

## IM-11-2

Pneumatic Microinjector

### Comfortable pneumatic control for both injecting and holding sides

The IM-11-2 pneumatic microinjector provides precise control of suction or injection of a micro-sample with operability comparable to an oil hydraulic injector. Coarse-fine movement can be controlled by the knob. The amount of pressure change per knob rotation has been drastically improved, thereby enabling finer and more powerful control.

Accessories included	H-9 Injection Holder, Cleaning Rod, CT-4 Tubing, IP-5 Iron Plate, IMO10 O Ring, Silicone Grease, HD1PK01 Silicone Rubber Gasket, Hex Wrench, Fine Control Knob Cap
Movement range	Plunger 40 mm
Dimensions/Weight	W167 – 214 x D55 x H78 mm, 680 g
Tube length	1.2 m



## IM-12

Pneumatic Injector

Available only from Narishige Japan

### Compact model of IM-11-2 without fine movement

The IM-12 pneumatic injector allows suction and injection of a micro-sample with high precision and operability comparable to an oil hydraulic injector. Designed for space saving use, simple layout is possible. The amount of pressure change per knob rotation has been greatly improved, thereby enabling more powerful control.

Accessories included	H-9 Injection Holder, Cleaning Rod, CT-4 Tubing, IP-5 Iron Plate, IMO10 O Ring, Silicone Grease, HD1PK01 Silicone Rubber Gasket, Hex Wrench
Movement range	Plunger 30 mm
Dimensions/Weight	W113 – 143 x D55 x H80 mm, 625 g
Tube length	1.2 m



## IM-9C

Pneumatic injector

### Pneumatic system used for holding a cell in place

The IM-9C pneumatic injector offers smooth control by reducing fluctuations of the knob tension. A specific size of syringe allows pneumatic control of a large volume without oil refill, avoiding maintenance issues such as replenishing the oil or removing air bubbles. This injector is used for holding a cell in place.

Accessories included	IM-H2 Injection Holder Set, IMO1 O Ring, Silicone Grease, HD1PK01 Silicone Rubber Gasket, Cleaning Rod
Movement range	Plunger 53 mm, Full rotation of knob approx. 6 mm
Control capacity	Total volumes 4240 $\mu$ l, Full rotation of knob approx. 480 $\mu$ l
Dimensions/Weight	W136 – 189 x D55 x H74 mm, 640 g
Tube length	1 m



## IM-9B

Microinjector

### Smooth control microinjector

The IM-9B microinjector offers smooth control by reducing fluctuations of the knob tension. Since the drive section is built into the knob, the drive unit becomes compact. Syringes are available in different capacities to utilize at your choice. This injector is highly recommended for injection.

Accessories included	IM-H1 Injection Holder Set, IM02 O Ring, Silicone Grease, HD1PK01 Silicone Rubber Gasket, Hex Wrench, SYR-11 Metal Syringe, Three-way Stop Cock, Cleaning Rod
Movement range	Plunger 53 mm, Full rotation of knob 500 $\mu$ m
Control capacity	Total volume 1060 $\mu$ l, Full rotation of knob approx. 10 $\mu$ l
Dimensions/Weight	W175 - 228 x D85 x H177 mm, 650 g
Tube length	1 m

\*  $\phi$ 7-14 mm commercially available syringes can be attached.  
\* Oil to refill is not included. Refill oil as needed.



## IM-6

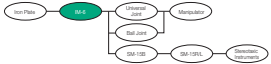
Microinjector

### Popular features promotes ease of use

In response to customer's requests, the IM-6 microinjector marks the return of a former model which went out of production. The large, stable body makes operation extremely reliable, while the specifications allow precise control of injection and aspiration. Recommended for use on the injection side once it has been filled with oil.

Accessories included	IM-H1 Injection Holder Set, Silicone Grease, HD1PK01 Silicone Rubber Gasket, IM-AS-2 Oil Top-up Kit, Cleaning Rod
Movement range	Plunger 40 mm, Full rotation of knob 500 $\mu$ m
Control capacity	Total volume 800 $\mu$ l, Full rotation of knob approx. 10 $\mu$ l
Dimensions/Weight	W200 x D80 x H130 mm, 2 kg
Tube length	1.1 m

\* Oil to refill is not included. Refill oil as needed.  
\* The syringe can be replaced with SYR-1/SYR-15, sold separately. Contact us when using commercially sold syringes.



## IM-AS-2

Oil Top-up Kit

### Oil replenishment or bubble extraction for oil hydraulic injector

Consisting of three-way stop cock and plastic syringe, the IM-AS-2 oil top-up kit provides an easy and convenient way to fill with oil or to remove air bubbles.



Accessory included	Anti-static Label for IP x 4
Dimensions/Weight	W150 x D60 x H5 mm, 345 g

## IP-5

Iron Plate

### Compact iron plate for small injectors

A compact injector can be attached to this steel plate allowing it to stand alone.

