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## Instruction Manual for Metal AAP and AJP Series Spray Nozzles

Spray nozzles can be easily damaged. Please follow the steps below for installation.

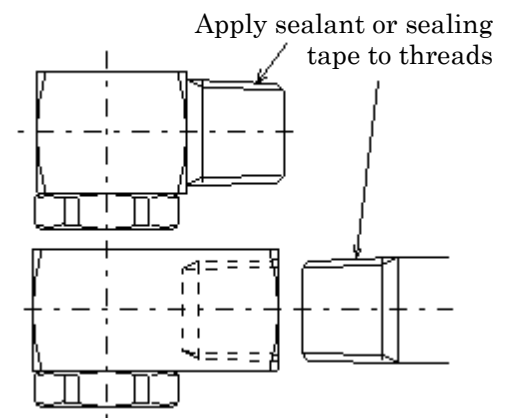


**Wear safety gloves.**

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 nozzle or pipe threads.
3. Pay attention to the spray direction when installing the nozzle.
4. First hand-tighten the nozzle and then use a tool to tighten and position it to adjust the spray direction, using the torques recommended in Table 1.
5. Do not apply any shock or strong force to the nozzle.



### II. Handling Instructions

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

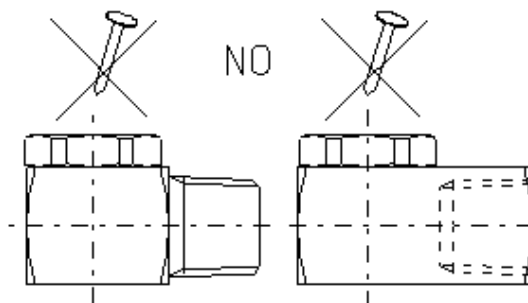


Table 1. Tightening Torques

Thread size	Tightening torque (N·m)
1/8	8
1/4	15
3/8	20
1/2	40
3/4	60
1	100
1*1/4	130
1*1/2	150
2	200

Note: Appearance and dimensions may differ depending on nozzle code.