



**JENSEN GLOBAL**  
Dispensing Solutions

**PRODUCT CATALOG**



Jensen Global's mission is to assist in your manufacturing process by providing the most extensive selection of dispensing production supplies and solutions with the highest level of service and support.

We offer products and application solutions based on specific requirements. Our commitment is to supply equipment and supplies to increase manufacturing and assembly productivity while reducing associated costs. In addition to stock consumables, we have the ability to manufacture custom tips and products for many unique applications.

As an industry leader in dispensing, we have over 200 different combinations of needles and syringes available for the electronics, ink jet, dental, aerospace, industrial and medical manufacturing markets.

Jensen Global, Inc's headquarters and warehouse are located in downtown Santa Barbara, California. We have an extensive distribution and sales representation network throughout North America, Europe and Asia.



Visit our website for more information: [www.jensenglobal.com](http://www.jensenglobal.com)  
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# Needles



Jensen Global provides the most extensive needle selection available. All disposable needles use a threaded hub design made of polypropylene and are bonded using UV adhesive for strength.

Orders for in stock needles received by  
2pm PST ship the same day

**IT Series** needles are color coded based on the international standard and are made with polypropylene luer lock hubs with 304 stainless steel tubing. They are bonded with a clear UV adhesive for exceptional strength. The luer lock utilizes an outside thread design for secure locking onto a syringe or valve.

Gauge	1/2 inch needles			1 inch needles			1.5 inch needles		
	Bag (50)	Box (50)	Bulk (1K)	Bag (50)	Box (50)	Bulk (1K)	Bag (50)	Box (50)	Bulk (1K)
14	JG14-0.5X	JG14-0.5P	JG14-0.5	JG14-1.0X	JG14-1.0P	JG14-1.0	JG14-1.5X	JG14-1.5P	JG14-1.5
15	JG15-0.5X	JG15-0.5P	JG15-0.5	JG15-1.0X	JG15-1.0P	JG15-1.0	JG15-1.5X	JG15-1.5P	JG15-1.5
16	JG16-0.5X	JG16-0.5P	JG16-0.5	JG16-1.0X	JG16-1.0P	JG16-1.0	JG16-1.5X	JG16-1.5P	JG16-1.5
17	JG17-0.5X	JG17-0.5P	JG17-0.5	JG17-1.0X	JG17-1.0P	JG17-1.0	JG17-1.5X	JG17-1.5P	JG17-1.5
18	JG18-0.5X	JG18-0.5P	JG18-0.5	JG18-1.0X	JG18-1.0P	JG18-1.0	JG18-1.5X	JG18-1.5P	JG18-1.5
19	JG19-0.5X	JG19-0.5P	JG19-0.5	JG19-1.0X	JG19-1.0P	JG19-1.0	JG19-1.5X	JG19-1.5P	JG19-1.5
20	JG20-0.5X	JG20-0.5P	JG20-0.5	JG20-1.0X	JG20-1.0P	JG20-1.0	JG20-1.5X	JG20-1.5P	JG20-1.5
21	JG21-0.5X	JG21-0.5P	JG21-0.5	JG21-1.0X	JG21-1.0P	JG21-1.0	JG21-1.5X	JG21-1.5P	JG21-1.5
22	JG22-0.5X	JG22-0.5P	JG22-0.5	JG22-1.0X	JG22-1.0P	JG22-1.0	JG22-1.5X	JG22-1.5P	JG22-1.5
23	JG23-0.5X	JG23-0.5P	JG23-0.5	JG23-1.0X	JG23-1.0P	JG23-1.0	JG23-1.5X	JG23-1.5P	JG23-1.5
24	JG24-0.5X	JG24-0.5P	JG24-0.5	JG24-1.0X	JG24-1.0P	JG24-1.0	JG24-1.5X	JG24-1.5P	JG24-1.5
25	JG25-0.5X	JG25-0.5P	JG25-0.5	JG25-1.0X	JG25-1.0P	JG25-1.0	JG25-1.5X	JG25-1.5P	JG25-1.5
26	JG26-0.5X	JG26-0.5P	JG26-0.5	JG26-1.0X	JG26-1.0P	JG26-1.0	JG26-1.5X	JG26-1.5P	JG26-1.5
27	JG27-0.5X	JG27-0.5P	JG27-0.5	JG27-1.0X	JG27-1.0P	JG27-1.0	JG27-1.5X	JG27-1.5P	JG27-1.5
30	JG30-0.5X	JG30-0.5P	JG30-0.5	JG30-1.0X	JG30-1.0P	JG30-1.0	-	-	-



**IT Series Custom** length needles are available in stock 5/16", 6/16", 2", and 3". Other lengths available.

Gauge	5/16 inch needles			6/16 inch needles		2 inch needles		3 inch needles	
	Bag (50)	Box (50)	Bulk (1K)	Bag (50)	Bulk (1K)	Bag (50)	Bulk (1K)	Bag (50)	Bulk (1K)
14	-	-	-	-	-	JG14-2.0X	JG14-2.0	JG14-3.0X	JG14-3.0
16	-	-	-	-	-	JG16-2.0X	JG16-2.0	JG16-3.0X	JG16-3.0
18	JG18-516X	JG18-516P	JG18-516	JG18-0.375X	JG18-0.375	JG18-2.0X	JG18-2.0	JG18-3.0X	JG18-3.0
20	JG20-516X	JG20-516P	JG20-516	JG20-0.375X	JG20-0.375	JG20-2.0X	JG20-2.0	JG20-3.0X	JG20-3.0
22	-	-	-	JG22-0.375X	JG22-0.375	JG22-2.0X	JG22-2.0	JG22-3.0X	JG22-3.0
25	-	-	-	JG25-0.375X	JG25-0.375	-	-	-	-
27	JG27-516X	JG27-516P	JG27-516	-	-	-	-	-	-
30	JG30-516X	JG30-516P	JG30-516	-	-	-	-	-	-



**IT Series 45° & 90°** angled needles are bent with a smooth radius, 1/4" from the dispensing tip.

Gauge	1/2 inch needles			1 inch needles			1.5 inch needles		
	Bag (50)	Box (50)	Bulk (1K)	Bag (50)	Box (50)	Bulk (1K)	Bag (50)	Box (50)	Bulk (1K)
15	JG15-0.5X*	JG15-0.5P*	JG15-0.5*	-	-	-	-	-	-
18	JG18-0.5X*	JG18-0.5P*	JG18-0.5*	JG18-1.0X*	JG18-1.0P*	JG18-1.0*	JG18-1.5X*	JG18-1.5P*	JG18-1.5*
20	JG20-0.5X*	JG20-0.5P*	JG20-0.5*	JG20-1.0X*	JG20-1.0P*	JG20-1.0*	JG20-1.5X*	JG20-1.5P*	JG20-1.5*
22	JG22-0.5X*	JG22-0.5P*	JG22-0.5*	JG22-1.0X*	JG22-1.0P*	JG22-1.0*	JG22-1.5X*	JG22-1.5P*	JG22-1.5*
25	JG25-0.5X*	JG25-0.5P*	JG25-0.5*	JG25-1.0X*	JG25-1.0P*	JG25-1.0*	JG25-1.5X*	JG25-1.5P*	JG25-1.5*
27	JG27-0.5X*	JG27-0.5P*	JG27-0.5*	JG27-1.0X*	JG27-1.0P*	JG27-1.0*	JG27-1.5X*	JG27-1.5P*	JG27-1.5*
30	JG30-0.5X*	JG30-0.5P*	JG30-0.5*	-	-	-	-	-	-

\* Insert degree bend (45 or 90) in place of asterik: example (JG18-0.5X-45 or JG20-1.5-90).  
Custom bend location and varying degree bends are available upon special request.



## IT Series, Custom and 45° & 90° Needle Specifications

Gauge	Color	Inside Diameter		Outside Diameter	
		In	mm	In	mm
14	Olive	0.069	1.753	0.083	2.108
15	Orange	0.059	1.499	0.072	1.829
16	Purple	0.053	1.346	0.065	1.651
17	White	0.048	1.219	0.058	1.473
18	Pink	0.038	0.965	0.049	1.245
19	Brown	0.033	0.838	0.043	1.092
20	Yellow	0.025	0.635	0.036	0.914
21	Green	0.022	0.559	0.033	0.838
22	Black	0.020	0.508	0.028	0.711
23	Light Blue	0.016	0.406	0.025	0.635
24	Red	0.015	0.381	0.022	0.559
25	Blue	0.012	0.305	0.020	0.508
26	Cream	0.011	0.279	0.019	0.483
27	Tan	0.009	0.229	0.016	0.406
30	Lavender	0.006	0.152	0.012	0.305

Packaging options include clear bags of 50, special ESD-safe (conductive) boxes of 50, or bulk bags of 1000 needles.



A variation to the IT & NT Series (stainless steel tube) needles, Tapered, Teflon® and Peek™ needles offer excellent compatibility with many adhesives and materials that are difficult to dispense.



Orders for in stock needles received by  
2pm PST ship the same day

**Tapered** needles are made of polypropylene, reduce material back pressure, offer scratch free dispensing, and are 1.25" in length. Hub connections are a luer lock with an outside thread design.

**1.25 Inch tapered**

Gauge	Bag (50)	Box (50)	Bulk (1K)
14	JG14-1.25TTX	JG14-1.25TTP	JG14-1.25TT
16	JG16-1.25TTX	JG16-1.25TTP	JG16-1.25TT
18	JG18-1.25TTX	JG18-1.25TTP	JG18-1.25TT
20	JG20-1.25TTX	JG20-1.25TTP	JG20-1.25TT
22	JG22-1.25TTX	JG22-1.25TTP	JG22-1.25TT
24	JG24-1.25TTX	JG24-1.25TTP	JG24-1.25TT



**Teflon®** needles are made with flexible Teflon® tubing, bonded with UV adhesive, and have an outside luer hub. They offer scratch-free dispensing and are excellent with cyanoacrylates and anaerobics.

**1/2 inch teflon**

Gauge	Bag (50)	Box (50)	Bulk (1K)
14	JG14-0.5TX	JG14-0.5TP	JG14-0.5T
16	JG16-0.5TX	JG16-0.5TP	JG16-0.5T
18	JG18-0.5TX	JG18-0.5TP	JG18-0.5T
20	JG20-0.5TX	JG20-0.5TP	JG20-0.5T
22	JG22-0.5TX	JG22-0.5TP	JG22-0.5T
23	JG23-0.5TX	JG23-0.5TP	JG23-0.5T
24	JG24-0.5TX	JG24-0.5TP	JG24-0.5T
30	JG30-0.5TX	JG30-0.5TP	JG30-0.5T

**2 inch teflon**

Bag (50)	Bulk (1K)
JG14-2.0TX	JG14-2.0T
JG16-2.0TX	JG16-2.0T
JG18-2.0TX	JG18-2.0T
JG20-2.0TX	JG20-2.0T
JG22-2.0TX	JG22-2.0T
-	-
-	-
-	-



**Peek™** needles offer material compatibility similar to Teflon® yet are more rigid for accurate material placement.

**1/2 inch peek**

Gauge	Bag (50)	Box (50)	Bulk (1K)
14	JG14-0.5PKX	JG14-0.5PKP	JG14-0.5PK
18	JG18-0.5PKX	JG18-0.5PKP	JG18-0.5PK
30	JG30-0.5PKX	JG30-0.5PKP	JG30-0.5PK

**2 inch peek**

Gauge	Bag (50)	Box (50)	Bulk (1K)
14	JG14-2.0PKX	-	JG14-2.0PK
18	JG18-2.0PKX	-	JG18-2.0PK



**Oval** needles produce a flat deposit of thick materials such as pastes and sealants for specialty applications.

**1/2 inch oval**

Gauge	Bag (50)	Box (50)	Bulk (1K)
15	JG15-0.5VX	JG15-0.5VP	JG15-0.5V
18	JG18-0.5VX	JG18-0.5VP	JG18-0.5V
20	JG20-0.5VX	JG20-0.5VP	JG20-0.5V



## Tapered Specifications

Ga	Color	Inside Diam.		Length
		In	mm	
14	Salmon/orange	0.069	1.753	1.25"
16	Grey	0.059	1.499	1.25"
18	Green	0.053	1.346	1.25"
20	Pink	0.048	1.219	1.25"
22	Blue	0.038	0.965	1.25"
24	Red	0.033	0.838	1.25"

## Teflon® Specifications

Ga	Color	Inside Diam.		Outside Diam.	
		In	mm	In	mm
14	Olive	0.066	1.676	0.082	2.083
16	Purple	0.053	1.346	0.065	1.651
18	Pink	0.042	1.067	0.054	1.372
20	Yellow	0.034	0.864	0.046	1.168
22	Black	0.028	0.711	0.040	1.016
23	Light Blue	0.026	0.660	0.038	0.965
24	Red	0.022	0.559	0.034	0.864
30	Lavender	0.012	0.305	0.024	0.610

## Peek™ Specifications

Ga	Color	Inside Diam.		Outside Diam.	
		In	mm	In	mm
14	Olive	0.066	1.676	*	*
18	Pink	0.042	1.067	*	*
30	Lavender	0.012	0.305	*	*

\* see [www.jensenglobal.com](http://www.jensenglobal.com) for further specifications

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PEEK™ is a trademark of Victrex PLC



# Needles



## NT Series Specifications

Gauge	Color	ID In	ID mm	OD In	ODmm
14	White	0.063	1.6	0.083	2.11
15	Brown	0.052	1.32	0.072	1.83
16	Charcoal	0.047	1.19	0.065	1.65
18	Green	0.033	0.84	0.050	1.27
19	Light Green	0.027	0.69	0.042	1.07
20	Pink	0.023	0.58	0.036	0.91
21	Purple	0.020	0.51	0.032	0.81
22	Blue	0.016	0.41	0.028	0.71
23	Orange	0.013	0.33	0.025	0.64
25	Red	0.010	0.25	0.020	0.51
27	Grey	0.008	0.20	0.016	0.41
30	Lavender	0.006	0.15	0.012	0.31

**NT Series** needles are manufactured with polished 304 stainless steel and are cut burr-free. They have outside threaded hubs and are color coded using the national color standard.

Gauge	1/2 inch needles		1 inch needles		1.5 inch needles	
	Bag (50)	Bulk (1000)	Bag (50)	Bulk (1000)	Bag (50)	Bulk (1000)
14	JG14-0.5HPX	JG14-0.5HP	JG14-1.0HPX	JG14-1.0HP	JG14-1.5HPX	JG14-1.5HP
15	JG15-0.5HPX	JG15-0.5HP	JG15-1.0HPX	JG15-1.0HP	JG15-1.5HPX	JG15-1.5HP
16	JG16-0.5HPX	JG16-0.5HP	JG16-1.0HPX	JG16-1.0HP	JG16-1.5HPX	JG16-1.5HP
18	JG18-0.5HPX	JG18-0.5HP	JG18-1.0HPX	JG18-1.0HP	JG18-1.5HPX	JG18-1.5HP
19	JG19-0.5HPX	JG19-0.5HP	JG19-1.0HPX	JG19-1.0HP	JG19-1.5HPX	JG19-1.5HP
20	JG20-0.5HPX	JG20-0.5HP	JG20-1.0HPX	JG20-1.0HP	JG20-1.5HPX	JG20-1.5HP
21	JG21-0.5HPX	JG21-0.5HP	JG21-1.0HPX	JG21-1.0HP	JG21-1.5HPX	JG21-1.5HP
22	JG22-0.5HPX	JG22-0.5HP	JG22-1.0HPX	JG22-1.0HP	JG22-1.5HPX	JG22-1.5HP
23	JG23-0.5HPX	JG23-0.5HP	JG23-1.0HPX	JG23-1.0HP	JG23-1.5HPX	JG23-1.5HP
25	JG25-0.5HPX	JG25-0.5HP	JG25-1.0HPX	JG25-1.0HP	JG25-1.5HPX	JG25-1.5HP
27	JG27-0.5HPX	JG27-0.5HP	JG27-1.0HPX	JG27-1.0HP	JG27-1.5HPX	JG27-1.5HP
30	JG30-0.5HPX	JG30-0.5HP	-	-	-	-



**All Metal, Reusable** needles are made with a chrome plated hub and 304 stainless tubing. Sold in bags of 12 needles. Made to order.

## Metal Specifications

Gauge	1/2" needles	1" needles	1.5" needles	2" needles	ID In	IDmm	OD In	ODmm
05	JG05M-0.5D	JG05M-1.0D	JG05M-1.5D	JG05M-2.0D	0.189	4.801	0.219	5.563
06	JG06M-0.5D	JG06M-1.0D	JG06M-1.5D	JG06M-2.0D	0.173	4.394	0.203	5.156
07	JG07M-0.5D	JG07M-1.0D	JG07M-1.5D	JG07M-2.0D	0.150	3.810	0.180	4.457
08	JG08M-0.5D	JG08M-1.0D	JG08M-1.5D	JG08M-2.0D	0.135	3.429	0.165	4.191
09	JG09M-0.5D	JG09M-1.0D	JG09M-1.5D	JG09M-2.0D	0.118	2.997	0.148	3.759
10	JG10M-0.5D	JG10M-1.0D	JG10M-1.5D	JG10M-2.0D	0.106	2.692	0.134	3.404
11	JG11M-0.5D	JG11M-1.0D	JG11M-1.5D	JG11M-2.0D	0.094	2.388	0.120	3.048
12	JG12M-0.5D	JG12M-1.0D	JG12M-1.5D	JG12M-2.0D	0.085	2.159	0.109	2.769
13	JG13M-0.5D	JG13M-1.0D	JG13M-1.5D	JG13M-2.0D	0.071	1.803	0.095	2.413
14	JG14M-0.5D	JG14M-1.0D	JG14M-1.5D	JG14M-2.0D	0.063	1.600	0.083	2.108
15	JG15M-0.5D	JG15M-1.0D	JG15M-1.5D	JG15M-2.0D	0.054	1.372	0.072	1.829
16	JG16M-0.5D	JG16M-1.0D	JG16M-1.5D	JG16M-2.0D	0.047	1.194	0.065	1.651
17	JG17M-0.5D	JG17M-1.0D	JG17M-1.5D	JG17M-2.0D	0.042	1.067	0.058	1.473
18	JG18M-0.5D	JG18M-1.0D	JG18M-1.5D	JG18M-2.0D	0.033	0.838	0.050	1.270
19	JG19M-0.5D	JG19M-1.0D	JG19M-1.5D	JG19M-2.0D	0.027	0.686	0.042	1.067
20	JG20M-0.5D	JG20M-1.0D	JG20M-1.5D	JG20M-2.0D	0.024	0.597	0.036	0.902
21	JG21M-0.5D	JG21M-1.0D	JG21M-1.5D	JG21M-2.0D	0.020	0.508	0.032	0.813
22	JG22M-0.5D	JG22M-1.0D	JG22M-1.5D	JG22M-2.0D	0.016	0.406	0.028	0.711
23	JG23M-0.5D	JG23M-1.0D	JG23M-1.5D	JG23M-2.0D	0.013	0.330	0.025	0.635
24	JG24M-0.5D	JG24M-1.0D	JG24M-1.5D	JG24M-2.0D	0.012	0.305	0.022	0.559
25	JG25M-0.5D	JG25M-1.0D	JG25M-1.5D	JG25M-2.0D	0.010	0.254	0.020	0.508
26	JG26M-0.5D	JG26M-1.0D	JG26M-1.5D	JG26M-2.0D	0.010	0.254	0.018	0.457
27	JG27M-0.5D	JG27M-1.0D	JG27M-1.5D	JG27M-2.0D	0.008	0.203	0.016	0.406
30	JG30M-0.5D	-	-	-	0.006	0.152	0.012	0.305



**Scabbards (Needle Tip Caps) & Needle Covers** protect dispensing needles when not being used. Scabbards cover and seal the tip to prevent drying or curing of material in the needle or syringe, whereas needle covers protect only the needle from bending and fit over part of the hub.

Scabbards			
Gauge	Bag (50)	Bulk (1000)	Description
14	JG14-SCX	JG14-SC	14 gauge for IT, NT & all tapered needles (14,16,18,20,22,24)
16	JG16-SCX	JG16-SC	16 gauge scabbard for IT & NT Series needles
18	JG18-SCX	JG18-SC	18 gauge scabbard for IT & NT Series needles
20	JG20-SCX	JG20-SC	20 gauge scabbard for IT & NT Series needles
22	JG22-SCX	JG22-SC	22 gauge scabbard for IT & NT Series needles

Needle covers			
Gauge	Bag (50)	Bulk (1000)	Description
All gauges	JGNCX	JGNC	Needle Cover for 0.5" & 1.0" for IT & NT Series needles
All gauges	JGNC1.5X	JGNC1.5	Needle Cover for 1.5" IT & NT Series needles



**Air Operated** syringes consist of a heavy duty syringe barrel reservoir plus a stopper, which is available in a grey plastic drip-free design, a straight wall high viscosity blue stopper, or a thermal rubber white stopper. These syringes are sold in convenient pre-packed bags or in economical bulk cases.



**Orders for in stock syringes received by 2pm PST ship the same day**

## Luer Lock Syringe Barrels with Stoppers

Syringe Barrels are manufactured with a heavy flange, custom designed for air dispensing and include grey plastic, drip-free stoppers (50cc is made of thermal rubber). Conveniently packaged with barrels and stoppers in one bag.

Size	Clear	Black UV	Yellow UV	Qty/bag
03cc	JG3A-50	JG3A-50-UVB	JG3A-50-UVA	50
05cc	JG5A-40	JG5A-40-UVB	JG5A-40-UVA	40
10cc	JG10A-30	JG10A-30-UVB	JG10A-30-UVA	30
30cc	JG30A-20	JG30A-20-UVB	JG30A-20-UVA	20
50cc	JG50A-10	-	-	10

\* Add a **B** at the end of any barrel/stopper package above for high viscosity straight wall stopper; add a **W** on the end for white thermal rubber stopper



## Luer Lock Syringe Barrels - Bulk

Syringe Barrels are manufactured with a heavy flange, custom designed for air dispensing. (500 piece minimum or bulk case quantity).

Size	Clear	Black UV	Yellow UV	Case
03cc	JG3A-BLL	JG3A-BLL-UVB	JG3A-BLL-UVA	4000
05cc	JG5A-BLL	JG5A-BLL-UVB	JG5A-BLL-UVA	1800
10cc	JG10A-BLL	JG10A-BLL-UVB	JG10A-BLL-UVA	1500
30cc	JG30A-BLL	JG30A-BLL-UVB	JG30A-BLL-UVA	600
50cc	JG50A-BLL	-	-	500



## Syringe Air Stoppers - Bulk

Syringe stoppers are specifically designed for air dispensing. Grey, drip-free standard stoppers are the most common, but also available in straight wall (blue) for heavy materials, and white thermal rubber. (500 piece minimum or case quantity).

Size	Grey No Drip	Blue Straight Wall	White Rubber	Case
03cc	JG3A-G	JG3A-GB	JG3A-GW	4000
05cc	JG5A-G	JG5A-GB	JG5A-GW	1800
10cc	JG10A-G	JG10A-GB	JG10A-GW	1500
30cc	JG30A-G	JG30A-GB	JG30A-GW	600
50cc	-	-	JG50A-GW	500



## Taper Tip Air Syringe Packages & Bulk

Taper tip syringes are a one piece molded barrel which have a tapered nozzle tip and use a black rubber stopper. The tapered tip can be cut back for more material flow. Pre-packed in convenient bags or sold in bulk (500 piece minimum or case quantity).

### Pre-packaged Bags

Size	Barrel & Stopper	Qty/bag
06cc	JG6AT-40	40
30cc	JG30AT-20	20
50cc	JG50AT-10	10

### Bulk Components

Barrel	Stopper	Case
JG6T-1	JG6T-2A	1500
JG30T-1	JG30T-2A	350
JG50T-1	JG50A-GW	800



# Syringes



**Manual** syringes consist of barrel, stopper, and plunger for manual deposit of materials. Options include fully assembled syringes, calibrated or plain syringe barrels, silicone free stoppers, luer lock, luer slip, taper tip, and come pre-packaged or in bulk.

Orders for in stock syringes received by 2pm PST ship the same day

## Assembled Calibrated Manual Syringes

Fully assembled and calibrated syringes are available in convenient packages or bulk. Offered in luer slip or the more popular luer lock style, both accepting all dispensing needles.

Prepackaged Bags				Bulk Components	
Size	Luer Slip (LS)	Luer Lock (LL)	Qty/bag	LS (1000)	LL (1000)
01cc	JG1CCLS-200	-	200	JG1CCLS	-
03cc	JG3CCLS-100	JG3CCLL-100	100	JG3CCLS	JG3CCLL
05cc	JG5CCLS-50	JG5CCLL-50	50	JG5CCLS	JG5CCLL
10cc	JG10CCLS-25	JG10CCLL-25	25	JG10CCLS	JG10CCLL
20cc	JG20CCLS-20	JG20CCLL-20	20	JG20CCLS	JG20CCLL
30cc	JG30CCLS-10	JG30CCLL-10	10	JG30CCLS	JG30CCLL
50cc	JG50CCLS-5	JG50CCLL-5	5	JG50CCLS	JG50CCLL



## Unassembled Non-Calibrated Manual Syringes

Luer lock syringes come unassembled without any calibrations and are sold in packages or bulk. Offered in luer lock style only.

Prepackaged Bags Includes Barrel, Stopper & Plunger Luer Lock			Bulk Components 1000 piece minimum		
Size	Luer Lock (LL)	Qty/bag	LL Barrel	Stopper	Plunger
03cc	JGM3LL-20	20	JG3-BLLC	JG3-G	JG3-P
05cc	JGM5LL-20	20	JG5-BLLC	JG5-G	JG5-P
10cc	JGM10LL-15	15	JG10-BLLC	JG10-G	JG10-P
20cc	JGM20LL-10	10	JG20-BLLC	JG20-G	JG20-P
30cc	JGM30LL-10	10	JG30-BLLC	JG30-G	JG30-P

Taper Tip			Bulk Components		
Size	Taper Tip (T)	Qty/bag	T Barrel	Stopper	Plunger
06cc	JG6MT-20	20	JG6T-1	JG5M-S	JG5M-P
10cc	JG10MT-15	15	JG10T-1	JG10M-S	JG10M-P
30cc	JG30MT-20	20	JG30T-1	JG30M-S	JG30M-P
50cc	JG50MT-5	5	JG50T-1	JG50M-S	JG50M-P



## Unassembled Silicone-Free Non-Calibrated

These luer lock syringe packages offer silicone free dispensing. The stoppers are not lubricated, yet slide effortlessly inside the barrel. Each bag includes barrels, rubber stoppers, and plungers.

Size	Clear Luer Lock	Black UV LL	Yellow UV LL	Qty/bag
03cc	JGM3LL-SF	JGM3LLUVB-SF	JGM3LLUVA-SF	20
05cc	JGM5LL-SF	JGM5LLUVB-SF	JGM5LLUVA-SF	20
10cc	JGM10LL-SF	JGM10LLUVB-SF	JGM10LLUVA-SF	15
30cc	JGM30LL-SF	JGM30LLUVB-SF	JGM30LLUVA-SF	10





## Syringe Specifications

Syringe Type	Air Syringe	Catalog Page	Length (A)	ID (B)	OD (C)	Flange (D)
Luer Lock	03cc	5	2.91	.372	0.454	1.235
Luer Lock	05cc	5	2.73	.497	0.583	1.252
Luer Lock	10cc	5	3.57	.636	0.737	1.328
Luer Lock	30cc	5	4.65	.886	1.002	1.742

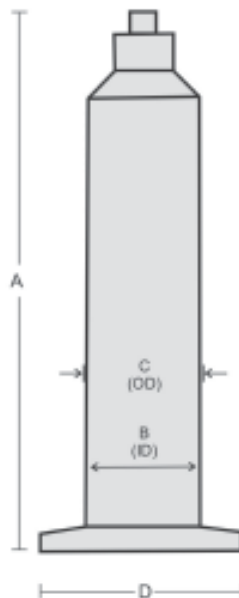
Same specifications for manual silicone free syringe barrels on page 6

Syringe Type	Air Syringe	Catalog Page	Length (A)	ID (B)	OD (C)	Flange (D)
Taper Tip	06cc	5	3.575	.507	0.583	1.212
Taper Tip	30cc	5	5.152	.895	1.020	1.742

Same specifications for manual taper tip syringe barrels on page 6

Syringe Type	Manual Syringes	Catalog Page	Length (A)	ID (B)	OD (C)	Flange (D)
Luer Lock	03cc	6	2.652	.372	0.468	0.848
Luer Lock	05cc	6	2.983	.478	0.553	1.058
Luer Lock	10cc	6	3.830	.579	0.661	1.157
Luer Lock	20cc	6	4.270	.776	0.874	1.530
Luer Lock	30cc	6	4.825	.891	1.005	1.661
Luer Slip	01cc	6	3.164	.183	0.269	0.758
Luer Slip	03cc	6	2.743	.372	0.468	0.848
Luer Slip	05cc	6	3.079	.478	0.553	1.058
Luer Slip	10cc	6	3.871	.579	0.661	1.157

Same specifications for manual non-calibrated syringes on page 6



## Syringe Adapters

are the connection between the syringe and dispensing equipment / shot meters. It allows pressurization of a syringe to dispense a metered amount of material ergonomically and with precision.

**Standard Adapters** are economical and specifically designed with an o-ring seal to fit all Jensen Global air syringes and some other manufacturers seal. Tubing OD: 1/4"

Part #	Description
JG3A-X 3 ft hose	JG3A-X6 6 ft hose 3cc adapter, hose and quick connect
JG5A-X 3 ft hose	JG5A-X6 6 ft hose 5cc adapter, hose and quick connect
JG10A-X 3 ft hose	JG10A-X6 6 ft hose 10cc adapter, hose and quick connect
JG30A-X 3 ft hose	JG30A-X6 6 ft hose 30cc adapter, hose and quick connect
JG50A-X 3 ft hose	JG50A-X6 6 ft hose 50cc adapter, hose and quick connect



**Universal Adapters** are designed to fit Jensen Global air syringes, as well as many other manufacturers' syringes, using a gasket seal. Tubing OD: 5/32"

Part #	Description
JG3CCUSA	3cc adapter, 6 ft hose and quick connect
JG5CCUSA	5cc adapter, 6 ft hose and quick connect
JG10CCUSA	10cc adapter, 6 ft hose and quick connect
JG30CCUSA	30cc adapter, 6 ft hose and quick connect



**Unique Delrin® 1cc Adapter** is a custom made adapter for pre-filled 1cc syringes of frozen epoxies and other materials filled in a 1cc air syringe with the following dimensions: ID (.22"); OD (.31"); Flange (.675"). Part # **JG1CCUSA**



## Syringe Tip Caps & End Caps

These caps are designed to keep material inside the syringe from curing. Luer lock tip caps connect to all syringe tip in place of a needle, and come in black or clear. Red end caps are size specific and fit Jensen Global air syringes.

Qty	Part #	Bulk (1K)	Description
50	JG-TCBX	JG-TCB	Black LL tip cap
50	JG-TCCX	JG-TCC	Clear LL tip cap
50	JG3A-BLLEC-50	JG3A-BLLEC	3cc air red end cap
40	JG5A-BLLEC-40	JG5A-BLLEC	5cc air red end cap
30	JG10A-BLLEC-30	JG10A-BLLEC	10cc air red end cap
20	JG30A-BLLEC-20	JG30A-BLLEC	30cc air red end cap



**Dispensing Controls** Pneumatic foot pedals and time-pressure controllers are used for syringes or valve/tank dispensing. These controls provide excellent ergonomics, efficiency and accuracy.

**JGDFV25 Pneumatic Foot Valve** is a purely pneumatic valve pedal that includes a built-in regulator and gauge to control the flow of material, and a simple step-to-activate design built inside a protective housing. The back of the unit has a 1/4 inch female thread with a standard male quick connect included. The foot pedal has a syringe adapter inlet port built-in to fit standard 1/4" OD tubing plus a reducer adapter to accept 5/32 OD tubing.

**JGDFV25V Pneumatic Vacuum Foot Valve** has all the features of the JGDFV25 plus a built-in vacuum venturi regulator which allows pull back of material into the needle, reducing dripping and stringing of the material.

### Specifications for Foot Valves

Part #	Weight	L x W x H	Timer	Material Vacuum	Air Input
JGDFV25	3.2 lb	6.75 x 3.8 x 3.75	n/a	n/a	1-100psi
JGDFV25V	3.2 lb	6.75 x 3.8 x 3.75	n/a	Yes	1-100psi

**ERGONOMIC**



**JGD300S Analog Syringe Shot Meter** is a pneumatic yet electronically controlled dispenser. The JGD300S is an economical dispenser that still gives the operator time control, to reproduce an amount of material. The timer ranges from 00.01 to 30 seconds, with a vacuum pull back feature included. You can bypass the timer by dispensing in manual mode. Optional finger switch available.

**JGD500S Digital Syringe Shot Meter** is a pneumatic yet electronically controlled dispenser. This time-pressure system has 10 program memory storage and a timer range from 0.008 to 99.99 seconds. In manual INT mode, the timer counts up, giving you the ability to determine what time you require with your application. Also included is sequential dispensing; ie: whatever programs are stored, the sequential dispensing cycles through each program. Vacuum pull back is a standard feature included. Optional finger switch available.

### JGD500SMT SMT Dispensing Re-work Station

incorporates every feature of the JGD500S, plus a vacuum pick up wand controlled by the JGD500SMT's built in flow regulator. The pick up tool connects to the front of the dispenser, and the strength of the pick up vacuum is controlled by a miniature flow regulator knob specifically placed on the back panel. Several sizes of suction cups are included.

**ERGONOMIC**



### Specifications for Shot Meters

Part #	Weight	L x H x D	Timer	Material Vacuum	Air Input
JGD300S	2.4 lb	4.5 x 6.25 x 7.75	.01-30 sec	Yes	1-100psi
JGD500S	2.1 lb	4.5 x 6.25 x 7.75	.008-99.99 sec	Yes	1-100psi
JGD500SMT	2.1 lb	4.5 x 6.25 x 7.75	.008-99.99 sec	Yes	1-100psi

[www.jensenglobal.com](http://www.jensenglobal.com)



## Dispensing Valves

### JGD700D Diaphragm Valve

The Diaphragm valve is designed to dispense low to medium viscosity materials and is excellent for cyanoacrylates and anaerobics, UV adhesives and MEK. The JGD200S can control the valve opening and the valve's internal spring provides a clean shut off of material. Length (3.1") Diameter (.936")



### JGD710N Needle Valve

The needle valve is excellent for a wide range of shot sizes and materials up to 100,000cps. It can be operated with the JGD200S using the internal spring to close it for low or medium viscosity materials. For higher viscosity materials, the JGD200V uses air to open and close the valve. Typical materials are adhesives, epoxies, silicones, inks and lubricants. Length (4.5") Diameter (1.0")



### JGD720HPS Spool Valve

The spool valve is designed for high pressure applications and high viscosity materials up to 300,000 cps. It is spring closed for low to medium viscosity materials, using the JGD200S controller. For heavier materials, use the JGD200V which allows for two way air control. The rear action closing of the valve creates a pull back action that prevents dripping. Suggested materials are RTV and silicones, greases, and solder mask. Length (4.7") Diameter (1.5")



### JGD740S Spray Valve

The spray valve is pneumatically actuated and uses air pressure to dispense low to medium viscosity materials, generally up to 1000 cps. Air pressure supplied to the air cap provides atomization and can be controlled by the JGD200SVC to initiate just before material is dispensed. Spray output can be varied by the fine adjustment knob controlling needle stroke distance. Suggested materials include lubricants, solvents, inks, and conformal coatings. Length (4.2") Diameter (1.0")



### JGD730AV Auger Pump

The Auger pump is a positive displacement valve excellent for solder paste, filled epoxies, underfill, and encapsulants. The valve has a feed screw, with various pitches available, which rotates and displaces the material. Viscosity range is from 50,000 to 500,000 cps. It is designed to be integrated with an xyz table. Length (3.99") Overall Diameter (2.14") Valve Body Diameter (.904")



### JGD200SVC Spray Valve Controller

This advanced controller is designed specifically for the JGD740S spray valve, and controls pre-atomization and spraying of materials such as conformal coatings and materials up to 1000 cps. Visit [www.jensenglobal.com](http://www.jensenglobal.com) for pictures and further specifications.

### JGD-MPW Pinch Wand

A manual dispensing wand has a flexible silicone pinch tube and is excellent for solder masks and other flowable materials which require 50 psi or less to dispense. The pinch tube is easily replaced, therefore making clean up easy and quick. The front of the wand has a luer lock female fitting, allowing use of any size dispensing needle. Length (6.73") Diameter (.63")



### JGD301 Vacuum Pick Up Wand

This advanced vacuum pick up wand has a built-in venturi right in the handle and connects directly to an air source or the JGD200SMT dispenser. It is whisper-quiet, comes with two different angled tips, and three suction cups. Length (5.25" w/o needle) Diameter (.48")



**Solder Mask Bulk Dispenser** system is designed to accept 1 gallon of solder mask (water soluble or peelable mask), and can be configured for 1, 2, 3 or 4 operators. A simple operating pinch tube wand allows for manual dispensing of solder mask through any desired needle. The 1 gallon pressure tank has a large opening to allow easy pouring of solder mask from a 1 gallon or larger container and easy access for cleaning. This system is purely pneumatic and easy to set up and operate.



Part #	Description
JGD1000-1	1 gallon tank, one operator system
JGD1000-2	1 gallon tank, two operator system, and material manifold
JGD1000-3	1 gallon tank, three operator system, and material manifold
JGD1000-4	1 gallon tank, four operator system, and material manifold

**Stainless Steel Pressure Tanks** allow for material storage and dispensing. Each tank comes with a regulator, gauge and pressure relief valve. They are available in 1, 2.5 & 5 gallon capacities.

Part #	Description
JGD1G	1 gallon stainless steel pressure tank, top ported, with regulator & gauge
JGD2.5G	2.5 gallon stainless steel pressure tank, top ported, with regulator & gauge
JGD2.5GBP	2.5 gallon stainless steel pressure tank, bottom ported, with regulator & gauge
JGD5G	5 gallon stainless steel pressure tank, top ported, with regulator & gauge
JGD5GBP	5 gallon stainless steel pressure tank, bottom ported, with regulator & gauge

## Specifications

Part #	Weight	Height	Diameter
JGD1G	9.84 lb	8.50"	9.00"
JGD2.5G	7.15 lb	14.65"	8.62"
JGD2.5GBP	7.15 lb	14.65"	8.62"
JGD5G	8.82 lb	24.80"	8.62"
JGD5GBP	8.82 lb	24.80"	8.62"



**Custom Pressure Tanks** are designed around industry standard bottles of cyanoacrylates and UV Adhesives. The JGD1LBM fits 500 gram bottles of cyanoacrylate and is made of a clear extruded acrylic shield for viewing of the material bottle. The JGD1LT is made for 1 liter UV adhesive bottles, and the JGD2500 batch mixer is used for pouring two or multi-component materials with a minimum of one hour working life.

Part #	Description
JGD1LBM	Miniature safety cyanoacrylate tank
JGD1LT	1 liter tank for UV adhesive bottles
JGD2500	2 gallon batch mixer tank with 1/2 horsepower motor, jiffy mixing blades, regulator & gauge

## Specifications

Part #	Weight	Height	ID
JGD1LBM	2.13 lb	8.75"	2.75"
JGD1LT	visit <a href="http://www.jensenglobal.com">www.jensenglobal.com</a> for		
JGD2500	specification on the JGD1LT & JGD2500		



**Two-Part Epoxy Syringe Guns** 50ml gun accepts a 1:1 ratio dual syringe cartridge (usually bought pre-filled from a material manufacturer). Dual syringe accepted is 25ml x 25ml. Available in a manually controlled gun or pneumatically actuated version.

Part #	Description
JGD-104	Manual 1:1 gun for 50ml dual epoxy syringe 25ml x 25ml
JGD-25-94	Pneumatic 1:1 gun for 50ml dual epoxy syringe 25ml x 25ml



Manual

Air



## Positive / Linear Displacement Syringe Dispenser

A break through in syringe dispensing where extreme accuracy is required. This air-free positive displacement system uses an auger with a custom designed stopper to displace material through the syringe. It operates using only electricity and has a built in motor in the handle to rotate the auger inside the syringe. The syringe level, viscosity changes and temperature fluctuations have little or no effect on the dispensed shot. Available in three different output variations. All systems come with 5 ft. gun cord and choice of high or standard torque.



## SDAV Small Deposit Displacement

Low Torque		High Torque	
<b>D130111</b>	3, 5, & 10cc	<b>D131411</b>	3, 5, & 10cc
<b>D130211</b>	30cc only	<b>D131611</b>	30cc only
<b>D130311</b>	3, 5, 10 & 30cc	<b>D131511</b>	3, 5, 10 & 30cc

Syringe	Min Vol (cc)	Max Vol (cc)	Min rate (cc/sec)	Max rate (cc/sec)
3cc	.00023	03.0	.006	.138
5cc	.00039	05.0	.010	.238
10cc	.00065	10.0	.016	.392
30cc	.00129	30.0	.032	.771

## MDAV Medium Deposit Displacement

Low Torque		High Torque	
<b>D850111</b>	3, 5, & 10cc	<b>D851411</b>	3, 5, & 10cc
<b>D850211</b>	30cc only	<b>D851611</b>	30cc only
<b>D850311</b>	3, 5, 10 & 30cc	<b>D851511</b>	3, 5, 10 & 30cc

Syringe	Min Vol (cc)	Max Vol (cc)	Min rate (cc/sec)	Max rate (cc/sec)
3cc	.00045	03.0	.011	0.267
5cc	.00079	05.0	.020	0.477
10cc	.00131	10.0	.033	0.783
30cc	.00257	30.0	.064	1.543

## LDAV Large Deposit Displacement

Low Torque		High Torque	
<b>D110111</b>	3, 5, & 10cc	<b>D111411</b>	3, 5, & 10cc
<b>D110211</b>	30cc only	<b>D111611</b>	30cc only
<b>D110311</b>	3, 5, 10 & 30cc	<b>D111511</b>	3, 5, 10 & 30cc

Syringe	Min Vol (cc)	Max Vol (cc)	Min rate (cc/sec)	Max rate (cc/sec)
3cc	.00090	03.0	.023	0.552
5cc	.00158	05.0	.040	0.954
10cc	.00261	10.0	.065	1.567
30cc	.00514	30.0	.129	3.086

## Air Free Syringe Packages

Size	Qty	Pre-packed	Description
03cc	50	JG3AF-50	03cc barrel and mechanical stopper
05cc	40	JG5AF-40	05cc barrel and mechanical stopper
10cc	30	JG10AF-30	10cc barrel and mechanical stopper
30cc	20	JG30AF-20	30cc barrel and mechanical stopper



Mechanical stopper pictured-used with luer lock air syringe barrels

## Accessories

Part #	Description
D600001	Stand for SDAV, MDAV or LDAV gun
RS232	Connector for storage and transfer of programs



**Dispensing / Squeeze Bottles** A variety of squeeze bottles are offered from 1/2 oz. through 8 oz. The bottles have a uniquely designed luer lock cap which accept standard luer lock dispensing needles. Boston Round bottles have a rounded neck. Cylinder bottles have a squared off neck. Bellows bottles are accordian shaped. LDPE = low density polyethylene; HDPE = high density polyethylene. Luer Lock (LL) caps are designed specifically for Jensen Global needles, and fit all other manufacturers' needles.

	<b>Bottle &amp; LL Cap (10/bag)</b>	<b>Neck Size</b>	<b>Description</b>
	JG0.5BC	20-410	1/2 oz HDPE Cylinder & LL black cap
	JG1.0AC	n/a	1oz bellows (accordian) w/ luer insert
	JG1.0BC	20-410	1oz LDPE Boston Round & LL black cap
	JG2.0BC	20-410	2oz LDPE Boston Round & LL black cap
	JG4.0BC	20-410	4oz LDPE Cylinder & LL black cap
	JG8.0BC	24-410	8oz HDPE Cylinder & LL black cap
	<b>Bulk Bottles</b>	<b>Neck</b>	<b>Description</b>
1	JG0.5B	20-410	1/2 oz HDPE Cylinder bottle
2	JG1.0A	n/a	1oz bellow (accordian) bottle
3	JG1.0B	20-410	1oz LDPE Boston Round bottle
4	JG2.0B	20-410	2oz LDPE Boston Round bottle
5	JG4.0B	20-410	4oz LDPE Cylinder bottle
6	JG8.0B	24-410	8oz HDPE Cylinder bottle
	<b>Bottle Caps</b>	<b>Neck</b>	<b>Description</b>
7	JGC-512	20-410	Black Luer Lock (LL) cap
8	JGC-512N	20-410	Natural/clear (LL) cap
9	JGC24-410	24-410	Black Luer Lock (LL) cap
10	JGC-512WL	20-410	White closed cap
11	JG1.0A-LL	n/a	Luer insert for accordian bottle



**JG805FS Finger Switch** is designed to be used in conjunction with any of Jensen Global's shot meter dispensing controllers. It can be attached to any size syringe or valve, as an alternative to the electronic foot pedal. The connection to the controller can be modified for use with several other controllers on the market.



**Needle & Syringe Kits** These convenient kits include a sample of a wide variety of needles, needles and syringes, or needles and syringes with standard syringe adapters.

<b>Part #</b>	<b>Description</b>
JG120NK	500+ piece variety kit includes standard, teflon & tapered needles, tip caps
JG120NS	Selection of most popular needles plus 3,5,10 & 30cc air and manual syringes
JG120A	Includes JG120NS kit plus 3,5,10 & 30cc standard adapters



**Cartridges & Nozzles** are an alternative product when syringes are too small of a capacity. Cartridges are available in low or high density and three different capacities (2.5oz., 6oz. and 12oz.). Cartridge accessories include plunger wipers, flange/end cap and threaded plugs. 1/4" threaded nozzles screw into the cartridge for bead and dot dispensing.

Part #	Description	Qty /Bag
CLD-25-10	Low density cartridge- 2.5 oz	10
CLD-60-10	Low density cartridge- 6.0 oz	10
CLD-120-10	Low density cartridge- 12.0 oz	10
CHD-25-10	High density cartridge- 2.5 oz	10
CHD-60-10	High density cartridge- 6.0 oz	10
CHD-120-10	High density cartridge- 12.0 oz	10
CLD-PB-10	Wiper plunger- black	10
CLD-P-10	Wiper plunger- natural	10
CHD-14THR-10	Red Threaded plug for cartridge	10
CHD-FC-10	Red Flange-wide end of cartridge	10
CHD-252-10	1/6 opening x 2.5 inches	10
CHD-254-10	1/8 opening x 2.5 inches	10
CHD-410-10	1/32 opening x 4 inches	10
CHD-420-10	1/16 opening x 4 inches	10



**Static Mixers** connect to the end of dual syringes or cartridges and mix two-component materials. Connection to the material is either bell or bayonet style, and dispensing end can be luer slip, luer lock, or stepped. Static mixers are sold per each.

Part #	Type-End	Style	Elements	Diameter
JG160-424	stepped	Bell	24	.189"
JG160-624	stepped	Bell	24	.248"
JG160-624LL	luer lock	Bell	24	.248"
JG160-818	stepped	Bell	18	.366"
JG160-818LL	luer lock	Bell	18	.366"
JG160-824	stepped	Bell	24	.366"
JG160-840LL	luer lock	Bell	24	.366"
JG160-830	stepped	Bell	30	.366"
JG161-230	stepped	Bell	30	.497"
JG161-236LL	luer lock	Bell	36	.497"
JG190-212	luer slip	Bayonet	12	.093"
JG190-324LL	luer lock	Bayonet	24	.125"
JG190-416	luer slip	Bayonet	16	.187"
JG190-416LL	luer lock	Bayonet	16	.187"
JG190-521	luer slip	Bayonet	21	.213"
JG190-612	luer slip	Bayonet	12	.250"
JG190-612LL	luer lock	Bayonet	12	.250"
JG190-620	luer slip	Bayonet	20	.250"
JG190-620-S	luer slip	Bayonet	20	.250"
JG190-620LL	luer lock	Bayonet	20	.250"
JG160-HB-01	turns luer slip or stepped nozzle into luer lock			



## Fittings & Tubing

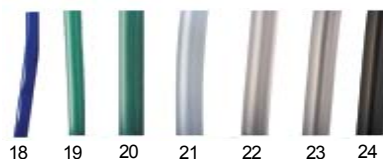
Luer Adapter	Description
1 JGF-V1T	Metal male luer lock adapter to 1/8" npt
2 JGF-V2T	Metal male luer lock adapter to 1/4" npt
3 JGF-V3T	Metal male luer lock adapter to 1/4-28
4 JGF-V4T	Metal male luer lock adapter to 5/16-28
5 JGF-V5T	Metal male luer lock adapter to 10-32
6 JGF-V6B	Metal male luer lock to small barb(1/8"ID or smaller)
7 JGF-V7B	Metal male luer lock to medium barb(1/8"ID; 1/4"OD tube)
8 JG26014L	Needle adapter 5/16-28 for JGD-MPW
9 F-SMTLL-1	Plastic male luer lock adapter w/ 1/4-28 thread
10 F-XMTLL-1	Plastic male luer lock adapter w/ 10-32 thread

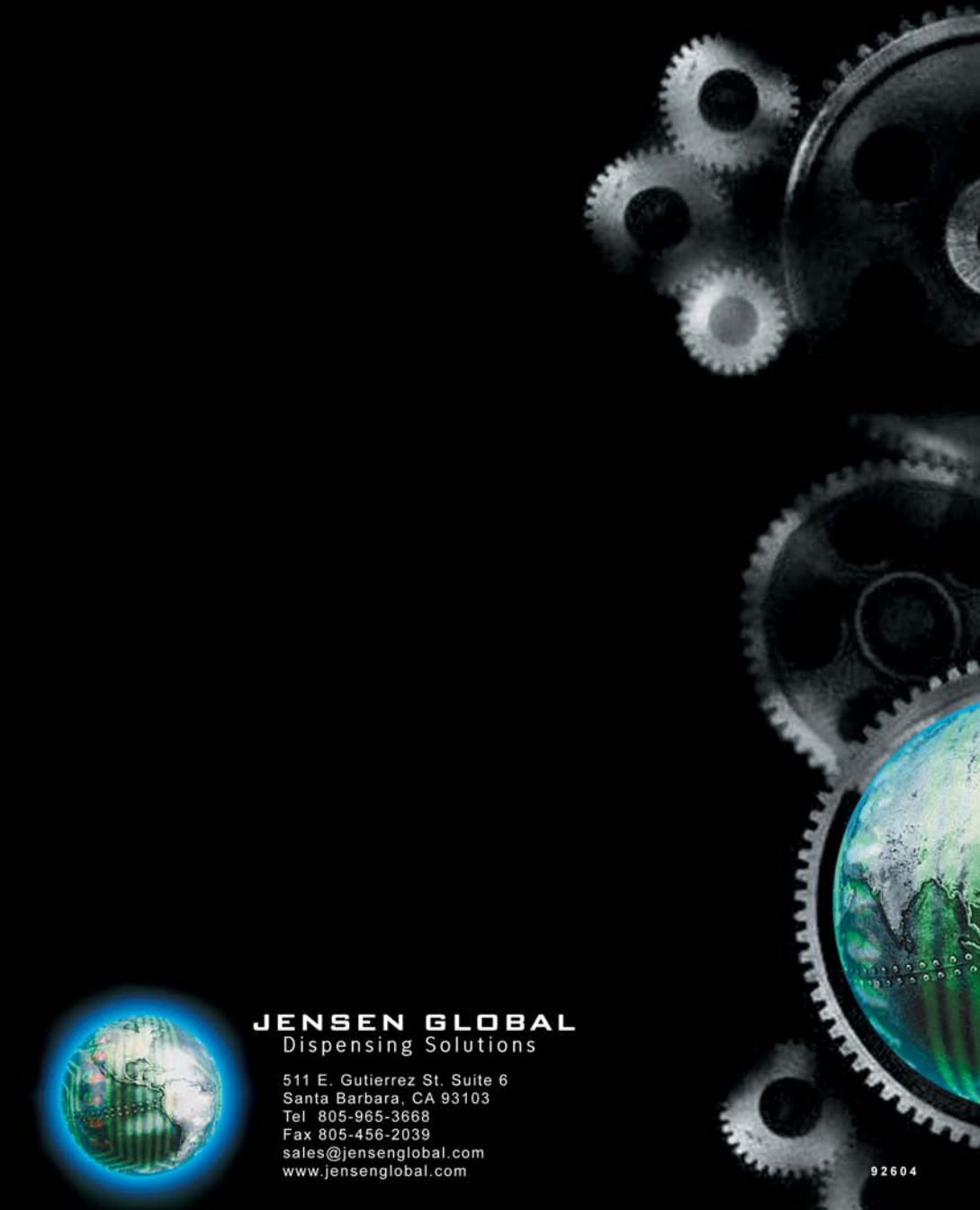


Misc Fittings	Description
11 F-FTLC-1	Female luer to luer (connects two syringes together)
12 JGF200-1	Polypropylene compression fitting 1/8 male npt to 1/4"od tube
13 JGF200-2	1/8 female npt x 1/4 metal coupler for JGD200S
14 JGF200-3	Greyfitting 1/4" od to 5/32" od tube quick connect
15 JGF200-4	Blue/black fitting 1/4 to 5/32 tube quick connect
16 JGF200-5	1/4 male npt x 1/4 metal coupler for other shot meters
17 JG-OCCLAMP	Two ear clamp (oc clamp)



Tubing	Description
18 PU-156-4LR	Polyurathane blue flexible air tube 5/32 od
19 PE-2.5AG	Polyethylene green tubing 5/32
20 PE-4AG	Polyethylene green tubing 1/4
21 JG1013	Blue silicone tubing for JGD-MPW wand
22 JGF-AL14	1/4 od air adapter tubing
23 JGFAL14L	Material line for JGD-MPW
24 PE-4AB	Black UV polyethylene tubing





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