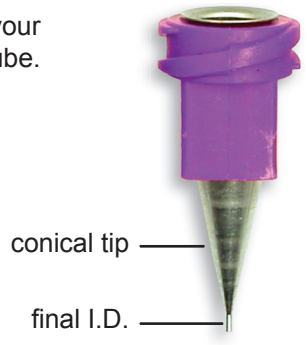
GPD Global Dispense Technology

S Type Nozzles

Optimize Flow and Control

Unique conical design reduces back pressure through the material path improving your existing dispense results. Eliminates clogging due to high pressure build up through a long tube.

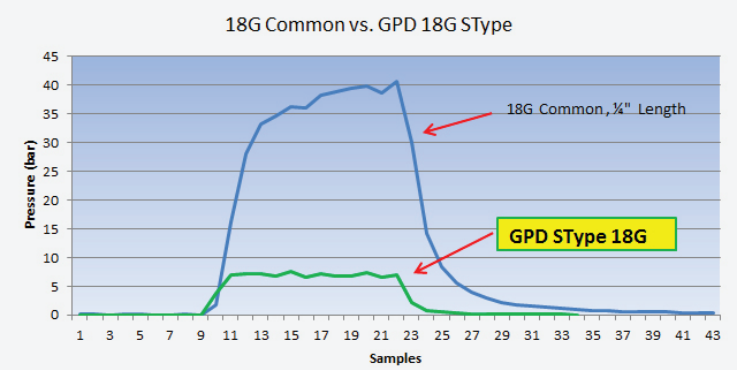


Benefits of S Type Taper Tips

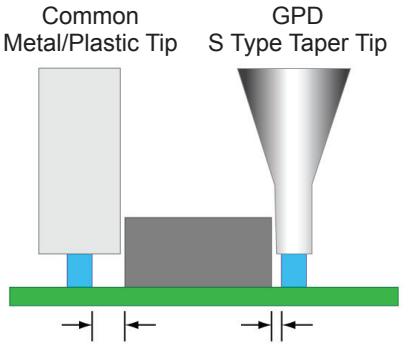
- Use with any Luer nozzle system for immediate improvement
- Improved flow over commonly available Luer nozzles
- Better repeatability
- Less material wicking to nozzle side
- Smallest O.D. for given I.D.
- More rigid for given I.D.
- Can be cleaned for re-use
- Special coatings to meet process requirments

Dramatic Pressure Differential

between a common metal, plastic-housing nozzle and GPD S Type Taper Tips:



Dramatic Difference in Distance Between Nozzle Tip & Component



GPD S Type Taper Nozzles

I.D.	O.D.	Gauge	Metal	Color	Part No.
0.041" / 1.041 mm	0.049" / 1.245 mm	17 G	PB with EN*	Pink	10/4784
0.034" / 0.864 mm	0.042" / 1.067 mm	18 G		Tan	10/4785
0.027" / 0.686 mm	0.035" / 0.889 mm	19 G		Green	10/4786
0.024" / 0.609 mm	0.032" / 0.813 mm	20 G		Light Blue	10/4787
0.022" / 0.564 mm	0.025" / 0.635 mm	21 G		Purple	10/4788
0.017" / 0.437 mm	0.020" / 0.508 mm	22 G		White	10/4789
0.013" / 0.335 mm	0.016" / 0.406 mm	23 G		Red	10/4790
0.009" / 0.233 mm	0.012" / 0.305 mm	25 G		Black	10/4791
Standard Nozzle Sample Kit		**17-25 G**		**see above**	**10/4783**
0.006" / 0.152 mm	0.010" / 0.254 mm	30 G	NS with EN†	Dark Blue	10/4792
0.004" / 0.102 mm	0.008" / 0.200 mm	32 G		Orange	10/4793
0.002" / 0.051 mm	0.006" / 0.150 mm	---	NS‡	Yellow	10/4794
µm Nozzle Sample Kit with .002, .004, .006 I.D.			**see above**	**see above**	**22110499**

K E Y:

* *PB with EN = Phosphor Bronze with Electroless Nickle*
† *NS = Nickle Silver with no plating*
‡ *NS with EN = Nickle Silver with Electroless Nickle*

Contact GPD Global regarding other standard metals.

O.D. Comparison

Gauge	Medical Tubing O.D.	GPD S Type O.D.
17 G	0.058" / 1.473 mm	0.049" / 1.245 mm
18 G	0.050" / 1.270 mm	0.042" / 1.067 mm
19 G	0.042" / 1.067 mm	0.035" / 0.889 mm
20 G	0.036" / 0.909 mm	0.032" / 0.813 mm
21 G	0.032" / 0.812 mm	0.025" / 0.635 mm
22 G	0.028" / 0.711 mm	0.020" / 0.508 mm
23 G	0.025" / 0.642 mm	0.016" / 0.406 mm
25 G	0.020" / 0.516 mm	0.012" / 0.305 mm

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