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# CONSUMABLES

Accessories adapted on your needs





All our consumables are qualified and approved in France, precision - manufacture, without silicone and certified to be conform to the industrials demands.

# SYNOPTIC

## POSIDOT NEEDLES



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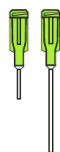


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# POSIDOT NEEDLES

## Straight but flexible

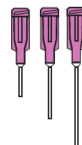
The needles made of polypropylene are burr-free and guarantee an accurate control of dispensing. They are recommended for use with fluids that react to metals or to avoid stripes.



GAGE	12.7mm	38.1mm
15G	Z532115	Z534115
18G	Z532118	Z534118
20G	Z532120	Z534120
25G	Z532125	Z534125

## Perfectly straight stainless steel

PosiDot hub in polypropylene with in polished 304 stainless steel tubing out burr-free



GAGE	6.35mm	12.7mm	25.4mm	38.1mm
14G	Z511114	Z512114	Z513114	Z514114
15G	Z511115	Z512115	Z513115	Z514115
16G	Z511116	Z512116	Z513116	Z514116
18G	Z511118	Z512118	Z513118	Z514118
19G	Z511119	Z512119	Z513119	Z514119
20G	Z511120	Z512120	Z513120	Z514120
21G	Z511121	Z512121	Z513121	Z514121
22G	Z511122	Z512122	Z513122	Z514122
23G	Z511123	Z512123	Z513123	Z514123
25G	Z511125	Z512125	Z513125	Z514125
27G	Z511127	Z512127	Z513127	Z514127
30G	Z511130	Z512130	N/A	N/A
32G	Z511132	Z512132	N/A	N/A

## Teflon® coating

The Teflon® needles are burr-free guaranteed and assure accurate control of dispensing. They are recommended for use with fluids that react or adhere to metals like cyanoacrylates and prevent scratching.

Ø INSIDE	12.7mm	COLORS
0.51mm	Z592121	Grey
0.15mm	Z592125	Pink
	Z5922127	Red

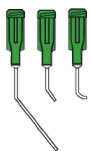
## Conical HiFlow

The precision cone allows to flow a fluid without restriction reducing stringing and ooze. Polyethylene molded with UV light block. These needles are equipped with the PosiDot base.



GAGE	FLEXIBLE	RIGID
14G	Z520114	Z580114
16G	Z520116	Z580116
18G	Z520118	Z580118
20G	Z520120	Z580120
22G	Z520122	Z580122
25G	Z520125	Z580125
27G	Z520127	Z580127

# POSIDOT NEEDLES



### Precisely Bent Stainless Steel

PosiDot hub in polypropylene with in polished 304 stainless steel tubing out burr-free. They are bent at 45 and 90 degrees angles.

GAGE	12.7mm 45°	12.7mm 90°	38.1mm 45°
14G	Z562114	Z572114	Z564114
15G	Z562115	Z572115	Z564115
16G	Z562116	Z572116	Z564116
18G	Z562118	Z572118	Z564118
19G	Z562119	Z572119	Z564119
20G	Z562120	Z572120	Z564120
21G	Z562121	Z572121	Z564121
22G	Z562122	Z572122	Z564122
23G	Z562123	Z572123	Z564123
25G	Z562125	Z572125	Z564125
27G	Z562127	Z572127	Z564127
30G	Z562130	—	—

COLORS	GAGE	DIMENSIONS Ø	
		ID.	OD.
		mm	mm
Olive	14G	1.54	1.83
Amber	15G	1.36	1.65
Dark Grey	16G	1.19	n/a
Green	18G	0.84	1.27
Light Green	19G	0.69	1.07
Pink	20G	0.61	0.91
Purple	21G	0.51	0.82
Blue	22G	0.41	0.72
Orange	23G	0.33	0.65
Red	25G	0.25	0.52
Clear	27G	0.20	0.42
Lavander	30G	0.15	0.31
Yellow	32G	0.10	0.23



### Thick pastes

PosiDot hub in polypropylene with in polished 304 stainless steel tubing out burr-free. A length of 6,35mm designed to use thick pastes or charged pastes.

GAGE	6.35mm
18G	Z511118
20G	Z511120
21G	Z511121



### Thin surface

PosiDot hub in polypropylene with in polished 304 stainless steel tubing out burr-free. The chamfered needle reduces surface tension and enables an easy dispensing of the fluid on thin surfaces.

GAGE	6.35mm
18G	Z511118
20G	Z511120
21G	Z511121



### Anti-UV shield

One-piece shield slides over the tips and blocking light from penetrating the PosiDot polypropylene hub fits at the end of the syringe ideal for UV and light sensitive materials.

SYRINGE	12.7mm	COLORS
5cc	0993971	Noir
3.10-55cc	0999971	Noir

# DISPENSING NEEDLES

## PRECISION NEEDLES



The conical form of these needles makes it possible to let the fluid easily flow with a progressive reduction and loss of charges. The result is that there is a bigger flow than when you use a stainless cannula needle for an identical pressure. Hereby you can work with less pressure in order to manage the material.

- Needle sizes inferior to 50 microns
- Codified and coloured needles
- High accuracy/low costs
- High flow

Code : A-100-00-00- XX (XX - Rate)

GAGE	Ø ID mm	Ø OD mm	
18	1.041	1.245	
19	0.864	1.067	
20	0.686	0.889	
21	0.609	0.813	
23	0.564	0.635	
25	0.437	0.508	
27	0.335	0.406	
30	0.233	0.305	
06	0.16	0.24	
04	0.11	0.20	
02	0.06	0.16	

## OVAL NEEDLES



These needles enable a dispensing of thick materials like putty and epoxies in flat lines.

COLORS	GAGE	Ø OD	
Ambre	15	1.98 x 0.41mm	

## NEEDLES IN POLYPROPYLENE AND P.E.

Flexible needles made in polypropylene and plastic which can be cut at the requested length.



GAGE	Ø ID mm	
14	1.60	
16	1.19	
18	0.84	
20	0.58	

The Teflon® flexible needles in plastic can be cut at the requested length.



GAGE	Ø ID mm	
15	1.32	
18	0.84	
20	0.58	
25	0.25	

# BRUSH NEEDLES

## SERIE B .....



PDS - 1005	PDS - 1006	PDS - 1007	PDS - 1008
Flat	Flat	Flat	Flat
4 mm	5 mm	6 mm	6 mm
42 mm x 6 mm	42 mm x 6 mm	42 mm x 6 mm	42 mm x 6 mm
Caliber : 14,15,18,20,21, 22,23,25,27 G	Caliber : 14,15,18,20,21, 22,23,25,27 G	Caliber : 14,15,18,20,21, 22,23,25,27 G	Caliber : 14,15,18,20,21, 22,23,25,27 G
Flexible or rigid bristle	Flexible or rigid bristle	Soft bristle	Soft bristle



PDS - 1009	PDS - 1010	PDS - 1011	PDS - 1012
Flat	Flat	Flat	Conical
7 mm	10 mm	11 mm	4 mm
42 mm x 6 mm	42 mm x 6 mm	42 mm x 6 mm	42 mm x 6 mm
Caliber : 14,15,18,20,21, 22,23,25,27 G	Caliber : 14,15,18,20,21, 22,23,25,27 G	Caliber : 14,15,18,20,21, 22,23,25,27 G	Caliber : 14,15,18,20,21, 22,23,25,27 G
Soft bristle	Flexible or rigid bristle	Soft bristle	Soft bristle

## SERIE A .....

These brush needles are equipped with a luer lock hub tube in stainless steel wrapped in a nickel-plated tube. There exist 6 different bristle materials going from soft to very hard. They are available with different gages with the same international colour code as the general needles. Other sizes are available on demand.



CAMEL

Stainless steel

16, 18, 22 G



SABLE

Stainless steel

16, 18, 22 G



BRISTLE

Stainless steel

16, 18, 22 G



NYLON

Stainless steel

16, 18, 22 G

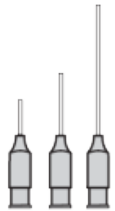


TAKLON

Stainless steel

16, 18, 22 G

# STAINLESS STEEL NEEDLES



Laboratory/ Industry  
Nickel-plated cannula with a polished stainless steel 303 tube. LuerLock connection.



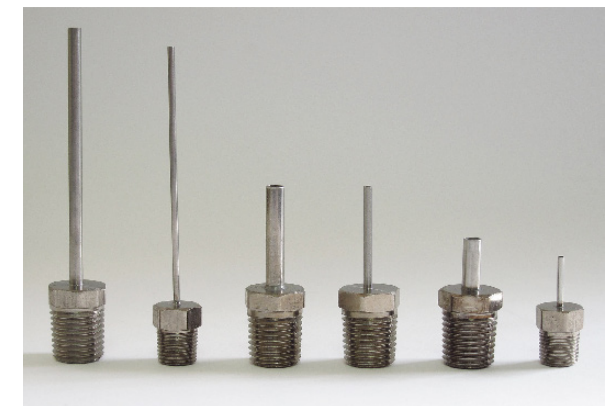
High pressure  
Nickel-plated cannula perfect for high pressures. Polished stainless steel 303 tube. Thread 1/4NPT or 1/8NPT.

GAGE	12.7 mm	25.4 mm	50.8 mm
8G	E121201	E122201	E124201
10G	E121191	E122191	E124191
11G	E121181	E122181	E124181
12G	E121171	E122171	E124171
13G	E121161	E122161	E124161
14G	E121151	E122151	E124151
15G	E121141	E122141	E124141
16G	E121131	E122131	E124131
18G	E121111	E122111	E124111
19G	E121101	E122101	E124101
20G	E121091	E122091	E124091
21G	E121081	E122081	E124081
22G	E121071	E122071	E124071
23G	E121061	E122061	E124061
25G	E121041	E122041	E124041
27G	E121021	E122021	E124021
30G	E121010	E122010	E124010

GAGE	THREAD	12.7 mm	25.4 mm	50.8 mm
7G	1/4 NPT	E161211	E162211	E166211
8G	1/4 NPT	E161201	E162201	E166201
10G	1/4 NPT	E161191	E162191	E166191
11G	1/4 NPT	E161181	E162181	E166181
12G	1/4 NPT	E161171	E162171	E166171
13G	1/4 NPT	E161161	E162161	E166161
14G	1/4 NPT	E161151	E162151	E166151
15G	1/4 NPT	E161141	E162141	E166141
16G	1/4 NPT	E161131	E162131	E166131
18G	1/4 NPT	E161111	E162111	E166111
19G	1/4 NPT	E161101	E162101	E166101
20G	1/4 NPT	E161091	E162091	E166091
7G	1/8 NPT	E151211	E152211	E156211
8G	1/8 NPT	E151201	E152201	E156201
10G	1/8 NPT	E151191	E152191	E156191
11G	1/8 NPT	E151181	E152181	E156181
12G	1/8 NPT	E151171	E152171	E156171
13G	1/8 NPT	E151161	E152161	E156161
14G	1/8 NPT	E151151	E152151	E156151
15G	1/8 NPT	E151141	E152141	E156141
16G	1/8 NPT	E151131	E152113	E156113
18G	1/8 NPT	E151111	E152111	E156111
19G	1/8 NPT	E151101	E152101	E156101
20G	1/8 NPT	E151091	E152091	E156091



Stainless steel needles are made for high or low pressure syringes, dispensers and valves.



These stainless steel needles can be used with high or low pressure dispensers or valves.

## SPECIAL NEEDLES

Special dispensing needles designed par DL Technology are manufactured in one stainless steel block which enables to have the smoothest internal profile and to improve the liberated flow. Their outputs of chamfered needles have an embossed design to enable a close dispensing to the component during the dispensing and it enables to totally control the liberated quantity.

### NEEDLES FOR A "DOUBLE" MICRO DISPENSING

- Applications : solder pastes, filled epoxies and other fluids which need a fixed distance between the needle and the substrate.
- Available sizes: 12 to 32G.
- Length: 6.35mm and 8.89mm



### NEEDLES FOR SINGLE MICRO DISPENSING

- Applications: dispensing in electronics of solder pastes and filled epoxies.
- Available sizes: 12 to 32G.
- Length: 6.35mm and 8.89mm.



### ENCAPSULATION NEEDLES

- Applications: encapsulation and under fill
- Available sizes: 12 to 28G.
- Length: 6.35mm and 8.89mm.



### LUER NEEDLES

- Applications: epoxy dispensing, solder pastes and solder masks, filled adhesives.
- Available sizes: 22 to 28G.
- Length: 6.35mm



### X FORM NEEDLES

- Applications: x form is designed to dispense filled epoxies in "die bonding" applications
- Sizes are going from 0.5x5mm to 5x5mm.
- Length: 6.35mm



### CONICAL NEEDLES

- Applications: any types of application, they are perfect for very loaded or viscous fluids.
- Available sizes: 18 to 21G.
- Length: 6.35mm



### CERAMIC NEEDLES

Ceramic needles are available in standard or Luer Lock version. They are non-porous similar to glass and allow a as fluids flow.

- Applications: Filled epoxies and other fluids.
- Available sizes: 22 to 28G.
- Length: 6.35mm



### PERSONNALIZED NEEDLES

We are able to manufacture needles on request such as multiple outlets, with a specific angle, length and diameter.





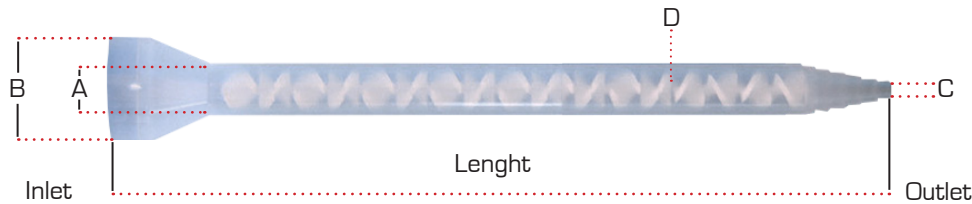
# SELECTION GUIDE

MM	V cc		MM	V cc	
0.5	0.00003	•			
0.8	0.0001	•	7.6	0.116	●
1.0	0.0003	•			
1.3	0.0005	•	8.9	0.184	●
1.8	0.001	•			
2.3	0.003	•	10.2	0.275	●
2.8	0.006	•			
3.3	0.009	•	11.4	0.391	●
3.8	0.014	•			
4.3	0.021	•	12.7	0.536	●
4.8	0.029	•			
5.6	0.046	•	19.1	1.210	●
6.1	0.059	•			

APPLICATIONS	CONIC	METAL	FLEXIBLE	TEFLON®
Very low viscosity fluid		✓	✓	✓
Particle charged paste	✓	✓	++	
Micro-deposit		✓	++	✓
Reactive fluid to metal	✓		✓	✓
Deposits cavity	++	✓	✓	++
Product spreading	✓	++	✓	++
Fast setting adhesive	✓	++	✓	✓
Stripes, lines	✓	✓	✓	++
Fragile surface	✓	++	✓	✓

FLUIDS	CONIC	METAL	FLEXIBLE	TEFLON®
Adhesive	✓	✓	✓	✓
Anaerobic	✓	++	✓	++
Coating product	✓	++	++	
Cyanoacrylate	✓	++	✓	✓
Cyanoacrylate Gel	✓	++	✓	++
Epoxie	✓	✓	✓	
Grease	✓	✓	✓	
Light sensitive adhesives		++	++	
Oil	++	✓	✓	++
Painting	++	✓	✓	
Silver epoxy		++		
Solder paste	✓	✓	++	
Solder mask	✓	✓	++	
Solvent		✓	✓	✓
UV adhesive	✓	++	++	++

# STATIC MIXERS

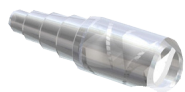


Elements to define: A: Inside diameter / B: Inlet Diameter  
C: Outlet diameter / D: Number of inside elements

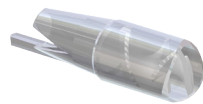
The choice of the mixer is made in function of many parameters:

- Viscosity difference between two mixed products
- The difference in the ratio between the two components
- The expected rate, the length and diameter

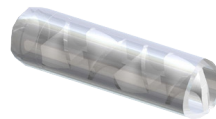
## OUTLET TYPES



■ Staircase



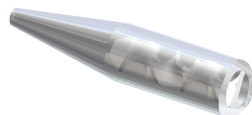
■ Interval



■ Straight



■ Luer Slip



■ Smooth

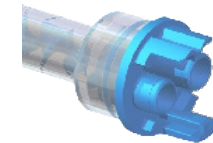


■ Threaded

## INLET TYPES



■ Bell



■ Helix



■ Bayonets



■ Mixpac Design

## PRESENTATION

Static mixers have a long and narrow shape and are screwed to the extremity of the two-component cartridges.

Designed for rapid mixing of two-component fluids, they are made disposable. With the integrated mixing device, the two components are mixed through the elements in order to obtain perfect homogeneity. The contact between the two components is made only a few seconds before the application. The result is an uniform and perfectly controlled dispensing. There are all kinds of inlet and outlet types and sizes.

The turbo version being shorter, reduces space with a similar result.

### ■ Static mixers 50ml

The series of static plastic mixers MA and MX series are designed with a simple connection system : the twist-lock mounting. These mixers are intended primarily for cartridges (or syringes) 50 ml double with Parts A and B separated.

Different models available in function of your mixing ratios and the type of product : epoxy, silicone, urethane, acrylic, polyester etc.

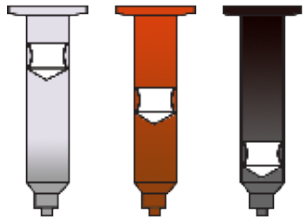
### ■ Static mixers 200 / 400ml

The series of static plastic mixers MC and MCX series is designed with a simple mounting system: 7 / 8- 9 thread.

These mixers are intended primarily for cartridges (or needles) Dual 200 ml and 400ml with Parts A and B separated. Different models to suit your mixing ratios and the type of product: epoxy, silicone, urethane, acrylic etc.

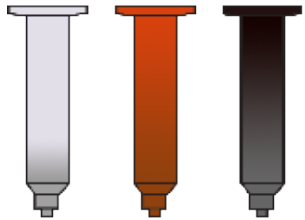
# AIR - PULSE CONSUMABLES

## SYRINGES WITH PLUNGER



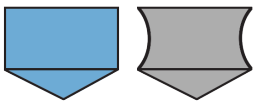
- Clear for normal fluids
  - Amber for UV sensitive fluids
  - Black for sensitive to visible light fluids
- Same number of syringes and plunger, protected by an anti-static bag. Packed in boxes or bulk.

## SYRINGES WITHOUT PLUNGER



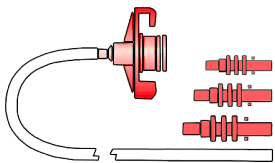
- Clear for normal fluids
  - Amber for UV sensitive fluids
  - Black for sensitive to visible light fluids
- Protected by an anti-static bag. Packed in boxes or bulk.

## PLUNGER



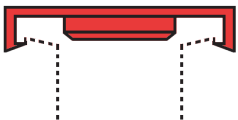
- The pistons push the product while scraping the walls of the syringe. They also maintain the product in the syringe to prevent leakage from the needle.
- No drip for thin to thick fluids
  - Right walls for very thick fluids

## SYRINGES ADAPTER



Made in polypropylene, the adapter in one piece allows to attach the syringe to the dispenser. The system includes a polyurethane tube of 1/8 inch and a connection lock.

## WATERPROOF CAPS



- Caps available in 3, 5, 10, 30 and 55cc
- Free-contaminant pressure caps
- Available in orange and blue

SIZE	CLEAR	AMBER	BLACK	Qty/PACK
3cc	0102051	0102061	0102071	50
5cc	0103131	0103141	0103151	40
10cc	0104171	0104181	0104191	30
30cc	0106211	0106221	0106231	20
55cc	0107471	0107481	0107491	15

SIZE	CLEAR	AMBER	BLACK	Qty/PACK
3cc	0012051	0012061	0012071	50
5cc	0013131	0013141	0013151	40
10cc	0014171	0014181	0014191	30
30cc	0016211	0016221	0016231	20
55cc	0017471	0017481	0017491	15

SIZE	DRIPFLOW	SWFLOW	Qty/PACK
3cc	0022051	0032051	50
5cc	0023131	0033131	40
10cc	0024171	0034171	30
30cc	0026211	0036211	20
55cc	0027211	0097211	15

SIZE	TUBE 0,9m	TUBE 1,9m	3pi WITH FILTER
3cc	B820111	B800111	B840111
5cc	B820211	B800211	B840211
10cc	B820311	B800311	B840311
30cc	B820411	B800411	B840411
55cc	B820511	B800511	B840511

SIZE	REFERENCE	Qty/PACK
3cc	0272051	50
5cc	0273131	40
10cc	0274171	30
30cc	0276211	20
55cc	0277471	15



All our consumables are qualified and approved France, precision - manufacture, silicone-free and certified conform to industrial requirements.

SIZE	CLEAR	AMBER	BLACK	Qty/PACK
3cc	BD03CNR	BD03UVN	BD03UON	50
5cc	BD05CNR	BD05UVN	BD05UON	40
10cc	BD10CNR	BD10UVN	BD10UON	30
30cc	BD30CNR	BD30UVN	BD30UON	20
55cc	BD55CNR	BD55UVN	BD55UON	15

SIZE	REFERENCE	Qty/PACK
3cc	BDETO03	1
5cc	BDETO05	1
10cc	BDETO10	1
30cc	BDETO30	1
55cc	BDETO55	1

SIZE	ORANGE	BLUE	GREEN	Qty/PACK
3cc	BDEC03N	BDEC03N - B	BDEC03N - G	50
5cc	BDEC05N	BDEC05N - B	BDEC05N - G	40
10cc	BDEC10N	BDEC10N - B	BDEC10N - G	30
30cc	BDEC30N	BDEC30N - B	BDEC30N - G	20
55cc	BDEC55N	BDEC55N - B	BDEC55N - G	15

SIZE	BLUE	Qty/PACK
Unique	BDEBO50	50

## PRECIFLUID CONSUMABLES

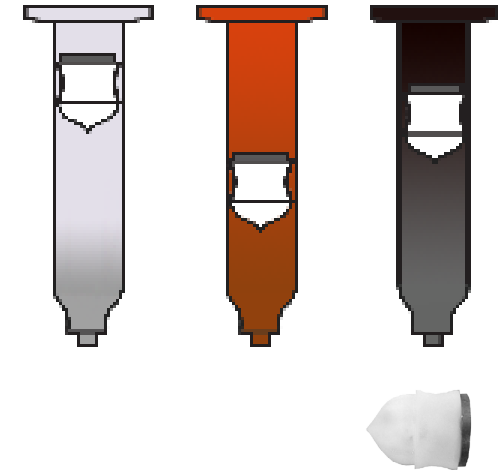
### BarRELDROP SYRINGES WITH PLUNGERS

- Clear for normal fluids
- Amber for UV sensitive fluids
- Black for sensitive to visible light fluids

The rounded design of BarrelDrop improves fluid flow and minimizes turbulence and shear stress during filling and dispensing.

Packed in boxes or bulk.

Metal scraps PistonDrop pistons are molded accurately for uniform movements and a secure connection.



### DROPTUBE HOLDER

The unique design of the DropTube locks the position of the syringe to the gun. They are available in 3,5,10 and 30cc, and are available upon specific request.



### CAP

- Caps available in 3, 5,10, 30 and 55cc.
- Available in orange, blue and green



### TIP CAP

- Caps for contaminant proof sealing
- Available in blue





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[www.gentec-benelux.com](http://www.gentec-benelux.com)

The fluid dispensing being the cornerstone of numerous production chains, Gentec emphasis on this specific need by proposing a wide range of innovative and efficient dispensing equipments.

French leader on this area, its specialty is to design and implement solutions to put down and dispense every type of fluid in an accurate and repeatable way during the process of assembly. Thanks to its vast field of activity and application, no doubt that Gentec will know how to resolve your most complex problems of deposit and brings you the suited recommendations to optimize your production's capacities.

Persuaded that our expertise must be complete, we also supply you tools in order to prepare your fluid (mixture and degassing) and polymerize your glues (UV sunstroke). Our range of consumables (needles, syringes, static mixers etc are also considered as the best in the market.

So we provide you every type of dispensing equipments to allow you to use efficiently your fluids regardless of the viscosity : glues, greases, lubricants, pastes, solvents, silicones, inks, activators, RTV, paints.

Present in more than 20 countries in the world, performance, quality, service and technology are at the center of all our concerns.