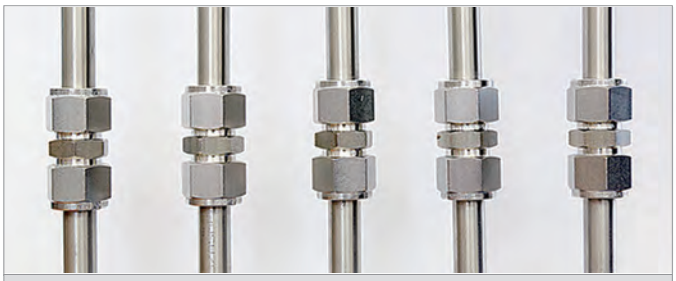
i-Fitting®

Tube Fitting that is:

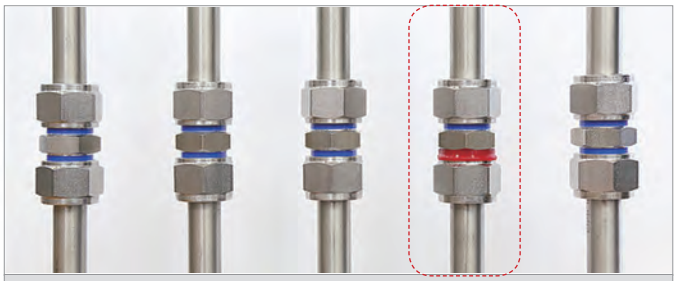
The Most-Advanced Industry-Changing
Chevron-Approved BMT-Patented

Why i-Fitting is the Right choice?

Can you SEE the Leak Points?



Conventional installation



Installation with i-Fitting

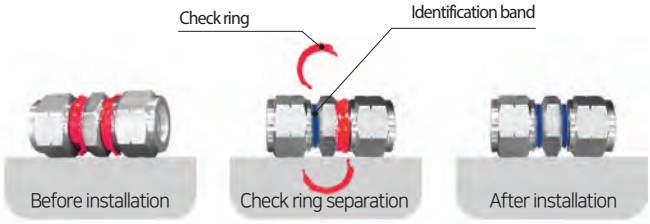
PERFECT CONNECTION can be SEEN, HEARD, FELT with this SAFEST fitting in the market!

Consistent and perfect installation can be made by anyone

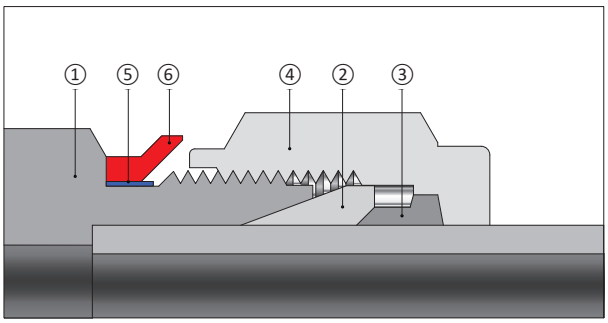
Most tube fitting leaks are caused by improper installation. i-Fitting ensure a safe, quick, and precision connection every time. The "Check Ring", which function as a built-in gap gauge, separates as a fitting is tightened to the exact point of perfect compression. This quality control and safety features reduce installer error attributed to unskilled work and assure consistent leak free connections.

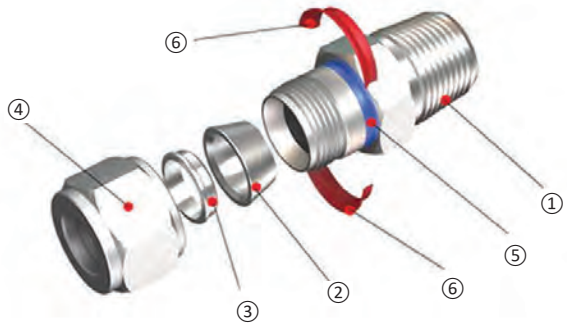
Improvement of productivity and cost saving

i-Fitting enables efficient and safe installation by helping installers identify the status of installation simply by 'seeing, hearing, and touching'.
Upon completion of installation, additional inspection with separate tools such as gap-inspection gauge (which normally required for conventional tube fitting) is not required. i-Fitting, therefore, not only saves installation time but also minimizes overall quality costs by reducing errors.



Structure





① Body
② Front Ferrule
③ Back Ferrule
④ Nut
⑤ Identification Bend*
⑥ Check Ring**

* Identification band: Blue for fractional (inch), Green for metric (mm)
** Check Ring: Red for fractional (inch), Yellow for metric (mm)

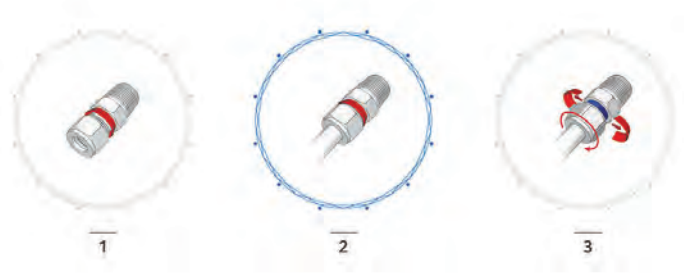
MAKO PRODUCTS
844-200-MAKO (6256)
sales@mako-products.net

Features

- i-Fitting components include: body, front & back ferrule, nut, identification band, and check ring
- The check ring is essentially a built-in gap gauge, which separates when a fitting is tightened to the point of perfect compression
- Solves over- and under-tightening problems
- Increases installer safety in high pressure and dangerous chemical environments
- Improves productivity and reduces costs
- Industry changing, patented design by BMT
- Applicable to valve connections
- Sizes (Standard): 1/4 to 1 inches and 6mm to 25mm

Installation Instructions

(1) Prepare for i-Fitting® consisting of body, nut, front/back ferrule, and check ring.
(2) Fully insert the tube into i-Fitting® and against the shoulder; rotate the nut finger-tight until the tube will not turn by hand.
(3) While holding the fitting body steady, tighten the nut until the check ring separates from the body. This separation of the check ring indicates the completion of installation.



Ordering information

Example : **SMCI** (1) - **8** (2) - **8N** (2) - **B** (3)

1. Type of fitting

For i-Fitting "I" is used as a suffix to the type designator of SUPERLOK Tube Fitting.
(Example: SMC for SUPERLOK Male Connector
→ SMCI for i-Fitting Male Connector)

Please refer to i-Fitting type index on page 72.

Examples :
□ **SUI** = i-fitting union □ **SMCI** = i-fitting male connector

2. Size of Fitting

Tube O.D (inch)	1/4	3/8	1/2	3/4	1
Designator	4	6	8	12	16
Tube O.D (mm)	6	10	12	20	25
Designator	6M	10M	12M	20M	25M

3. Material

□ ***SS(Blank)*** = Stainless Steel
□ **B** = Brass
□ **AL**= Aluminum
□ ***15*** = Carbon Steel
□ **M40**= Monel Alloy 400
□ **825** = Alloy 825
□ **625** = Alloy 625
□ **276** = Alloy C-276

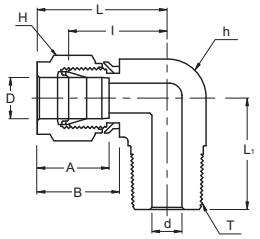
※ For special sizes and configurations, please consult BMT (SUPERLOK) sales representative.

SMEI

Male Elbow

Standard

i-Fitting



Connects Fractional Tube To Female NPT Thread

Part No.	Tube OD D (inch)	T (NPT)	d Min	Width Across Flat		A	B	I	L	L_1
				h (inch)	H (inch)					
SMEI - 4 - 2N	1/4	1/8	4.82	1/2	9/16	15.24	17.78	19.55	26.92	18.79
SMEI - 4 - 4N	1/4	1/4	4.82	1/2	9/16	15.24	17.78	19.55	26.92	23.36
SMEI - 4 - 6N	1/4	3/8	4.82	5/8	9/16	15.24	17.78	22.35	29.71	26.16
SMEI - 4 - 8N	1/4	1/2	4.82	13/16	9/16	15.24	17.78	24.38	31.75	33.02
SMEI - 6 - 2N	3/8	1/8	4.82	5/8	11/16	16.76	19.30	23.11	30.48	20.82
SMEI - 6 - 4N	3/8	1/4	7.11	5/8	11/16	16.76	19.30	23.11	30.48	25.40
SMEI - 6 - 6N	3/8	3/8	7.11	5/8	11/16	16.76	19.30	23.87	31.24	26.16
SMEI - 6 - 8N	3/8	1/2	7.11	13/16	11/16	16.76	19.30	25.90	33.27	33.02
SMEI - 6 - 12N	3/8	3/4	7.11	1-1/16	11/16	16.76	19.30	29.71	37.08	36.83
SMEI - 8 - 4N	1/2	1/4	7.11	13/16	7/8	22.86	21.84	25.90	36.06	28.19
SMEI - 8 - 6N	1/2	3/8	9.65	13/16	7/8	22.86	21.84	25.90	36.06	28.19
SMEI - 8 - 8N	1/2	1/2	10.41	13/16	7/8	22.86	21.84	25.90	36.06	33.02
SMEI - 8 - 12N	1/2	3/4	10.41	1-1/16	7/8	22.86	21.84	29.71	39.87	36.83
SMEI - 12 - 8N	3/4	1/2	11.93	1-1/16	1-1/8	24.38	21.84	29.71	39.87	36.83
SMEI - 12 - 12N	3/4	3/4	15.74	1-1/16	1-1/8	24.38	21.84	29.71	39.87	36.83
SMEI - 16 - 12N	1	3/4	15.74	1-3/8	1-1/2	31.24	26.41	36.83	49.02	41.65
SMEI - 16 - 16N	1	1	22.35	1-3/8	1-1/2	31.24	26.41	36.83	49.02	46.48

Connects Metric Tubes To Female ISO Tapered Thread

Part No.	Tube OD D	T (PT)	d Min	Width Across Flat		A	B	I	L	L_1
				h	H					
SMEI - 6M - 2R	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27.0	18.8
SMEI - 6M - 4R	6	1/4	4.8	12.7	14	15.3	17.7	19.6	27.0	23.4
SMEI - 6M - 6R	6	3/8	4.8	15.9	14	15.3	17.7	22.4	29.8	26.2
SMEI - 8M - 4R	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
SMEI - 8M - 6R	8	3/8	6.4	15.9	16	16.2	18.6	23.1	30.6	26.2
SMEI - 8M - 8R	8	1/2	6.4	20.6	16	16.2	18.6	25.1	32.6	33.0
SMEI - 10M - 6R	10	3/8	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
SMEI - 10M - 8R	10	1/2	7.9	20.6	19	17.2	19.5	25.9	33.5	33.0
SMEI - 12M - 8R	12	1/2	9.5	20.6	22	22.8	22.0	25.9	36.0	33.0
SMEI - 12M - 12R	12	3/4	9.5	27.0	22	22.8	22.0	29.7	39.8	36.8
SMEI - 16M - 8R	16	1/2	11.9	23.8	25	24.4	22.0	27.9	38.0	35.1
SMEI - 18M - 8R	18	1/2	11.9	27.0	30	24.4	22.0	29.7	39.8	36.8
SMEI - 18M - 12R	18	3/4	15.1	27.0	30	24.4	22.0	29.7	39.8	36.8
SMEI - 20M - 8R	20	1/2	11.9	34.9	32	26.0	22.0	34.5	44.6	41.7
SMEI - 20M - 12R	20	3/4	15.9	34.9	32	26.0	22.0	34.5	44.6	41.7
SMEI - 25M - 12R	25	3/4	15.9	34.9	38	31.3	26.5	36.8	49.1	41.7
SMEI - 25M - 16R	25	1	21.8	34.9	38	31.3	26.5	36.8	49.1	46.5

- Dimensions and Drawings are for reference only and are subject to change without prior notice.
-Unless otherwise specified, all dimensions are in millimeters.
-Sizes, pressure classes, and end connections not listed are available upon request.
-Dimensions shown with SUPERLOK nuts finger-tight, where applicable.