

SS316 NUT & FERRULE SET

Replacement Nut, Front Ferrule and Back Ferrule · Double Ferrule Design · Stainless Steel 316

BRAND: SWLOK

SKU: SW-0067

SIZE 1/8" TO 3/4", 6 TO 25 MM

SS316 / DOUBLE FERRULE



FIG. 1 | SS316 NUT, FRONT FERRULE AND BACK FERRULE

PRODUCT OVERVIEW

The SWLOK SS316 Nut and Ferrule Set is the sealing component kit for double ferrule compression tube fittings. Each set contains one nut, one front ferrule and one back ferrule, used for new connections or to replace components when a joint is remade on new tube.

On make-up, the front ferrule seals against the fitting body and tube, while the back ferrule grips the tube and drives the front ferrule. The result is a gas-tight joint with resistance to vibration and pressure cycling, at low assembly torque.

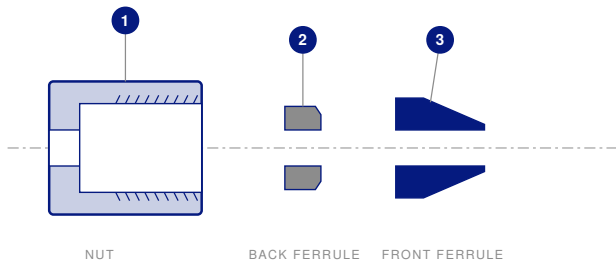
Product type	Nut and ferrule set
Contents	1 nut, 1 front ferrule, 1 back ferrule
Seal design	Double ferrule compression
Material	Stainless steel 316
Size range	1/8" to 3/4", 6 mm to 25 mm
Pressure rating	To tube working pressure

TECHNICAL SPECIFICATION

Fitting class	Instrumentation tube fitting	Tubing	ASTM A269 / A213 seamless
Nut thread	Matched to fitting body	Tube hardness	HRB 80 max. recommended
Front ferrule	Seals on body and tube	Temperature	-196°C to +538°C
Back ferrule	Grips tube, drives front ferrule	Assembly	1-1/4 turns past finger tight
Tube sizing	Fractional and metric OD	Seal	Metal to metal
Supply	Set of three parts	Use with	SWLOK double ferrule bodies



BILL OF MATERIALS



ASSEMBLY ORDER ON TUBE: NUT, BACK FERRULE, FRONT FERRULE

#	COMPONENT	MATERIAL
1	Nut	SS316, ASTM A479 / A276
2	Back ferrule	SS316, ASTM A479 / A276
3	Front ferrule	SS316, ASTM A479 / A276

Ferrules are directional: the back ferrule is fitted with its flat face towards the nut, and the front ferrule with its tapered nose towards the fitting body.

FIG. 2 | COMPONENT SECTIONS, EXPLODED

DIMENSIONS

SIZE	D TUBE OD (MM)	H NUT HEX (MM)	L NUT LENGTH (MM)	SET CONTENTS
1/8"	3.17	11.11	11.93	Nut + 2 ferrules
1/4"	6.35	14.28	12.70	Nut + 2 ferrules
3/8"	9.52	17.46	14.22	Nut + 2 ferrules
1/2"	12.70	22.22	17.52	Nut + 2 ferrules
3/4"	19.05	28.57	17.52	Nut + 2 ferrules
6 mm	6	14.00	12.70	Nut + 2 ferrules
8 mm	8	16.00	13.50	Nut + 2 ferrules
10 mm	10	19.00	15.10	Nut + 2 ferrules
12 mm	12	22.00	17.40	Nut + 2 ferrules
14 mm	14	25.00	17.40	Nut + 2 ferrules
15 mm	15	25.00	17.40	Nut + 2 ferrules
16 mm	16	25.00	17.40	Nut + 2 ferrules
18 mm	18	30.00	17.40	Nut + 2 ferrules
20 mm	20	32.00	17.40	Nut + 2 ferrules
22 mm	22	32.00	17.40	Nut + 2 ferrules
25 mm	25	38.00	20.60	Nut + 2 ferrules

D = tube OD. H = nut hex across flats. L = nut length. All dimensions in mm and nominal, for reference only. Certified drawings for the supplied size are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0067
Tube OD	1/8", 1/4", 3/8", 1/2", 3/4" and 6, 8, 10, 12, 14, 15, 16, 18, 20, 22, 25 mm
Material	SS316 nut and ferrules
Supply	Complete set, or nut / ferrules separately on request
Order example	SW-0067 / 1/2" OD / SS316

Stock held in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and certification requirements.



PRESSURE AND TEMPERATURE

Pressure rating	Rated to the working pressure of the tube used
Tubing	Seamless 316 / 316L, ASTM A269 or A213
Tube condition	Fully annealed, HRB 80 max. recommended
Temperature	-196°C to +538°C, metal-to-metal seal

The fitting does not limit the system rating: the allowable working pressure is set by the tube OD, wall thickness and material. Temperature limits apply to the 316 stainless steel metal parts. Confirm duty with SWBM for cyclic, high temperature or corrosive service.

TYPICAL APPLICATIONS

- Instrumentation tube connections
- Analytical and sampling systems
- Hydraulic control lines
- Pneumatic circuits and instrument air
- Replacement during line modification and repair
- Oil and gas, petrochemical and power plants

COMPLIANCE AND QUALITY

- Nut and ferrules manufactured from SS316
- Double ferrule compression design, no welding, flaring or special tools
- Metal-to-metal seal, free of elastomers and sealants
- Heat code traceability on nut
- Material test certificate EN 10204 3.1 on request
- Supplied as matched sets, bagged per size

INSTALLATION AND OPERATION

- Slide the nut, back ferrule and front ferrule onto the tube in that order
- Check ferrule direction: back ferrule flat face to nut, front ferrule nose to body
- Cut the tube square and deburr inside and outside the tube end
- Insert the tube fully until it bottoms on the body shoulder, then tighten the nut finger tight
- Mark the nut at the 6 o'clock position and hold the body hex with a second spanner
- Tighten the nut 1-1/4 turns for 1/4" to 1" and 6 mm to 25 mm, and 3/4 turn for 1/8" and below

COMPANY

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