

Instruction Manual**TF-BPF (PPS + HTPVC)****TAIFUJet® Series**

Note: Configurations differ depending on nozzle codes.

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.



“The Fog Engineers”

H. IKEUCHI & CO., LTD.

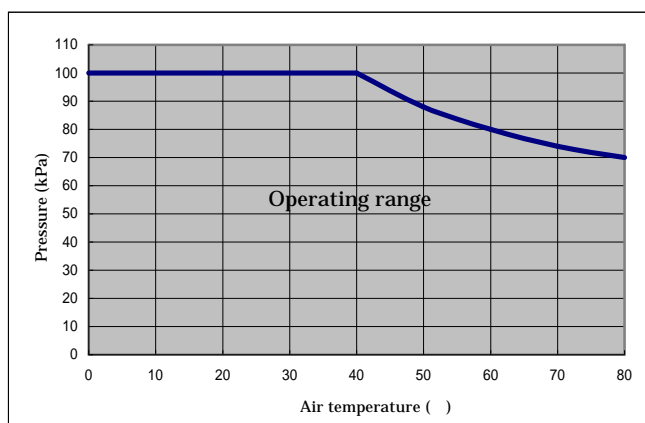
1. Safety Precautions

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

Use the nozzle within the operating pressure range shown below. Heat resistance varies depending on the pressure applied.



Maximum pressures at various temperatures



WARNING

Do not use the nozzle beyond the operating temperature range of 5–80 °C.



WARNING

Do not use the nozzle in freezing temperatures.



WARNING

Avoid a sudden increase in air pressure.



WARNING

When using any mounting plates, secure them to the mounting surface firmly and completely. Otherwise the mounting plates may come off due to the blowing pressure, resulting in injury and damage to the nozzle.



WARNING

Do not loosen the cap, adaptor and bolts (M6) holding the nozzle tip, or the nozzle tip will come off and can be damaged.

Note: Since the pipe wall thickness varies depending on the pipe size, the nozzle tip may move about 1 mm depending on the size, this does not mean the product is faulty.

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 sealing tape on the thread (at the end(s) of the pipe) of the nozzle before installation.



CAUTION

Screw in the nozzle by hand.
If a wrench/spanner is used, tighten lightly with an appropriate wrench/spanner. (Recommended tightening torque: 3–3.5 N m)



CAUTION

Avoid installing the nozzle immediately on or after a bend in the pipe or an elbow.
Turbulence may affect the nozzle performance.



CAUTION

Do not damage or scratch the nozzle.
Do not clean the nozzle tip with nails, pins or other hard objects, which may damage the nozzle.



CAUTION

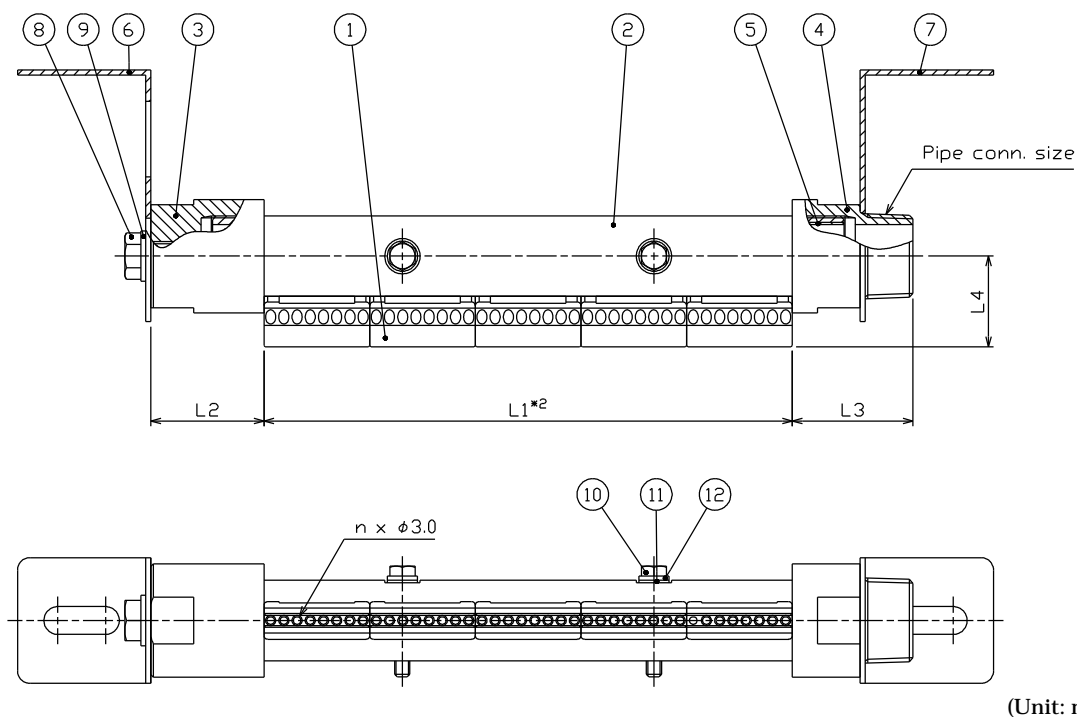
Do not apply any strong force, shock or vibration to the nozzles.
The plastic nozzles may yield to mechanical shock and must be handled with care.



CAUTION

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

3. Structure, Dimension and Weight



Note: Configurations differ depending on nozzle codes.

Table 1. Components and materials

No.	Component	Material*1	Remarks
1	Nozzle tip	PPS	
2	Pipe	HTPVC	
3	Cap	HTPVC	PPS for 2*1/2
4	Adaptor	HTPVC	PPS for 2*1/2
5	Sleeve	HTPVC	
6	Plate (Fixed)	S304	Optional
7	Plate (Loose)	S304	Optional
8	Bolt (M10)	S304 equivalent	Optional
9	Washer (10)	S304 equivalent	Optional
10	Bolt (M6)	S304 equivalent	
11	Packing	PTFE	
12	Washer (6)	S304 equivalent	

*1) In our material code, "S" represents "stainless steel". For example, S303 stands for stainless steel 303.
Note: Sealing materials are used for assembly of some parts.

Table 2. Dimensions and weight

Pipe conn. size	Number of orifices (n)	Number of nozzle tips	Outer dimensions (mm)				Weight (g)	
			L1*2	L2	L3	L4	Plastic TF-BPF	Plate (option)
R1	16-40	2-5	84-210	45	48	36	220-330	230
R1*1/2	48-104	6-13	252-546	56	66	44	580-950	590
R2	112-176	14-22	588-924	66	73	50	1,530-2,060	570
R2*1/2	184-304	23-38	966-1596	74	84	58	2,990-4,360	550

*2) L1 = Length of nozzle tips (42 mm x number of nozzle tips)

4. Operation

(1) Installation with the optional mounting plate

Install the plate (part #7) with a round hole at the mounting location and pass the adaptor (#4) with the threaded side of the nozzle through the hole in the plate. Connect the adaptor (#4) to the air pipe (hose), adjust the air blowing direction and then fix the other plate (#6) to the nozzle and the mounting surface with bolts (M10).

Install supports for the air pipe (hose) from the ceiling or floor to prevent the air supply port of the nozzle from being exposed to stress.

5. Troubleshooting

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

If the problem persists, please replace the nozzle.

Table 3. Troubleshooting

No.	Problem	Possible reason	Solution
1	No air blowing, or blowing an irregular pattern.	Air pressure is too low.	Check the pressure in the pipe and apply the proper pressure.
		Nozzle and/or pipe are clogged.	Clean both, the nozzle and pipe. (ultrasonic cleaning, compressed air, etc.).

Due to the structure of this product, there are slight gaps between the pipe and the nozzle tip, the pipe and the cap, as well as the pipe and the adaptor. This causes some air leakage, but this is to be expected and not due to faulty parts.