双峰格雷斯海姆

成长在中国，服务在中国

历程

The history & progress

2006年

与德国Gerresheimer成立合资公司

In 2006, Joint Venture with Gerresheimer

2002年

双峰公司镇江生产基地投入运行

In 2002, SFPP Zhenjiang production facility was commenced

1999年

双峰公司通过ISO9001质量体系认证

In 1999,SFPP received the certification of the system of quality certification (ISO9001)

1988年

第一批ZP-18制瓶机投入生产运行

In 1988, the first batch of the ZP-18 vial machine were put into production

1983年

在两间租赁的阁楼里，“双峰”开始了创业之路

In 1983, the founder of SFPP began operation in two rented lofts

进步，源于每一次真诚的合作

The progress - resulting from sincere cooperation

2015年

镇江工厂通过ISO15378体系认证

In 2015, Zhenjiang Plant passed ISO15378

2014年

丹阳工厂CNAS实验室通过认证

In 2014, Danyang Plant passed CNAS Laboratory

2013年

丹阳工厂通过ISO15378体系认证

In 2013, Danyang Plant Pass ISO 15378 Certificate

2011年

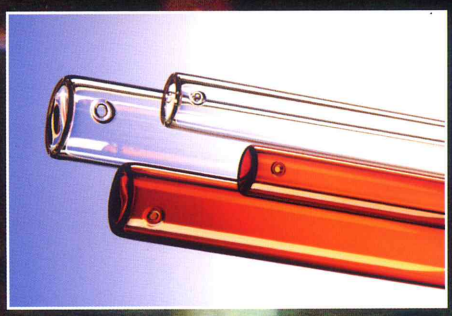
Phoenix项目启动

In 2011, Project Phoenix was initiated

2009年

丹阳生产基地正式运行

In 2009, Danyang Plant started formal operation



SGS ISO 15378:2011 NO. CN13/20253

ISO/IEC 17025:2005 NO. CNAS L6882

ISO14001:2004 GB/T24001-2004 NO. 00115E2065R2M/3200

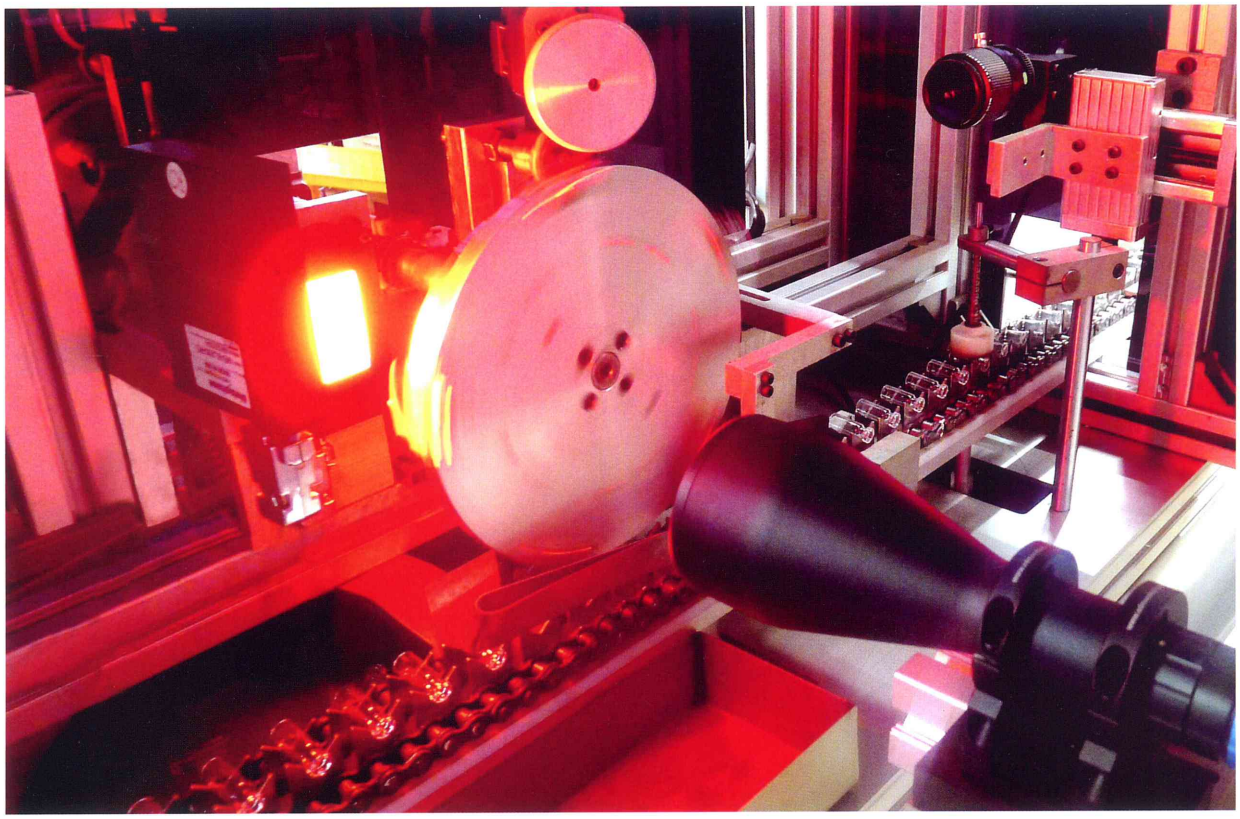
卓越品质的追求者

The pursuer of the preeminent quality in pharmaceutical packaging

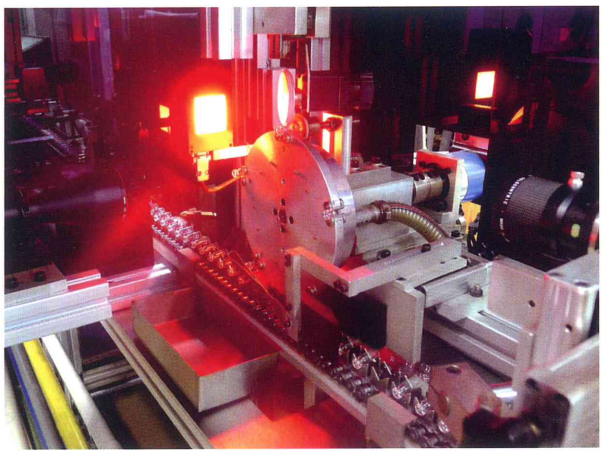
- 30多年的医药玻璃制造经验
- 3个专业生产基地
- 4大核心产品:
  药用小瓶
  卡式瓶
  安瓿
  生命科学小瓶
- 品质符合ISO、EP、USP标准
- 完整的有可追溯性的批生产记录
- 在线成像检测系统
- SPC、CPK被广泛运用于生产和质量控制
- 通过ISO15378、ISO14001、ISO9001质量管理体系认证
- CNAS实验室
- 为客户提供个性化的包装解决方案

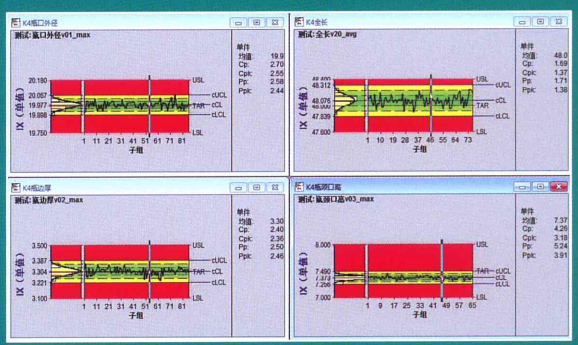
- Nearly 30 years pharmaceutical glass manufacturing experience
- 3 Professional production bases
- 4 Main Products:
  Vails
  Cartridges
  Ampoules
  Life Science Vials
- Product quality is confirm to ISO,EP,USP Standard
- Complete and traceable batch record of production
- On-line vision inspection system
- SPC, CPK is widely used in production and quality control
- Pass the ISO15378,ISO14001 and ISO9001 quality management system
- CNAS Lab.
- Provide personalized packing solution to customer

Vision inspection system is widely used in production



- The big data analysis system established on Vision inspection system
- It can directly show the production status of each line and guarantee the more reliable quality
- It can remind the Operator to adjust products which are within the limits but near upper and lower limits
- It can assist in defect analysis statitics





Example：

10ml(22.0*48.0)

CPK: LIP OD：2.55

Neck-lip height：3.18

Body length：1.37

Lip height：2.36

ShuangFeng GERRESHEIMER

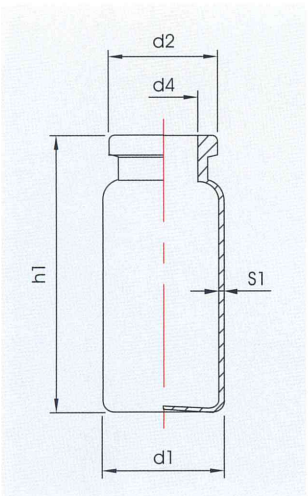
The partner of excellence for the pharmaceutical industry in China and the world.

Vials

Pharmaceutical glass has more advantages over other material. Glass is defined like this in the pharmaceutical field: it has good chemical stability, heat-resistant stability, certain mechanical strength, and also has series of physicochemical property like brightness & cleanness, transparency, easiness for cleaning and sanitizing, good capability of sealing, etc.

Injection vials made of neutral borosilicate glass tubing, because of its ideal hydrolytic resistance, resistance to thermal, shock, freeze, acid and alkali and its outstanding tolerance, is the first choice of pharmaceutical packaging for biologics, lyophilization, vaccines and blood preparation.

Low Borosilicate Tubular made Injection Vial has certain well performance on chemical stability and shock resistance, as containing 5-8% Boron Trioxide, have been extensively used for filling all kinds of water injection, powder injection pharmaceutical products.



Size of injection vial (ml)	Overflow capacity (ml)	d1 (mm)	d2 (mm) +0.2/-0.3	d4 (mm) ±0.2	h1 (mm)	s1 (mm)
2R	4 ± 0.5	16 ± 0.2	13	7	35 ± 0.5	1.0±0.04
4R	6 ± 0.5	16 ± 0.2	13	7	45 ± 0.5	1.0±0.04
6R	10 ± 0.5	22 ± 0.2	20	12.6	40 ± 0.5	1.0±0.04
8R	11.5 ± 0.5	22 ± 0.2	20	12.6	45 ± 0.5	1.0±0.04
10R	13.5 ± 1.0	24 ± 0.2	20	12.6	45 ± 0.5	1.0±0.04
15R	19 ± 1.0	24 ± 0.2	20	12.6	60 ± 0.5	1.0±0.04
20R	26 ± 1.6	30 ± 0.3	20	12.6	55 ± 0.7	1.2±0.05
25R	32.5 ± 1.6	30 ± 0.3	20	12.6	65 ± 0.7	1.2±0.05
30R	37.5 ± 1.6	30 ± 0.3	20	12.6	75 ± 0.7	1.2±0.05

The above specs are as per international standards,but the specs modified as per customer's requirment

Customer Satisfaction is our working target

Various vails with special requestments : Produce the optimum vials based on our customer requirement and drug requirement.

Screw neck vial

Mainly used for filling testing reagent, oral solution and perfume.

Neutralized vails

Be mainly applied to pharmaceutical packing solutions which are sensitive to PH.

Siliconized vial for injection

Is also called hydrophobic vial, mainly used for filling costly antibiotics, biologics, gene drugs etc.

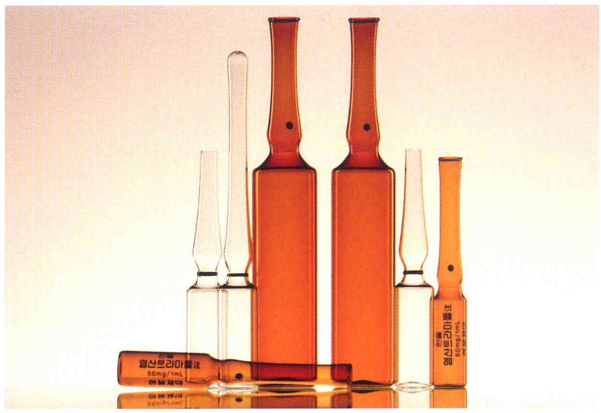
Special specification vial

We can design special tubular glass vial according to the requirements of the customer such as vials with blow-back, double chambered vial and so on.

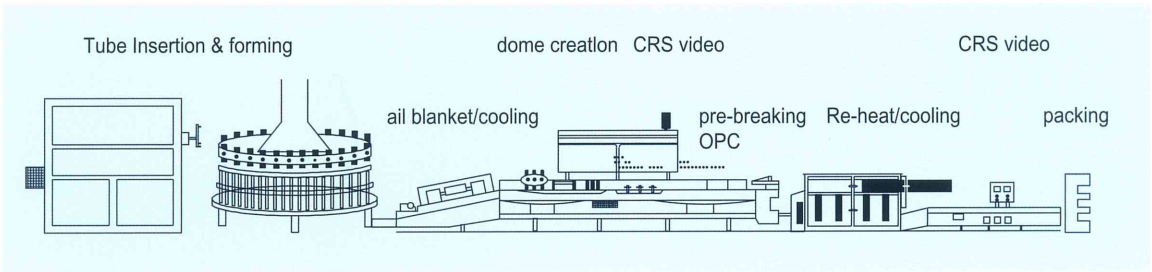
Technology-the root of our specialty

Ampoules

We provide all kinds of easy break ampoules. After the fine process of the automatic forming, scoring and camera inspection, high quality glass turn into OPC ampoules, color-break ampoules, amber ampoules and printed ampoules

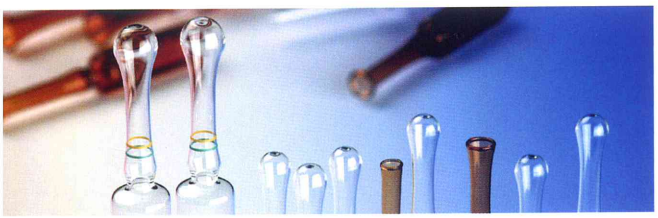


Full-automatic ampoules machines (with camera inspection system)



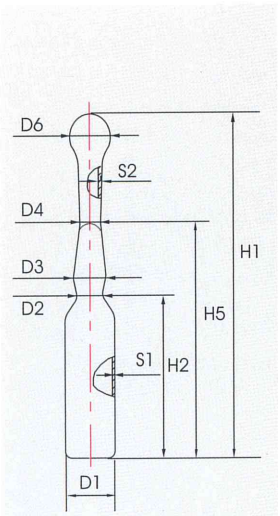
OPC technology

The technology used in the production of OPC ampoules is the support of electronic controlling system with skilled technician control over the timing, duration and the pressure when the high speed rotating etching disk approach the constriction of the ampoule in order to achieve the targets of precise dot position, steady dot dimension and no color difference.



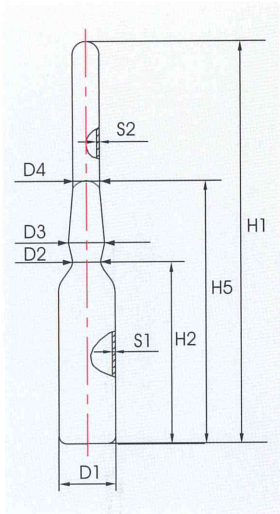
安瓿规格说明 Technical specification–Ampoule

FORM-D



Volume	1ML	2ML	3ML	5ML	10ML	20ML	25ML	30ML
D1	10.75 ±0.15	10.75 ±0.15	12.75 ±0.15	14.75 ±0.15	17.75 ±0.20	22.5 ±0.25	22.5 ±0.25	22.5 ±0.25
D2	6.5 ±0.50	6.5 ±0.50	6.5 ±0.50	7.0 ±0.50	7.5 ±0.50	8.5 ±0.50	8.5 ±0.50	8.5 ±0.50
D3	8.5 ±0.50	8.5 ±0.50	8.5 ±0.50	9.0 ±0.50	9.5 ±0.50	12.0 ±1.0	12.0 ±1.0	12.0 ±1.0
D4	6.0 ±0.50	6.0 ±0.50	6.0 ±0.50	7.0 ±0.50	7.1 ±0.60	7.8 ±0.80	7.8 ±0.80	7.8 ±0.80
D6	10.0 ±1.0	10.0 ±1.0	10.5 ±1.0	12.0 ±1.0	13.5 ±1.0	13.5 ±1.0	13.5 ±1.0	13.5 ±1.0
H1	70.0 ±1.0	83.0 ±1.0	89.0 ±1.0	95.0 ±1.0	112.0 ±1.0	126.0 ±1.0	141.0 ±1.0	156.0 ±1.0
H2	25.5 ±0.50	37.5 ±0.50	39.5 ±0.50	46.5 ±0.50	62.0 ±1.0	76.0 ±1.3	91.0 ±1.3	106.0 ±1.3
H5	47.0 ± 2.0	57.0 ± 2.0	62.0 ± 2.0	68.0 ± 2.0	87.0 ± 2.0	100.0 ± 2.0	115.0 ± 2.0	130.0 ± 2.0
S1	0.5 ± 0.03	0.5 ± 0.03	0.5 ±0.03	0.55 ±0.03	0.6 ±0.04	0.7 ±0.04	0.7 ±0.04	0.7 ±0.04
S2	0.37 ±0.05	0.37 ±0.05	0.37 ±0.05	0.42 ±0.05	0.47 ±0.05	0.55 ±0.05	0.55 ±0.05	0.55 ±0.05

FORM-E

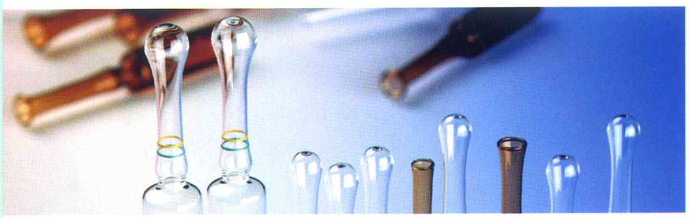


Volume	1ML	2ML	3ML	5ML	10ML	20ML	25ML
D1	10.75 ±0.15	10.75 ±0.15	12.75 ±0.15	14.75 ±0.15	17.75 ±0.20	22.5 ±0.25	22.5 ±0.25
D2	6.5 ± 0.50	6.5 ± 0.50	6.5 ± 0.50	7.0 ±0.50	7.5 ±0.50	8.5 ±0.50	8.5 ±0.50
D3	8.5 ± 0.50	8.5 ± 0.50	8.5 ± 0.50	9.0 ±0.50	9.5 ±0.50	12.0 ±1.0	12.0 ± 1.0
D4	6.0 ± 0.50	6.0 ± 0.50	6.0 ± 0.50	7.0 ±0.50	7.1 ±0.60	7.8 ±0.80	7.8 ±0.80
H1	85.5 ± 0.50	97.5 ± 0.50	100.0 ± 0.50	110.0 ± 0.5	127.0 ± 1.0	150.0 ± 1.0	158 .0 ± 1.0
H2	25.5 ± 0.50	37.5 ± 0.50	39.5 ± 0.50	46.5 ±0.50	62.0 ± 1.0	76.0 ± 1.3	91.0 ± 1.3
H5	47.0 ± 2.0	57.0 ± 2.0	62.0 ± 2.0	68.0 ± 2.0	87.0 ± 2.0	100.0 ± 2.0	115.0 ± 2.0
S1	0.5 ± 0.03	0.5 ± 0.03	0.5 ± 0.03	0.55 ±0.03	0.6 ±0.04	0.7 ±0.04	0.7 ±0.04
S2	0.37 ± 0.05	0.37 ± 0.05	0.37 ± 0.05	0.42 ±0.05	0.47 ±0.05	0.55 ±0.05	0.55 ±0.05

D1:瓶身外径 Body diameter
D2:缩颈外径 Constriction diameter
D3:泡外径 Bulb diameter
D4:丝外径 Stem diameter
D6:圆顶外径 Dome diameter

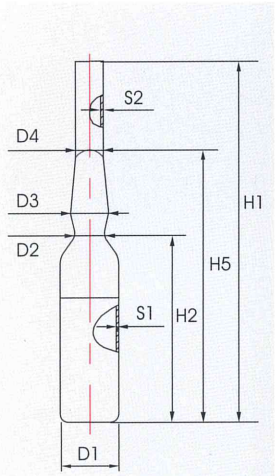
H1: 瓶全长 Total Height
H2: 底至颈高 Constriction height
H5: 封口高度 Sealing height

S1: 瓶身壁厚 Body wall thickness
S2: 丝壁厚 Stem wall thickness



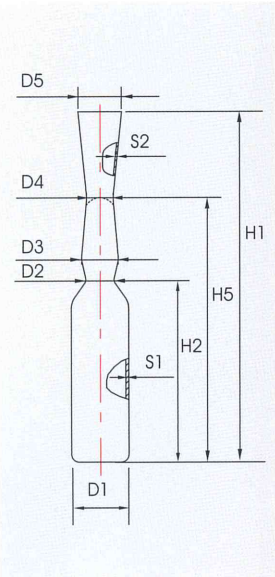
安瓿规格说明 Technical specification–Ampoule

FORM-B



Volume	1ML	2ML	3ML	5ML	10ML	20ML	25ML	30ML
D1	10.75 ±0.15	10.75 ±0.15	12.75 ±0.15	14.75 ±0.15	17.75 ±0.20	22.5 ±0.25	22.5 ±0.25	22.5 ±0.25
D2	6.5 ±0.50	6.5 ±0.50	6.5 ±0.50	7.0 ±0.50	7.5 ±0.50	8.5 ±0.50	8.5 ±0.50	8.5 ±0.50
D3	8.5 ±0.50	8.5 ±0.50	8.5 ±0.50	9.0 ±0.50	9.5 ±0.50	12.0 ±1.0	12.0 ±1.0	12.0 ±1.0
D4	6.0 ±0.50	6.0 ±0.50	6.0 ±0.50	7.0 ±0.50	7.1 ±0.60	7.8 ±0.80	7.8 ±0.80	7.8 ±0.80
H1	60.0 ±0.50	72.0 ±0.50	75.0 ±0.50	83.0 ±0.5	102.0 ±0.5	113.0 ±1.0	128.0 ±1.0	143.0 ±1.0
H2	25.5 ±0.50	37.5 ±0.50	39.5 ±0.50	46.5 ±0.50	62.0 ±1.0	76.0 ±1.3	91.0 ±1.3	106.0 ±1.3
H5	47.0 ±2.0	57.0 ±2.0	62.0 ±2.0	68.0 ±2.0	87.0 ±2.0	100.0 ±2.0	115.0 ±2.0	130.0 ±2.0
S1	0.5 ±0.03	0.5 ±0.03	0.5 ±0.03	0.55 ±0.03	0.6 ±0.04	0.7 ±0.04	0.7 ±0.04	0.7 ±0.04
S2	0.37 ±0.05	0.37 ±0.05	0.37 ±0.05	0.42 ±0.05	0.47 ±0.05	0.55 ±0.05	0.55 ±0.05	0.55 ±0.05

FORM-C



Volume	1ML	2ML	3ML	5ML	10ML	20ML	25ML	30ML
D1	10.75 ±0.15	10.75 ±0.15	12.75 ±0.15	14.75 ±0.15	17.75 ±0.20	22.5 ±0.25	22.5 ±0.25	22.5 ±0.25
D2	6.5 ±0.50	6.5 ±0.50	6.5 ±0.50	7.0 ±0.50	7.5 ±0.50	8.5 ±0.50	8.5 ±0.50	8.5 ±0.50
D3	8.5 ±0.50	8.5 ±0.50	8.5 ±0.50	9.0 ±0.50	9.5 ±0.50	12.0 ±1.0	12.0 ±1.0	12.0 ±1.0
D4	6.0 ±0.50	6.0 ±0.50	6.0 ±0.50	7.0 ±0.50	7.1 ±0.60	7.8 ±0.80	7.8 ±0.80	7.8 ±0.80
D5	9.0 ±0.8	9.0 ±0.8	10.7 ±0.8	12.2 ±1.0	13.0 ±1.0	14.0 ±1.0	14.0 ±1.0	14.0 ±1.0
H1	67.0 ±1.0	79.0 ±1.0	82.0 ±1.0	90.0 ±1.0	109.0 ±1.0	120.0 ±1.5	135.0 ±1.5	150.0 ±1.5
H2	25.5 ±0.50	37.5 ±0.50	39.5 ±0.50	46.5 ±0.50	62.0 ±1.0	76.0 ±1.3	91.0 ±1.3	106.0 ±1.3
H5	47.0 ±2.0	57.0 ±2.0	62.0 ±2.0	68.0 ±2.0	87.0 ±2.0	100.0 ±2.0	115.0 ±2.0	130.0 ±2.0
S1	0.5 ±0.03	0.5 ±0.03	0.5 ±0.03	0.55 ±0.03	0.6 ±0.04	0.7 ±0.04	0.7 ±0.04	0.7 ±0.04
S2	0.37 ±0.05	0.37 ±0.05	0.37 ±0.05	0.42 ±0.05	0.47 ±0.05	0.55 ±0.05	0.55 ±0.05	0.55 ±0.05

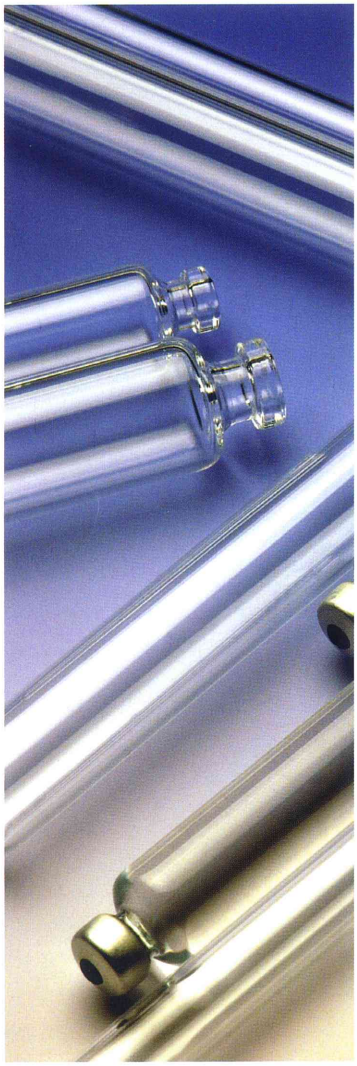
D1:瓶身外径 Body diameter
D2:缩颈外径 Constriction diameter
D3:泡外径 Bulb diameter
D4:丝外径 Stem diameter
D5:喇叭口外径 Funnel diameter

H1: 瓶全长 Total Height
H2: 底至颈高 Constriction height
H5: 封口高度 Sealing height

S1: 瓶身壁厚 Body wall thickness
S2: 丝壁厚 Stem wall thickness

GERRESHEIMER
双峰® 玻璃

Innovation accomplishing customer's dreams



Cartridge

Cartridge is the ideal packaging for drug of mass storage, it can control the dose precisely through pen system or pump system automatic injection device or non-pinhead injection device.

EPA VOA Vials

Recommended for Volatile Organic Sampling

Open Top Vials

- Manufactured from EXP 70 borosilicate glass and certification meets or exceeds EPA standards for volatiles
- Available in clear or amber borosilicate glass
- Assembled polypropylene caps and PTFE-faced silicone septa
- Directly compatible with autosamplers
- Chipboard divider packaging to cushion and protect vials during shipping

Catalog No.	Glass Type	Cap.(mL)	O.D.×Ht. (mm)	GPI Thread Finish	Case Qty.
401202750007	clear	20	28*60	24-414	72
401402750018	clear	40	28*98	24-414	72
401602750003	clear	60	28*143	24-414	144
401202750008	amber	20	28*60	24-414	72
401402750019	amber	40	28*98	24-414	72
401602750004	amber	60	28*143	24-414	144

Scintillation Vials

7ml 20ml Glass Scintillation Vials with Closures

- Manufactured from clear KG-33 borosilicate glass
- Choose from a variety of cap materials and liners
- Vials are packed in cellular trays of 100 pcs, 5 trays per case
- Trays are shrink-wrapped to preserve cleanliness

Catalog No.	Cap Size (mm)	O.D.×Ht. (mm)	Cap Material	Cap Liner	Case Qty.
404071675001	15	16.75*55	urea	cork-backed foil	1000
404071675004	15	16.75*55	polypropylene	pulp-backed foil	1000
404202750009	22	27.5*57.5	urea	cork-backed foil	500
404202750013	22	27.5*57.5	polypropylene	pulp-backed foil	500
404202750016	22	27.5*57.5	polypropylene	foamed polyethylene	500
404202750029	22	27.5*57.5	urea	Polyseal cone	500
404202750020	22	27.5*57.5	polypropylene	inerless	500
404202750012*	24	27.5*57.5	urea	cork-backed foil	500

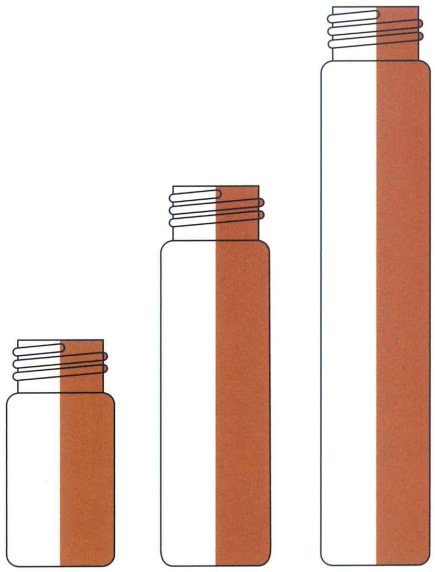
*Wider opening facilitates introduction of large size samples

EPA Water Analysis Vials

◆ Clear and amber screw thread EPA vials for the collection and storage of water samples comply with the guidelines for establishing test procedures for the analysis of pollutants (Ref.EPA Methods 601,602,603 and 604).

◆ Clear EPA vials are fabricated from KG-33 borosilicate glass. Amber EPA vials, for light sensitive solutions, are fabricated from amber 203 borosilicate glass.

◆ Open top closures and PTFE-faced silicone septa are available.



◆ Available in clear KG-33 or amber 203 borosilicate glass

◆ Open top, white polypropylene, screw thread closures

◆ PTFE-faced silicone septa included

◆ GPI 24-400 thread finish

Catalog No.	Glass Type	Cap.(mL)	O.D.×Ht. (mm)	GPI Thread Finish	Case Qty.
404202750005	clear	20	28*57	24-400	432
404252750001	clear	30	28*70	24-400	432
404402750002*	clear	40	28*95	24-400	432
404502750001	clear	45	28*108	24-400	432
404602975001	clear	60	30*123	24-400	432
407202750001	amber	20	28*57	24-400	432
407302750001*	amber	40	28*95	24-400	432

* Comply with EPA 40 CFR 136 and EPA 40 CFR 141

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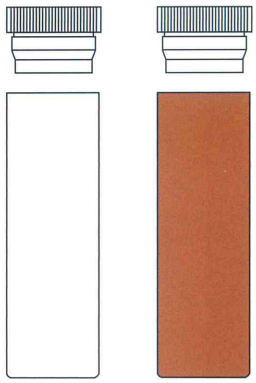
Screw Thread Vials

- Manufactured from clear KG-33 borosilicate glass or clear N-51A borosilicate glass or amber 203 borosilicate glass
- with or without closure

Catalog number	Cap. (ml)	O.D.*Ht. (mm)	GPI	Case Qty.
404011175001	2	12*35	8-425	144
404031475004	4	15*45	13-425	144
405041575001	5.5	16*50	13-425	144
404051675002	8	17*60	15-425	144
404071875002	12	19*65	15-425	144
404102075002	16	21*70	18-400	14
404202275002	24	23*85	20-400	144
405302475001	30	25*95	22-400	144
404402750001	40	28*95	24-400	72

Shell Vials

- Manufactured from clear N-51A borosilicate glass
- Plain top
- Lab Pack Quantities
- With or without plastic closure



Catalog number	Cap. (ml)	O.D.*Ht. (mm)	Pack Qty.	Case Qty.
415010875001	1	9*30	144	1440
415021175001	2	12*35	144	1440
415031480001	4	15*45	144	1440
415202275002	24	23*85	144	576
415302475001	30	25*95	144	576

Snap Cap Vials

- Manufactured from clear N-51A borosilicate glass
- Tooled neck for accurate fit with plastic closure
- with or without plastic closure
- Excellent for pack drug products

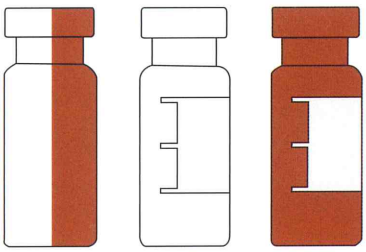
Catalog number	Cap. (ml)	O.D.*Ht. (mm)	Pack Qty.	Case Qty.
405051425001	4	15*45	72	864
405072075001	12	21*50	72	432
405152475001	16	25*52	72	288
404202700009	20	27*55	72	216

2mL Auto Sampler Vials

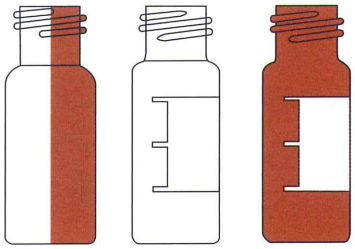
◆ Made of the high quality borosilicate materials,our vials meet or exceed industry specifications and tolerances. These products are available in a variety of standard sizes.Vials with large opening and/or marking spots are also availble.

◆ Vials are made of clear,Type 1 borosilicate,N51A or 33 expansion glass or amber,Type 1 borosilicate,51 expansion glass for light sensitive.

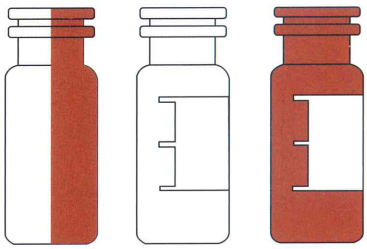
◆ Vials are packed 100pcs per tray,5000pcs per case.We also could provide different packages according to customer requirement.



12x32mm Crimp Vials



12x32mm Screw Vials



12x32mm Snap Vials

Catalog No.	Cap. (ml)	O.D.x Ht. (mm)	Description	Pack Qty. (Pcs)	Case Qty. (Pcs)
412021160049	2	12 x 32	Crimp,clear/amber	100	5000
412021160050	2	12 x 32	Crimp with marking spot,grad.,clear/amber	100	5000
412021160051	2	12 x 32	Crimp large opening,clear/amber	100	5000
412021160052	2	12 x 32	Crimp large opening with marking spot,grad.,clear/amber	100	5000
402021160087	2	12 x 32	Screw thread,8-425,clear/amber	100	5000
402021160088	2	12 x 32	Screw thread,8-425 with marking spot,grad.,clear/amber	100	5000
402021160089	2	12 x 32	9mm Screw thread,clear/amber	100	5000
402021160090	2	12 x 32	9mm Screw thread,with marking spot,grad.,clear/amber	100	5000
402021160091	2	12 x 32	Screw thread,10-425,clear/amber	100	5000
402021160092	2	12 x 32	Screw thread,10-425 with marking spot,grad.,clear/amber	100	5000
412021160053	2	12 x 32	Snap,clear/amber	100	5000
412021160054	2	12 x 32	Snap with marking spot,grad.,clear/amber	100	5000

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