

# GLASS VIALS

## FOR PHARMACEUTICAL APPLICATIONS

NIPRO

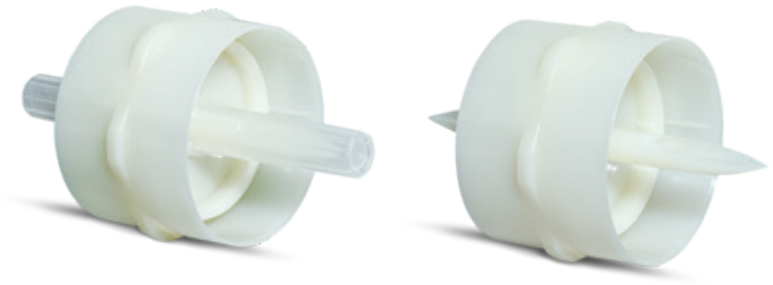


# Your Strategic Partner

FOR VIAL DEVELOPMENT AND MANUFACTURE

## Vertical Integrated Partner

The production of our premium glass tubing takes place in multiple plants worldwide. Having this step in-house ensures a stable supply of raw materials with a consistently high quality for our vial converting process.



**In addition, we manufacture medical devices for easy and safe drug reconstitution and administration (parenteral, nasal).**

You will source complete systems from a single manufacturer that controls all quality aspects from the sand to your final product.

## Extensive Experience

Nipro PharmaPackaging is a leading manufacturer of high-quality glass vials for the global pharmaceutical industry. Our extensive experience enables us to develop and manufacture glass vials precisely meeting the quality requirements of your drug product. You will receive skilled and efficient support throughout the entire drug development process.

# Global Manufacturing Network



Your vial is produced within our global manufacturing network, in a plant geographically best suited to your needs. We operate multiple plants in North America, Europe, and Asia facilitating global supply strategies. Independent of the location, you will receive the same high-quality products and services.

# Commitment to Quality

Where medication and ultimately the well-being of patients are concerned, quality is fundamental. Strict quality systems govern all our processes (ISO 15378, ISO 9001, ISO 45001, ISO 14001, and ISO 50001). An extensive array of dimensional and cosmetic inspections safeguard the production of vials exactly to agreed specifications.






# Excellent Customer Experience

Products and technologies constantly increase in complexity. Our comprehensive and competent support organisation, comprising regulatory assistance, technical support, and laboratory services, will address all your inquiries quickly and efficiently.



# Glass Vials

FINE-TUNED TO DRUG QUALITY AND SERVICE REQUIREMENTS

eNable.

FOR DRUGS WITH PREVAILING QUALITY REQUIREMENTS

## Fast and reliable filling-line performance

- Control of critical cosmetic parameters
- Inspection of key dimensional aspects
- 100% in-line camera inspection
- Statistical process control

## Compliant with prevailing quality standards

- Cosmetic & dimensional AQLs according to main quality standards
- ISO 15378 (incl. 9001) certified
- Conforms to ISO 8362-1
- Compliant with prevailing Pharmacopoeia (EP, USP, JP)
- Production in controlled environments & packaging in ISO-class cleanrooms




eNhance

FOR DRUGS WITH THE HIGHEST QUALITY REQUIREMENTS

## Outstanding drug-container compatibility

- VIALEX™ - Superior surface durability for a significant lower risk of drug-container interaction
- Significantly lower risk of pH shift
- Minimized risk of delamination
- All points in, each vial 100% inspected (thermal scan)

## Optimized filling-line performance

- 100% in-line camera inspection of an extensive range of dimensional and cosmetic attributes
- Reduced glass-to-glass contact leads to increased mechanical durability
- Outstanding cosmetic characteristics minimize the risk of false rejects at final inspection, leading to reduced drug loss

## Meeting the highest regulatory and quality requirements

- Very tight dimensional and cosmetic AQLs reflect exceptional container quality
- Production in controlled environments & packaging in ISO-class cleanrooms
- ISO 15378 (incl. 9001) certified systems
- Conforms to ISO 8362-1
- Compliant with prevailing Pharmacopoeia (EP, USP, JP)
- Regulatory support

# Product Range

Broad portfolio of standard and specialty vials

## Crimp neck

| Volume (ml) | Outer Ø (mm) | Total Height (mm) | Wall Thickness (mm) | Neck Ø (mm) |
|---|---|---|---|---|
| 2R | 16 | 35 | 1 | 13 |
| 4R | | 45 | | |
| 6R | 22 | 40 | | 20 |
| 8R | | 45 | | |
| 10R | 24 | 40 | | |
| 15R | | 60 | | |
| 20R | 30 | 55 | 1.2 | |
| 25R | | 65 | | |
| 30R | | 75 | | |
| 50 | 40 | 73 | 1.5 | |
| 75 | 47 | 75 | 1.7 | 28 |
| 75 | | 75 | 1.5 | 20 |
| 75 | | 75 | 1.95 | 32 |
| 75 | 40 | 100 | 1.5 | 20 |
| 100 | 47 | 95 | | |
| 100 | | 95 | 1.7 | 28 |
| 100 | | 95 | 1.95 | 32 |





## Screw neck

| Volume (ml) | Outer Ø (mm) | Total Height (mm) | Wall Thickness (mm) | Neck Ø (mm) |
|---|---|---|---|---|
| 5 | 18 | 45 | 1.2 | 14 |
| 7.5 | 22 | 40 | | 18 |
| 10 | 24 | 45 | | |
| 15 | | 60 | | |
| 20 | 30 | 55 | | 22 |
| 25 | | 65 | | |
| 30 | | 75 | | |
| 50 | 40 | 73 | 1.5 | 22<br>28<br>32 |
| 60 | | 80 | | |
| 70 | | 90 | | |
| 75 | | 95 | | |
| 75 | 47 | 80 | 1.7 | |
| 80 | | 85 | | |
| 90 | | 90 | | |
| 100 | | 95 | | |
| 125 | | 110 | | 28, 32 |

| Blowback (for crimp neck vials) | Printing | Special |
|---|---|---|
| EU version, US version | Ceramic | Surface treatment: VIALEX™ |



## Unit-dose

| Volume (ml) | Outer Ø (mm) | Total Height (mm) | Wall Thickness (mm) | Neck Ø (mm) |
|---|---|---|---|---|
| 1 | 6.6 | 19.5 | 0.8 | 8.75 |
| 2 | 6.6 | 28 | 0.8 | 8.75 |

## Designed for very low filling-volumes

Unit-dose vials are specifically designed for filling volumes below 1 ml. The very precise dimensions of the unit-dose vials enable accurate filling volumes of high value drugs, with minimal overfill. To distinguish different concentrations, a color dot can be printed on the bottom of the vial.



# Specialty

We offer a broad range of special and customized vials

- High recovery
- V-bottom
- Double chamber
- Pressure resistant types

Nipro PharmaPackaging is specialized in developing and manufacturing advanced pharma packaging products and complete packaging solutions for early development drugs or the enhancement of packaging solutions for existing drugs.

With a worldwide manufacturing footprint of 19 plants, multiple sales offices, and internal lab services, Nipro PharmaPackaging offers an exceptional service platform. Through our personnel, products, and services, Nipro PharmaPackaging enables you to provide a safer and healthier administration to your customers.

Nipro PharmaPackaging is part of Nipro Corporation Japan, established in 1954. As a leading global healthcare company with over 35.000 employees worldwide, Nipro serves the Pharmaceutical, Medical Device, and Pharma Packaging industries.

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