



SINA
VIAL SSD group



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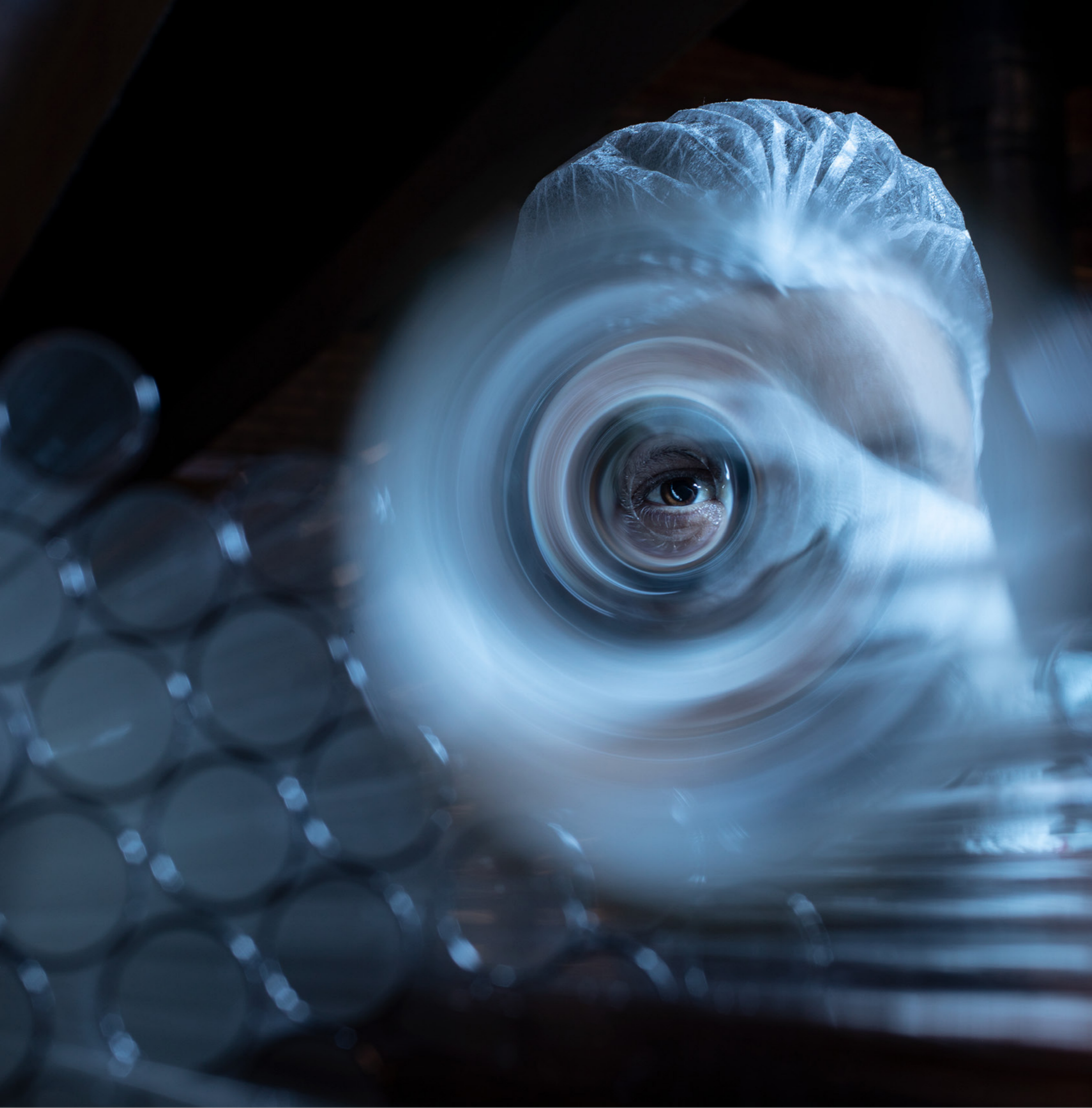
SINA SHISHEH DARMAN (SSD group)

Have been working for more than 80 years in various fields of glass industry, including industrial glassware and laboratory glassware, SSD group is so proud to present its products in the field of pharmaceutical glass to the pharmaceutical industry. The activity of this group in the field of pharmaceutical glass started with manufacturing pharmaceutical vials. It is known as "Sina Vial" brand in the market. Within a very short time of working in this field, SSD group has succeeded in producing high quality products and offering them to the country's pharmaceutical industry.

SSD group has an operation license from the Ministry of Industry and an establishment license from the Ministry of Health, and the entire production process of this group is produced in accordance with GMP standards, under the supervision of technical and experienced experts.

Besides, the raw material that is used is Borosilicate type I, which has been approved by all global pharmaceutical units and is in accordance with the developed standards in this field. Currently, the production of vials in this company has met some part of the needs of the domestic market and it has also been approved by the experts of domestic pharmaceutical companies.

In near future, the production Glass Cartridge, all the machines of which are designed and manufactured by this company, will be presented to the country's pharmaceutical industry.





Quality

HAS ITS ADDRESS

Primary quality standards

The integrated management systems (IMS) is applied according to international standards ISO 9001 ,and 14001. All Sina Vial products are manufactured based on the international Pharmacopoeia (such as: EP, USP, and JP) ,and also the DIN ISO requirements for glass primary packaging material.

Pharmaceutical quality control

- Production in dGMP environment
- 100% camera inspection of all key dimensional characteristics
- Cosmetic-visual inspection to recognize cracks, scratches, particles, airlines, and bubbles
- Automatic rejection of defective pieces



Quality management according to:

- ISO 9001
- ISO 14001

Products fulfill the requirements in accordance with:

- EP, UPS, JP
- DIN ISO requirements for glass primary packaging material



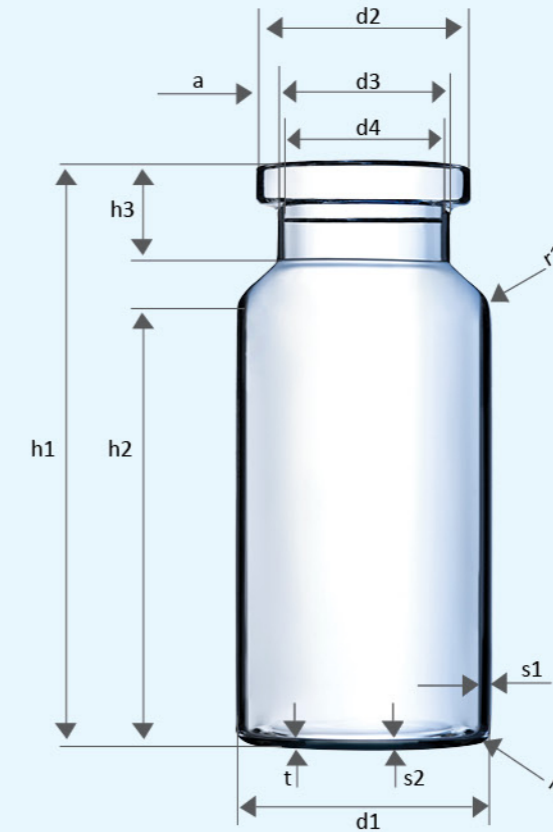
Pharmaceutical **Glass Vials**

APPROPRIATE VIALS
FOR EVERY SINGLE
PURPOSE



Injectable Crimp Neck Vials

- Sizes**
 Ranging from 1.8 ml to 30 ml
 (Additional format upon request)
- Material**
 Borosilicate (Type I) Glass
- Colors**
 Clear
 Amber
- Standards**
 ISO 8362-1
 USP



Size designation of injection vial	Overflow capacity ml	a mm	d1 mm	d2 mm	d3 mm	d4 mm	h1 mm	h2 mm	h3 mm	r1 mm	r2 mm	s1 mm	s2 mm	t mm	Mass g
2R	4	± 0.5	1	16 ± 0.15	13	10.5	7	35	22	8	2.5	1.5	0.6	0.7	4.4
4R	6		45	32	± 0.5	8.5 ± 0.5	3.5	2	1	± 0.04	0.7	5.7			
6R	10	22	± 0.2	16.5		12.6	40					26	4	0.7	7.9
8R	11.5	45			31		45	30	9	4	8.7				
10R	13.5	± 1	24	20	12.6	45	45	9	4	9.5					
15R	19		60			45	45	9	4	12.0					
20R	26	± 1.5	30	± 0.25	17.5	55	35	± 0.75	5.5	2.5	1.2	± 0.05	1	16.2	
25R	32.5					65	45							10	18.9
30R	37.5	75	55	75	55	21.9									

Size designation of injection vial	Overflow capacity ml	a mm	d1 mm	d2 mm	d3 mm	d4 mm	h1 mm	h2 mm	h3 mm	r1 mm	r2 mm	s1 mm	s2 mm	t mm	Mass g		
																Tol	Tol
Insulin	13.5	± 0.5	1	22	13	10.5	7.25	56.5	40	8.30	2.5	1.5	0.7	11.5	10.5		
11R	15.5	± 1	1.2	24	± 0.2	20	16.5	12.6	52	37	± 0.5	4.0			2.0	1	± 0.04
12R	16.5								53.5	39.5	4.5	11.5					
23R	28	± 1.50	1.5	30	± 0.50	17.5	60	± 0.7	42.3	10	± 0.75	5.5	2.5	1.2	± 0.05	1	18.3

These sizes are local consumer standards.

Non-injectables

Screw Neck Vials

- **Sizes**
Ranging from 5 ml to 30 ml
(Additional format upon request)
- **Material**
Borosilicate (Type I) Glass
- **Colors**
Clear
Amber



Flip Cap Vials

- **Sizes**
Ranging from 2 ml to 75 ml
(Additional format upon request)
- **Material**
Borosilicate (Type I) Glass
- **Colors**
Clear
Amber





Customized products

Options for customization:

- Customized sizes from 1.8 ml to 75 ml
- Optimized dimensions and reduced tolerance
- Varied bottom and wall thickness available to meet different needs
- Specific inspections of key dimensional characteristics
- Individual raw materials upon request
- Printing formats per request

Manufacturing Process

WE KNOW GLASS

SSD group vials meet a wide range of requirements depending on precision instruments and processes. It can satisfy the needs of the most demanding pharmaceutical company requirements on resistance, cosmetics and dimensions through continuous monitoring of all critical parameters that influence the forming process.

The steps of producing glass vials from glass tubes are as below:



Packaging & Labeling

Vials, which come in different sizes, are delivered in special trays of different sizes. Standard pallets (1000*1200mm) contain a number of trays. They will be delivered to customers after stretch wrapping and strapping.

Compact shrink wrapping and packaging are used for pharmaceutical vials that are hold firmly together and ready to be transported. Corner protection is affixed to the pallet.

Vial format	Vials per tray	Vials per pallet
2R	599	100,632
4R		
6R	308	61,600
8R		51,744
10R	266	44,688
11R		
12R		
15R		
20R	165	27,720
23R		
25R		
30R		



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