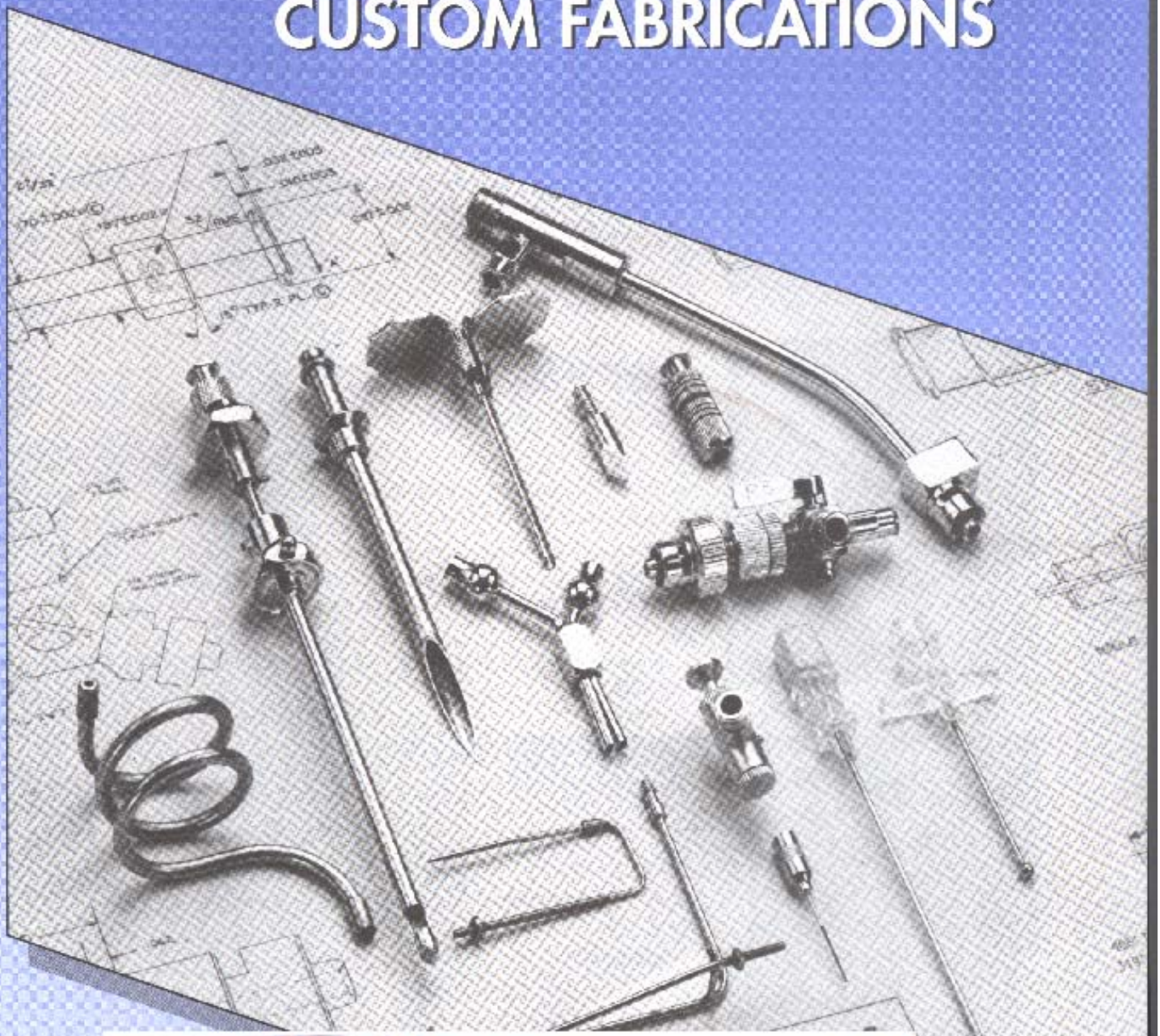
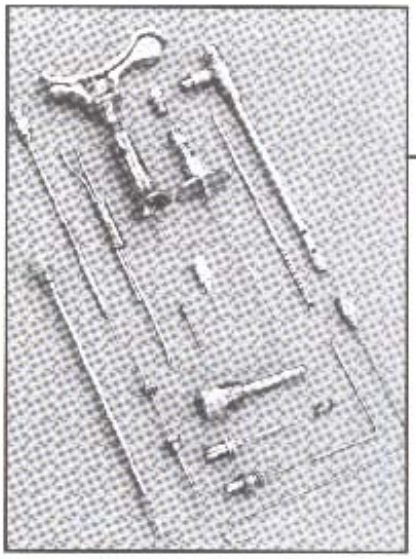
OEM SERVICES

CUSTOM FABRICATIONS



CHROMalytic TECHnology '07
Australian Distributors
Tel: 03 9762 2034 Fax: 03 9761 1169 www.chromtech.net.au info@chromtech.net.au

ISO 9001
EN46001



PLEDGE

"Practical Solutions to Technical Problems"

- product line of Specialty Needles, Cannula, Luer Fittings and Tubular Components can provide practical solutions to your manufacturing problems. Our extensive product line offers quality, economy and reliability.
- Innovative "on-site" tooling capabilities provide you with Custom Fabricated Components to solve your toughest design requirements.
- Our manufacturing experience covers a wide spectrum of designs including delicate Probes, intricate Needle Assemblies, sturdy Valves, Connectors and more.

QUALITY

"Doing It Right The First Time"

- Zero Defects is our objective! SPC (Statistical Process Control) and complete documentation are integrated into all standard procedures.
- Every part we manufacture is a result of the Popper "Total Quality Process" which has become our mark of quality, reliability and value. A Certificate of Compliance is evidence of long-term reliability.
- From Customer Service to Engineering to Manufacturing to Shipping, dedicated to an ongoing process of improvement.

SERVICE

"We Make Service A Science"

- By utilizing the latest, state-of-the-art manufacturing tools and methods...
- By helping OEMs solve manufacturing challenges...
- By commitment to working with each customer from design to final production
- By providing full traceability, Certificates of Compliance and complete documentation for your orders...
- By offering "Just In Time" delivery options, special packaging and bar coding capabilities...
- By providing personalized service and dependable follow-up...
- By valuing your business and becoming a strategic partner in all projects...

Because... We Want To Be The First Company You Call And The Only Company You'll Need!

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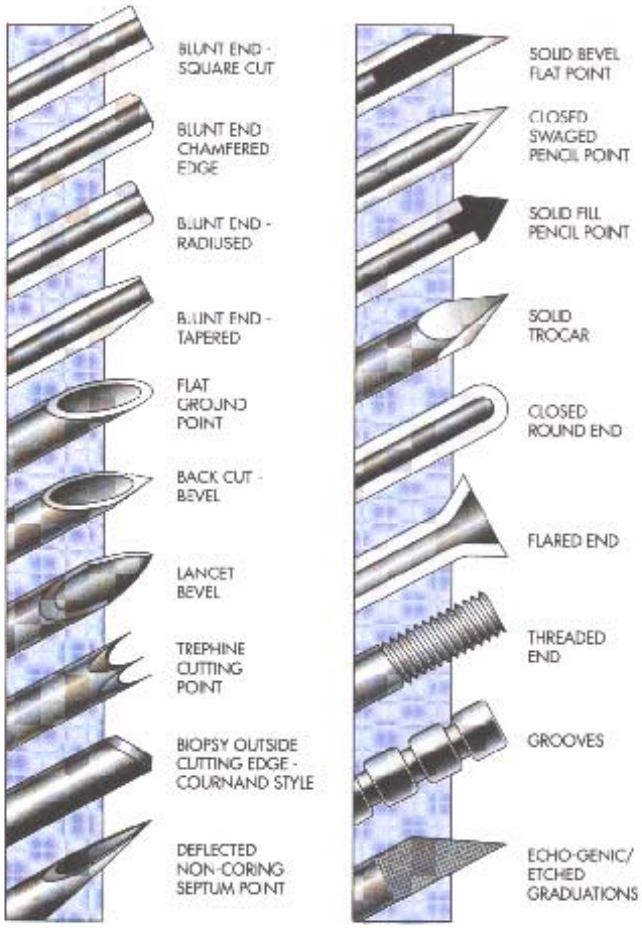
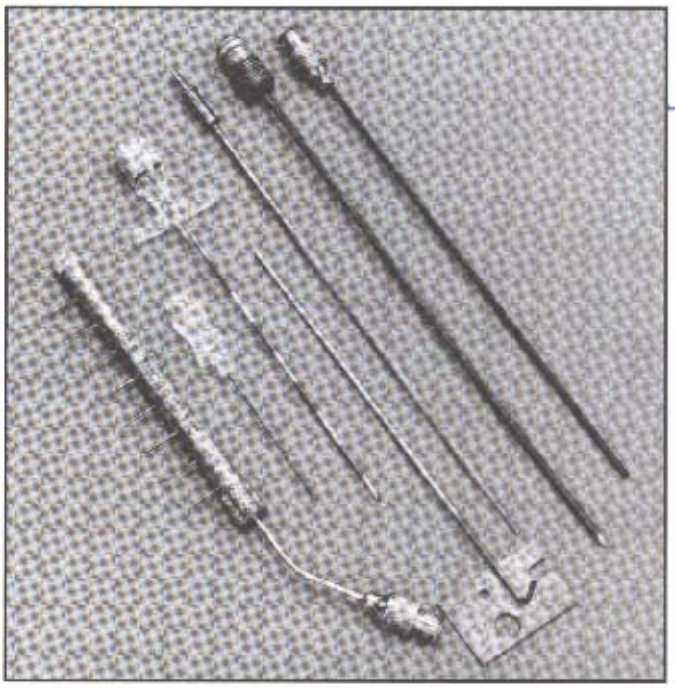
POINT STYLES



- Our extensive in-stock selection of standard tubing sizes range from gauges 6 through 32 and allow us to efficiently and economically produce small prototype runs or a large quantity of components.
- Popper excels in the highly skilled process of fabricating exacting point styles on Needles and Cannula for a wide variety of applications such as: auto-sampling, automatic-dispensing, pressure reduction, in-vitro measurements and more.
- We utilize conventional manufacturing methods as well as advanced technologies such as laser and electro-chemical machining.



popper®

SURFACE TREATMENTS

- Deburring, tumbling, grit blasting, buffing, electro-polishing, passivating, micro-polishing, laser engraving, and annealing, are all finishing operations that Popper provides.
- We offer Teflon and Polymer coating of the O.D. and I.D. of Tubular Components. Both improve the lubricity and hydrophobic properties of the components and help prevent carryover in critical applications by providing an extra smooth surface.
- Popper also offers from a 16 to 32 RMS maximum I.D. surface finish for selected Stainless Steel Tubing Components. This unique surface finish offers many application advantages.

SPECIAL FABRICATION

BENDING & COILING

Tubing ranging from (25Ga) 0.020" thru 0.250" O.D. may be bent almost constriction free with the following parameters:

Minimum Bending Radius:
3X Tubing O.D.

Bend Angle:
2° thru 180° ± 1°

FLARING

Angular expansion of both I.D. and O.D. to provide a lead into I.D. or to assist in molding operation.

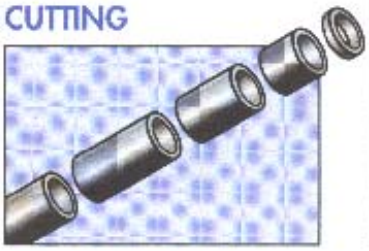
O.D. Range:
23Ga (0.025" O.D.) to
6Ga (0.202" O.D.)

Maximum Flare Diameter:
1.4 x O.D.

"Meeting Manufacturing Challenges"

- Popper & Sons specializes in the precision close tolerance machining of type 304, 316, 321 and 347 Stainless Steels, Brass, Aluminum, Plastics, Titanium and other precious metals.
- Utilizing state-of-the-art Technology and Production Equipment - Computer Assisted Design - CNC Machinery, EDM Machining, Lasers, complete secondary operations and a wide variety of specialty equipment, Popper meets your production demands.

CUTTING



A variety of methods are available to supply Stainles Steel Tubing with Square Burr Free Ends in lengths from 3/8" to 6". Shorter and longer lengths are available on special request.

TUBE TIP REDUCING

Frequently used for accurate fluid flow control, holding optic fibers in place and for recording instrument pen tips.

O.D. Range:
(25Ga) 0.020" thru 0.120"

Minimum Tip I.D.:
0.006"

EDM HOLE DRILLING, NOTCHING & SLOTTING

State-of-the-art EDM Equipment allows for Notching, Slotting and Placing Holes in Stainless Steel Tubing.

Range of Tubing:
25Ga to 6Ga

Hole sizes:
start at 0.010"

SPHERICAL OR PENCIL POINT SWAGING

These two most popular shaped hermatic tube closures are rotary swaged with an extremely smooth surface finish.

Tubing O.D.:
(22Ga) 0.028" thru 0.250"

Pencil Point included angle:
5° to 40°

SEND US YOUR SAMPLES, ENGINEERING DRAWINGS AND OTHER SPECIFICATIONS.
WE WOULD BE PLEASED TO RESPOND WITH A DETAILED QUOTATION.

CUSTOM FABRICATED HYPODERMIC NEEDLES

How to design your own needles...

1st Select from seven Hub Styles and seven Point Styles

2nd Pick your Gauge and Length

ORDERING PROCEDURES *Specify Completely*

• CATALOG NO.	Designates Hub Style.
• GAUGE	Regular Wall Tubing (32 to 6 Ga.) furnished unless Thin Wall (25 to 10 Ga.) is specified.
• LENGTH	3/8" to 24".
• **POINT STYLE**	**Regular Medical Point furnished unless other point style is specified.**
• MINIMUM	One dozen - One gauge, length and point.

POINT STYLES

HUB TYPES

CAT. NO.	DESCRIPTION	15° APPROX. REGULAR MEDICAL POINT	15°-18° APPROX. SHORT BEVEL INTRAVENOUS POINT	30° INTRADERMAL POINT	45° TUBING CONNECTOR FLAT POINT	90° SYRINGE PIPETTING BLUNT END	BENT END **	DEFLECTED NON-CORING SEPTUM POINT **, †
		RANGE OF NEEDLE GUAGES						
7400	Standard FEMALE 5/16" Luer HUB	32 to 6 Ga.	30 to 6 Ga.	30 to 6 Ga.	32 to 6 Ga.	32 to 6 Ga.	27 to 10 Ga.	27 to 11 Ga.
7401	VETERINARY Female Luer HUB	24 to 10 Ga.	24 to 10 Ga.	24 to 10 Ga.	24 to 10 Ga.	24 to 10 Ga.	24 to 10 Ga.	24 to 15 Ga.
7402	WEBSTER HOSE HUB for 3/16" to 1/4" I.D. Rubber or Plastic Tubing	19 to 12 Ga.	19 to 12 Ga.	19 to 12 Ga.	19 to 12 Ga.	19 to 12 Ga.	19 to 12 Ga.	19 to 12 Ga.
7403	FEMALE LUER to MALE LUER HUB (Fits Coaxially into #7400 Needles)	25 to 15 Ga.	25 to 15 Ga.	25 to 15 Ga.	25 to 15 Ga.	25 to 15 Ga.	—	25 to 15 Ga.
7404	Female Luer STAINLESS STEEL HUB	23 to 11 Ga.	23 to 11 Ga.	23 to 11 Ga.	23 to 11 Ga.	23 to 11 Ga.	23 to 11 Ga.	23 to 11 Ga.
7405	Female Luer KEL-F HUB	25 to 10 Ga.	25 to 10 Ga.	25 to 10 Ga.	25 to 10 Ga.	25 to 10 Ga.	—	25 to 15 Ga.
7470	MICRO-MATE® FEMALE LUER HUB (For secure mating plastic to metal luers without stripping)	32 to 6 Ga.	30 to 6 Ga.	30 to 6 Ga.	32 to 6 Ga.	32 to 6 Ga.	27 to 10 Ga.	27 to 11 Ga.

** Deflected and Bent Needles - minimum length is 3/4". † Deflected Point is equivalent to B-D Huber or Hamilton Point Styles 1 and 2

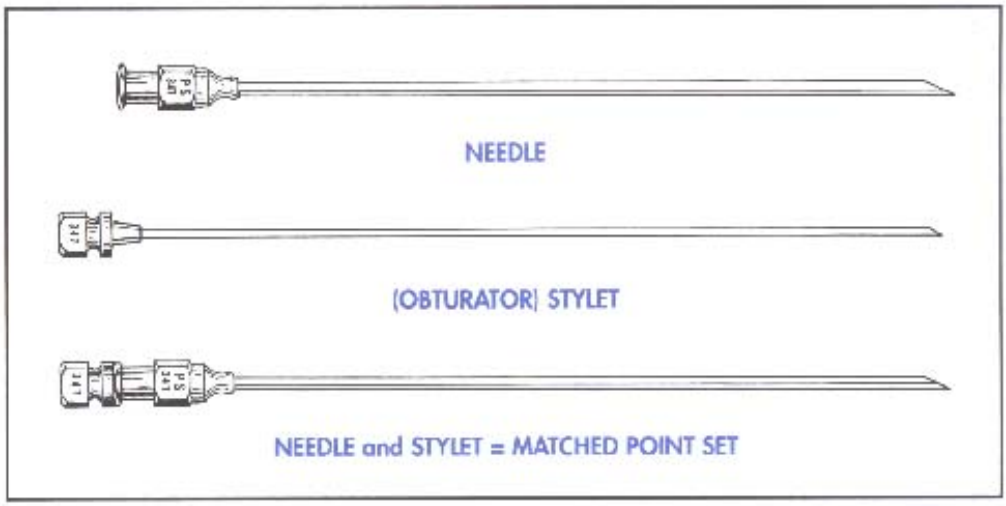
Our technical staff is available for consultation for these or other special requirements...

- 316 Stainless Steel available upon request
- Hypodermic Needles in unlisted lengths - Below 3/8", over 24"
- OEM Applications
- Teflon Coating of I.D. and O.D. available

EXTENDED DELIVERY SHOULD BE ANTICIPATED ON ALL CUSTOM ORDER ITEMS • ALL NEEDLES FURNISHED NON-STERILE

CUSTOM MADE SPINAL ANESTHESIA NEEDLES and MATCHED POINT SETS

To broaden the range of the standard matched point sets, a wider selection of these needles can be obtained in a choice of gauges, lengths and five point styles to meet exacting individual requirements.



- Type 304 Stainless Steel Needles with Stainless Fitted Stylet (Obturators) with "MATCHED BEVELS".
- Chrome Plated Needle Lock Hubs and Obturator (Stylet) Caps with Matching Serial Numbers.
- Point of Needles Aligned with Flat of Hub; Hub Slot and Cap Guide Aligned with Point of Needles.

4 POINT STYLES		REGULAR WALL	THIN WALL*
REGULAR QUINCKE BEVEL	22°	Cat. No. 7420 (For 22" Needles)	Cat. No. 7423 (For 22" Needles)
SHORT QUINCKE BEVEL	30°	Cat. No. 7421 (For 30" Needles)	Cat. No. 7424 (For 30" Needles)
PITKIN BEVEL	45°	Cat. No. 7422 (For 45" Needles)	Cat. No. 7425 (For 45" Needles)
BLUNT END	90°	Cat. No. 7426 (For 90" Needles)	Cat. No. 7427 (For 90" Needles)
ECHO-GENIC TIP		Cat. No. 7428 (Echogenic Tip)	Cat. No. 7429 (Echogenic Tip)

*THIN WALL - 25 to 12 Gauge Inclusive

GAUGES	LENGTHS
26 to 25	1/2" to 4"
24 to 10	1/2" to 9"

ORDERING PROCEDURES
Specify Completely

- CATALOG NO.
- STYLE
- GAUGE
- LENGTH
- MINIMUM One Dozen - One gauge, length and shape.

PACKAGING:
Individually Boxed or Bulk Packaged as required.

PLASTIC HUB TYPE AVAILABLE REQUEST QUOTATION

For Special Requirements Our Technical Staff Is Available For Consultation

EXTENDED DELIVERY SHOULD BE ANTICIPATED ON ALL CUSTOM ORDER ITEMS • ALL NEEDLES FURNISHED NON-STERILE

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CUSTOM FABRICATED PERFORATED NEEDLE SETS

The expanding activities in the Bio-Medical Field have resulted in the development of Procedure Needles for a growing list of sophisticated applications. This select group of Needle Sets with a variety of Point Geometrics allows one to design a unique needle set to suit one's requirements for a particular clinical, research or industrial application.

TYPICAL NEEDLE CANNULA

OBTURATOR

2 PIECE NEEDLE SET

NEEDLE CANNULA + **OBTURATOR** = **2 PIECE NEEDLE SET**

Choice of 10 Styles

Close fitting for occluding needle cannula holes. Cat. No. 7435 and 7437 have matched point obturators.

POINT STYLES

CAT. NO.	DESCRIPTION	
7430	SINGLE HOLE CLOSED PENCIL POINT	
7431	SINGLE HOLE CLOSED BEVEL POINT	
7432	SINGLE HOLE CLOSED ROUND END	
7433	SINGLE HOLE CLOSED TROCAR POINT	
7434	THRU HOLE CLOSED BEVEL POINT	
7435	SINGLE HOLE OPEN BEVEL POINT	
7436	3 SINGLE HOLES CLOSED TROCAR POINT	
7437	THRU HOLE OPEN BEVEL POINT	
7438	3 SINGLE HOLES CLOSED PENCIL POINT	
7439	ZERO DEAD VOLUME PENCIL POINT WITH SIDE HOLE	

ORDERING PROCEDURES *Specify Completely*

- CATALOG NO. — Designates Point Style.
- GAUGE — Regular or Thin Wall Tubing (22 to 12 Ga.).
- LENGTH — 1 1/4" to 7' (Specify exact length).
- POINT STYLE — Choose from 1 of 10.
- MINIMUM — 6 Sets per Cat. No. - One gauge and length only.

CUSTOM FABRICATED DISPOSABLE NEEDLES

CAT. NO.	DESCRIP.	GUAGES	LENGTHS
7406	LUER SLIP-ON	25 to 18 25 to 18	1/8" to 2" 2 1/8" to 3"
7407	LUER LOCK	25 to 18 25 to 18	1/8" to 2" 2 1/8" to 3"

Thin Wall Requirements - Request Quotation

ORDERING PROCEDURES *Specify Completely*

- CATALOG NO. — Designates Hub Style.
- GAUGE — Regular Wall standard.
- LENGTH — 1/8" to 2" or 2 1/8" to 3"
- POINT STYLE — 45° Flat Point or 90° Blunt End
- MINIMUM — 200 needles. One gauge, length and point.

Hub styles may vary slightly for larger quantity orders - please check availability.

EXTENDED DELIVERY SHOULD BE ANTICIPATED ON ALL CUSTOM ORDER ITEMS • ALL NEEDLES FURNISHED NON-STERILE

HYPODERMIC NEEDLE TUBING DESIGNER KITS

These Designer Kits feature Type 304 Stainless Steel Medical Hypodermic Tubing cut to 1 foot lengths with finished ends.

These kits were created as a practical tool to assist the Researcher, Engineer and Technician in developing and evaluating new products, ideas and procedures. Each Kit contains an assortment of similar sizes to provide an extensive range of testing options. Each kit contains 2 pieces per size, and is labeled with gauge size.

Cat. No.	Description
LARGE GAUGE	
9500	6G thru 10G Regular Wall
9501	11G thru 15G Regular Wall
9502	11G thru 15G Thin Wall
MEDIUM GAUGE	
9505	16G thru 20G Regular Wall
9506	16G thru 20G Thin Wall
9507	21G thru 25G Regular Wall
9508	21G thru 25G Thin Wall
FINE GAUGE	
9510	26G thru 32G

BLUNT TUBES with Finished Ends

The extensive choices of gauge size, lengths and point styles listed provide you with the opportunity to "Design your own blunt tubes." Popper offers you the option of receiving "What you want, how you want it", from the design stage through testing and production.

90° BLUNT TUBE

GAUGE	LENGTH	STANDARD TOLERANCE
REGULAR WALL	Cat. No. 7450	
THIN WALL	Cat. No. 7451	
6 - 9 REGULAR & THIN WALL	3/8" - 1"	±.010"
	1 1/8" - 3"	±.015"
	3 1/8" - 6"	±.015"
	6 1/8" - 9"	±.031"
	9 1/8" - 11 15/16"	±.031"
10 - 15 REGULAR & THIN WALL	3/8" - 1"	±.010"
	1 1/8" - 3"	±.015"
	3 1/8" - 6"	±.015"
	6 1/8" - 9"	±.031"
	9 1/8" - 11 15/16"	±.031"
16 - 23 REGULAR & THIN WALL	3/8" - 1"	±.010"
	1 1/8" - 3"	±.015"
	3 1/8" - 6"	±.015"
	6 1/8" - 9"	±.031"
	9 1/8" - 11 15/16"	±.031"
24 - 30 REGULAR & THIN WALL	3/8" - 1"	±.010"
	1 1/8" - 3"	±.015"
	3 1/8" - 6"	±.015"

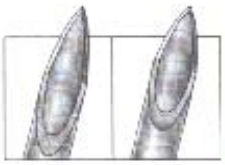
*Minimum order - 100 per gauge

POINTED CANNULA

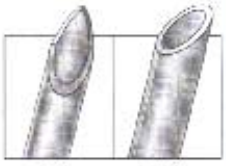
From prototype to production, Popper is your source for pointed cannula.

Ordering custom cannula is easy as 1-2-3...

1 - Select gauge
2 - Select length
3 - Select point style.



12° 18°



30° 45°

SEPTUM POINT

GAUGE	LENGTH	STANDARD TOLERANCE
REGULAR WALL	Cat. No. 7460	
6RW - 9RW	3/8" - 2 1/2"	±.015"
	2 5/8" - 5"	±.015"
	5 1/8" - 10"	±.031"
	10 1/8" - 12"	±.062"
10RW - 15RW	3/8" - 2 1/2"	±.015"
	2 5/8" - 5"	±.015"
	5 1/8" - 10"	±.031"
	10 1/8" - 12"	±.062"
16RW - 23RW	3/8" - 2 1/2"	±.015"
	2 5/8" - 5"	±.015"
	5 1/8" - 10"	±.031"
	10 1/8" - 12"	±.062"
24RW - 30RW	3/8" - 2 1/2"	±.015"
	2 5/8" - 5"	±.015"
	5 1/8" - 10"	±.031"
THIN WALL	Cat. No. 7461	
10TW - 15TW	3/8" - 2 1/2"	±.015"
	2 5/8" - 5"	±.015"
	5 1/8" - 10"	±.031"
	10 1/8" - 12"	±.062"
16TW - 25TW	3/8" - 2 1/2"	±.015"
	2 5/8" - 5"	±.015"
	5 1/8" - 10"	±.031"
	10 1/8" - 12"	±.062"

*Minimum order - 100 per gauge

For additional point configurations and other special fabrication services, consult our technical staff.

316 Stainless Steel Available - Request Quotation

LONGER LENGTHS & SOLID STYLET WIRE AVAILABLE - CALL/FAX YOUR SPECIAL REQUIREMENTS

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HYPODERMIC NEEDLE TUBING

Type 304 Stainless Steel #3 Temper - Full Hard

Applications

- Biomedical
- Chromatography
- Microbiology
- Chemical
- Instrumentation
- Industrial

CAT. NO.	GAUGE	NOMINAL OD INCHES	NOMINAL OD MM	OD RANGE INCHES	NOM. WALL INCHES	NOMINAL ID INCHES	NOMINAL ID MM	ID RANGE INCHES
T06RW	6RW	0.203	5.16	0.2020 - 0.2040	0.0150	0.173	4.39	0.1700 - 0.1760
T07RW	7RW	0.180	4.57	0.1790 - 0.1810	0.0150	0.150	3.81	0.1470 - 0.1530
T8RW	8RW	0.165	4.19	0.1640 - 0.1660	0.0150	0.135	3.43	0.1320 - 0.1380
T9RW	9RW	0.148	3.76	0.1470 - 0.1490	0.0150	0.118	3.00	0.1150 - 0.1210
T10RW	10RW	0.134	3.40	0.1330 - 0.1350	0.0140	0.106	2.69	0.1040 - 0.1080
T10TW	10TW	0.134	3.40	0.1330 - 0.1350	0.0100	0.114	2.90	0.1120 - 0.1160
T11RW	11RW	0.120	3.05	0.1190 - 0.1210	0.0130	0.094	2.39	0.0920 - 0.0960
T11TW	11TW	0.120	3.05	0.1190 - 0.1210	0.0100	0.100	2.54	0.0980 - 0.1020
T12RW	12RW	0.109	2.77	0.1080 - 0.1100	0.0120	0.085	2.16	0.0830 - 0.0870
T12TW	12TW	0.109	2.77	0.1080 - 0.1100	0.0090	0.091	2.31	0.0890 - 0.0930
T13RW	13RW	0.095	2.41	0.0940 - 0.0960	0.0120	0.071	1.80	0.0690 - 0.0730
T13TW	13TW	0.095	2.41	0.0940 - 0.0960	0.0090	0.077	1.96	0.0750 - 0.0790
T13HW	13HW	0.095	2.41	0.0940 - 0.0960	0.0150	0.065	1.65	0.0640 - 0.0660
T14RW	14RW	0.083	2.11	0.0820 - 0.0840	0.0100	0.063	1.60	0.0610 - 0.0650
T14TW	14TW	0.083	2.11	0.0820 - 0.0840	0.0080	0.067	1.71	0.0660 - 0.0685
T14XTW	14XTW	0.083	2.11	0.0820 - 0.0840	0.0055	0.072	1.83	0.0710 - 0.0730
T15RW	15RW	0.072	1.83	0.0715 - 0.0725	0.0090	0.054	1.37	0.0525 - 0.0555
T15TW	15TW	0.072	1.83	0.0715 - 0.0725	0.0060	0.061	1.54	0.0595 - 0.0615
T15XTW	15XTW	0.072	1.83	0.0715 - 0.0725	0.0050	0.063	1.60	0.0615 - 0.0635
T15HW	15HW	0.072	1.83	0.0715 - 0.0725	0.0110	0.050	1.27	0.0480 - 0.0520
T16RW	16RW	0.065	1.65	0.0645 - 0.0655	0.0090	0.047	1.19	0.0455 - 0.0485
T16TW	16TW	0.065	1.65	0.0645 - 0.0655	0.0060	0.054	1.36	0.0525 - 0.0545
T16XTW	16XTW	0.065	1.65	0.0645 - 0.0655	0.0050	0.056	1.42	0.0545 - 0.0565
T16HW	16HW	0.065	1.65	0.0645 - 0.0655	0.0160	0.033	0.84	0.0310 - 0.0350
T17RW	17RW	0.058	1.47	0.0575 - 0.0585	0.0080	0.042	1.07	0.0405 - 0.0435
T17TW	17TW	0.058	1.47	0.0575 - 0.0585	0.0050	0.048	1.21	0.0465 - 0.0485
T17XTW	17XTW	0.058	1.47	0.0575 - 0.0585	0.0040	0.050	1.27	0.0490 - 0.0510
T18RW	18RW	0.050	1.27	0.0495 - 0.0505	0.0085	0.033	0.84	0.0315 - 0.0345
T18TW	18TW	0.050	1.27	0.0495 - 0.0505	0.0060	0.039	0.98	0.0375 - 0.0395
T18XTW	18XTW	0.050	1.27	0.0495 - 0.0505	0.0040	0.042	1.07	0.0410 - 0.0430
T18HW	18HW	0.050	1.27	0.0495 - 0.0505	0.0100	0.030	0.76	0.0280 - 0.0320
T19RW	19RW	0.042	1.07	0.0415 - 0.0425	0.0075	0.027	0.69	0.0255 - 0.0285
T19TW	19TW	0.042	1.07	0.0415 - 0.0425	0.0050	0.033	0.83	0.0315 - 0.0335
T19XTW	19XTW	0.042	1.07	0.0415 - 0.0425	0.0035	0.035	0.89	0.0340 - 0.0360
T19XXTW	19XXTW	0.042	1.07	0.0415 - 0.0425	0.0025	0.037	0.94	0.0360 - 0.0380
T195 RW	19.5 RW	0.039	0.99	0.0385 - 0.0395	0.0060	0.027	0.69	0.0255 - 0.0285
T20RW	20RW	0.036	0.91	0.0355 - 0.0360	0.0060	0.024	0.60	0.0230 - 0.0245
T20TW	20TW	0.036	0.91	0.0355 - 0.0360	0.0050	0.026	0.67	0.0255 - 0.0270
T20XTW	20XTW	0.036	0.91	0.0355 - 0.0360	0.0040	0.028	0.70	0.0270 - 0.0285
T20XXTW	20XXTW	0.036	0.91	0.0355 - 0.0360	0.0030	0.031	0.79	0.0290 - 0.0315
T21RW	21RW	0.032	0.82	0.0320 - 0.0325	0.0060	0.020	0.51	0.0195 - 0.0210
T21TW	21TW	0.032	0.82	0.0320 - 0.0325	0.0045	0.023	0.59	0.0225 - 0.0240
T21XTW	21XTW	0.032	0.82	0.0320 - 0.0325	0.0035	0.025	0.64	0.0245 - 0.0260
T21XXTW	21XXTW	0.032	0.82	0.0320 - 0.0325	0.0025	0.027	0.69	0.0265 - 0.0280
T21HW	21HW	0.032	0.82	0.0320 - 0.0325	0.0080	0.017	0.43	0.0150 - 0.0180

QUOTATIONS ON REQUEST FOR SPECIAL SIZE TUBING AND OTHER METALS

HYPODERMIC NEEDLE TUBING

CAT. NO.	GAUGE	NOMINAL OD INCHES	NOMINAL OD MM	OD RANGE INCHES	NOM. WALL INCHES	NOMINAL ID INCHES	NOMINAL ID MM	ID RANGE INCHES
T22RW	22RW	0.028	0.72	0.0280 - 0.0285	0.0060	0.016	0.41	0.0155 - 0.0170
T22TW	22TW	0.028	0.72	0.0280 - 0.0285	0.0040	0.020	0.50	0.0190 - 0.0205
T22XTW	22XTW	0.028	0.72	0.0280 - 0.0285	0.0030	0.022	0.57	0.0215 - 0.0230
T23RW	23RW	0.025	0.64	0.0250 - 0.0255	0.0060	0.013	0.34	0.0125 - 0.0140
T23TW	23TW	0.025	0.64	0.0250 - 0.0255	0.0040	0.017	0.44	0.0165 - 0.0180
T23XXTW	23XXTW	0.025	0.64	0.0250 - 0.0255	0.0020	0.021	0.54	0.0205 - 0.0220
T24RW	24RW	0.022	0.57	0.0220 - 0.0225	0.0050	0.012	0.31	0.0115 - 0.0130
T24TW	24TW	0.022	0.57	0.0220 - 0.0225	0.0040	0.015	0.37	0.0135 - 0.0155
T25RW	25RW	0.020	0.51	0.0200 - 0.0205	0.0050	0.010	0.26	0.0095 - 0.0110
T25TW	25TW	0.020	0.51	0.0200 - 0.0205	0.0040	0.012	0.31	0.0115 - 0.0130
T25XXTW	25XXTW	0.020	0.51	0.0200 - 0.0205	0.0020	0.016	0.41	0.0155 - 0.0170
T26RW	26RW	0.018	0.46	0.0180 - 0.0185	0.0040	0.010	0.26	0.0095 - 0.0110
T27RW	27RW	0.016	0.41	0.0160 - 0.0165	0.0040	0.008	0.21	0.0075 - 0.0090
T28RW	28RW	0.014	0.36	0.0140 - 0.0145	0.0035	0.007	0.18	0.0065 - 0.0080
T29RW	29RW	0.013	0.34	0.0130 - 0.0135	0.0030	0.007	0.18	0.0065 - 0.0080
T30RW	30RW	0.012	0.31	0.0120 - 0.0125	0.0030	0.006	0.16	0.0055 - 0.0070
T31RW	31RW	0.010	0.26	0.0100 - 0.0105	0.0025	0.005	0.12	0.0040 - 0.0055
T32RW	32RW	0.009	0.23	0.0090 - 0.0095	0.0025	0.004	0.11	0.0035 - 0.0050

Type 316 Stainless Steel .062" (1/16") OD

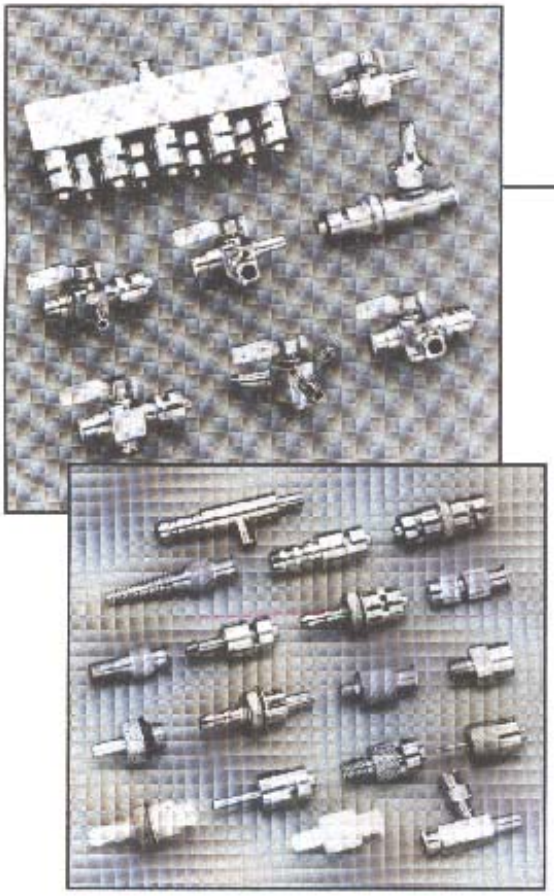
CAT. NO.	DESCRIPTION	LENGTHS TO 5 Feet
T005316	.062" OD x .005" ID	$4.00/ft.
T007316	.062" OD x .007" ID	4.00
T010316	.062" OD x .010" ID	3.00
T020316	.062" OD x .020" ID	3.00
T030316	.062" OD x .030" ID	3.00
T040316	.062" OD x .040" ID	5.50

CALL FOR PRICING ON PRECUT LENGTHS 5 cm, 10 cm, 20 cm AND 30 cm; PASSIVATED AND METHANOL WASHED FOR HPLC REQUIREMENTS

SPECIAL TUBING

- Fully Annealed
- Seamless
- Passivated
- 316 Stainless Steel
- Electropolished
- Drawn To Specification
- OEM Tubular Components

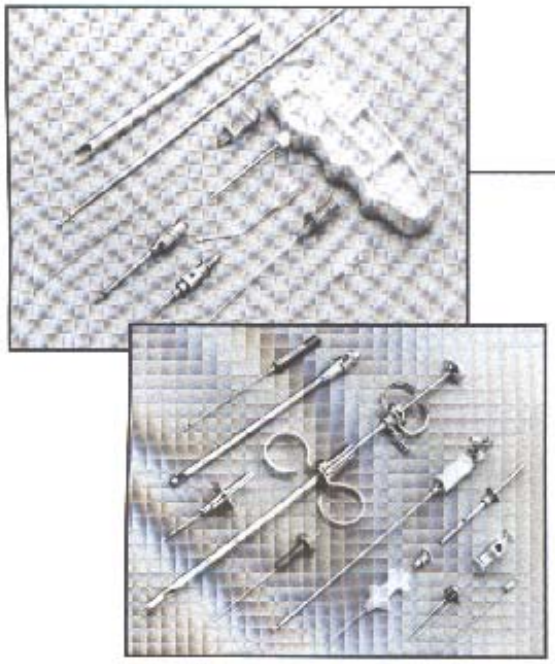
QUOTATIONS ON REQUEST FOR SPECIAL SIZE TUBING AND OTHER METALS



CONNECTIONS

"The Right Fit"

- extensive and expanding selection of Luer Fittings in both Brass and 316 Stainless Steel enables users to make the right connections. Our product line of Stopcocks, Adapters, Tubing Connectors, barbs and threads can be mixed, matched and modified to meet various applications.
- From Bulkhead Panel Mounted Luer Fittings to Threaded Ends to Malleable Connectors to Rotating Stopcocks and Adapters to custom made Luer Assemblies for those with unique requirements, we have **"The Right Fit"**.
- Luer Fittings are ideal for use in fluid flow of medical systems, fluid dispensing equipment, laboratory and research projects. For complete details send for our *"Fittings"* catalog.



POSSIBILITIES

"Expanding The Horizons"

- we strive to expand our technical knowledge, improve manufacturing proficiency and increase product offerings. By working jointly with you, we help develop new products, enhance the value and function of existing ones, and identify new applications.
- Recent innovations include the introduction of standard Trumpet Valves, as well as various Laparoscopic and Endoscopic Instruments, Laser Delivery Systems, Advanced Clinical Chemistry & Chromatography Sampling Probes, and Disposable Products.
- From complex Needle Sets to intricate Fittings, to components for 21st century medical instruments.

Because... We Want To Be The First Company You Call And The Only Company You'll Need!