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PHARMACEUTICAL GLASS PACKAGING SOLUTIONS

RANGE OVERVIEW

A worker in a cleanroom, wearing a white hairnet, glasses, a white beard net, and white gloves, is inspecting a tray of dark brown vials. The worker is holding a small vial in their right hand. The background is a blurred cleanroom environment with blue and white machinery.

OUR MISSION

Improve and protect patient's health
by providing high quality, reliable,
and innovative primary glass packaging
to our pharmaceutical customers.



A UNIQUE KNOW-HOW

SGD Pharma has unique know-how and offers innovative premium quality primary packaging compliant with international Pharmacopoeias.

From design to manufacturing, our teams will support you in the development and implementation of your project.

SGD Pharma's corporate quality policy is applied in all of its manufacturing facilities and is compliant with pharmaceutical Good Manufacturing Practices (GMPs). Recognizing that the patient is the end user of its products, SGD Pharma implements the strictest quality standards. All of our manufacturing sites are fully dedicated to pharmacy and are according to ISO 15378 standards. Each of our vials is inspected and packed in an ISO 8 (class 100.000) clean room.

In the pharmaceutical industry more than anywhere else, security of the supply chain is critical. We protect our clients and their patients by making every effort to ensure a continuous supply of glass. SGD Pharma provides back-up solutions from its different manufacturing sites for all types of glass.

Our global footprint and vast distribution network allow us to serve you wherever you are in the world.





A referenced material for pharmaceuticals

As a material with a thousand-year history, and excellent barrier and transparency properties, glass is the standard material for pharmaceutical products.

As primary packaging for drugs, glass, more than any other material, adapts to the requirements of the pharmaceutical industry: washing, depyrogenation and sterilization.

Glass provides optimal protection for sensitive molecules; its barrier properties against oxygen and moisture provide enhanced stability for medications.

SGD PHARMA PRODUCES ALL TYPES OF MOLDED GLASS VIALS, TUBULAR GLASS VIALS AND AMPOULES.

	TYPE III MOLDED	TYPE II MOLDED	TYPE I MOLDED	TYPE I TUBULAR
Clear and amber glass	Soda-lime glass	Soda-lime with an improved hydrolytic surface resistance	Neutral borosilicate glass with high hydrolytic resistance	
Our uniqueness	Our furnaces are fully dedicated to pharmaceutical glass No recycled glass is used	We are experts in inner surface treatments that can be achieved in 3 of our facilities dedicated to pharmaceutical glass	Our know-how in Type I molded glass allows us to respond to some of the market's most complex requirements Two of our sites, at the forefront of the technology, are dedicated to the production of Type I glass	5.0 expansion family of tubular glass provided by internationally renowned manufacturers





QUALITY TO MEET PHARMACEUTICAL REQUIREMENTS

One quality management system worldwide

All of our manufacturing sites are certified to ISO 15378 standards. Our staff are fully committed to consistently adhering to GMPs and applicable regulations to ensure we deliver the level of quality demanded by the Pharmaceutical industry. SGD Pharma collaborates with its clients to design quality specifications that meet their needs.

Quality control throughout the manufacturing process

SGD Pharma controls and manages each step of the entire production process through the following controls and tests:

- Fully automated inspection systems from the initial composition of raw material to the final packing
- 100% on-line inspection to verify the vials to dimensional, functional and visual specifications
- Physicochemical testing according to pharmacopoeias (USP, EP, CFDA, JP)
- Batch release based on complete manufacturing records and QC results

Production and control records are maintained in a computerized system that ensures full traceability.

Regulatory support

Primary packaging, in particular for parenteral drugs, needs to comply with the strictest standards and regulations, as it contributes to the stability and quality of the drug products. SGD Pharma provides Pharma and Biotech companies with all the necessary documentation to simplify the registration and approval processes of their products with the Regulatory agencies.



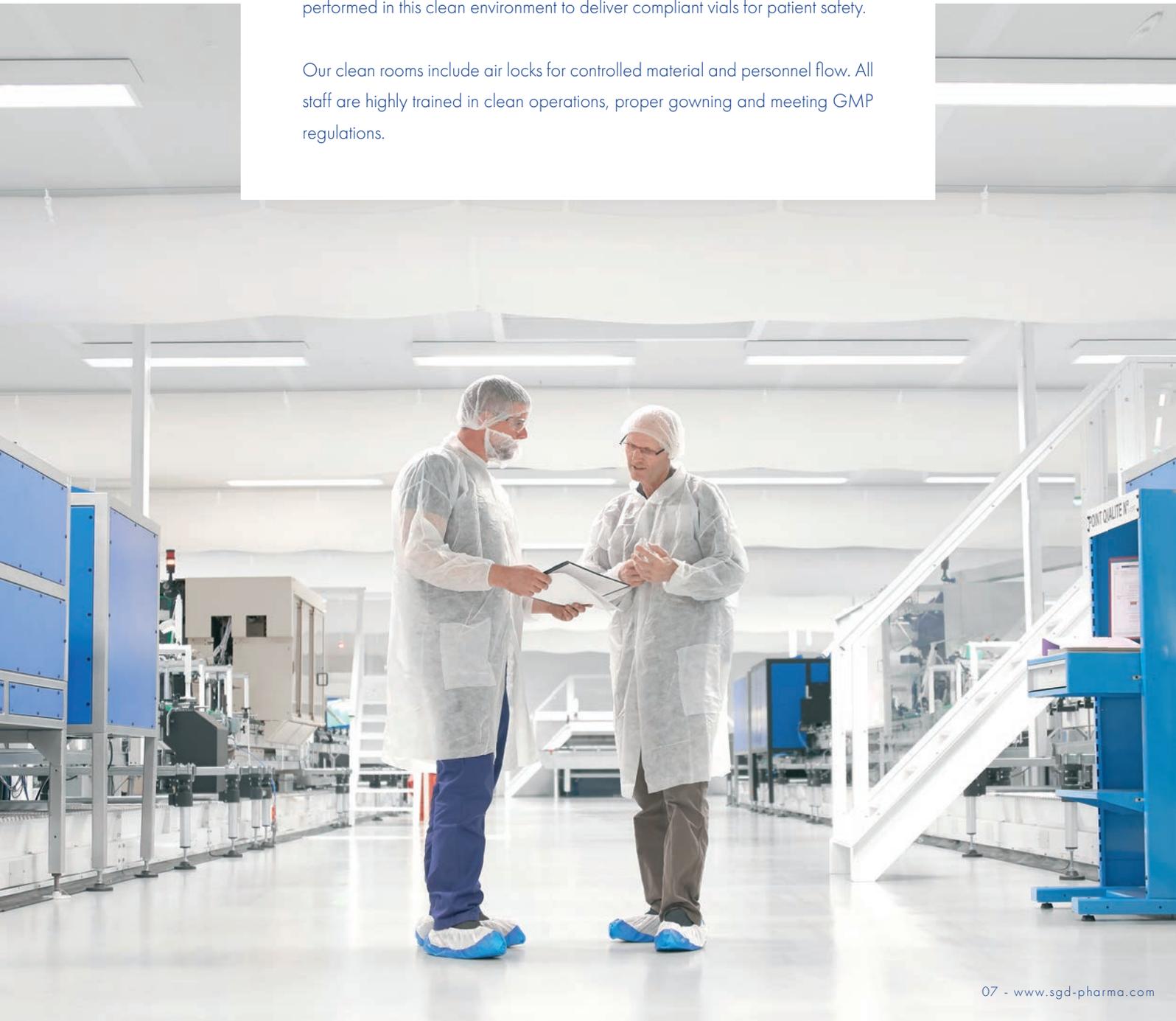


CLEANLINESS

Pharma Grade Glass

All SGD Pharma facilities are equipped with ISO 8 clean rooms. Particulate levels are strictly and regularly monitored. On-line inspection and packing are performed in this clean environment to deliver compliant vials for patient safety.

Our clean rooms include air locks for controlled material and personnel flow. All staff are highly trained in clean operations, proper gowning and meeting GMP regulations.



GLOBAL FOOTPRINT

USE THE KNOWLEDGE AND STRENGTH OF OUR
WORLDWIDE NETWORK OF 90 PARTNERS AND
DISTRIBUTORS TO YOUR ADVANTAGE GLOBALLY.



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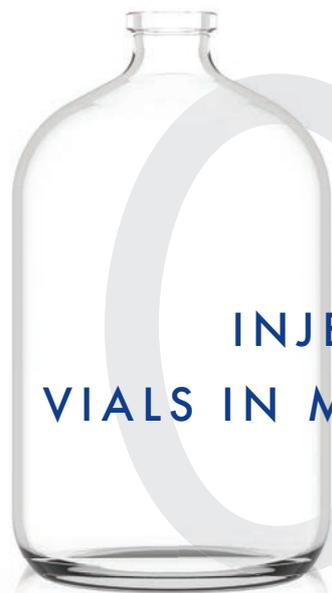
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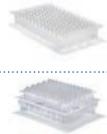
BRAZIL

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INJECTABLE VIALS IN MOLDED GLASS

INJECTABLE VIALS IN MOLDED GLASS		Neck finish	Nominal capacity (ml)	Clear glass	Amber glass	
ISO 20	Type I	ISO 20	200, 250	<input type="radio"/>	<input type="radio"/>	
	Type II & III		6	<input type="radio"/>		
ISO 20 according to ISO-8362	Type I	ISO 20	5, 7, 8, 10, 15, 20, 25, 30, 50, 100	<input type="radio"/>	<input type="radio"/>	
	Type II		7, 8, 10, 15, 20, 25, 30, 50, 100	<input type="radio"/>	<input type="radio"/>	
	Type III		7, 8, 10, 15, 20, 25, 30, 50, 100	<input type="radio"/>	<input type="radio"/>	
Clareo	Type II	ISO 20	15, 20, 30, 50, 100	<input type="radio"/>		
	Type III		15, 20, 30, 50, 100	<input type="radio"/>		
Easylyo	Type I		5, 10, 20, 25, 30, 50, 100	<input type="radio"/>	<input type="radio"/>	
Indian market	National	Type I	20 mm	5, 7.5, 10, 12, 15, 20	<input type="radio"/>	<input type="radio"/>
	Victory			15, 30, 50, 100	<input type="radio"/>	<input type="radio"/>
US market	Type I	GPI 20 mm	20, 30, 50, 100	<input type="radio"/>	<input type="radio"/>	
	Type II		50	<input type="radio"/>		

STERINITY HIGH QUALITY READY-TO-USE MOLDED GLASS VIALS		Neck finish	Nominal capacity (ml)	Type of secondary packaging	Clear glass	Amber glass
Tray – Easylyo			20, 25, 50		<input type="radio"/>	<input type="radio"/>
Tray – ISO vials		Type I	50, 100		<input type="radio"/>	<input type="radio"/>
Nest & Tub – Easylyo			20		<input type="radio"/>	<input type="radio"/>



INJECTABLE VIALS IN TUBULAR GLASS

INJECTABLE VIALS IN TUBULAR GLASS	Neck finish	References	Clear glass	Amber glass
ISO 20	13 mm	2R, 4R	○	○
according to ISO-8362	Type I 20 mm	6R, 8R, 10R, 15R, 20R, 25R, 30R, 50R, 100R	○	○

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AMPOULES

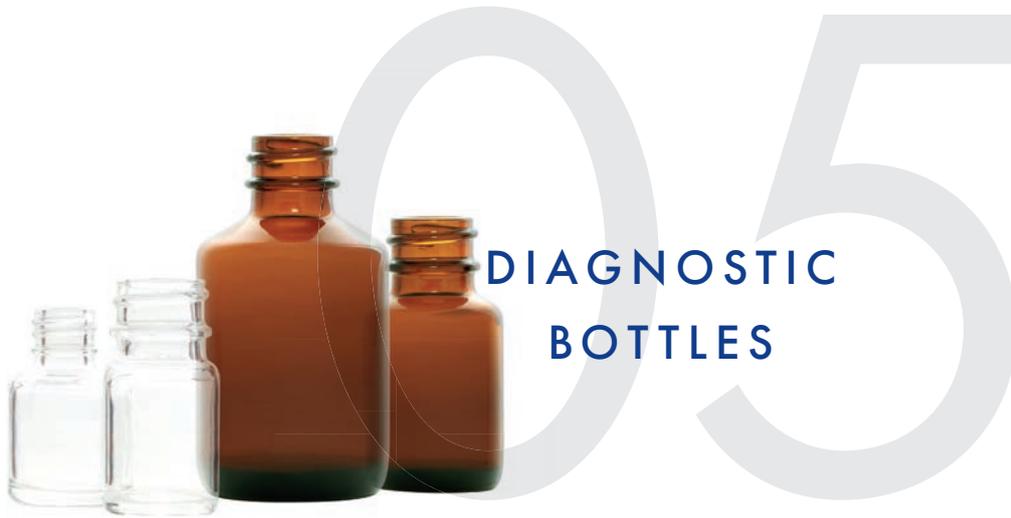


Reference	Volume to centre of constriction (ml)	Height of constriction (mm)	Height of body (mm)	Body diameter Ø (mm)	Clear glass	Amber glass
1 ml	1.5	25.5	21.0	10.75	○	○
2 ml	2.3	37.5	33.0	10.75	○	○
3 ml	3.5	39.5	35.0	12.75	○	○
5 ml	5.5	46.5	41.0	14.75	○	○
10 ml	11.5	62.0	55.0	17.75	○	○
20 ml	23.5	76.0	65.0	22.5	○	○
25 ml	28.5	91.0	80.0	22.5	○	○
30 ml	33.5	106.0	95.0	22.5	○	○



INFUSION BOTTLES		Neck finish	Nominal capacity (ml)	Clear glass	Amber glass
Infusion bottles	Type I	Crimp finish	50, 70, 150, 200, 250, 300, 500, 1000	<input type="radio"/>	<input type="radio"/>
	Type II	32 mm	60, 70, 150, 200, 250, 400	<input type="radio"/>	<input type="radio"/>
Infusion bottles according to ISO-8536	Type I	Crimp finish	50, 100, 250, 500	<input type="radio"/>	<input type="radio"/>
	Type II	32 mm	50, 100, 125, 250, 500, 1000	<input type="radio"/>	<input type="radio"/>
	Type III	ISO-8536	50, 100	<input type="radio"/>	
Lightweight	Type II	Crimp finish 32 mm	250, 300, 500	<input type="radio"/>	<input type="radio"/>
Screw neck	Type I	40 mm	125, 250, 500, 1000, 2000	<input type="radio"/>	
Scandinavian market	Type I	Screw neck CSB 35.7	100, 300, 500, 1000	<input type="radio"/>	
Italian market	Type II	Crimp finish 29 mm	100, 250, 500	<input type="radio"/>	
Indian market - Saline	Type I	32 mm	50, 100	<input type="radio"/>	
US market	Type I		50, 100, 200	<input type="radio"/>	
	Type II	Crimp Finish 28 mm	250, 400	<input type="radio"/>	
	Type III		100	<input type="radio"/>	
US market Preferred option for the veterinary market	Type I		250	<input type="radio"/>	<input type="radio"/>
	Type II	Crimp Finish GPI 30 mm	250, 500	<input type="radio"/>	<input type="radio"/>
	Type III		250, 500	<input type="radio"/>	<input type="radio"/>
Chinese market		ISO 32	50, 100, 200, 250, 300, 500, 1000	<input type="radio"/>	
		28 A	100, 200	<input type="radio"/>	
	Type II	26 B	250	<input type="radio"/>	
		28 B	250	<input type="radio"/>	

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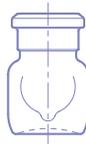


DIAGNOSTIC		Neck finish	Nominal capacity (ml)	Clear glass	Amber glass
US market	Type I	GP I 20 / 40 0	3/5, 6/8, 10/15, 30/40, 50/70	○	○



NASAL		Neck finish	Nominal capacity (ml)	Clear glass	Amber glass
Nasal PH 18 & FEA 20		PH 18	25	<input type="radio"/>	<input type="radio"/>
		FEA 20	15, 25	<input type="radio"/>	<input type="radio"/>
U-Save bottles	Type I	GPI 18 / 415	1, 3, 5	<input type="radio"/>	<input type="radio"/>
		PH 18	1, 2.5	<input type="radio"/>	<input type="radio"/>
		S 20	3.5	<input type="radio"/>	<input type="radio"/>
U-Save bottles US market		FEA 20	6, 10	<input type="radio"/>	<input type="radio"/>
		ISO 20	3.5	<input type="radio"/>	<input type="radio"/>
		Crimp finish 20 mm	3.5, 7.5, 10	<input type="radio"/>	<input type="radio"/>

U-Save bottles



U-SHAPED BOTTLE
MAXIMUM RECOVERY RATE
OF PRODUCT

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SYRUP BOTTLES		Neck finish	Nominal capacity (ml)	Clear glass	Amber glass
Alpha		PP 25	30, 45, 60	<input type="radio"/>	<input type="radio"/>
		PP 28	30, 45, 60, 75, 90, 100, 125, 150, 180, 200, 225, 250, 300, 500, 1000	<input type="radio"/>	<input type="radio"/>
Round		PP 28	15, 30, 60, 100, 200, 250	<input type="radio"/>	<input type="radio"/>
		PH 40	120	<input type="radio"/>	
Specific	Type III	PP 22	20		<input type="radio"/>
		PP 25	30, 100, 125	<input type="radio"/>	<input type="radio"/>
		PP 28	100, 125		<input type="radio"/>
Pluma - Brazilian market		PP 24	30, 60, 80, 100, 120, 150		<input type="radio"/>
		PP 28	200		<input type="radio"/>

BOTTLES FOR ANTIBIOTICS WITH FILLING MARK		Neck finish	Nominal capacity (ml)	Clear glass	Amber glass
Bottles for antibiotics with filling mark	Type III	PP 28	15, 30, 60, 100, 120, 200	<input type="radio"/>	<input type="radio"/>
		PP 36	60	<input type="radio"/>	

SINGLE DOSE BOTTLE		Neck finish	Nominal capacity (ml)	Clear glass	Amber glass
Single dose bottle	Type III	PP 28	15	<input type="radio"/>	<input type="radio"/>

DROPPER BOTTLES		Neck finish	Nominal capacity (ml)	Clear glass	Amber glass
Dropper bottles	Type III	DIN 18	5, 10, 15, 20, 30, 50, 100	○	○
		PP 18	20	○	○
		PP 22	15		○
		PP 25	30, 45, 60	○	○
		PH 13	2.5	○	
		PH 15	4	○	○
		PH 18	10, 15, 20	○	○
		PH 20	30	○	○



TABLET BOTTLES		Neck finish	Nominal capacity (ml)	Clear glass	Amber glass
High shape	Type III	SC 22	9, 12	○	○
		SC 25	17	○	○
			25, 31, 36, 67	○	○
Low shape		SC 30	18, 45	○	○
ISO tamperproof			40, 80	○	○

AEROSOL BOTTLES		Neck finish	Nominal capacity (ml)	Clear glass	Amber glass
Dome aerosols	Type III	FEA 20	15, 24, 30, 40, 50, 80	○	
Tube aerosols			60, 75, 150	○	
			GCM1 24/400	37, 66	○

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DOWNLOAD OUR NEW FREE APP

Pharma industry identification & cross-reference guide to visual non-conformities found in molded glass bottles & vials.



Cross-Referenced to





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