

Reminder of the Safe Use of IM-11 series and IM-12

IM-11 series and IM-12 has won favorable recognition and increased the number of users.

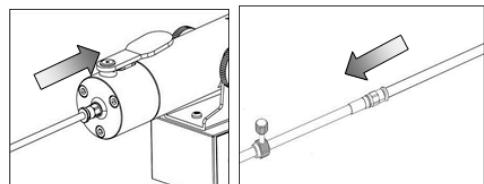
The pneumatic injectors provide great advantages with the users in maintenance and setup while you still have some things to know about relating to the property of pneumatic system.

Before Use

■ Be sure all the connection is tight.

Pneumatic injectors function with the air compressed inside the mechanism.

If the air is leaking, the injector fails to increase the inner pressure in the mechanism. When you find your pneumatic injector not responding to your operation, you should confirm all the connection of components, particularly the fittings that hold the tubing on the main body and on the injection holder must receive the tubing deep inside it, otherwise air leakage can happen.



During Use

■ Never point a pipette tip at a person.

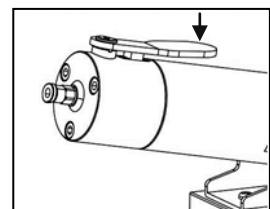
Pneumatic injectors (as well as oil injectors) create significantly high pressure during operation. When a pipette is not fastened tight enough, the pipette can pop out at any time of the operation.

As noticed in the instruction manual, you must be careful that; You NEVER point the injection holder fitted with a pipette at a person. NEVER look or peer into the pointed tip.

After Use

■ You should release the accumulated air (pressure) out of the injector after use.

The injector maintains high pressure in it during operation. It is dangerous to loosen the parts with the remaining pressure. You always release pressure out of the injector after use.



■ You should be so careful that the injector never gets any foreign body and fluid in the part such as the injection holder, the tubing and the main body.

Oil injectors are controlled with oil in it, thus do not get such foreign substance in the structure. On the other hand, pneumatic injectors are controlled with air, thus when the pressure is released in fluid, the injector can suck up the fluid. The fluid remaining in the injection holder and tubing can cause poor response of the injector and may cause clogging. The fluid sucked up in the main body can erode and the stickiness of it can decrease responsiveness of the injector. You can even find the injector out of control. This kind of problem is not oriented from craftsmanship and thus treated as an ordinary repair despite within warranty period. In case you find the injector sucking up fluid into the injection holder and the tubing, please always push the fluid out of it by providing positive pressure.

■ You should remove the pipette from the injection holder after use.

The pipette tip is very thin. A pipette left in fluid can bring in the fluid far inside the injector by capillary action. Also, fluid remaining in a pipette can be brought into the main body through the injection holder and the tubing due to fluctuation of temperature and pressure caused by it. Therefore, we strongly suggest that you should remove a pipette from the injection holder after the work.

If you have any questions or need further information, please contact us.