

**Instruction Manual****WUT series**

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 products properly. Improper use may result in injury and damage to the product.



WARNING

Do not use the WUT series beyond the maximum pressure of 3.0 MPa.



WARNING

Do not use the WUT series beyond the operating temperature range of 5–90 °C.



WARNING

Do not use the WUT series in freezing temperatures.



WARNING

For connection, only use screws conforming to the thread specifications of the WUT adaptor. Connect the WUT series only with the tapered pipe thread R1/4 or Rc1/4.



WARNING

To prevent the water hammer, avoid a sudden increase in pressure.



WARNING

Do not stand in front of the WUT series. Keep your face away from the WUT series to avoid unexpected accidents or injuries.

## 2. Before Use (Instructions & Cautions)



CAUTION

Flush the pipes to purge foreign particles before installing the WUT series.



CAUTION

Apply sealant or sealing tape to the male threads of the WUT series and nozzle. (Recommended tightening torque: 15 N m for pipe connection side of the WUT series. For nozzle tightening, refer to instruction manual of attached nozzle.)



CAUTION

Prior to use, adjust the nozzle direction and securely tighten the bolt. When tightening the bolt, hold the Rc1/4 adaptor by hand to keep the nozzle direction unchanged.



CAUTION

Bolt may loosen due to vibration, if not securely tightened. Tighten the bolt using an appropriate tool that matches the hexagonal part of the bolt (Hex. 8 mm) with a tightening torque of 6 N m. Excessive tightening may cause seizure or damage to the screw.



CAUTION

Stabilizer is built in the nozzle connection side of the WUT series to reduce pressure loss and suppress internal turbulences.



CAUTION

When attaching a nozzle with a strainer, use an extension adaptor between the nozzle and the WUT series, in order to prevent the strainer from hitting the stabilizer built in the WUT series. Consult with your supplier regarding the attaching of a nozzle with a strainer.



CAUTION

Store the WUT series in a clean place free from dust.

## 3. Warranty

There is a 1-year warranty from the date of shipment.

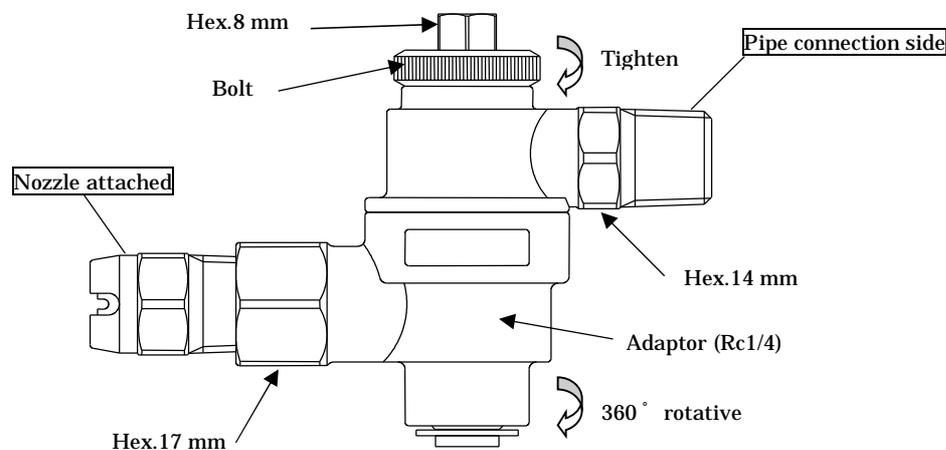
Seller shall be responsible for any damage due to design or production and will replace the item free of charge.

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. How to Use

##### (1) Installation of the WUT series

- Flush the pipes to purge foreign particles before installing the WUT series.
- Apply sealant or sealing tape to the male threads of the WUT series and nozzle. (Recommended tightening torque: 15 N m for pipe connection side of the WUT series. For nozzle tightening, refer to instruction manual of attached nozzle.)
- To attach the nozzle to the WUT series, screw in the nozzle by hand first. Make sure it is screwed in properly, then tighten it with an appropriate tool while holding the hexagonal part (Hex. 17 mm) of the nozzle connection side of the WUT series.
- To connect the WUT series to the pipe, screw in the WUT series by hand first. Make sure it is screwed in properly, then tighten it further using an appropriate tool that matches the hexagonal part (Hex. 14 mm) of the pipe connection side of the WUT series.
- Prior to use, adjust the nozzle direction as desired by turning the Rc1/4 adaptor in the direction of the arrow, and securely tighten the bolt. When tightening the bolt, hold the Rc1/4 adaptor by hand to keep the nozzle direction unchanged.



Recommended tightening torque for bolt	6 N m
Wrench/spanner size for bolt	8 mm
Recommended tightening torque for pipe connection side	15 N m
Wrench/spanner size for pipe connection	14 mm
Thread part	Apply sealant or sealing tape

- The bolt may loosen because of vibration if it is screwed in by hand. Tighten the bolt using an appropriate tool that matches the hexagonal part of the bolt (Hex. 8 mm) with a tightening torque of 6 N m. Excessive tightening may cause seizure or damage to the screw.
- Start the operation at a low water pressure and gradually increase the pressure to desired value to avoid a sudden increase in spray pressure (to prevent the water hammer).

## 5. Troubleshooting

Check the following points in case of trouble.

If the following solutions do not work, please replace the WUT series with a new one.

**Table 1. Troubleshooting**

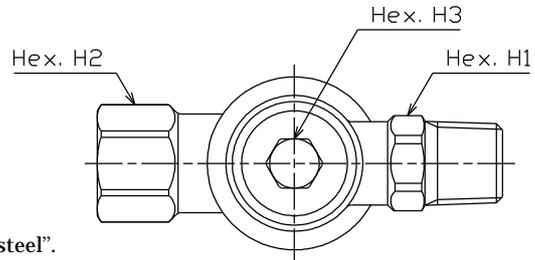
No.	Trouble	Probable cause	Solution
1	Liquid leaking.	Some parts are not firmly screwed in.	Tighten each part properly. (Recommended tightening torque: Bolt; 6 N m, Pipe connection side; 15 N m, Nozzle; refer to instruction manual of attached nozzle)
2	Does not move smoothly.	Abnormality on O-ring. Biting-in of foreign matter	Replace the WUT series.
3	Irregular spray pattern.	Abnormality on stabilizer.	Replace stabilizer.

## 6. Storing

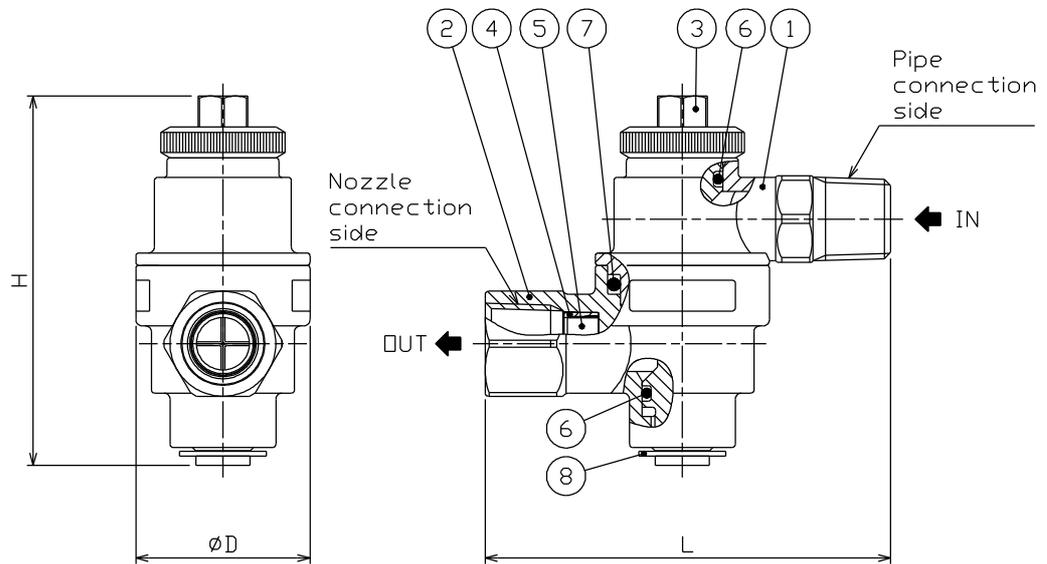
- Store the WUT series in a clean, dust-free location.
- In cold season, before storing, make sure to drain the water inside the piping and the WUT series to prevent damage due to freezing.

7. Structure and Components

No.	Component	Material*
	R1/4 adaptor	SCS13
	Rc1/4 adaptor	SCS13
	Bolt	S303
	Sleeve	S303
	Stabilizer	S316
	O-ring (P10)	NBR
	O-ring (P20)	NBR
	E-ring (7)	S304 equivalent



\*In our material code, "S" represents "stainless steel".  
For example, S303 stands for stainless steel 303.



8. Specifications

Item	WUT 1/4Mx1/4F SCS13	
Dimensions (mm)	L	65.2
	H	59.8
	øD	28
	Hex. H1	14
	Hex. H2	17
	Hex. H3	8
	Pipe connection size	R1/4
	Nozzle connection size	Rc1/4
Weight (g)	146	
Maximum operating pressure (MPa)	3	
Operating temperature range ( )	5-90	
Marking	「いけうち」 「IKEUCHI」	