

# Injection Vials

## Made of Glass Tubing

## Rubber Stoppers

## Aluminium Caps

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Glass containers have been the choice for pharmaceutical dosage forms for a long period because of their resistance and impermeability properties regarding solid or liquid contents of different compositions.

PharmaPack offers injection vials and several alternative options of rubber closures for containers for aqueous parenteral preparations, for powders and for freeze-dried products.

We offer different types of aluminium caps, caps made of aluminium-plastics combinations for injection vials including crimping and decapping tools.

The injection vials are made of clear or amber glass with properties meeting the requirements of the pharmacopoeias and ISO-standards. The quality of the inner surface of the finished container is tested and a corresponding certificate is provided with each delivery.

The vials are produced by M Glas AG, - Germany, controlled and packed in a Class 7 or 8 HEPA-filtered environment. For easy transfer to washing and filling lines the vials are packed in shrink-wrapped PP-Well trays.

All vials, rubber closures and caps meet the specifications of ISO 8362 parts 1, 2 and 3- "Injection containers and accessories".



Address: Ingenjörscentrum, SE-192 78 SOLLENTUNA, Sweden  
Telephone: +46 8 444 37 10 • Fax: +46 8 754 48 30  
E-mail: [info@pharmapack.se](mailto:info@pharmapack.se) • Website: [www.pharmapack.se](http://www.pharmapack.se)

## Injection Vials made of Fiolax-clear glass, 1<sup>st</sup> hydrolytic class

### Standard Vials DIN EN ISO 8362-1:2004

Art nr	Description	Size	Overflow capacity	ISO 8362-1	d x h	Wall	Neck finish	No/tray
37-02-0015	Injection vial	2 ml	4 ml	2R	35x16 mm	1,0 mm	13 mm	344
37-02-0044	Injection vial	4 ml	6 ml	4R	45x16 mm	1,0 mm	13 mm	344
37-02-0031	Injection vial	6 ml	10 ml	6R	40x22 mm	1,0 mm	20 mm	186
37-02-0045	Injection vial	8 ml	11,5 ml	8R	45x22 mm	1,0 mm	20 mm	186
37-02-0049	Injection vial	10 ml	13,5 ml	10R	45x24 mm	1,0 mm	20 mm	154
37-02-0083	Injection vial	15 ml	19 ml	15R	60x24 mm	1,0 mm	20 mm	154
37-02-0074	Injection vial	20 ml	26 ml	20R	55x30 mm	1,2 mm	20 mm	88
37-02-0086	Injection vial	25 ml	32,5 ml	25R	65x30 mm	1,2 mm	20 mm	88
37-02-0091	Injection vial	30 ml	37,5 ml	30R	75x30 mm	1,2 mm	20 mm	88

These vials are also available in amber glass.

### Large Volume Injection Vials made of Fiolax clear glass

Art nr	Description	Size	Overflow capacity approximately	ISO 8362-1	d x h	Wall	Neck finish	No/tray
37-02-0410	Injection vial	50 ml	63 ml	N/A	73x40 mm	1,5 mm	20 mm	90
37-02-0399	Injection vial	75 ml	90 ml	N/A	100x40 mm	1,5 mm	20 mm	90
37-02-0401	Injection vial	100 ml	116 ml	N/A	120x40 mm	1,5 mm	20 mm	90
37-02-0450	Injection vial	75 ml	88 ml	N/A	75x47 mm	1,7 mm	20 mm	67
37-02-0383	Injection vial	100 ml	116 ml	N/A	95x47 mm	1,7 mm	20 mm	67
37-02-0405	Injection vial	125 ml	147 ml	N/A	115x47 mm	1,7 mm	20 mm	67

### Seal types for 13 mm and 20 mm neck finish



#### Inner seal (Centre-Hole)

An aluminium shell with the central target area exposed.



#### Tear-Off Seal (Total Tear-Off)

An all-aluminium seal with a tear-out tab that allows the complete removal of the closure prior to or after use.



#### Flip-Off Seal

A seal with a plastic Flip-Off button that must be activated to expose the injection site.



#### Flip-Top Seal

A seal that is similar in function to the Flip-Off seal with a recycling advantage: the aluminium ring does not remain with the plastic button after the button has been activated.



#### Flip Tear-Off Seal

A seal with a plastic button attached to help facilitate the activation and complete removal of the seal from the container.



#### FlipOff-TearOff Seal

A seal combining the features of the Flip-Off seal with the complete removability of the Tear-Off seal.



#### Lined Seal (Combination Seal)

An Inner, Tear-Out, Tear-Off or Flip-Off seal lined with a rubber disc.



#### Tear-Out Tab Seal (Center Tear-Off)

A seal with a bridged tear-out tab protecting the target area that must be removed to expose the injection site.

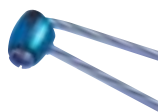


#### Crimper

Tool to crimp aluminium caps. The crimpers are available for 13 mm and 20 mm neck finish and for all seal types.

#### Crimper

As above but sterilizable and suitable for cleanroom.



#### Decrimper

Tool to remove aluminium caps. The decrimpers are available for 13 mm and 20 mm neck finish and for all seal types. Sterilizable and suitable for cleanroom



#### Pliers for removing caps

Tool to open aluminium caps 20 mm neck finish.

### Injection Stoppers

#### 13 mm

1104

Injection stopper 4023/50/grey siliconized  
Elastomer Type: Bromobutyl

1358

Injection stopper 4023/50/grey B2-40 treated  
Elastomer Type: Bromobutyl

#### 20mm

1071

Injection stopper 4023/50/grey siliconized  
Elastomer Type: Bromobutyl

1343

Injection stopper 4023/50/grey B2-40 treated  
Elastomer Type: Bromobutyl

### Injection Stoppers

#### 13 mm

6713

Injection stopper grey 02023400 siliconized  
Elastomer Type: Chlorobutyl

#### 20 mm

3719

Injection stopper grey 02023400 siliconized  
Elastomer Type: Chlorobutyl

### Injection Stoppers

#### 13 mm

1358

Injection stopper FluroTec® coated 4023/50/grey  
B2-40 treated  
Elastomer Type: Bromobutyl

#### 20 mm

1343

Injection stopper FluroTec® coated 4023/50/grey  
B2-40 treated  
Elastomer Type: Bromobutyl

### Freeze Drying Stoppers

#### 13mm

1079

Freeze drying stopper 4023/50/grey siliconized  
Elastomer Type: Bromobutyl

#### 20mm

1319

Freeze drying stopper 4023/50/grey B2-40 treated  
Elastomer Type: Bromobutyl

1018

Freeze drying stopper 4023/50/grey siliconized  
Elastomer Type: Bromobutyl

### Freeze Drying Stoppers

#### 13 mm

11813/GR

Freeze drying stopper grey 02023400 siliconized  
Elastomer Type: Chlorobutyl

#### 20 mm

11419/GR

Freeze drying stopper grey 02023400 siliconized  
Elastomer Type: Chlorobutyl

