# GLASS VIAILS







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#### **Molded Glass IV Bottles**

Soda-lime or borosilicate glass in transparent or brown color

Sulfuration treatment to enhance hydrolytic resistance

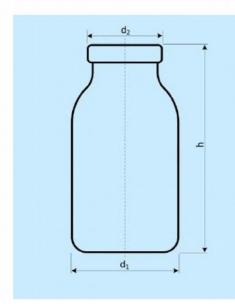
Full automatic inspection system and independent lab analysis

Suitable for autoclave sterilization

Shrink-wrapped and strong corrugated carton or pallet

Applicable to fill saline, glucose and sodium bicarbonate solution etc.





Capacity	Height (h)	Diameter $(d_1)$	Mouth (d₂)	USP Type
50ml	68.0mm	46.0mm	32mm	1,11
100ml	104.0mm	49.0mm	32mm	1,11
250ml	136.0mm	66.0mm	32mm	1,11
500ml	177.0mm	78.0mm	32mm	1,11



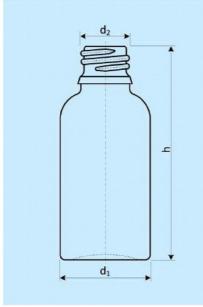
#### **Glass Dropper Bottles**

Standard DIN 18 screw thread neck finish

- Soda-lime glass in clear, amber, blue and green color
- Screen printing, hot stamping, frosting and polish available
- Broad assembled cap closures, droppers and insert for options
- Applicable for dispensing essential oil, herbal extracts, medicines and chemical reagents







Capacity	Height (h)	Diameter (d₁)	Mouth (d <sub>2</sub> )	USP Type
5ml	50.2mm	22.0mm	18mm	III
10ml	58.0mm	24.8mm	18mm	Ш
15ml	65.0mm	28.5mm	18mm	Ш
20ml	71.5mm	28.7mm	18mm	III
30ml	78.8mm	33.0mm	18mm	III
50ml	92.2mm	37.2mm	18mm	III
100ml	112.0mm	44.5mm	18mm	III

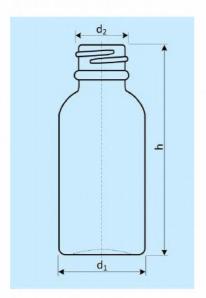


#### **Boston Round Glass Bottles**

GPI screw thread neck finish

- Soda-lime glass in clear, amber, blue and green color
- Rounded shoulders, rounded base and smooth sides
- Available with caps, droppers and atomizers for wide selection
- Widely used for pharmaceutical, chemical and laboratory applications





Capacity	Height (h)	Diameter (d₁)	Mouth (d <sub>2</sub> )	USP Type
1/2oz	68.3mm	25.0mm	18mm	Ш
1oz	78.6mm	32.8mm	20mm	Ш
2oz	93.7mm	38.6mm	20mm	III
4oz	112.7mm	48.8mm	22mm	III
8oz	138.1mm	60.3mm	28mm	III
16oz	168.7mm	74.6mm	28mm	III

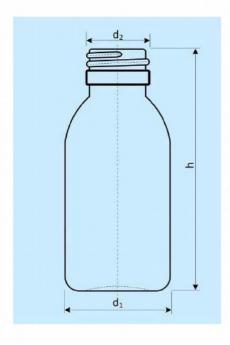


#### **Glass Syrup Bottles**

Pharmaceutical grade glass materials and imported machine equipment

- Automatic inspection system for whole process of manufacturing
- Custom is acceptable with low mold costs
- Not only applicable for syrup but also suitable for chemicals, herbal remedies, lotions and more
- Closures available with aluminum screw caps, plastic screw caps, child resistant caps, tamper evident caps, lotion
  pumps and atomizer sprays





Capacity	Height (h)	Diameter (d <sub>1</sub> )	Mouth (d₂)	USP Type
30ml	67.0mm	35.0mm	28mm	III
60ml	94.0mm	38.6mm	28mm	III
100ml	104.8mm	46.1mm	28mm	III
125ml	114.4mm	49.0mm	28mm	III
150ml	122.8mm	51.6mm	28mm	III
200ml	134.5mm	57.5mm	28mm	III
250ml	142.9mm	61.7mm	28mm	III
300ml	152.5mm	65.7mm	28mm	III
500ml	176.8mm	76.8mm	28mm	III

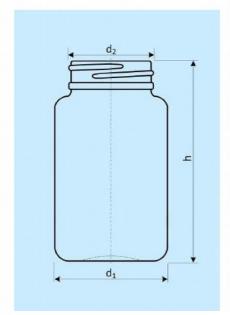


#### **Wide Mouth Glass Bottles**

GPI screw neck finish

- Easy to take out medicines for wide mouth
- Widely used for tablets, pills, capsules and health care products
- Screw thread plastic caps or metal-plastic combination caps available
- Amber blue green color provide ultraviolet wavelengths protection for light sensitive solids





Capacity	Height (h)	Diameter (d₁)	Mouth (d <sub>2</sub> )	USP Type
60ml	75.5mm	44.5mm	33mm	Ш
75ml	82.5mm	45.3mm	38mm	Ш
100ml	87.5mm	50.0mm	38mm	Ш
120ml	95.0mm	52.8mm	38mm	III
150ml	100.0mm	56.0mm	45mm	Ш
200ml	109.5mm	61.4mm	45mm	III
250ml	117.5mm	65.3mm	45mm	III



## **Glass Tubing**

Multidirectional inspected by laser system

- Both ends orderly cut and burned to keep smooth
- Shrink film wrapped and put into cartons or onto pallets
- Applicable for making ampoules, injection vials and oral liquid bottles



#### **Comparision of Glass Tubing**

ltem	B <sub>2</sub> O <sub>3</sub>	Coefficient of Linear Expansion	Hydrolytic Resistance
Soda Lime Glass Tubing	≤5%	(7.6-9.0) x10 <sup>-6</sup> K <sup>-1</sup> (20-300°C)	Second class
Low Borosilicate Glass Tubing	5%-8%	(6.2-7.5) x10 <sup>-6</sup> K <sup>-1</sup> (20-300°C)	First class
Neutral Glass Tubing	8%-12%	(3.5-6.1) x10 <sup>-6</sup> K <sup>-1</sup> (20-300°C)	First class
High Borosilicate Glass Tubing	≥12%	(3.2-3.4) x10 <sup>-6</sup> K <sup>-1</sup> (20-300°C)	First class

#### **Glass Tubing for Ampoules**

Outside Diameter Range (mm)   Wall Thickness Range (mm)		Length Range (mm)	Straightness
10-22.5	0.5-0.7	700-2000	≤2.5‰ (1000mm)

#### **Glass Tubing for Vials**

Outside Diameter Range (mm)	Wall Thickness Range (mm)	Length Range (mm)	Straightness
6-32	0.8-1.3	1000-2000	≤2.5‰ (1000mm)



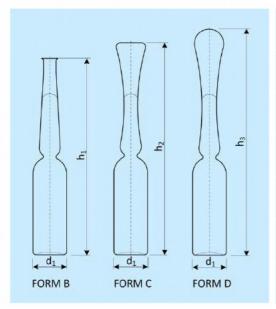


#### **Glass Ampoules**

Clear and amber color USP Type I

- Form B, C, D, E and special style custom available
- Printed ampoules with free colors are available
- Break systems: OPC(one-point cut) or color break ring





Capacity	Height (h <sub>1</sub> )	Height (h <sub>2</sub> )	Height (h₃)	Diameter (d <sub>1</sub> )
1ml	60.0mm	67.0mm	70.0mm	10.75mm
2ml	72.0mm	79.0mm	83.0mm	10.75mm
3ml	75.0mm	82.0mm	89.0mm	12.75mm
5ml	83.0mm	90.0mm	95.0mm	14.75mm
10ml	102.0mm	109.0mm	112.0mm	17.75mm
20ml	113.0mm	120.0mm	126.0mm	22.5mm

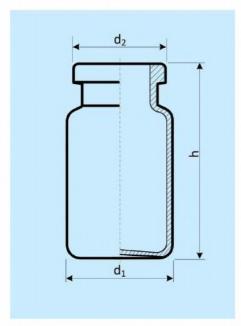


## **Tubular Injectable Glass Vials**

Made of high quality glass tubing with crimp neck finish

- Automatic inspection system to control appearance and tolerance
- Super clear and deep amber, not look like greenish and light amber





Capacity	Height (h)	Diameter (d <sub>1</sub> )	Mouth (d₂)	USP Type
2R	35.0mm	16.0mm	13mm	I
4R	45.0mm	16.0mm	13mm	I
6R	40.0mm	22.0mm	20mm	1
8R	45.0mm	22.0mm	20mm	1
10R	45.0mm	24.0mm	20mm	1
15R	60.0mm	24.0mm	20mm	1
20R	55.0mm	30.0mm	20mm	1
25R	65.0mm	30.0mm	20mm	1
30R	75.0mm	30.0mm	20mm	1



## **Autosampler Vials**

Accommodate the insert.

- Screen printing patch available
- Suitable for modern autosamplers
- Crimp top, screw top and snap top available
- Made of Type 1 borosilicate glass in clear or amber



Item No.	Description	Size (mm)	Pack
JT0000-V8	2ml clear/amber screw top vial, 8-425 thread	11.6x32	100/pk
JT0000-V8W	2ml clear/amber screw top vial, 8-425 thread, label and filling lines	11.6x32	100/pk
JT0001-V9	2ml clear/amber screw top vial, 9-425 thread	11.6x32	100/pk
JT0001-V9W	2ml clear/amber screw top vial, 9-425 thread, label and filling lines	11.6x32	100/pk
JT0002-V11	2ml clear/amber crimp top vial		100/pk
JT0002-V11W	2ml clear/amber crimp top vial, label and filling lines	11.6x32	100/pk
JT0004-V13	4ml clear/amber screw top vial, 13-425 thread	14.7x45	100/pk
JT0004-V13W	4ml clear/amber screw top vial, 13-425 thread, label and filling lines	14.7x45	100/pk



# **EPA(VOA)** Vials

GPI 24-400 thread finish

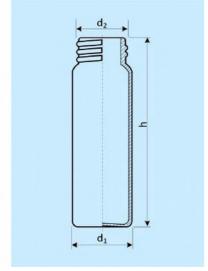
Cost-efficient for low borosilicate glass

Black or white pp cap with closed top or central hole top

Excellent sealing and chemical resistant for PTFE/Silicone septum

Applied to the collection and storage of water samples for the analysis of pollutants





Capacity	Height (h)	Diameter (d <sub>1</sub> )	Diameter (d <sub>2</sub> )	Neck Type
20ml	57.0mm	27.5mm	22.5mm	24-400
30ml	70.0mm	27.5mm	22.5mm	24-400
40ml	95.0mm	27.5mm	22.5mm	24-400
60ml	140.0mm	27.5mm	22.5mm	24-400



#### **Glass Test Tubes**

Clear and amber test tubes for use in laboratory made of borosilicate glass

- Rounded U-shaped bottom and flat bottom without rim or screw thread finish
- Small quantity of custom-order is acceptable



Overflow Capacity	Dimension (O.D. x L)	Style
0.75ml	6 x 50mm	
2ml	8 x 75mm	
6ml	12 x 75mm	Rimless
10ml	12 x 100mm	Di
12ml	13 x 100mm	Rim
16ml	15 x 125mm	Screw Thread
15ml	16 x 100mm	Round Bottom
24ml	16 x 150mm	Round Bottom
28ml	18 x 150mm	Flat Bottom
55ml	25 x 150mm	
75ml	25 x 200mm	

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#### **Glass Pipettes**

Black printing color and brown printing color are available

- Various styles including straight tip, bent tip, flat tip and blunt tip so on
- Available many kind of rubber teats and caps with different colors for individual choice
- Widely used for glass dropper bottles, boston round glass bottles and other screw top vials



Diameter (mm)	Length (mm)	Style
5	48	
6	45	Straight tip
6	60	
6	90	Bent tip
7	66	Blunt tip
7	89	Flat tip
7	109	



# **Glass Cartridges**

Widely used in insulin injection and dental injection

- Control the dose precisely through pen system or pump system
- 100% visual imaging detection system for inspecting apparent defect



Body Diameter	Top Diameter	Lip Thickness	Height
8.65mm	7.15mm	2.9mm	
10.85mm	7.15mm	2.9mm	
10.95mm	7.15mm	2.9mm	
11.60mm	7.15mm	2.9mm	Customized
14.00mm	9.5mm	2.9mm	
14.45mm	9.5mm	2.9mm	
18.25mm	9.5mm	2.9mm	



# **Glass Prefillable Syringes**

Accurate dosages and little drug residue

- Minimize cross infection and prevent misuse of drug
- Favorable air tightness and excellent drug compatibility



Specification	Outer Diameter	Glass Barrel Length	Remarks
1,,,1,1,,,,,	0.15	64.0mm	27G1/2 Needle with Shield
1ml long	8.15mm	66.5mm	Flexible/Rigid Luer Lock Cap
	10.05	46.7mm	25G5/8 Needle with Shield
1ml	10.85mm	48.3mm	Flexible/Rigid Luer Lock Cap
1.5ml	10.85mm	54.0mm	27G1/2 Needle with Shield
2.25	10.05	65.5mm	27G1/2 Needle with Shield
2.25ml	10.85mm	67.0mm	Flexible/Rigid Luer Lock Cap
2	10.05	83.2mm	Luer Cone Tip Cap
3ml	10.85mm	85.7mm	Flexible/Rigid Luer Lock Cap
	4.4.45	78.7mm	Luer Cone Tip Cap
5ml	14.45mm	80.0mm	Flexible/Rigid Luer Lock Can



#### **Teflon Coated Rubber Stoppers**

Good adhesion, ease of cleaning, non-hardening and non-stickness

- Obtained satisfactory results and verification for compatibility tests with medicines
- Suitable for normal operating use in high-speed sub-assembly lines
- Effectively reduce instances of leakage during needle insertion, extraction and 'inversion-hanging'
- The coating will prevent potential contamination between the rubber contact surface and the medicine, thereby expanding the applications for the stoppers



Specification	Crown Diameter	Crown Thickness	Plug Diameter	Overall Height
20-E	19.5mm	3.0mm	13.2mm	6.5mm
20-B <sub>1</sub>	18.8mm	3.3mm	13.2mm	7.7mm
20-FA	18.8mm	3.3mm	12.85mm	7.2mm
20-FB	19.5mm	3.0mm	12.85mm	7.0mm
20-D1-S	18.8mm	3.3mm	13.2mm	13.2mm
20-D2-S	18.8mm	3.3mm	12.8mm	14.2mm



# **Lyophilization Rubber Stoppers**

Various formulas for broad selection purpose

- Ideal for vaccine, biological freeze dried preparation
- Quality equal to or higher than the international standard



Specification	Crown Diameter	Crown Thickness	Plug Diameter	Overall Height
13-D <sub>1</sub>	12.5mm	2.0mm	7.5mm	12.0mm
13-D <sub>2</sub>	12.5mm	2.0mm	7.5mm	12.0mm
20-D <sub>1</sub>	18.8mm	3.3mm	13.2mm	13.8mm
20-D <sub>2</sub>	18.8mm	3.3mm	13.2mm	13.8mm
20-D <sub>3</sub>	18.8mm	3.3mm	13.2mm	13.8mm
20-D <sub>4</sub>	18.8mm	3.3mm	13.2mm	14.0mm



# **Injection Rubber Stoppers**

Exxon or Lanxess material and manufacturing under GMP

Good sealing and appropriate compatibility with drugs

Cost efficient and fast delivery time



Specification	Crown Diameter	Crown Thickness	Plug Diameter	Overall Height
13-A	12.5mm	2.0mm	7.5mm	7.0mm
20-A	18.8mm	3.3mm	13.2mm	8.8mm
20-В	19.5mm	3.0mm	13.0mm	8.7mm



## **Infusion Rubber Stoppers**

High quality rubber materials from EXXON or LANXESS

Manufactured in clean workshop with 10000 class conforming to GMP standard

Optimized formulas for the better compatibility between stopper and IV solutions



Specification	Crown Diameter	Crown Thickness	Plug Diameter	Overall Height
26-B	25.5mm	3.8mm	15.8mm	10.9mm
28-B <sub>2</sub>	26.6mm	4.0mm	20.6mm	10.8mm
28-B <sub>3</sub>	26.6mm	3.8mm	18.0mm	11.8mm
30-A	29.4mm	4.8mm	20.5mm	12.0mm
32-A	30.8mm	4.0mm	23.6mm	12.2mm
32-A <sub>1</sub>	30.8mm	5.0mm	24.2mm	16.0mm
34-A	33.5mm	5.0mm	25.5mm	14.5mm

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# **Blood Collection Rubber Stoppers**

High cleanliness and low puncture force

Excellent puncture retention

No leaks and good self-sealing



Specification	Crown Diameter	Crown Thickness	Plug Diameter	Overall Height
15-A	14.0mm	5.0mm	11.3mm	10.7mm
16-A	14.5mm	5.5mm	11.7mm	12.2mm
17-A	16.0mm	5.0mm	11.5mm	13.0mm



## **Silicone Rubber Stoppers**

White, transparent color and semi-transparent color are available

Ideal for laboratory, industrial and craft applications especially for contact lenses

Custom size, color, logo acceptable and suitable for high temperature sterilization



Specification	Crown Diameter	Crown Thickness	Plug Diameter	Overall Height
20-S <sub>1</sub>	19.5mm	3.0mm	13.2mm	7.0mm
20-AS	18.8mm	3.3mm	13.2mm	8.8mm
20-BS	19.5mm	3.0mm	13.0mm	8.7mm



#### **Rubber Teats**

White, transparent color and semi-transparent color are available

- Ideal for laboratory, industrial and craft applications especially for contact lenses
- Custom size, color, logo acceptable and suitable for high temperature sterilization



Specification	Base Diameter	Overall Height	Surface Handling	Bulb Style
11-a	11mm	30mm	Polishing/Sandblasting	Straight
<b>12-</b> a	12mm	13mm	Polishing/Sandblasting	Straight
<b>16-</b> a	16mm	22mm	Polishing/Sandblasting	Flat Top
17-a	17mm	25mm	Polishing/Sandblasting	Straight
18-a	18mm	30mm	Polishing/Sandblasting	Ball Shape
21-a	21mm	24mm	Polishing/Sandblasting	Straight
22-a	22mm	23.5mm	Polishing/Sandblasting	Straight
25-a	25.5mm	28mm	Polishing/Sandblasting	Straight



#### **Aluminum Seals**

Cost-efficient as alternative of flip off caps

- Washed by purified water, no aluminum scraps and oil contamination free
- Suitable for high temperature sterilization, no deformation and color unchanged
- Production completed in 100,000 class purification workshop according to GMP standard



Specification	Inner Diameter	Inner Height	Style
7mm	7.5mm	5.0mm	Central Hole/Headspace
11mm	11.0mm	5.5mm	Central Hole/Headspace
13mm	13.3mm	6.3mm	Central Hole/Centre Tear Out/Tear Off
20mm	20.3mm	7.5mm	Central Hole/Centre Tear Out/Tear Off
28mm	28.6mm	10.0mm	Center Tear Out
32mm	32.4mm	12.0mm	Center Tear Out
34mm	34.2mm	10.5mm	Center Tear Out



## **Aluminum Screw Caps**

Surface handling-coating, printing, oxidation, engraving

- Perfect for packaging food, cosmetics, health care and chemicals
- No black spots no scratches on surface and regular knots and screw thread to rotate caps easily



Specification	Diameter	Height	Liner
18mm	18.0mm	12.0mm	PE/Butyl Rubber/Silicone Rubber
18mm	18.0mm	14.0mm	PE/Butyl Rubber/Silicone Rubber
20mm	20.0mm	12.0mm	PE/Butyl Rubber/Silicone Rubber
24mm	24.0mm	13.0mm	PE/Butyl Rubber/Silicone Rubber
24mm	24.0mm	15.0mm	PE/Butyl Rubber/Silicone Rubber
28mm	28.0mm	13.0mm	PE/Butyl Rubber/Silicone Rubber
28mm	28.0mm	15.0mm	PE/Butyl Rubber/Silicone Rubber
31mm	31.0mm	14.0mm	PE/Butyl Rubber/Silicone Rubber



## **Aluminum Ropp Caps**

Tamper proof-unscrew cap, drop ring left on glass bottles

- Ideal for packaging wine, beverage, oral liquid, syrup and health care products
- Good tightness between caps and bottles and liner has great compatibility with liquid materials



Specification	Inner Diameter	Overall Height	Liner
18mm	18.25mm	13.0mm	PE/Butyl Rubber/Silicone Rubber
22mm	22.0mm	15.1mm	PE/Butyl Rubber/Silicone Rubber
24mm	23.8mm	15.6mm	PE/Butyl Rubber/Silicone Rubber
28mm	27.8mm	18.1mm	PE/Butyl Rubber/Silicone Rubber
28mm	27.8mm	18.2mm	PE/Butyl Rubber/Silicone Rubber
28mm	27.8mm	18.4mm	PE/Butyl Rubber/Silicone Rubber
28mm	28.2mm	20.6mm	PE/Butyl Rubber/Silicone Rubber



# Flip off Caps

Aluminum alloy 8011 and 100% new pp material

- Assembling in 10000 class workshop and washed by purified water
- No burrs after opening for the style of central ring crimped and cutting ring
- Aluminum part and pp part can be total separately after opening for better assortments purpose



Specification	Inner Diameter	Inner Height	Туре
13mm	13.3mm	6.3mm	Flip Off/Flange Top/Flat Top
20mm	20.3mm	7.5mm	Flip Off/Flange Top/Flat Top
28mm	28.6mm	9.6mm	Flip Off/Flange Top/Flat Top
32mm	32.5mm	12.0mm	Flip Off/Flange Top/Flat Top
34mm	34.6mm	14.1mm	Flip Off/Flange Top/Flat Top

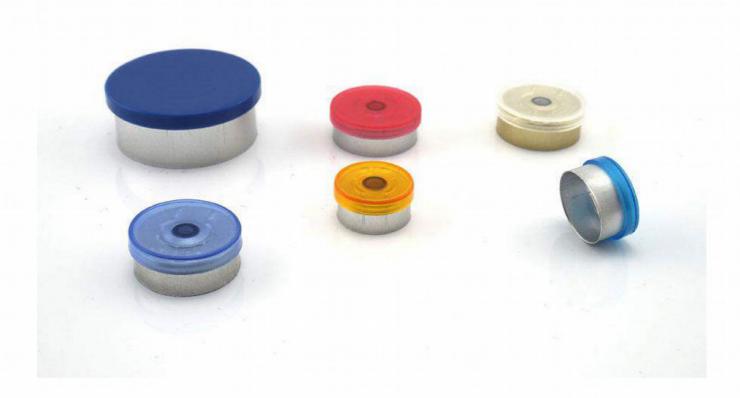
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# **Tear off Caps**

Single or double arrows guide tear off

- Cap completely removed when push and tear up
- PP part can be rotatable or positioned with transparent or non-transparent designs



Specification	Inner Diameter	Inner Height	Туре
13mm	13.3mm	6.3mm	Tear up/Tear off
20mm	20.3mm	7.5mm	Tear up/Tear off
28mm	28.6mm	9.6mm	Tear up/Tear off
32mm	32.5mm	12.0mm	Tear up/Tear off



#### **Euro Dropper Caps**

Dispensing precisely measured drops

- Economical, Safe, Convenient and Reliable dispensing system
- Regular, Tamper-Evident, Push-Turn and Push-Turn/Tamper-Evident available
- Pharmaceutical grade materials and production in clean workshop



Euro Dropper Cap	Dropper Insert	Cap Size	Orifice Size	Cap Color
Regular	Vertical/Horizontal	DIN 18	0.6mm, 1.0mm, 1.5mm	Black, White
Tamper-evident	Vertical/Horizontal	DIN 18	0.6mm, 1.0mm, 1.5mm	Black, White
Push-turn	Vertical/Horizontal	DIN 18	0.6mm, 1.0mm, 1.5mm	Black, White
Push-turn/Tamper-evident	Vertical/Horizontal	DIN 18	0.6mm, 1.0mm, 1.5mm	Black, White

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# **Phenolic Caps**

- Excellent chemical and solvent resistance
- Good sealing property and no any leakage



ltem	Specification	Liner	Color
Phenolic Cap/Bakelite Cap	18-400	LDPE Cone	Black, White
Phenolic Cap/Bakelite Cap	20-400	LDPE Cone	Black, White
Phenolic Cap/Bakelite Cap	22-400	LDPE Cone	Black, White
Phenolic Cap/Bakelite Cap	24-400	LDPE Cone	Black, White
Phenolic Cap/Bakelite Cap	28-400	LDPE Cone	Black, White



## **Fine Mist Sprayers**

Dosages: 0.05ml, 0.12ml, 0.15ml, 0.2ml, 0.4ml

Hoods: PP, PS or K-resin

Length of dip tube: as per your requests

• Color of actuators, closures and dust caps: upon your requests



Specification	Dosage	Туре	Material
13-415	0.12ml	Screw-on/Crimp-on	Plastic/Metal
15-410/415	0.12ml	Screw-on/Crimp-on	Plastic/Metal
18-410/415	0.15ml	Screw-on/Crimp-on	Plastic/Metal
20-400/410/415	0.4ml	Screw-on/Crimp-on	Plastic/Metal
22-400/415	0.12ml/0.15ml	Screw-on	Plastic
24-400/410/415	0.2ml/0.4ml	Screw-on	Plastic
28-400/410/415	0.15ml/0.2ml/0.4ml	Screw-on	Plastic



## **Oral Sprayers**

Dosages: 0.1ml, 0.12ml, 0.15ml

Tube actuators: various length with a plastic protective cover

• Closures: 18/410, 18/415, 20/410, 20/415, 22/415, 24/410, 28/400, 28/410



Specification	Dosage	Туре	Material
18-410/415	0.12ml, 0.15ml	Screw-on/Crimp-on	Plastic/Metal
20-410/415	0.12ml, 0.15ml	Screw-on/Crimp-on	Plastic/Metal
22-415	0.12ml, 0.15ml	Screw-on	Plastic
24-410/415	0.12ml, 0.15ml	Screw-on	Plastic
28-400/410	0.12ml, 0.15ml	Screw-on	Plastic



## **Nasal Sprayers**

Ribbed closure in child resistant "CRC"

- Plastic cap with screw-on and metal closure with crimp-on
- Suitable for HDPE bottles and pharmaceutical glass vials



Specification	Dosage	Туре	Material
15-410/415	0.1ml, 0.12ml	Screw-on	Plastic
18-410/415	0.1ml, 0.12ml	Screw-on	Plastic
20-410	0.1ml, 0.12ml	Screw-on	Plastic
24-410	0.1ml, 0.12ml	Screw-on	Plastic
28-400	0.1ml, 0.12ml	Screw-on	Plastic