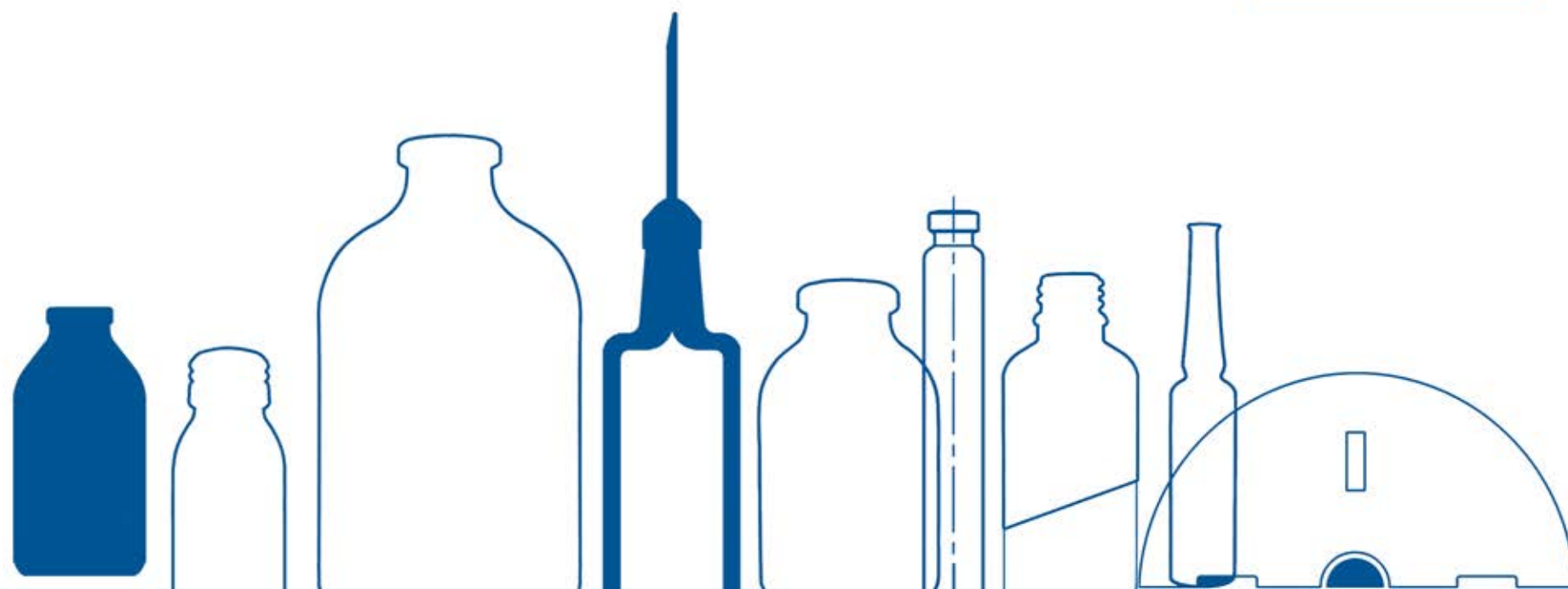




山东省药用玻璃股份有限公司

Shandong Pharmaceutical Glass Co.,Ltd

Products Classifications

I. Clear and amber moulded glass vials for injection type I,II,III, sizes from 5ml to 100ml: Glass containers for pharma use are glass articles intended to come into direct contact with pharmaceutical preparations. The hydrolytic stability of glass containers for pharma use is expressed by the resistance to the release of soluble mineral substances into water under the prescribed conditions of contact between the inner surface of the container or glass grains and water. According to the relevant chapters specified in CP, USP, EP, the hydrolytic resistance is evaluated by titrating released alkali, based on the hydrolytic resistance, glass containers are classified in three types: Type I glass containers are suitable for most products for parenteral and non-parenteral uses. Type II glass containers are suitable for most acidic and neutral aqueous products for parenteral and non-parenteral uses. Type II glass containers may be used for alkaline parenteral products where stability data demonstrate their suitability. Type III glass containers usually are not used for parenteral products or for powders for parenteral use, except where suitable stability test data indicate that Type III glass is satisfactory.

II. Infusion Bottles are made of soda-lime glass or borosilicate glass, we produce and supply type I and type II infusion in clear and amber colors, and also produce type I alkali resistance glass bottles which are suitable for high alkaline injection such as sodium bicarbonate.

III. Amber glass bottles, type III: the typical feature is that ultraviolet transmission should not exceed 10% at any wavelength in the range of 290nm–450nm, the products are widely used, mainly including medicinal oral liquid, powder antibiotics, health care products, functional beverages, cosmetics, nutritional supplements, tablet drugs, veterinary products and so on.

IV. Cosmetic glass container and food grade glass: we produce clear, amber, cobalt blue, green, black colors. It has a wide range of uses, including nail polish, perfume, cream, essential oil, wind expelling oil, cannabis, food, beverage and so on. Glass is made from all-natural sustainable raw materials, it is the preferred packaging for consumers' concerned about their health and the environment, consumers prefer glass packaging for preserving a product's taste or flavor and maintaining the integrity or healthiness of food and beverage.

V. Glass tube, ampoules and vials made of glass tubes: according to the needs of customers, we produce and supply flexible price of 5.0–7.0 COE of borosilicate glass with different rate of boron content. Ampoules made of 5.0–7.0COE tubes all meet the requirements of type I glass, Tubular vial made of 5.0–5.6 COE tubes all meet type I requests, for vials made 7.0 COE only with sulfur treatment can meet type I requirements.

VI. Prefilled syringes and glass cartridges: we mainly produce prefilled syringe for use of vaccines, heparin, hyaluronic acid and biological preparation. Glass cartridges are used for anesthetics and insulin products packaging.

VII. Rubber and plastic closures: Rubber closures for containers for aqueous parenteral preparations, for powders and for freeze-dried powders are made of materials obtained by vulcanization (cross-linking) of macromolecular organic substances (elastomer), with appropriate additives. We produce chlorobutyl and bromobutyl normative rubber stopper for powder and lyophilization, rubber stopper and disc for infusion, Teflon coated rubber stopper, rubber plunger for PFS and cartridge.

Shandong Pharmaceutical Glass Co., Ltd.

Specialized for Pharmaceutical Glass Packaging with Its Accessories

We are a Chinese leading and internationally renowned pharmaceutical glass manufacturer with more than 50 years of production history, strong economic strength, rich production experience, advanced manufacturing equipments, sophisticated manufacturing technology, and constantly improving management system. To provide high-quality products and perfect services for domestic and foreign medicine, personal care and food manufacturers, the products mainly cover glass packaging containers for pharmaceuticals, food, cosmetics, nutritional supplements and their auxiliary accessories, including different types of moulded and tubular glass vials for injection, amber glass bottles, cosmetic bottles, cobalt blue and green bottles, pre-filled syringe, ampoules, plastic bottles, rubber stoppers, flip-off caps, plastic caps, and dropper caps products. There are more than 2000 product specifications, with an annual sales of more than 24 billion pcs products, sold to more than 90 countries and regions, and providing products and services to more than 3000 users around the world.

The company took the lead in passing ISO9001 international quality system certification in the same industry in 1998, passed ISO15378 (GMP) management system certification in 2015, passed ISO22000 food safety system certification in 2016 and obtained CNAs certification in the same year. After 50 years of struggle, Shandong Pharmaceutical glass has won many industry honors, and has been rated as the leader in light industry, China Packaging scientific and Technological Achievement Award, China's key high-tech enterprise, torch plan project enterprise, national enterprise technology center, China's top ten enterprises in light industry daily glass industry (glass container).

山东药玻是国内领先、国际知名的药用玻璃生产商，成立于1970年，2002年在上海证券交易所上市，有着50多年的生产历史，雄厚的经济实力，丰富的生产经验，先进的生产设备，精良的制造技术，不断完善的管理体系，专为国内外食品医药、个人护理类生产企业提供优质的产品和完善的服务，产品主要覆盖医药、食品、化妆品、营养补充剂类用的玻璃包装容器及其辅助性配件，包括模制和管制注射剂瓶、棕色瓶、日化瓶、蓝绿瓶、黑料瓶、预灌封、安瓶、塑料瓶、胶塞、铝塑盖、塑料盖塞以及胶头滴管类产品等，产品规格2000多种，年销售240多亿只瓶塞盖类产品，销往90多个国家和地区，向全球3000多家用户提供产品和服务。

公司于1998年在同行业中率先通过了ISO9001国际质量体系认证，2015年公司顺利通过了ISO15378（GMP）管理体系认证，2016年通过了ISO22000食品安全体系认证，同年取得CNAS认证。五十年奋斗征程，山东药玻赢得了众多行业荣誉，先后被评为轻工行业排头兵企业，中国包装科技成果奖，中国重点高新技术企业，火炬计划项目企业，国家企业技术中心，中国轻工业日用玻璃行业（玻璃包装容器）十强企业等。



Shandong Pharmglass

*aims to be the leading supplier,
endlessly pursuing enhanced
performance and perfect service*



View of Pharmglass Plants



A 洁净化的管制瓶成型工序
Clean Forming Process of Tubular Vials

B 艾姆哈特8段3滴料行列制瓶机
Emhert 8 Section TG I.S. Machine

C 丁基胶塞硫化工序
Vulcanization Process for Butyl Rubber Stopper



Rubber & Plastic Packaging Plants



A



B



C

Legend

圖標



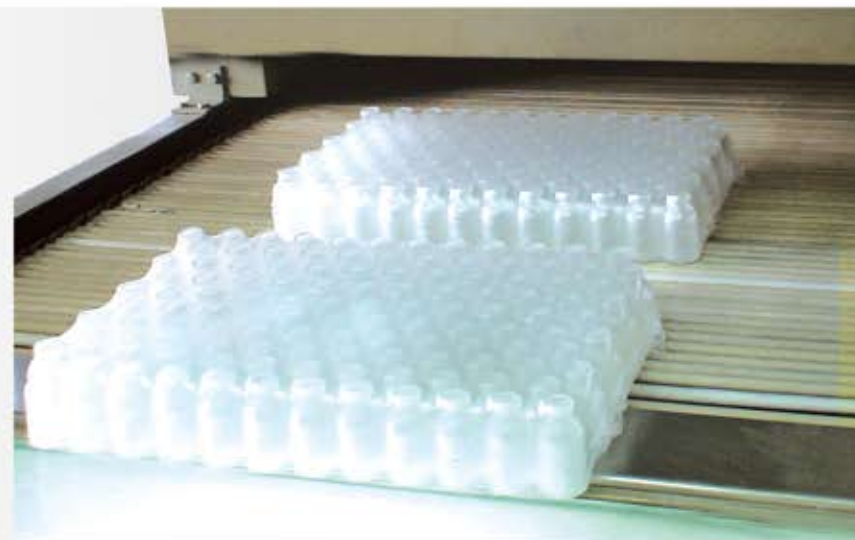
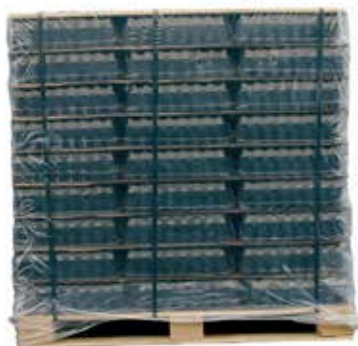
Packaging

包裝方式



View of palletization

The packaging of containers for pharmaceutical use must ensure both glass containers' protection and smooth operation on the end-user's filling lines



Polyethylene shrink wrapped, this packaging can be used for all containers, small and large. Mainly use for antibiotics vials and infusion bottles

SUMMARY

產品目錄

Moulded vial for antibiotics	1	模制注射劑瓶系列
Baby feeding, Clear, food glass bottle	4	奶瓶、透明藥劑瓶、食品瓶
Cosmetic glass bottle	9	日化瓶系列
Amber glass bottle	16	棕色藥劑瓶
Black glass bottle	26	黑瓶
Cobalt blue & green glass bottle	27	鈷藍色、綠色玻璃瓶
Amber infusion glass bottle	28	棕色輸液瓶

Tube vial for antibiotic	29	管制注射劑瓶
Ampoule, glass tubing	30	安瓶玻管
Prefillable Syringe	32	預灌封
Closure for vial	34	丁基橡膠制品
Flip off caps	38	鋁塑蓋、塑料蓋
Plastic bottle	44	塑料瓶
Certificates	45	證書

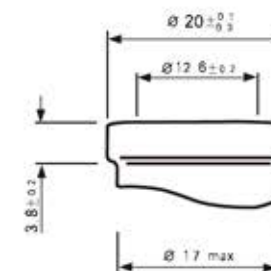


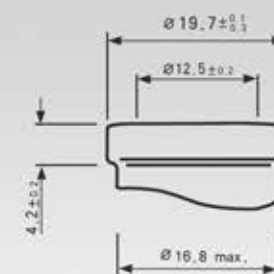


Ref.	ml	ml	ml	g		mm	mm	I	II	III
110071	7ml	7	9	13.0	ISO/CFDA	40.8	22.1	✓	✓	✓
110081	8ml	8	10	16.0	ISO/CFDA	46.8	23.0	✓	✓	✓
110101	10ml	10	15	21.0	ISO/CFDA	53.5	25.4	✓	✓	✓
110151	15ml	15	17	24.0	ISO/CFDA	58.8	26.5	✓	✓	✓
110201	20ml	20	26	29.0	ISO/CFDA	58.0	32.0	✓	✓	✓
110301	30ml	30	38	35.0	ISO/CFDA	62.8	36.0	✓	✓	✓
110501	50ml	50	60	50.0	ISO/CFDA	73.0	42.5	✓	✓	✓
111001	100ml	100	119	89.0	ISO/CFDA	94.5	51.6	✓	✓	✓

Series complies with the norms ISO8362-4 and CFDA YBB00312002-2015.

本系列符合ISO8362-4 和中國國家食品藥品監督管理局YBB00312002-2015標準。





GB/B 19.7mm



Ref.	ml	ml	ml	g	GB/B	mm	mm	II	III
120052	5ml	5	7.3	12.9	GB/B	38.7	22.0	✓	✓
120053	7ml	7	9.0	13.5	GB/B	38.7	24.5	✓	✓
120122	12ml	12	16.0	21.0	GB/B	56.8	27.0	✓	✓
120075	7.5ml	7.5	8.5	14	20mm	36.2	24.6	✓	✓
120103	10ml	10	13.5	20	20mm	51.1	24.6	✓	✓
120303	30ml	30	37	38	20mm	61.5	37.8	✓	✓
120323	32ml	32	34.2	32.0	GB/B	66.0	33.0	✓	✓

Series complies with the norms GB 2640-90。本系列符合中國國家標準GB2640-90。



Ref.	ml	ml	ml	g	GB/B	mm	mm	II	III
120108	10ml	10	12	15.0	19.5mm	46.5	22.0	✓	✓
120158	15ml	15	17	21.0	19.5mm	45.5	29.5	✓	✓
120208	20ml	20	23	28.5	19.5mm	60.0	31.0	✓	✓
120109	10ml	10	15	19.4	ISO 20	55	23.8	✓	✓
120155	15ml	15	17	21.0	ISO 20	57.0	26.0	✓	✓
120185	18ml	18	21	26.9	ISO 20	57.0	30.0	✓	✓

Series according to the customers' special requirements.



Ref.	ml	ml	ml	g		mm	mm
320151	1/2oz	14.2	16.4	25.5	18mm-400	68.26	25
320301	1oz	31.3	36.2	44	20mm-400	78.58	32.8
320601	2oz	60.8	63.8	58	20mm-400	93.66	38.6
321201	4oz	120	125.7	108	22/24mm-400	112.73	48.82
321801	6oz	180	190	139.5	24mm-400	127	55.5
322301	8oz	235	250	175	28mm-400	138.10	60.33
322302	8oz	235	250	152	24mm-400	136.35	59.92
324801	16oz	480	505	255	28mm-400	168.7	74.6



Vertical Tubular Bottles

VTB1201	120	162	108	39.5	103	55
VTB1801	180	253	132	39.5	141	55
VTB2401	240	294	181	39.5	167	55

ARC Tubular Bottles

ATB1201	120	194	96	52.9	88	65
ATB1501	150	230	105	52.9	94	65
ATB1801	180	275	135	52.9	118	65
ATB2401	240	325	155	52.9	142	65

Tilt Square Moulded Bottles

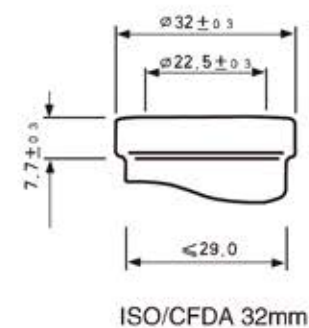
TSM0601	60	90	85	39.5	86	45.8
TSM0602	120	174	104	39.5	105	55.8
TSM0603	200	243	146	39.5	141	56

ARC Moulded Bottles

AMT0601	60	90	90	39.5	89.5	49
AMT1501	150	195	138	53.3	97.5	62.3
AMT2001	200	253	184	53.3	129	62.3
AMT2501	250	307	205	39.8	158	66



Ref.	ml	ml	ml	g		mm	mm	I	II
210501	50ml	50	68	65	ISO032	68	46	✓	✓
211001	100ml	100	128	100	ISO032	104	49	✓	✓
211501	150ml	150	207	136	ISO032	102.5	66	✓	✓
212502	250ml	250	297	145	ISO032	125	68	✓	✓
212501	250ml	250	308	175	ISO032	136	66	✓	✓
215002	500ml	500	584	220	ISO032	147	86	✓	✓
215001	500ml	500	588	250	ISO032	177	78	✓	✓





Ref.	ml	ml	ml	g			mm
300301	30ml	30	35.5	40	DIN28	67	35.0
300601	60ml	60	66	60	DIN28	94.5	38.6
300901	90ml	90	97	72	DIN28	103	44
301001	100ml	100	108	72	DIN28	104.8	46.1
301251	125ml	125	133	90	DIN28	114.4	49
301501	150ml	150	158	98	DIN28	122.8	51.6
302001	200ml	200	206	135	DIN28	134	57
302501	250ml	250	260	150	DIN28	142.9	61.7
303001	300ml	300	315	170	DIN28	152.5	65.7





Ref.	ml	ml	ml	g			mm
360101	10ml	10	12.5	27.5	DIN18	58.0	24.80
360151	15ml	15	20	35	DIN18	65.0	28.50
360201	20ml	20	22.5	35	DIN18	71.5	28.7
360301	30ml	30	35	48	DIN18	78.80	33.0
360501	50ml	50	57	55	DIN18	92.2	37.2
361001	100ml	100	105	88	DIN18	112.0	44.5
361501	150ml	150	155	110	DIN18	123.0	50.5



331001		100ml	100	120	130	56	64	61	✓	✓	✓	
330601		60ml	60	73	85	51.6	48.9	55	✓	✓	✓	✓
330502		50ml	50	55	93	51.5	42.5	56	✓	✓	✓	✓
330301		30ml	30	40	65	46.3	36	52	✓	✓	✓	✓
330202		20ml	20	23	45.6	41	29.5	46.5	✓	✓	✓	✓
330201		20ml	20	23.5	43.8	41.5	28.1	46.1			✓	
330152		15ml	15	18.6	46.6	39.7	28.7	43.8		✓		
330151		15ml	15	21.5	45	38.8	32	43.3	✓			





	350121	350350	350083	3500811	350081	350101
Size:	12ml	3.5ml	8ml	8ml	8ml	10ml
Height: mm	57	65	70.7	70	71.3	71.5
OD of body: mm	26	16.5	20.7	19.25	19.25	20
OD of neck: mm	13.7	12.6	15.8	14	15.8	15.9
Weight: g	31	18	24	23.5	23	22



	350043	350034	350044	350063	350064	350045
Size:	4ml	3ml	4ml	6ml	6ml	4ml
Height: mm	42.4	42.5	44.5	47.8	50	53
OD of body: mm	20.8	19.8	20	22	20	17.8
OD of neck: mm	12.7	13.6	15.8	13.7	16	12.8
Weight: g	16	13.8	14.5	20.5	17	14.2





Size:	20ml	6ml	6ml	10ml	10ml	2.5ml
Height: mm	80.5	60.25	66	57	54	40.5
OD of body: mm	25.8	19	19	21	25	21
OD of neck: mm	17.8	15.7	15.7	13.4	13.7	12.6
Weight: g	37.5	21	23	22	27.5	12



Size:	10ml	9ml	7ml	3ml	3ml	3ml	3ml
Height: mm	63	63.2	59	50.5	48	47.5	44.3
OD of body: mm	37	15	40	30	28	28	30
OD of neck: mm	10.6	9	10.8	10.8	8.7	8.7	7.1
Weight: g	26	25			15	15.6	11.5



350093

350094

350107

350084

350122

350108

Size:	9ml	9ml	10ml	8ml	12ml	10ml
Height: mm	54.5	55	57.5	61	59.5	61.1
OD of body: mm	28.5	33.5	23.5	31	37.6	30.2
OD of neck: mm	12.9	12.7	12.8	12.9	12.8	12.7
Weight: g	27.5	34	23	30	36	36



350058

350111

350072

350142

350059

3500912

Size:	5ml	11ml	7ml	14ml	5ml	9ml
Height: mm	38.7	50.5	52	51.2	52.8	50.5
OD of body: mm	24.5	30.5	31	34.9	21.2	27.5
OD of neck: mm	10.8	12.7	12.75	14.5	12.7	14.5
Weight: g	15.5	20.5	20.5	35	21	21.8



Size:	9ml	5ml	5ml	2ml	3ml
Height: mm	52.6	44.2	40.2	36.7	35.2
OD of body: mm	37	27.2	26.5	23	16.2
OD of neck: mm	14.4	12.7	12.8	11	11
Weight: g	38	19	17.8	12.2	8



Size:	8ml	5ml	5ml	5ml	4ml
Height: mm	47.6	38	41.5	39.2	38.5
OD of body: mm	28.8	24	15.5	33.5	26.2
OD of neck: mm	12.8	12.7	11.2	11.2	12.8
Weight: g	15.5	15	13.2	14	18



Size:	6ml	4ml	8ml	10ml	4.5ml
Height: mm	42.9	43.1	51	53	38
OD of body: mm	28.1	25	44.5	36	29
OD of neck: mm	12.7	12.7	12.6	14.7	12.7
Weight: g	24.5	18.5	36	37	18



Size:	13.5ml	10ml	3ml	6.5ml	5ml
Height: mm	52.2	45.6	40.2	40.6	38.2
OD of body: mm	28.5	30.7	23.2	23.75	22.5
OD of neck: mm	14.55	16.1	12.7	12.87	12.8
Weight: g	27	21	16.8	21	16



	3500513	3500412	3500514	350049-1	35005131	3500410	
Size:	5ml	4ml	5ml	4ml	5ml	4ml	
Height: mm	37.7	38	40.2	39.2	38.3	41.2	
OD of body: mm	26	22	22.8	21.2	24.2	20.93	
OD of neck: mm	12.8	12.7	12.8	11.5	12.8	12.8	
Weight: g	15	11.3	17.8	12	14	14	



	3500515	3500611	350049	3500720	350075	350086	
Size:	5ml	6ml	4ml	7ml	7.5ml	8ml	
Height: mm	42	42.9	44.5	45	57.5	59.85	
OD of body: mm	22	28.1	17	21.2	23	23	
OD of neck: mm	12.7	12.7	12.5	12.7	12.87	12.6	
Weight: g	15	24.5	14	16	21.5	17.5	



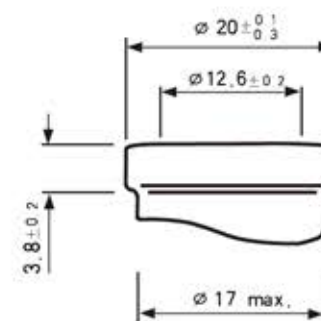
	350123	350095	350124	350096	350097	350109
Size:	12ml	9ml	12ml	9ml	9ml	10ml
Height: mm	56	55	54	55.5	61.5	65.6
OD of body: mm	27	35.5	30	30	34	26.4
OD of neck: mm	12.9	12.9	12.7	14.3	12.7	14.2
Weight: g	30	30	33.5	32.5	37.5	28.5



	3500415	350038	3500515	350067	350077	350077-1
Size:	4ml	7ml	5ml	6ml	6.7ml	9ml
Height: mm	41	40.8	44	45.1	47.6	50.5
OD of body: mm	22	25	26	22.9	31.8	33.8
OD of neck: mm	12.7	12.7	12.7	12.7	12.8	14.3
Weight: g	16.5	21.5	17	17	33	37



Ref.	ml	ml	ml	g		mm	mm	I	II	III
410071	7ml	7	9	12.9	ISO/CFDA	40.8	22.1	✓	✓	✓
410081	8ml	8	10	16.0	ISO/CFDA	46.8	23.0	✓	✓	✓
410101	10ml	10	15	21.0	ISO/CFDA	53.5	25.4	✓	✓	✓
410151	15ml	15	17	22.0	ISO/CFDA	58.8	26.5	✓	✓	✓
410201	20ml	20	26	29.0	ISO/CFDA	58.0	32.0	✓	✓	✓
410301	30ml	30	38	35.0	ISO/CFDA	62.8	36.0	✓	✓	✓
410501	50ml	50	60	50.0	ISO/CFDA	73.0	42.5	✓	✓	✓
411001	100ml	100	119	89.0	ISO/CFDA	94.5	51.6	✓	✓	✓



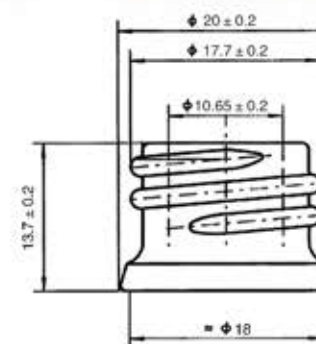
ISO/CFDA 20mm

Series complies with the norms ISO8362-4 and CFDA YBB00312002-2015。

本系列符合ISO8362-4 和中國國家食品藥品監督管理局YBB00312002-2015標準。

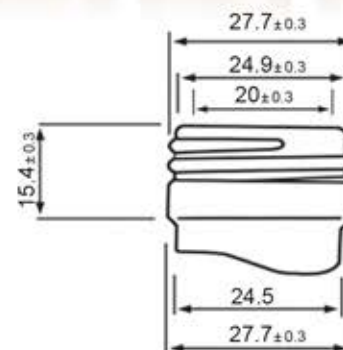


Ref.	ml	g	ml	g	DIN18	mm	mm
490051	5ml	5	6.7	22	DIN18	50.2	22
490101	10ml	10	12.5	27.5	DIN18	58.0	24.80
490151	15ml	15	20	32	DIN18	65.0	28.50
490201	20ml	20	22.5	35	DIN18	71.5	28.7
490251	25ml	25	29.5	35.8	DIN18	70.3	32.0
490301	30ml	30	35	48	DIN18	78.80	33.0
490501	50ml	50	57	55	DIN18	92.2	37.2
490601	60ml	60	66	70	DIN18	95.2	39.6
490751	75ml	75	79	75	DIN18	104.2	40.8
491001	100ml	100	105	88	DIN18	112.0	44.5
491501	150ml	150	155	110	DIN18	123.0	50.5





Ref.	ml	ml	ml	g			
440301	30ml	30	35	40	DIN28	67	35
440401	40ml	40	44.5	47	DIN28	69.85	38.35
440601	60ml	60	67.5	60	DIN28	94	38.6
441001	100ml	100	108	72	DIN28	104.8	46.1
441251	125ml	125	133	90	DIN28	114.4	49
441501	150ml	150	158	98	DIN28	122.8	51.6
441801	180ml	180	189	105	DIN28	129.9	54.7
442001	200ml	200	213	125	DIN28	134.5	57.5
442501	250ml	250	260	150	DIN28	142.9	61.7
443001	300ml	300	315	170	DIN28	152.5	65.7
445001	500ml	500	512	260	DIN28	176.8	76.8





Ref.	ml	ml	ml	g	PP	mm	mm
420151	15ml	15	17.7	31.9	PP 18mm	67.5	27.0
420301	30ml	30	35.0	46.0	PP 20mm	78.8	33.0
420601	60ml	60	65.0	74.8	PP 20mm	93.85	40.8
421201	120ml	120	130	97.0	PP 22mm	115.25	48.4
422501	250ml	250	260	185.5	PP 24mm	140	62.0



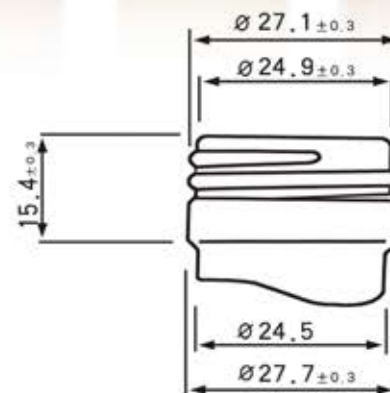


Ref.	ml	ml	ml	g		mm	mm
430151	1/2oz	14.2	16.4	25.5	GPI18-400	68.26	25
430301	1oz	31.3	36.2	44	GPI20-400	78.58	32.8
430601	2oz	60.8	63.8	58	GPI20-400	93.66	38.6
431201	4oz	120	125.7	108	GPI22-400	112.73	48.82
431801	6oz	180	190	140	GPI24-400	127	55.5
432301	8oz	235	250	175	GPI28-400	138.1	60.33
434801	16oz	480	505	255	GPI28-400	168.7	74.6
439601	32oz-1	960	1000	480	GPI28-400	205.7	94.5
439602	32oz	960	1000	480	GPI33-400	205.7	94.5

本系列瓶瓶口尺寸符合美國G.P.I 400號瓶口規定

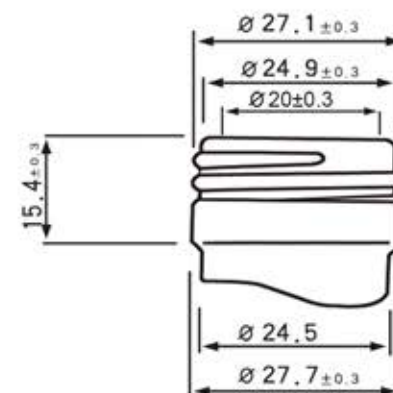


Ref.	ml	30	ml	g	PP28	mm	mm
500301	30ml	30	36.7	45	PP28	68.5	36.5
500604	60ml	60	70	71	PP28	93.5	42.5
500603	60ml	60	70	71	PP28	84.5	46.5
500601	60ml	60	71	68	PP28	97.3	41.0
500602	60ml	60	70	85	PP28	101	41.0
500901	90ml	90	93.5	95	PP28	117.8	40.5
501001	100ml	100	109	95	PP28	120.0	43.5
501002	100ml	100	112	109	PP28	115.4	47.0





Ref.	50ml	75ml	100ml	g	Screw Finish	Height (mm)	Diameter (mm)
450501	50ml	50	57	82	PP 28	107	35.0
450752	75ml	75	85	105	PP 28	107.0	43.0
451003	100ml	100	110	110	PP 28	120.7	44.3
451004	100ml	100	110	120	PP 28	123.5	44.6
451005	100ml	100	110	120	PP 28	126.0	45.2
451006	100ml	100	110	120	PP 28	120.0	44.5
451007	100ml	100	110	120	PP 28	126.0	44.6
451008	100ml	100	110	120	PP 28	123.5	45.2
451009	100ml	100	110	110	PP 28	120.7	44.3
45150K	150ml	150	176	151	PP 28	135.5	52.0





Ref.	ml	ml	ml	g			mm
460601	60ml	60	69	73	G.P.I 33-400	75.5	44.5
460752	75ml	75	86	84	G.P.I 38-400	82.5	45.3
461003	100ml	100	114	95	G.P.I 38-400	87.5	50.0
461204	120ml	120	135	108	G.P.I 38-400	95.0	52.8
461505	150ml	150	170	122	G.P.I 45-400	100	56.0
462006	200ml	200	226	151	G.P.I 45-400	109.5	61.4
462507	250ml	250	274	170	G.P.I 45-400	117.5	65.3
463008	300ml	300	330	216	G.P.I 45/53-400	126.5	68.2
464009	400ml	400	440	225	G.P.I 45/53-400	136.5	74.7
465010	500ml	500	550	270	G.P.I 45/53-400	147	81.0
466251	625ml	625	640	319	G.P.I 53-400	153.67	85.32
467501	750ml	750	800	357	G.P.I 53-400	165.1	92.08



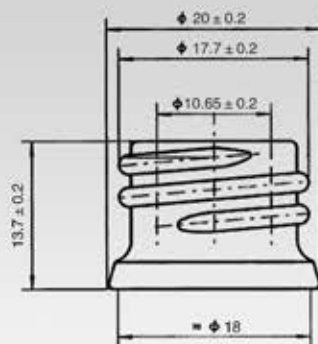
Ref.	ml	ml	ml	g		mm	mm
510151	15ml	15	18.0	33	PP22	63.0	28.5
480151	15ml	15	19.0	30	21mm	62.0	28.2
480201	20ml	20	26.4	47	PP 22	81.0	29.0
480251	25ml	25	29.0	38	23mm	71.9	30.8
480301	30ml	30	36.0	51	PP 22	84.5	32.5
480302	30ml	30	36.0	50	PP 25	88.5	30.0
480303	30ml	30	35.0	48	PP 22	89.0	30.0
510701	70ml	70	79.0	75	PP 25	100.5	41.5
511001	100ml	100	130.0	107	PP 25	114.0	49
511251	125ml	125	140.0	109	PP 25	120.0	49.5
512001	200ml	200	215	156	PP 25	134.0	58





Ref.	ml	ml	ml	g	PP18/PP24	mm	mm
530101	10ml	10	14.8	23	PP18	58	25.4
530301	30ml	30	36	38	PP24	74.1	33
530501	50ml	60	54	59	PP24	82.1	39.6
530601	60ml	60	70.5	58	PP24	86.2	41.8
530801	80ml	80	88	73	PP24	91.5	46.4
531001	100ml	100	113	92	PP24	99.8	49
531201	120ml	120	132.5	88	PP24	103	52.5
531501	150ml	150	165	103	PP24	109.2	56
532001	200ml	200	216	133	PP24	129.9	57.2
532501	250ml	250	273	152	PP24	138.9	62.2





Ref.	ml	g	DIN18	mm
490051	5ml	5	22	50.2
490101	10ml	10	27.5	58.0
490151	15ml	15	32	65.0
490201	20ml	20	35	71.5
490301	30ml	30	48	78.80
490501	50ml	50	55	92.2
491001	100ml	100	88	112.0





Dropper Bottle Series

							
5ml	6.7	22	DIN18	50.2	22	✓	✓
10ml	12.5	27.5	DIN18	58	24.8	✓	✓
15ml	20	32	DIN18	65	28.5	✓	✓
20ml	22.5	35	DIN18	71.5	28.7	✓	✓
30ml	35	48	DIN18	78.8	33	✓	✓
50ml	57	55	DIN18	92.2	37.2	✓	✓
100ml	105	88	DIN18	112	44.5	✓	✓

Boston Round Bottle Series

							
1/2oz	16.4	25.5	18mm-400	68.26	25	✓	✓
1oz	36.2	44	20mm-400	78.58	32.8	✓	✓
2oz	63.8	58	20mm-400	93.66	38.6	✓	✓
4oz	125.7	108	22mm-400	112.73	48.82	✓	✓
8oz	250	175	28mm-400	138.1	60.33	✓	✓
16oz	505	255	28mm-400	168.7	74.6	✓	

Wide Mouth Bottle Series

							
60ml	69	73	G.P.I400-33	75.5	44.5	✓	
75ml	86	84	G.P.I400-38	82.5	45.3	✓	
100ml	114	95	G.P.I400-38	87.5	50.5	✓	
120ml	135	108	G.P.I400-38	95.0	52.8	✓	✓
150ml	170	122	G.P.I400-45	100	56.0	✓	
200ml	225	151	G.P.I400-45	109.5	61.4	✓	
250ml	274	170	G.P.I400-45	117.5	65.3	✓	
300ml	335	210	G.P.I400-45/53	126.5	68.2	✓	
400ml	440	225	G.P.I400-45/53	136.5	74.7	✓	
500ml	550	270	G.P.I400-45/53	147	81	✓	



Amber Infusion Bottles

Shandong Pharmaceutical Glass Co., Ltd



232502	250	340.0	252	29mm	145.6	70.2
231001	100	120.0	103	20mm	109.0	47.7
232501	250	310.0	180	32mm	135.5	66.0
235002	500	570.0	274	29mm	177.0	78.6
235001	500	570.0	305	32mm	177.0	78.0
235003	500	544.0	310	29.3mm	192.5	75.2
232001	200	300.0	200	27.5mm	139.5	65.9
235004	500	580.0	328	27.5mm	168.0	82.5

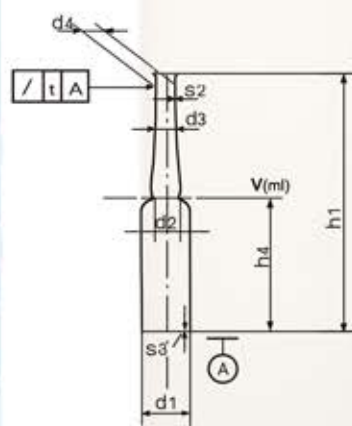
Glass Type	Hydrolytic resistance	Application
Type II	Soda-lime glass with sulfur treatment, with a high hydrolytic resistance resulting from suitable treatment of the surface of glass vial (only moulded glass vial)	Suitable for most acidic and neutral, aqueous preparations whether or not for parenteral use.
Type III	Soda-lime glass, with only moderate hydrolytic resistance (only moulded glass vial). Some factories use amber tubing glass container for oral use.	General suitable for non-aqueous preparations for parenteral use, for powders for parenteral use (not including freeze-dried preparations), and for preparations not for parenteral use.





Ref.	ml	ml	g		mm	mm
610021	2ml	4.2	4.6	ISO13	35	15.8
610071	7ml	10.5	8.2	CFDA	39.7	22
610081	8ml	11.5	9.4	ISO20	45	22
610102	10ml	13.5	10.2	ISO20	45	24
610151	15ml	18.5	13.4	CFDA	52	26.5
610121	12ml	15.5	11.6	ISO20	53	24
610201	20ml	23.5	15.0	CFDA	58	27.6
610301	30ml	33.5	21.5	CFDA	60	29.5
610251	25ml	32.5	16.5	ISO20	65	30





Chinese Form B Type Ampoules Series

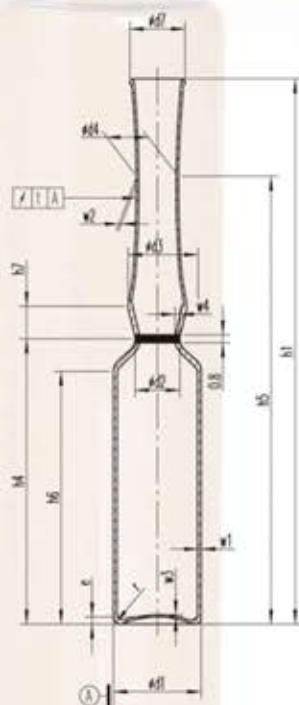
ml	d1	d2	d3	d4	h1	h4	s2	s3	V(ml)
1ml	10.0	6.3	7.8	5.0	60.0	25.0	0.20	0.20	1.5
2ml	11.5	7.0	8.5	5.5	70.0	36.5	0.20	0.20	2.9
3ml	12.75	7.3	8.5	6.0	75.0	39.5	0.20	0.20	3.5
5ml	16.0	8.2	10.0	6.0	87.0	43.0	0.20	0.30	6.8
10ml	18.40	8.8	11.0	6.8	102.0	58.5	0.25	0.30	12.3

ISO 9167-1 Form B Type Ampoules Series

ml	d1	d2	d3	h1	h4	s2	s3	V(ml)
1ml	10.75	6.5	6	60	25.5	0.37	0.3	1.5
2ml	10.75	6.5	6	72	37.5	0.37	0.3	2.3
3ml	12.75	6.5	6	75	39.5	0.37	0.3	3.5
5ml	14.75	7	7	83	46.5	0.40	0.4	5.5
10ml	17.75	7.5	7.1	102	62	0.47	0.4	11.5

Clear Glass Tubing

Made of Low Borosilicate
Glass Specification Scope:
9.5mm-30mm



ISO Form B Ampoules Series

ml	d1	d2	d3	d4	h1	h4	w2	w3
1ml	10.75	6.50	8.50	6.00	60.00	25.50	0.37	0.30
2ml	10.75	6.50	8.50	6.00	72.00	37.50	0.37	0.30
3ml	12.75	6.50	8.50	6.00	75.00	39.50	0.37	0.30
5ml	14.75	7.00	9.00	7.00	83.00	46.50	0.40	0.40
10ml	17.75	7.50	9.50	7.10	102.00	62.00	0.47	0.40

ISO Form C Ampoules Series

ml	d1	d2	d3	d4	h1	h4	w2	w3
1ml	10.75	6.50	8.50	6.00	67.00	25.50	0.37	0.30
2ml	10.75	6.50	8.50	6.00	79.00	37.50	0.37	0.30
3ml	12.75	6.50	8.50	6.00	82.00	39.50	0.37	0.30
5ml	14.75	7.00	9.00	7.00	90.00	46.50	0.40	0.40
10ml	17.75	7.50	9.50	7.10	109.00	62.00	0.47	0.40



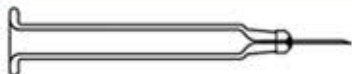
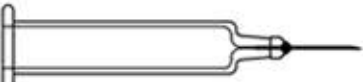
AVAILABLE FORMATS for PFS & GLASS CARTRIDGE

PFS Specification

- ◆ Sizes: from 1ml to 3ml
- ◆ Nest: 10x10pcs
- ◆ EO sterilization
- ◆ Customized ceramic printing(optional)
- ◆ “☆” means available

Supplier

Tubing Glass from Schott, Needle from Nipro

		RNS/硬护帽  Rigid Needle Shield SPG WEST	NS/软护帽  Needle Shield WEST	TC/Ribbed  Tip Cap SPG	鲁尔锁套  Luer Lock SPG	LLA  Luer lock Adapter WEST	柱塞  Rubber Plunger WEST	推杆  Plunger Rod QIAOPAI
	1ml long Φ8.15 Needle, 1/2" 27G, 5/8" 25G, 1" 23G	☆					☆	☆
	1ml STD Φ10.85mm Needle, 1/2" 27G, 5/8" 25G, 1" 23G	☆					☆	☆
	2.25ml, 3ml Φ10.85mm Needle, customized						☆	☆
	1ml STD, 2.25ml, 3ml Φ10.85mm Luer cone			☆	☆		☆	☆
	1ml Long Φ8.15mm Luer cone			☆	☆		☆	☆
	1.5ml Φ8.65mm x H57mm 1.8ml Φ8.65mm x H63mm 3.0ml Φ11.6mm x H62.3 1.8ml Φ8.56mm x H63mm	 Finish	Finish Dimension OD:7.15mm ID:3.15mm		 SPG Made	Al-seal Dim. ID7.45*4.9	 SPG Made	Piston Φ7.2 Piston Φ7.2 Piston Φ10 Piston Φ7.1
			OD:7.42mm ID:3.71mm			ID7.77*H4.9		



Ref No: 711311
 Size: 13-A
 OD of Flange: 12.50mm
 ID of Neck: 7.50mm
 Height of Flange: 2.00mm
 Total Height: 7.00mm



Ref No: 712011
 Size: 20-A
 OD of Flange: 18.80mm
 ID of Neck: 13.2mm
 Height of Flange: 3.30mm
 Total Height: 8.80mm



Ref No: 712020
 Size: 20-BX
 OD of Flange: 19.05mm
 ID of Neck: 13.30mm
 Height of Flange: 3.45mm
 Total Height: 8.45mm



Ref No: 712022
 Size: 20-B2
 OD of Flange: 19.50mm
 ID of Neck: 13.00mm
 Height of Flange: 3.00mm
 Total Height: 8.70mm



Ref No: 712023
 Size: 20-B3
 OD of Flange: 19.50mm
 ID of Neck: 13.00mm
 Height of Flange: 2.80mm
 Total Height: 8.50mm



Ref No: 712025
 Size: 20-B2-01
 OD of Flange: 19.50mm
 ID of Neck: 13.00mm
 Height of Flange: 3.00mm
 Total Height: 8.70mm

Size of 13A, 20A, 20B comply with norms ISO 8362-2 and YBB00052005-2015, Other complies with YBB00052005-2015.
 规格为13A, 20A, 20B符合ISO 8362-2标准和注射用无菌粉末用卤化丁基橡胶塞YBB00052005-2015, 其他符合YBB00052005-2015。



Ref No: 732821
Size: 28-B
OD of Flange: 27.10mm
ID of Neck: 17.80mm
Height of Flange: 3.40mm
Total Height: 10.20mm

Ref No: 732822
Size: 28-B-1
OD of Flange: 26.60mm
ID of Neck: 18.00mm
Height of Flange: 3.80mm
Total Height: 11.80mm

Ref No: 733211
Size: 32-A
OD of Flange: 30.80mm
ID of Neck: 23.60mm
Height of Flange: 4.00mm
Total Height: 12.20mm

Ref No: 733212
Size: 32-A-1
OD of Flange: 31.00mm
ID of Neck: 24.20mm
Height of Flange: 5.00mm
Total Height: 16.00mm

Size of 32-A complies with the norm ISO 8362-2, Size of 32-A-1 according to DIN STD.



Ref No: 721302
 Size: 13-D2
 OD of Flange: 12.50mm
 ID of Neck: 7.50mm
 Height of Flange: 2.00mm
 Total Height: 10.20mm

Ref No: 721304
 Size: 13-D4
 OD of Flange: 12.5mm
 ID of Neck: 7.50mm
 Height of Flange: 2.50mm
 Total Height: 9.90mm

Ref No: 722002
 Size: 20-D2
 OD of Flange: 18.80mm
 ID of Neck: 13.20mm
 Height of Flange: 3.30mm
 Total Height: 14.00mm

Ref No: 722003
 Size: 20-D3
 OD of Flange: 18.80mm
 ID of Neck: 13.10mm
 Height of Flange: 3.30mm
 Total Height: 13.80mm



Ref No: 750222
 Size: 20E6-1
 OD of Flange: 19.5±0.1
 ID Of Neck: 13.20±0.1
 Height of Flange: 3.00±0.2
 Total Height: 6.7±0.2
 (Rubber Stopper with Teflon Coating)

Ref No: 750253
 Size: Φ25
 Diameter1: 28.0±0.2
 Diameter2: 31.8±0.3
 Total Height: 16.0±0.3
 Height of Flange: 5.0±0.2

Ref No: 750251
 Size: 25-B3
 Diameter: 24.8±0.1
 Total Height: 7.0±0.2
 Inner Height: 4.4±0.2
 Piercing Height: 2.5±0.2

Ref No: 750252
 Size: 25-A2
 Diameter: 25±0.1
 Total Height: 6.1±0.1
 Inner Height: 4.5±0.2
 Piercing Height: 2.5±0.2

Product Introduction of Rubber Stopper with Teflon Coating

應用領域 Fields of application

- 化學和生物活性敏感藥物
Sensitive drugs especially SVP
- 普通膠塞和藥物相容性無法解決
Aggressive preparations which are not compatible with non-coated

優點 Advantage

- 消除藥物和橡膠接觸
Eliminates drug-rubber interactions
- 優良的氣密性能
Perfect seal
- 無藥物生產後之憂
Trouble-free processing
- 降低顆粒污染的可能性
Reduced particle contamination



Ref No: 810131
Size: ZD-13
d1: 13.3
d2: 15min. 16max.
d3: 3min. 8max.
h1: 6.3
h2: 7.3min. 8.4max.
e: 0.168~0.242



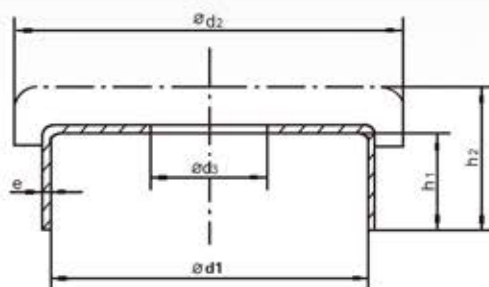
Ref No: 810202
Size: SZD-20a
d1: 20.3
d2: 22.2min. 23.2max.
d3: 6min. 10max.
h1: 7.3
h2: 8.7min. 9.8max.
e: 0.168~0.242



Ref No: 810201
Size: SZB-20Ta
d1: 20.3
d2: 22.2min. 23.2max.
d3: 6min. 10max.
h1: 7.3
h2: 8.7min. 9.8max.
e: 0.168~0.242



Ref No: 810200
Size: 20a
d1: 20.0min. 20.3max.
d2:
d3:
h1: 7.3
h2:
e: 0.168~0.242



Dimension in mm



Ref No: 810203
Size: ZB-20Tb
d1: 20.0
d2: 22.0min. 23.0max.
d3: 6min. 10max.
h1: 7.3/6.9
h2: 8.7min. 9.8max.
e: 0.168~0.242



Ref No: 810281
Size: ZB-28
d1: 28.6
d2: 31.2min. 32.2max.
d3: 12min. 17max.
h1: 9.6
h2: 10.5min. 12max.
e: 0.168~0.242



Ref No: 810321
Size: SZB-32-5
d1: 32.6
d2: 35.5min. 37max.
d3: 15min. 20max.
h1: 12.1
h2: 13min. 16max.
e: 0.168~0.242

精油瓶和波斯頓瓶配套蓋、滴管、內塞和膠頭

Caps and Accessories for Dropper & Boston Round Bottles

770051



770052



770053



770051	DIN18	21
770052	DIN18	20.75
770053	DIN18 PP	21.8



770091	GPI20-400	25.5
770092	DIN18 PP	24.6
770093	DIN18 PP	24.5

770091



OK Dropper Cap for Boston Round Bottle



770092



Child Resistant Dropper Cap 18mm-41.5



770093



Child Resistant Dropper Cap 18mm-41.5



770021



770022



770023



770021	DIN18 PP	25
770022	DIN18 PP	21.8
770023	DIN18	21

770041



770031-34



770061-64



770041	DIN18
770031	GPI18-400
770032	GPI20-400
770033	GPI22-400
770034	GPI28-400
770061	GPI400-33
770062	GPI400-38
770063	GPI400-45
770064	GPI400-53



770065	GPI400-33
770066	GPI400-38
770067	GPI400-45
770068	GPI400-53
770072	DIN28 PP
770073	DIN28 PP

770065



770072



770073



770081



770082-83



770084-85



770081	12.7mm
770082	13mm
770083	16mm
770084	13mm
770085	16mm



770071



770074



770075



770076



770077



PE Plug

Article NO.	DWG No.	Color	Material	TE	TE Ring Color	CRC Suitable for Neck Finish	Sealed by	Total Height	OD of Cap
770071	28-DIN-ZD	White	PP	√	White	x Φ28-H15.4-D20	PE Plug	23.7mm	32.6mm
770074	28-PP	White	PP	√	Green/Yellow/Red/White	x Φ28-H15.4	PE Foam Liner	20.0mm	32.3mm
770075	28-CRC	White	PP	√	White	√ Φ28-H15.4-D20	PE Plug	29.2mm	35.1mm
770076	28-MCA	White	PP	√	White/Customized	x Φ28-H14.2	PE Foam Liner	18.8mm	32.3mm
770077	28-CREB	White	PP	√	White	√ Φ28-H15.4-D20	PE Plug	24.2mm	35.2mm

Remark: Φ28-H15.4-D20 means that screw neck finish 28mm of syrup bottle is with 15.4mm finish height and inner diameter 20mm. TE means tamper evidence



770021



770022



770028



770029



770030



770031

Article NO.	Name	Cap Color	Material	TE	Match Insert	TE Ring Color	OD of Cap	Total Height
770021	YB1-K/YB3-S	WH/BK	PE	✓	780002	WH/BK	24.9mm	21.6mm
770022	YB2-K/S	WH/BK	PE	✓	780001	WH/BK	21.8mm	19.7mm
770028	18-UH	WH	PE	✓	780003	GN/YE/RD/WH	24.6mm	21.4mm
770029	18-AB	WH	PE	✓	780004	WH	21.8mm	20.4mm
770030	Y10-K	BK/Golden	PE	✓	780005	BK	25.6mm	30.0mm
770031	Y21-K	WH/BK	PE+PP	CRC	780006	WH/BK	24.1mm	23.1mm

Remark: WH means White.





780001



780002



780003



780004

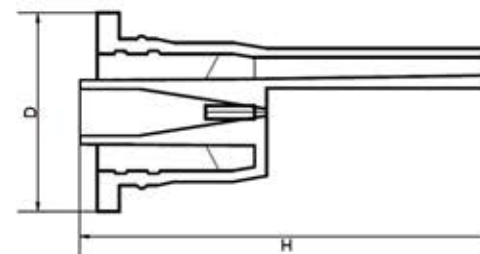


780005



780006

Match Insert	Material	Oil hole	Air hole	H(mm)	D(mm)
780001	LDPE	0.65mm	1.0mm	28.9	14.3
780002	LDPE	0.5mm/0.7mm/1.5mm	1.0mm	30.4	14.6
780003	LDPE	0.7mm	0.9mm	28.0	15.2
780004	LDPE	0.5mm	0.7mm	28.2	15.2
780005	LDPE	0.6mm	0.8mm	30.2	14.5
780006	LDPE	0.5mm/0.8mm	1.2mm	17.5	14.5





Ref.	ml	g	mm	mm	mm
910101	10ml	3.2	20.6	40.2	25.3
910121	12ml	4.0	23.6	44.2	27.2
910151	15ml	5.2	21.7	48.4	28.8
910301	30ml	6.1	25.7	56.5	34.2
910501	50ml	9.8	29.2	66.8	37.6
910601	60ml	12.5	33.4	68.0	40.0
911001	100ml	13.0	33.4	79.6	46.8



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China National Accreditation Service for Conformity Assessment
LABORATORY ACCREDITATION CERTIFICATE

(Registration No. CNAS L4302)

**Shandong Pharmaceutical Glass Co., Ltd. Quality
Inspection Center**

No.1 Yotao Road, Yunmu Zibo, Shandong, China

*is accredited in accordance with ISO/IEC 17025:2005 General
Requirements for the Competence of Testing and Calibration
Laboratories(CNAS-CL01 Accreditation Criteria for the Competence
of Testing and Calibration Laboratories) for the competence to undertake
the service described in the schedule attached to this certificate.*

*The scope of accreditation is detailed in the attached schedule
bearing the same registration number as above. The schedule forms
an integral part of this certificate.*

Date of Issue: 2013-04-14
Date of Expiry: 2015-04-14
Date of Initial Accreditation: 2009-12-03

Signed on behalf of China National Accreditation Service for Conformity Assessment



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FSSC 22000 Certificate



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