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## **Instruction Manual for Wide-angle Flat Spray Nozzles, YYP\* and LYYP Series**

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

\*The PVC injection molded YYP series has a separate manual.

### **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. When installing the nozzle, hand-tighten it first, then use a tool to tighten and position it to adjust the spray direction, using the torques recommended in Table 1 for metal nozzles.  
For plastic nozzles, after screwing in the nozzle by hand, use an appropriate tool to lightly tighten and adjust the spray direction.
5. Do not apply any shock or strong force to the nozzle.

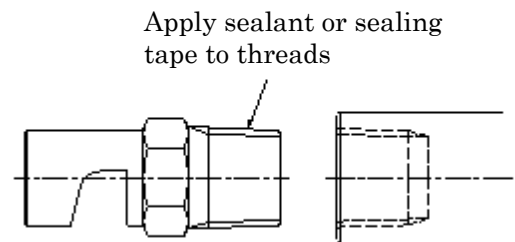
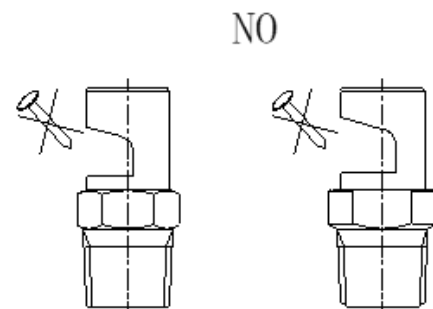


Table 1. Tightening Torques  
(for Metal Nozzles)

Thread size	Tightening torque (N・m)
1/8	8
1/4	15
3/8	20
1/2	40
3/4	60
1	100

### **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.



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