

H. Ikeuchi & Co., Ltd.  
Nishiwaki Hori Factory, Japan

## Installation Instructions for Metal Spray Nozzles with Three-Piece Structure

Our three-piece structure spray nozzles are shipped with caps loosely hand-screwed. Prior to use, tighten the caps following the steps below.

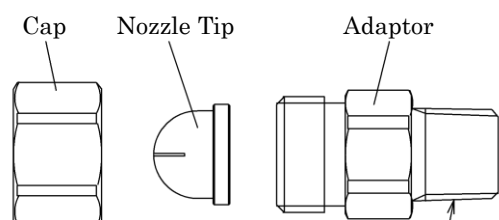


**Wear safety gloves.**

CAUTION Screw threads, edges and corners may be sharp and could cause injury.

### I. Installation Instructions

1. Be sure to flush the pipes before installing the nozzle to remove any dirt and foreign matter.
2. Apply sealant or sealing tape to the pipe threads on the adaptor or the pipe.  
As the cap and adaptor are metal to metal sealed, no sealing tape or sealant is necessary between them.
3. First screw the adaptor into a pipe, then tighten the cap while checking the orientation of the nozzle tip (spray direction).  
See Table 1 for tightening torques.
4. Do not apply any shock or strong force to the nozzle.



Apply sealant or sealing tape to threads.

Table 1. Recommended Tightening Torques

| Thread size | Tightening torque (N·m) |     |
|-------------|-------------------------|-----|
|             | Adaptor                 | Cap |
| 1/4         | 15                      | 10  |
| 3/8         | 20                      | 10  |

### II. Handling Instructions

1. Check the nozzle orifice regularly for clogging.
2. If the nozzle orifice is clogged, remove the nozzle tip and clean out the clog using a soft brush or compressed air from the orifice side.
3. Do not attempt to clean the nozzle tip/orifice with nails, pins, or other hard objects. This will damage the nozzle.

