

Instruction Manual

Products: Air Nozzles
TAIFUJet® Series

TF-GUN



Note: The actual appearance and shape of the products may differ from the images shown above.

Thank you for purchasing this product.
Prior to use, read this manual carefully and familiarize yourself with the proper operation of the product for best performance.
H. Ikeuchi & Co., Ltd. takes no responsibility for any accidents and/or injuries resulting from improper handling, installation and/or operation.
After reading, keep this manual handy for quick reference.
Please be aware that due to continuing efforts to improve our products, some details in this manual may differ from the actual product.

H. Ikeuchi & Co., Ltd.

1. Safety Precautions

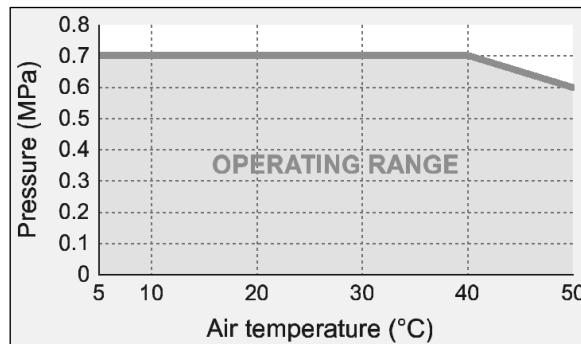
Prior to use, please read these “Safety Precautions” and use the nozzles properly. Improper use may result in injury and damage to the nozzle.



WARNING

The maximum operating pressure for 1/8M TF-F 24-8-010 PPS-IN and 1/4M TF-R 8-010 PP-IN is 0.7 MPa, and the heat resistance is 50°C.

Use 1/4M TF-F 42-16-010 PPS within the operating range shown below. The heat resistance for both the supply air and ambient conditions changes depending on the applied pressure.



Operating pressure and temperature range
for 1/4M TF-F 42-16-010 PPS



WARNING

Avoid a sudden increase in air pressure.



WARNING

Do not use in freezing environments.

2. Before Use (Instructions & Cautions)



CAUTION

Be sure to flush the pipes before installing the nozzle to remove any dirt and foreign matter.



CAUTION

Apply sealant or sealing tape to the nozzle threads.



CAUTION

When re-assembling, screw in the nozzle by hand, making sure it is screwed in correctly. Then, use a torque wrench or appropriate tool on the wrench flats of the nozzle to finish tightening it with the recommended torque specified in Table 1.

Do not apply excessive force or use any section other than the wrench flats to tighten, to avoid causing damage.

Table 1. Recommended tightening torque

Nozzle Thread Size	Tightening Torque (N·m)
1/8M TF-F 24-8-010 PPS-IN	0.5–0.6
1/4M TF-F 42-16-010 PPS	3.0–3.5
1/4M TF-R 8-010 PP-IN	2.0



CAUTION

Do not damage or scratch the nozzle.

Do not poke the nozzle orifice with nails, metal pins or other hard objects.



CAUTION

Do not apply any strong force, shock or vibration to the nozzle.

Unlike metal nozzles, resin nozzles are more fragile.



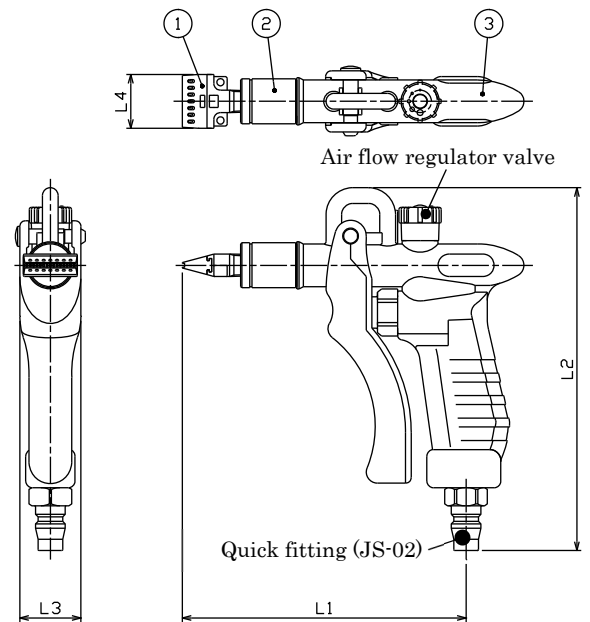
CAUTION

Store the nozzle in a clean, dust-free place.

3. Structure, Material, Dimension, and Weight

(1) Components and Materials

No.	Component	Material
1	Nozzle (One of the following):	
	1/8M TF-F 24-8-010 PPS-IN	PPS
	1/4M TF-F 42-16-010 PPS	PPS
	1/4M TF-R 8-010 PP-IN	PP
2	Socket	POM
3	Air duster gun	—



Note: Appearance and dimensions may vary depending on nozzle codes.

(2) Dimensions and Weight

Description	Outer dimensions (mm)				Weight (g)
	L1	L2	L3	L4	
1/8M TF-F 24-8-010 PPS-IN + Air duster TD-30H	127	161	27.2	24	97
1/4M TF-F 42-16-010 PPS + Air duster TD-30H	184	161	27.2	42	121
1/4M TF-R 8-010 PP-IN + Air duster TD-30H	121	161	27.2	14	94

4. Operation

Quick fitting (JS-02) is included for the air supply connection.

Adjust the air volume using the air flow regulator valve (adjustable in 5 levels).

5. Disassembly

Disassemble the nozzle in a clean, dust-free environment. Always clean the nozzle surface before disassembly to prevent any dust and dirt from entering the nozzle.

Be careful not to lose any parts.

Procedure	Diagram	Caution
Remove the nozzle (part #1) from the socket (#2).		After disassembly, purge the inside of the nozzle with compressed air.

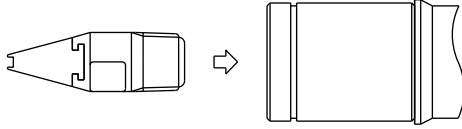
Note: Appearance and dimensions may vary depending on nozzle codes.

4. Maintenance

Impurities are most likely to adhere to the orifice of the nozzle tip. Pay special attention to check the condition of this part.

Carefully remove any dust and dirt with compressed air or a soft brush. Clean each part thoroughly from foreign particles to maintain performance.

5. Reassembly

Procedure	Diagram	Caution
Screw the nozzle (#1) into the socket (#2).		<p>Refer to Table 1 on page 2 for the tightening torque.</p> <p>Before assembling, apply sealant or sealing tape to the nozzle threads.</p>

Note: Appearance and dimensions may vary depending on nozzle codes.

8. Troubleshooting

If there is a problem, please check the following items first. If the problem persists, please replace the nozzle.

Problem	Possible reason	Solution
No air blowing, or irregular blow pattern.	Air pressure is too low.	Check the pressure in the pipe and apply the proper pressure.
	Nozzle is clogged.	Clean with ultrasonic cleaner and air blower.
Air leakage	Sealant or sealing tape is damaged or worn.	Replace or change the sealant or sealing tape.
	Nozzles are not screwed in tight enough.	Tighten the nozzles properly (see page 2).

9. Warranty

There is a one year warranty from the date of our shipment.

Seller shall be responsible for any damage due to design or production and will replace the item free of charge.

Neither this warrant nor any implied warranty applies to damage or harm caused by any or all of the following: 1. Damage due to misapplication and/or misuse, 2. Improper repair and/or modification, 3. Natural disasters, 4. Normal wear-and-tear of consumable parts including clogged nozzles.