



The Delta vials, developed with BormioAdvance technology

On the strength of its immense experience in manufacturing technology, Bormio Rocco has succeeded in creating an innovative range of moulded glass vials for pharmaceutical injectables.

Features

- wide range of sizes;
- made of type I Borosilicate glass;
- 20 mm DIN neck finish optimized to reduce stopper pop-out, guaranteeing a perfect seal and adherence with the cap;
- stippling effect on the base carried out on request.

Designed to withstand the extreme conditions undergone by containers during freeze-drying processes, these vials make it possible to extend the use of moulded glass to the many pharmaceutical applications which up to now had no alternative to the use of tubular glass.



The BormioAdvance revolution begins

Bormio Rocco's Pharmaceutical Glass B.U. has developed a highly sophisticated technology that makes it possible to make moulded glass vials with optimum glass distribution and a weight reduction of roughly 30% compared to equivalent traditional vials.

Thanks to **BormioAdvance** the company has launched an innovative range of glass vials that combines advantages in cost savings and performance with much improved practical convenience compared to existing products in the field of freeze-drying and sterilization in general.



Delta vials today ...but new sizes are on the way!

	Reference	Nominal Capacity (ml)	Brimful Capacity (ml)	Weight (g)	Neck Finish	Height (mm)	Diameter (mm)	Glass Type
	HP 1116/10	10,0	12,0	14,3	DIN 20	45,0	24,0	Type I
	HP 1117/20	20,0	24,7	20,0	DIN 20	55,0	30,0	Type I
	HP 1121/20	20,0	24,0	22,5	DIN 20	57,5	29,5	Type I
	HP 637/30	30,0	32,5	29,5	DIN 20	65,5	32,0	Type I
	HP 1120/48	45,0	48,0	37,0	DIN 20	73,0	36,3	Type I
	HP 1091/68	50,0	68,0	49,0	ISO 28	88,0	38,0	Type I

Customizable sizes.

Premium safety!

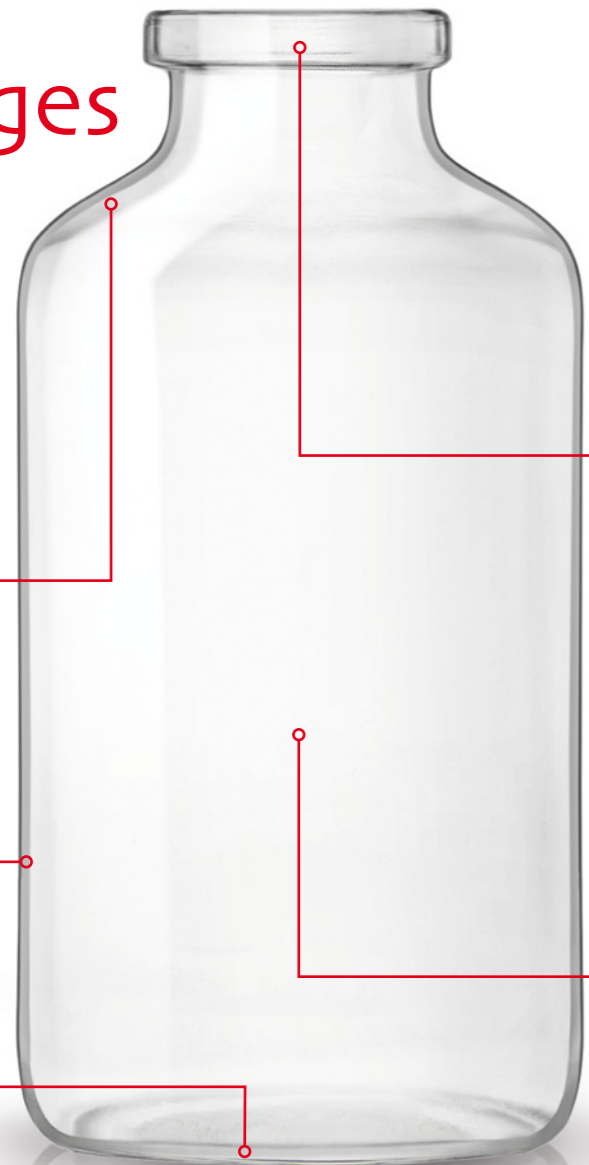
Moulded glass is recommended by US-FDA to prevent formation of lamellae.

The exclusive features of Delta vials increase safety for patients and production lines performances.



The Advantages

The Delta vials offer superior performance from various points of view:



regularity and precision in the vial's neck finish

greater flexibility of shape and finish geometry

cost reduction

resistance to mechanical impact and axial load

superior chemical durability

vial stability for higher performances of filling lines



Bormioli Rocco is an ideal partner for the Pharmaceutical Industry. Our philosophy centres on total reliability and uncompromising focus on the client's needs.

Bormioli Rocco

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Tubular or moulded?

Delta!

Don't **bet**,
just **choose**.