

## Handling Manual on 1/8M TF-F 24-8-010 PPS-IN

This instruction manual describes the correct usage and maintenance of the 1/8M TF-F 24-8-010 PPS-IN.

Before use, be sure to read this manual thoroughly and follow the instructions to allow the best use of this product.

After reading, keep this manual in a safe, handy place.

For purposes of product improvement, part dimensions or design are subject to change without notice.

Please note that in such cases, the contents of this manual may differ from the product.

The nozzle is made of PPS (polyphenylene sulfide).

It is fragile and must be handled carefully.

### 1. PPS

- (1) PPS is highly resistant to most of chemicals except for the ones such as nitric acid and toluene (methylbenzene).
- (2) Temperature of liquid to be sprayed and/or ambient temperature must be below 120°C.
- (3) Never use TF-F 24-8-010 PPS under the conditions where environment temperature is below 0°C because the plastic body may be cracked due to freezing of water inside the nozzle.

### 2. Precautions for nozzle installation

- (1) Flush the inside of pipes for removal of foreign particles before installing the nozzle.
- (2) Apply sealant on the thread of the nozzle.
- (3) Screw in the nozzle by hand. If a wrench/spanner is used, tighten lightly with an appropriate wrench/spanner.  
(Recommended tightening torque: 0.5~0.6N.m).  
Be careful not to screw too tight, which may damage the nozzle.
- (4) Avoid installing the nozzle at the immediate down-stream of a bent pipe or elbow.  
Turbulence may affect the nozzle performance.

### 3. How to maintain nozzles

- (1) Do not damage or scratch the nozzles and never use hard brushes or rigid sharp tools to clean the nozzle orifices.
- (2) The nozzle may yield to mechanical shock or force and must be handled gently.
- (3) The maximum liquid pressure is 0.7MPa.  
(Be careful of water hammer.)
- (4) If you use the fixing hole, do not tighten the fixing bolt too much.  
Put a packing between the bolt and the nozzle.  
Fix the nozzle correctly (not tilted), or the nozzle may be damaged.
- (5) Please store the nozzle in a clean storage room which is free from dust.

