

Integration Tube Fitting

High Technology Valve & Flange & Fitting Series



 **SUPERLOK®**

 **BMT Co., Ltd.**
www.superlok.com

INTEGRATION TUBE FITTING

Inaugurate a new era of fitting.

INTEGRATION TUBE FITTING is easy to confirm 1-1/4 turns with tightening inspection device.

To order, add **I** as a suffix to the SUPERLOK tube fitting ordering number.

Example : SUI-8-SS (Union 1/2" + Tightening inspection device)

Difficulties in installation existing Tube Fittings

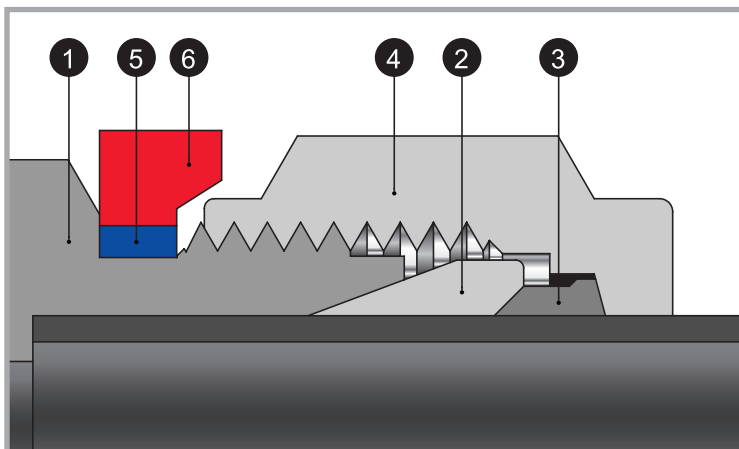
- Difficult to check 1-1/4 turns
- Use Inspection Gap Gauge to ensure sufficient pull-up installation
- Need Inspection Gap Gauge to assure fitting has been sufficiently pulled up.
- Difficult to check with Inspection Gap Gauge in limited spaces.
- These problems could cause poor installation and leakage.

Integration fittings features

- No Inspection Gap Gauge is required.
- Easy to ensure sufficient tightening without additional tools
- Easy to install and increase the installation efficiency
- Easy to ensure accurate fitting of all components
- Prevent leakage by poor installation
- Applicable to Bite type fitting as well as tube fitting

Structure

- Integration Tube Fitting is designed to insert tightening inspection device between the nut and the body before assembly
- Integration Tube Fitting consists of Check ring and Inspection ring



No.	COMPONENT
1	BODY
2	FRONT FERRULE
3	BACK FERRULE
4	NUT
5	CHECK RING
6	INSPECTION RING

How the SUPERLOK Integration Tube Fitting Works

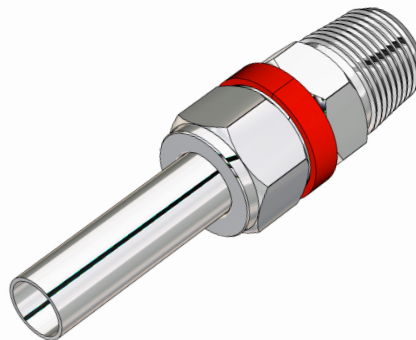
- Rotate the nut in order to advance Inspection Ring.
- At proper turns of wrench pull-up, the Check Ring separates from the body.
- Available to assure the fitter that sufficient pull-up has been achieved by remained Check Ring on the body.

Installation Procedure

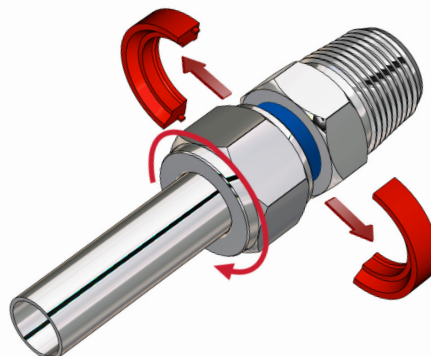
1. Assemble body, back & front ferrule, nut and tightening inspection device









2. Fully insert the tube into the fitting and against the shoulder, rotate the nut finger-tight









3. Rotate the nut clockwise until Inspection ring separates from the body.
4. Confirm 1-1/4 turns by checking check ring on the body. The fitting is sufficiently tightened.


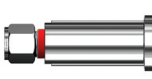



UNION	
SUI Union	
SRUI Reducing Union	

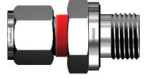

CONNECTOR	
SMCI Male Connector	
SOMCI Male Connector For Metal Gasket Seal	
SFCI Female Connector	
SGCI Gauge Connector	




ELBOW	
SUEI Union Elbow	
SMEI Male Elbow	
SHMEI 45° Male Elbow	
SPHMEI 45° Positionable Male Elbow	


TEE	
SUTI Union Tee	
SRUTI Reducing Union Tee	
SMBTI Male Branch Tee	
SPMRTI Positionable Male Run Tee	
SFBTI Female Branch Tee	
SUCI Union Cross	

STUB TUBE CONNECTOR	
SRI Reducer	
SFTCI Flange Lapped Tubes Connector	

AN TUBE	
SAUI An Union	

O-RING SEAL	
SOSCI O-Seal Straight Thread Connector	
SSMCI SAE/MS Male Connector	

WELD END	
SPWCI Male Pipe Weld Connector	
SSWCI Socket Weld Connector	
SSWEI Socket Weld Elbow	

CAP	
SCI Cap	

Ordering Information

SMCI - 8 - 8N - SS

1

2-1

2-2

3

1 Type of fitting

To order, use "I" as a suffix to the desired Type of fitting ordering designation.

ex) SMC → **SMCI**
SUPERLOK Tube Fitting Male Connector Integration Fitting Male Connector

3 Material

A - Aluminum B - Brass
 C - Carbon Steel SS - Stainless Steel
 M - Monel Alloy 400 INC - Inconel Alloy 600

2 Size of Fitting

2-1) Tube O.D Designation

Tube O.D (inch)	1/16	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	2
Designation	1	2	3	4	5	6	8	10	12	14	16	20	24	36
Tube O.D (mm)	2	3	4	6	8	10	12	16	20	22	25	28	32	38
Designation	2M	3M	4M	6M	8M	10M	12M	16M	20M	22M	25M	28M	32M	38M

2-2) Pipe Thread Designation

Size (inch)	1/8	1/4	3/8	1/2	3/4	1
ISO Tapered	2R	4R	6R	8R	12R	16R
Screwed NPT	2N	4N	6N	8N	12N	16N
ISO Tapered	2G	4G	6G	8G	12G	16G
Unified Screw	2U	4U	6U	8U	12U	16U