



Simple and Secure

2 parts only!

I-fit

*— Single ferrule fitting
for stainless tubing—*



IHARA SCIENCE CORPORATION

I – fit

1. Features

Two parts: body and nut. (The ferrule is integrated with the nut.)

※ Some parts have three components. For details, please refer to the specifications below.

Construction problems such as dropping/losing ferrules and wrong-way insertion are eliminated to **zero**.

Two types are available: **rotation control type** and **Nut Full Tightening type** (optional).

3/4 and 1 inch sizes reduce tightening torque by about **30%** and are ideal for **weldless pipe installation**.

2. Specifications Sizing • Rated pressure • Material • Structure etc.

① Sizing

inch : 1/8, 1/4, 3/8, 1/2, 3/4, 1 (ϕ 3.18, ϕ 6.35, ϕ 9.52, ϕ 12.7, ϕ 19.05, ϕ 25.4)

Metric : 6mm, 8mm, 10mm, 12mm, 16mm, 20mm, 22mm, 25mm

② Rated Pressure • Parts Structure

Inch	Metric	Rated Pressure	Parts Structure
1/8, 1/4, 3/8, 1/2	6, 8, 10, 12	21 MPa	<p>2 Parts Structure</p> <p>Body • Assembly Nut (Material: SUS316)</p>
3/4	16, 20, 22	14 MPa	<p>3 Parts Structure</p> <p>Body • Single Ferrule • Nut (Material: SUS316)</p>
1	25	10.5 MPa	

③ Design temperature : - 100°C ~ + 300°C

④ Others

(※) Through turning the nut, ferrule comes off and swages onto tube.



The fitting body can be used with the conventional 'Bi-Lok: Double Ferrule type fitting'.

For the rotation control type, the tightening method (including re-tightening method) for 1-1/4 turns from the Finger Tight Position is the same as previous products.

3. Specification As an option (Nut Full Tightening type)

Can be used as a Nut Full Tightening type by replacing the nut/ferrule

- Nut tightening control is not required!
- Simple • Secure work! (Can visually check the completeness of tightening)

Just tighten the nut fully until reaching the body!

Anyone will realize 『Simple, secure, Higher work efficiency by 30%』

Ideal for utility (equipment piping) and other areas where there is no removal.

**BEFORE
Tightening**



**AFTER
Tightening**



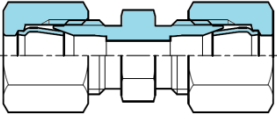
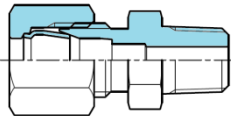
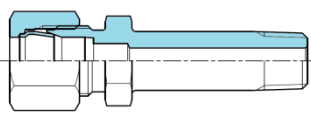
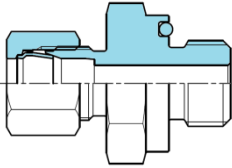
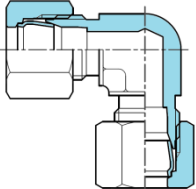
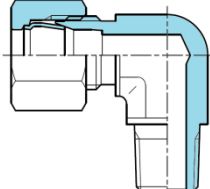
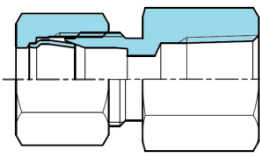
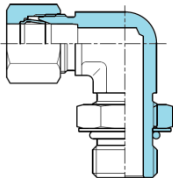
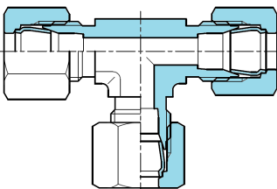
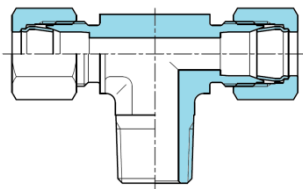
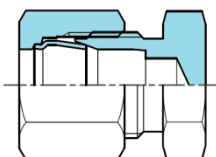

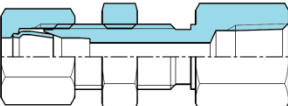
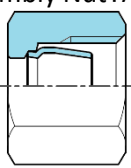
4. Part Number

M AI CT S 10M — R4 SS

- ① Sizing symbol : _____ ⑥ Thread symbol
- ② Type symbol : _____ ⑤ Tube size symbol
- ③ Shape symbol : _____ ④ Option symbol

① Sizing symbol	⑤ Tube size symbol				⑥ Thread size symbol	
	Inch size		Metric size			
M : Metric Blank : Inch	Symbol	Size Inch	Symbol	Size Metric	Symbol	Size
② Type symbol						
AI : I-fit	2	1/8	6M	6	※4	1/4
	4	1/4	8M	8	※6	3/8
③ Shape symbol	6	3/8	10M	10	※8	1/2
Refer to visual index	8	1/2	12M	12	※12	3/4
	12	3/4	16M	16	※16	1
④ Option symbol	16	1	20M	20	※= No Mark : NPT R : R thread G : G thread	
Nut full tightening type only indicated with "S"			22M	22		
			25M	25		

5. Products Visual Index

<p>Union : AIUA</p> 	<p>Male Connector : AICT</p> 	<p>Long Male Connector : AICC</p> 	<p>G thread Connector : AICO</p> 
<p>Elbow Union : AILA</p> 	<p>Male Elbow Nipple : AILN</p> 	<p>Female Connector : AISA</p> 	<p>O-ring Gasket type Elbow Nipple : AILO</p> 
<p>Union Tee : AITA</p> 	<p>Branch Tee : AITN</p> 	<p>Cap : AICA</p> 	<p>Bulkhead Union : AISU</p> 
<p>Female Bulkhead Socket : AISS</p> 	<p>Assembly Nut : AINF</p>  <p>Inch size : 1/8 ~ 1/2 Metric size : φ6 ~ φ12</p>		

As with Bi-Lok fittings, other shapes are available as well. Please contact us for details.

Why are double ferrule type fittings used for stainless tubing?

Which one is better for you?

Conventional
Double ferrule type



Nos of parts: 4ea

“ I-fit ”



Nos of parts: 2ea

※Please contact us for further details, handling instructions and other questions.



イハラサイエンス株式会社
IHARA SCIENCE CORPORATION

ISO 9001/ISO14001 Certified Plants (DNV certification)

【Head Office】

11-3 Takanawa 3-chome Minato-ku, Tokyo 108-0074 Japan
TEL : +81-3-6721-6981 FAX : +81-3-6721-6991

【Chubu Sales Office】 〒460-0012

Tsukasa Building, 3-14-19 Chiyoda, Naka-ku, Nagoya,
Aichi, Japan 460-0012
TEL : +81-52-323-2627 FAX : +81-52-323-2630

【West Japan Sales Office】

4F IS Minamimorimachi Bld, 2-6-5 Higashitenma,
Kita-ku, Osaka, Japan 530-0044
TEL : +81-6-6358-9255 FAX : +81-6-6358-9260

【Overseas sales Network】

Taiwan: Taichung
China / Nantong
Korea / Gyeonggi-Do
USA / California

 **Warning**

If you don't select and handle fittings, valves and related accessories in an adequate manner, it may injure human beings and damage applicable systems. Within the responsibility and authorization of users and piping designers, fittings, valves and related accessories shall be adequately selected, assembled, used and maintained based on the applicable conditions and product conformity to the system to be applied. Please read our operation manual carefully and feel free to contact us if you have any questions or requests.

WARRANTY CLAUSE

1. Warranty Period

The warranty period of the products is one (1) year from start of use or one and half (1.5) years after delivery whichever comes earlier. However, the products with special specification and/or the cases used deviating from the design specification shall be exempted.

2. Scope of Warranty

Any failure and damage under maker's responsibility found during the warranty period, the substitutes and/or replacement parts shall be provided free of charge. The warranty shall not be applied to a claim for the liquidated damages.