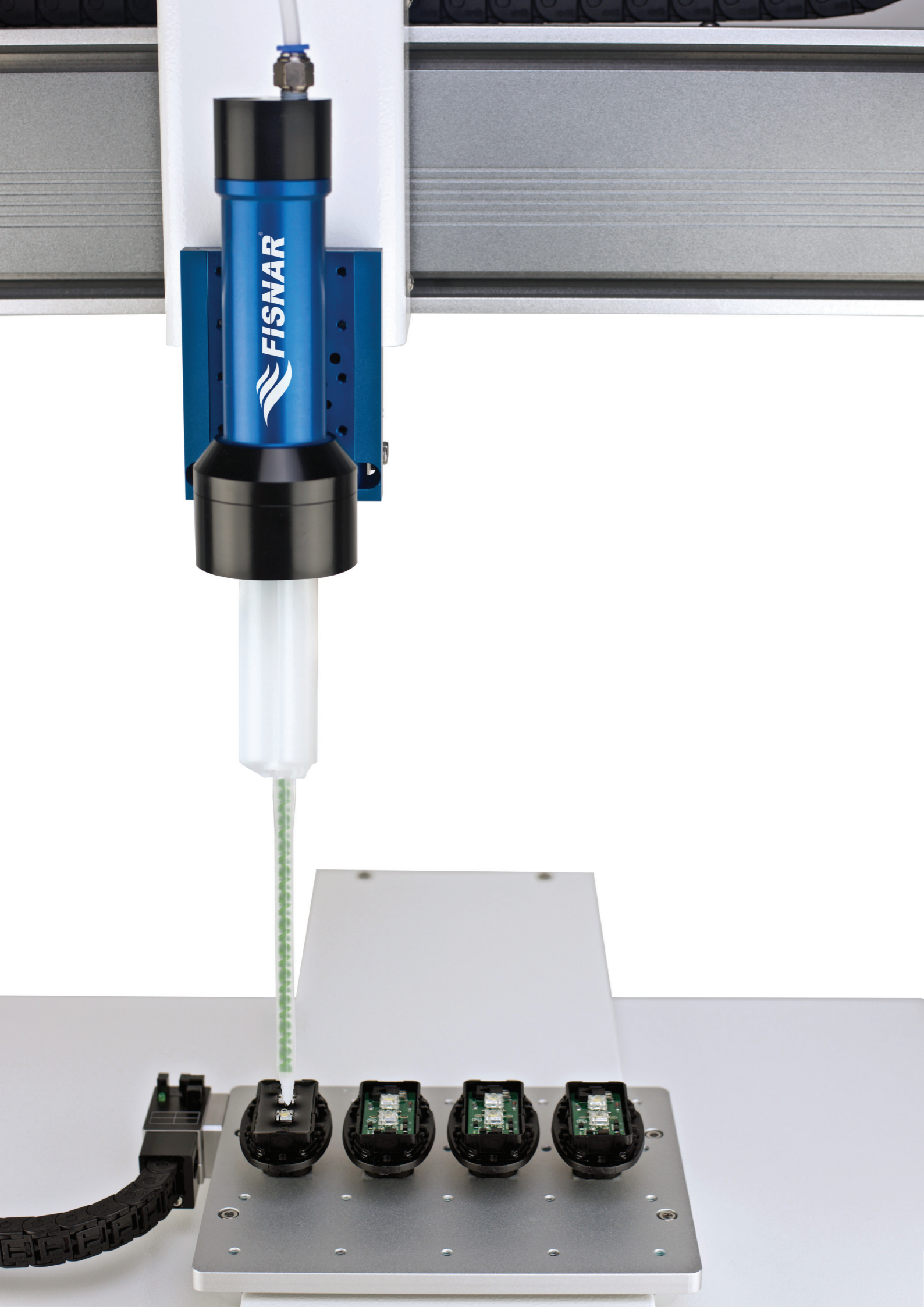
EAD50PK SERIES MANUAL CARTRIDGE DISPENSER



EAD50PC SERIES PNEUMATIC CARTRIDGE DISPENSER



EAD50RBPC2 SERIES PNEUMATIC CARTRIDGE DISPENSER



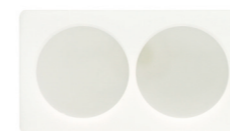
DTD50 50 ML DISPENSER

The DTD50 is a pneumatically controlled dispense tool for precisely dispensing 2-component materials from 50 ml dual cartridges.

With its simple design and operation, users can create accurate, repeatable fluid deposits when connected to a dispense controller.



DC50 MAX controller, cartridge, and mix nozzle sold separately.



DTD50 for use with square back cartridges



DTD50-RB for use with round back cartridges

Spare Parts (sold separately)

Item Number	Description	Item Number	Description
DTD50	50 ml Dispenser Square Back	DTD50-RKP	DTD50 Repair Kit
DTD50-RB	50 ml Dispenser Round Back (S-Flange)	DTD50RB-RKP	DTD50-RB Repair Kit

FEATURES

- Lightweight and durable design
- Use as a handheld device or from a stand or robot for hands-free dispensing
- Suitable for all ratio sizes including: 1:1, 2:1, 3:2, 4:1, and 10:1

SPECIFICATIONS

Air Input	1 - 100 psi (6.9 bar)
Dimensions	139.7 x 58.4 mm (5.5 x 2.3")
Weight	280 g (0.6 lb)
Material	Aluminum and Acetal

DISPENSING CONFIGURATIONS:

Finger Switch Actuated (FS-501VDC)



Pistol Grip Hand Assembly (560565DC)



Stand Mounted Assembly (562318U)



Robot Mounted Assembly (5601800U)



All items shown sold separately.

DSX-50 DUAL CARTRIDGE DISPENSE SYSTEM

The DSX-50 / DSX-50RB dual cartridge dispense systems are excellent, cost-effective solutions for low-volume mixing and dispensing of 2-component materials supplied in 50 ml dual cartridges.

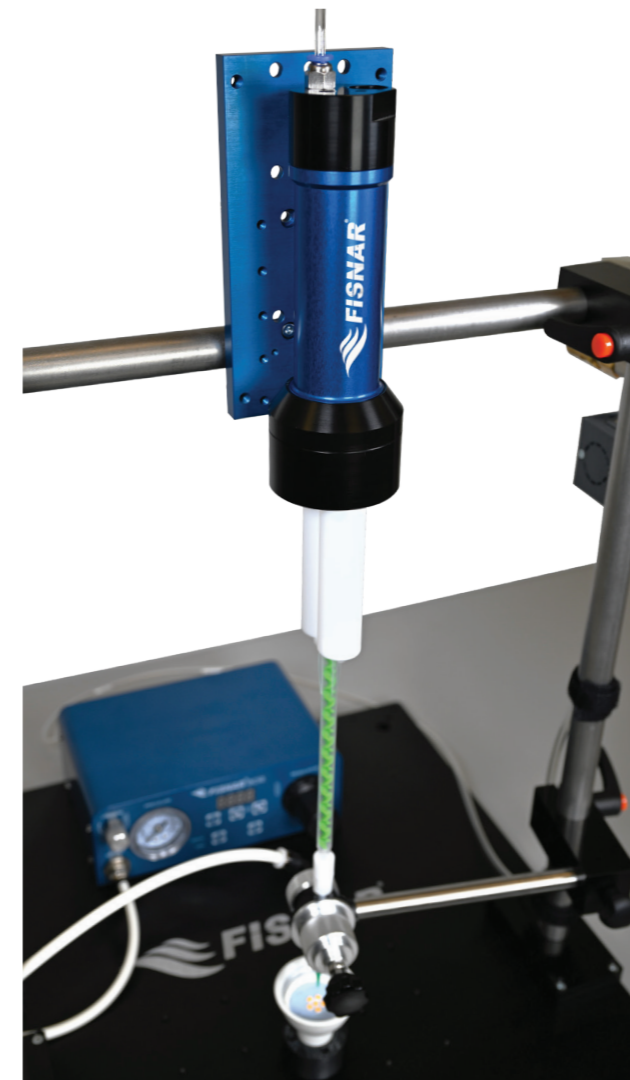
These bench-mounted systems are simple to set up and program for accurate 2-component dispensing of epoxies, silicones, urethanes and acrylics in potting, encapsulation, and bonding applications.

The systems utilize a DTD50 or DTD50-RB 50ml pneumatic cartridge dispenser, controlled by a pressure regulator to allow for consistent pressure control and metering.

A pinch tube valve (710PT-U) with a position control mounting assembly is provided to ensure a clean drip free cut-off to maintain repeatable results when dispensing low viscosity materials.



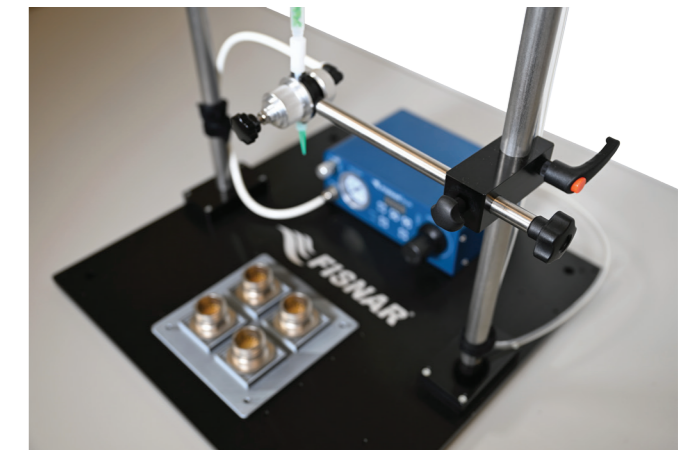
DSX-50 shown with included DC50 controller and 710PT-U valve.



DSX-50 shown with included DC50 controller and 710PT-U valve.



Dispense/Retract Lever Valve Assembly.



710PT-U Mounting Bar Assembly.

Item Number	Description
DSX-50	50ml (Square Back) Dual Cartridge Dispense System
DSX-50RB	50ml (Round Back) Dual Cartridge Dispense System

FEATURES

- Drip-free and accurate dispense results
- Simple set up and operation
- Adjustable dispense height and angle
- DSX-50 compatible with 1:1, 2:1, 3:2, 4:1 & 10:1 ratio A-Style and B-Style cartridges
- DSX-50RB compatible with 1:1, 2:1, 4:1 & 10:1 ratio BS-Style cartridges
- Adjustable dispense volumes
- 3-way pneumatic lever control valve
- DC50 dispenser and 710PT-U valve included with DSX-50 and DSX-50RB
- Heavy duty industrial design

BENEFITS

- Anchoring holes located in the base plate to secure onto the workbench for maximum stability (hardware included)
- Suitable for low to high viscosity fluids
- Dispensing from dual cartridges can be done hands-free thus improving process control
- Additional mounting points for easy attachment of a fixture for positional dispense accuracy
- Modular design allows for dispense equipment to be easily transferred onto a Fisnar robot
- Adjustable mounting plate to optimize the dispense angle of the DTD50 or DTD50-RB when not using the 710PT-U pinch tube valve

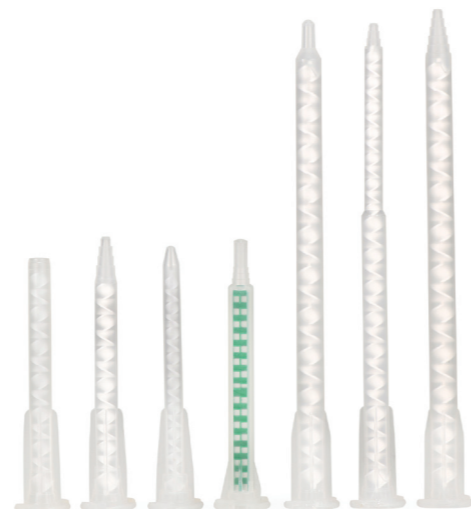
SPECIFICATIONS

Item Number	DSX-50	DSX-50RB
Air Input	70-100 psi	
Air Output	1 - 100 psi	
Air Input Connection	1/4" O.D.	
Cycle	Manual or Timed	
Input AC to Power Supply	100 - 240 VAC, 50/60 Hz	
Output DC from Power Supply	24V DC - 1 Amp	
Timer	0.008 - 99.99s	
Noise Level	83 dBa	
Standards	RoHS Compliant	

MIXPAC™ A-SERIES BAYONET MIXERS

MIXPAC A-series mixers feature a bayonet design for quick and easy installation onto compatible A-style cartridge systems. Available in various styles and tip designs, they provide an efficient method of mixing 2-component adhesives and fluids for many different assembly and coating applications.

They come in helical and Quadro formats selected based on the user's material viscosity or A/B resin and hardener viscosity variance. They can accommodate many different mix ratio materials and are used for dispensing a variety of epoxies, urethanes, acrylics, and other materials.



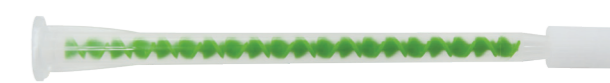
Item Number	Description (All Ratio Helical)	I.D. (inch/mm)	O.D. (inch/mm)	Length (inch/mm)	Tip Style
EAMAH03-07T	Mix Nozzle (A) 3.0 x 7 elements	0.12/3.0	0.20/5.0	1.3/33.0	Tapered
EAMAH03-13T	Mix Nozzle (A) 3.0 x 13 elements	0.12/3.0	0.20/5.0	2.0/51.0	Tapered
EAMAH03-17T	Mix Nozzle (A) 3.0 x 17 elements	0.12/3.0	0.20/5.0	2.5/62.0	Tapered
EAMAH04-13T	Mix Nozzle (A) 4.0 x 13 elements	0.16/4.0	0.24/6.0	2.6/66.0	Tapered
EAMAH04-17T	Mix Nozzle (A) 4.0 x 17 elements	0.16/4.0	0.24/6.0	3.2/82.0	Tapered
EAMAH05-07S	Mix Nozzle (A) 5.4 x 7 elements	0.21/5.4	0.31/8.0	2.2/56.0	Stepped
EAMAH05-13S	Mix Nozzle (A) 5.4 x 13 elements	0.21/5.4	0.31/8.0	3.3/85.0	Stepped
EAMAH05-13D	Mix Nozzle (A) 5.4 x 13 elements	0.21/5.4	0.31/8.0	3.1/79.0	Blunt
EAMAH05-17S	Mix Nozzle (A) 5.4 x 17 elements	0.21/5.4	0.31/8.0	4.1/104.0	Stepped
EAMAH05-21S	Mix Nozzle (A) 5.4 x 21 elements	0.21/5.4	0.31/8.0	4.9/124.0	Stepped
EAMAH0517-0413S	Mix Nozzle (A) 5.4/4.0 x 17/13 elements	0.21-0.16/ 5.4-4.0	0.31-0.24/ 8.0-6.0	5.9/149.0	Stepped
EAMAH06-12S	Mix Nozzle (A) 6.3 x 12 elements	0.25/6.3	0.35/9.0	3.8/97.0	Stepped
EAMAH06-17S	Mix Nozzle (A) 6.3 x 17 elements	0.25/6.3	0.35/9.0	5.0/128.5	Stepped
EAMAH06-21S	Mix Nozzle (A) 6.3 x 21 elements	0.25/6.3	0.35/9.0	6.0/153.0	Stepped
EAMAH06-21LS	Mix Nozzle (A) 6.3 x 21 elements	0.25/6.3	0.35/9.0	6.0/152.0	Luer Slip



Item Number	Description (All Ratio Quadro)	I.D. (inch/mm)	O.D. (inch/mm)	Length (inch/mm)	Tip Style
EAMAQ05-16LS	Mix Nozzle (A) 5.3 x 16 elements	0.21/5.3	0.35/9.0	3.3/83.0	Luer Slip
EAMAQ05-24LS	Mix Nozzle (A) 5.3 x 24 elements	0.21/5.3	0.35/9.0	4.5/115.0	Luer Slip

QuantX™ MIXERS

A selection of the most popular static mixers for A-style bayonet cartridge systems. The helical mixing design provides an efficient, effective method of mixing 2-component adhesives for a variety of applications. Also available in a luer lock version to enable precise micro dispensing.



Item Number	Description (All Ratio Helical)	I.D. (inch/mm)	O.D. (inch/mm)	Length (inch/mm)	Tip Style
FMAH250-20S	Mix Nozzle (A) 6.35 x 20 elements	0.25/6.35	0.33/8.5	5.9/150.0	Stepped
FMAH250-20LL	Mix Nozzle (A) 6.35 x 20 elements	0.25/6.35	0.33/8.5	6.4/162.0	Luer Lock

XEMEX® MIXERS

XEMEX static mixing nozzles are designed with patented laminar flow mixing geometry. It contains a bayonet connection that is compatible with most standard A-style 50 ml cartridges with mix ratios ranging from 1:1, 2:1, 4:1, and 10:1. It features a retained internal volume of only 0.6 ml and can be used for mixing epoxies, acrylics, methacrylates, silicones, and urethanes.



Item Number	Description (All Ratio Square)	I.D. (inch/mm)	O.D. (inch/mm)	Length (inch/mm)	Tip Style
EDSQ05-7YLS	Mix Nozzle (A) 5.3 x 7 elements	0.21/5.3	0.29/7.3	2.0/50.5	Luer Slip
EDSQ05-7YLL	Mix Nozzle (A) 5.3 x 7 elements	0.21/5.3	0.29/7.3	2.0/50.5	Luer Lock

MIXPAC™ B-SERIES MIXERS (SEPARATED OUTLET)

MIXPAC B-series mixers feature separated outlets to prevent cross contamination while making it easy to mount and dismount on compatible B-style cartridges. Their unique design provides a leak-free interface giving the user controlled adhesive performance with the highest process safety available. Offered in helical and Quadro styles in 1:1/2:1 and 4:1/10:1 mix ratios for dispensing a variety of epoxies, urethanes, acrylics, and other materials.



Item Number	Description (1:1/2:1 Helical)	I.D. (inch/ mm)	O.D. (inch/ mm)	Length (inch/ mm)	Tip Style
EAMBH03-12D	Mix Nozzle (B) 3.2 x 12 elements	0.13/3.2	0.20/5.0	2.5/63.5	Blunt
EAMBH03-12T	Mix Nozzle (B) 3.2 x 12 elements	0.13/3.2	0.20/5.0	2.3/58.0	Tapered
EAMBH03-16T	Mix Nozzle (B) 3.2 x 16 elements	0.13/3.2	0.20/5.0	3.0/76.5	Tapered
EAMBH03-16D	Mix Nozzle (B) 3.2 x 16 elements	0.13/3.2	0.20/5.0	2.8/70.7	Blunt
EAMBH03-16LS	Mix Nozzle (B) 3.2 x 16 elements	0.13/3.2	0.20/5.0	3.0/75.8	Luer Slip
EAMBH04-12D	Mix Nozzle (B) 4.2 x 12 elements	0.17/4.2	0.24/6.0	2.7/69.5	Blunt
EAMBH04-16T	Mix Nozzle (B) 4.2 x 16 elements	0.17/4.2	0.24/6.0	3.8/96.0	Tapered
EAMBH04-16D	Mix Nozzle (B) 4.2 x 16 elements	0.17/4.2	0.24/6.0	3.4/86.2	Blunt
EAMBH05-06S	Mix Nozzle (B) 5.4 x 6 elements	0.21/5.4	0.27/7.0	2.3/59.3	Stepped
EAMBH05-12D	Mix Nozzle (B) 5.4 x 12 elements	0.21/5.4	0.27/7.0	3.2/82.5	Blunt
EAMBH05-14D	Mix Nozzle (B) 5.4 x 14 elements	0.21/5.4	0.27/7.0	4.4/111.8	Blunt
EAMBH05-16S	Mix Nozzle (B) 5.4 x 16 elements	0.21/5.4	0.27/7.0	4.4/111.8	Stepped

Item Number	Description (1:1/2:1 Helical)	I.D. (inch/ mm)	O.D. (inch/ mm)	Length (inch/ mm)	Tip Style
EAMBH05-16LL	Mix Nozzle (B) 5.4 x 16 elements	0.21/5.4	0.27/7.0	4.8/122.4	Luer Lock
EAMBH05-20S	Mix Nozzle (B) 5.4 x 20 elements	0.21/5.4	0.27/7.0	5.2/132.8	Stepped
EAMBH06-11D	Mix Nozzle (B) 6.5 x 11 elements	0.26/6.5	0.35/9.0	3.5/88.5	Blunt
EAMBH06-16S	Mix Nozzle (B) 6.5 x 16 elements	0.26/6.5	0.35/9.0	5.2/131	Stepped
EAMBH06-20S	Mix Nozzle (B) 6.5 x 20 elements	0.26/6.5	0.35/9.0	6.2/157	Stepped
EAMBH06-20LL	Mix Nozzle (B) 6.5 x 20 elements	0.26/6.5	0.35/9.0	6.6/168	Luer Lock
EAMBH07-11D	Mix Nozzle (B) 7.5 x 11 elements	0.30/7.5	0.35/9.0	3.6/91.5	Blunt



Item Number	Description (4:1/10:1 Helical)	I.D. (inch/ mm)	O.D. (inch/ mm)	Length (inch/ mm)	Tip Style
EAMBHX03-16T	Mix Nozzle (B) 3.2 x 16 elements	0.13/3.2	0.20/5.0	3.0/77.0	Tapered
EAMBHX04-16T	Mix Nozzle (B) 4.2 x 16 elements	0.17/4.2	0.23/5.9	3.8/96.0	Tapered
EAMBHX04-16D	Mix Nozzle (B) 4.2 x 16 elements	0.17/4.2	0.23/5.9	3.4/86.2	Blunt
EAMBHX05-12D	Mix Nozzle (B) 5.4 x 12 elements	0.21/5.4	0.27/7.0	3.3/83.0	Blunt
EAMBHX05-16S	Mix Nozzle (B) 5.4 x 16 elements	0.21/5.4	0.27/7.0	4.4/111.0	Stepped
EAMBHX05-16LL	Mix Nozzle (B) 5.4 x 16 elements	0.21/5.4	0.27/7.0	4.8/122.4	Luer Lock
EAMBHX05-20S	Mix Nozzle (B) 5.4 x 20 elements	0.21/5.4	0.27/7.0	5.2/132.8	Stepped
EAMBHX06-16S	Mix Nozzle (B) 6.5 x 16 elements	0.26/6.5	0.35/9.0	5.2/132.8	Stepped
EAMBHX06-16D	Mix Nozzle (B) 6.5 x 16 elements	0.26/6.5	0.35/9.0	4.7/120.5	Blunt
EAMBHX06-20S	Mix Nozzle (B) 6.5 x 20 elements	0.26/6.5	0.35/9.0	6.2/157	Stepped
EAMBHX06-20LL	Mix Nozzle (B) 6.5 x 20 elements	0.26/6.5	0.35/9.0	6.6/168	Luer Lock



Item Number	Description (1:1/2:1 Quadro)	I.D. (inch/mm)	O.D. (inch/mm)	Length (inch/mm)	Tip Style
EAMBQ05-16LS	Mix Nozzle (B) 5.3 x 16 elements	0.21/5.3	0.25/6.5	3.6/90.7	Luer Slip
EAMBQ05-24LS	Mix Nozzle (B) 5.3 x 24 elements	0.21/5.3	0.27/6.5	4.8/122.0	Luer Slip









Item Number	Description (4:1/10:1 Quadro)	I.D. (inch/mm)	O.D. (inch/mm)	Length (inch/mm)	Tip Style
EAMBQX05-16LS	Mix Nozzle (B) 5.3 x 16 elements	0.21/5.3	0.25/6.5	3.6/90.7	Luer Slip
EAMBQX05-24LS	Mix Nozzle (B) 5.3 x 24 elements	0.21/5.3	0.27/6.5	4.8/122.0	Luer Slip



TIP STYLE IDENTIFICATION GUIDE








Tip Style	Examples
Luer Lock	
Luer Slip	
Stepped	
Tapered	
Blunt End	
Uni-Tip	

MANUAL 200 ML 2-COMPONENT CARTRIDGE DISPENSERS

Item Number	200 ml C-Style			
	1:1 (200 ml)	2:1 (200 ml)	4:1 (200 ml)	10:1 (200 ml)
 EAD200/400MN-MR	•	•	•	•
 EAD200MA-11/21	•	•		
 EAD200MA-41			•	
 EAD200MA-101				•
 EAD200MS-11/21	•	•		
 EAD200MS-41			•	
 EAD200MS-101				•



MANUAL 200 ML 2-COMPONENT CARTRIDGE DISPENSERS

Item Number	200 ml F-Style			
	1:1 (200 ml)	2:1 (200 ml)	4:1 (200 ml)	10:1 (200 ml)
 EAD200/400MN-MR	•	•	•	•
 EAD200MA-11/21	•	•		
 EAD200MA-41			•	
 EAD200MA-101				•
 EAD200MS-11/21	•	•		
 EAD200MS-41			•	
 EAD200MS-101				•



EAD200/400MN-MR MANUAL CARTRIDGE DISPENSER



EAD200MA SERIES MANUAL CARTRIDGE DISPENSER







EAD200MS SERIES MANUAL CARTRIDGE DISPENSER



EAD200MS Ratio Conversion Kits

Item Number	Description
EAD200PS-11/21CK	1:1/2:1 Conversion Kit
EAD200PS-41CK	4:1 Conversion Kit
EAD200PS-101CK	10:1 Conversion Kit





PNEUMATIC 200 ML 2-COMPONENT CARTRIDGE DISPENSERS

Item Number	200 ml C-Style			
	1:1 (200 ml)	2:1 (200 ml)	4:1 (200 ml)	10:1 (200 ml)
 EAD200/400PN-MR	•	•	•	•
 EAD200PS-11/21	•	•		
 EAD200PS-41			•	
 EAD200PS-101				•



EAD200/400PN-MR PNEUMATIC CARTRIDGE DISPENSER

PNEUMATIC 200 ML 2-COMPONENT CARTRIDGE DISPENSERS

Item Number	200 ml F-Style			
	1:1 (200 ml)	2:1 (200 ml)	4:1 (200 ml)	10:1 (200 ml)
 EAD200/400PN-MR	•	•	•	•
 EAD200PS-11/21	•	•		
 EAD200PS-41			•	
 EAD200PS-101				•











EAD200PS SERIES PNEUMATIC CARTRIDGE DISPENSER



Item Number	Description
EAD200PS-11/21CK	1:1/2:1 Conversion Kit
EAD200PS-41CK	4:1 Conversion Kit
EAD200PS-101CK	10:1 Conversion Kit

MANUAL 400 ML 2-COMPONENT CARTRIDGE DISPENSERS

Item Number	400 ml C-Style			
	1:1 (400 ml)	2:1 (400 ml)	4:1 (400 ml)	10:1 (400 ml)
 EAD200/400MN-MR	•	•	•	•
 EAD400MK-11	•			
 EAD400MA-11/21	•	•		
 EAD400MA-41			•	
 EAD400MA-101				•
 EAD400MS-11/21	•	•		
 EAD400MS-41			•	
 EAD400MS-101				•



**EAD200/400MN-MR
MANUAL CARTRIDGE
DISPENSER**











**EAD400MK-11 MANUAL
CARTRIDGE DISPENSER**



**EAD400MA SERIES
MANUAL CARTRIDGE
DISPENSER**

MANUAL 400 ML 2-COMPONENT CARTRIDGE DISPENSERS

Item Number	400 ml F-Style			
	1:1 (400 ml)	2:1 (400 ml)	4:1 (400 ml)	10:1 (400 ml)
 EAD200/400MN-MR	•	•	•	•
 EAD400MK-11	•			
 EAD400MA-11/21	•	•		
 EAD400MA-41			•	
 EAD400MA-101				•
 EAD400MS-11/21	•	•		
 EAD400MS-41			•	
 EAD400MS-101				•







**EAD400MS SERIES MANUAL
CARTRIDGE DISPENSER**



Item Number	Description
EAD400PS-11/21CK	1:1/2:1 Conversion Kit
EAD400PS-41CK	4:1 Conversion Kit
EAD400PS-101CK	10:1 Conversion Kit


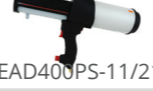


PNEUMATIC 400 ML 2-COMPONENT CARTRIDGE DISPENSERS

Item Number	400 ml C-Style			
	1:1 (400 ml)	2:1 (400 ml)	4:1 (400 ml)	10:1 (400 ml)
 EAD200/400PN-MR	•	•	•	•
 EAD400PS-11/21	•	•		
 EAD400PS-41			•	
 EAD400PS-101				•



EAD200/400PN-MR PNEUMATIC CARTRIDGE DISPENSER

PNEUMATIC 400 ML 2-COMPONENT CARTRIDGE DISPENSERS

Item Number	400 ml F-Style			
	1:1 (400 ml)	2:1 (400 ml)	4:1 (400 ml)	10:1 (400 ml)
 EAD200/400PN-MR	•	•	•	•
 EAD400PS-11/21	•	•		
 EAD400PS-41			•	
 EAD400PS-101				•



EAD400PS SERIES PNEUMATIC CARTRIDGE DISPENSER



Item Number	Description
EAD200PS-11/21CK	1:1/2:1 Conversion Kit
EAD200PS-41CK	4:1 Conversion Kit
EAD200PS-101CK	10:1 Conversion Kit

DSX-200/400 DUAL CARTRIDGE DISPENSE SYSTEM

The DSX-200 and DSX-400 dual cartridge dispense systems are excellent, cost-effective solutions for low-volume mixing and dispensing of 2-component materials supplied in 200 ml or 400 ml dual cartridges.

These bench-mounted systems are simple to set up and program for accurate 2-component dispensing of epoxies, silicones, urethanes and acrylics in potting, encapsulation, and bonding applications.

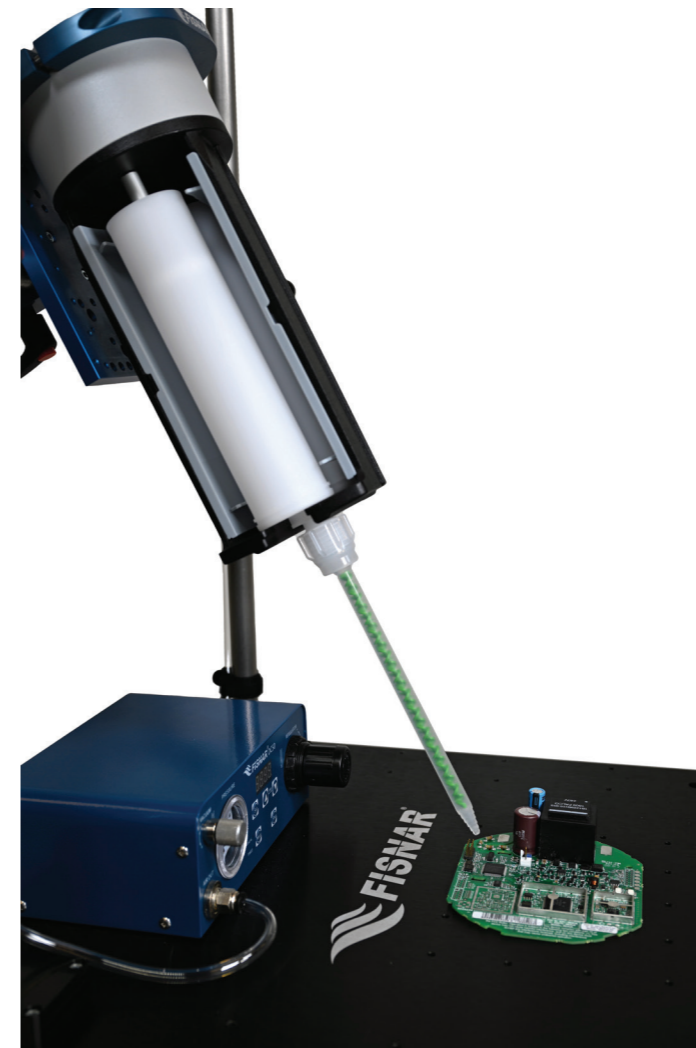
The systems utilize a pneumatically actuated piston, controlled by a pressure regulator to allow for consistent pressure control and metering.

Comes with the 710PT-U pinch tube valve and position control mounting assembly to ensure a drip-free cut-off and consistent results when dispensing low viscosity materials.

Item Number	Description
DSX-200	200 ml Dual Cartridge Dispense System
DSX-400	400 ml Dual Cartridge Dispense System



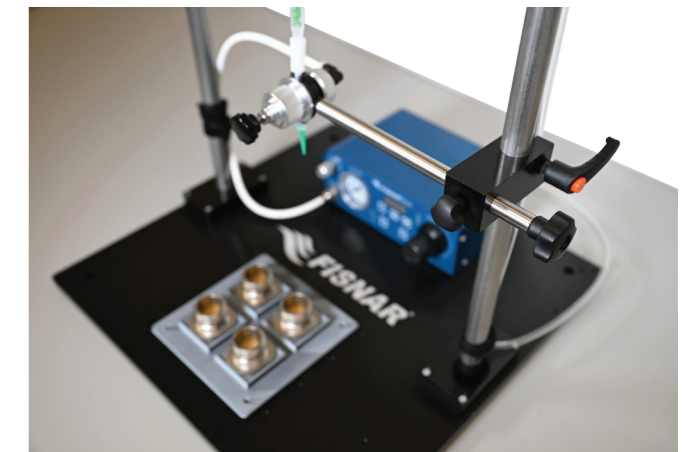
DSX-400 shown with included DC50 controller and 710PT-U valve.



DSX-400 shown dispensing at an angle with included DC50 controller.



Dispense/Retract Lever Valve Assembly.



710PT-U Mounting Bar Assembly.

FEATURES

- Drip-free and accurate dispense results
- Simple set up and operation
- Adjustable dispense height and angle
- DSX-200 compatible with 1:1, 2:1, 4:1, and 10:1 ratio C-Style and F-Style 200ml cartridges
- DSX-400 compatible with 1:1, 2:1, 4:1 and 10:1 ratio C-Style and F-Style 400ml cartridges
- Adjustable dispense volumes
- 3-way pneumatic lever control valve
- DC50 dispenser and 710PT-U valve included with DSX-200 and DSX-400
- Heavy duty industrial design

BENEFITS

- Anchoring holes located in the base plate to secure onto the workbench for maximum stability (hardware included)
- Suitable for both low to high viscosity fluids
- Dispensing from dual cartridges can be done hands-free thus improving process control
- Additional mounting points for easy attachment of a fixture for positional dispense accuracy
- Modular design allows for dispense equipment to be easily transferred onto a Fisnar robot
- 3-way lever valve ensures safe control of piston retraction and cartridge changeover

SPECIFICATIONS

Item Number	DSX-200	DSX-400
Air Input	70-100 psi	
Air Output	1 - 100 psi	
Air Input Connection	1/4" O.D.	
Cycle	Manual or Timed	
Input AC to Power Supply	100 - 240 VAC, 50/60 Hz	
Output DC from Power Supply	24V DC - 1 Amp	
Timer	0.008 - 99.99s	
Noise Level	83 dBA	
Standards	RoHS Compliant	

MANUAL/PNEUMATIC 600 ML 2-COMPONENT CARTRIDGE DISPENSERS

Item Number	J-Style	
	1:1 (600 ml)	2:1 (450 ml)
 EAD600MC-11/21	•	•
 EAD600MN-MR	•	•
 EAD600PC-11	•	
 EAD600PN-11	•	
 EAD600PN-21		•



EAD600MC-11/21 MANUAL CARTRIDGE DISPENSER



EAD600MN-MR MANUAL CARTRIDGE DISPENSER









EAD600PC-11 PNEUMATIC CARTRIDGE DISPENSER



EAD600PN SERIES PNEUMATIC CARTRIDGE DISPENSER



MANUAL/PNEUMATIC 1500 ML 2-COMPONENT CARTRIDGE DISPENSERS

Item Number	J-Style	
	 1:1 (1500 ml)	 10:1 (825 ml)
 EAD1500MS-MR	•	•
 EAD1500PC-11	•	
 EAD1500PN-11	•	
 EAD1500PN-101		•



Item Number	F-Style			
	 1:1 (1500 ml)	 2:1 (1125 ml)	 3:1 (1000 ml)	 4:1 (940 ml)
 EAD1500MS-MR	•	•	•	•
 EAD1500PS-MR	•	•	•	•



EAD1500PC PNEUMATIC CARTRIDGE DISPENSER



EAD1500PN SERIES PNEUMATIC CARTRIDGE DISPENSER



EAD1500MS-MR MANUAL CARTRIDGE DISPENSER



EAD1500PS-MR PNEUMATIC CARTRIDGE DISPENSER

MIXPAC™ C-SERIES BELL MOUTH MIXERS

MIXPAC C-series mixers feature a bell mouth design for quick and easy installation onto compatible C-style cartridge systems. Available in various styles and tip designs, they provide an efficient method of mixing 2-component adhesives and fluids for many different assembly and coating applications. Offered in helical and Quadro styles in 1:1/2:1 and 4:1/10:1 mix ratios for dispensing a variety of epoxies, urethanes, acrylic, and other materials.



Item Number	Description (All Ratio Helical)	I.D. (inch/ mm)	O.D. (inch/ mm)	Length (inch/ mm)	Tip Style
EAMCH05-18S	Mix Nozzle (C) 5.0 x 18 elements	0.20/5.0	0.31/8.0	4.8/122	Stepped
EAMCH05-24S	Mix Nozzle (C) 5.0 x 24 elements	0.20/5.0	0.31/8.0	5.9/150	Stepped
EAMCH05-32S	Mix Nozzle (C) 5.0 x 32 elements	0.20/5.0	0.31/8.0	7.4/188	Stepped
EAMCH06-18S	Mix Nozzle (C) 6.0 x 18 elements	0.24/6.0	0.39/10.0	5.9/150	Stepped
EAMCH06-24S	Mix Nozzle (C) 6.0 x 24 elements	0.24/6.0	0.39/10.0	7.4/184	Stepped
EAMCH06-32S	Mix Nozzle (C) 6.0 x 32 elements	0.24/6.0	0.39/10.0	9.2/234	Stepped
EAMCH08-18S	Mix Nozzle (C) 8.0 x 18 elements	0.31/8.0	0.47/12.0	7.0/178	Stepped
EAMCH08-24S	Mix Nozzle (C) 8.0 x 24 elements	0.31/8.0	0.47/12.0	8.9/225	Stepped
EAMCH08-32S	Mix Nozzle (C) 8.0 x 32 elements	0.31/8.0	0.47/12.0	11.3/287	Stepped
EAMCH10-18S	Mix Nozzle (C) 10.0 x 18 elements	0.39/10.0	0.55/14.0	8.5/215	Stepped
EAMCH10-20D	Mix Nozzle (C) 10.0 x 20 elements	0.39/10.0	0.55/14.0	8.5/215	Blunt
EAMCH10-24D	Mix Nozzle (C) 10.0 x 24 elements	0.39/10.0	0.55/14.0	10.1/257	Blunt
EAMCH10-24S	Mix Nozzle (C) 10.0 x 24 elements	0.39/10.0	0.55/14.0	10.9/277	Stepped
EAMCH10-32S	Mix Nozzle (C) 10.0 x 32 elements	0.39/10.0	0.55/14.0	13.9/352.0	Stepped
EAMCH13-12S	Mix Nozzle (C) 13.0 x 12 elements	0.51/13.0	0.67/17.0	6.7/170	Stepped
EAMCH13-18S	Mix Nozzle (C) 13.0 x 18 elements	0.51/13.0	0.67/17.0	9.1/232	Stepped
EAMCH13-24S	Mix Nozzle (C) 13.0 x 24 elements	0.51/13.0	0.67/17.0	11.6/294	Stepped
EAMCH13-32S	Mix Nozzle (C) 13.0 x 32 elements	0.51/13.0	0.67/17.0	14.9/ 679	Stepped



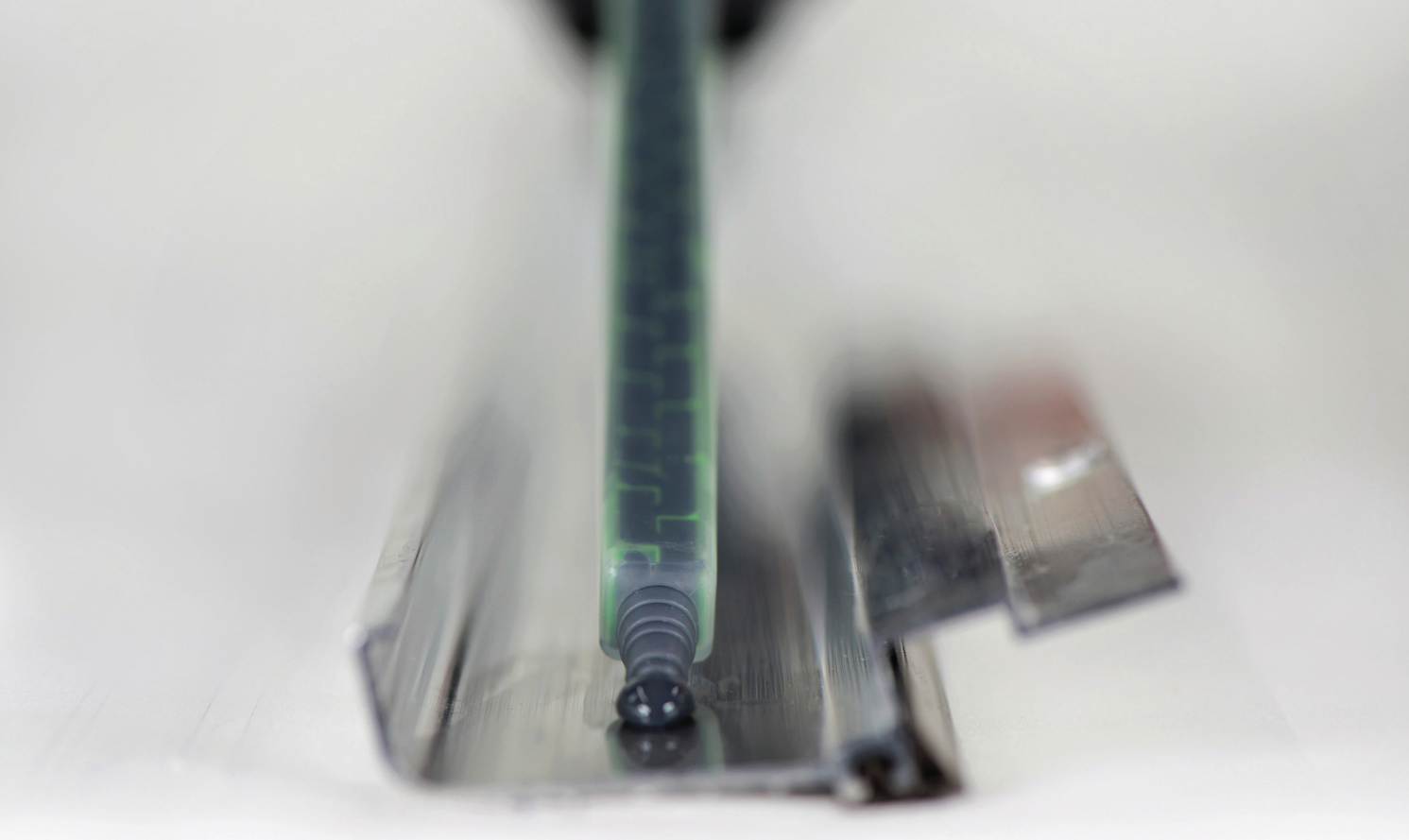
Item Number	Description (All Ratio Quadro)	I.D. (inch/ mm)	O.D. (inch/ mm)	Length (inch/ mm)	Tip Style
EAMCQ05-24LS	Mix Nozzle (C) 5.3 x 24 elements	0.21/5.3	0.31/8.0	5.0/127	Luer Slip
EAMCQ07-24S	Mix Nozzle (C) 7.5 x 24 elements	0.30/7.5	0.37/9.5	5.1/130	Stepped
EAMCQ08-24S	Mix Nozzle (C) 8.7 x 24 elements	0.34/8.7	0.41/10.5	5.8/147	Stepped
EAMCQ08-32S	Mix Nozzle (C) 8.7 x 32 elements	0.34/8.7	0.41/10.5	7.3/186	Stepped
EAMCQ10-24S	Mix Nozzle (C) 10.7 x 24 elements	0.42/10.7	0.49/12.5	6.8/172	Stepped
EAMCQ10-32S	Mix Nozzle (C) 10.7 x 32 elements	0.42/10.7	0.49/12.5	8.7/220	Stepped

MIXPAC™ CX-SERIES BELL MOUTH MIXERS

MIXPAC CX-series mixers feature a bell mouth design with a u-notch for quick and easy installation onto compatible C-style 4:1 and 10:1 cartridge systems. Available in various styles with a stepped tip design, they provide an efficient method of mixing 2-component adhesives and fluids for many different assembly and coating applications. Offered in helical style in 4:1 and 10:1 mix ratios for dispensing a variety of epoxies, urethanes, acrylic, and other materials.



Item Number	Description (4:1/10:1 Helical)	I.D. (inch/ mm)	O.D. (inch/ mm)	Length (inch/ mm)	Tip Style
EAMCHX08-18S	Mix Nozzle (CHX) 8.0 x 18 elements	0.31/8.0	0.47/12.0	7.2/183	Stepped
EAMCHX08-24S	Mix Nozzle (CHX) 8.0 x 24 elements	0.31/8.0	0.47/12.0	9.1/231	Stepped
EAMCHX10-12S	Mix Nozzle (CHX) 10.0 x 12 elements	0.39/10.0	0.55/14.0	6.2/157	Stepped
EAMCHX10-18S	Mix Nozzle (CHX) 10.0 x 18 elements	0.39/10.0	0.55/14.0	8.5/216	Stepped
EAMCHX10-24S	Mix Nozzle (CHX) 10.0 x 24 elements	0.39/10.0	0.55/14.0	10.9/276	Stepped
EAMCHX13-12S	Mix Nozzle (CHX) 13.0 x 12 elements	0.51/13.0	0.67/17.0	7.6/192	Stepped



MIXPAC™ G-SERIES QUADRO MIXERS

MIXPAC G-series Quadro mixers contain an integrated screw connection with 7/8-9 UNC threads that can be screwed directly onto most C-style cartridge systems without needing a separate retaining nut. Designed to accommodate many different mix ratios for dispensing a variety of epoxies, urethanes, silicones, acrylics, and other materials.



Item Number	Description (All Ratio Quadro)	I.D. (inch/mm)	O.D. (inch/mm)	Length (inch/mm)	Tip Style
EAMGQ08-18S	Mix Nozzle (G) 8.7 x 18 elements	0.34/8.7	0.46/11.7	5.1/129	Stepped
EAMGQ08-20D	Mix Nozzle (G) 8.7 x 20 elements	0.34/8.7	0.46/11.7	5.6/142	Blunt
EAMGQ08-20S	Mix Nozzle (G) 8.7 x 20 elements	0.34/8.7	0.46/11.7	5.6/142	Stepped
EAMGQ08-24D	Mix Nozzle (G) 8.7 x 24 elements	0.34/8.7	0.46/11.7	6.3/161	Blunt
EAMGQ08-24S	Mix Nozzle (G) 8.7 x 24 elements	0.34/8.7	0.46/11.7	6.3/161	Stepped
EAMGQ10-16D	Mix Nozzle (G) 10.7 x 16 elements	0.42/10.7	0.57/14.7	6.2/158	Blunt
EAMGQ10-19D	Mix Nozzle (G) 10.7 x 19 elements	0.42/10.7	0.57/14.7	6.2/158	Blunt
EAMGQ10-24D	Mix Nozzle (G) 10.7 x 24 elements	0.42/10.7	0.57/14.7	7.4/187	Blunt

XEMEX® C & G-SERIES BELL MOUTH MIXERS

XEMEX C & G-series static mixing nozzles feature a bell mouth design for quick and easy installation onto compatible C-style cartridge systems with mix ratios ranging from 1:1, 2:1, 4:1, and 10:1, or an automated system equipped with a 16.7 mm bell-style connection. They are designed with patented laminar flow mixing geometry to reduce pressure loss while eliminating blowout, air bubbling, and bowing issues commonly seen in automated systems. The mix nozzles feature a retained internal volume of only 2.5 ml and can be used for mixing epoxies, acrylics, methacrylates, silicones, and urethanes.



Item Number	Description (All Ratio Square)	I.D. (inch/mm)	O.D. (inch/mm)	Length (inch/mm)	Tip Style
EDSQ08-7YS	Mix Nozzle (C) 8.7 x 7 elements	0.34/8.7	0.43/11.2	3.08/78.2	Stepped
EDSQ08-7YLL	Mix Nozzle (C) 8.7 x 7 elements	0.34/8.7	0.43/11.2	3.08/78.2	Luer Lock
EDSGQ08-7YS	Mix Nozzle (G) 8.7 x 7 elements	0.34/8.7	0.43/11.2	3.08/78.2	Stepped

QuantX™ 2-COMPONENT SQUARE MIXERS

A selection of the most popular static mixers to suit C-style cartridge systems. The square mixing design provides an efficient and effective method of mixing 2-component adhesives for a variety of different dispense applications.



Item Number	Description (All Ratio Square)	I.D. (inch/mm)	O.D. (inch/mm)	Length (inch/mm)	Tip Style
FMCQ420-24S	Mix Nozzle (C) 10.7 x 24 elements	0.42/10.7	0.57/14.5	6.8/172	Stepped



Item Number	Description (All Ratio Square)	I.D. (inch/mm)	O.D. (inch/mm)	Length (inch/mm)	Tip Style
FMGQ340-24S	Mix Nozzle (C) 8.7 x 24 elements	0.35/8.7	0.46/11.7	6.3/161	Stepped

QuantX™ HELICAL MIXERS

A selection of the most popular static mixers to suit C-style cartridge systems. The helical mixing design provides an efficient and effective method of mixing 2-component adhesives for a variety of different dispense applications. The luer lock version enables a dispense tip to be securely attached for carrying out precise dispensing applications that require a small bead width or deposit size.



Item Number	Description (All Ratio Helical)	I.D. (inch/mm)	O.D. (inch/mm)	Length (inch/mm)	Tip Style
FMCH250-24S	Mix Nozzle (C) 6.3 x 24 elements	0.25/6.35	0.39/9.9	7.3/185	Stepped
FMCH250-24LS	Mix Nozzle (C) 6.3 x 24 elements	0.25/6.35	0.39/9.9	7.5/190	Luer Slip
FMCH250-24LL	Mix Nozzle (C) 6.3 x 24 elements	0.25/6.35	0.39/9.9	7.8/200	Luer Lock
FMCH250-32LS	Mix Nozzle (C) 6.3 x 32 elements	0.25/6.35	0.39/9.9	9.5/241	Luer Slip
FMCH370-18S	Mix Nozzle (C) 9.4 x 18 elements	0.37/9.4	0.52/13.2	7.3/185	Stepped
FMCH370-18LL	Mix Nozzle (C) 9.4 x 18 elements	0.37/9.4	0.52/13.2	7.9/246	Luer Lock
FMCH370-24S	Mix Nozzle (C) 9.4 x 24 elements	0.37/9.4	0.52/13.2	9.1/232	Stepped
FMCH370-24LL	Mix Nozzle (C) 9.4 x 24 elements	0.37/9.4	0.52/13.2	9.7/246	Luer Lock
FMCH370-30S	Mix Nozzle (C) 9.4 x 30 elements	0.37/9.4	0.52/13.2	11.2/286	Stepped
FMCH370-30LL	Mix Nozzle (C) 9.4 x 30 elements	0.37/9.4	0.52/13.2	11.9/302	Luer Lock
FMCH370-40S	Mix Nozzle (C) 9.4 x 40 elements	0.37/9.4	0.52/13.2	14.1/359	Stepped
FMCH370-40LL	Mix Nozzle (C) 9.4 x 40 elements	0.37/9.4	0.52/13.2	15/381	Luer Lock
FMCH430-18S	Mix Nozzle (C) 10.1 x 18 elements	0.40/10.1	0.56/14.1	8.4/214	Stepped
FMCH430-18LL	Mix Nozzle (C) 10.1 x 18 elements	0.40/10.1	0.56/14.1	9.1/231	Luer Lock
FMCH430-24S	Mix Nozzle (C) 10.1 x 24 elements	0.40/10.1	0.56/14.1	10.9/276	Stepped
FMCH430-24LL	Mix Nozzle (C) 10.1 x 24 elements	0.40/10.1	0.56/14.1	11.5/292	Luer Lock
FMCH500-24S	Mix Nozzle (C) 12.7 x 24 elements	0.50/12.7	0.65/16.5	11.6/295	Stepped
FMCH500-30S	Mix Nozzle (C) 12.7 x 30 elements	0.50/12.7	0.65/16.5	14.2/360	Stepped
FMCH500-32G	Mix Nozzle (C) 12.7 x 32 elements	0.50/12.7	0.67/17.0	14.7/374	Threaded
FMCH500-36S	Mix Nozzle (C) 12.7 x 36 elements	0.50/12.7	0.65/16.5	16.6/422	Stepped

QuantX™ MIX NOZZLE SHROUDS

QuantX aluminum mix nozzle shrouds are recommended for use when the pressure inside the mix nozzle is greater than 150 psi (10 bar). The shroud is placed over the mix nozzle to prevent the plastic mixer body from expanding and creating poorly mixed material.

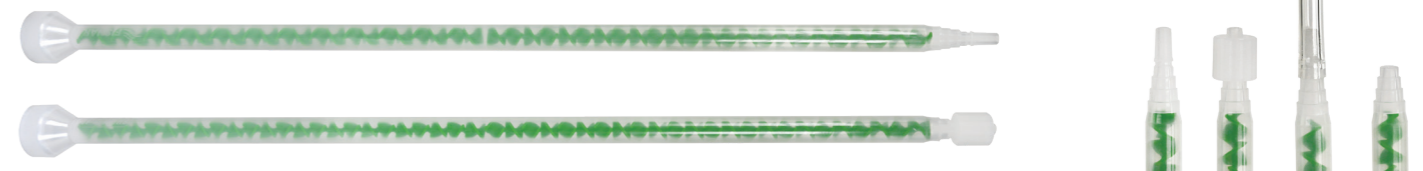
7/8-9 Thread	7/8-14 Thread	Compatible With
FMSH25024-T9	FMSH25024-T14	FMCH250-24S / FMCH250-24LS
FMSH25032-T9	FMSH25032-T14	FMCH250-32LS
FMSH37018-T9	FMSH37018-T14	FMCH370-18S
FMSH37024-T9	FMSH37024-T14	FMCH370-24S
FMSH37030-T9	FMSH37030-T14	FMCH370-30S
FMSH37040-T9	FMSH37040-T14	FMCH370-40S
FMSH43018-T9	FMSH43018-T14	FMCH430-18S
FMSH43024-T9	FMSH43024-T14	FMCH430-24S
FMSH50024-T9	FMSH50024-T14	FMCH500-24S
FMSH50030-T9	FMSH50030-T14	FMCH500-30S
FMCH50032-T9	FMSH50032-T14	FMCH500-32G



QuantX™ UNIMIXERS

QuantX UniMixers feature a uniquely designed fluid outlet which combines a stepped outlet with a luer slip outlet into one uniform design. A simple, easy to attach fitting can also be pushed onto the luer slip outlet to convert it into a luer lock outlet. This allows a dispense tip to be securely attached for carrying out precise dispensing applications that require a small bead width or deposit size.

Alternatively, a 1/8" I.D. fluid hose can be pushed onto the mixer outlet. For high flow applications the luer slip section of the outlet can be easily cut off, resulting in an industry standard stepped design outlet.



Item Number	Description (All Ratio Helical)	I.D. (inch/mm)	O.D. (inch/mm)	Length (inch/mm)	Tip Style
FMCH250-48UT	Mix Nozzle (C) 6.3 x 48 elements	0.25/6.35	0.37/9.4	13.4/340	Uni Tip
FMCH250-48LL	Mix Nozzle (C) 6.3 x 48 elements	0.25/6.35	0.37/9.4	13.4/340	Luer Lock

MIXPAC™ MS-SERIES BELL MOUTH MIXERS

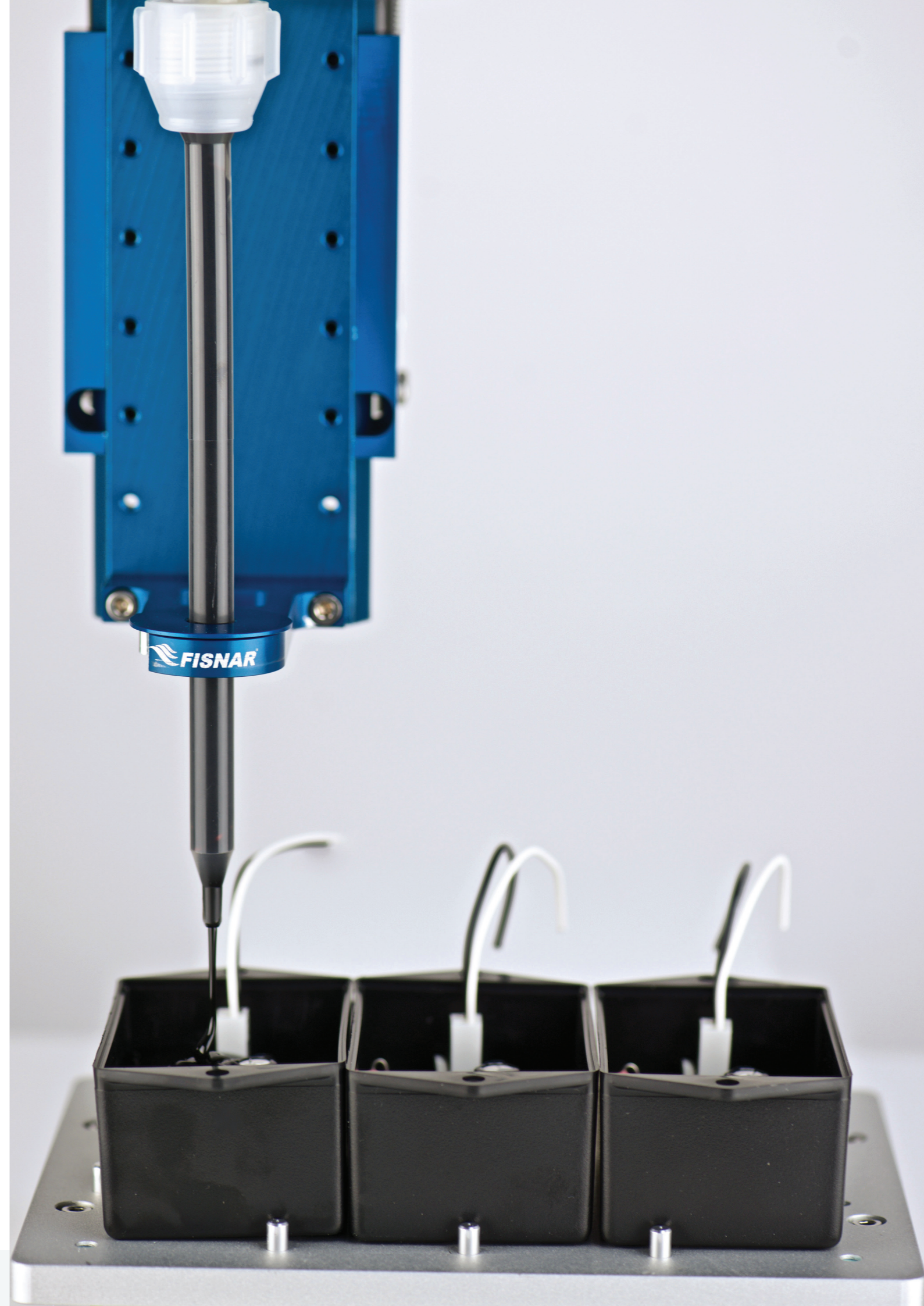
MIXPAC MS-series mixers feature a bell mouth design for quick, easy installation onto 2-component metering machines that use a 16.7 mm bell mouth manifold for different assembly and coating applications. Available in helical styling for 1:1/2:1, 4:1/10:1 mix ratios for dispensing various epoxies, urethanes, acrylics, and other materials.



Item Number	Description (All Ratio Helical)	I.D. (inch/mm)	O.D. (inch/mm)	Length (inch/mm)	Tip Style
EA05-24Y*	Mix Nozzle (C) 5.0 x 24 elements	0.20/5.0	0.31/8.0	5.87/149	Stepped
EA05-24YLL	Mix Nozzle (C) 5.0 x 24 elements	0.20/5.0	0.31/8.0	5.87/149	Luer Lock
EA05-32Y*	Mix Nozzle (C) 5.0 x 32 elements	0.20/5.0	0.31/8.0	7.40/188	Stepped
EA05-32YLL	Mix Nozzle (C) 5.0 x 32 elements	0.20/5.0	0.31/8.0	7.40/188	Luer Lock
EA06-24Y*	Mix Nozzle (C) 6.0 x 24 elements	0.25/6.35	0.40/10.0	7.32/186	Stepped
EA06-24YLL	Mix Nozzle (C) 6.0 x 24 elements	0.25/6.35	0.40/10.0	7.32/186	Luer Lock
EA06-32Y*	Mix Nozzle (C) 6.0 x 32 elements	0.25/6.35	0.40/10.0	9.25/235	Stepped
EA06-32YLL	Mix Nozzle (C) 6.0 x 32 elements	0.25/6.35	0.40/10.0	9.25/235	Luer Lock
EA06-48Y*	Mix Nozzle (C) 6.0 x 48 elements	0.25/6.35	0.40/10.0	13.15/334	Stepped
EA06-48YLL	Mix Nozzle (C) 6.0 x 48 elements	0.25/6.35	0.40/10.0	13.15/334	Luer Lock
EA08-24Y*	Mix Nozzle (C) 8.0 x 24 elements	0.31/8.0	0.41/10.5	8.78/223	Stepped
EA08-24YLL	Mix Nozzle (C) 8.0 x 24 elements	0.31/8.0	0.41/10.5	8.78/223	Luer Lock
EA08-32Y*	Mix Nozzle (C) 8.0 x 32 elements	0.31/8.0	0.41/10.5	11.30/277	Stepped
EA08-32YLL	Mix Nozzle (C) 8.0 x 32 elements	0.31/8.0	0.41/10.5	11.30/277	Luer Lock
EA10-24Y*	Mix Nozzle (C) 10.0 x 24 elements	0.40/10.0	0.55/14.0	10.87/276	Stepped
EA10-24YLL	Mix Nozzle (C) 10.0 x 24 elements	0.40/10.0	0.55/14.0	10.87/276	Luer Lock
EA10-32Y*	Mix Nozzle (C) 10.0 x 32 elements	0.40/10.0	0.55/14.0	13.86/352	Stepped
EA10-32YLL	Mix Nozzle (C) 10.0 x 32 elements	0.40/10.0	0.55/14.0	13.86/352	Luer Lock
EA13-24Y*	Mix Nozzle (C) 13.0 x 24 elements	0.51/13.0	0.67/17.0	11.53/293	Stepped
EA13-24YLL	Mix Nozzle (C) 13.0 x 24 elements	0.51/13.0	0.67/17.0	11.53/293	Luer Lock
EA13-32Y*	Mix Nozzle (C) 13.0 x 32 elements	0.51/13.0	0.67/13.0	14.92/379	Stepped
EA13-32YLL	Mix Nozzle (C) 13.0 x 32 elements	0.51/13.0	0.67/13.0	14.92/379	Luer Lock



*Mix Nozzle Shrouds available to purchase separately.



MIXPAC™ F-SERIES MIXERS (SEPARATED OUTLET)

MIXPAC F-series mixers feature separated outlets to prevent cross contamination while making it easy to mount and dismount on compatible F-style cartridges. Their unique design provides a leak-free interface giving the user controlled adhesive performance with the highest process safety available. Offered in helical and Quadro styles in 1:1/2:1 and 4:1/10:1 mix ratios for dispensing a variety of epoxies, urethanes, silicones, acrylics, and other materials.



Item Number	Description (1:1/2:1 Helical)	I.D. (inch/mm)	O.D. (inch/mm)	Length (inch/mm)	Tip Style
EAMFH06-18S	Mix Nozzle (F) 6.0 x 18 elements	0.24/6.0	0.39/10.0	6.1/156	Stepped
EAMFH06-24S	Mix Nozzle (F) 6.0 x 24 elements	0.24/6.0	0.39/10.0	7.6/194	Stepped
EAMFH06-32S	Mix Nozzle (F) 6.0 x 32 elements	0.24/6.0	0.39/10.0	9.7/245	Stepped
EAMFH08-18S	Mix Nozzle (F) 8.0 x 18 elements	0.31/8.0	0.47/12.0	7.4/187	Stepped
EAMFH08-24S	Mix Nozzle (F) 8.0 x 24 elements	0.31/8.0	0.47/12.0	9.2/234	Stepped
EAMFH08-32S	Mix Nozzle (F) 8.0 x 32 elements	0.31/8.0	0.47/12.0	11.7/297	Stepped
EAMFH10-18S	Mix Nozzle (F) 10.0 x 18 elements	0.39/10.0	0.55/14.0	8.8/224	Stepped
EAMFH10-24S	Mix Nozzle (F) 10.0 x 24 elements	0.39/10.0	0.55/14.0	11.1/283	Stepped
EAMFH10-32S	Mix Nozzle (F) 10.0 x 32 elements	0.39/10.0	0.55/14.0	14.2/362	Stepped
EAMFH13-18S	Mix Nozzle (F) 13.0 x 18 elements	0.51/13.0	0.67/17.0	9.1/232	Stepped
EAMFH13-24S	Mix Nozzle (F) 13.0 x 24 elements	0.51/13.0	0.67/17.0	11.6/294	Stepped



Item Number	Description (1:1/2:1 Quadro)	I.D. (inch/mm)	O.D. (inch/mm)	Length (inch/mm)	Tip Style
EAMFQ05-16LS	Mix Nozzle (F) 5.3 x 16 elements	0.21/5.3	0.31/8.0	3.9/100	Luer Slip
EAMFQ05-24LS	Mix Nozzle (F) 5.3 x 24 elements	0.21/5.3	0.31/8.0	5.2/132	Luer Slip
EAMFQ07-24S	Mix Nozzle (F) 7.5 x 24 elements	0.30/7.5	0.37/9.5	5.4/137	Stepped
EAMFQ08-24S	Mix Nozzle (F) 8.7 x 24 elements	0.34/8.7	0.41/10.5	6.1/155	Stepped
EAMFQ08-24D	Mix Nozzle (F) 8.7 x 24 elements	0.34/8.7	0.41/10.5	6.1/155	Blunt
EAMFQ08-32D	Mix Nozzle (F) 8.7 x 32 elements	0.34/8.7	0.41/10.5	7.8/198	Blunt
EAMFQ10-24S	Mix Nozzle (F) 10.7 x 24 elements	0.42/10.7	0.49/12.5	7.1/181	Stepped



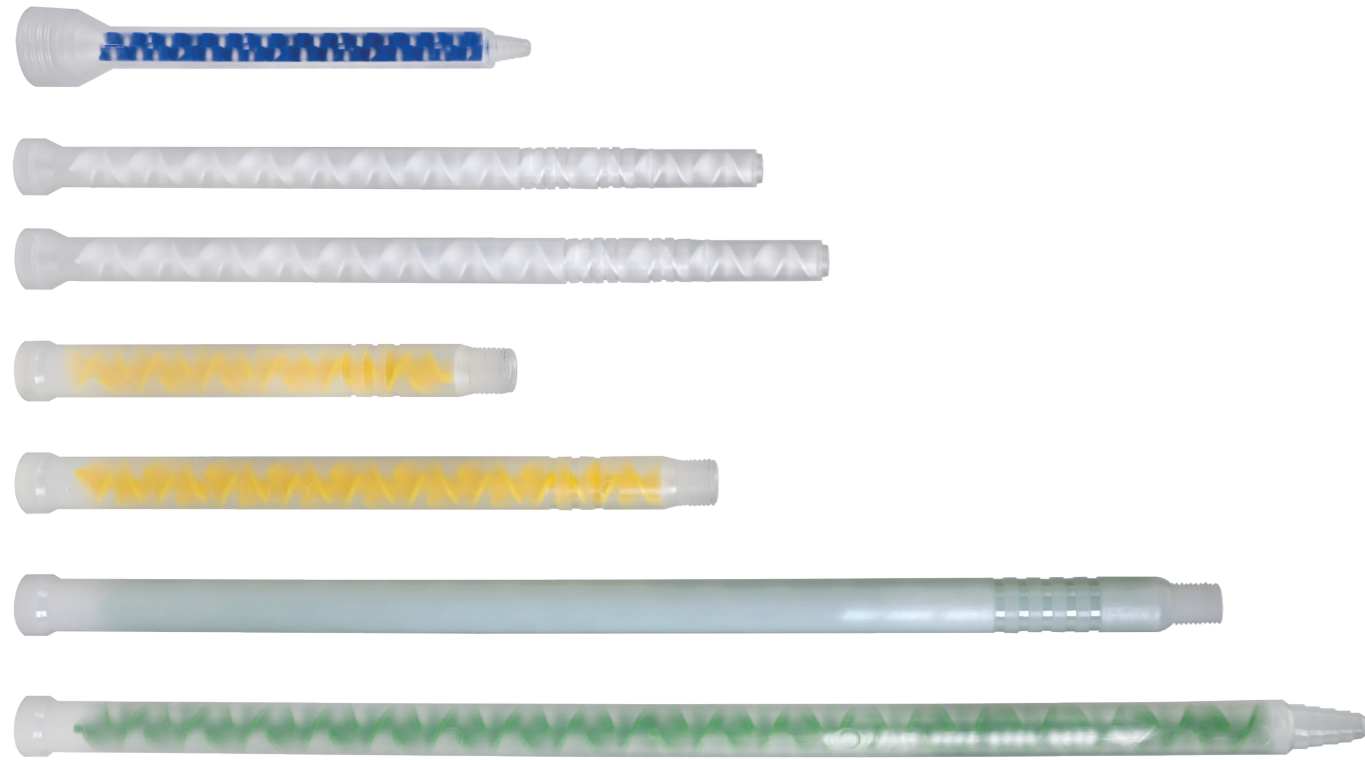
Item Number	Description (4:1/10:1 Helical)	I.D. (inch/mm)	O.D. (inch/mm)	Length (inch/mm)	Tip Style
EAMFHX06-18S	Mix Nozzle (F) 6.0 x 18 elements	0.24/6.0	0.39/10.0	6.1/156	Stepped
EAMFHX06-24S	Mix Nozzle (F) 6.0 x 24 elements	0.24/6.0	0.39/10.0	7.6/194	Stepped
EAMFHX06-32S	Mix Nozzle (F) 6.0 x 32 elements	0.24/6.0	0.39/10.0	9.7/245	Stepped
EAMFHX08-18S	Mix Nozzle (F) 8.0 x 18 elements	0.31/8.0	0.47/12.0	7.4/187	Stepped
EAMFHX08-24S	Mix Nozzle (F) 8.0 x 24 elements	0.31/8.0	0.47/12.0	9.2/234	Stepped
EAMFHX08-32S	Mix Nozzle (F) 8.0 x 32 elements	0.31/8.0	0.47/12.0	11.7/297	Stepped
EAMFHX10-18S	Mix Nozzle (F) 10.0 x 18 elements	0.39/10.0	0.55/14.0	8.8/224	Stepped
EAMFHX10-24S	Mix Nozzle (F) 10.0 x 24 elements	0.39/10.0	0.55/14.0	11.1/283	Stepped
EAMFHX10-32S	Mix Nozzle (F) 10.0 x 32 elements	0.39/10.0	0.55/14.0	14.2/362	Stepped
EAMFH13-18S	Mix Nozzle (F) 13.0 x 18 elements	0.51/13.0	0.67/17.0	9.1/232	Stepped
EAMFH13-24S	Mix Nozzle (F) 13.0 x 24 elements	0.51/13.0	0.67/17.0	11.6/294	Stepped



Item Number	Description (4:1/10:1 Quadro)	I.D. (inch/mm)	O.D. (inch/mm)	Length (inch/mm)	Tip Style
EAMFQX05-16LS	Mix Nozzle (F) 5.3 x 16 elements	0.21/5.3	0.31/8.0	3.9/100	Luer Slip
EAMFQX05-24LS	Mix Nozzle (F) 5.3 x 24 elements	0.21/5.3	0.31/8.0	5.2/132	Luer Slip
EAMFQX07-24S	Mix Nozzle (F) 7.5 x 24 elements	0.30/7.5	0.37/9.5	5.4/137	Stepped
EAMFQX08-24S	Mix Nozzle (F) 8.7 x 24 elements	0.34/8.7	0.41/10.5	6.1/155	Stepped
EAMFQX08-32D	Mix Nozzle (F) 8.7 x 32 elements	0.34/8.7	0.41/10.5	7.8/198	Blunt
EAMFQX10-24S	Mix Nozzle (F) 10.7 x 24 elements	0.42/10.7	0.49/12.5	7.1/181	Stepped

SPECIALTY MIXERS

Specialty mixers in various sizes, styles, and tip designs to provide an efficient method of mixing 2-component adhesives and fluids. Available in helical and square formats for different viscosities and mixing ratios. Compatible with epoxies, urethanes, acrylics, and more.



Item Number	Description	I.D. (inch/ mm)	O.D. (inch/ mm)	Length (inch/ mm)	Tip Style
FMGQ340-24S	Mix Nozzle (G) 8.7 x 24 elements	0.34/8.7	0.46/11.7	6.3/161	Stepped
EAMCH10-20D	Mix Nozzle (C) 10.0 x 20 elements	0.39/10.0	0.55/14.0	10.1/257	Blunt
EAMCH10-24D	Mix Nozzle (C) 10.0 x 24 elements	0.39/10.0	0.55/14.0	10.9/277	Blunt
EA13-12YG	Mix Nozzle (C) 13.0 x 12 elements	0.51/13.0	0.67/17.0	6.3/159	Threaded
EA13-18YG	Mix Nozzle (C) 13.0 x 18 elements	0.51/13.0	0.67/17.0	8.8/223	Threaded
FMCH500-32G	Mix Nozzle (C) 12.7 x 32 elements	0.5/12.65	0.67/17.0	14.8/375	Threaded
FMCH500-36S	Mix Nozzle (C) 12.7 x 32 elements	0.5/12.65	0.67/17.0	16.6/422	Stepped

SPECIALTY MIXER TIPS

A selection of various nozzle tips compatible with MIXPAC C-series mixers (sold separately) for dispensing flat ribbons or shaped beads. Also helps for dispensing beads at angles or on edges

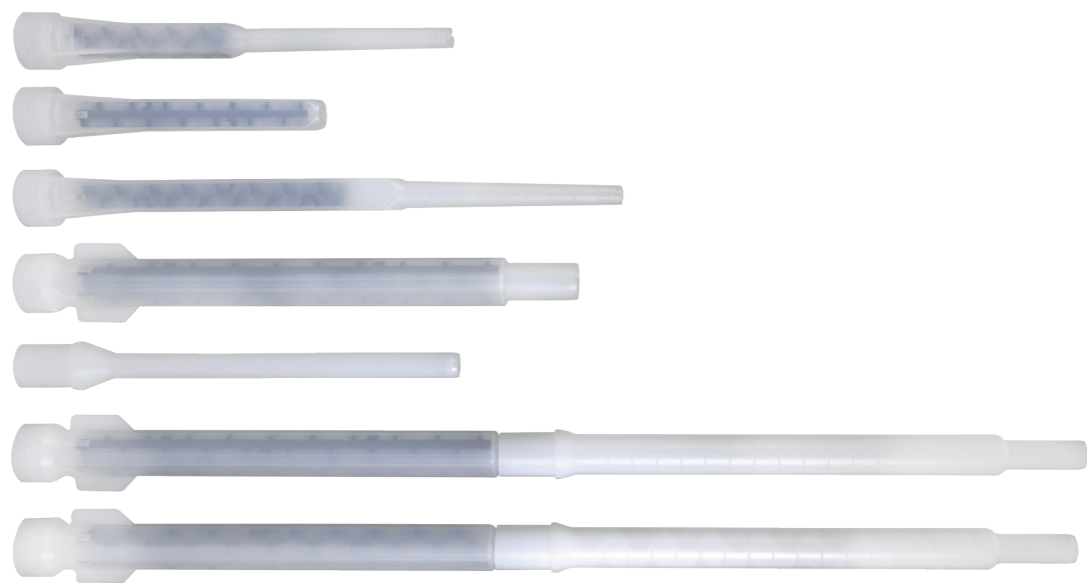


*Mixer and nozzle sold separately

Item Number	Description	Mixer Compatibility
EA08-38Q	Adjustable Spreader Tip 8.7 x 15 - 38 mm	FMGQ340-24S
EA08-50	Adjustable Spreader Tip 8.0 x 15 - 50 mm	EAMCH08-18S / EAMCH08-24S / EAMCH08-32S
EA10-25	Spreader Tip 10.0 x 25 mm	EAMCH10-24D
EA10-40	Spreader Tip 10.0 x 40 mm	EAMCH10-24D
EA10-TA	Tapered Tip 10.0 x 2.5 mm outlet	EAMCH10-24D
EA10-TC	Gap Filling Fillet Tip 10.0	EAMCH10-24D
A3800P	Fillet Tip	EA13-12YG / EA13-18YG
A4006P	Tapered Tip	EA13-12YG / EA13-18YG
EA13-50	Adjustable Spreader Tip 13.0 x 15 - 50 mm	FMCH500-36S

MIXPAC™ G-SERIES HI-FLOW MIXERS

A selection of high-flow mixers in various sizes, styles, and tip designs for an efficient, fast method of mixing 2-component materials. Available in helical and Quadro formats to support different material viscosities. Compatible with many different materials including epoxies, urethanes, acrylics, and more.



Item Number	Description	I.D. (inch/mm)	O.D. (inch/mm)	Length (inch/mm)	Tip Style
EAMGEQ10-10HFD	Mix Nozzle (G) 10.7 x 10 elements	0.42/10.7	0.57/14.7	7.1/181	Blunt
EAMGQ10-14HFD	Mix Nozzle (G) 10.7 x 14 elements	0.42/10.7	0.57/14.7	5.0/128	Blunt
EAMGEQ10-19HFD	Mix Nozzle (G) 10.7 x 19 elements	0.42/10.7	0.57/14.7	10.1/256	Blunt
EAMGQ14-20HFD	Mix Nozzle (G) 14.0 x 20 elements	0.55/14.0	0.67/17	9.4/238	Blunt
EAMG14-190D	190mm extension nozzle for EAMGQ14-20HFD	0.23/5.9	0.43/10.9	7.5/190	Blunt
EAMGEQ14-20HFD	Mix Nozzle (G) 14.0 x 20 elements x empty extension nozzle	0.55/14.0	0.67/17	17.6/447	Blunt
EAMGEQ14-38HFD	Mix Nozzle (G) 14.0 x 20 elements x 18 element extension nozzle (38 elements total)	0.55/14.0	0.67/17	17.6/447	Blunt

CARTRIDGE RETAINING NUTS



Item Number	Description
EARNH-10	14.3 mm I.D. Cartridge Retaining Nut 7/8-9 UNC - PP
EARNH-13	17.2 mm I.D. Cartridge Retaining Nut 7/8-9 UNC - PP
EARNQH-10	Q14.7 x 14.7/H16.85 I.D. Cartridge Retaining Nut 7/8-9 UNC - POM
EARNQ-15	15 x 15 mm I.D. Cartridge Retaining Nut - PP

LUER LOCK ADAPTERS



Item Number	Description
EA05-00L	Luer Lock Adapter for 5.0 mm I.D. Helical Mixers - White
EA06-08L	Luer Lock Adapter for 6.0 - 8.0 mm I.D. Helical Mixers - Grey
EA10-00L	Luer Lock Adapter for 10.0 mm I.D. Helical Mixers - Black
FMLL-N	Luer Lock Adapter for Uni Tip Mixers - Natural

MIXER COUPLER



Item Number	Description	Mixer Compatability
562366	1/4" NPT Female Connector	FMCH500-32G
560657	1/4" O.D. Compression Fitting	FMCH500-32G
560726	3/8" O.D. Compression Fitting	FMCH500-32G

LIQUID DISPENSERS



DC50 GENERAL PURPOSE DISPENSER

A general purpose, easy-to-use digital dispenser with a bright 4-digit LED display. The simple, user friendly programming enables a dispense cycle to be quickly created and automatically displayed.

Modes:

Manual Mode: The dispense operation is manually controlled by a foot pedal.

Timed Mode: Dispenses at a pre-set time for controlled, repeatable shot sizes.



Push-to-connect style fitting standard on DC50 controller.

FEATURES

- 1 programmable memory slot
- 0 - 100 psi pressure regulator gauge
- Two dispense modes (manual and timed))
- Worldwide compatible power supply
- 4-digit LED display (0 to 99.99s)
- Durable aluminum housing designed for industrial work environments
- Compact, easy-to-use design

Item Number	Description
DC50	General Purpose Digital Dispenser

SPECIFICATIONS

Input AC to Power Supply	100 - 240 VAC, 50/60 Hz
Output DC from Power Supply	24 VDC - 1 Amp
Cycle Rate	Up to 600 cycles/min
Relative Humidity	20 - 90% (No Condensation)
Operating Temperature	50 - 104 °F (10 - 40 °C)
Timer	0.008 - 99.99s
Air Input	100 psi (7 bar) max
Air Output	1 - 100 psi (0.07-7 bar)
Dimensions (WxDxH)	192 x 182 x 76 mm (7.56 x 7.17 x 3.00")
Weight	0.97 kg (2.14 lb)
Standards	CE and UCKA Approved, RoHS Compliant

Item Number	Description
560021U	Syringe Barrel Stand

Stand sold separately.



DC50 MAX PRECISION DISPENSER

A precision, easy-to-use digital dispenser with a bright 4-digit LED display and digital pressure gauge. The simple, user friendly programming enables a dispense cycle to be quickly created and automatically displayed.

Modes:

Manual Mode: The dispense operation is manually controlled by a foot pedal.

Timed Mode: Dispenses at a pre-set time for controlled, repeatable shot sizes.



Push-to-connect style fitting standard on DC50 MAX controller.

Stand included.

FEATURES

- One programmable memory slot
- 0 - 100 psi digital pressure gauge
- Precision pressure regulator
- Two dispense modes (manual & timed)
- Worldwide compatible power supply
- 4-digit LED display (0 to 99.99s)
- Durable aluminum housing designed for industrial work environments
- Compact, easy-to-use design

Item Number	Description
DC50 MAX	Precision Digital Dispenser

SPECIFICATIONS

Input AC to Power Supply	100 - 240 VAC, 50/60 Hz
Output DC from Power Supply	24 VDC - 1 Amp
Cycle Rate	Up to 600 cycles/min
Relative Humidity	20 - 90% (No Condensation)
Operating Temperature	50 - 104 °F (10 - 40 °C)
Timer	0.008 - 99.99s
Air Input	100 psi (7 bar) max
Air Output	1 - 100 psi (0.07 - 7 bar)
Dimensions (WxDxH)	192 x 186 x 76 mm (7.56 x 7.17 x 3.00")
Weight	0.97 kg (2.14 lb)
Standards	CE and UCKA Approved, RoHS Compliant



Item Number	Description
560021U	Syringe Barrel Stand

Stand sold separately.

FSX SYRINGE BARREL STAND

The FSX syringe stand provides better storage for syringe barrels when not in use to prevent accidental damage to the dispense tip and capture fluid drips. The storage bottle also protects the tip from contaminants and lighting that may affect the fluid inside.

The convenient built-in purge trays allow for purging a small amount of fluid into a clean, contained location—helpful when setting up a new dispense tip or checking fluid flow.



Item Number	Description
5601969	FSX Syringe Barrel Stand
Spare Parts	
Item Number	Description
5601970	Purge Tray
5601971	Drip Bottle

FINGER SWITCHES

Designed for use in situations where it is not convenient to use a foot pedal or for operators who prefer finger switches when actuating the dispense controller. These finger switches are easily adjustable and can be fitted to a wide range of cartridges, retainers, and barrels.

Cartridge Retainer Switches

Item Number	Description
FS-501VDC	For use with DC50/DC50 MAX/DC100 MAX

Barrel Switches

Item Number	Description
560023-LFDC	For use with DC50/DC50 MAX/DC100 MAX



Metal retainer, syringe barrel, and receiver head sold separately.

DC100 MAX HIGH PRECISION DISPENSER

A versatile, high-precision dispenser designed for a wide variety of applications including microdots, beads, potting, filling, and more. The advanced user-friendly software features a wide range of intelligent functions allowing maximum accuracy and control.

Programmable alarms can be set to notify the user when the fluid material life has ended, or when fluctuations in the dispensing pressure have occurred. The sequence function enables the dispense time to be changed at pre-set time intervals or shots throughout the process. This ensures consistent dispense results are maintained that may have been affected by a fluctuation in fluid viscosity or a reduction in the syringe fluid level.



FEATURES

- 16 programmable memory slots
- 5 dispense operation modes (Purge, Teach, Timed, Time+, Cycle) and Sequence function
- Multilingual display (English, French, Spanish, German, Chinese Mandarin)
- Digital display (time, pressure vacuum)
- Dispense cycle & time counter, and limit alarm
- Pressure and vacuum alarm
- Total machine time usage and cycle monitor
- Internal pressure and vacuum calibration function
- Pressure and vacuum measurement units
- Momentary or latching shot actuation signal
- 10 channel I/O circuit and test mode
- RS232 port for external programming and control
- Worldwide compatible power supply

BENEFITS

- Digital dispensing parameters for improved process control
- Precision regulator and high flow solenoid for high accuracy repeatable dispensing
- Vacuum control helps prevent thin fluids from dripping between dispense cycles
- Operator lockout function eliminates dispense programs and functions from being modified
- Auto-purge cycle and glue alarm prevents premature curing of two-component fluid materials
- Machine copy feature allows dispense parameters to be quickly transferred onto other dispensers
- Option to attach a barcode scanner for touch-free program selection and dispense actuation
- Push fitting air outlet design for universal functionality

I/O COMMUNICATION

10 channel I/O circuit for external actuation, monitoring and ability to set program number.

- CC Start Signal - 24V Start Signal - Alarm in - Alarm reset
- Program Number (Bit 0, 1, 2, & 3) - Program Select
- Alarm out - Machine Ready - Machine Busy - End of Cycle

RS232 EXTERNAL CONTROL

MODBUS: Allows the machine to be fully programmed and controlled by an external device via MODBUS (RTU) data communication protocol.

BARCODE: Allows a barcode scanner to be connected to the dispenser. The barcode scanner is able to select the program number and actuate a dispense cycle.



Item Number	Description
DC100 MAX	High Precision Digital Dispenser

SPECIFICATIONS

Cycle Rate	600+ cycles/min
Dispense Time	0.008 - 999.9s
Programs	16 Memory Slots
Input AC to Power Supply	100 - 240 VAC, 50/60 Hz
Output DC from Power Supply	24 VDC - 0.75 Amp
Air Input	70 - 100 psi (7 bar) max
Air Output	1 - 100 psi (0.07 - 7 bar)
Operating Temperature	50 - 104 °F (10 - 40 °C)
Relative Humidity	20 - 90% (No Condensation)
Dimensions (WxDxH)	192 x 179 x 72 mm (7.53 x 7.05 x 2.83")
Weight	1.05 kg (2.31 lb)
Standards	CE & UKCA Approved, RoHS & EMC Compliant

Item Number	Description
560021U	Syringe Barrel Stand



Stand sold separately.

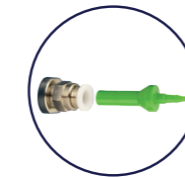


FD100 FOOT DISPENSER

The FD100 foot pedal dispenser is an all-pneumatic fluid dispense system activated in a hands-free way allowing a simple method for dispensing from syringes or cartridges.

Its internally actuated air valve, pressure regulator, and gauge ensure consistent dispense results. The vacuum control valve can be used to prevent low viscosity fluids from dripping in-between dispense cycles.

The FD100 is suitable for dispensing all types of fluids and helps achieve better control than standard manual dispensing processes.



Push-to-connect style fitting standard on FD100 controller.



Stand Included

FEATURES

- Economical and simple to use
- Suitable for a wide range of applications
- Barrel suck-back control
- All-pneumatic operation allows machine to be used in locations without electrical supply sources
- Suitable for use in heavy industrial environments
- Supplementary bracket and stand assemblies included for improved convenience and productivity

Item Number	Description
FD100	Foot Dispenser

SPECIFICATIONS

Cycle	Manual
Air Input	70 - 100 psi
Air Output	1 - 100 psi
Dimensions (WxDxH)	100 x 208 x 110 mm (3.9 x 8.2 x 4.3")
Weight	1.82 kg (4.01 lb)

Spare Parts (Included)

Item Number	Description
5601980	Dispenser Cable & Tubing Organizer
5601981	Retainer Holder - 58 mm I.D.



PPD-230 PERISTALTIC PUMP DISPENSER

Peristaltic pump dispensers transfer low-viscosity liquids by pressure displacement applied to a turning rotor against a tube-carrying fluid.

The PPD-230 offers excellent features for air-free positive displacement dispensing of materials, such as cyanoacrylates, anaerobics, solvents, acids, and other low-viscosity fluids.

Dispense outputs can be timed from 0.01 to 999.9 seconds with flow speeds from 2.9 to 20.3 ml/min using high performance silicone or thermo plastic elastomer (TPE) tubing. The bidirectional control of the pump allows the fluid to be retracted backwards inside the tubing to prevent dripping.



Dispense Pen and Stand Included.

FEATURES

- Air-free dispensing
- Digital timer and speed control for accurate and repeatable dispense results
- Adjustable forward and reverse pump speed control
- Programmable delay time before reverse direction to control suck-back of fluid flow
- Operator lockout function to keep programs from being modified.
- Output signal to indicate end of cycle
- Large segment digital LED display
- Dispense cycle counter for tracking completed dispense cycles.
- 3 dispense modes (manual, timed and cycle) for use in many applications.
- 7 channel I/O circuit for external control and robot integration.

Item Number	Description
PPD-230	Peristaltic Pump Dispenser

SPECIFICATIONS

Timer	0.01 - 99.99s
Flow Speed	2.9 - 20.3 ml/min
Pump Speed	Up to 107 rpm
Max Fluid Viscosity	Up to 5,000 Cps
Input AC to Power Supply	120 - 240 VAC, 50/60 Hz
Output DC to Power Supply	24V DC - 1.0 Amp
Dimensions (WxDxH)	192 x 158 x 76 mm (7.56 x 6.22 x 3.00")
Weight	0.68 kg (1.5 lb)
Standards	CE Approved, RoHS Compliant



Accessories Included

Item Number	Description	
5602009	Dispensing Pen (with switch)	
5602010	LL Nozzle for 1.0mm I.D Tubing	
5602011	LL Nozzle for 2.0mm I.D. Tubing	
5602012-10FT	Innovasil* 1.0 mm I.D. Tubing	
5602013-10FT	Innovaprene** 1.0 mm I.D. Tubing	
5602014-10FT	Innovasi* 2.0 mm I.D. Tubing	
5602015-10FT	Innovaprene** 2.0 mm I.D. Tubing	
EARB424	4oz Round Bottle - Natural	
EARB424-BK	4oz Round Bottle - Black	
EARC24	Ribbed Cap	
5602017	Snap Top Cap - 0.25" Orifice	

* Innovasil tubing is a high purity platinum cured silicone tube designed for peristaltic pumps. With an ultra smooth internal surface particle entrapment is significantly reduced making it suitable for use with cyanoacrylate fluids. Regulatory approvals include FDA, RoHS and REACH.

** Innovaprene tubing is a medical grade thermoplastic elastomer designed for peristaltic pump applications offering excellent chemical compatibility, durability and pump tube life. Due to its high specification grade, it can be used in industrial, food, medical, biological and pharmaceutical applications. Regulatory approvals include FDA, USP Class VI, cytotoxicity and ISO10993.

VPP50 VACUUM PICK-UP SYSTEM

The VPP50 vacuum pick-up system is designed for safely and efficiently picking up and placing delicate lightweight components with ease. Unlike conventional tweezers, the use of a rubber suction cup prevents possible accidental damage or contamination to the component during the lifting and positioning process.

Its simple, pneumatic-only control and easy-to-use finger actuated design allows the system to be used in workspace environments where electrical supply is unavailable or not permitted.



FEATURES

- Simple setup and operation
- Adjustable vacuum control
- Pneumatic-only system
- Manually finger-actuated
- Lightweight, ergonomic ESD safe pick-up pen included
- A vacuum tip selection kit is included to ensure compatibility with differing applications

BENEFITS

- Can be used in workspace environments where electrical supply is unavailable or not permitted
- Compliant for use in ESD safe environments
- A faster and more precise placement method than conventional tweezers
- Prevents damage and contamination to delicate components
- Stand included for safe storage of vacuum pick-up pen when not in use.

SPARE PART



Item Number	Description
580046-ESD	Pick-up pen w/hole (ESD safe)

SPECIFICATIONS

Dimensions (W x D x H):	(96 x 128 x 76 mm) 3.78 x 5.04 x 3.00"
Weight	0.38 kg (0.84 lb)
Air Input	100 psi (7 bar) max
Vacuum	Up to 400 mm-Hg (15.75 in-Hg)
Max Pick-up Weight	Up to 125 g (4.4 oz)
Standards	RoHS, ESD Safe

VPP500 VACUUM PICK-UP SYSTEM

The VPP500 vacuum pick-up system is designed for safely and efficiently picking up and placing delicate lightweight components with ease. Unlike conventional tweezers, the use of a rubber suction cup prevents possible accidental damage or contamination to the component during the lifting and positioning process.

Its foot pedal operated electro-pneumatic design minimizes air usage and eliminates the exhausted noise, which is emitted when not in use.



FEATURES

- Simple setup and operation
- Adjustable vacuum control
- Vacuum pressure readout
- Foot pedal controlled
- Lightweight ergonomic, ESD safe pick-up pen included
- A vacuum tip selection kit is included to ensure compatibility with differing applications

BENEFITS

- Compliant for use in ESD safe environments
- A faster and more precise placement method than conventional tweezers
- Prevents damage and contamination to delicate components
- Vacuum gauge allows the vacuum pressure to be precisely set and monitored
- Stand included for safe storage of vacuum pick-up pen when not in use.

SPARE PART



Item Number	Description
580046NH-ESD	Pick-up pen (ESD safe)

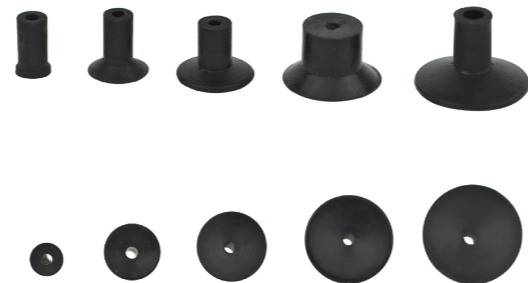
SPECIFICATIONS

Dimensions (W x D x H):	(96 x 128 x 76 mm) 3.78 x 5.04 x 3.00"
Weight:	0.38 kg (0.84 lb)
Output DC from Power Supply:	24V DC - 1.0 Amp
Air Input:	100 psi (7 bar) max
Vacuum:	Up to 400 mm-Hg (15.75 in-Hg)
Max Pick-up Weight:	Up to 125 g (4.4 oz)
Standards:	CE, RoHS, EMC, ESD Safe

VACUUM PICK-UP SUCTION CUPS

A selection of suction cups for use with vacuum pick-up systems.

Item Number	Size O.D. (inch/mm)	Compatible with
580047	0.12/3	580053 / 580056
580048	0.19/4.75	580053 / 580056
580049	0.26/6.5	580053 / 580056
580050	0.31/8	580053 / 580056
580051	0.39/10	580052 / 580055



VACUUM PICK-UP TIPS

A selection of tips pairable with suction cups for vacuum pick-up systems.

Item Number	Gauge	Style
580056	18 ga	0.5" Straight
580055	14 ga	0.5" Straight
580053	18 ga	1.5" 45 Degree
580052	14 ga	1.5" 45 Degree



VACUUM TIP SELECTION KIT

Vacuum tip selection kit contains one of each of the available suction cup and pick-up tip sizes for testing and validation purposes.

One vacuum tip selection kit is included with each VPP50 and VPP500 vacuum pick-up system.

Item Number

QK-VTK



OPTIONAL ACCESSORIES

Alternative vacuum pick-up pens for use with VPP50 and VPP500 systems in environments that do not need to be ESD safe.



Item Number

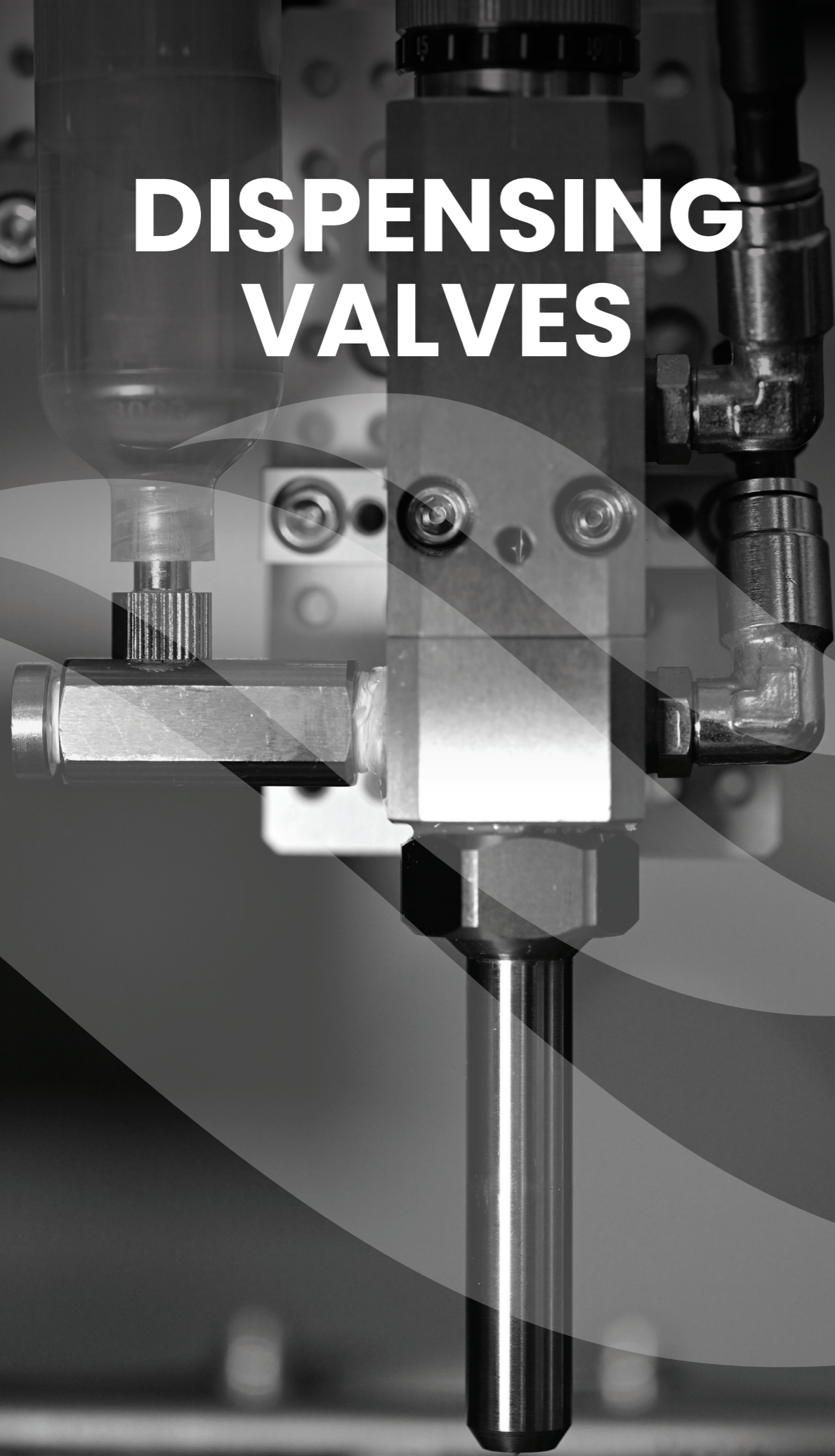
Description

580046 Pick-up pen w/hole (For VPP50)

580046NH Pick-up pen (For VPP500)



DISPENSING VALVES



DISPENSING VALVE SELECTION CHART

A wide selection of valves available for different fluid types and applications. Find your recommended valve by matching material type on the left with application type on the top.



Materials	Dots	Micro Dots	Beads/Lines	Potting/Filling	Spray
Acid/Solvent	VD520-SS, 710PT-U	VD520-SS, MV-0180SS	VD520-SS, 710PT-U	VD520-SS, 790HPSS-LF	SV1000SS SV2000N SV3000SS
Anaerobic	VD520-PT, 710PT-U	VD520-PT, 710PT-U	VD520-PT, 710PT-U	VD520-PT, 710PT-U	-
Cyanoacrylate	VD520-PT, 710PT-U	VD520-PT	VD520-PT, 710PT-U	VD520-PT, 710PT-U	-
1-Part Epoxy	VP300, 790HP-LF, RV400, VMS400	PDV-2000, RV400	VP300, 790HP-LF, RV400, VMS400	VP300, 790HP-LF, VMS400	-
2-Part Epoxy	710PT-U, RV400, PosiPump PC2	RV400, PosiPump PC2	710PT-U, RV400, PosiPump PC2	710PT-U, RV400, PosiPump PC2	-
Grease/Gel	PosiPump PC1, 790HP-LF, VMS400	PosiPump PC1, MV-0180LF	PosiPump PC1, 790HP-LF, VMS400	PosiPump PC1, 790HP-LF	-
Ink/Paint	PosiPump PC1, VD520-SS, VMP30H	PosiPump PC1, MV-0180LF	PosiPump PC1, VD520-SS, VMP30H	PosiPump PC1, VP300	SV1000SS SV2000N SV3000SS
Liquid Flux	PosiPump PC1, VD520-SS, 710PT-U	PosiPump PC1, MV-0180SS	PosiPump PC1, VD520-SS, 710PT-U	PosiPump PC1, VMS400	SV1000SS SV2000N SV3000SS
Lubricant/Oil	PosiPump PC1, VD520-SS	PosiPump PC1, MV-0180LF	PosiPump PC1, VD520-SS, MV-0180LF	VP300, 790HP-LF	SV1000SS SV2000N SV3000SS
Paste	VP300, 790HP-LF, PDV-2000, RV400	PDV-2000, RV400	VP300, 790HP-LF, PDV-2000, RV400	VP300, 790HP-LF	-
Reagent	VD520-SS, MV-0180SS	VD520-SS, MV-0180SS	VD520-SS, MV-0180SS	VD520-SS, 790HP-LF	-
RTV/Sealant	PosiPump PC1, VP300, 790HP-LF	PosiPump PC1, VMS400	PosiPump PC1, VP300, 790HP-LF	PosiPump PC1, VP300, 790HP-LF	-
Abrasive Filled Material	VTS4000	RV400-SS, RV400	RV400-SS, VTS4000, RV400	VTS4000	-
Solder Mask	PosiPump PC1, CV629, VMS400	PosiPump PC1, MV-0180LF	PosiPump PC1, CV629, VMS400	PosiPump PC1, CV629, VP300	-
Solder Paste	RV400-SS, PDV-2000, RV400	RV400-SS, PDV-2000, RV400	RV400-SS, PDV-2000, RV400	-	-
UV Adhesive	VD520-SS	VD520-SS, MV-0180SS	VD520-SS, VMS400	VD520-SS, 790HPSS-LF	SV1000SS SV2000N SV3000SS

* Please consult with your local Fisnar sales representative to validate compatibility.

VALVE & CONTROLLER COMPATIBILITY CHART

Find which valve style works with which controller using the chart below.

Valves	VC300	VC400	VC500	PC200 MAX	PZ-CON
790HP-LF	•				
790HPSS-LF	•				
VD520-PT	•				
VD520-SS	•				
MV-0180LF	•				
MV-0180SS	•				
CV629	•				
SV1000SS		•			
SV2000N		•			
SV3000SS		•			
710PT-U	•				
RV400			•		
PDV-2000			•		
VMS400	•				
VMP30H	•				
VP300	•				
VDP150	•				
VTS4000	•				
PosiPump PC1				•	
PosiPump PC2				•	
Pz1200 Series					•

710PT-U PINCH TUBE VALVE

Engineered for precise control of low to medium viscosity liquids. The easy-to-use stroke control adjustment knob ensures accurate and repeatable dispense volumes. The disposable pinch tube design allows for quick and easy servicing of the valve. Piston on/off actuation causes the pinch tube to open or close allowing material to flow through the valve.

The shot size or flow rate is determined by the degree of adjustment in releasing the closed (pinched) tube and by the valve control timer.



Item Number	Description
710PT-U	Pinch Tube Valve

SPECIFICATIONS

Operating Air Pressure	60 - 75 psi
Material Delivery Pressure	100 psi max

Valve Construction

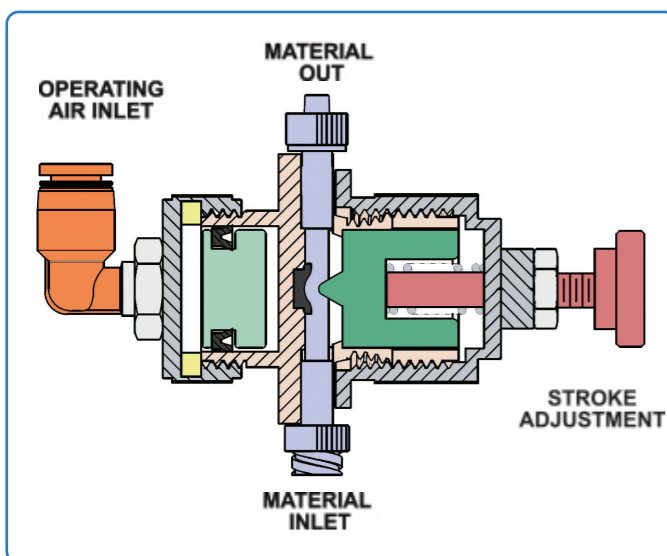
Valve Body	Nylon
Valve Shut-Off Piston	Acetal
Valve Piston	Aluminum
Valve Cylinder Cap	Aluminum
Valve Flange Cap	Aluminum
Valve Stroke Adjustment Knob	Coated Steel
Valve Seals	NBR
Wetted Part Materials	Polyethylene

Connecting Ports

Operating Air	1/4" Push Connector
Material Inlet	Luer Lock
Material Outlet	Luer Lock
Mounting Hole Detail	1/4"-20 UNC
Weight	114 g (0.25 lb)

FEATURES

- Disposable pinch tube and fluid lines
- Suitable for low to medium viscosity fluids
- Ideal for long pot life 2-component adhesives and cyanoacrylates
- Easy-to-use and maintain



Accessories & Spare Parts (Sold Separately)

Item Number	Description
562054U	Valve Stand
710PTU-RK	Valve Repair Kit

*710PT-U valve is supplied with rod for mounting to valve stand.

PINCH TUBES



Item Number	Description	Material	Included with 710PT-U
580038A	Pinch Tube I.D. 0.07" (1.778 mm) - Natural	LDPE	•
580038A-BLK	Pinch Tube I.D. 0.07" (1.778 mm) - Black	LDPE	
580037A	Pinch Tube I.D. 0.10" (2.54 mm) - Natural	LDPE	•
580037A-BLK	Pinch Tube I.D. 0.10" (2.54 mm) - Black	LDPE	•
580039A	Pinch Tube I.D. 0.125" (3.175 mm) - Clear	PU	
580039A-BLK	Pinch Tube I.D. 0.125" (3.175 mm) - Black	PU	

FLUID LINES



Item Number	Description	Material	Included with 710PT-U
580047A-07-24	Fluid Line I.D. 0.07" (1.778 mm) x 24" - Natural	LDPE	
580047A-10-18	Fluid Line I.D. 0.10" (2.54 mm) x 18" - Natural	LDPE	
580047A-10-24	Fluid Line I.D. 0.10" (2.54 mm) x 24" - Natural	LDPE	•
580047A-10-36	Fluid Line I.D. 0.10" (2.54 mm) x 36" - Natural	LDPE	
580047A-BLK-07-24	Fluid Line I.D. 0.07" (1.778 mm) x 24" - Black	LDPE	
580047A-BLK-10-24	Fluid Line I.D. 0.10" (2.54 mm) x 24" - Black	LDPE	•
580047A-BLK-10-36	Fluid Line I.D. 0.10" (2.54 mm) x 36" - Black	LDPE	

ACCESSORIES

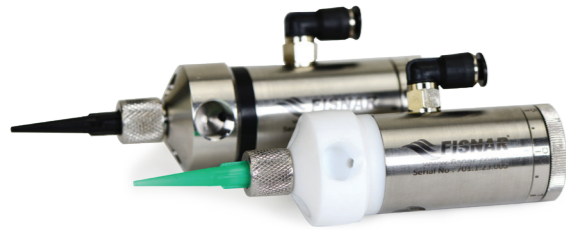


Item Number	Description	Material	Included with 710PT-U
5801449	Male Luer Lock Adapter - Black	PP	•
5801450	Male Luer Lock Adapter - White	PP	•
5801451	Female Luer Lock Adapter - Black	PP	
5801454	Female Luer Lock Coupling - Natural	PP	

VD520 DIAPHRAGM VALVES

The VD520 series of diaphragm valves are designed for accurately controlling the dispensing of low to medium viscosity materials. Fluid flow rate is precisely controlled through the valve and fine-tuned using the stroke adjustment knob.

The inert diaphragm separates the wetted parts from the moving parts, ideal for dispensing cyanoacrylates, anaerobics, reagents, paints, UV adhesives, and other volatile substances.



Item Number	Description
VD520-SS	Diaphragm Valve - SS Fluid Body
VD520-PT	Diaphragm Valve - PTFE Fluid Body

FEATURES

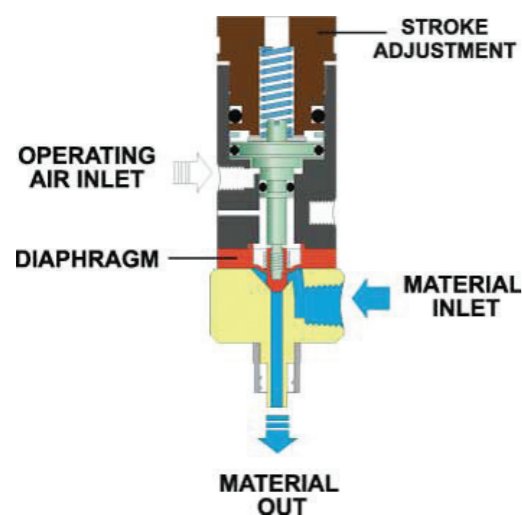
- Stroke adjustment for precise flow control
- Separated wetted parts
- Low maintenance, easy-to-clean design
- Durable, compact size and lightweight
- VD520-PT diaphragm valve suitable for cyanoacrylate and anaerobic adhesives
- VD520-SS diaphragm valve suitable for UV cure adhesives and lubricating oils
- Fast and clean positive shutoff eliminates dripping
- Unrestricted material flow path reduces turbulence and micro-bubbles

SPECIFICATIONS

Item Number	VD520-PT	VD520-SS
Operating Air Pressure	70 - 100 psi (4.8 - 6.9 Bar)	
Cycle Rate	Up to 500 cycles / min	
Max. Fluid Pressure	70 psi (4.8 Bar)	
Max. Flow Rate (H₂O @ 70 psi)	60 ml/sec	
Valve Body Material	SUS303	
Diaphragm Material	PTFE	UHMW-PE
Fluid Body Material	PTFE	SUS303
Tip Retaining Nut Material	SUS303	
Air Input Thread	M5 x 0.8	
Fluid Inlet Thread	1/8" NPT	
Mounting Hole	M5 x 0.8	
Weight	167 g (0.37 lb)	207 g (0.46 lb)

Accessories (sold separately)

Item Number	Description
VD520SS-RK	Valve Repair Kit SS
VD520PT-RK	Valve Repair Kit PT
562043U	Valve Stand



MV-0180 MICRO-SHOT NEEDLE VALVES

Designed for precision dispensing of low viscosity fluids from micro-shots to moderate-sized beads and dots. Its lightweight, pencil-type grip makes the valve suitable for either handheld or automated applications.

Shot size and flow rate are controlled by the tip size, fluid pressure, and the duration that the valve is open.

FEATURES

- Stainless steel version available for volatile and corrosive materials
- Stroke adjustment to fine tune shot size
- Positive shut-off
- Micro-shot deposits



Item Number	Description
MV-0180LF	Needle Valve - Aluminum
MV-0180SS	Needle Valve - Stainless Steel

SPECIFICATIONS

Operating Air Pressure	70 - 100 psi
Material Delivery Pressure	120 psi max

Valve Construction

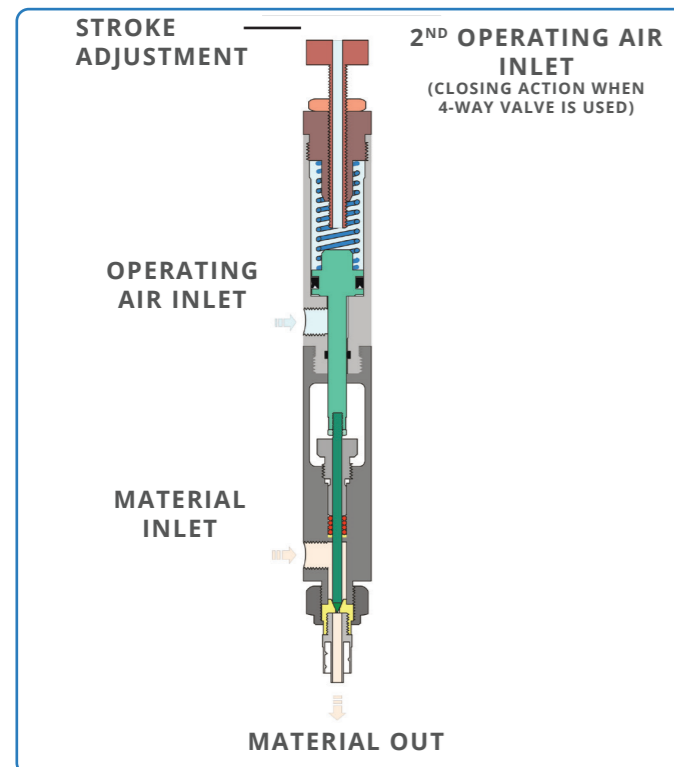
Valve Body	Aluminum/SS
Valve Piston	Aluminum
Valve Piston Seal	PTFE
Wetted Part Materials	Aluminum/SS

Connecting Ports

Air Input	1/8" NPT
Material Inlet	1/8" NPT
Material Outlet	Luer Lock
Mounting Hole Detail	N/A
Weight (MV-0180LF)	173 g (0.38 lb)
Weight (MV-0180SS)	270 g (0.6 lb)

Accessories & Spare Parts (sold separately)

Item Number	Description
MV0180LF-RK	Valve Repair Kit
MV0180SS-RK	Valve Repair Kit SS
560536U	Valve Stand



CV629 CARTRIDGE VALVE

The CV629 is a pneumatically-operated valve designed for precision dispensing of low to medium viscosity materials, such as solvents, oils, silicones, UV adhesives, inks, and more.

A simple design with accurate delivery.



Item Number	Description
CV629	Cartridge Valve

FEATURES

- Stroke adjustment to fine tune shot size
- Replaceable cartridge
- Micro-shot deposits
- High flow rate

SPECIFICATIONS

Operating Air Pressure	70 - 100 psi
Material Delivery Pressure	300 psi max

Valve Construction

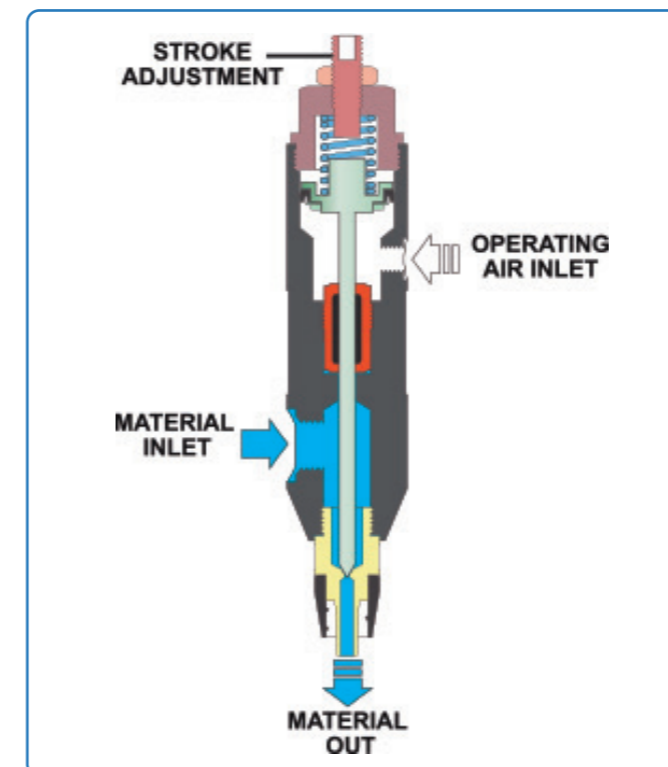
Valve Body	Aluminum
Valve Needle	SS

Connecting Ports

Operating Air Input	M5 thread with push-in fitting for O6 O.D. tube
Material Inlet	1/8" BSPP with push in fitting for O6 O.D. tube
Material Outlet	Luer Lock
Weight	135 g (0.3 lb)

Accessories & Spare Parts (sold separately)

Item Number	Description
562166U	Valve Stand



SV1000SS STAINLESS STEEL SPRAY VALVE

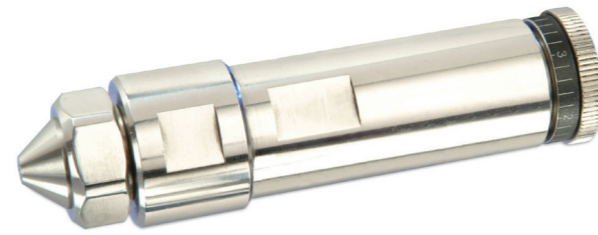
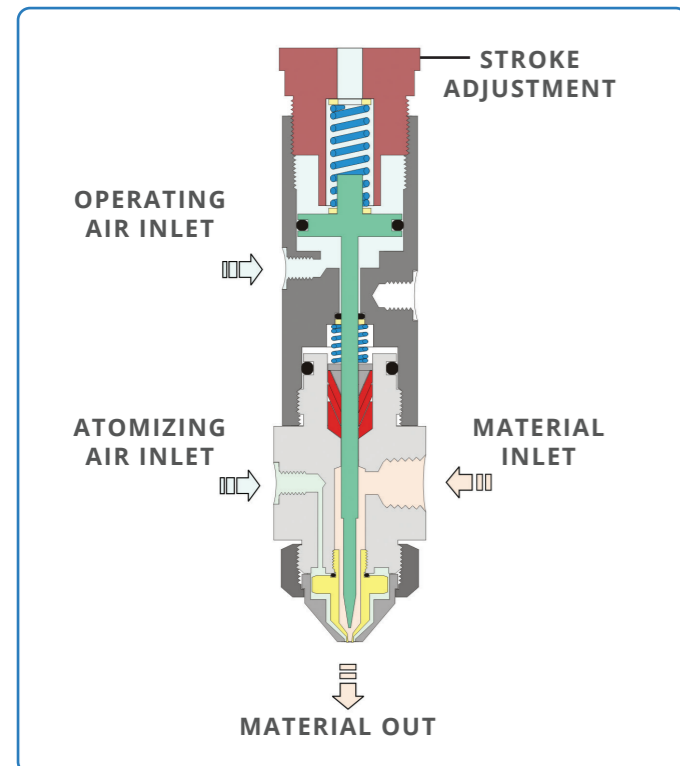
The SV1000SS spray valve provides close tolerance spraying of fluids up to 1,000 cps. Its stainless steel construction can prevent corrosion from volatile materials. Designed specifically for spraying flux, paint, oils, lubricants, coatings, and markings.

The flow rate is controlled by turning the stroke-adjust at the top of the valve in order to set the spray volume. Coating area and flow rate are controlled by the fluid pressure, needle stroke, distance from the valve to the component, and the duration the valve is open.

This spray valve is used in conjunction with the VC400 controller.

FEATURES

- Stroke-adjust control
- Tunable spray pattern
- Adjustable coating and flow rate



Item Number	Description
SV1000SS	Spray Valve

SPECIFICATIONS

Operating Air Pressure	70 - 100 psi
Atomizing Air Pressure	1 - 30 psi max
Fluid Viscosity Range	Up to 1,000 cps

Valve Construction

Valve Body/Piston	SS
Valve Seals	PTFE
Fluid Pressure	1 - 100 psi
Nozzle Diameter	0.028"

Operating Frequency	Up to 200 cycles/min
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Connecting Ports

Operating/Atomizing Air Inlet	10 - 32
Material Inlet	1/8" NPT
Weight	344 g (13.5 lb)

Accessories & Spare Parts (sold separately)

Item Number	Description
SV1000SS-RK	Valve Repair Kit
562054U	Valve Stand

SV1000SS spray valve is supplied with rod for mounting to valve stand.

SV2000N ADJUSTABLE SPRAY VALVES

The SV2000N is a no-clog spray valve optimized for low-viscosity materials under 1,000 cps. Materials are typically input from a pressure reservoir.

Each valve is actuated by air pressure sequenced by a controller. The operating air pressure opens a needle valve allowing material to flow, while a separate airline creates pressure in the cap, atomizing the fluid.

Valve selection based on required spray area. Used in conjunction with the VC400 controller.



Item Number	Description
SV2001N	Spray Valve Fine Dot & Bead
SV2002N	Spray Valve Medium Bead
SV2003N	Spray Valve Fan Pattern

SPECIFICATIONS

Operating Air Pressure	70 - 100 psi
Atomizing Air Pressure	1 - 30 psi max
Fluid Viscosity Range	Up to 1,000 cps

Valve Construction

Valve Body/Piston	SS
Valve Needle	SS
Valve Diaphragm	UHMW-PE
Valve Seat	PEEK
Fluid Pressure	1 - 100 psi

Operating Frequency	Up to 400 cycles/min
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Spray Angle	SV2001N: 20° SV2002N: 30° SV2003N: 37°
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Connecting Ports

Operating/Atomizing Air Inlet	10 - 32
Material Inlet	1/8" NPT
Weight	236 g (0.5 lb)

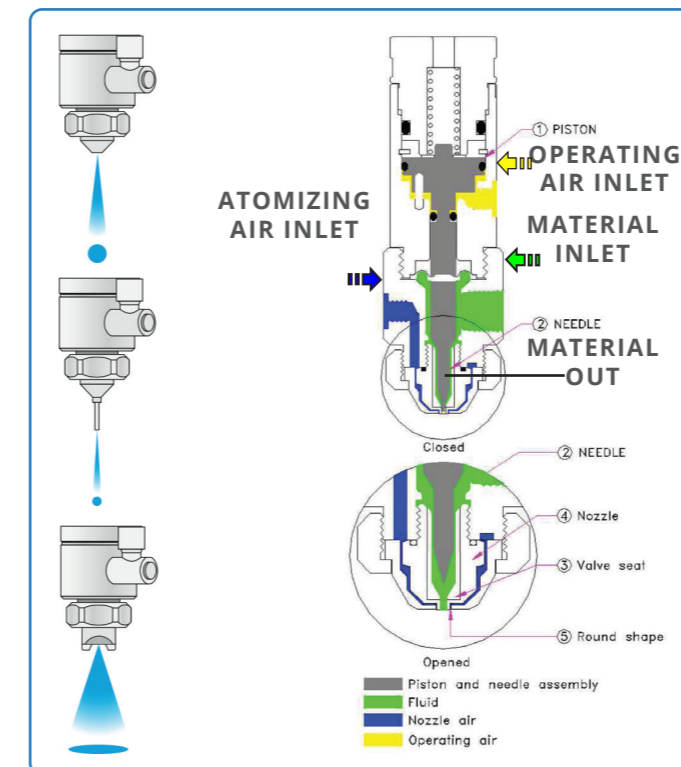
Accessories & Spare Parts (sold separately)

Item Number	Description
SV2000N-RK	Valve Repair Kit
562054U	Valve Stand

SV2000N spray valve is supplied with rod for mounting to valve stand.

FEATURES

- Stroke-adjust control
- Tunable spray pattern
- Adjustable coating and flow rate



SV3000SS-EN EXTENDED NOZZLE SPRAY VALVE

The SV3000SS-EN is a conical spray valve optimized for conformal coatings. Its extended nozzle design allows it to easily navigate around components on the workpiece that do not require coating.

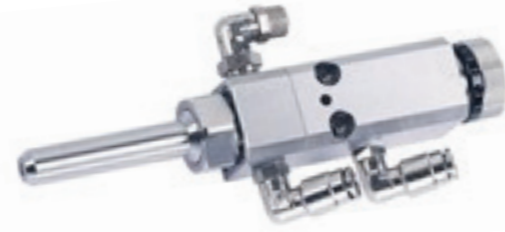
The circular pattern nozzle can apply a repeatable, concentrated, and fine coating with approximately 0.15"-0.5" thickness. Its low pressure, low volume atomization process allows excellent edge definition control that can be precisely adjusted using the stroke control flow knob.

Its all stainless steel design ensures long service life and chemical compatibility with all commercially available conformal coating materials.

This spray valve is used in conjunction with the VC400 controller.

FEATURES

- Adjustable flow rate and spray width
- Divorced valve design prevents contamination of the air section
- Wide viscosity range (1 – 20,000 cps)



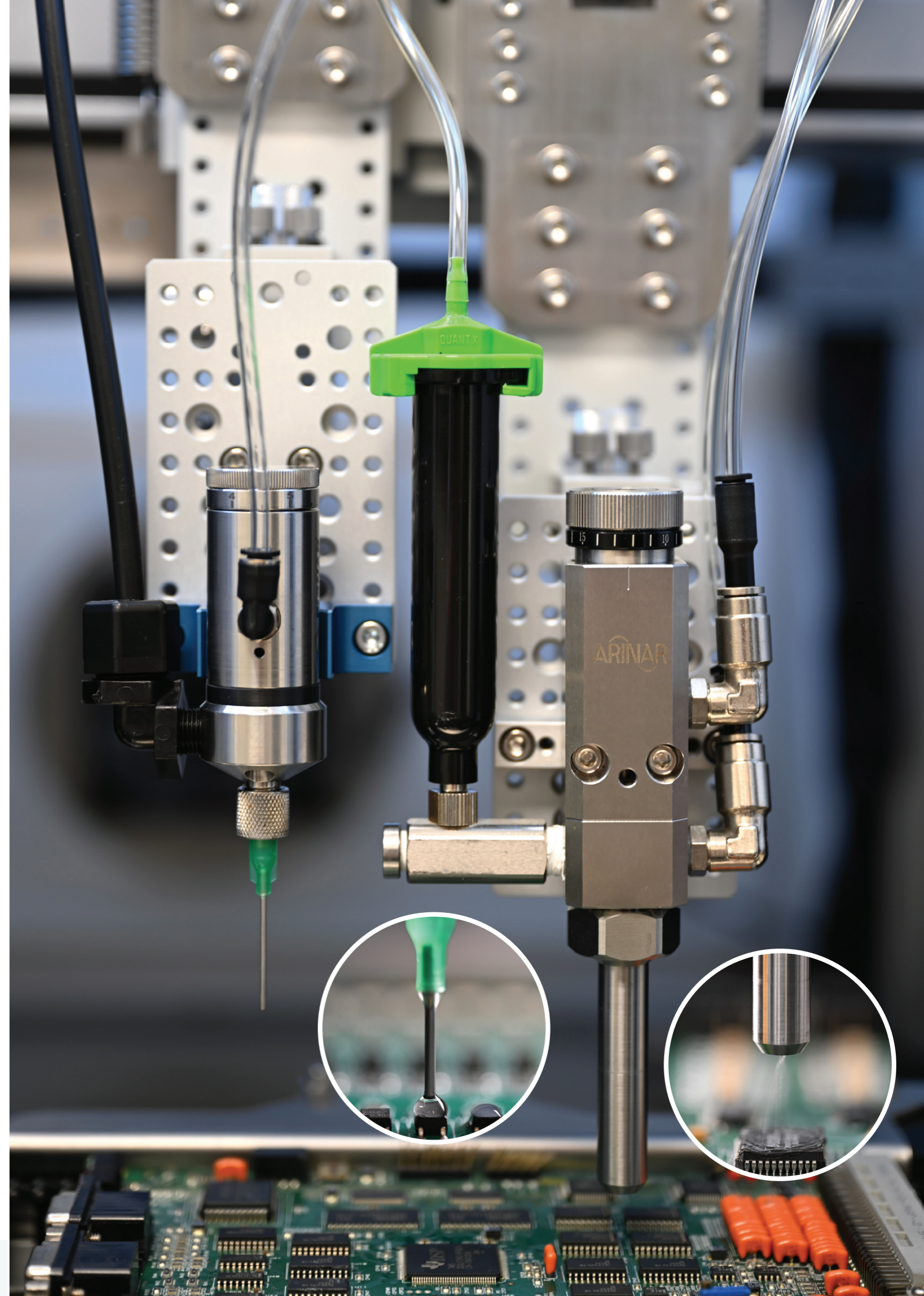
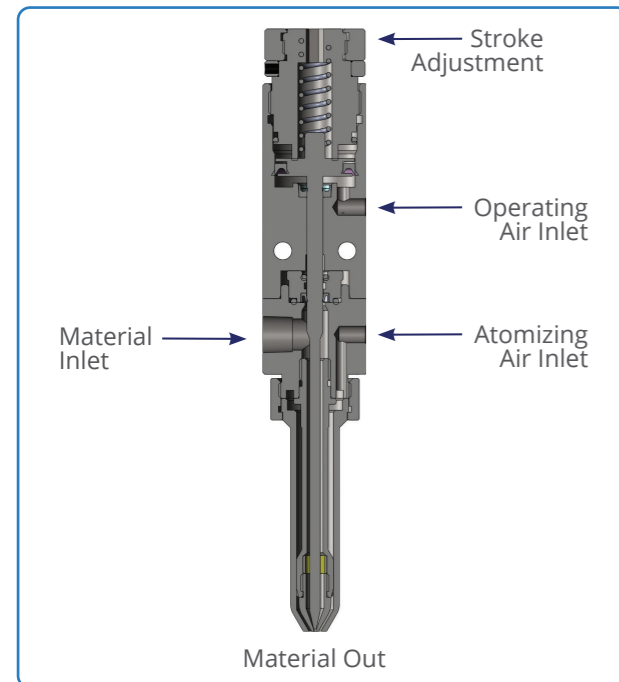
Item Number	Description
SV3000SS-EN	Spray Valve - Extended Nozzle

SPECIFICATIONS

Operating Air Pressure	70 - 100 psi
Atomizing Air Pressure	1 - 30 psi max
Fluid Viscosity Range	Up to 1,000 cps
Valve Construction	
Valve Body/Piston	SS
Valve Seals	UHMW-PE
Fluid Pressure	1 - 100 psi
Nozzle Diameter	0.028"
Operating Frequency	Up to 200 cycles/min
Connecting Ports	
Operating/Atomizing Air Inlet	6 mm
Material Inlet	R1/8"
Weight	420 g (0.92 lb)

Accessories & Spare Parts (sold separately)

Item Number	Description
SV3000SSEN-RK	Valve Repair Kit



VMP30H MINI POPPET VALVE

The VMP30H is a pneumatic, mini poppet valve designed for dispensing small shots of medium viscosity materials. Its lightweight and compact design is beneficial for installation in confined work areas.

The poppet design minimizes surface area and friction between the valve piston and the material, making it ideal for filled materials and extending the life of the valve seals.



Item Number	Description
VMP30H	Mini-Poppet Valve

SPECIFICATIONS

Operating Air Pressure	70 - 100 psi
Material Delivery Pressure	85 psi max
Flow Rate	MAX 1.2 L/min

Valve Construction

Valve Body	Aluminum
Valve Piston	SUS303
Valve Piston Seal	NBR

Wetted Part Materials

Chamber, Cap	SUS303
Diaphragm, Seal	UHMW-PE
O-ring	Viton®

Connecting Ports

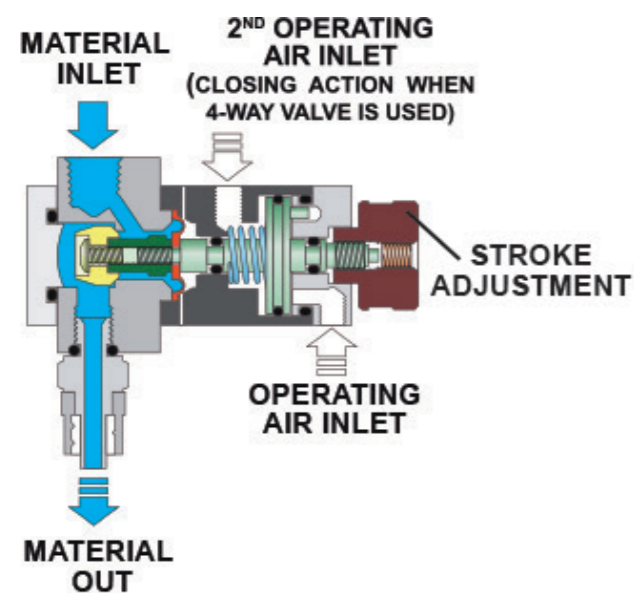
Air Input	M5 x 0.8
Material Inlet	1/8" NPT
Material Outlet	Luer Lock
Weight	162 g (0.36 lb)

Accessories & Spare Parts (sold separately)

Item Number	Description
VMP30H-RK	Valve Repair Kit
562235U	Valve Stand

FEATURES

- Suck-back effect to eliminate drooling at the end of the needle tip
- Suitable for filled materials
- Separated wetted parts
- Stroke adjustment feature for fine tuning shot size



VP300 POPPET VALVE

The VP300 is a multi-purpose, poppet-style, pneumatic valve designed for dispensing medium to high viscosity liquids such as silicone, epoxy, grease, solder paste, and other filled materials.

Its piston design maximizes fluid flow rate while its sealing mechanism enhances valve durability.



Item Number	Description
VP300	Poppet Valve

SPECIFICATIONS

Operating Air Pressure	70 - 100 psi
Material Delivery Pressure	85 psi max

Valve Construction

Valve Body	Aluminum
Valve Piston	SUS303
Valve Piston Seal	NBR

Wetted Part Materials

Chamber, Cap	Aluminum
Diaphragm, Seal	UHMW-PE
O-ring	Viton®

Connecting Ports

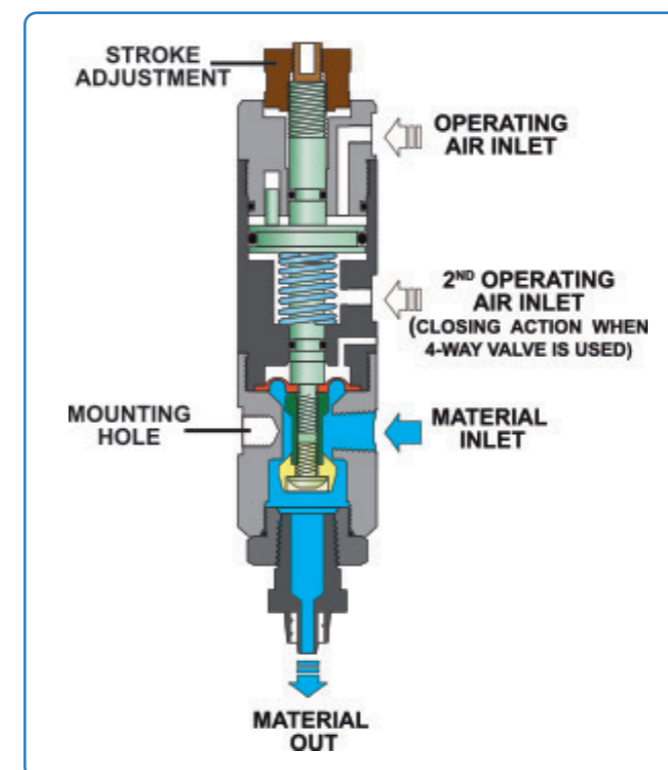
Air Inlet	M5 x 0.8
Material Inlet	1/8" NPT
Material Outlet	1/4" NPT
Mounting Hole	M5 x 0.8
Weight	180 g (0.4 lb)

Accessories & Spare Parts (sold separately)

Item Number	Description
VP300-RK	Valve Repair Kit
562043U	Valve Stand

FEATURES

- Suck-back effect to prevent drooling at the end of the needle tip
- Suitable for filled materials
- Separated wetted parts
- Stroke adjustment to fine tune shot size



VMS400 MINI SPOOL VALVE

The VMS400 is a mini spool valve designed for dispensing small volumes of medium to high viscosity materials. When air pressure is applied to the air inlet of the valve, the spool will be forced forward and fluid will be dispensed.

Shot size and flow rate are controlled by the tip size, fluid pressure, and the duration that the valve is open.



Item Number	Description
VMS400	Mini Spool Valve

SPECIFICATIONS

Operating Air Pressure	70 - 100 psi
Material Input Pressure	725 psi max

Valve Construction

Valve Body, Piston	SUS303
Valve Spool	SUS420
Valve Cap	Aluminum

Wetted Part Materials

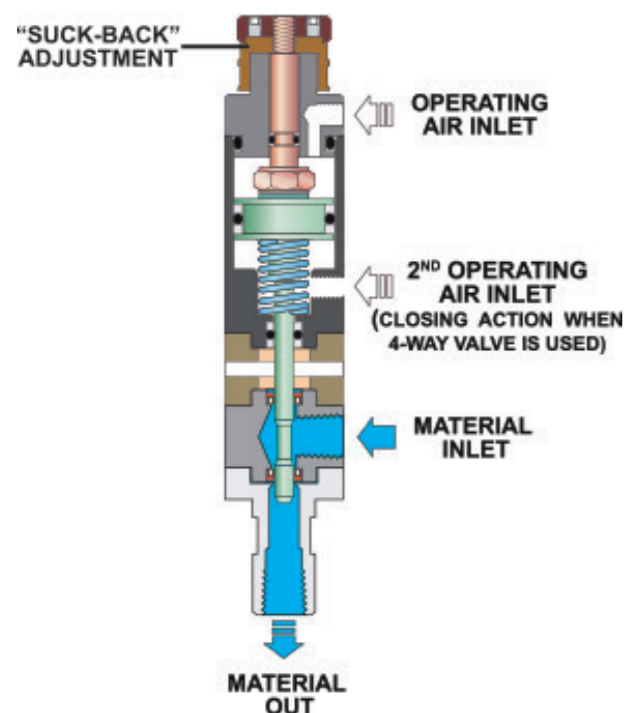
Valve Chamber, Cap	SUS303
Valve Seal	UHMW-PE Lip Seal

Connecting Ports

Air Inlet	M5 x 0.8
Material Inlet	1/8" NPT
Material Outlet	Luer Lock
Weight	255 g (0.56 lb)

Accessories & Spare Parts (sold separately)

Item Number	Description
VMS400-RK	Valve Repair Kit
562235U	Valve Stand



790HP-LF HIGH-PRESSURE SPOOL VALVES

The 790HP-LF high-pressure spool valve offers an effective solution for dispensing high viscosity materials such as silicones, sealants, and greases.

A spring snap-back retraction closes the valve resulting in a suck-back at the fluid outlet to prevent dripping.



Item Number	Description
790HP-LF	Aluminum High Pressure Valve
790HPSS-LF	Stainless Steel High Pressure Valve

SPECIFICATIONS

Operating Air Pressure	70 - 100 psi
Material Input Pressure	2,500 psi max

Valve Construction

Valve Body	Aluminum/SS
Valve Piston	Aluminum
Valve Spool	SS (TiCN coated)
Valve Seals	UHMW PE
Valve O-ring	Viton®

Connecting Ports

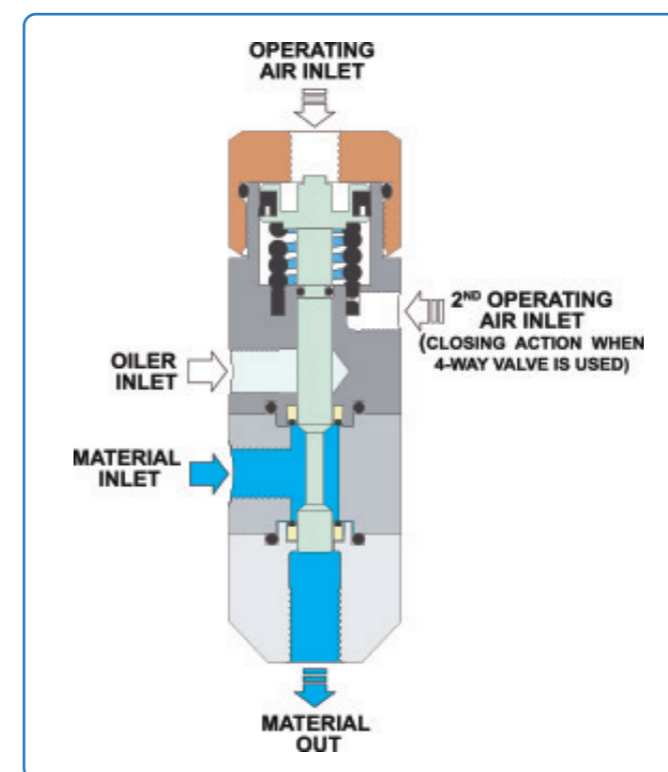
Air Input	1/4" NPT
Material Inlet	1/4" NPT
Material Outlet	1/4" NPT
Weight (790HP-LF)	524 g (1.16 lb)
Weight (790HP-SS)	744 g (1.64 lb)

Accessories & Spare Parts (sold separately)

Item Number	Description
790HP-RK	Valve Repair Kit without Spool
790HP-RKS	Valve Repair Kit with Spool
560671U	Valve Stand
560565DC	For use with DC50/DC50 MAX/DC100 MAX/VC300

FEATURES

- High-pressure fluid input up to 2,500 psi
- Suitable for high viscosity fluids
- SS version available for volatile and corrosive materials
- Easy to clean and maintain
- Extra pneumatic air-port for use with 4-way valve controller for rapid valve closure

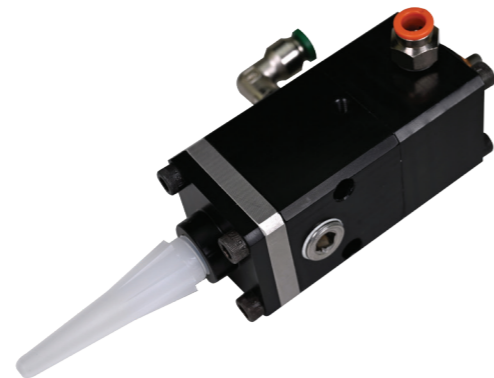


560565DC pistol grip hand assembly
*790HP valve sold separately

VTS4000 HIGH PRESSURE TIP SEAL VALVE

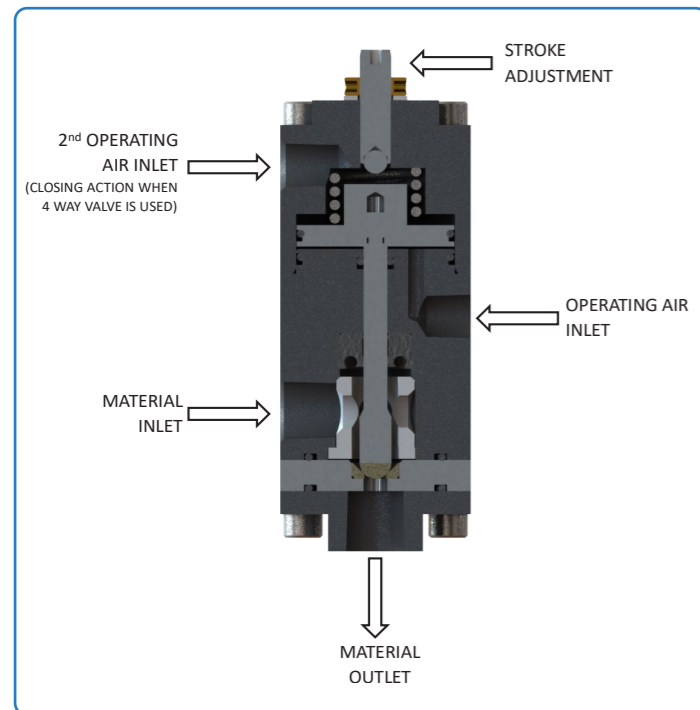
The VTS4000 high-pressure tip seal valve ensures long lasting durability and performance when dispensing heavily abrasive and filled materials (e.g. thermal interface materials) due to its tungsten carbide ball and seat design.

Dual pneumatic operation with spring-assisted closure guarantees immediate valve opening and closing action to ensure consistent dispensing with no drool.



FEATURES

- Tungsten carbide ball and seat sealing design
- Hard wearing chemical resistant seals
- Unrestricted material flow through valve
- Stroke adjustment to fine tune shot size
- Compact and easy to service design



Accessories & Spare Parts (sold separately)

Item Number	Description
VTS4000-RK	Valve Repair Kit
VTS4000-RKS	Valve Repair Kit with Spool

Item Number	Description
VTS4000	High Pressure Tip Seal Valve

SPECIFICATIONS

Operating Air Pressure	70 - 100 psi
Material Input Pressure	4,000 psi max
Valve Construction	
Valve Body	Aluminum
Valve Piston	Stainless Steel
Valve Shaft	Stainless Steel / Tungsten Carbide
Valve Seat	Stainless Steel / Tungsten Carbide
Valve Seal	FFKM
Valve O-ring	TFE/P
Connecting Ports	
Operating Air Open	1/8" NPT
Operating Air Close	1/8" NPT
Material Inlet	1/4" NPT
Material Outlet	1/4" NPT
Weight	524 g (1.16 lb)

VDP150 POSITIVE DISPLACEMENT VALVE

The VDP150 is a pneumatically-operated positive displacement valve designed for dispensing constant volume shots up to 0.15 cc of low to medium viscosity materials.

Featuring two integral check valves to control the flow of material, the valve is cycled by applying air pressure to the air ports. No fluid pressure is required for low-viscosity materials (less than 5,000 cps) as the material is drawn into the displacement chamber by the plunger.



Item Number	Description
VDP150	Positive Displacement Valve

FEATURES

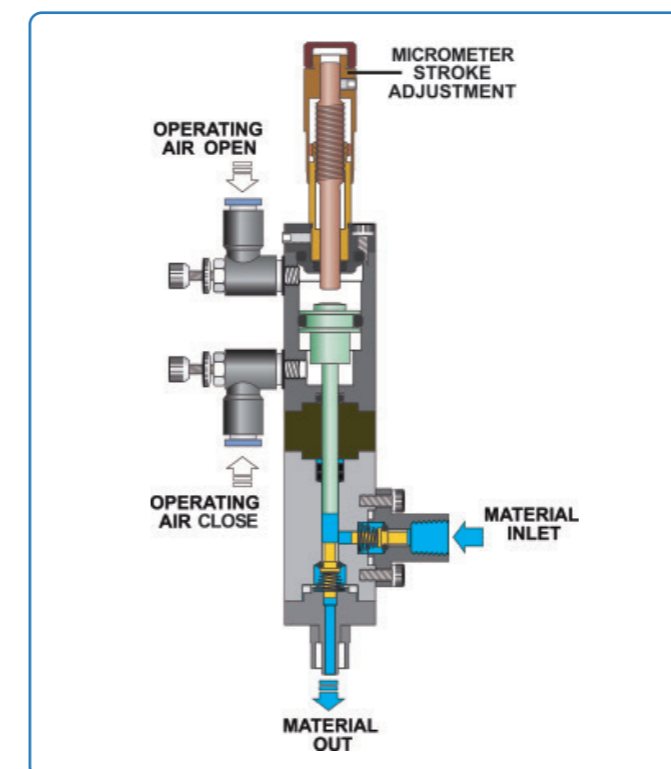
- Positive displacement metering
- Integral inlet and outlet check valves
- Stroke adjustment to fine tune shot size

SPECIFICATIONS

Operating Air Pressure	70 - 100 psi
Maximum Shot Size	0.15 cc/cycle
Valve Construction	
Valve Cylinder Body	Aluminum
Valve Piston	SUS303
Valve Check Body	SUS303, RULON
Wetted Part Materials	
Valve Chamber, Cap & CV Body	SUS303
Valve Plunger	SUS420 (tin coating)
Check Valve	PEEK
Check Valve O-rings	FFKM
Connecting Ports	
Air Input	M5X0.8
Material Inlet	1/8" NPT
Material Outlet	Luer Lock
Weight	323 g (0.7 lb)

Accessories & Spare Parts (sold separately)

Item Number	Description
VDP150-RK	Valve Repair Kit
562235U	Valve Stand



RV400 DISPOSABLE PATH AUGER VALVES

The RV400 precision auger valve is suitable for dispensing high viscosity epoxies, silicones, greases, solder pastes, and other filled materials. Its design allows the fluid material path to be quickly removed and replaced in seconds, minimizing production downtime. Regularly replacing the auger helps maintain dispense repeatability and increases the life of the valve.

The acetal auger screw and housing are suitable for 2-component and pre-mixed frozen fluid materials, while the stainless steel auger screw and housing are suitable for highly abrasive filled materials (e.g. solder paste, thermal interface materials, etc.)

Compatible for use with the VC500 auger valve controller.

Comes standard with 3, 5, and 10 cc bushings.

FEATURES

- Suitable for use with heavily filled and abrasive materials or two component fluid materials
- Micro-shots less than 0.5 mm
- Motor reverse capability for eliminating fluid drool from the dispense tip
- Minimal dead space and high repeatability
- Quick change fluid material path

Spare Parts

Item Number	Description
RV400-AKP-6P	6 Pitch Auger Screw & Housing
RV400-AKP-8P	8 Pitch Auger Screw & Housing
RV400-AKP-16P	16 Pitch Auger Screw & Housing
RV400-AS-4P	4 Pitch Auger Screw - SS
RV400-AS-8P	8 Pitch Auger Screw - SS
RV400-AS-16P	16 Pitch Auger Screw - SS
RV400-AH	Auger Screw Housing - SS

Accessories & Spare Parts (sold separately)

Item Number	Description
562318U	Valve Stand
RV400-LS	Low Level Sensor



Item Number	Description
RV400	6, 8 & 16 Pitch Auger Valve - Acetal Auger Screw
RV400SS-4P	4 Pitch Auger Valve - Stainless Steel Auger Screw & Housing
RV400SS-8P	8 Pitch Auger Valve - Stainless Steel Auger Screw & Housing
RV400SS-16P	16 Pitch Auger Valve - Stainless Steel Auger Screw & Housing

SPECIFICATIONS

Motor Voltage	24V DC
Motor	6 watt, 400 rpm (no load)
Valve Construction	Aluminum
Max Fluid Input Pressure	30 psi
Minimum Fluid Viscosity	35,000 cps
Material Inlet	Female Luer Lock
Material Outlet	Male Luer Lock
Weight	240 g (0.75 lb)

PDV-2000 AUGER VALVES

The PDV-2000 precision auger valve is suitable for medium to high viscosity epoxies, solder pastes, and other filled materials. Capable of dispensing micro shots less than 1mm using an auger servo motor driven screw.

The PDV-2000 has minimal dead space within the valve to deliver accurate and repeatable dots and beads for any application, whether automated or manually operated.

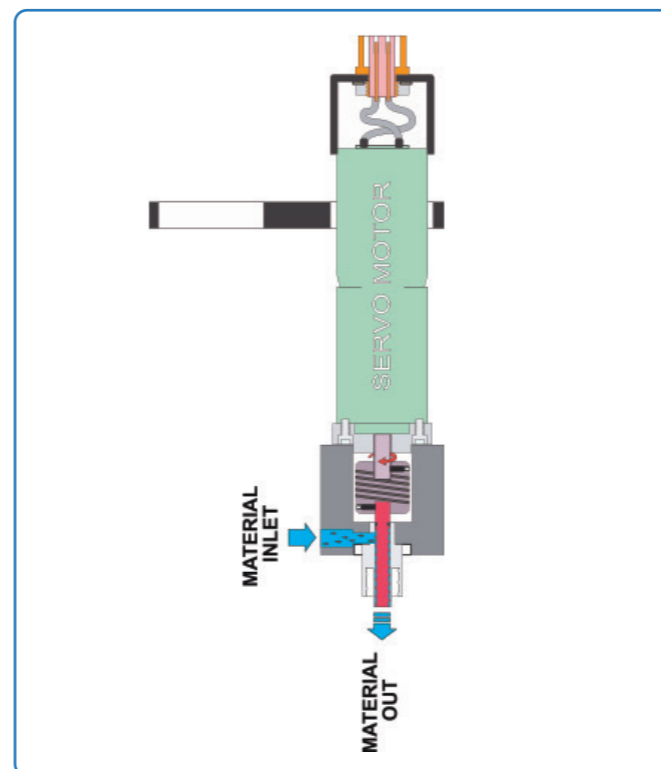
Compatible for use with the VC500 auger valve controller.

Comes standard with 3, 5, and 10 cc bushings.



FEATURES

- Ideal for heavily filled and abrasive materials
- Micro-shots less than 1 mm
- Flexible coupling from motor to screw
- Minimal dead space and high repeatability
- Disposable fluid feed tube



Item Number	Description
PDV-2000-8P	8 Pitch Auger Valve (3, 5, 10, 30/55 cc)
PDV-2000-16P	16 Pitch Auger Valve (3, 5, 10, 30/55 cc)
PDV-2000-32P	32 Pitch Auger Valve (3, 5, 10, 30/55 cc)

SPECIFICATIONS

Motor Voltage	24V DC
Motor	6 watt, 400 rpm (no load)
Valve Construction	SS
Valve Body	Aluminum
Valve Auger	SS
Valve Syringe Bracket	Aluminum
Minimum Material Viscosity	35,000 cps
Weight	212 g (0.5 lb)

Accessories & Spare Parts (sold separately)

Item Number	Description
561446B	Fluid Line Assembly
562235U	Valve Stand

POSIPUMP™ PC1 PROGRESSIVE CAVITY VALVES

The PosiPump PC1 progressive cavity valve offers true volumetric dispensing to achieve exceptional levels of repeatability.

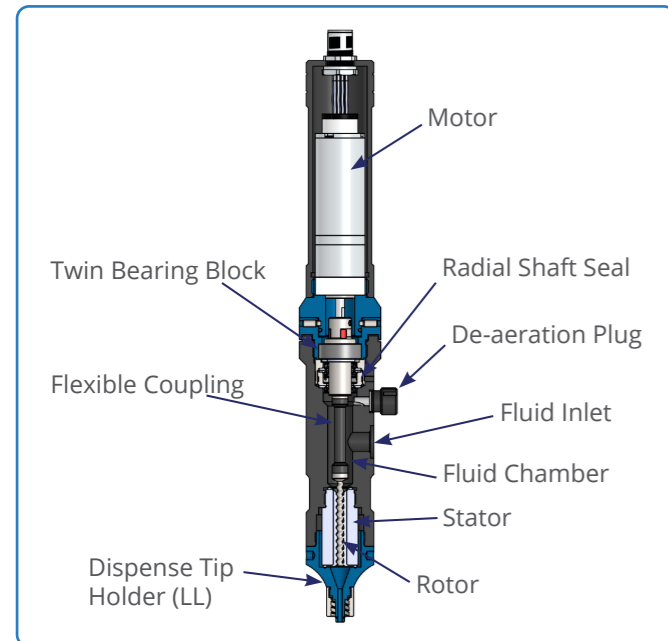
A proven endless piston design principle ensures a constant volume is always dispensed, regardless of any changes in fluid viscosity, thixotropy, or fluid inlet pressure.

Bi-rotational control ensures a drip free dispense cycle thanks to an infinitely adjustable suckback.

FEATURES

- Dispense volume as small as 0.005 ml per revolution
- Constant volumetric and pressure-stable dispense system
- Low pulsation and shear
- High dispense accuracy and repeatability
- FFKM stator material
- Long service life

SECTION VIEW



Accessories & Spare Parts (sold separately)

Item Number	Description
562361U	PosiPump PC1 Valve Stand



Connecting cable (PC1-CABLE (32 ft) or PC1-CABLE-16 (16 ft)) required for operation. Sold separately.

Item Number	Description
PC1-005	Progressive Cavity Valve - 0.005 cc
PC1-010	Progressive Cavity Valve - 0.01 cc
PC1-050	Progressive Cavity Valve - 0.05 cc
PC1-150	Progressive Cavity Valve - 0.15 cc
PC1-300	Progressive Cavity Valve - 0.30 cc

BENEFITS

- No dripping or drooling after dispense cycle
- Suitable for both low and high viscosity fluids
- Prevents damage to fillers in filled fluid materials
- Compatible with abrasive or filled materials*
- High level of process control

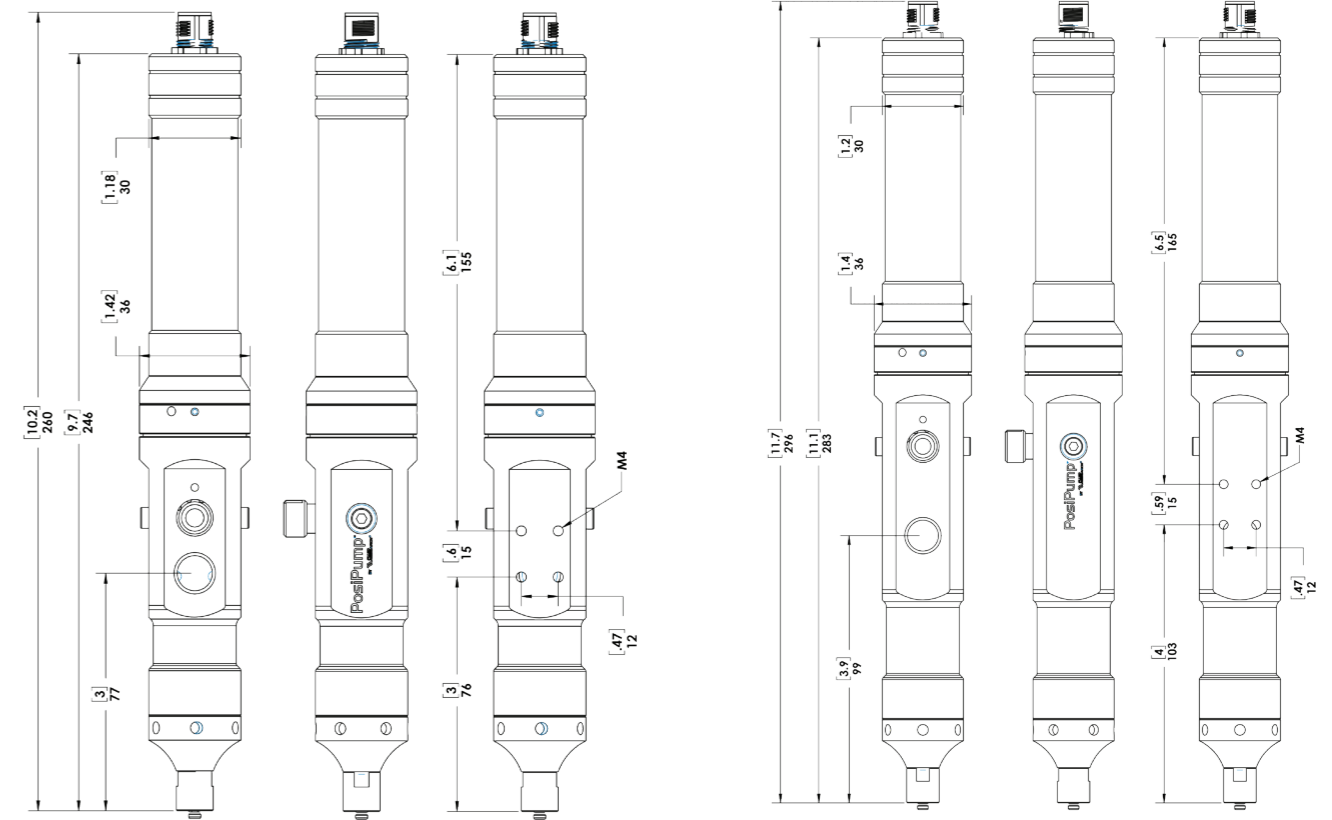
ENDLESS PISTON PRINCIPLE

The PosiPump™ valve is based on the endless piston principle using a rotor and stator to create a self-sealing pressure-tight positive displacement system.



PC1-005 / PC1-010 / PC1-050

PC1-150 / PC1-300



SPECIFICATIONS

Item Number	PC1-005	PC1-010	PC1-050	PC1-150	PC1-300
Dosing Volume/Rev	0.005 ml	0.013 ml	0.059 ml	0.163 ml	0.304 ml
Motor Speed	1 - 150 rpm				
Max Flow Rate**	0.75 ml/min	1.95 ml/min	8.85 ml/min	24.45 ml/min	45.6 ml/min
Fluid Input Pressure	1 - 100 psi				
Fluid Viscosity Range	1 - 500,000 cPs				
Rotor Material	CERAMIC				
Stator Material	FFKM				
Fluid Inlet & Outlet Material	AL6082 Hard Anodized				
Seal Material	PTFE				
O-Ring Material	FFKM				
Fluid Inlet Thread***	1/4" NPT				
Fluid Outlet Thread	Luer Lock				
Weight	450 g (0.99 lbs)	450 g (0.99 lbs)	480 g (1.06 lbs)	630 g (1.39 lbs)	660 g (1.46 lbs)

* Please consult your local sales representative to confirm 100% material compatibility.
 ** Max. flow rate based on 150 rpm of 63 mPas fluid. Higher viscosity fluids must be run at reduced rpm.
 *** PosiPump™ PC1 Series Valves are supplied with 871-1124 Adapter 1/8" BSP Male x 1/4" NPT Female.

POSIPUMP™ PC2 PROGRESSIVE CAVITY VALVES

The PosiPump PC2 progressive cavity valve offers simple and true volumetric meter mix dispensing of 2-component fluids and pastes, achieving exceptional levels of repeatability.

Independent control of each fluid material allows the mixing ratio to be finitely adjusted. The endless piston design principle ensures a constant volume is dispensed, regardless of small changes in fluid viscosity, thixotropy, or fluid inlet pressure

Bi-rotational control allows a drip free dispense cycle to be achieved, ensuring consistent and reliable dispense results.



Two connecting cables (PC1-CABLE (32 ft) or PC1-CABLE-16 (16 ft) required for operation. Sold separately.

FEATURES

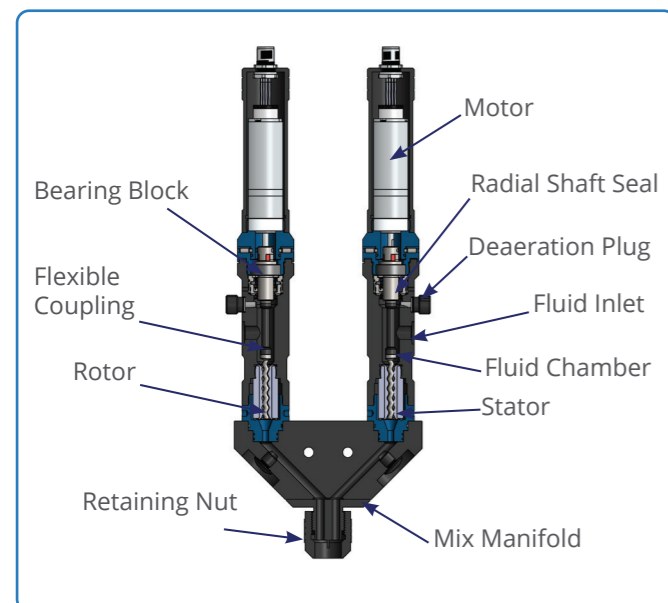
- Dispense volume as small as 0.01 ml
- Constant volumetric & pressure-stable dispense system
- Low pulsation and shear
- High dispense accuracy and repeatability
- FFKM Stator Material
- Long service life
- Suitable for both low and high viscosity fluids

Item Number	Description
PC2-005005	Progressive Cavity Valve - 0.005/0.005 cc
PC2-010010	Progressive Cavity Valve - 0.01/0.01 cc
PC2-050050	Progressive Cavity Valve - 0.05/0.05 cc
PC2-150150	Progressive Cavity Valve - 0.15/0.15 cc
PC2-300300	Progressive Cavity Valve - 0.30/0.30 cc

Item numbers shown are for use with 1:1 and 2:1 ratio fluid materials dispensed from a C-Style 16.7 mm bell mouth mixing nozzles.

Please consult your local sales representative for item number confirmation when using wide ratio fluid materials or when using alternative type mixing nozzles (e.g. A-style).

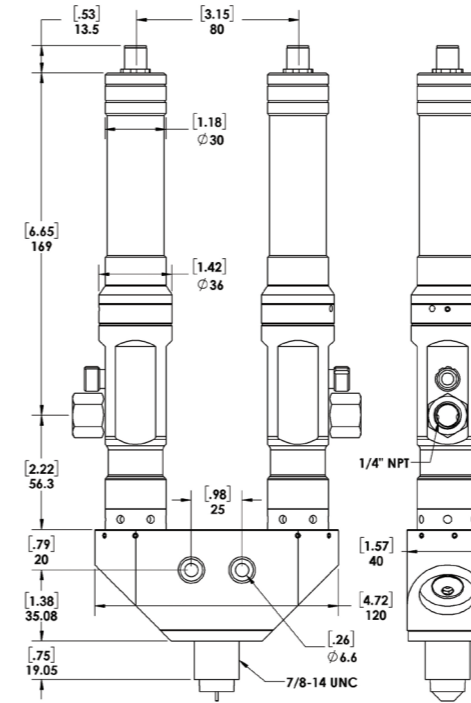
SECTION VIEW



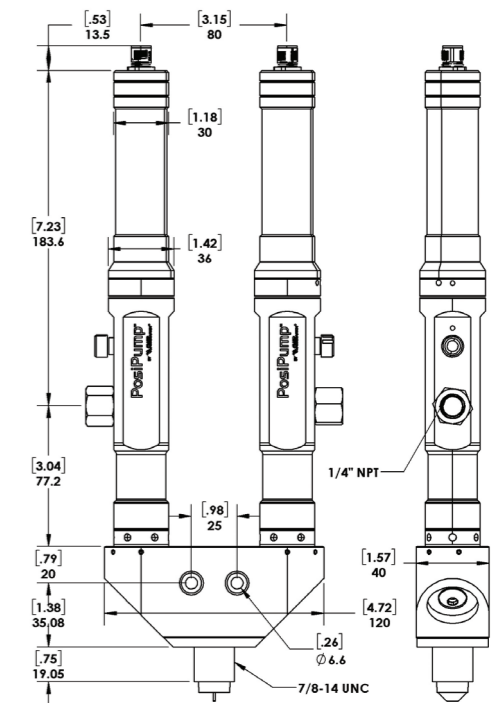
BENEFITS

- No dripping or drooling after dispense cycle
- Precise motor speed control allows the fluid material mix ratio to be accurately achieved
- Prevents damage to fillers in filled fluid materials
- Compatible with abrasive or filled materials*
- Optional fluid pressure sensors prevent damage to valve motors in the event of fluid curing in the mixing nozzle

PC2-005005 / PC2-010010 PC2-050050



PC2-150150 / PC2-300300



SPECIFICATIONS

Item Number	PC2-005005	PC2-010010	PC2-050050	PC2-150150	PC2-300300
Dosing Volume/Rev**	0.010 ml	0.026 ml	0.118 ml	0.326 ml	0.608 ml
Motor Speed	1 - 150 rpm				
Max Flow Rate***	1.5 ml/min	3.9 ml/min	17.7 ml/min	48.9 ml/min	91.2 ml/min
Fluid Input Pressure	1 - 100 psi				
Fluid Viscosity Range	1 - 500,000 cPs				
Rotor Material****	CERAMIC				
Stator Material	FFKM				
Fluid Inlet & Outlet Material	AL6082 Hard Anodized				
Seal Material	PTFE				
O-Ring Material	FFKM				
Fluid Inlet Thread	1/4" NPT				
Fluid Outlet Thread	16.7 mm Bell Mouth (7/8-14 UNF)				
Weight	1.43 kg (3.15 lbs)	1.43 kg (3.15 lbs)	1.49 kg (3.28 lbs)	1.79 kg (3.95 lbs)	1.85 kg (4.08 lbs)

* Please consult your local sales representative to confirm 100% material compatibility.

** Dosing Volume/Rev based on 1:1 mix ratio by volume.

*** Max. flow rate based on 150 rpm of 63 mPas fluid. Higher viscosity fluids must be run at reduced rpm.

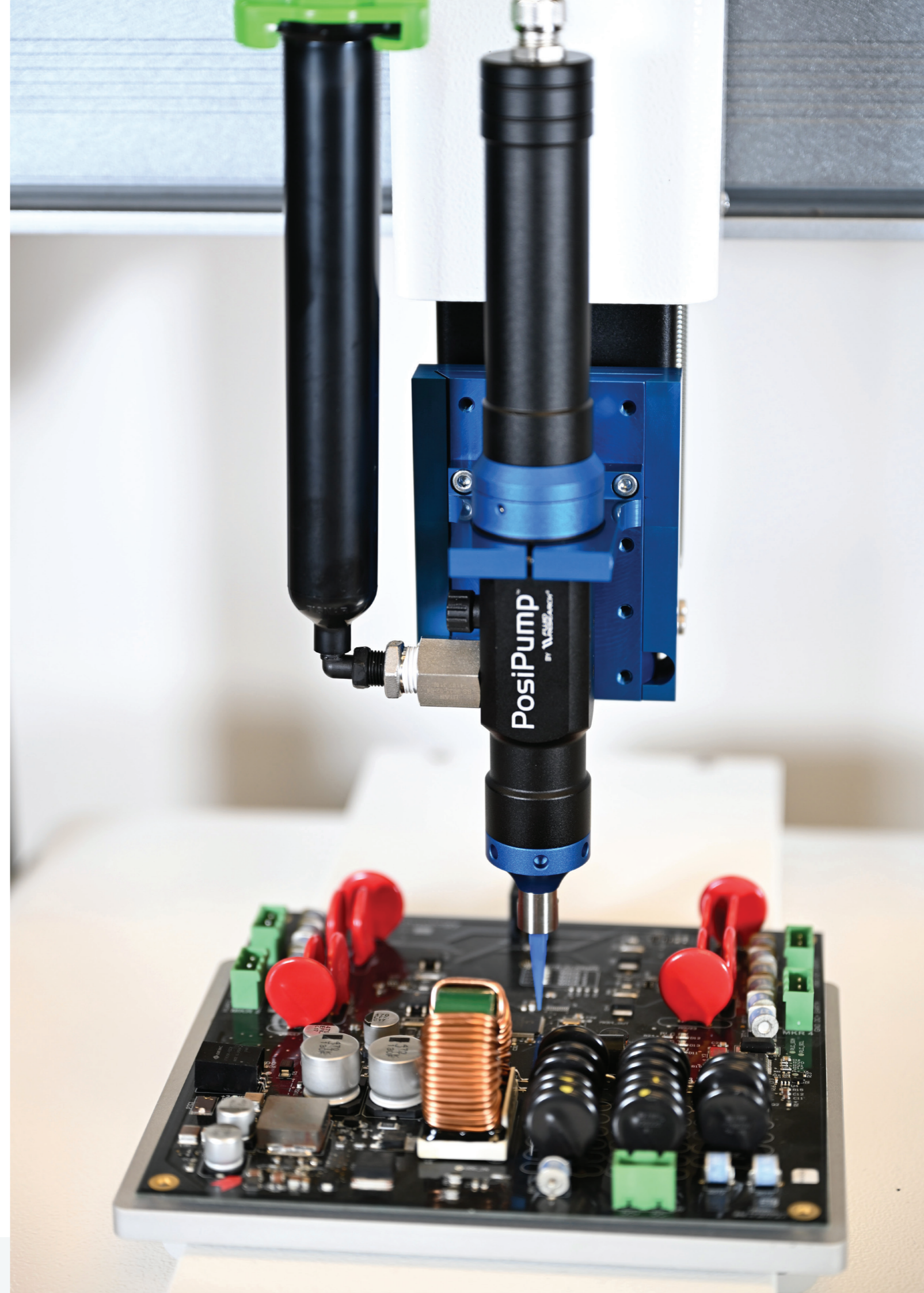
**** PosiPump™ PC2 Series Valves can also be supplied with ceramic rotor material.

POSIPUMP™ SPARE PARTS



A selection of service parts are available for maintaining the dispense performance of the PosiPump progressive cavity valves.

Item Number	Description	PC1-005	PC1-010	PC1-050	PC1-150	PC1-300	PC2-005005	PC2-010010	PC2-050050	PC2-150150	PC2-300300
5601924	Cleaning Kit	•	•	•	•	•	•	•	•	•	•
PCS-005	0.005 cc Stator Assembly - FFKM	•					•				
PCS-010	0.01cc Stator Assembly - FFKM		•					•			
PCS-050	0.05 cc Stator Assembly - FFKM			•					•		
PCS-150	0.15 cc Stator Assembly - FFKM				•					•	
PCS-300	0.3 cc Stator Assembly - FFKM					•					•
PCR-005	0.005 cc Rotor Assembly - SS	•					•				
PCR-005-C	0.005 CC ROTOR ASSEMBLY - CERAMIC	•					•				
PCR-010	0.01 cc Rotor Assembly - SS		•					•			
PCR-010-C	0.01 cc Rotor Assembly - Ceramic		•					•			
PCR-050	0.05 cc Rotor Assembly - SS			•					•		
PCR-050-C	0.05 cc Rotor Assembly - Ceramic			•					•		
PCR-150	0.15 cc Rotor Assembly - SS				•					•	
PCR-150-C	0.15 cc Rotor Assembly - Ceramic				•					•	
PCR-300	0.3 cc Rotor Assembly - SS					•					•
PCR-300-C	0.3 cc Rotor Assembly - Ceramic					•					•
PCSB-KIT	Seal & Bearing Kit	•	•	•	•	•	•	•	•	•	•
871-1124	1/4" NPT Fluid Inlet Fitting	•	•	•	•	•	•	•	•	•	•
851-1410	Bushing 1/4" NPT Male x 1/8" NPT Female	•	•	•	•	•	•	•	•	•	•
232-6017	Fluid Inlet Fitting Seal	•	•	•	•	•	•	•	•	•	•
211-2333	PC2 Series Manifold (7/8-14 UNF)						•	•	•	•	•
236-2335	Ratio Check Cap & Nut						•	•	•	•	•
236-2336	Night Cap & Nut						•	•	•	•	•
Accessories											
562318U	Valve Stand - PosiPump PC1	•	•	•	•	•					



PZ1200 PIEZO ELECTRIC JET/CONTACT DISPENSE VALVES

The Pz1200 Piezo Electric Valve can be configured as a non-contact jet or precise high-speed contact dispensing valve. The advanced piezo-electric ceramic actuation technology achieves exceptional levels of dispense accuracy and superior process control.

The integrated closed loop heater element inside the valve helps to stabilize fluid viscosity, resulting in optimized jetting and dispense process control.

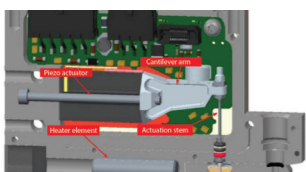
The unique modular valve design gives complete versatility for configuring to different application processes and fluid requirements.

FEATURES

- Dot size as small as 1 nl/0.2 mm
- Exceptional dispense accuracy
- Fixed valve stroke ensures superior process control
- Continuous cycle rates up to 1,200 Hz
- Fast cycle times and long service life
- Durable ceramic cartridge ball and valve seat
- Closed loop fluid heater for stabilizing fluid viscosity

PIEZO TECHNOLOGY VALVE OPERATION

The piezo actuator is composed of two stacks of ceramic disks that change shape as voltage is applied. This creates a deflection in the cantilever arm, causing the actuator stem to lift at a fixed stroke.



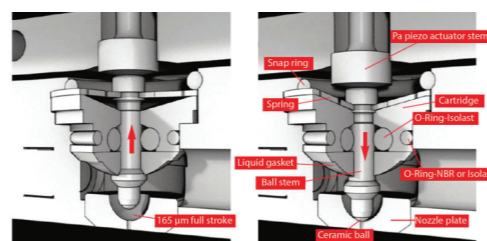
Valve seat module and fluid inlet fitting required for operation. Sold separately.

Item Number	Description
PZ1200S	Piezo Valve - Medium Viscosity
PZ1200D	Piezo Valve - High Viscosity

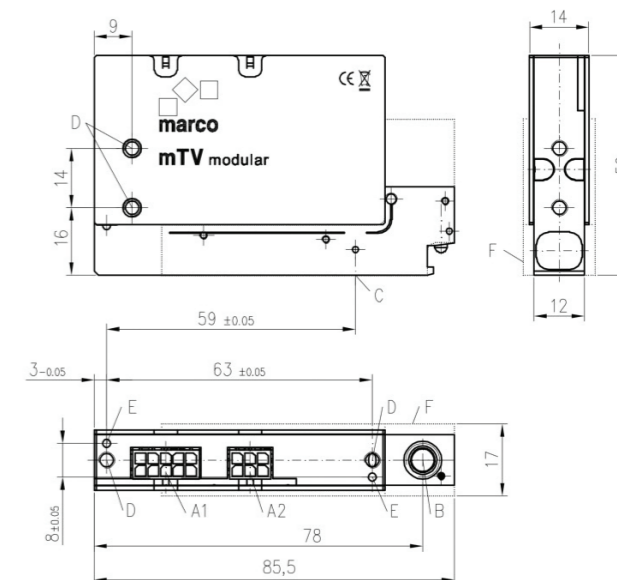
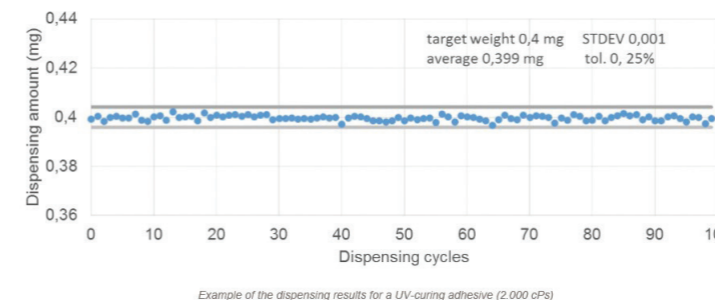
BENEFITS

- When used as a jet valve, Z-axis movement in between cycles is eliminated, which results in increased production cycle speeds
- Reduced production downtime due to faster maintenance times
- Ideal for use on uneven substrates or hard to access areas
- Compatible with a range of low to high viscosity fluids
- Modular design allows wetted parts to be easily serviced

When the ceramic ball lifts off its ceramic seat, the resulting cavity fills with fluid. As the ball reseats, a fluid droplet ejects from the valve.



PZ1200S/PZ1200D



SPECIFICATIONS

Item Number	Pz1200S	Pz1200D
Material Delivery Pressure	1,000 psi max	1,000 psi max
Viscosity Range	1 - 100,000 cps	50,000 cps
Wetted Components	Stainless Steel 303, Ceramix FFKM, NBR, PEEK	Stainless Steel 303, Ceramix FFKM, NBR, PEEK
Material Inlet	M8x1	M8x1
Min. Dispensing Time	0.20 ms	0.18 ms
Max Continuous Dispensing Frequency	120 Hz	500 Hz
Max Burst Dispensing Frequency	2,000 Hz	750 Hz
Maintenance/Inspection Interval	Approx. 10,000,000 cycles (fluid dependant)	Approx. 10,000,000 cycles (fluid dependant)
Dispensing Accuracy	>99% (non-varying conditions)	>99% (non-varying conditions)
Max Fluid Input Pressure	Up to 75 bar	Up to 75 bar
Max Fluid Temperature	Up to 75 °C	Up to 75 °C
Weight	320 g (0.7 lb)	320 g (0.7 lb)
Dimensions (WxDxH)	86 x 17 x 52 mm (3.4 x 0.7 x 2")	86 x 17 x 52 mm (3.4 x 0.7 x 2")

PZ1200 ACCESSORIES

VALVE SEAT MODULES

A range of jet valve seats and contact dispense modules (including cartridge) are available dependent on the specific application requirement and fluid material being processed. Jet valve seat modules are available in two different fluid outlet chamber designs to optimize fluid jetting performance.

C-Type: Standard choice for most low to medium viscosity fluids

T-Type: Suited for high viscosity or stringy fluids (other valve seat and cartridge modules are also available)

Consult with your local Fisnar sales representative for the best configuration based on your specific application.



Item Number	Description	Nozzle Size	Valve Seat Type	Cartridge Type/Size
PZ-VS-D100C	Valve Seat	100 µm	Non-Contact (Jetting)	C/1.58 mm
PZ-VS-D100T	Valve Seat	100 µm	Non-Contact (Jetting)	T/1.58 mm
PZ-VS-D150C	Valve Seat	150 µm	Non-Contact (Jetting)	C/1.58 mm
PZ-VS-D150T	Valve Seat	150 µm	Non-Contact (Jetting)	T/1.58 mm
PZ-VS-D300C	Valve Seat	300 µm	Non-Contact (Jetting)	C/1.58 mm
PZ-VS-D300T	Valve Seat	300 µm	Non-Contact (Jetting)	T/1.58 mm
PZ-VS-SN*	Valve Seat	800 µm	Contact Needle Dispensing	C/1.58 mm
PZ-VS-LL*	Valve Seat	600 µm	Contact Needle Dispensing	C/1.58 mm

*For contact dispensing, we recommend the PZ-VS-SN screw nozzle valve seat, due to its superior dispense performance in eliminating fluid drool post dispense, while also maintaining a constant Z-height position during the changing of dispense nozzles.

SCREW NOZZLES

A range of screw nozzles suitable for use on PZ-VS-SN valve.

Item Number	Description
PZ-TIP-SN100	Screw Nozzle 100 µm
PZ-TIP-SN200	Screw Nozzle 200 µm
PZ-TIP-SN300	Screw Nozzle 300 µm
PZ-TIP-CAP	Screw Nozzle Protection Cap



PZ1200 ACCESSORIES

FLUID INLET FITTINGS AND ACCESSORIES

Available in two different types based on whether fluid is being fed directly from a syringe barrel or remotely via tubing from a fluid reservoir.

Item Number	Description
PZ-INLET-LLH	Fluid Inlet Fitting – Luer Lock
PZ-INLET-HOSE4H	Fluid Inlet Fitting – 4 mm I.D. Tubing
PZ-INLET-SUPPORT	30/55 cc Syringe Barrel Support Bracket



SERVICE PARTS

A selection of service parts to assist in maintaining the valve seat module during cleaning and preventative maintenance.

Item Number	Description
PZ-CART-D	Cartridge - 1.58 mm
PZ-SPARE-1	Snap Ring for Valve Seat (10 Pack)
PZ-SPARE-2	O-Ring for Valve Seat (10 Pack)
PZ-SPARE-3	Grub Screw for Valve Seat (10 Pack)



SERVICE TOOLS AND CLEANING

Specifically designed hand tools are available to aid assembly and disassembly of valve seat modules.

A useful kit containing a variety of utensils perfectly suited for cleaning the valve seat module and fluid inlet fitting.

Item Number	Description
PZ-TOOL-1	Screw Nozzle Removal/Insertion Tool
PZ-TOOL-2	Snap Ring Removal/Insertion Tool
PZ-TOOL-3	Cartridge Removal/Insertion Tool
PZ-TOOL-4	Valve Seat Removal Tool
PZ-CLEAN-KIT	Pz1200 Cleaning Kit



DTD50 REPAIR KITS



DTD50-RKP

DTD50 50 ml Dispenser
Repair Kit



DTD50RB-RKP

DTD50-RB 50 ml Dispenser
Repair Kit

VALVE REPAIR KITS



VD520PT-RK

VD520-PT Diaphragm
Valve Repair Kit



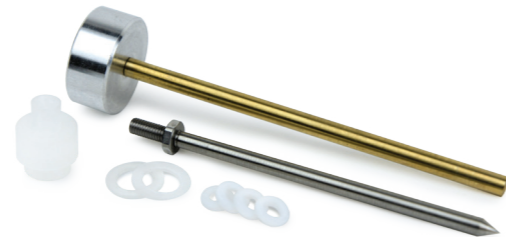
VD520SS-RK

VD520-SS Diaphragm Valve
Repair Kit



MV0180SS-RK

MV-0180SS Micro-Shot
Needle Valve Repair Kit



MV0180LF-RK

MV-0180LF Micro-Shot Needle
Valve Repair Kit



SV1000SS-RK

SV1000SS Valve Repair Kit



SV2000N-RK

SV2001N, SV2002N, &
SV2003N Valve Repair Kit

VALVE REPAIR KITS



VMP30H-RK

VMP30H Mini Poppet Valve
Repair Kit



VP300-RK

VP300 Poppet Valve Repair
Kit



VMS400-RK

VMS400 Mini Spool
Valve Repair Kit



790HP-RK

790HP-LF / 790HP-SS High
Pressure Valve Repair Kit



790HP-RKS

790HP-LF & 790HP-SS
High Pressure Valve
Repair Kit (w/Spool)



710PTU-RK

710PT-U Pinch Tube
Valve Repair Kit



VDP150-RK

VDP150 Positive Displacement
Valve Repair Kit



VTS4000-RK

VTS4000 Tip Seal Valve
Repair Kit



VTS4000-RKS

VTS4000 Tip Seal Valve
Repair Kit (w/Spool)



VALVE STANDS



560671U
790HP-LF
Valve Stand



562361U
PosiPump™ PC1
Valve Stand



560536U
MV-0180 Valve Stand



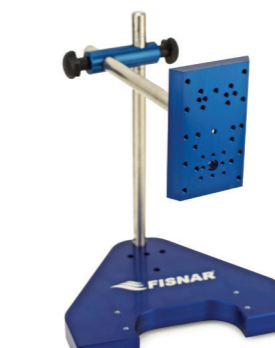
562166U
CV629 Valve Stand



562043U
VD520, VP300 Valve Stand



562054U
SV1000SS*, SV2000N*,
710PT-U* Valve Stand



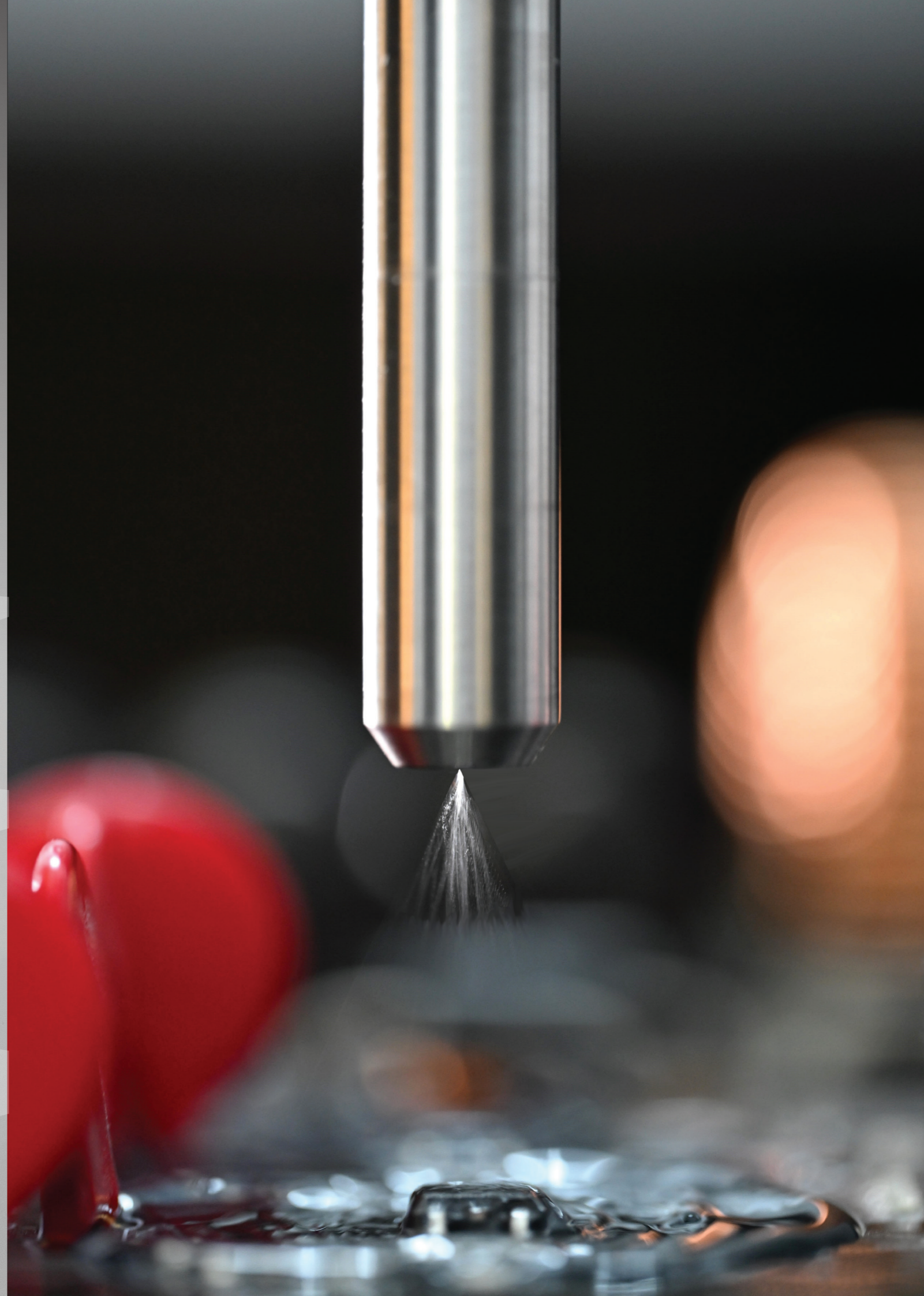
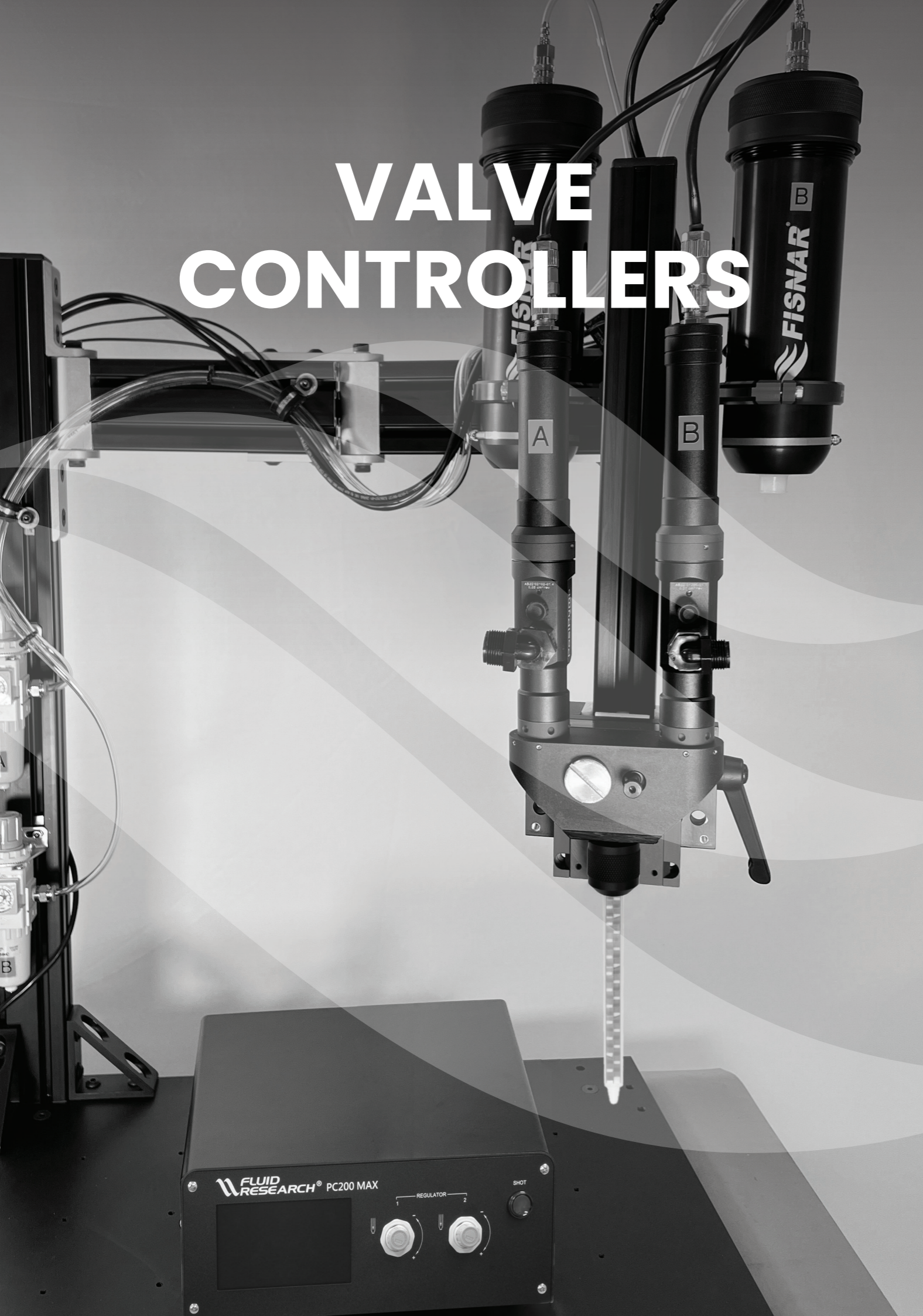
562235U
VMP30H, PDV-2000,
VMS400, VDP150 Valve
Stand



562318U
MX-150 & MX-250 UV LED
Emitter, DTD50, DTD50-RB,
RV400 Valve Stand

**Rod included with SV1000SS, SV2000N, and 710PT-U valves.*

VALVE CONTROLLERS



VC300 PRECISION VALVE CONTROLLER

The VC300 is a sophisticated controller able to control the operation of pneumatic dispensing valves containing spring return or air actuated closing actions. The internal high speed 5/2-way pneumatic solenoid valve is able to rapidly actuate and shut off the dispense valve to prevent drooling for consistent results.

An integrated pressure regulator and gauge offer precise control over dispense actuation and fluid input pressure, allowing a compact, simple valve system setup.

For use with 710PT-U, VD520, MV-0180, CV629, VP300, VMP30H, 790HP, VMS400, VTS4000 and VDP150 dispense valves.



560671U Stand and 790HP-LF Valve sold separately.

FEATURES

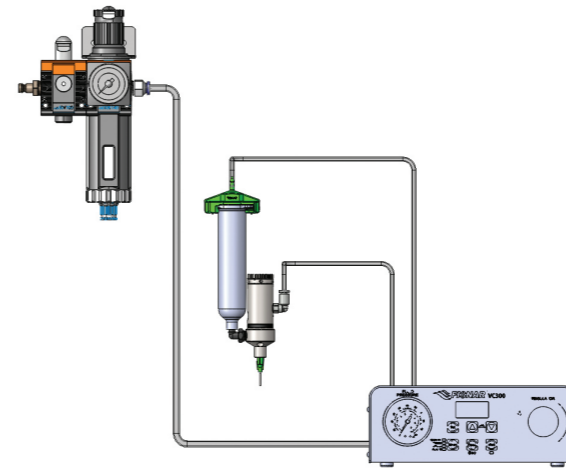
- Digital timer control for accurate and repeatable dispense results
- 0 - 100 psi precision regulator and gauge for controlling fluid pressure of the fluid feed system to the dispense valve
- Air input pressure alarm can be set for monitoring consistent system input pressure
- Operator lockout function to keep programs from being modified
- Auto-purge cycle and glue alarm to prevent premature curing of materials
- Dispense cycle counter for tracking completed dispense cycles
- 3 dispense modes (manual, timed & cycle) for use in many applications
- 7 channel I/O circuit for external control and robot integration
- Worldwide compatible power supply, foot pedal switch and 5-micron air filter regulator included

Item Number	Description
VC300	Precision Valve Controller

SPECIFICATIONS

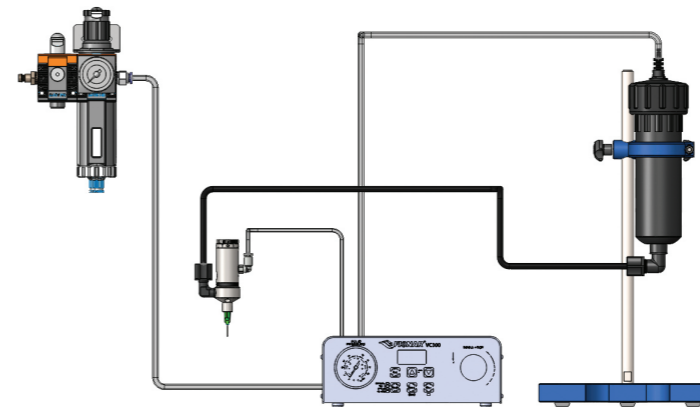
Cycle Rate	> 600 cycles/minute
Timer	0.008 - 999.9 s
Programs	1 memory slot
Input AC to Power Supply	100 - 240 VAC, 50/60 Hz
Output DC from Power Supply	24 VDC - 1.0 Amp
Air Input	100 psi (7 bar) max
Air Output	1 - 100 psi (0.07 - 7 bar)
Dimensions (WxDxH)	192 x 128 x 76 mm (7.56 x 5.04 x 3.00")
Weight	1.07 kg (2.36 lb)
Standards	CE and UCKA Approved, RoHS Compliant

VC300 CONTROLLER SYSTEM CONFIGURATION OPTIONS



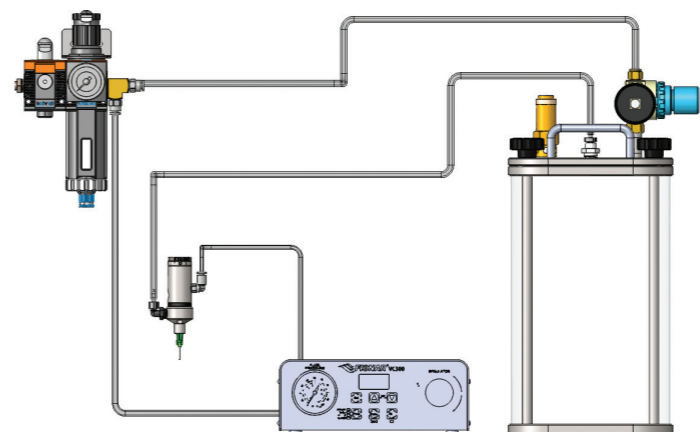
System Configuration 1

Item Number	Description
VC300	Precision Valve Controller
VD520-PT / VD520-SS	Diaphragm Valve
8001004	30 cc Syringe Barrel - Clear
8001009	30/55 cc Smoothflow Piston
8001021	30/55 cc Adapter Head Assembly



System Configuration 2

Item Number	Description
VC300	Precision Valve Controller
VD520-PT / VD520-SS	Diaphragm Valve
5801380-KIT	6 oz Cartridge Retainer Assembly
560535-NU	Cartridge Retainer Stand
560743-10FT	1/4" O.D. PE Tubing - Black
560748-BLACK	Fitting 1/4" O.D. x 1/4" NPT



System Configuration 3

Item Number	Description
VC300	Precision Valve Controller
VD520-PT / VD520-SS	Diaphragm Valve
PP450-GL	4.5 L Fluid Reservoir
580047A-10-36	0.10" I.D. PE Fluid Line - 36"

VC400 SPRAY VALVE CONTROLLER

The VC400 is an intelligent and easy-to-use spray valve controller with a bright multi-line LED display for achieving clean and precise spray patterns when using pneumatically operated spray valves.

The simple, user-friendly programming allows both the fluid spray dispense air supply signal and atomizing air supply signal to be independently programmed, enabling a complete spray dispense cycle to be quickly created and displayed. Additionally, the integrated pressure regulator and gauge allow for precise control of the atomizing air pressure supply to the spray valve.

For use with SV1000, SV2000 and SV3000 series spray valves.



562054U Stand and SV1000SS Spray Valve sold separately.

FEATURES

- Digital timer control for accurate and repeatable dispense results
- Precision regulator and gauge for setting atomizing air pressure supply to spray valve
- Air input pressure alarm can be set for monitoring consistent system input pressure
- Operator lockout function to keep programs from being modified
- Auto-purge cycle and glue alarm to prevent premature curing of materials
- Dispense cycle counter for tracking completed dispense cycles
- 3 dispense modes (manual, timed and cycle) for use in many applications
- 3 programmable spray time parameters (pre-spray, spray and post-spray) simultaneously displayed for achieving optimal spray result
- 7 channel I/O circuit for external control and robot integration
- Worldwide compatible power supply, foot pedal switch and 5-micron air filter regulator included

Item Number	Description
VC400	Spray Valve Controller

SPECIFICATIONS

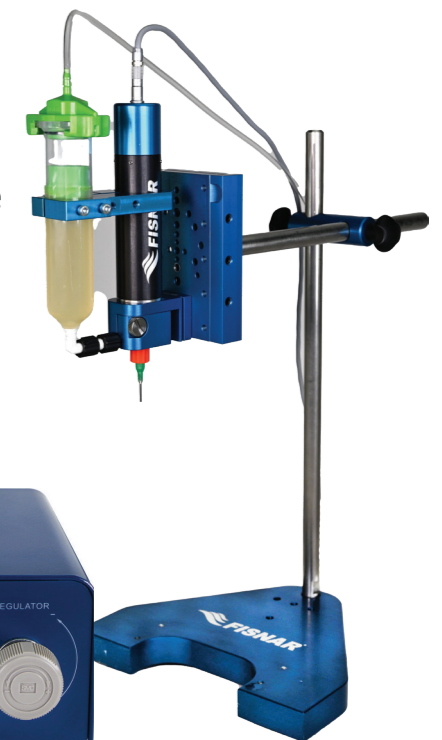
Cycle Rate	> 600 cycles/minute
Timer	0.008 - 999.9s
Programs	1 memory slot
Input AC to Power Supply	100 - 240 VAC, 50/60 Hz
Output DC from Power Supply	24 VDC - 1.0 Amp
Air Input	100 psi (7 bar) max
Air Output	1 - 100 psi (0.07 - 7 bar)
Dimensions (WxDxH)	192 x 128 x 76 mm (7.56 x 5.04 x 3.00")
Weight	1.23 kg (2.71 lb)
Standards	CE and UCKA Approved, RoHS Compliant

VC500 AUGER VALVE CONTROLLER

The VC500 is a sophisticated and easy-to-use valve controller for achieving precise, repeatable dispensing results when using 24V DC auger dispense valves. Dispensing parameters can be quickly entered into the machine using the intuitive navigation buttons, with all programmed values being simultaneously displayed on the multi-line LED screen.

A motor delay and reverse function result in a clean cut-off of the fluid material from the auger valve at the end of the dispensing cycle. The I/O interface ensures the controller can be easily and fully integrated with a dispensing robot or into an automated production line with ease.

For use with PDV2000 and RV400 series auger valves.



562318U Stand and RV400 Auger Valve sold separately.

FEATURES

- Digital timer control for accurate and repeatable dispense results
- 0 - 100 psi precision regulator and gauge for controlling fluid pressure of the fluid feed system to the auger valve
- Air input pressure alarm can be set for monitoring consistent system input pressure
- Motor current overload alarm protects the connected auger valve
- Operator lockout function to keep programs from being modified
- Auto-purge cycle and glue alarm to prevent premature curing of materials
- Dispense cycle counter for tracking completed dispense cycles
- 3 dispense modes (manual, timed and cycle)
- Adjustable forward and reverse motor speed control
- 2 fluid pressure outputs (constant and pulsed)
- 7 channel I/O circuit for external control and robot integration
- Worldwide compatible power supply, foot pedal switch and 5-micron air filter regulator included

Item Number	Description
VC500	Auger Valve Controller

SPECIFICATIONS

Cycle Rate	> 400 cycles/minute
Timer	0.008 - 999.9 s
Programs	1 memory slot
Input AC to Power Supply	100 - 240 VAC, 50/60 Hz
Output DC from Power Supply	24 VDC - 1.0 Amp
Air Input	100 psi (7 bar) max
Air Output	1 - 100 psi (0.07 - 7 bar)
Dimensions (WxDxH)	192 x 128 x 76 mm (7.56 x 5.04 x 3.00")
Weight	1.07 kg (2.36 lb)
Standards	CE and UCKA Approved, RoHS Compliant

PC200 MAX PROGRESSIVE CAVITY VALVE CONTROLLER

The PC200 MAX controller offers the user a convenient and effective way to control and manage the operation of up to two 1K or one 2K Posipump progressive cavity valve(s).

The user-friendly touch screen controlled dispense software features a wide range of intelligent functions, allowing the user to maximise the accuracy, control and monitoring of their dispensing application.

The sequence function enables the dispense time and flow rate to be changed at pre-set shot intervals. This dispense mode is particular useful for optimizing the efficiency and accuracy of potting applications

FEATURES

- Manual, timed, and sequence dispense modes
- Digital pressure output display
- Operator lockout
- Adjustable forward and reverse speed
- Controllable suck-back delay dwell time
- User friendly touch-screen interface (GUI)
- Cleaning routine for valve maintenance
- Auto-purge (anti-gel function)
- Remote program select function
- Can control 2x PosiPump™ PC1 valves or 1x PosiPump™ PC2 valve

OPTIONAL ACCESSORIES



An optional fluid pressure sensor can be installed in the fluid material path to the valve, preventing potential pump failure due to the maximum inlet pressure being exceeded.

Item Number	Description
572-5027-KIT	Fluid Pressure Sensor Kit 10 ft (3 m)



Item Number	Description
PC200 MAX	Progressive Cavity Valve Controller



Valve Connecting cable required for operation. Sold separately. PosiPump™ PC1 valve requires 1pcs PosiPump™ PC2 valve requires 2pcs

Item Number	Description
PC1-CABLE	Valve Connecting Cable 32 ft (10 m)
PC1-CABLE-16	Valve Connecting Cable 16 ft (5 m)

SPECIFICATIONS

Time Range	0.008 - 999 s
Programs	16 memory slots
Input AC to Power Supply	100 - 240 VAC, 50/60 Hz
Output DC from Power Supply	24 VDC - 2.5 Amp
I/O	7 inputs / 7 outputs / RS485
Air Input	70 - 100 psi
Air Output	1 - 100 psi
Dimensions (WxDxH)	274 x 153 x 106 mm (10.79 x 6.02 x 4.17)
Weight	1.52 KG (3.35 lb)
Standards	CE Approved, RoHS Compliant

PZ-CON PIEZO ELECTRIC VALVE CONTROLLER

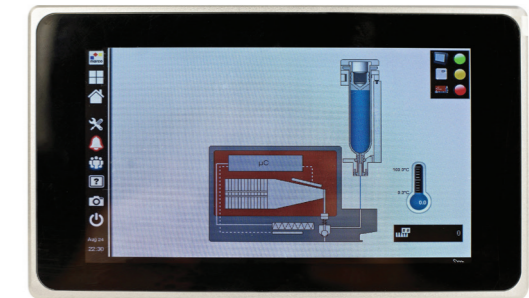
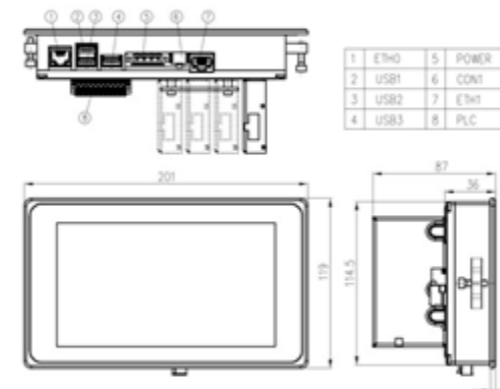
The PZ-CON piezo electric valve controller can be configured to independently control up to four PZ1200 valves. The pre-fitted driver module(s) uses an amplifier to generate the correct signal wave to actuate and control the piezo elements within the valve ensuring precise dispense control.

The built-in memory allows up to 10 individual programs to be created containing pulse time and sequencing times and frequency. A built in USB connection also allows for programs to be remotely stored.

Each controller is supplied with three different user adjustable pulse definition profiles, which is critical when jetting fluid materials in order to minimize fluid build-up on the valve seat and unwanted satellites on substrate.

FEATURES

- User friendly 7" touchscreen display
- User configurable I/O
- Control up to four valves
- Temperature control
- Operator lockout
- Valve purge screen
- 10 user programmable memories
- Trigger or continuous operation mode
- Remote program backup
- Programmable pulse definition profiles



Power supply & valve connecting cable (4.5 m) included.

Item Number	Description
PZ-CON-1	Piezo Valve Controller - 1 Channel
PZ-CON-2	Piezo Valve Controller - 2 Channel
PZ-CON-3	Piezo Valve Controller - 3 Channel
PZ-CON-4	Piezo Valve Controller - 4 Channel

SPECIFICATIONS

Time Range	0.84 - 999 ms
Programs	10 memory slots
I/O	3 inputs / 5 outputs
Input AC to Power Supply	96 - 264 VAC, 47 - 63 Hz
Output DC from Power Supply	24 V / 11.67 A
Dimensions (WxDxH)	201 x 119 x 32.5 mm (8 x 4.7 x 1.3")
Weight	800 g (1.76 lb)
Standards	CE Approved, RoHS Compliant

RESERVOIRS & PUMPS



IJ SERIES RESERVOIR TANKS

Reservoir tanks are used to feed bulk fluids to a variety of dispensing valves. A range of sizes are available including bottom ported for medium to high viscosity liquids and top ported for low to medium viscosities.

An "open top" style is used if liners are required to prevent the material from making contact with the sides of the container or if the fluid requires an agitator.

All reservoirs come standard with associated airline, fluid line, regulator, and fittings.



IJ2601N-SS-SP



IJ2601N-SS



IJ-0100R



IJ-0200R



IJ-0300R



IJ-0100



IJ-0200



IJ-0300



560554-T14



IJ-83B-500



IJ-83B-500-SP



IJ-83B-500-BK



IJ-83Z-211



IJ-83G-510-SP

IJ SERIES RESERVOIR TANKS

Item Number	Capacity (Gallon)	Lid Style	Fluid Outlet	Riser	Base	Tank Material	Max Pressure (psi)	Overall Outer Dimension WxH (inches)	Material Hose O.D.
IJ2601N-SS-SP	0.5	Screw	Top	PE	Metal	SS	50	6 1/2 x 8	1/4"
IJ2601N-SS	0.5	Screw	Top	SS	Metal	SS	50	6 1/2 x 8	1/4"
IJ-0100R	1	Small Mouth	Top	SS	Rubber	SS	125	9 x 9 1/4	1/4"
IJ-0200R	2	Small Mouth	Top	SS	Rubber	SS	125	9 x 11 5/8	1/4"
IJ-0300R	5	Small Mouth	Top	SS	Rubber	SS	125	9 x 24 15/16	1/4"
IJ-0100	1	Small Mouth	Bottom	N/A	Metal	SS	125	9 x 12 9/16	1/4"
IJ-0200	2	Small Mouth	Bottom	N/A	Metal	SS	125	9 x 14 1/4	1/4"
IJ-0300	5	Small Mouth	Bottom	N/A	Metal	SS	125	9 x 24 15/16	1/4"
IJ-83B-500	2.8	Clamp	Top	Galvanized Steel	Metal	Galvanized Steel	80	13 3/8 x 20 1/2	1/4"
IJ-83B-500-SP	2.8	Clamp	Top	PE	Metal	Galvanized Steel	80	13 3/8 x 20 1/2	1/4"
IJ-83B-500-BK	2.8	Clamp	Top	PE	Metal	Galvanized Steel	80	13 3/8 x 20 1/2	1/4"
IJ-83Z-211	2.8	Clamp/Agitator	Top	SS	Metal	Galvanized Steel	80	13 3/8 x 23 5/8	1/4"
IJ-83G-510-SP	5	Clamp	Top	PE	Metal	Galvanized Steel	80	18 1/2 x 30 5/16	1/4"

Available Accessories

Item Number	Description
560554-T14	Material shut off valve assembly for IJ-0100, IJ-0200, and IJ-0300 - Stainless Steel
IJ-83B-RL	Replaceable liner for IJ-83B-500, IJ-83Z-211, IJ-83B-500-SP, and IJ-83B-500-BK
PTL-408-K20	Replaceable liner for IJ-83G-510-SP
560934B	Pressure Gauge 0 - 100 psi - 1/8" NPT Side Mount
560779	Pressure Regulator 0 - 100 psi - 1/4" NPT
560720N	Cap Seal NBR for IJ2601N-SS-SP and IJ2601N-SS reservoir
560944	O-ring EPDM for IJ-0100, IJ-0200 and IJ-0300 series bottle-style reservoirs
560944T	PTFE encapsulated Viton® O-ring for IJ-0100, IJ-0200, and IJ-0300 bottle-style reservoirs
PT-33-1	Cap Seal Santoprene for IJ-83B and IJ-83Z reservoir



FPT SERIES MODULAR RESERVOIR TANKS

Designed with safety and quality in mind, Fisnar stainless steel fluid pressure tanks maintain a steady fluid pressure for many dispensing applications.

The modular design provides the user with a choice of fluid outlet positions, and offers the simple addition of productivity accessories when needed.

The FPT series of tanks contain a stainless steel 304 construction offering high chemical resistance while preventing fluid contamination and evaporation.

All reservoirs come standard with associated airline, fluid line, regulator, and fittings.



Item Number	Capacity (Liters)	Style	Riser	Tank Material	Max Working Pressure (psi)	Overall Inner Dimension WxH (mm)	Overall Outer Dimension WxH (mm)	Material Hose O.D. (inches)
FPT800SS	8	Pneumatic Standard	PE	SS	100	200 x 260	276 x 460	1/4
FPT1200SS	12	Pneumatic Standard	PE	SS	100	200 x 390	276 x 590	1/4

FPT SERIES ELECTRIC AGITATED PRESSURE TANKS

Fisnar stainless steel 304 electric agitated fluid pressure tanks are specifically designed to suit fluids requiring agitation. The dual blade mixing element works best with low to medium viscosity fluids and keeps exothermic reactions as low as possible.

The electric motor controller allows simple, easy control of agitation speed. It can also be easily integrated into a PLC interface for production line assemblies. A fluid outlet at the top allows productivity accessories to be easily fitted when needed.

All reservoirs come standard with associated airline, fluid line, regulator, and fittings.

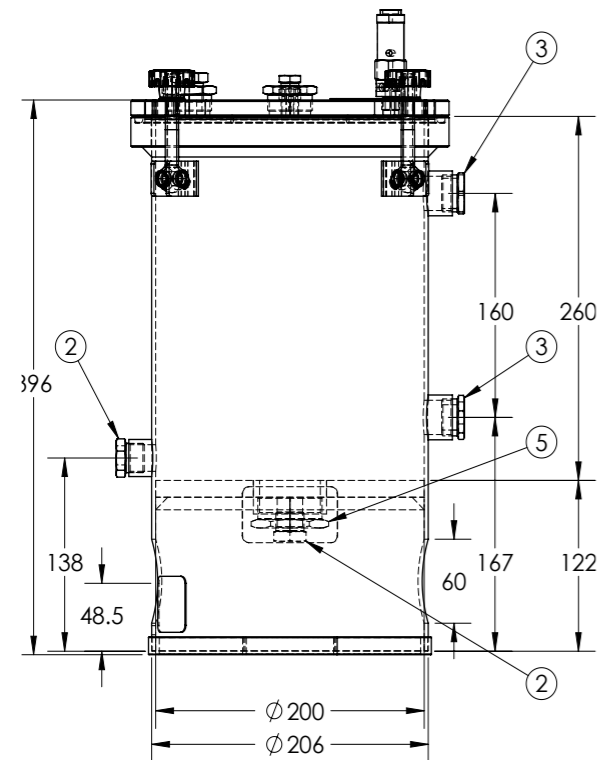


Item Number	Capacity (Liters)	Voltage	Riser	Tank Material	Max Working Pressure (psi)	Overall Inner Dimension WxH (mm)	Overall Outer Dimension WxH (mm)	Material Hose O.D. (inches)
FPT800SS-EAG-US	8	110 V	SS	SS	100	200 x 260	276 x 530	1/4
FPT800SS-EAG-UK		220 V						
FPT800SS-EAG-EU		220 V						
FPT1200SS-EAG-US	12	110 V	SS	SS	100	200 x 390	276 x 660	1/4
FPT1200SS-EAG-UK		220 V						
FPT1200SS-EAG-EU		220 V						

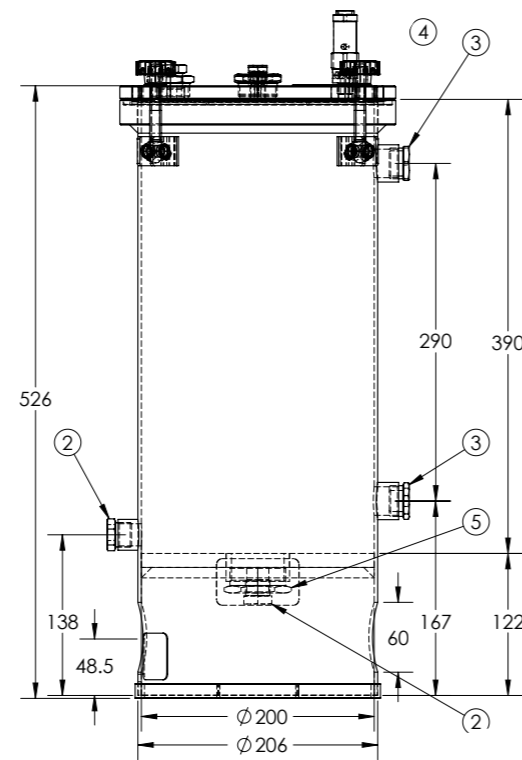
*FPT electric agitated fluid pressure tanks must be used in conjunction with a bottom outlet fluid material shut off kit (560554-T12).

PRESSURE TANK DIMENSIONS

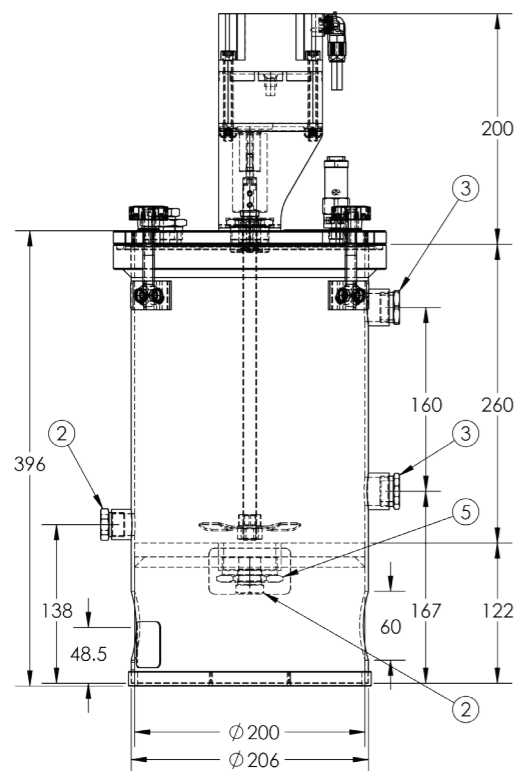
FPT800SS



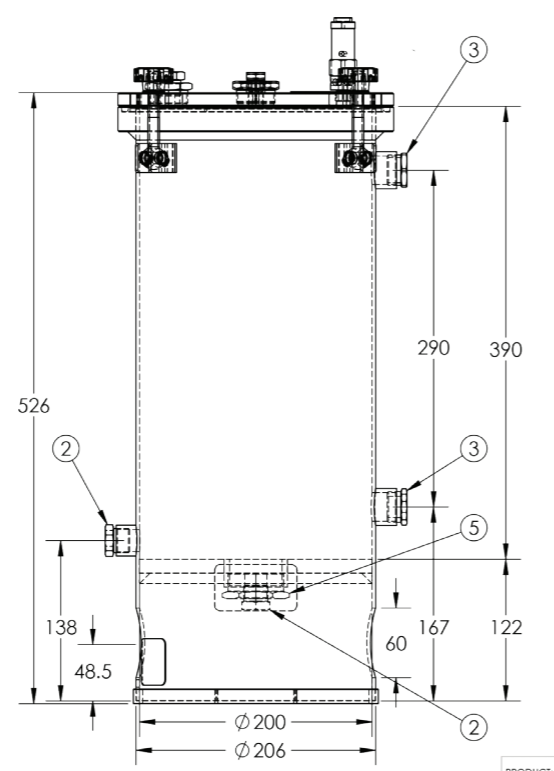
FPT1200SS



FPT800SS-EAG



FPT1200SS-EAG



STANDARD PARTS (INCLUDED)

All FPT series pressure tanks are supplied with the below parts included.

Spare Parts

Item Number	Description	
5601996	Hex Head Plug 1/4" NPT Male - Stainless Steel	
5601997	Hex Head Plug 1/2" BSP Male - Stainless Steel	
5601998	Hex Head Plug 3/4" BSP Male - Stainless Steel	
5601999	Bushing 1" BSP Male x 1/4" NPT Female - Stainless Steel	
5602000	Bushing 1" BSP Male x 1/2" BSP Female - Stainless Steel	
5602001	Bushing 1 1/2" BSP Male x 1/2" BSP Female - Stainless Steel	
5601982	Pressure Relief Valve (100 psi) - 1/4" BSP - Brass	
560656-2601	Pass Thru Fitting 1/4" O.D. Tube x 1/4" NPT Male - Natural	
561851	1/4" O.D PU Tubing with 1/4" O.D. Push Fitting - Clear - 6 ft	
561415-IJ-10FT	1/4" O.D. x 0.170" I.D. PE Tubing - Natural - 10 ft	
FPT-REGKIT	Precision Pressure Regulator & Digital Gauge 0 - 100 psi Assembly	
5602018	Check Valve 1/8" I.D. Tube - Polypropylene	

Accessories

Item Number	Description	
561416-10FT	3/8" O.D. x 1/4" I.D. PE Tubing - Natural - 10 ft	
560743-10FT	1/4" O.D. x 0.170" I.D. PE Tubing - Black - 10 ft	
560744-10FT	3/8" O.D. x 1/4" I.D. PE Tubing - Black - 10 ft	
560656-BLACK-2601	Pass Thru Fitting 1/4" O.D. Tube x 1/4" NPT Male - Natural	
560656-BLACK-2601	Pass Thru Fitting 1/4" O.D. Tube x 1/4" NPT Male - Natural	
913-2601	Pass Thru Fitting 1/4" O.D. Tube x 1/4" NPT Male - Natural	

FPT SERIES TANK ACCESSORIES

STAINLESS STEEL FLUID OUTLET KITS

Top Outlet Kit

Allows low viscosity fluids to be fed out of the top of the tank. An integral ball valve allows the fluid supply to be turned on and off when needed.



Bottom Outlet Kit

Allows low to medium viscosity fluids to be fed out of the bottom of the tank. An integral ball valve allows the fluid supply to be turned on and off when needed.

Item Number	Description
FPT-RISER	Top Outlet Fluid Material Shut Off Kit - SS
560554-T12	Bottom Outlet Fluid Material Shut Off Kit - SS

LOW LEVEL SENSING

Stem-mounted Float Switch (Contact)

Fitted inside the tank and submerged in the fluid. The moving float is used to detect the falling action of the fluid.



Capacitive Sensor (Non-Contact)

Allows the fluid contained directly inside the tank or inside a non-metallic container to be detected without making physical contact to it.

Item Number	Description
FPT-LCS	Capacitive Low Level Sensor Kit (NPN) - 5 m
FPT-LFS	Low Level Float Switch

HEATER JACKET

A specially designed temperature controlled heater jacket to accurately and consistently maintain the temperature of the fluid material contained within the tank. Managing the temperature of the fluid material improves process control by regulating the fluid viscosity and flow rate.

The jacket is made from polyester and mineral wool to ensure maximum insulation and prevent heat loss. The integrated control panel allows for easy temperature setup and display read out.

Item Number	Description
FPT-HJ-US	Heater Jacket 110 VAC (Type B Plug)
FPT-HJ-EU	Heater Jacket 220 VAC (Type F Plug)
FPT-HJ-UK	Heater Jacket 220 VAC (Type G Plug)



SPECIFICATIONS

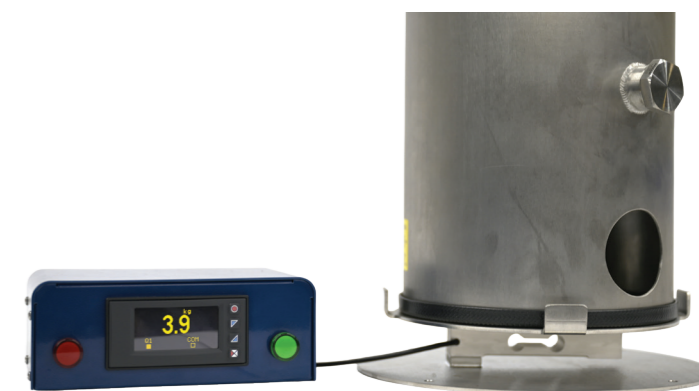
Power Supply	100 - 115 VAC 200 - 230 VAC / 300W
Temperature Range	0 - 100 °C 0 - 212 °F
Safety Thermostat	100 °C 212 °F

FPT SERIES TANK ACCESSORIES

LOAD CELL / DIGITAL TANK WEIGHING SCALE

For applications where added process control is needed for the fluid level to be constantly monitored. The pressure tank filled with fluid is placed on top of the weigh scale. The integrated load cell is then used to calculate the weight of the tank, which is constantly displayed on the included controller. The controller can be easily programmed to output a signal when the tank has reached a particular weight signifying it has reached its "low level point".

Item Number	Description
FPT-LC	Load Cell



VACUUM DEGAS KIT

Allows the fluid inside the tank to be degassed prior to pressurization and feeding to a dispense valve.



Item Number	Description
FPT-VDK	Vacuum Degassing Kit

TANK DOLLY

Allows the fluid pressure tank to be safely and easily moved between work environment for filling or cleaning requirements.



Item Number	Description
FPT-Dolly	PT Series Dolly

FLUID CONTAINER

Provides a simple and effective solution for safely storing the fluid inside the tank, preventing contamination and keeping the surfaces clean.



Item Number	Description
FPT-JAR800	HDPE Fluid Container for FPT800 1 Gallon (128 oz)



PP450-GL CLEAR VIEW PRESSURE CHAMBER

A see-through pressure chamber for dispensing low to medium viscosity liquids directly from bottles and up to 1 lb (0.45 kg) plastic containers. Regulated air pressure forces the liquid in the bottle up through a disposable tube to a connector, which can be interfaced to a valve or dispensing pen.

FEATURES

- Convenient quick pressure release slide valve
- Comes standard with a luer lock fitting for use with low-viscosity fluids
- Compatible with medium viscosity fluids when using supplied 1/4" fluid line kit
- All wetted disposable parts
- Material visual monitoring
- Glass chamber prevents blooming or crazing when using cyanoacrylates
- Operating pressure up to 60 psi

SPECIFICATIONS

Capacity	1.2 gal / 4.5 l
Maximum Operating Pressure	60 psi (4 bar)
Maximum Operating Temperature	100 °F (38 °C)
Minimum Operating Temperature	39 °F (4 °C)
Internal Diameter	150 mm (6")
Internal Height	254 mm (10")
External Width	165 x 165 mm (6.5 x 6.5")
External Height	406 mm (16")
Weight	6.74 kg (14.85 lb)



Can also be used with 710PT-U & 700PTPU pinch tube valve & pen.

Item Number	Description
PP450-GL	4.5 Liter Pressure Chamber

Accessories

Item Number	Description
560620	Dip Tube
580047A-10-24	Fluid Line 0.10" I.D. x 24" Long
560657	Female Fitting 1/4" NPT x 1/4" Tube
5801450	Male Luer Lock Adapter
562320	Male LL Adapter x 1/4" NPT x 1/8" FPT
562321	Female LL Adapter x 1/8" NPT
562322	PP Compression Fitting 1/4" NPT x 1/4" Tube
561415-IJ-10FT	P.E. Tubing 0.170" I.D. x 1/4" O.D.
561851	Air Line



1/4" Tube Fitting
Standard use for supplying material to dispense valves



Luer Lock Tube Fitting
For use with 710PT-U and 700PTPU

EP1310C SINGLE CARTRIDGE PUMP SYSTEM

A powerful, medium-ratio system for controlled fluid transfer from 1/10th gallon (310 ml) plastic cartridges. Suitable for silicone-type fluids, this low-pulse pump design can be used with a dispense valve or connected to an automatic production robot for controlled dispensing applications.

The EP1310C is designed to easily transfer material for controlled dispensing via a high pressure valve, providing a maximum of 995 psi regulated material pressure. The cartridge is contained with a metal-jacketed cylinder.



Item Number	Description
EP1310C	Pump Electric 1/10th Gallon

SPECIFICATIONS

Size	225 x 170 x 649 mm 8.86 x 6.69 x 25.55"
Pump Input for Sensing	220 VAC, 50 - 60 Hz, 20 watts
Air Input Pressure	30 - 100 psi
Maximum Output Pressure	995 psi
Fluid Viscosity Range	10,000 - 600,000 cps
Ratio	15
Minimum Volume/Stroke	0.01 cc/shot
Air Consumption	80 l/min
Cartridge Size	300 - 310 ml
Air Inlet/Fluid Outlet Size	1/4" NPT (f)
Wetted Parts	304 and 17-4 ph Stainless Steel, PTFE, Viton®, and PEEK seals
Weight	15 kg (33 lb)

FEATURES

- Material delivered air free
- Wipe-clean action
- High-pressure regulation
- Pressure piston assist with adjustable piston pressure
- Electrical extruder motor
- Simple load mechanism for easy cleaning and easy automatic systems hook up

EP1320C DUAL CARTRIDGE PUMP SYSTEM

A powerful, medium-ratio system for controlled fluid transfer from 1/10th gallon (310 ml) plastic cartridges. Suitable for silicone-type fluids. The system integrates a dual (A+B) tandem cartridge arrangement for continuous-flow management. A low-pulse pump design allows automatic control of dispensing applications. The EP1320C is designed to easily transfer material for controlled dispensing via a high pressure valve.

Rated at 15:1 the system provides a maximum of 995 psi regulated material pressure. The A+B cartridge management automatically switches from either A to B or B to A when the cartridge is exhausted. Cartridges are contained in metal-jacketed cylinders.



Item Number	Description
EP1320C	Dual Cartridge Pump System 1/10th Gallon

SPECIFICATIONS

Size	272 x 288 x 649 mm (10.71 x 11.34 x 25.55")
Pump Input for Sensing	220 VAC, 50 - 60 Hz, 20 watts
Air Input Pressure	30 - 100 psi
Maximum Output Pressure	995 psi
Fluid Viscosity Range	10,000 - 600,000 cps
Minimum Volume/Stroke	0.01 cc/shot
Air Consumption	80 l/min
Air Inlet/Fluid Outlet Size	1/4" NPT (f)
Wetted Parts	304 and 17-4 ph Stainless Steel, PTFE, Viton®, and PEEK seals
Weight	18 kg (40 lb)

FEATURES

- Material delivered air-free
- Wipe-clean action
- High-pressure regulation and adjustable pressure piston assist
- Electrical extruder motor
- Easy hook up for automatic systems

DA35 AUTOCAN EXTRUDER SYSTEM

The DA35 extrudes medium to high viscosity materials under pressure directly from a pre-filled can. This system is suitable for automatic and semi-automatic controlled dispensing applications, which require a constant supply of air-free material.

The extruder pump body is fitted with a follower plate that seals and follows the material as the level drops to wipe the sides of the can clean, limiting waste. Supplied as standard with a NBR wiper seal fitted. Optional FKM wiper seal sold separately.



Controller, hose, valve, and handle sold separately.

FEATURES

- Prevents air bubbles and material voids
- Air ram assist to help drive material
- Simple load mechanism provides easy cleaning
- Easy hook up for automatic systems
- Low noise electric extruder model
- Integrated low level alarm and warning light

SPECIFICATIONS

Size	215 x 440 mm (8.46 x 17.32")
Height Adjustment	550 mm min - 720 mm max (21.65" min - 28.35" max)
Power Input for Sensing	110 - 220 VAC, 50 - 60 Hz
Air Input Pressure	30 - 100 psi
Maximum Output Pressure	850 psi
Fluid Viscosity Range	30,000 - 300,000 cps
Ratio	8.5
Volume/Stroke	5 cc
Max Pump Speed	60 rpm
Air Inlet/Fluid Outlet Size	1/4" NPT (f)
Wetted Parts	PTFE, Viton®, and PEEK seals
Weight	12.73 kg (28 lb)

Models

Item Number	Description
DA35-1KG-US	Autocan Pump 110 VAC
DA35-3KG-US	Autocan Pump 110 VAC
DA35-1KG-EU	Autocan Pump 220 VAC
DA35-3KG-EU	Autocan Pump 220 VAC
DA35-1KG-UK	Autocan Pump 220 VAC
DA35-3KG-UK	Autocan Pump 220 VAC

Accessories

Item Number	Description
651780-A3A-B	Fluid Regulator SS 3,000 psi
EP1415K	Fluid Regulator Install Kit with Gauge Fittings
DA35-1KG	Follower Plate 1 kg
DA35-3KG	Follower Plate 3 kg
1300060-1KG-NBR	Follower Wiper Seal NBR (117 mm O.D.)
1300060-3KG-NBR	Follower Wiper Seal NBR (168 mm O.D.)
1300060-1KG-FKM	Follower Wiper Seal FKM (117 mm O.D.)
1300060-3KG-FKM	Follower Wiper Seal FKM (168 mm O.D.)

EPI305N PAIL EXTRUDER SYSTEM

The EP1305N is designed for dispensing 5 gallon pails of medium to high viscosity fluid. Ideal for silicones and grease. Systems are rated at 15:1 and provide a maximum of 996 psi regulated material pressure.

The extruder pump body is fitted with a follower plate that seals and follows the material as the level drops to wipe the sides of the pail clean, limiting waste. The fluid is pressure-fed by reinforced hoses to a valve that is actuated by a valve controller.

The EP1305 utilizes a low-pulse pump design suitable for automatic production dispensing applications, when used with a fluid regulator. These applications require a constant supply of air-free material. Air bubbles and material voids, caused by handling or decanting high viscosity fluids, are prevented. Supplied standard with 20 kg follower plate.



Item Number	Description
EP1305N	Pump Electric 20 kg (5 Gallon 15:1 220 VAC)

FEATURES

- Material delivered air free
- Wipe-clean action
- Air ram assist to help drive material and adjustable air ram pressure
- Electrical extruder motor
- Simple load mechanism for easy cleaning

Accessories









Item Number	Description
EP1305WP	Follower Plate for 20 kg (5 gallon pail)
EP1300LPS	Low Level Sensor
651780-A3A-B	Fluid Regulator SS 3,000 psi
EP1415K	Fluid Regulator Install Kit with Gauge and Fittings

SPECIFICATIONS

Size	500 x 400 x 1,200 mm (19.68 x 15.74 x 47.24")
Height Adjustment	755 mm min - 1,200 mm max (29.72" min x 47.24" max)
Power Input for Sensing	220 VAC, 50 - 60 Hz, 20 watts
Air Input Pressure	30 - 100 psi
Maximum Output Pressure	996 psi max
Fluid Viscosity Range	10,000 - 600,000 cps
Minimum Volume/Stroke	0.01 cc/shot
Max Operating Pressure	50 °C
Air Inlet/Fluid Outlet Size	1/4" NPT (f)
Wetted Parts	304 and 17-4 pH Stainless Steel, PTFE, Viton®, PEEK
Weight	24 kg (52.8 lb)

FITTINGS, HOSES & ACCESSORIES



COMPRESSION FITTINGS

Item Number	Description	Material/Color
 560714	Elbow 1/4" O.D. Tube x 1/8" NPT Male	Nylon/Natural
560748	Elbow 1/4" O.D. Tube x 1/4" NPT Male	Nylon/Natural
914	Elbow 3/8" O.D. Tube x 1/4" NPT Male	Nylon/Natural
 560714-BLACK	Elbow 1/4" O.D. Tube x 1/8" NPT Male	Polypropylene/Black
560748-BLACK	Elbow 1/4" O.D. Tube x 1/4" NPT Male	Polypropylene/Black
562367	Elbow 3/8" O.D. Tube x 1/4" NPT Male	Polypropylene/Black
562383	Elbow 1/2" O.D. Tube x 1/4" NPT Male	Polypropylene/Black
 560715	Straight 1/4" O.D. Tube x 1/8" NPT Male	Nylon/Natural
560656	Straight 1/4" O.D. Tube x 1/4" NPT Male	Nylon/Natural
7610	Straight 3/8" O.D. Tube x 1/8" NPT Male	Nylon/Natural
913	Straight 3/8" O.D. Tube x 1/4" NPT Male	Nylon/Natural
 560715-BLACK	Straight 1/4" O.D. Tube x 1/8" NPT Male	Polypropylene/Black
560656-BLACK	Straight 1/4" O.D. Tube x 1/4" NPT Male	Polypropylene/Black
7610BP	Straight 3/8" O.D. Tube x 1/8" NPT Male	Polypropylene/Black
913-BLACK	Straight 3/8" O.D. Tube x 1/4" NPT Male	Polypropylene/Black
562384	Straight 1/2" O.D. Tube x 1/4" NPT Male	Polypropylene/Black
 560657	Straight 1/4" O.D. Tube x 1/4" NPT Female	Nylon/Natural
560726	Straight 3/8" O.D. Tube x 1/4" NPT Female	Nylon/Natural
 562368	Straight 1/4" O.D. Tube x 1/4" NPT Female	Polypropylene/Black
562369	Straight 3/8" O.D. Tube x 1/4" NPT Female	Polypropylene/Black
 562370	Straight Coupling 1/4" O.D. Tube x 1/4" O.D. Tube	Polypropylene/Black
562371	Straight Coupling 1/4" O.D. Tube x 3/8" O.D. Tube	Polypropylene/Black
562372	Straight Coupling 3/8" O.D. Tube x 3/8" O.D. Tube	Polypropylene/Black
 562373	Tee Coupling 1/4" O.D. Tube	Polypropylene/Black
562374	Tee Coupling 3/8" O.D. Tube	Polypropylene/Black
 562375	Male Branch Tee Coupling 1/4" NPT x 1/4" O.D. Tube	Polypropylene/Black
562376	Male Branch Tee Coupling 1/4" NPT x 3/8" O.D. Tube	Polypropylene/Black
 562377	Bulkhead Connector 1/4" O.D. Tube	Polypropylene/Black
562378	Bulkhead Connector 3/8" O.D. Tube	Polypropylene/Black




LUER LOCK FITTINGS

Item Number	Description	Material/Color
 561821	Elbow Female Luer Lock x 1/8" NPT Male	Polypropylene/Natural
 561821-BLACK	Elbow Female Luer Lock x 1/8" NPT Male	Polypropylene/Black
 562321	Female Luer Lock Fitting x 1/8" NPT	Nylon/White
 5801451	Female Luer Lock Fitting x 1/4" NPT	Polypropylene/Black
 5801452	Female Luer Lock x Barb 3/32" I.D. Tubing	Acetal/White
 5801453	Male Luer Lock x Barb 3/32" I.D. Tubing	Acetal/White
 5801454	Female Luer Lock Coupling	Polypropylene/Natural
 561085	Female Luer Lock Fitting x Barb 5/32" I.D. Tubing	Polypropylene/Natural
 5601877	Female Luer Lock Fitting x Barb 3/16" I.D. Tubing	Nylon/White
 561086	Male Luer Lock Fitting x Barb 5/32" I.D. Tubing	Polypropylene/Natural
 560914	Male Luer Lock x 10-32 UNF	Polypropylene/Natural
 560936	Male Luer Lock x 1/4-28 UNF	Polypropylene/Natural
 561085N-BLACK	Female Luer Lock Fitting x Barb 5/32" I.D. Tubing	Nylon/Black
 561086N-BLACK	Male Luer Lock Fitting x Barb 5/32" I.D. Tubing	Nylon/Black
 560733N	Female Luer Lock x 1/4-28 UNF	Nylon/Natural
 560710	Luer Lock Cap Male	Polypropylene/Natural
 5801449	Male Luer Lock x 1/4" NPT Male	Polypropylene/Black
 5801450	Male Luer Lock x 1/4" NPT Male	Polypropylene/White
 560953	Male Luer Lock x 1/8" NPT Male	Nickel Plated Brass/ Silver
 5801420	Male Luer Lock x 1/4" NPT Male	Nickel Plated Brass/ Silver
 A-10001-OT	Male Luer Lock x 5/16-28 UN	Acetal/White






PLASTIC THREADED FITTINGS

Item Number	Description	Material/Color
 560734N	Reducer 1/4"-28 UNF Female x 1/4" NPT Male	Nylon/White
 561105	Street Elbow 1/4" NPT Female x 1/4" NPT Male	Polypropylene/ Natural







PLASTIC BARBED FITTINGS

Item Number	Description	Material/Color
 560906N	Tee Fitting 5/32" I.D. x 1/4" O.D. Tube	Nylon/White
 561402N	Barbed Elbow 1/8" I.D. Tube x 1/8" NPT Male	Nylon/Natural
 561401	Barbed Fitting 1/8" I.D. Tube x 1/8" NPT Female	Nylon/Natural














CARTRIDGE FITTINGS

Item Number	Description	Material/Color
 560546	Cartridge Adapter 1/4" NPT Female	Polyethylene/White
 EA910-TN	Snip Tip 90 ml Squeeze Tube Nozzle x 7/16"-20 UNC	LDPE/White
 561129	Cartridge Adapter 1/4" NPT x 5/8"-11 UNC	Acetal/White
 561129-SS	Cartridge Adapter 1/4" NPT x 5/8"-11 UNC	Stainless Steel
 562317	Cartridge Adapter 1/4" NPT x 13/16"-14 UNC	Acetal/Black








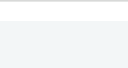
BAYONET FITTINGS

Item Number	Description	Material/Color
 2004BA	Female Quick Connect to Barb Fitting 5/32" I.D. x 1/4" O.D.	Acetal/Black
 561427H	Female Quick Connect to Barb Fitting 1/8" x 1/4" O.D.	Acetal/Black
 580057	Female Quick Connect x 1/4" NPT Male	Nylon/Black
 5606035	Male Quick Connect for 0.093" I.D. Tubing	Acetal/Black
 5601064	Male Quick Connect for 1/8" I.D. Tubing	Acetal/Black
 5601062	Hose Clamp 1/4" O.D. Tube	Steel/Silver


















PNEUMATIC PUSH FITTINGS & ACCESSORIES

Item Number	Description	Material/Color
 562381	Straight 1/4" O.D. Push Connector x 1/8" NPT Male	Nickel Plated Brass/Silver
 561694	Straight 1/4" O.D. Push Connector x 1/8" NPT Male	Nickel Plated Brass/Silver
 560746A	Straight 1/4" O.D. Push Connector x 1/4" NPT Male	Nickel Plated Brass/Silver
 561431A	1/4" O.D. Push Connector x 1/8" NPT Female	Nickel Plated Brass/Silver
 560725	Swivel Elbow 1/4" O.D. Push Connector x 1/8" NPT Male	Nickel Plated Brass/Silver
 562355	Swivel Elbow 5/32" O.D. Push Connector x M5 Male	Nickel Plated Brass & PBT/Black
 561964	Swivel Elbow 1/4" O.D. Push Connector x M5 Male	Nickel Plated Brass & PBT/Black
 560795	Push Connect Tee Fitting for 1/4" O.D. Tube	Nickel Plated Brass/Silver
 5779K712	Push Connect Air Fitting (1/4" O.D. Stem x 5/32" Tube O.D.)	Nylon/Black
 51495K173	1/4" O.D. Push to Connect Air Plug	Polybutylene/Black
 5606038	1/4" Stem x 5/32" Barb	Polypropylene/Green
 5606038BL	1/4" Stem x 5/32" Barb	Polypropylene/Blue
 5606038BK	1/4" Stem x 5/32" Barb	Polypropylene/Black













QUICK CONNECT SOCKETS & PLUGS

Item Number	Description	Material/Color
 560784	QC Socket (for 5/16" O.D. x 5/16" Plug) x 1/4" NPT Female	Zinc Plated Steel & Brass/Silver
 5601950	QC Socket (for 3/16" O.D. x 5/16" Plug) x 1/4" NPT Male	Brass/Gold
 5601951	QC Socket (for 3/16" O.D. x 5/16" Plug) x 1/4" NPT Female	Brass/Gold
 560785	5/16" O.D. x 5/16" Plug x 1/4" NPT Male	Zinc Plated Steel/Silver
 560703	5/16" O.D. x 5/16" Plug x 1/4" NPT Female	Zinc Plated Steel/Silver
 1283T24	3/16" O.D. x 5/16" Plug x 1/4" BSP Female	Zinc Plated Steel/Silver
 580108	3/16" O.D. x 5/16" Plug x 1/4" NPT Male	Zinc Plated Steel/Silver
 5801386	Hose Assembly 1/4" NPT Male x 1/4" NPT Female	NBR & Brass/Black









THREADED METAL FITTINGS

Item Number	Description	Material/Color
 560762	Straight 1/4" O.D. Compression Fitting x 1/4" NPT Male	Brass/Gold
 560716	Nipple 1/4" NPT Male	Brass/Gold
 560716SS	Nipple 1/4" NPT Male	Stainless Steel/Silver
 560614	Reducing Nipple 1/4" NPT Male to 1/8" NPT Male	Brass/Gold
 560719	Bushing 1/4" NPT Male x 1/8" NPT Female	Brass/Gold
 560924	Bushing 3/8" NPT Male x 1/4" NPT Female	Brass/Gold
 851-1410	Bushing 1/4" NPT Male x 1/8" NPT Female	Stainless Steel/Silver
 560727	Adapter 1/8" NPT Male x 1/4" NPT Female	Brass/Gold
 560727SS	Adapter 1/8" NPT Male x 1/4" NPT Female	Stainless Steel/Silver
 560634	1/4" NPT Female Coupling	Brass/Gold
 560747	Elbow 1/4" NPT Male x 1/4" NPT Female	Brass/Gold
 560747SS	Elbow 1/4" NPT Male x 1/4" NPT Female	Stainless Steel/Silver
 560945	Street T 1/4" NPT Male x 1/4" NPT Female	Brass/Gold
 560757	Hex Head Plug 1/4" NPT Male	Brass/Gold
 560758	Hex Head Plug 3/8" NPT Male	Brass/Gold
 560704	Straight Barbed Fitting 1/8" I.D. Tube x 1/4" NPT Male	Brass/Gold
 560737	Straight Barbed Fitting 1/4" I.D. Tube x 1/4" NPT Male	Brass/Gold
 560732	Barbed Elbow 1/8" I.D. Tube x 1/8" NPT Male	Brass/Gold
 560713	Barbed Elbow 1/8" I.D. Tube x 1/4" NPT Male	Brass/Gold
 560724SS	Elbow 1/4" NPT Male x 1/4" NPT Male	Stainless Steel/Silver
 560729	Elbow 1/8" NPT Male x 1/8" NPT Female	Brass/Gold

PRESSURE REGULATORS & GAUGES

Item Number	Description	Style
 560779	Pressure Regulator 0 - 100 psi (2 x 1/4" NPT and 2 x 1/8" NPT)	Free Standing
 560571	Pressure Regulator 0 - 25 psi (2 x 1/4" NPT and 2 x 1/8" NPT)	Free Standing
 5601903	Pressure Regulator 0 - 100 psi (4 x 1/8" NPT)	Panel Mount
 5601988	SMC IR Series Precision Pressure Regulator (2 x 1/4" NPT, 2 x 1/8" NPT)	Panel Mount
 5601891	SMC IR Series Precision Pressure Regulator (4 x 1/8" BSP)	Panel Mount
 5601902	Pressure Gauge 0 - 100 psi - Barb 4 mm I.D Tubing	Panel Mount
 560934B	Pressure Gauge 0 - 100 psi - 1/8" NPT	Back Mount
 560611	Pressure Gauge 0 - 30 psi - 1/8" NPT	Bottom Mount
 561193B	Pressure Gauge 0 - 15 psi - 1/8" NPT	Panel Mount
 561871B	Vacuum Gauge 0 - 30 psi - 1/8" NPT	Panel Mount
 5601972	Digital Pressure Gauge 0 - 100 psi (24V DC)	Panel Mount
 5601983	Digital High Precision Pressure Gauge 0 - 145 psi (Battery Operated)	Back Mount

PRESSURE RELIEF & BALL VALVES

Item Number	Description	Material/Color
 560763	Pressure Relief Valve 100 psi Max - 1/4" NPT	Brass
 5601982	Pressure Relief Valve 100 psi Max - 1/4" BSP	Brass
 560949	Slide Air Valve - 1/4" NPT Male x 1/4" NPT Female	Brass
 5601984	On/Off Ball Valve - 1/2" BSP Female x 1/2" BSP Female	Stainless Steel
 560756	On/Off Ball Valve - 1/4" NPT Female x 1/4" NPT Female	Brass
 5601985	On/Off Ball Valve - 1/4" NPT Female x 1/4" NPT Female	Stainless Steel
 5601986	On/Off Ball Valve - 1/4" NPT Male x 1/4" NPT Female	Stainless Steel
 5601987	On/Off Ball Valve - 1/8" NPT Female x 1/8" NPT Female	Stainless Steel

AIR MANIFOLD

Air manifolds provide the capacity of connecting up to four valves to one dispenser.

Item Number	Description
560057	4 Port Air Manifold (1/4" Tube)
51495K173	1/4" O.D. Push to Connect Air Plug



TUBE FLUID MANIFOLD

Fluid manifolds provide the capability of supplying material from one reservoir to up to four valves. Suitable for 1/4" or 3/8" tubing.

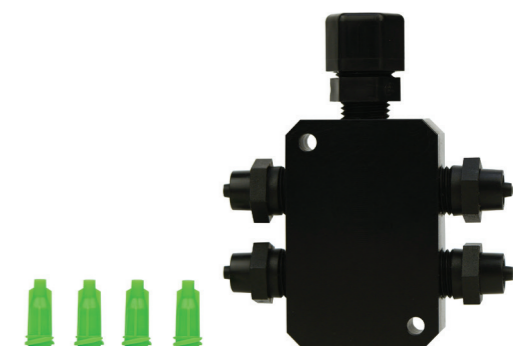
Item Number	Description
560542-1/4	4 Port Fluid Manifold (1/4" Tube)
560542-3/8	4 Port Fluid Manifold (3/8" Tube)
EA4P	Threaded Square Plug PE



LUER LOCK FLUID MANIFOLD

Fluid manifolds provide the capability of supplying material from one reservoir to up to four valves. Suitable for use with 1/4" or 3/8" O.D. fluid feed tubing.

Item Number	Description
560542LL	4 Port Fluid Manifold (Luer Lock)
8001039	Pointed Tip Cap
913-BLACK	Straight 3/8" O.D. Tube x 1/4" NPT Male
560656-BLACK	Straight 1/4" O.D. Tube x 1/4" NPT Male
5801449	Male Luer Lock x 1/4" NPT Male Adapter



MUFFLERS FOR BENCHTOP CONTROLLERS

Mufflers filter air output up to 0.5 microns and provide muffling of exhaust air where reduced operating noise is required.

Item Number	Description
560024	Clean Room Filter Muffler (1/4" O.D.) for use with DC50 and DC50 MAX controllers.
560024-DCHF	High Flow Clean Room Muffler (10-32 UNF) for use with DC100 MAX controllers



AIR FILTER REGULATOR

Air filter regulator assembly is designed to remove moisture and particulates from compressed air sources up to 5 microns. Recommended for use with Fisnar controllers and reservoirs.

Item Number	Description
560567M	5 Micron Air Filter



AIR FILTER REGULATOR WITH COALESCER

Air filter regulator assembly with coalescer provides extra filtration for capturing remaining moisture and oils up to 5 microns. Generally suggested when dispensing cyanoacrylate adhesives.

Item Number	Description
560567MC	5 Micron Air Filter Regulator Assembly with Coalescer



Spare Parts

Item Number	Description
	560924 Bushing 3/8" NPT Male x 1/4" NPT Female
	560716 Nipple 1/4" NPT Male
	560737 Straight Barbed Fitting 1/4" I.D. Tube x 1/4" NPT Male
	560738 Hose Clip
	560746A Straight 1/4" O.D. Push Connector x 1/4" NPT Male
	560934M Pressure Gauge 0 - 160 psi - 1/8" BSP Side Mount
	560567M-RF 5 Micron Filtering Element
	560567M-CF Coalescing Filter Element
	560567M-CO Coalescing Filter (Depurator) Assembly

AIR PRESSURE REGULATOR

Pressure regulator for cartridge reservoirs and syringes when constant pressure is required.

Item Number	Description
560779MSK	Air Regulator Assembly for Syringe Barrel Adapter



PRECISION AIR PRESSURE REGULATOR & DIGITAL GAUGE ASSEMBLY

Digital gauge for easy reading.

Item Number	Description
5602006-SK	Air Regulator Assembly for Syringe Barrel Adapter











Spare Parts

Item Number	Description
	560746A Straight 1/4" O.D. Push Connector x 1/4" NPT Male
	561694 Straight 1/4" O.D. Push Connector x 1/8" NPT Male
	5779K712 Push Connect Air Fitting (1/4" stem x 5/32" Tube O.D.)
	560934M Pressure Gauge 0 - 160 psi - 1/8" BSP Side Mount
	5602006 SMC IR Series Precision Pressure Regulator (4 x 1/8" NPT)
	5601983 Digital High Precision Pressure Gauge (0 - 145 psi) (Battery Operated)
	5602004 Ball valve 1/8 FPT x 1/8 MPT

TUBING

Fluid tubing is available in a range of sizes, colors, and materials for a variety of dispensing requirements. Bulk roll sizes also available.

	Item Number	Descriptions	Material/Color
	560722-10FT	0.250" O.D. x 0.188" I.D. Tubing	PTFE/Natural
	5601060-10FT	1/4" O.D. x 1/8" I.D. Tubing	PVC/Clear
	560750-10FT	3/8" O.D. x 3/16" I.D. Tubing	PVC/Clear
	5801060-10FT	1/4" O.D. x 0.160" I.D. Tubing	Polyurethane/Clear
	560705-10FT	1/4" O.D. x 0.145" I.D. Tubing	Polyurethane/White
	561400-10FT	1/4" O.D. x 1/8" I.D. Tubing	Polyurethane/Blue
	562385-10FT	1/2" O.D. x 0.33" I.D. Tubing	Polyurethane/Blue
	5606030-100FT	0.152" O.D. x 0.093" I.D. Tubing	Polyurethane/Clear
	561415-IJ-10FT	1/4" O.D. x 0.170" I.D. Tubing	Polyethylene/Natural
	561416-10FT	3/8" O.D. x 1/4" I.D. Tubing	Polyethylene/Natural
	560743-10FT	1/4" O.D. x 0.170" I.D. Tubing	Polyethylene/Black
	560744-10FT	3/8" O.D. x 1/4" I.D. Tubing	Polyethylene/Black
	562066-10FT	6 mm O.D. x 4 mm I.D. Tubing	Polyethylene/Natural



ROBOTS & ACCESSORIES



F1300N.2 ROTARY DISPENSING TABLE

The F1300N.2 rotary table provides a simple and efficient method of dispensing a circular pattern on areas that can sometimes be difficult to access. The Z-axis tilt is easily and quickly adjustable for controlled rotary dispensing at a fixed angle onto a cylinder's vertical outside, inside, or top surface.

Alternatively, the machine can be configured into an index mode, whereby multiple parts can be positioned equally distanced apart from each other in a single circular pattern. When initiated, the machine will dispense onto a component in a fixed position, and when complete will rotate at a fixed indexing angle in order to dispense onto the next part.

Suitable for dispensing adhesives, silicones, greases, and lubricants, the F1300N.2 is versatile in controlling dispensing from barrels, cartridges, dispense valves or spray valves.

The fully programmable intuitive touchscreen user display allows dispense parameters (i.e. dispense angle, pre and post dispense time, and rotation speed) and machine settings to be quickly changed and simultaneously viewed on the home screen.



Item Number	Description
F1300N.2	Rotary Table

FEATURES

- Multilingual touch screen LCD display for easy set up and operation
- 0 - 100 psi fluid pressure regulator & gauge
- 9 programmable memory slots
- 3 operation modes (Standard, Pulse, and Index)
- 6 channel I/O circuit
- Password-protected operator lock-out
- Dispense cycle counter & limit
- Auto Cycle function
- Worldwide compatible power supply

BENEFITS

- Precision regulator and gauge for controlling dispense pressure inside syringe barrels or cartridges. Alternatively used for actuating air pressure signal to a dispense valve
- Dispense signal can be sent to an external dispense controller if being used instead
- Static mode for fixing Z-axis cylinder drive movement in fluid jetting applications
- Easy integration of safety relay and light curtain / door switch when conforming to CE safety regulations
- Fully programmable for accurate dispensing

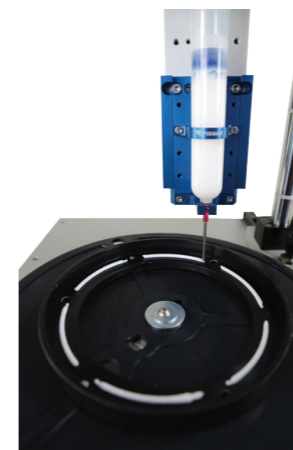
SPECIFICATIONS

Item Number	F1300N.2
Cycle Initiation	Manual or Automatic
Vertical Travel	50 mm (2")
Rotation Speed	0 - 60 rpm
Air Input	70 - 100 psi (5 - 7 bar)
Air Output	1 - 100 psi (5 - 7 bar)
Dimensions (WxDxH)	350 x 482 x 575 mm (13.8 x 19 x 22.6")
Work Load	2 kg (4.4 lb)
Tool Load	10 kg (22 lb)
Working Area (Diameter)	300 mm (12")
Weight	15.5 kg (34.2 lb)
Approvals	CE, RoHS, WEEE



OPERATION MODES

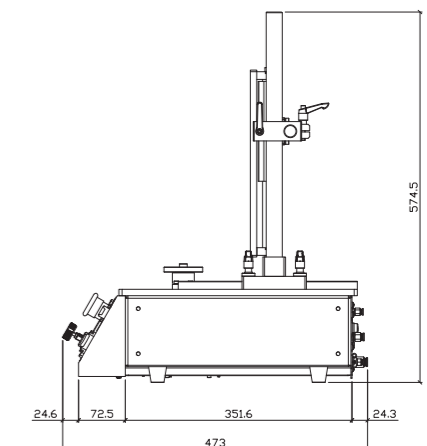
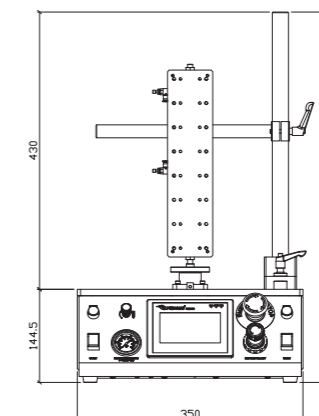
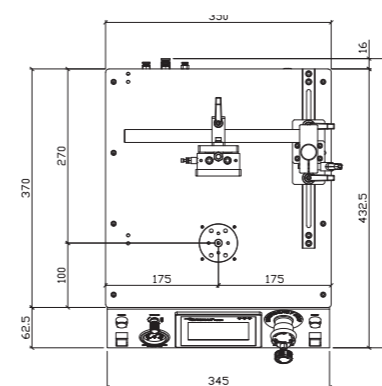
Sequence



Index



Timed



F4200N.2 COMPACT BENCHTOP ROBOT

The F4200N.2 is a compact, ergonomic, and economically priced benchtop robot, designed to support most light-duty entry level dispensing applications which require a high performance standard.

Programming the F4200N.2 robot is simple with the included teach pendant and user-friendly proprietary software. This allows a sophisticated dispensing operation to be created and operational in minutes.

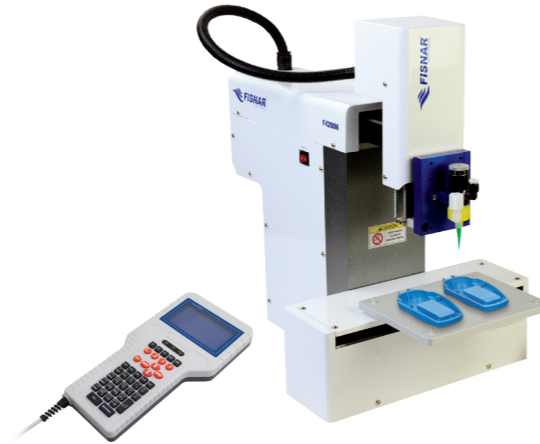
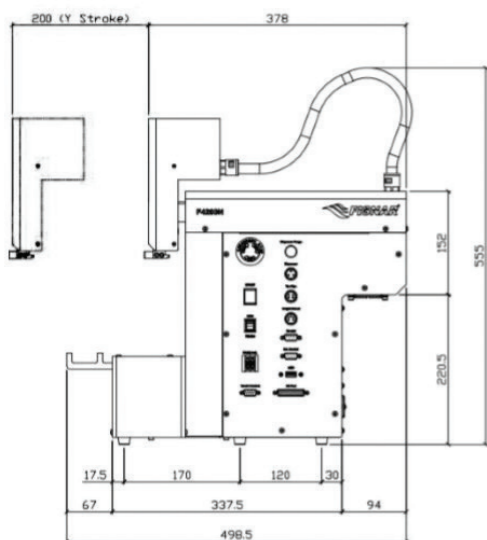
The optional automatic tip-alignment and height detect device further improve machine performance by increased productivity and process control.

The F4200N.2 robot can be supplied individually or as a complete stand-alone machine system by integrating into a safety enclosure.*

**Required to conform to European CE safety regulations (Machinery Directive 2006/42/EC).*

FEATURES

- Repeatability +/- 0.02 mm
- Small footprint for bench space reduction
- Step and repeat functionality
- USB port for data transfer and back up
- Optional PC programming



Item Number	Description
F4200N.2	Compact Benchtop Robot

SPECIFICATIONS

Item Number	F4200N.2
Working Area (X/Y/Z)	200 x 200 x 50 mm
Maximum Speed (X&Y/Z)	500 / 200 mm / secs
Work Load	3 kg
Tool Load Z-Axis	2 kg
Repeatability	+/- 0.02 mm / axis
Resolution	0.001 mm / axis
Motion Control	PTP & CP
Drive System	Micro stepping motors
Data Memory	1 - 100 programs 50,000 points/program
I/O Signals	8 inputs / 8 outputs
External Interface	USB / RS232
Power Supply	Auto-switching AC 100 - 240 VAC, 320 watts
Dimensions (WxDxH)	324 x 499 x 480 mm (12.75 x 19.7 x 18.9")
Weight	17 kg (37.5 lb)
Approvals	CE, RoHS, WEEE



F4000 ADVANCE SERIES 3-AXIS ROBOTS

Fisnar F4000 ADVANCE 3-axis benchtop robots are designed to ensure precise fluid placement and positioning. When configured with a syringe, cartridge, or valve system, a high level of accuracy and repeatability is achieved. Specifically built for fluid dispensing processes, the F4000 ADVANCE proprietary robot software is user friendly and enables the creation of complex dispensing routines (dots, lines, circles, arcs, and fills) that can be set up and operational in just minutes using the included teach pendant.

The proprietary windows programming software allows for DXF files to be imported into the software and dispense lines or dots quickly created from the imported CAD data. This feature dramatically reduces programming time for complex dispense patterns or when there is a high number of dispense positions.

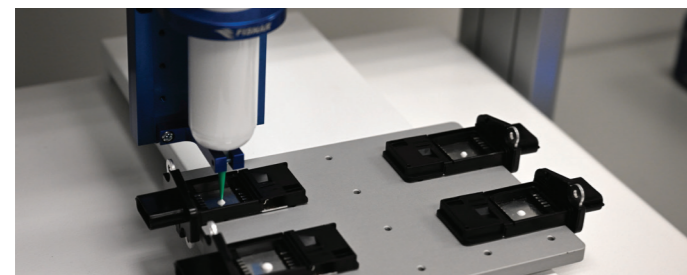
F4000 ADVANCE series robots can be supplied individually or as a complete stand-alone machine system by integrating into a safety enclosure.*

*Required to conform to European CE safety regulations (Machinery Directive 2006/42/EC).



Models

Item Number	Description
F4303N ADVANCE	3-Axis Robot 300x300x100 mm Work Area
F4403N ADVANCE	3-Axis Robot 400x400x100 mm Work Area
F4503N ADVANCE	3-Axis Robot 500x500x150 mm Work Area
F4603N ADVANCE	3-Axis Robot 600x500x150 mm Work Area



FEATURES

- Modular connectivity for easy installation of accessories at any time such as the CCD vision kit, tip-alignment, or height sensor
- USB port for data transfer and back up
- Program selector switch and fluid purge button
- True 3D interpolation and simultaneous motion control

BENEFITS

- High positional accuracy improves dispense results
- Proprietary user-friendly software allows programs to be easily viewed, adjusted, and stored offline
- Increased productivity due to faster cycle times and less rejects
- Teach pendant included for easy programming

F4000 ADVANCE SERIES 3-AXIS ROBOTS

SPECIFICATIONS

Item Number	F4303N ADVANCE	F4403N ADVANCE	F4503N ADVANCE	F4603N ADVANCE
Maximum Working Area (X/Y/Z)	300 x 300 x 100 mm (12 x 12 x 4")	400 x 400 x 100 mm (16 x 16 x 4")	500 x 500 x 150 mm (20 x 20 x 6")	600 x 500 x 150 mm (24 x 20 x 6")
Maximum Speed (X&Y/Z)	800 / 320 mm / secs (31 / 13" / secs)			
Work Load	10 kg (22 lb)			
Tool Load	5 kg (11 lb)			
Repeatability	+/- 0.008 mm*			
Motion Control	PTP and CP			
Drive System	3-phase micro stepping motors			
Data Memory	1 - 100 programs 1 - 50,000 points / program			
I/O Signals	8 inputs / 8 outputs			
External Interface	USB / RS232			
Power Supply	Auto-switching AC 100 - 240 VAC, 320 watts			
Dimensions (WxDxH)	490 x 517 x 645 mm (19 x 20 x 25")	590 x 617 x 645 mm (23 x 24 x 25")	690 x 717 x 815 mm (27 x 28 x 32")	810 x 717 x 815 mm (32 x 28 x 32")
Weight	34.5 kg (76 lb)	42.5 kg (94 lb)	47.5 kg (105 lb)	49kg (108 lb)
Approvals	CE, RoHS, WEEE			

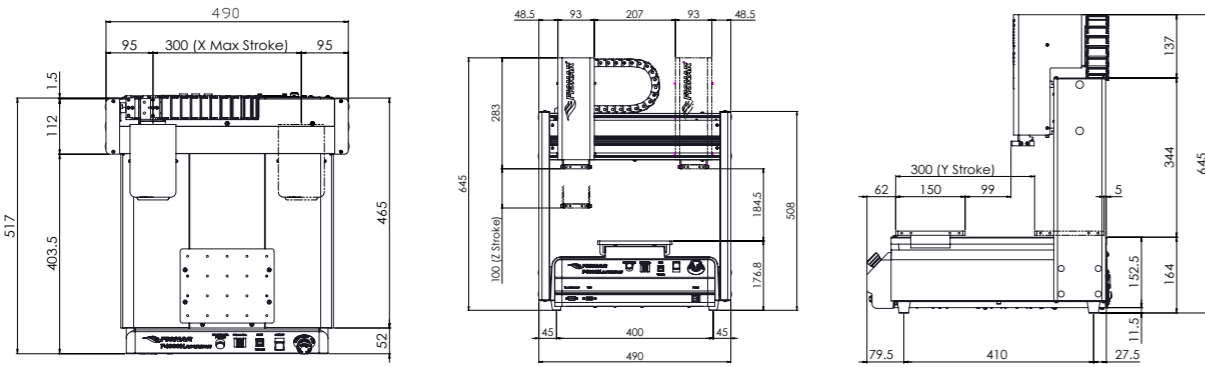
*Repeatability value may vary depending on measurement method.

F4000 ADVANCE 3-axis benchtop robots are now supplied with an integrated pneumatic interface system, which allows pneumatically operated valves and syringe barrel or cartridge pressure lines to be quickly and safely installed onto the robot. Additional support brackets on the side pillar of the robot prevents pressure and fluid lines interfering with the working environment of the robot and allows them to be safely guided away from the robot. The upper back panel of the robot also features threaded holes to allow simple and convenient mounting of any additional ancillary equipment.

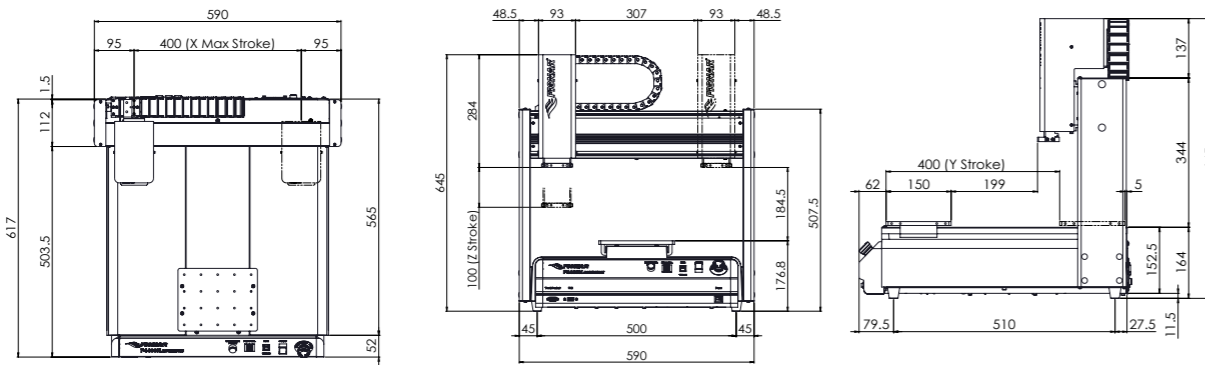


F4000 ADVANCE SERIES 3-AXIS ROBOT DIMENSIONS

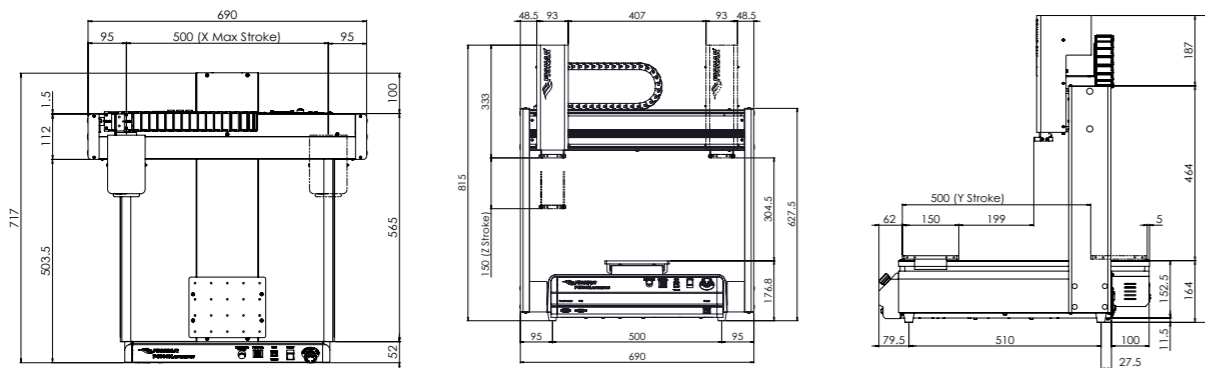
F4303N ADVANCE



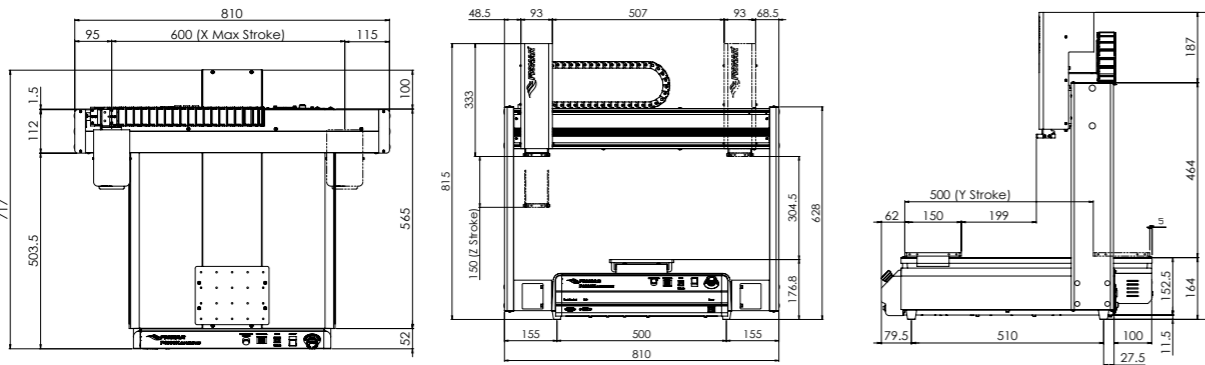
F4403N ADVANCE



F4503N ADVANCE



F4603N ADVANCE



ROBOTS

F4000 ELITE SERIES 3-AXIS ROBOTS

Fisnar F4000 ELITE 3-axis benchtop robots are designed to offer the highest level of precise automated fluid placement and positioning.

The CCD camera vision system and optional laser height sensor allow the system to automatically adjust for changes in part position/orientation and height.

Specifically built for fluid dispensing processes, the F4000 ELITE proprietary robot vision software is user friendly and enables the set-up and running of complex dispensing routines to be created easily.

The additional auxiliary camera allows for real-time viewing, image capturing, and recording of the dispense path.



Models

Additional functionality features such as CAD import and an offline measuring tool to further improve the user's control of the dispensing process.

F4000 ELITE series robots can be supplied individually or as a complete stand-alone machine by integrating into a safety enclosure.

**Required to conform to European CE safety regulations (Machinery Directive 2006/42/EC).*

Item Number	Description
F4303N ELITE	3-Axis Robot - 300x300x100 mm Work Area (With Vision System Only)
F4303N-IL ELITE	3-Axis Robot - 300x300x100 mm Work Area (With Vision System and IL-030 Laser Height Sensor)
F4303N-LK ELITE	3-Axis Robot - 300x300x100 mm Work Area (With Vision System and LK-G32 Laser Height Sensor)
F4403N ELITE	3-Axis Robot - 400x400x100 mm Work Area (With Vision System Only)
F4403N-IL ELITE	3-Axis Robot - 400x400x100 mm Work Area (With Vision System and IL-030 Laser Height Sensor)
F4403N-LK ELITE	3-Axis Robot - 400x400x100 mm Work Area (With Vision System and LK-G32 Laser Height Sensor)

FEATURES

- Dual linear guide and ball screw drive mechanism
- Servomotor drive control with closed loop encoder feedback
- CCD vision camera and PC kit with automated tip-alignment included
- Optional laser height detect kit
- Fiducial recognition system
- Real-time preview and recording of dispense path
- Process functionality tools such as CAD import, measuring, and image capture/recording

BENEFITS

- Highest level of positional repeatability +/- 0.003 mm improves dispense results
- Proprietary user-friendly camera vision software ensures a quicker and easier learning curve for users to set-up dispense programs
- Increased productivity due to faster cycle times and less rejects
- More precise and accurate dispense results regardless of dimensional variations of component parts
- Improved process control and quality due to additional software functionality tools

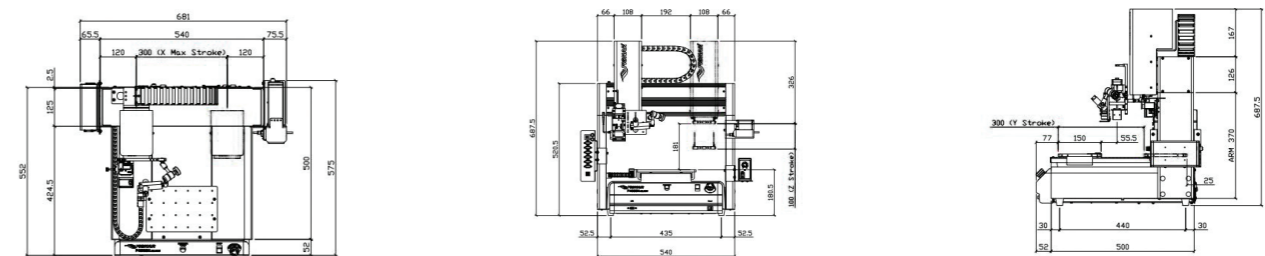
F4000 ELITE SERIES 3-AXIS ROBOTS

SPECIFICATIONS

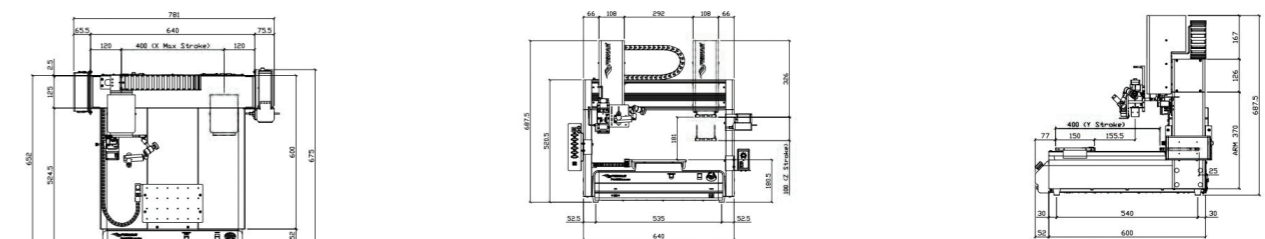
Item Number	F4303N ELITE, F4303N-IL ELITE and F4303N-LK ELITE	F4403N ELITE, F4403N-IL ELITE, and F4403N-LK ELITE
Maximum Working Area (X/Y/Z)	300 x 300 x 100 mm (12 x 12 x 4")	400 x 400 x 100 mm (16 x 16 x 4")
Maximum Speed (X&Y/Z)	800 / 250 mm / secs	
Work Load	25 kg (55 lb)	
Tool Load	6 kg (13 lb)	
Repeatability	+/- 0.003 mm*	
Motion Control	PTP and CP	
Drive System	Servo Motor	
Data Memory	PC Storage	
I/O Signals	8 inputs / 8 outputs	
External Interface	USB / RS232	
Power Supply	Auto-switching AC 100 - 240 VAC, 320 watts	
Dimensions (WxDxH)	681 x 575 x 687.5 mm (27 x 23 x 27")	781 x 675 x 687.5 mm (31 x 26.5 x 27")
Weight	49 kg (108 lb)	54 kg (119 lb)
Approvals	CE, RoHS, WEEE	

**Repeatability value may vary depending on measurement method.*

F4303N ELITE, F4303N-IL ELITE, AND F4303N-LK ELITE



F4403N ELITE, F4403N-IL ELITE, AND F4403N-LK ELITE



F4000 ADVANCE SERIES 4-AXIS ROBOTS

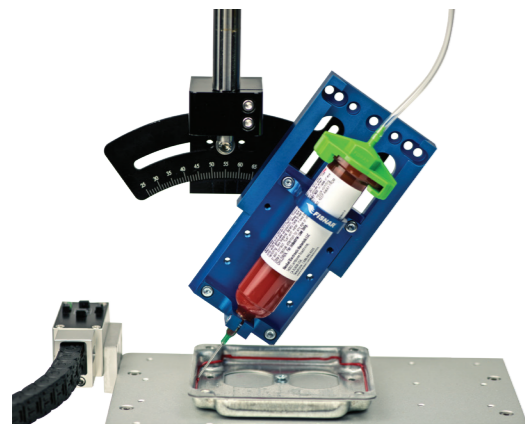
Fisnar F4000 ADVANCE series 4-axis benchtop robots are designed to ensure precise fluid placement and positioning.

Specifically made for fluid dispensing processes, the F4000 ADVANCE proprietary robot software is user friendly and enables the creation of complex dispensing routines (dots, lines, circles, arcs, and fills) that can be set up and operational in just minutes using the teach pendant (included).

The additional R-axis allows rotational movement for dispensing at a fixed angle around a 360° plane. This allows access to hard-to-reach areas and vertical surfaces.

F4000 ADVANCE series robots can be supplied individually or as a complete stand-alone system by integrating into a safety enclosure.*

**Required to conform to European CE safety regulations (Machinery Directive 2006/42/EC).*



FEATURES

- Integral tip position adjustment routine
- USB port for data transfer and back-up
- Program selector switch and fluid purge button
- True 3D interpolation and simultaneous motion control
- Modular connectivity design for the simple installation of auto tip alignment module and height detect system

BENEFITS

- High positional accuracy improves dispense results
- Proprietary user-friendly software allows programs to be easily and quickly set up using the teach pendant
- Increased productivity due to faster cycle times and less rejects

Models	
Item Number	Description
F4304N ADVANCE	4-Axis Robot 300x300x150 mm Work Area
F4404N ADVANCE	4-Axis Robot 400x400x150 mm Work Area
F4504N ADVANCE	4-Axis Robot 500x500x150 mm Work Area
F4604N ADVANCE	4-Axis Robot 600x500x150 mm Work Area

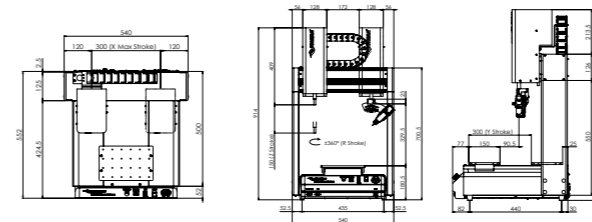
F4000 ADVANCE SERIES 4-AXIS ROBOTS

SPECIFICATIONS

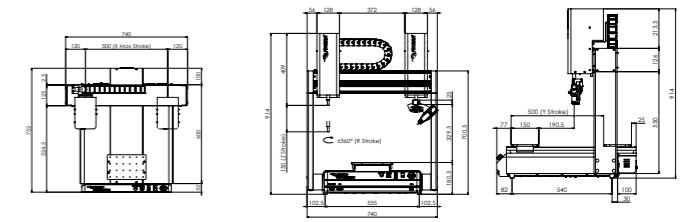
Item Number	F4304N ADVANCE	F4404N ADVANCE	F4504N ADVANCE	F4604N ADVANCE
Maximum Working Area (X/Y/Z)	300 x 300 x 150 mm (12 x 12 x 6")	400 x 400 x 150 mm (16 x 16 x 6")	500 x 500 x 150 mm (20 x 20 x 6")	600 x 500 x 150 mm (24 x 20 x 6")
Max Working Area (R)	+/- 720°			
Maximum Speed (X&Y/Z)	800 / 320 mm / secs (31 / 13" / secs)			
Maximum Speed (R)	720° / secs			
Work Load	10 kg (22 lb)			
Tool Load	5 kg (11 lb)			
Repeatability	+/- 0.008 mm*			
Motion Control	PTP & CP			
Drive System	3-phase micro stepping motors			
Data Memory	1 - 100 programs 1 - 50,000 points / program			
I/O Signals	8 inputs / 8 outputs			
External Interface	USB / RS232			
Power Supply	Auto-switching AC 100 - 240 VAC, 320 watts			
Dimensions (WxDxH)	540 x 552 x 914 mm (21 x 22 x 36")	640 x 652 x 914 mm (25 x 30 x 36")	740 x 752 x 914 mm (29 x 30 x 36")	860 x 752 x 914 mm (32 x 30 x 36")
Weight	49.5 kg (109 lb)	57 kg (126 lb)	62.5 kg (138 lb)	66.5 kg (146 lb)
Approvals	CE, RoHS, WEEE			

**Repeatability value may vary depending on measurement method.*

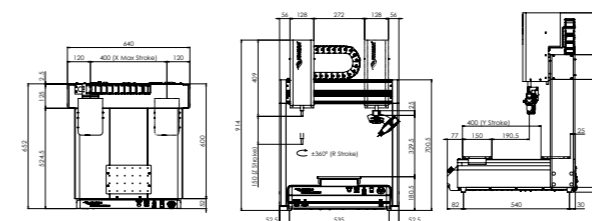
F4304N ADVANCE



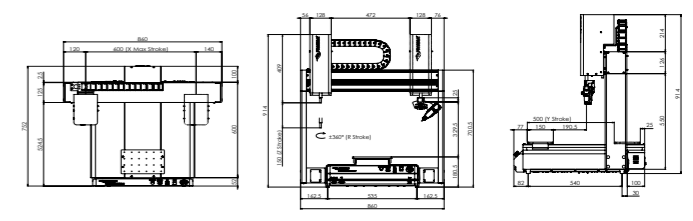
F4504N ADVANCE



F4404N ADVANCE



F4604N ADVANCE



F4505N ADVANCE 5-AXIS ROBOT

The F4000 ADVANCE is a 5-axis benchtop that provides a rotational B-axis and horizontal U-axis for applying sealants and adhesives on curved, vertical, or hard-to-reach surfaces.

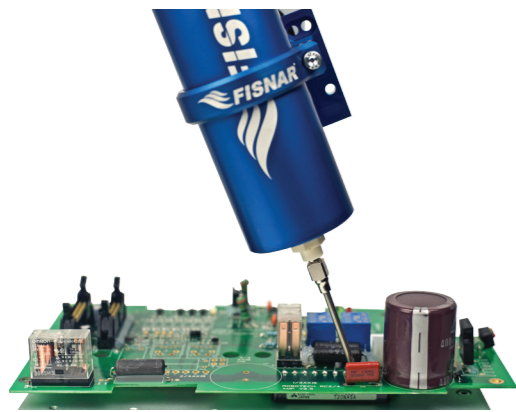
Its proprietary robot software is user friendly and enables the creation of complex dispensing routines in minutes including dots, lines, circles, arcs, and fills.

The 5-axis simultaneous positioning is also ideal for dispensing around ledges, lips, and inside channels with form-in-place gasketing materials or staking/ruggedizing electrical components on a PCB with a silicone RTV material. The F4505N ADVANCE robot can be supplied individually or as a complete stand-alone machine system by integrating into a safety enclosure.*

*Required to conform to European CE safety regulations (Machinery Directive 2006/42/EC).



Item Number	Description
F4505N ADVANCE	5-Axis Robot 500x500x150 mm Work Area



FEATURES

- Integral tip position adjustment routine
- USB port for data transfer and back-up
- Program selector switch and fluid purge button
- True 3D interpolation and simultaneous motion control
- Modular connectivity design for the simple installation of productivity enhancement tools

BENEFITS

- High positional accuracy improves dispense results
- Proprietary user-friendly robot software allows programs to be easily and quickly set up using the teach pendant or PC
- Increased productivity due to faster cycle times and less rejects

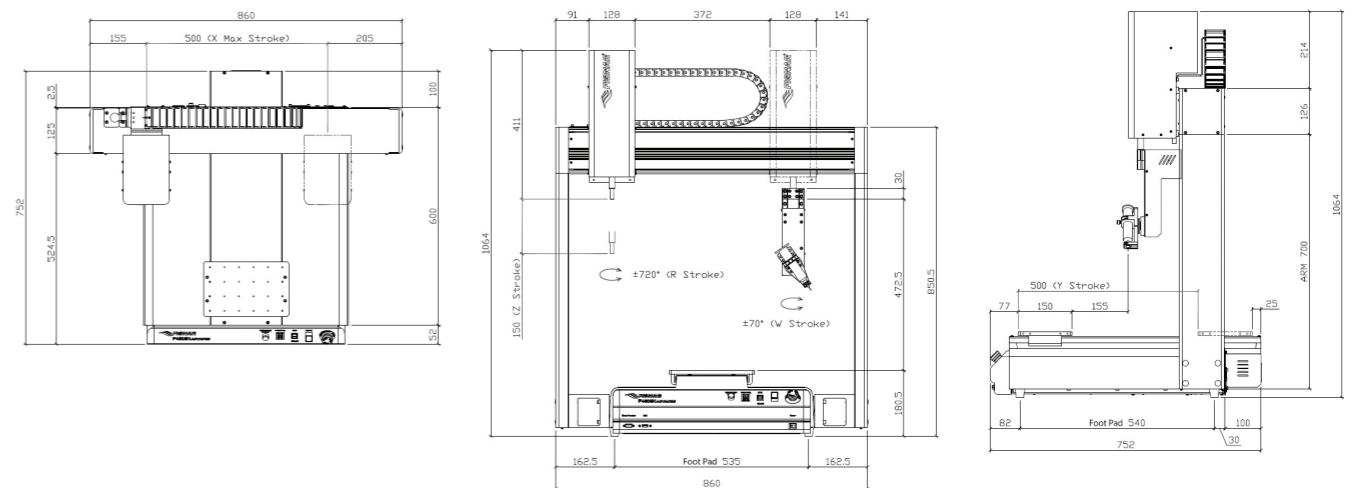
F4505N ADVANCE 5-AXIS ROBOT

SPECIFICATIONS

Item Number	F4505N ADVANCE
Maximum Working Area (X/Y/Z)	500 x 500 x 150 mm (20 x 20 x 6")
Max Working Area (R)	+/- 720°
Max Working Area (W)	+/- 70°
Maximum Speed (X&Y/Z)	800 / 320 mm / secs (31 / 13" / secs)
Maximum Speed (R)	720° / secs
Maximum Speed (W)	360° / secs
Work Load	10 kg (22 lb)
Tool Load	1 kg (2.2 lb)
Repeatability	+/- 0.008 mm*
Motion Control	PTP & CP
Drive System	5-phase micro stepping motors
Data Memory	1 - 99 programs 1 - 50,000 points / program
I/O Signals	8 inputs / 8 outputs
External Interface	USB / RS232
Power Supply	Auto-switching AC 100 - 240 VAC, 320 watts
Dimensions (WxDxH)	860 x 752 x 1,065 mm (34 x 30 x 42")
Weight	69.5 kg (153 lb)
Approvals	CE, RoHS, WEEE

*Repeatability value may vary depending on measurement method.

F4505N ADVANCE



F4000 ADVANCE SERIES DUAL TABLE ROBOTS

F4000 ADVANCE dual table benchtop robots are designed to ensure precise fluid placement and positioning.

The unique dual-table design allows for high speed manufacturing due to the elimination of part changeover and loading time. This is made possible with the removal of finished parts and the loading of new parts on the fixture of one table, while the other table is being processed by the robot.

Furthermore, the dual-table design provides users the option to carry out two different dispensing routines sequentially, thus eliminating the requirement for batch production.

F4000 ADVANCE series robots can be supplied individually or as a complete stand-alone machine system by integrating into a safety enclosure.*

*Required to conform to European CE safety regulations (Machinery Directive 2006/42/EC).



Models

Item Number	Description
F4553N ADVANCE	3-Axis Robot 500x500x100 mm Work Area
F4554N ADVANCE	4-Axis Robot 500x500x150 mm Work Area



FEATURES

- Unique dual-table design for high speed manufacturing
- USB port for data transfer and back-up
- Program selector switch and fluid purge button
- True 3D interpolation and simultaneous motion control
- Modular connectivity interface for simple attachment of auto tip alignment module.

BENEFITS

- Dual-table design increases production rates
- Independent control of each table
- High positional accuracy improves dispense results
- Proprietary user-friendly robot software allows programs to be easily and quickly set up using the teach pendant
- Increased productivity due to faster cycle times and less rejects

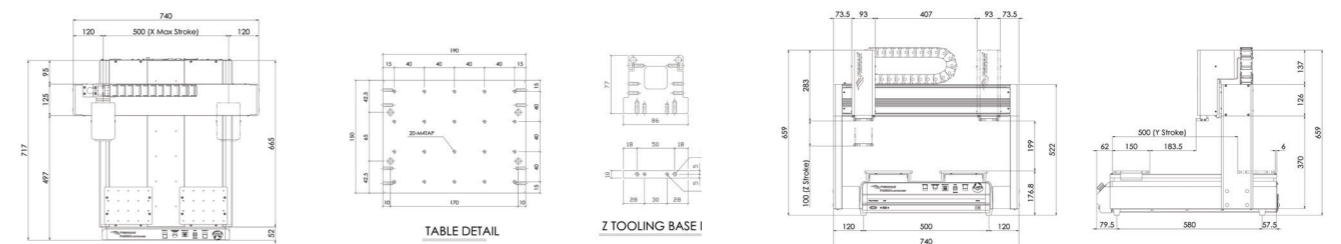
F4000 ADVANCE SERIES DUAL TABLE ROBOTS

SPECIFICATIONS

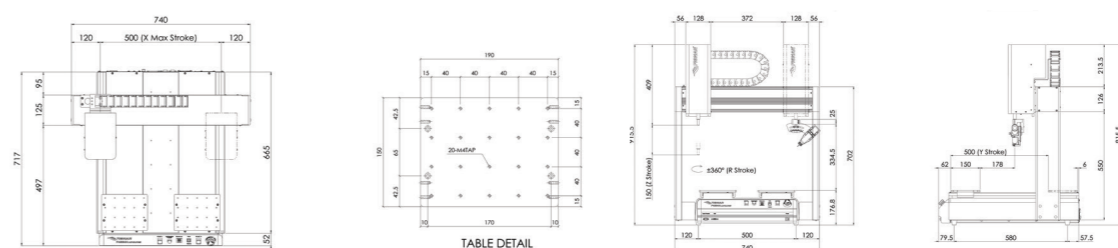
Item Number	F4553N ADVANCE	F4554N ADVANCE
Maximum Working Area (X/Y/Z)	500 x 500 x 100 mm (20 x 20 x 4")	500 x 500 x 150 mm (20 x 20 x 6")
Maximum Working Area (R)	N/A	+/- 720°
Maximum Speed (X&Y/Z)	800 / 320 mm / secs (31 / 13" / secs)	
Maximum Speed (R)	N/A	720° / secs
Work Load	10 kg (22 lb)	
Tool Load	5 kg (11 lb)	
Repeatability	+/- 0.008 mm*	
Motion Control	PTP & CP	
Drive System	3-phase micro stepping motors	
Data Memory	1 - 100 programs 1 - 50,000 points / program	
I/O Signals	8 inputs / 8 outputs	
External Interface	USB / RS232	
Power Supply	Auto-switching AC 100 - 240 VAC, 320 watts	
Dimensions: (WxDxH)	740 x 717 x 659 mm (30 x 28 x 26")	740 x 717 x 916 mm (30 x 28 x 36")
Weight	62.5 kg (138 lb)	66.5 kg (147 lb)
Approvals	CE, RoHS, WEEE	

*Repeatability value may vary depending on measurement method.

F4553N ADVANCE



F4554N ADVANCE



F7403N-HD ADVANCE HEAVY DUTY ROBOT

The F7403N-HD ADVANCE heavy duty robot is designed for precise fluid placement and positioning when dispensing onto large and heavy size parts.

A 20 kg Z-axis payload with safety brake mechanism enables heavy dispense equipment to be mounted, without effecting robot durability or performance. The 36Kg work load and increased Z-clearance ensure the robot is capable of handling large and heavy parts.

The proprietary teach pendant robot software is user friendly and enables the creation of complex dispensing routines (dots, lines, circles, arcs, and fills) to be set up and operational in minutes.

A supplementary windows programming software allows 2D DXF files to be imported into the software and have dispense lines, dots, or circles quickly created from the imported CAD data. This feature dramatically reduces programming time for complex dispense patterns.

The F7403N-HD ADVANCE can be supplied on its own or as an integrated machine system in a safety enclosure.*

**Required to conform to European CE safety regulations (Machinery Directive 2006/42/EC).*



FEATURES

- Working area up to 400 x 400 mm
- Axis repeatability +/- 0.05 mm
- 36 kg Work load
- 20 kg Z-Axis payload
- Z-axis motor brake mechanism
- Dual linear guide & ball screw drive mechanism
- Servo motor drive system, with closed loop encoder feedback
- Modular connectivity interface
- USB port for program data transfer & back up
- Program selector switch and fluid purge button
- Teach pendant included for easy programming

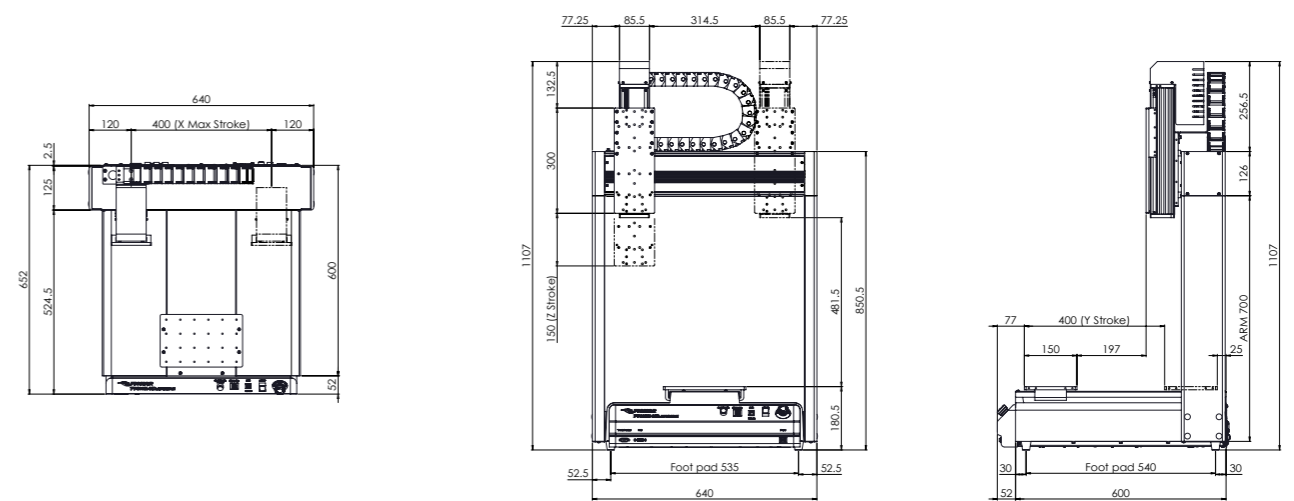
BENEFITS

- High positional accuracy improves dispense results
- Heavy duty ball screw drive mechanism maximizes robot durability and performance
- Z-axis brake mechanism eliminates the risk of the dispense tip crashing into the work piece in the event that the emergency stop button or door switch is inadvertently activated
- 385 mm Z-clearance ensures that large workpieces can be supported
- Optional CCD vision kit, tip-alignment, or height sensor can be easily added at any time
- Increased productivity due to faster cycle times and less rejects
- Windows software provides greater control and visibility of complete dispense program

F7403N-HD ADVANCE HEAVY DUTY ROBOT

SPECIFICATIONS

Item Number	F7403N-HD ADVANCE
Working Area (X/Y/Z)	400 x 400 x 150 mm (16 x 16 x 16")
Maximum Speed (X&Y/Z)	500 mm / 180 mm / secs
Work Load	36 kg (80 lb)
Tool Load	20 kg (44 lb)
Repeatability	+/- 0.01 mm
Motion Control	PTP & CP
Drive System	Ballscrew servo drive
Data Memory	1 - 100 programs 50,000 points / program
I/O Signals	8 inputs / 8 outputs
External Interface	USB / RS232
Power Supply	Auto-switching 100 - 240 VAC, 200 watts
Dimensions: (WxDxH)	640 x 652 x 1107 mm (25.2 x 25.7 x 43.6")
Weight	62 kg (137 lb)
Approvals	CE, RoHS, WEEE



F5000N.2 SERIES 3-AXIS GANTRY ROBOTS

F5000N.2 series robots are compact and cost-effective gantry style robots with all moving axes above the work piece. The Unitop™ design is suitable for dispense applications requiring a configuration that provides open access under the robot.

These robots are ideal for conveyor-fed automation lines or installed into automated work cells. They are also advantageous when component weight or size prevent a conventional benchtop robot from being used.

Programming and control can be carried out via teach pendant, RS232, or proprietary PC software.



Item Number	Description
F5200N.2	3-Axis Inline Gantry Robot
F5300N.2	3-Axis Inline Gantry Robot

FEATURES

- Compact and lightweight gantry-style design
- Work area up to 300 x 300 mm
- Axis repeatability 0.02 mm
- Durable linear belt drive system for industrial applications
- USB port for data transfer
- RS232 port for remote operation
- Modular connectivity interface

BENEFITS

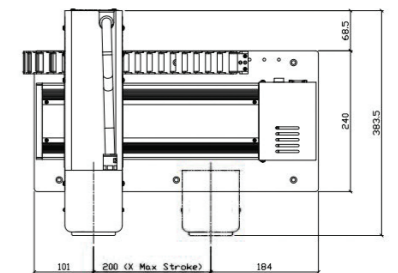
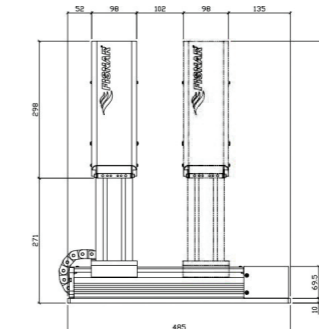
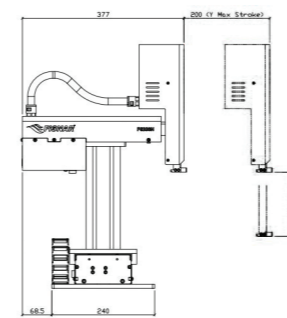
- Separate control box reduces robot footprint
- Separate control box allows robot to be used in vacuum chamber and glovebox work environments
- Open access under robot for dispensing onto oversize and heavy components
- Can be used as part of a conveyor-fed automation solution for increased throughput
- Proprietary offline robot PC software allows for editing of robot programs plus a CAD import utility tool

F5000N.2 SERIES 3-AXIS GANTRY ROBOTS

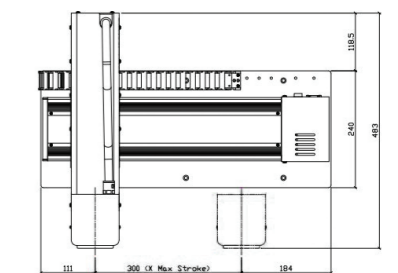
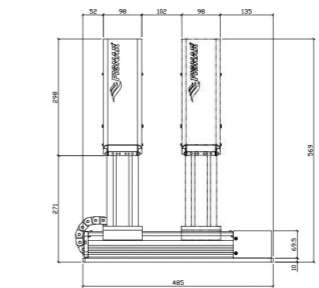
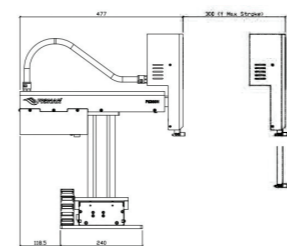
SPECIFICATIONS

Item Number	F5200N.2	F5300N.2
Maximum Working Area (X/Y/Z)	200 x 200 x 150 mm (8 x 8 x 6")	300 x 300 x 150 mm (12 x 12 x 6")
Maximum Speed (X&Y/Z)	500 / 320 mm / secs (20 / 13" / secs)	
Tool Load	2 kg (4.4 lb)	
Repeatability	+/- 0.02 mm / axis	
Resolution	0.001 mm / axis	
Motion Control	PTP and CP	
Drive System	Micro stepping motors	
Data Memory	1 - 100 programs 50,000 points / program	
I/O Signals	8 inputs / 8 outputs	
External Interface	USB / RS232	
Power Supply	Auto-switching AC 100 - 240 VAC, 320 watts	
Dimensions (WxDxH)	485 x 384 x 569 mm (19 x 15 x 22.5")	595 x 483 x 569 mm (23.5 x 19 x 22.5")
Weight	25 kg (55 lb)	28 kg (62 lb)
Approvals	CE, RoHS, WEEE	

F5200N.2



F5300N.2



F5000NB SERIES 3-AXIS GANTRY ROBOTS

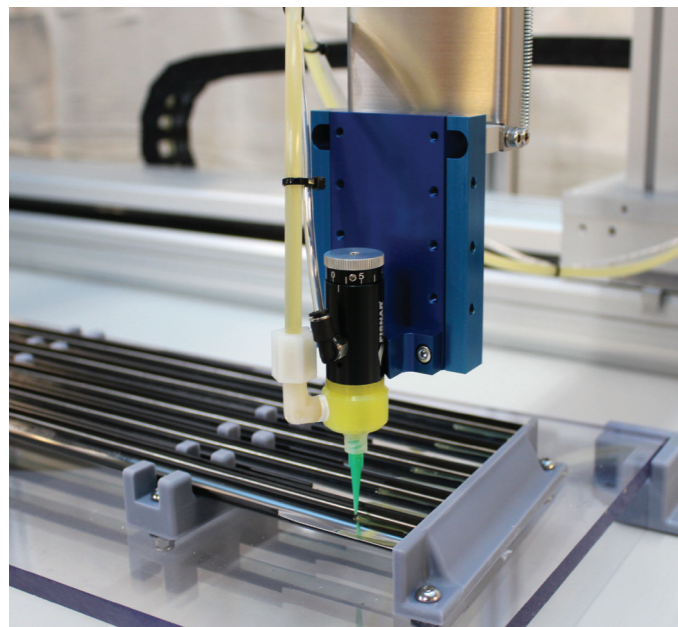


The F5000NB series gantry style robots with all moving axes above the work piece make the loading and unloading of parts easy. The extended X-axis offers a cost-effective solution when dispensing on long narrow parts such as LED strip lights, turbine blades, or extruded parts.

Item Number	Description
F5123NB-220	3-Axis Inline Gantry Robot 1,200x300x150 mm Work Area
F5233NB-220	3-Axis Inline Gantry Robot 2,300x300x150 mm Work Area

FEATURES & BENEFITS

- Work area up to 2,300 x 300 mm
- Tool load up to 2 kg
- Axis repeatability +/- 0.02 mm
- Durable belt drive system for industrial applications
- Ideal solution for dispensing onto long narrow parts
- Open access design allows easy loading and unloading of parts

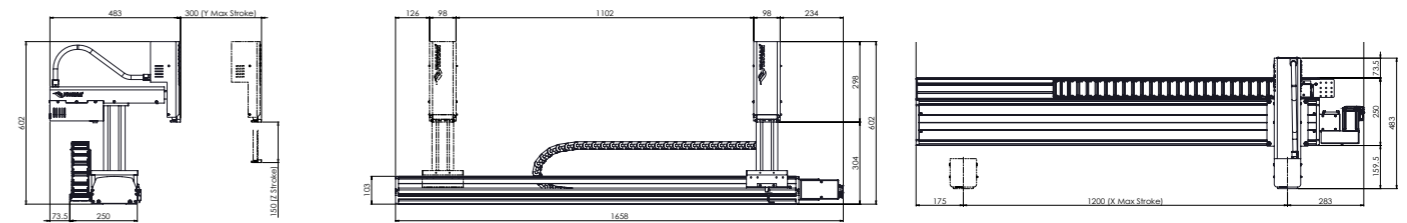


F5000NB SERIES 3-AXIS GANTRY ROBOTS

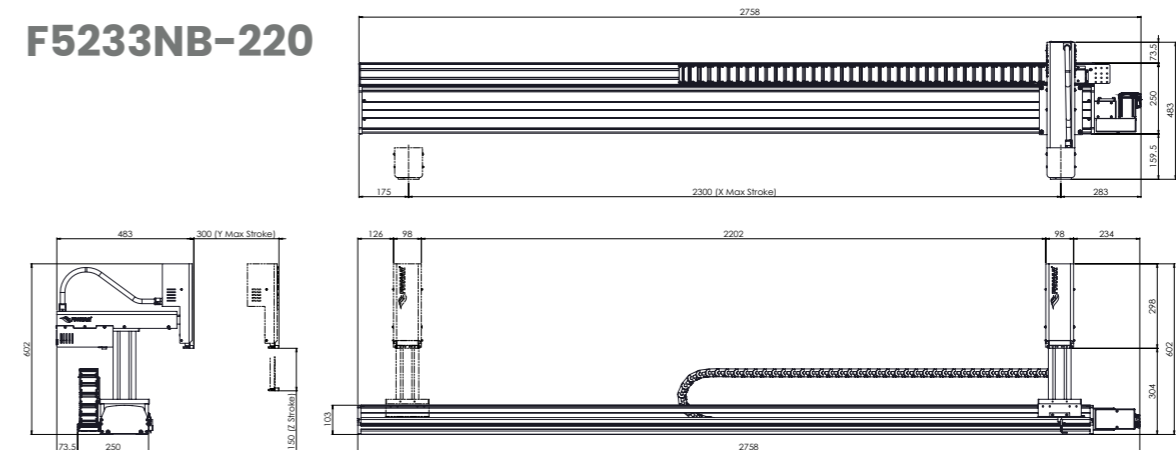
SPECIFICATIONS

Item Number	F5123NB-220	F5233NB-220
Maximum Working Area (X/Y/Z)	1,200 x 300 x 150 mm (47 x 12 x 6")	2,300 x 300 x 150 mm (90.5 x 12 x 6")
Maximum Speed (X&Y/Z)	500 / 320 mm / secs (20 / 13" / secs)	
Tool Load	2 kg (4.4 lb)	
Repeatability	+/- 0.02 mm / axis	
Resolution	0.001 mm / axis	
Motion Control	PTP & CP	
Drive System (X & Y/X)	Servo motor with encoder / Micro stepping motor	
Data Memory	1 - 100 programs 50,000 points / program	
I/O Signals	8 inputs / 8 outputs	
External Interface	USB / RS232	
Power Supply	Auto-switching AC 200 - 230 VAC, 320 watts	
Dimensions (WxDxH)	1,658 x 483 x 602 mm (65.3 x 19 x 23.7")	2,758 x 483 x 602 mm (108.6 x 19 x 23.7")
Weight	53.5 kg	63.5 kg
Approvals	CE, RoHS, WEEE	

F5123NB-220



F5233NB-220



F6000 ADVANCE SERIES GANTRY ROBOTS

The F6000 ADVANCE gantry robot systems can be easily integrated with in-line industrial automation. Industrial gantry robots have all their axes above the work area making them ideal for large dispensing applications.

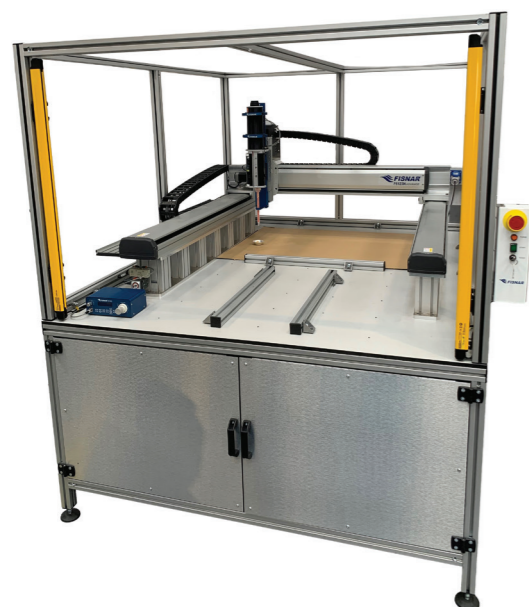
The modular connectivity design allows Fisnar CCD vision system, tip alignment, and height detect kits to be easily incorporated onto the robot for increased productivity and performance.

Programming and control can be carried out via teach pendant, RS232, or proprietary vision PC software (sold separately).



Models

Item Number	Description
F6603N ADVANCE-110	3-Axis Gantry Robot 600x600x150 mm Work Area
F6603N ADVANCE-220	3-Axis Gantry Robot 600x600x150 mm Work Area
F6123N ADVANCE-110	3-Axis Gantry Robot 800x1,200x150 mm Work Area
F6123N ADVANCE-220	3-Axis Gantry Robot 800x1,200x150 mm Work Area



FEATURES

- Work area up to 800 x 1,200 mm
- Axis repeatability +/- 0.02 mm
- 20 kg Z-axis payload
- Z-axis motor brake mechanism
- Dual linear guide and ball screw mechanism
- AC servo motor drive system with closed loop encoder feedback
- Modular connectivity interface

BENEFITS

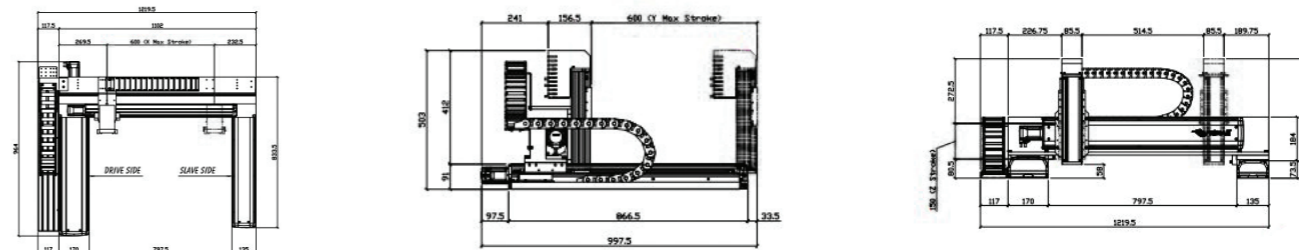
- Open access design for easy integration into conveyor-fed/inline automation lines
- Automating dispense applications on oversize and heavy components is possible due to unlimited workload
- Optional CCD camera vision system can be easily installed for easier programming and more precise dispense results
- Heavy duty rigid frame structure for use in industrious environments

F6000 ADVANCE SERIES GANTRY ROBOTS

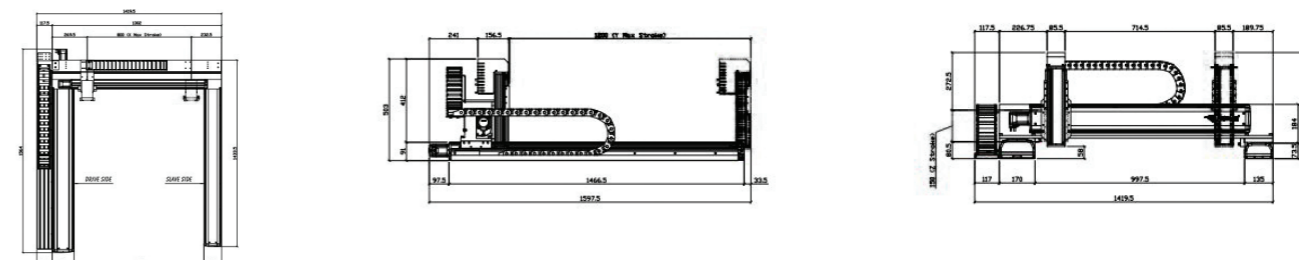
SPECIFICATIONS

Item Number	F6603N ADVANCE-110 F6603N ADVANCE-220	F6123N ADVANCE-110 F6123N ADVANCE-220
Maximum Working Area (X/Y/Z)	600 x 600 x 150 mm (24 x 24 x 6")	800 x 1,200 x 150 mm (32 x 47 x 6")
Maximum Speed (X&Y/Z)	800 / 320 mm / secs	
Tool Load	20 kg (44 lb)	
Repeatability	+/- 0.05 mm	
Drive Mechanism	Dual Linear Guide / Ball Screw	
Drive System (X&Y Axis)	Stepper motor with encoder	
Drive System (Z Axis)	Stepper motor with encoder and brake	
Data Memory	1 - 100 programs 50,000 points / program	
I/O Signals	8 inputs / 8 outputs	
External Interface	USB / RS232	
Power Supply	100 - 115 VAC (F6603N-110 & F6123N-110) 200 - 230 VAC (F6603N-220 & F6123N-220)	
Dimensions (WxDxH)	1,220 x 1,184 x 632 mm (48 x 46.6 x 24.9")	1,420 x 1,784 x 632 mm (55.9 x 70.2 x 24.9")
Weight	110.5 kg (244 lb)	162 kg (357 lb)
Approvals	CE, RoHS, WEEE	

F6603N ADVANCE-110 / F6603N ADVANCE-220



F6123N ADVANCE-110 / F6123N ADVANCE-220



F6000NC ADVANCE SERIES CANTILEVER ROBOTS

The F6000NC series robots are a servo motor-driven, ball screw design. A heavy duty aluminum structure prevents flexing and vibration while maintaining functionality. Ideal for conveyor-fed applications.

Where applications require all moving axes to be above the workstation, the F6000NC series robots provide the needed capability.



Models

Item Number	Description
F6603NC ADVANCE-110	3-Axis Cantilever Robot 600x600x150 mm Work Area
F6603NC ADVANCE-220	3-Axis Cantilever Robot 600x600x150 mm Work Area
F6123NC ADVANCE-110	3-Axis Cantilever Robot 800x1,200x150 mm Work Area
F6123NC ADVANCE-220	3-Axis Cantilever Robot 800x1,200x150 mm Work Area

FEATURES

- Large Work area up to 800 x 1,200 mm
- Axis repeatability +/- 0.02 mm
- 5 kg Z-axis payload
- Z-axis motor brake mechanism
- Dual linear guide and ball screw mechanism
- AC servo motor drive system with closed loop encoder feedback
- Modular connectivity interface

BENEFITS

- Open access design provides operator unrestricted access when loading and unloading parts
- Automating dispense applications on oversize and heavy components is possible due to unlimited workload
- Optional CCD camera vision system and laser height sensor can be easily installed for easier programming & more precise dispense results
- Heavy duty rigid frame structure for use in industrious environments

F6000NB ADVANCE SERIES LARGE WORK AREA ROBOTS

The F6000NB ADVANCE series of robots are servo motor-driven, belt drive, 3-axis gantry robots. Its heavy duty large work area design ensures even the most largest of parts can be processed with high levels of accuracy and repeatability. They can be used for standalone or conveyor-fed applications.



Models

Item Number	Description
F6123NB ADVANCE-220	3-Axis Gantry Robot - 1,200x1,200x150 mm Work Area
F6233NB ADVANCE-220	3-Axis Gantry Robot - 1,200x2,300x150 mm Work Area

FEATURES

- Work area up to 1,200 x 2,300 mm
- Axis repeatability +/- 0.1 mm
- 7 kg Z-axis payload
- Z-axis motor brake mechanism
- Dual linear guide and belt drive mechanism
- AC servo motor drive system, with closed loop encoder feedback
- Unlimited workpiece payload
- Modular connectivity interface
- 100 onboard program memory

BENEFITS

- Open access design for easy integration into conveyor-fed/inline automation lines
- Automating dispense applications on oversize and heavy components is possible due to unlimited workload
- Optional auto tip alignment, CCD camera vision system and laser height sensor can be easily installed for easier programming & more precise dispense results
- Heavy duty rigid frame structure for use in industrious environments

ILX400 ROBOT DISPENSING WORK CELL

The iLX400 is a versatile standalone robotic dispensing cell that has been optimised for selective conformal coating applications, as well as dam & fill, potting, dot, and bead dispensing applications.

Two independent Z-axis tool heads are fitted as standard enabling multiple dispense applications or fluid materials to be dispensed at any one time. While a simple modular integration of Fisnar dispense valves and controllers enable different dispense configurations to be quickly installed and setup.

The optional auto width adjustable inline metal pin chain conveyor converts the machine into an inline system perfectly suited for automated assembly and SMT production lines. The proprietary robot vision software is user friendly and enables the creation of complex dispensing routines to be set up and operational in minutes.

A supplementary offline programming software (Sky Path Editor) allows an image of the workpiece to be imported into the software and have spray patterns, dispense lines, dots, or circles quickly overlaid onto the image. This feature dramatically reduces programming time for complex dispense patterns, and optimises machine productivity.



ILX400 ROBOT DISPENSING WORK CELL

FEATURES

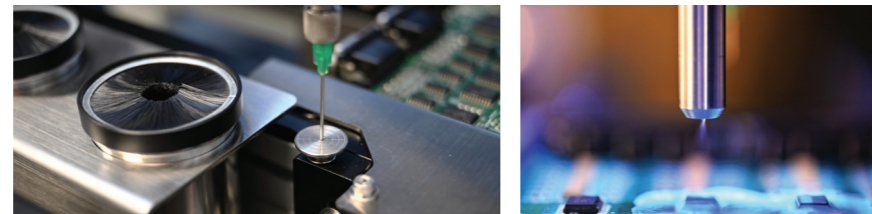
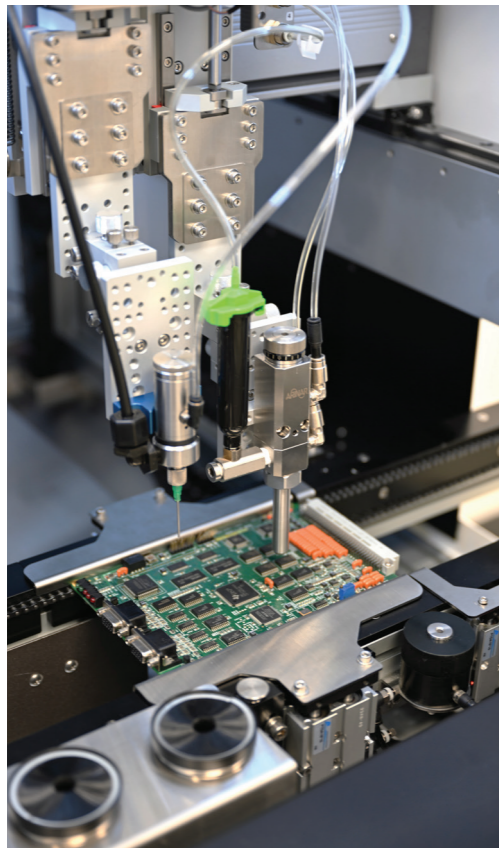
- Working area up to 370 x 450 mm
- Axis repeatability +/- 0.01 mm
- Servo motor controlled ball screw drive mechanism
- Sky CCD vision programming camera
- Windows 11OS Industrial PC programming control system
- Fluid, pneumatic, and electrical inter-connect plate
- Precision air filter regulator and supply unit
- Modular connectivity interface
- LED worklight and UV inspection light
- Parking & Purge Cup
- Heavy duty compact gantry frame design
- Optional CCD camera for precision micro dispensing applications. (e.g. underfill)

BENEFITS

- Optional high zoom CCD camera available for fiducial recognition processes and achieving high positional accuracy of micro dispensing applications
- Dispense tip alignment pad and cleaning station maintains consistent dispense results
- Optional tilt & turn tool head for dispensing into hard to reach areas.
- Optional inline conveyor for easy integration into automated production assembly lines
- LED signal tower and audible alarm provides machine operation status
- Top or back mounted extraction fan enables fluid material fumes to be safely extracted
- Robot vision software provides simple control, programming, and visibility of dispense program

SPECIFICATIONS

Item Number	iLX400	iLX400C	iLX400R	iLX400RC
Work Table Fitted	Yes	No	Yes	No
Inline Conveyor Fitted	No	Yes	No	Yes
Tilt & Turn Tool Head Fitted	No	No	Yes	Yes
Working Area X/Y/Z	400 x 400 x 100 mm (16 x 16 x 4")			
Work Load	10 kg (22 lb)	5 kg (11 lb)	10 kg (22 lb)	5 kg (11 lb)
Tool Load	2 kg (4.4 lb)			
Repeatability	+/- 0.01 mm			
Drive System	Ballscrew servo drive			
I/O Signals	8 Inputs / 8 Outputs			
External Interface	USB / SMEMA			
Power Supply	240 VAC, 200 W			
Dimensions (W/D/H)	838 x 1092 x 1600 mm / (33 x 43 x 63")			
Weight	315 kg (695 lb)	360 kg (795 lb)	320 kg (705 lb)	365 kg (805 lb)
Approval	CE, RoHS, WEEE			



Models

Item Number	Description
iLX400	3-Axis Robot Dispensing Work Cell 400x400x100 mm Work Area (With Work Plate)
iLX400C	3-Axis Robot Dispensing Work Cell 400x400x100 mm Work Area (With Inline Conveyor)
iLX400R	5-Axis Robot Dispensing Work Cell 400x400x100 mm Work Area (With Work Plate & Tilt/Turn Tool Head)
iLX400RC	5-Axis Robot Dispensing Work Cell 400x400x100 mm Work Area (With Inline Conveyor & Tilt/Turn Tool Head)

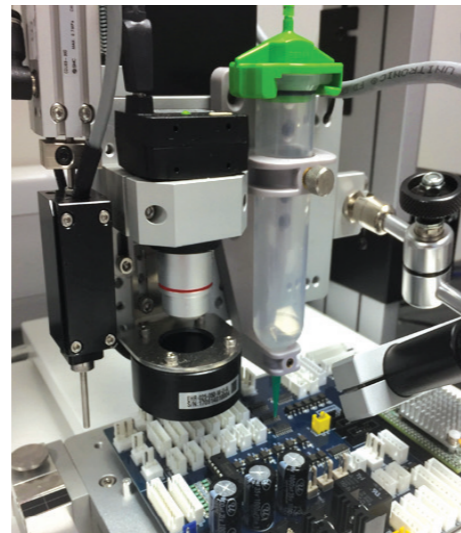
CCD CAMERA VISION SYSTEM

A powerful, intelligent CCD vision system for creating both simple and complex dispense routines. Saves time and reduces costs while improving quality.

Dispense patterns are created by using the camera's vision to jog the robot to the correct position before creating dots, lines, etc.

An automatic part alignment function guarantees precise dispensing by comparing fiducial locations against a stored image and correcting for differences in the X or Y-axis.

Auto-tip calibration routine also improves accuracy and repeatability.



Item Number

F4000AKIT-VISION-WIN11

F6000AKIT-VISION-WIN11

FEATURES

- Auto 3-axis tip calibration function
- Auxillary camera to monitor dispense process live
- High resolution CCD camera
- LED light & brightness controller
- Simple & fast transfer of CAD data (.DXF) into software
- Quick set up, easy to program/operate using proprietary software
- Industrial Windows 10 OS based PC system included
- Glue check/verification function*

BENEFITS

- Vision system can be easily installed at any time onto a F4000 or F6000 ADVANCE series 3-axis robot
- Plug and play system design
- Peripheral hardware is mounted directly onto robot reducing space envelope taken up
- Images can be captured and stored for quality and process control purposes
- Barcode scanner can be attached to pc controller allowing programs to be automatically called and run

PROPRIETARY USER INTERFACE

For simple user setup, programming, and operation.

Tool Ribbon
Used for quickly accessing program setup and management functions.

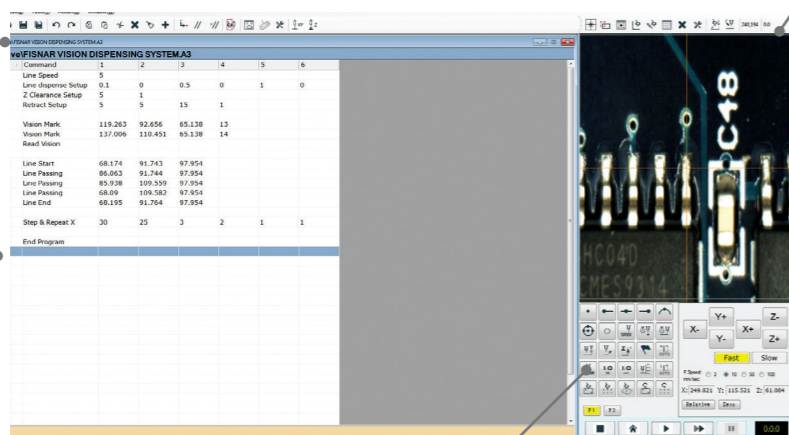
Programming Window
Gives full and simple view of complete dispense program. Values can be edited directly by clicking on the line.

Dispense Function
Graphical icons used for quick robot programming.

Robot Actuation
Icons used to start, stop, and view robot program.

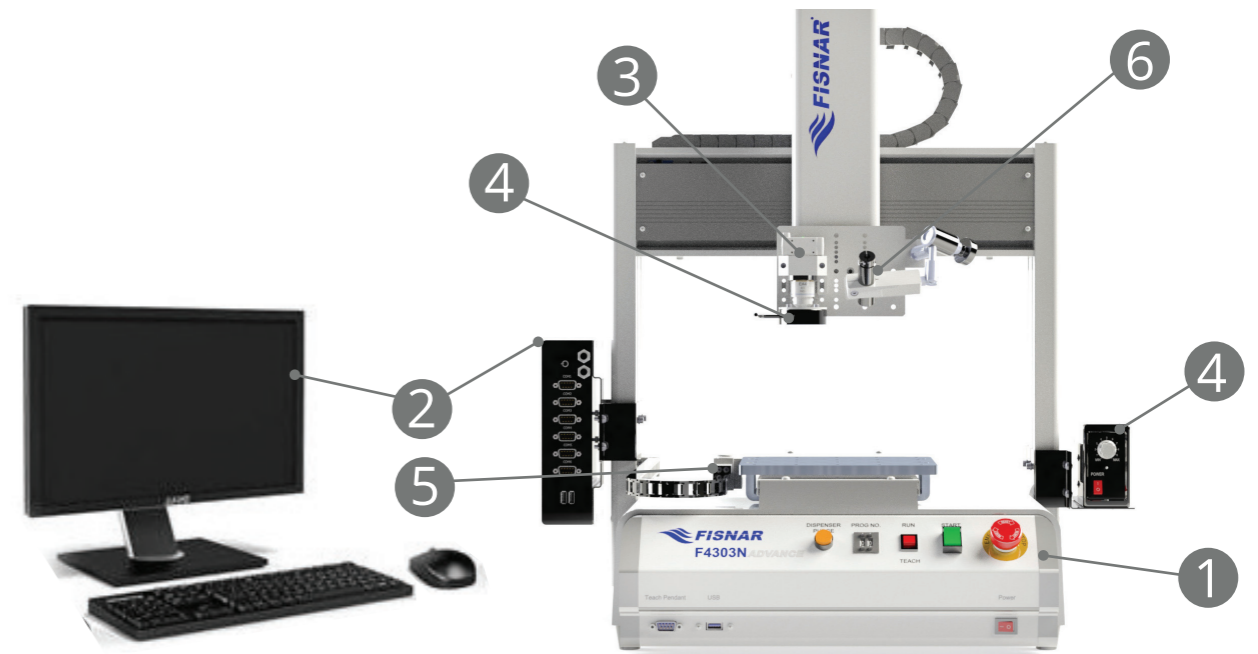
Camera Display
Real time view of camera viewing area. Cross hair designates dispense location to ensure precise positional control. Clicking on imaging area will jog robot to position clicked on.

Robot Movement
Icons used to control robot movement and speed while also displaying absolute/relative dispense coordinates.



*Glue check function not suitable for all applications. To be certified by Fisnar application team.

VISION SYSTEM KIT CONTENTS



*Height sensor sold separately

1 F4000 ADVANCE Benchtop Robot

Highly robust and durable based on their cast aluminium base and heavy duty extruded aluminum twin vertical side pillars supporting the horizontal X-axis. This rigid design concept allows for long term precision dispensing and dependable repeatability.

2 PC

Industrial specification PC installed with Windows 10 OS and Fluid-In-Motion (FIM) software ready to use. Unit mounted directly onto robot to reduce overall space envelope. TFT LCD monitor, keyboard, and mouse included.

3 CCD Camera

For high resolution color and grayscale image capturing.

4 LED Ring Light & Controller

For optimizing image contrast and definition. Adjustable light brightness controller is mounted directly onto the robot to reduce the overall space envelope.

5 Tip Calibration Module

Works by the camera capturing an image of the purged fluid and uses pattern recognition to compare it against a pre-defined datum image. Any difference found between the center positions result in the X and Y coordinate values being automatically adjusted and dispense program re-aligning to suit. The Z-axis is automatically calibrated by the dispense tip contacting a touch pad.

6 Aux Camera

Displays a live image on the TFT LCD monitor allowing the user to clearly monitor the fluid being dispensed onto the component part while a dispense cycle is taking place.

MECHANICAL TIP ALIGNMENT

The TA360U-KIT is a mechanical tip adjustment kit allowing the mounting hardware attached to the robot to be mechanically adjusted in the X, Y, and Z-axis.

The TA360U-KIT allows the dispense tip to be quickly and easily adjusted by re-aligning it to a known location of the robot program.

Re-alignment can be carried out remotely to the program and adjustments can be easily made by users not trained in robot programming.



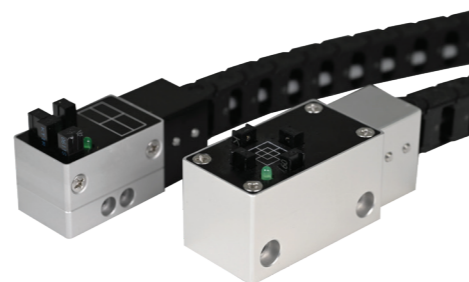
Item Number
TA360U-KIT

AUTOMATIC TIP ALIGNMENT

A series of tip alignment modules for precise dispense applications that require frequent material or tip changes that could alter the needle's position.

Users can easily run a function on the robot to automatically offset the program for the new dispense tip position. Ensures consistent dispense results and minimal downtime.

Can also be run through an external control for easier use in a production environment.



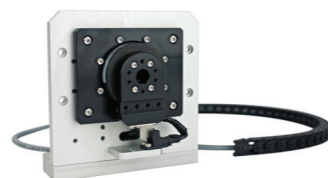
Item Number	Description
TA4200N.2	Tip Alignment Module for F4200N.2 Robot
F4000AKIT-TA3	Tip Alignment Module for F4000 ADVANCE 3-Axis Robots
F4000AKIT-TA4	Tip Alignment Module for F4000 ADVANCE 4-Axis Robots
F6000AKIT-TA3	Tip Alignment Module for F6000 ADVANCE 3-Axis Robots

AUXILIARY ROTATION AXIS

The Auxiliary Rotation Module allows an additional axis to be quickly and easily mounted onto a F4000 ADVANCE 3-Axis robot. Mounting options:

Horizontal Mounting: When 4-axis (R) rotation is required but not possible due to size or weight of the dispense equipment that is normally attached to the robot Z-axis that typically rotates on a conventional 4-axis robot. With this configuration the workpiece rotates instead, achieving the same end result. Horizontal mounting allows the CCD vision system to be used in applications requiring 4-axis motion.

Vertical Mounting: For applications that require dispensing onto multiple planes on a single workpiece. Dispensing onto cylindrical components can be made easy with the device mounted in either a horizontal or vertical position depending on the specific application process.

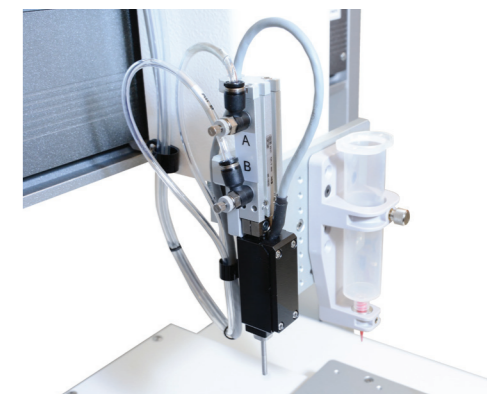


Item Number
F4000AKIT-AUX

HEIGHT SENSOR

The height sensor automatically adjusts the dispense tip height for any variations on the workpiece. Programming and setup is made easy with pre-installed software.

By comparing the workpiece height against the stored value, the Z-axis height is automatically offset for any deviation. One robot program can conduct multiple height checks to handle multiple workpieces or a single workpiece with differing heights.



Item Number
F4000AKIT-HDS
F6000AKIT-HDS

I/O EXPANSION MODULE

The I/O expansion module increases the number of inputs and outputs while simplifying connection of external devices (e.g. sensors) to the robot.

The I/O expansion module increases the number of robot inputs to 16 channels (12 digital photo-coupler, 4 digital relay, 2 analog (0-10V)) and outputs to 20 channels (16 digital photo-coupler, 4 digital relay, 2 analog (0-10V)) The user can select if the expansion module is configured for NPN or PNP signal logic, via internal jumper plugs. The use of this device also prevents any damage caused to the PCB inside the robot due to incorrect wiring or failure of the external device.



Item Number	Description
F4000AKIT-IONPN/PNP	I/O Expansion Module - NPN/PNP Signal

REMOTE OPERATION BOX

The remote operation box allows users to operate a robot from a safe distance or from outside a safety enclosure.

Optionally supplied with a safety relay (Category 3, PL d) to easily connect a light curtain or safety switch, eliminating the need for an additional costly electrical control panel.



Item Number	Description
F1300N.2-EXTBOX	Remote Operation Box - F1300N.2
F4000AKIT-EXTBOX	Remote Operation Box - N.2 & ADVANCE Series Robots
F4000AKIT-EXTBOX-SR	Remote Operation Box with Safety Relay

ROBOT WORK TABLES

Available in two different sizes, these anodized aluminum worktables provide a convenient solution for securing workpieces.

Their design also allows for mounting the optional Fisnar automatic tip alignment modules.



Accessories (sold separately)

Item Number	Description
F4000AKIT-WT300	Robot Work Table - 300x300 mm
F4000AKIT-WT500	Robot Work Table - 500x500 mm

Item Number	Description
0603-20140010	Ø4.6 x 6.2 mm Dowel Pin - M4
0806-20150020	50 mm Extension Post - M4

AIR TREATMENT UNIT

The air treatment unit improves process control for automated dispense applications by allowing the robot and pneumatic air supply to better work in unison.

Allows for safe shutoff and venting of the air supply when the emergency stop button is pressed. Includes a 5 micron filter regulator and manual shutoff valve.

Can also monitor the output air pressure for accuracy and prevents dispensing if a pressure drop occurs.



Item Number	Description
F4000AKIT-ATU	Air Treatment Unit

PNEUMATIC SLIDE BRACKET

The pneumatic slide bracket reduces the risk of tools crashing into the workpiece when two valves or other pieces of equipment are mounted to the Z-axis.

When one tool is statically mounted to the bracket, the other can be mounted to the slide bracket.



Item Number	Description
F4000AKIT-PSB	Pneumatic Slide Cylinder Kit and Air Regulator
F4000AKIT-PSB2	Additional Pneumatic Slide Cylinder Kit for Dual setup

ROBOT ACCESSORIES COMPATIBILITY CHART

Robots	Accessories															
	F4000AKIT-VISION	F6000AKIT-VISION	TA360U-KIT	TA4200N.2	F4000AKIT-TA3	F4000AKIT-TA4	F6000AKIT-TA3	F4000AKIT-AUX	F4000AKIT-HDS	F6000AKIT-HDS	F4000AKIT-IONPN/PNP	F4000AKIT-PSB	F1300N.2-EXTBOX	F4000AKIT-EXTBOX	F4000AKIT-EXTBOX-SR	
F1300N			•												•	
F4200N.2			•	•							•	•		•	•	
F5200N.2			•				•			•	•	•		•	•	
F5300N.2			•				•			•	•	•		•	•	
F5123NB			•				•			•	•	•		•	•	
F5233NB			•				•			•	•	•		•	•	
F4303N ADVANCE	•		•		•			•	•		•	•		•	•	
F4403N ADVANCE	•		•		•			•	•		•	•		•	•	
F4503N ADVANCE	•		•		•			•	•		•	•		•	•	
F4603N ADVANCE	•		•		•			•	•		•	•		•	•	
F4304N ADVANCE						•			•		•			•	•	
F4404N ADVANCE						•			•		•			•	•	
F4504N ADVANCE						•			•		•			•	•	
F4604N ADVANCE						•			•		•			•	•	
F4505N ADVANCE											•			•	•	
F4553N ADVANCE			•		•						•	•		•	•	
F4554N ADVANCE						•					•	•		•	•	
F4303N ELITE											•	•		•	•	
F4403N ELITE											•	•		•	•	
F7403N-HD	•	•					•			•	•	•		•	•	
F6603N ADVANCE	•	•					•			•	•	•		•	•	
F6123N ADVANCE	•	•					•			•	•	•		•	•	
F6603NC ADVANCE	•	•					•			•	•	•		•	•	
F6123NC ADVANCE	•	•					•			•	•	•		•	•	
F6123NB ADVANCE	•	•					•			•	•	•		•	•	
F6233NB ADVANCE	•	•					•			•	•	•		•	•	

UNIVERSAL ROBOT HOLDER ASSEMBLIES

High quality valve and cartridge holder assemblies for use with Fisnar's line of robots and dispense systems.

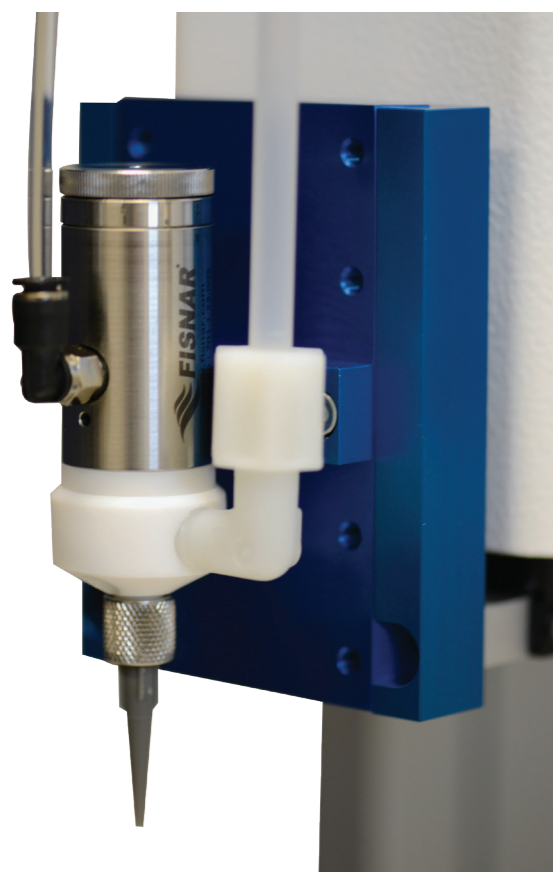
Kitted for easy out-of-the-box, plug-and-play assembly, designed to create a smooth and convenient installation, removal, and setup experience.

Their unique design allows for valves to be quickly removed for maintenance requirements and then re-installed without losing the original datum mounting position.

The Z-axis mounting position can also be adjusted to reduce working movement to the workplace in order to reduce robot cycle times.

Suitable for use with the following platforms:

- F1300N.2 Rotary Table
- F4000 Series Benchtop (3, 4, and 5-axis)
- F5000 Series Gantry (3-axis)
- F6000 Series Gantry (3-axis)
- F7000 Series HD Benchtop (3-axis)



UNIVERSAL SYRINGE HOLDERS



560920U Universal Syringe Holder
For use with 3, 5, 10, 30, and 55 cc syringes



562360U High Capacity Syringe Holder
For use with 100, 200, and 300 cc syringes



UNIVERSAL CARTRIDGE RETAINER HOLDERS



560926-EU Cartridge Retainer Holder
For use with 2.5, 6, and 12 oz EFD cartridge retainers



560926-NU Cartridge Retainer Holder
For use with 2.5, 6, 8, and 12 oz nylon cartridge retainers



560926-TU Cartridge Retainer Holder
For use with 2.5, 6, 8, and 12 oz Techcon metal cartridge retainers



561785U 1/10th Gallon Cartridge Retainer Holder
For use with CR300



561785-NU 1/10th Gallon Cartridge Retainer Holder
For use with 5801383



562297-EU 20/32 oz Cartridge Retainer Holder
For use with 20/32 oz EFD cartridge retainers



562297-SU 20/32 oz Cartridge Retainer Holder
For use with 20/32 oz Semco cartridge retainers



562297-TU 20 oz Cartridge Retainer Holder
For use with CR570, CR910, and 101-20R cartridge retainers

UNIVERSAL UV LIGHT GUIDE HOLDERS



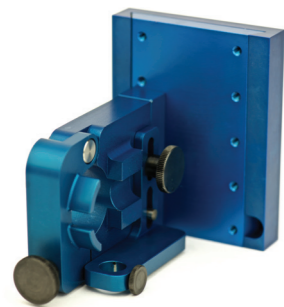
561273U-100 Universal UV Light Guide Holder
For use with Dymax Bluewave® Light guide 10 mm, end of wand



561273U-157 Universal UV Light Guide Holder
For use with Dymax QX4



UNIVERSAL VALVE HOLDERS



561355U Universal Valve Holder
For use with 710PT-U



562151U Universal Valve Holder
For use with VP300, VD510, and SV2000N



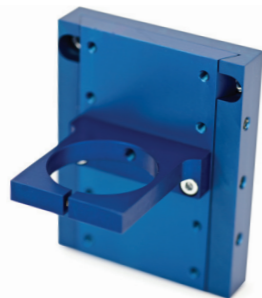
560928U Universal Valve Holder
For use with MV-0180



562064U Universal Valve Holder
For use with CV629



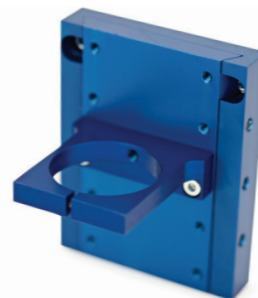
562088U Universal Valve Holder
For use with SV1000SS



560927U Universal Valve Holder
For use with 790HP



5601809U Universal Valve Holder
For use with VTS4000



5601807U Universal Valve Holder
For use with PosiPump™ PC1



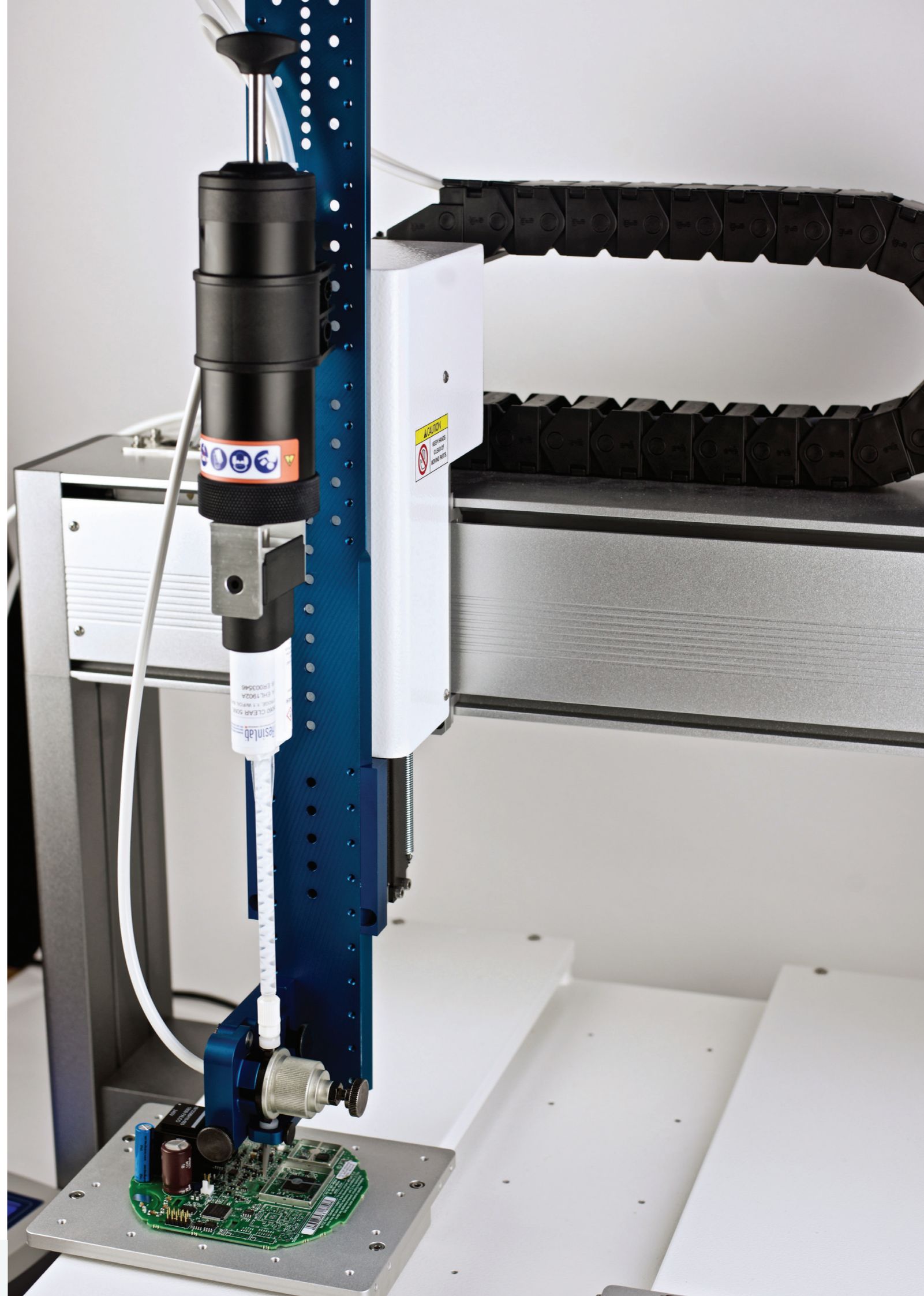
5601810U Universal Valve Holder
For use with PosiPump™ PC2



5601801U Universal Valve Holder
For use with VMP30H, PDV-2000, VMS400, and VDP150



5601800U Universal Holder
For use with DTD50, DTD50-RB, RV400, Pz1200, MX-150, and MX-250



MODULAR SYRINGE AND VALVE CONFIGURATIONS



0401-08-000683 0401-08-000525 0401-08-000484 0401-08-000485 0401-08-000483



0401-08-000248 0401-08-002625 0401-08-002261 0401-08-000524 0401-08-000523



0401-08-001357 0401-08-002415 0401-08-002413 0401-08-000775 0401-08-001630

MODULAR CARTRIDGE RETAINER CONFIGURATIONS



0401-08-000487 0401-08-000488 0401-08-000486 0401-08-000489 0401-08-001550



0401-08-002306 0401-08-000490 0401-08-001408 0401-08-001586

Spare parts identifier guide located on pages 266 and 267.

CARTRIDGE RETAINER & VALVE BACKPLATE

Compatible with 3-axis robots and corresponding cartridge retainers. Ideal for feeding a valve from a prefilled cartridge system while optimizing fluid flow rate.

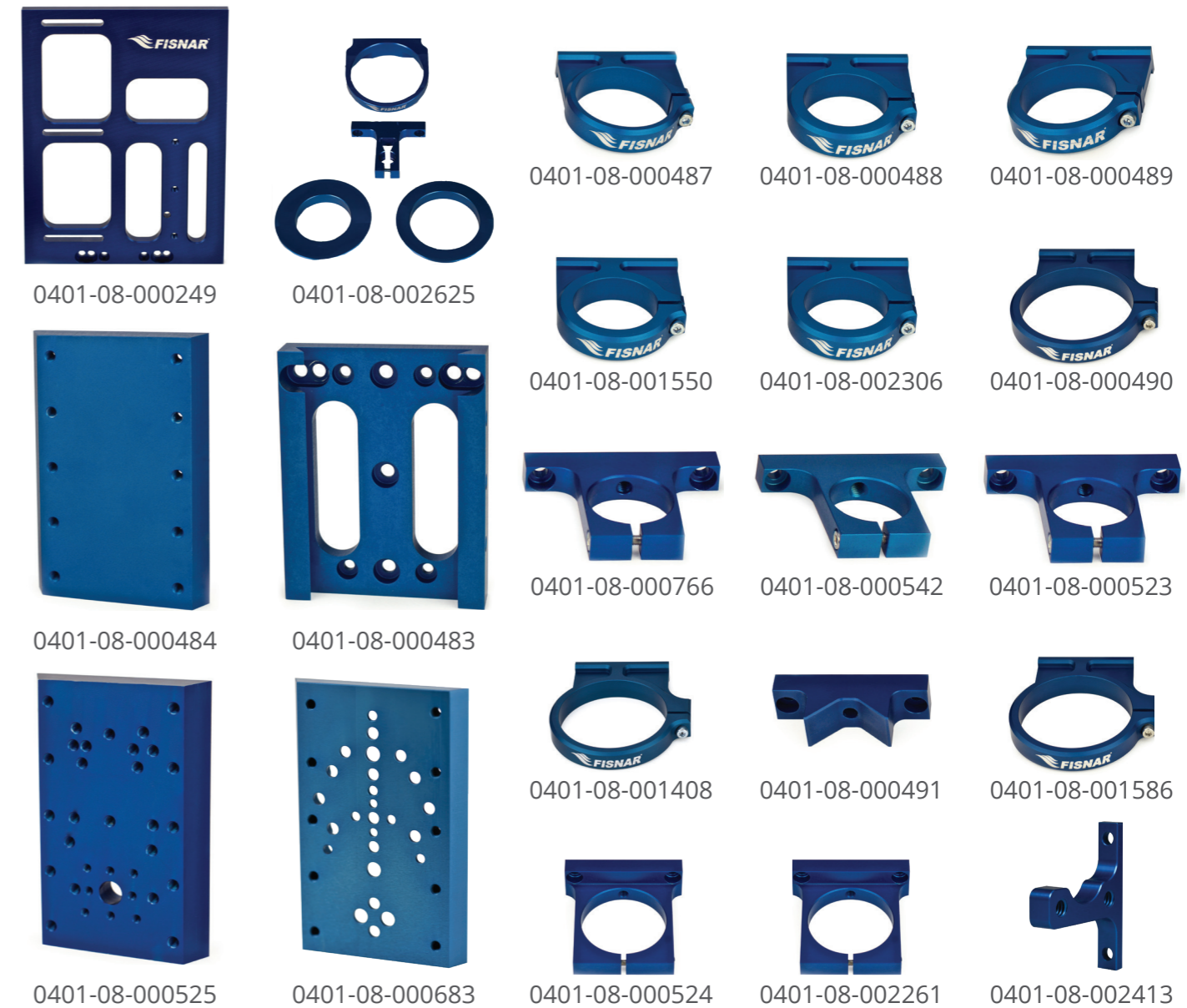
Suitable for use with the following platforms:

- F1300N.2 Rotary Table
- F4000 Series Benchtop (3-Axis)
- F5000 Series Gantry (3-Axis)
- F6000 Series Gantry (3-Axis)
- F7000 Series HS Benchtop Robot (3-Axis)



Example configuration CR300 with 790HP-LF valve.

SYRINGE, VALVE & CARTRIDGE RETAINER MODULAR CONFIGURATIONS



0401-08-000249 0401-08-002625 0401-08-000487 0401-08-000488 0401-08-000489

0401-08-001550 0401-08-002306 0401-08-000490

0401-08-000766 0401-08-000542 0401-08-000523

0401-08-000484 0401-08-000483

0401-08-000525 0401-08-000683 0401-08-001408 0401-08-000491 0401-08-001586

0401-08-000524 0401-08-002261 0401-08-002413

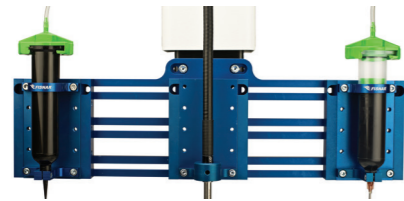
Spare parts identifier guide located on pages 266 and 267.

MULTI-SYRINGE, VALVE, AND CARTRIDGE RETAINER BRACKET CONFIGURATIONS

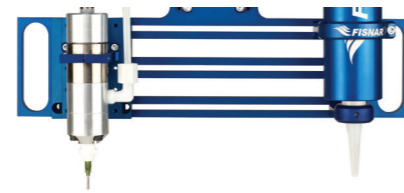
Compatible with all 3-axis robots and corresponding cartridge retainers. Ideal for simultaneous dispensing from syringes, valves, and cartridges when increased productivity is required.

Suitable for use with the following platforms:

- F4000 Series Benchtop (3-axis)
- F5000 Series Benchtop (3-axis)
- F7000 Series HD Benchtop (3-axis)

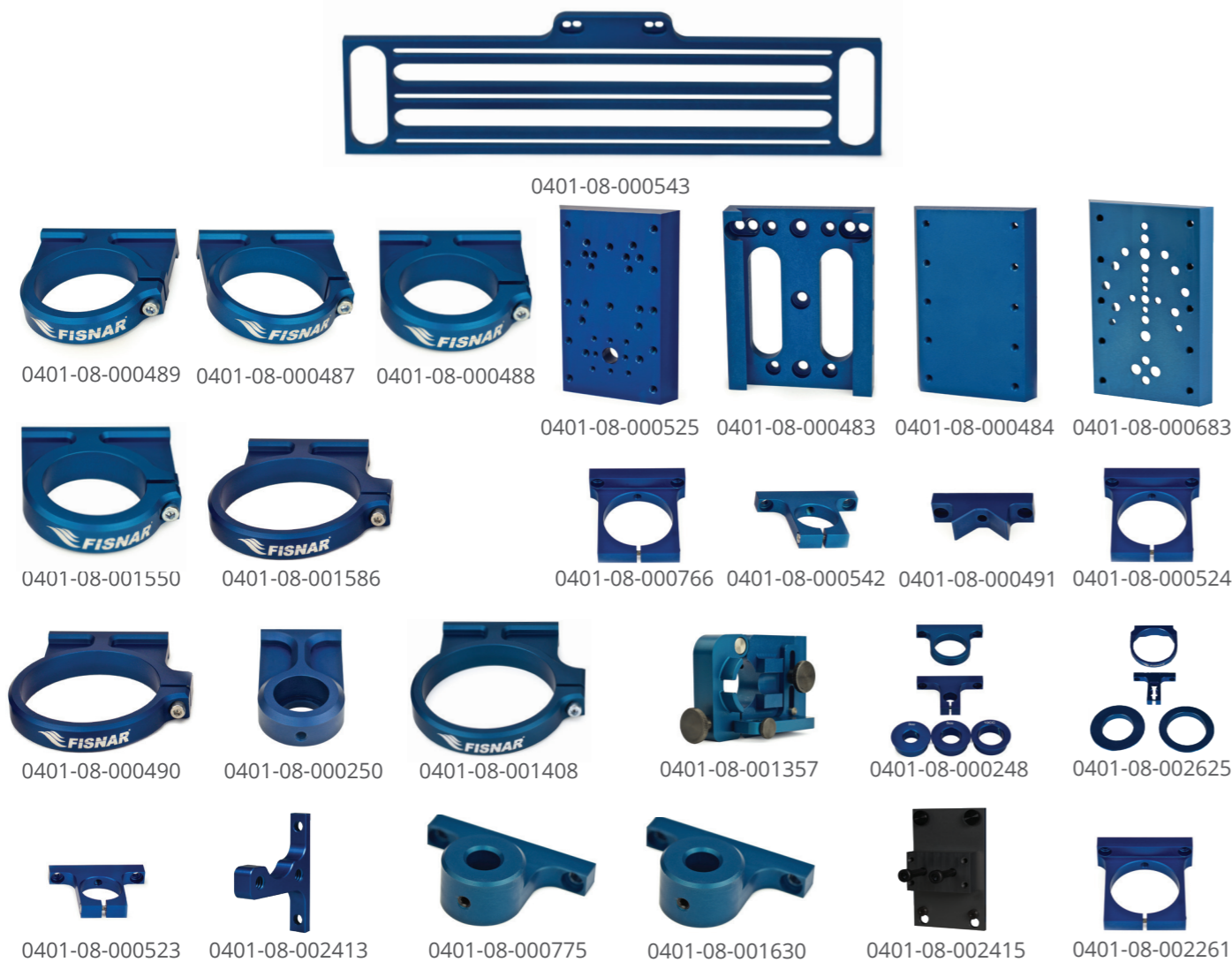


Example configuration dual syringe and light guide.



Example configuration 790HP valve and CR300 cartridge retainer.

MODULAR BACKPLATE CONFIGURATIONS



Spare parts identifier guide located on pages 266 and 267.

TRI-MOUNT SYRINGE & VALVE HOLDER

Compatible with all 3-axis robots and corresponding cartridge retainers. Ideal for simultaneous dispensing from syringes, valves, and cartridges when increased productivity is required.

Suitable for use with the following platforms:

- F4000 Series Benchtop (3-axis)
- F5000 Series Gantry (3-axis)
- F6000 Series Gantry (3-axis)
- F7000 Series HD Benchtop (3-axis)



5601802U

MODULAR TRI-MOUNT BRACKET CONFIGURATIONS



Spare parts identifier guide located on pages 266 and 267.

SPARE PARTS

Item Number	Description
 0401-08-000483	Sliding Bracket Holder
 0401-08-000683	3-Axis Square Sliding Plate Holder
 0401-08-000484	3-Axis Sliding Plate Holder
 0401-08-000525	3-Axis Square Sliding Plate Holder
 0401-08-000485	4-Axis Angled Sliding Plate Holder
 0401-08-000491	Universal Valve Holder - For use with VP300, VD520, and SV2000N Series Valves
 0401-08-000523	Universal Valve Holder For use with MV-0180LF Valve
 0401-08-001499	Syringe Holder Bottom Plate For use with 3, 5, 10, 30, and 55 cc syringes
 0401-08-002498	Syringe Holder Bottom Plate For use with 100, 200, and 300 cc syringes
 0401-08-001691	Syringe Barrel Support 30/55 cc
 0401-08-002499	Syringe Barrel Support 300 cc
 0401-08-000524	Universal Valve Holder For use with 790HP-LF Valve
 0401-08-002261	Universal Valve Holder For use with PosiPump™ PC1 Valve
 0401-08-002415	Universal Valve Holder For use with PosiPump™ PC2 Valve
 0401-08-000766	Universal Valve Holder For use with SV1000SS Valve
 0401-08-000542	Universal Valve Holder For use with CV629 Valve
 0401-08-001357	Universal 710PT-U Valve Holder
 0401-08-000246	4-Axis Mounting Bracket - F8000/F9000 Series Robot
 0401-08-000486	3-Axis Cartridge Retainer Holder
 0401-08-000488	Techcon Metal Cartridge Retainer Holder 2.5, 6, 8, and 12 oz
 0401-08-000489	EFD Polycarbonate Cartridge Retainer Holder 2.5, 6, and 12 oz
 0401-08-001550	Fisnar Nylon Cartridge Retainer Holder 2.5, 6, 8, and 12 oz

SPARE PARTS

Item Number	Description
 0401-08-001408	Universal Cartridge Retainer Holder for use with 20 & 32 oz EFD Retainers
 0401-08-000490	Universal Cartridge Retainer Holder for use with 20oz CR570 & 32oz CR910 Metal Retainers
 0401-08-001586	Universal Cartridge Retainer Holder for use with 20 & 32 oz Semco Retainers
 0401-08-000487	Cartridge Retainer Holder - CR300 (1/10th Gallon)
 0401-08-002306	Cartridge Retainer Holder - 5801383 (1/10th Gallon)
 0401-08-000775	UV Light Guide Holder BlueWave® Light Guide 10 mm, End of Wand
 0401-08-001630	UV Light Guide Holder for QX4 Light Guide
 0401-08-000249	3-Axis Backplate Holder
 0401-08-002229	Tri-Mount Valve Holder
 0401-08-000543	Multi-Syringe, Valve & Cartridge Retainer Backplate
 0401-08-000777	Gantry Robot Holder Plate
 0401-08-000769	Benchtop Robot Spacer Bracket
 0401-08-002376	Clamp Assembly - EAD200PS Dispenser
 0401-08-001704	Clamp Assembly - EAD400PS Dispenser
 0401-08-001707	Bushing for - EAD200/400PN-MR & EAD600PCLT-11 Dispenser
 0401-08-001698	Mixer Sleeve Bushing Holder
 0401-08-001699	Mixer Bushing - 8.4 mm (Use with 5 mm & 0.187" I.D. mixers)
 0401-08-002472	Mixer Bushing - 8.6 / 9.4 (Use with 6 mm & 0.250" I.D. and 9 mm Quadro A & B Series mixer)
 0401-08-001700	Mixer Bushing - 10.1 mm (Use with 6 mm & 0.250" I.D. C & F Series mixer)
 0401-08-002471	Mixer Bushing - 12.7 mm (Use with 8 mm & 0.370" I.D. mixers)
 0401-08-001701	Mixer Sleeve Bushing - Blank
 0401-08-001692	Syringe Holder Bushing - 3 cc
 0401-08-001693	Syringe Holder Bushing - 5 cc
 0401-08-001694	Syringe Holder Bushing - 10 cc
 0401-08-002500	Syringe Holder Bushing - 100 cc
 0401-08-002501	Syringe Holder Bushing - 200 cc

VALVE BRACKET HOLDER AND STAND COMPATIBILITY CHART

Valves	F4000, F5000, F6000 & F7000 Series Robots	Rotary Table	Stands
	3, 4, & 5-Axis	F1300N.2	Workbench
790HP-LF	560927U	560927U	560671U
790HPSS-LF	560927U	560927U	560671U
VTS4000	5601809U	5601809U	-
VD520-PT	562151U	562151U	562043U
VD520-SS	562151U	562151U	562043U
MV-0180LF	560928U	560928U	560536U
MV-0180SS	560928U	560928U	560536U
CV629	562064U	562064U	562166U
SV2000N	562151U	562151U	562054U
SV1000SS	562088U	562088U	562054U
710PT-U	561355U	561355U	562054U
RV400	5601800U	5601800U	562318U
PDV-2000	5601801U	5601801U	562235U
VMS400	5601801U	5601801U	562235U
VMP30H	5601801U	5601801U	562235U
VP300	562151U	562151U	562043U
VDP150	5601801U	5601801U	562235U
PosiPump™ PC1	5601807U	5601807U	562361U
PosiPump™ PC2	5601810U	5601810U	-
Pz1200	5601800U	5601800U	562318U
DTD50	5601800U	5601800U	562318U
MX-150	5601800U	5601800U	562318U
MX-250	5601800U	5601800U	562318U

CARTRIDGE RETAINER/SYRINGE BRACKET HOLDER AND STAND COMPATIBILITY CHART

Syringe/Retainer	F4000, F5000, F6000, & F7000 Series Robots	Rotary Table	Stands
	3, 4, and 5-Axis	F1300N.2	Workbench
Syringe Holder 3, 5, 10, 30/55 cc	560920U	560920U	560021U
Syringe Holder 100, 200, 300 cc	562360U	562360U	562359U
Cartridge Holder 2.5, 6, 8, 12 oz E-Type	560926-EU	560926-EU	-
Cartridge Holder 2.5, 6, 8, 12 oz T-Type	560926-TU	560926-TU	560535-TU
Cartridge Holder 2.5, 6, 8, 12 oz N-Type	560926-NU	560926-NU	560535-NU
Cartridge Holder 1/10th Gallon - CR300	561785U	561785U	560549U
Cartridge Holder 1/10th Gallon - 801383	561785-NU	561785-NU	560549-NU
Cartridge Holder 20/32 oz E-Type	562297-EU	562297-EU	-
Cartridge Holder 20/32 oz T-Type	562297-TU	562297-TU	560534U
Cartridge Holder 20/32 oz S-Type	562297-SU	562297-SU	-

ROBOT KITS

A range of pre-packaged robot kits specially designed to accommodate the most popular dispense applications. Each kit contains the dispense hardware that a user requires to connect to a Fisnar dispensing robot or dispense controller.

ROBOT KIT 6OZNU

Contains all required bracket components for mounting a 6 oz nylon cartridge retainer to 3, 4, and 5-axis benchtop robots in order to directly dispense fluid material from the cartridge.

Includes:

- 6 oz nylon cartridge retainer
- All additional required dispense accessories

Item Number

ROBOTKIT-6OZNU



ROBOT KIT 300MLU

Contains all required bracket components for mounting a CR300 cartridge retainer to 3, 4, and 5-axis benchtop robots in order to directly dispense fluid material from 1/10th gallon (300 ml) cartridges.

Includes:

- CR300 cartridge retainer
- All additional required dispense accessories

Item Number

ROBOTKIT-300MLU



ROBOTKIT 2601N-VD520SS

Contains all required bracket components for mounting a VD520 diaphragm valve to 3, 4, and 5-axis benchtop robots for the dispensing of low to medium viscosity fluid materials. The system ensures fluid materials are pressurized and fed to the valve in a safe and controlled manner. (Not suitable for use with cyanoacrylate materials).

Includes:

- VD520-SS
- IJ2601N-SS-SP
- All additional required dispense accessories

Item Number

ROBOTKIT-2601N-VD520SS



ROBOT KIT PP450-VD520PT

Contains all required bracket components for mounting a VD520-PT diaphragm valve to 3, 4, and 5-axis benchtop robot for the dispensing of low to medium viscosity fluid materials. The system ensures cyanoacrylate fluid materials are pressurized and fed to the valve in a safe and controlled manner.

Includes:

- VD520-PT
- PP450-GL
- All additional required dispense accessories



Item Number

ROBOTKIT-PP450-VD520PT

ROBOT KIT 300-790U

Contains all required bracket components for mounting both a CR300 cartridge retainer and a 790HP-LF high-pressure spool valve to a 3-axis benchtop robot

Reduces material flow path length from fluid material cartridge to dispense valve, resulting in optimized fluid flow rate.

Includes:

- CR300 cartridge retainer
- Pressure regulator assembly for controlling fluid pressure inside CR300 Cartridge Retainer
- 790HP-LF high pressure spool valve
- All additional required dispense accessories



Item Number

ROBOTKIT-300-790U

ROBOT KIT 300-VMS400

Contains all required bracket components for mounting both a CR300 cartridge retainer and a VMS400 mini spool valve to 3-axis benchtop robot.

Reduces material flow path length from fluid material cartridge to dispense valve, resulting in optimized fluid flow rate.

Includes:

- CR300 cartridge retainer
- Pressure regulator assembly for controlling fluid pressure inside CR300 cartridge retainer
- VMS400 mini spool valve
- All additional required dispense accessories



Item Number

ROBOTKIT-300ML-VMS400

ROBOT KIT 612OZ-VD520SS

Contains all required equipment for mounting either a 6 oz or 12 oz cartridge retainer and a VD520-SS stainless steel diaphragm valve to 3-axis benchtop robot.

Reduces material flow path length from fluid material cartridge to dispense valve, resulting in optimized fluid flow rate.

Includes:

- 6oz and 12oz Nylon cartridge retainers
- Pressure regulator assembly for controlling fluid pressure inside nylon cartridge retainers
- VD520-SS stainless steel diaphragm valve
- All additional required dispense accessories



Item Number

ROBOTKIT-612OZ-VD520SS

TWIN-PACK ROBOT KITS

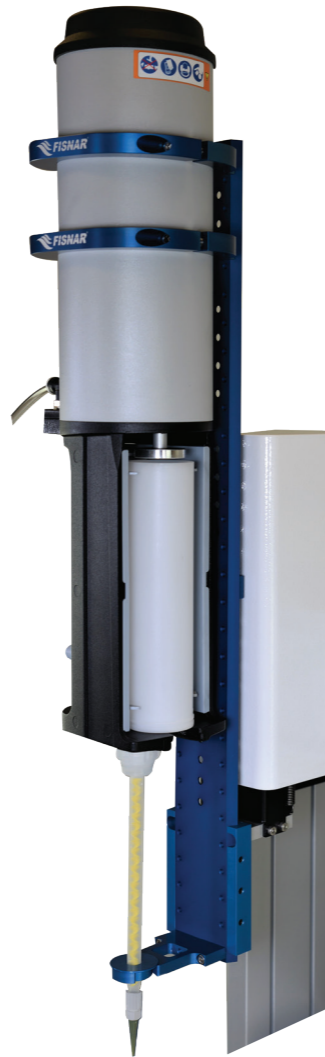
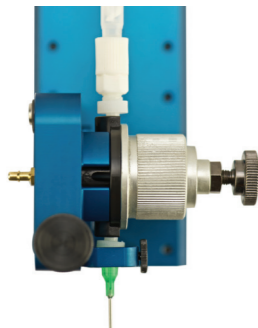
The Fisnar line of twin-pack robot kits are specifically designed to accommodate 50, 200, and/or 400 ml cartridges from a variety of manufacturers for use with the Fisnar line of 3-axis benchtop robots. Designed to hold and dispense cartridge systems. Setup can be used with or without a pinch tube valve for more precise material shut off for thinner materials.

Robot kits suit the following Fisnar robots:

- F4303N ADVANCE
- F4403N ADVANCE
- F4503N ADVANCE
- F4553N ADVANCE
- F4603N ADVANCE
- F6603N ADVANCE-110
- F6603N ADVANCE-220
- F6123N ADVANCE-110
- F6123N ADVANCE-220
- F6123NB ADVANCE-220
- F6233NB ADVANCE-220
- F7403N-HD ADVANCE

Kits come complete with the following accessories to begin production testing:

- DCK800X dispense needle selection kit
- Luer lock adapters
- Sample mix nozzles for each size kit
- Pinch tube samples
- Air input line with 1/4" NPT fitting
- P.E. tubing 1/4" x 0.170" - Natural 40" long
- Air line block assembly



SLOTTED Z-AXIS COVER

When attaching a twin-pack robot kit to a F4000N ADVANCE series robot, it is critical to ensure that the robot has been fitted with a slotted Z-axis cover to ensure machine durability and positional accuracy of the dispense tip during a program cycle.



Item Number	Description
1211-10210037	Slotted Z-Axis Cover (F4303N ADVANCE / F4403N ADVANCE)
1211-30210019	Slotted Z-Axis Cover (F4503N ADVANCE / F4603N ADVANCE)

ROBOT KITS – OTHER AVAILABLE MODELS

ROBOT KIT 50 ML

50 ml (25 ml/25 ml) twin pack cartridge kit with 710PT-U valve for all 3-axis robots. Contains 50 ml pneumatic dispenser suitable for most low to medium viscosities. Compatible with most A-style and B-style Medmix dual cartridges. Ready-to-use out of the box for 1:1 and 2:1 mix ratios, pistons included to convert to 4:1 and 10:1.



Item Number

ROBOTKIT-50MLTPU

ROBOT KIT 200 ML

200 ml (100 ml/100 ml) twin pack cartridge kit with 710PT-U valve for all 3-axis robots. Contains Medmix pneumatic dispenser suitable for most low to medium viscosities. Compatible with most F-style and C-style Medmix 200 ml dual cartridges. Ready-to-use out of the box for 1:1 and 2:1 mix ratios, conversion kits included to adapt to 4:1 and 10:1.



Item Number

ROBOTKIT-EAD200PS-TPU

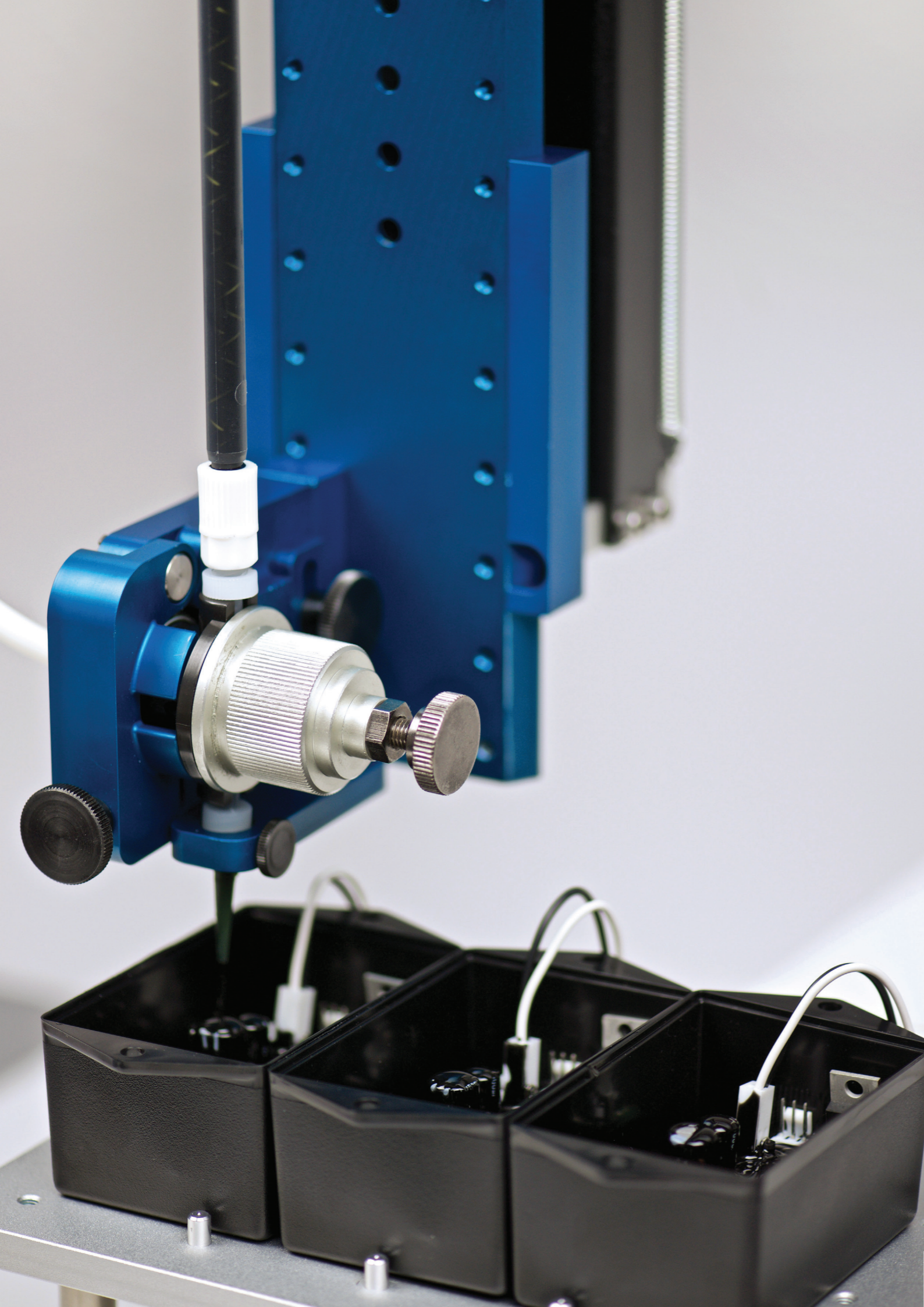
ROBOT KIT 400 ML

400 ml (200 ml/200 ml) twin pack cartridge kit with 710PT-U valve for all 3-axis robots. Contains Medmix pneumatic dispenser with larger air cylinder for thicker, high viscosity materials requiring more thrust. Compatible with most F-style and C-style Medmix 400 ml dual cartridges. Ready-to-use out of the box for 1:1 and 2:1 mix ratios, conversion kits included to adapt to 4:1 and 10:1.



Item Number

ROBOTKIT-EAD400PS-TPU



VISCOSITY

Viscosity: A measure of how strongly a fluid resists flowing.

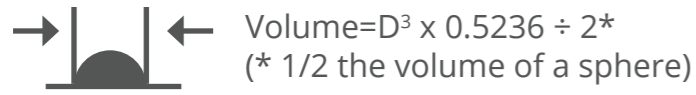
Centipoise: Water is the standard by which all fluids are measured (shown as cps).

Thixotropic: A fluid that is gel-like (toothpaste) at rest, but will move with agitation.

Water @ 70 °F	1 to 3 Centipoise (cps)
Blood	10 Centipoise (cps)
Ethylene Glycol	15 Centipoise (cps)
Motor Oil (SAE 10)	50 Centipoise (cps)
Corn Oil	65 Centipoise (cps)
Maple Syrup	150 Centipoise (cps)
Motor Oil (SAE 40)	250 Centipoise (cps)
Motor Oil (SAE 60)	1,000 Centipoise (cps)
Honey	2,000 Centipoise (cps)
Molasses	5,000 Centipoise (cps)
Chocolate Syrup	10,000 Centipoise (cps)
Ketchup	50,000 Centipoise (cps)
Peanut Butter	150,000 Centipoise (cps)
Lard	1,000,000 Centipoise (cps)

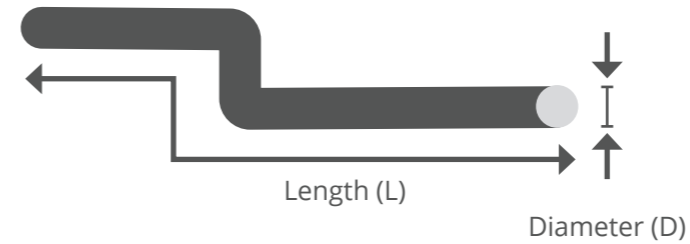
Note: All viscosities are approximate at standard room temperature. Values will be higher at colder temperatures and lower at elevated temperatures.

DISPENSE DOT VOLUME CALCULATIONS



	Volume		Dot Size		Volume		Dot Size
	V cc	0.00003			V cc	0.029	
D	Inch	0.02	•	D	Inch	0.19	●
	mm	0.51			mm	4.83	
	V cc	0.0001			V cc	0.046	
D	Inch	0.03	•	D	Inch	0.22	●
	mm	0.76			mm	5.59	
	V cc	0.0003			V cc	0.099	
D	Inch	0.04	•	D	Inch	0.24	●
	mm	1.02			mm	6.09	
	V cc	0.0005			V cc	0.075	
D	Inch	0.05	•	D	Inch	0.26	●
	mm	1.27			mm	6.6	
	V cc	0.001			V cc	0.116	
D	Inch	0.07	•	D	Inch	0.3	●
	mm	1.78			mm	7.82	
	V cc	0.003			V cc	0.184	
D	Inch	0.09	•	D	Inch	0.35	●
	mm	2.29			mm	8.89	
	V cc	0.006			V cc	0.275	
D	Inch	0.11	•	D	Inch	0.4	●
	mm	2.79			mm	10.16	
	V cc	0.009			V cc	0.391	
D	Inch	0.13	•	D	Inch	0.45	●
	mm	3.30			mm	11.43	
	V cc	0.014			V cc	0.536	
D	Inch	0.15	•	D	Inch	0.5	●
	mm	3.81			mm	12.70	
	V cc	0.21			V cc	1.81	
D	Inch	0.17	•	D	Inch	0.75	●
	mm	4.31			mm	19.05	

DISPENSE BEAD VOLUME CALCULATIONS



$$\text{Volume (cu. in.)} = (\pi \times D^2(\text{in}) \div 4) \times L(\text{in})$$

$$\text{Volume (cc)} = (\pi \times D^2(\text{cm}) \div 4) \times L(\text{cm})$$

Volume of Bead	
Bead Size (D)	0.0295" / 0.75 mm
Volume (cu, in.)	0.0007 x Length (in.)
Volume (cc)	0.0112 x Length (in.)
Bead Size (D)	0.0396" / 1.000 mm
Volume (cu, in.)	0.0012 x Length (in.)
Volume (cc)	0.0199 x Length (in.)
Bead Size (D)	0.0625" (1/16") / 1.588 mm
Volume (cu, in.)	0.0031 x Length (in.)
Volume (cc)	0.0500 x Length (in.)
Bead Size (D)	0.0937" (3/32") / 2.381 mm
Volume (cu, in.)	0.0069 x Length (in.)
Volume (cc)	0.1131 x Length (in.)
Bead Size (D)	0.125" (1/8") / 3.175 mm
Volume (cu, in.)	0.0123 x Length (in.)
Volume (cc)	0.2011 x Length (in.)
Bead Size (D)	0.1875" (3/16") / 4.763 mm
Volume (cu, in.)	0.0276 x Length (in.)
Volume (cc)	0.4525 x Length (in.)

Volume of Bead	
Bead Size (D)	0.250" (1/4") / 6.350 mm
Volume (cu, in.)	0.0491 x Length (in.)
Volume (cc)	0.8044 x Length (in.)
Bead Size (D)	0.3125" (5/16") / 7.938 mm
Volume (cu, in.)	0.0767 x Length (in.)
Volume (cc)	1.2569 x Length (in.)
Bead Size (D)	0.375" (3/8") / 9.525 mm
Volume (cu, in.)	0.1104 x Length (in.)
Volume (cc)	1.8009 x Length (in.)
Bead Size (D)	0.500" (1/2") / 12.700 mm
Volume (cu, in.)	0.1963 x Length (in.)
Volume (cc)	9.2176 x Length (in.)
Bead Size (D)	0.625" (5/8") / 15.875 mm
Volume (cu, in.)	0.3068 x Length (in.)
Volume (cc)	5.0275 x Length (in.)
Bead Size (D)	0.750" (3/4") / 19.050 mm
Volume (cu, in.)	0.4418 x Length (in.)
Volume (cc)	7.2396 x Length (in.)



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