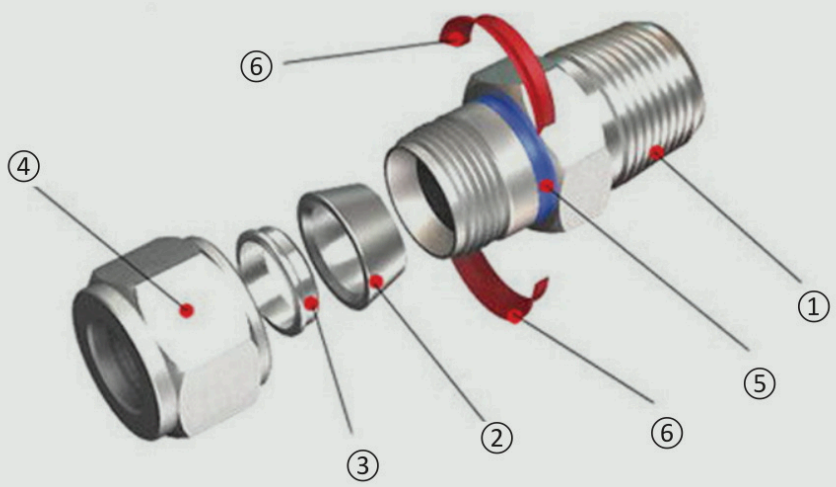
TUBE FITTING INSTALLATION

How to check a SUPERLOK i-Fitting installation

Two stainless unions lie next to a finished instrument panel. One is for 12 mm tube and the other for 1/2 in. tube. The technician needs to identify the right union and tell whether its initial pull-up is complete.

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BMT SUPERLOK

i-Fitting

Exploded double-ferrule union

Exploded i-Fitting assembly, R10, p. 3.

INITIAL PULL-UP

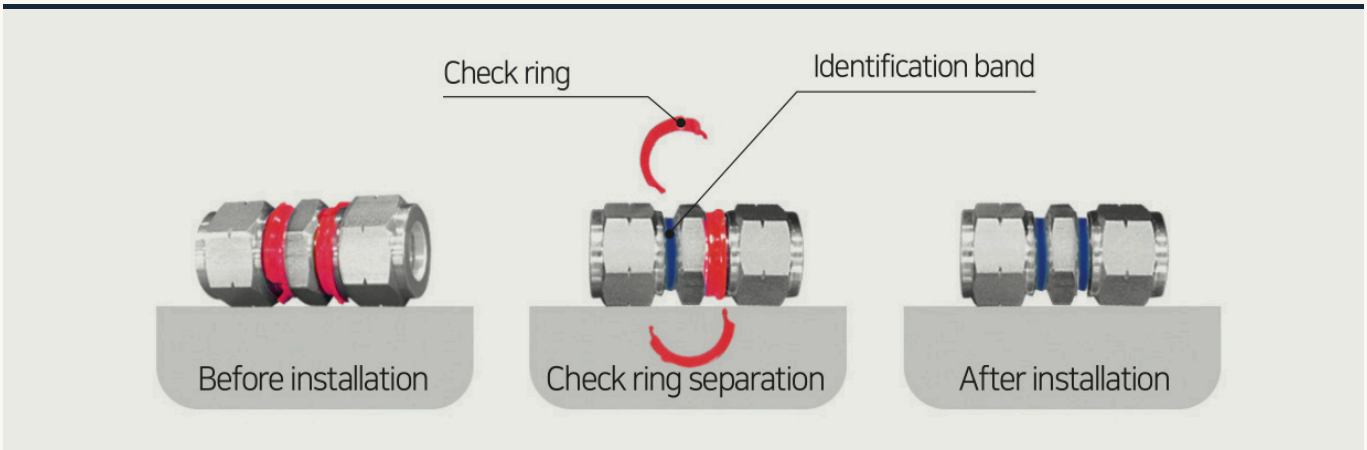
Ring release

On a new BMT SUPERLOK i-Fitting, the tube first seats against the internal shoulder. The built-in check ring separates at BMT's indicated pull-up point. Tube size, tube condition and the completed assembly's leak test each need their own check.

INITIAL ASSEMBLY

Two coloured parts with different jobs

Look at the two coloured features before you install the fitting. BMT assigns a permanent identification band to the size system and a separate check ring to the initial installation indication. Confusing the two can turn a correct observation about size into an incorrect conclusion about assembly.



BMT's three views of the check ring during initial assembly. The identification band stays on the fitting. BMT source.

The 0.70 mm difference in tube OD matters at the ferrules. BMT lists these as separate unions. Verify the tube marking or measured OD and the fitting part number. Colour supports identification on this specific BMT product.

Two similar-looking straight unions

BMT part	Tube OD	Identification band	Check ring
SUI-12M	12.00 mm	Green	Yellow
SUI-8	1/2 in. (12.70 mm)	Blue	Red

BMT i-Fitting, pp. 3–5

AT THE PANEL

What does a released ring actually prove?

For a new i-Fitting, BMT instructs the installer to seat the tube fully against the shoulder, bring the nut finger-tight until the tube cannot be turned by hand, hold the body steady and tighten until the check ring separates. Follow the installation sheet for the exact product and size.

The ring was already missing

On a fitting of unknown history, a missing ring cannot establish the starting condition or prove who completed the first pull-up. Identify whether this is a new assembly or a remake. For a remake, identify the original body and ferrule assembly and use the manufacturer's instructions for reassembly. The initial check-ring indication cannot be recreated by observing an already assembled joint.

A correctly released ring is only one observation

The separating ring indicates the designed nut travel on the initial assembly. The identification band remains on the fitting. It cannot verify traceability, tube surface, correct tube condition or leak tightness in service. Complete the required inspection and system test under the approved procedure before return to service.

Can I use the same endpoint on another two-ferrule fitting?

Use the manufacturer's instructions for the complete fitting in hand. Conventional SUPERLOK and i-Fitting have distinct installation guidance. Keep body, nut and ferrules as a documented assembly. Isolate and depressurise the line before disturbing any connection.

An example of a metric assembly record

Union and tube	Identification band	Initial check ring
SUI-12M · 12 mm	Green	Yellow

Technical references

BMT SUPERLOK · i-Fitting R10, indication and installation, pp. 3–4
BMT SUPERLOK · SUI metric and fractional unions, p. 5
BMT SUPERLOK · i-Fitting demonstration film

Watch BMT demonstrate the check ring