SS316L UNION CONNECTOR OD X OD

Straight Tube Union · Double Ferrule Compression Both Ends · Stainless Steel 316L

BRAND: SWLOK | SKU: SW-0061 | SIZE 1/8" TO 3/4", 6 TO 25 MM | SS316L / DOUBLE FERRULE



FIG. 1 | SS316L UNION CONNECTOR, TUBE OD BOTH ENDS

PRODUCT OVERVIEW

The SWLOK SS316L Union Connector joins two tubes of the same outside diameter in a straight line. Both ends use the double ferrule compression design, giving a gas-tight, vibration resistant joint without welding, flaring or threading of the tube.

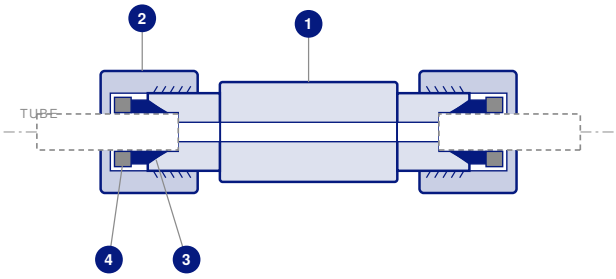
The body is machined from low carbon 316L stainless steel for corrosion resistance in process, offshore and chemical environments. Typical use is mid-run joining and repair of instrumentation, hydraulic and sampling lines.

Fitting type	**Straight union, equal**
End connections	**Tube OD x tube OD**
Seal design	**Double ferrule compression**
Body material	**Stainless steel 316L**
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**
Ferrules	**Front and back, SS316**	Tube hardness	**HRB 80 max. recommended**
Nut	**SS316, silver free**	Temperature	**-196°C to +538°C**
Tube sizing	**Fractional and metric OD**	Seal	**Metal to metal**
Assembly	**1-1/4 turns past finger tight**	Reusable	**Yes, remake per instructions**
Ends	**2 x compression**	Supply	**Assembled, nuts finger tight**

BILL OF MATERIALS



#	COMPONENT	MATERIAL
1	Body	SS316L, ASTM A479 / A182 F316L
2	Nut	SS316, ASTM A479 / A276
3	Front ferrule	SS316, ASTM A479 / A276
4	Back ferrule	SS316, ASTM A479 / A276
5	Tube (not supplied)	316 / 316L seamless tubing

Each union is supplied complete with two nuts and two ferrule sets fitted. Reducing unions can be supplied against enquiry.

FIG. 2 | SECTIONAL ARRANGEMENT

DIMENSIONS

SIZE	D	L	B	Y	O MIN.	H	H1	X
1/8"	3.17	35.60	15.30	12.70	2.40	11.00	11.00	22.40
1/4"	6.35	40.90	17.80	15.30	4.80	14.00	14.00	26.20
3/8"	9.52	45.00	19.30	16.80	7.10	16.00	17.00	30.20
1/2"	12.70	51.30	21.80	22.90	10.40	20.50	22.00	31.00
3/4"	19.05	53.60	21.80	24.40	15.80	27.00	28.50	33.30
6 mm	6	41.00	17.70	15.30	4.80	14.00	14.00	26.20
8 mm	8	43.20	18.60	16.20	6.30	16.00	16.00	28.20
10 mm	10	46.20	19.50	17.20	7.90	17.00	19.00	31.00
12 mm	12	51.20	22.00	22.80	9.50	20.50	22.00	31.00
14 mm	14	52.00	22.00	24.40	11.10	24.00	25.00	31.00
15 mm	15	52.00	22.00	24.40	11.90	24.00	25.00	31.80
16 mm	16	52.00	22.00	24.40	12.70	24.00	25.00	31.80
18 mm	18	53.50	22.00	24.40	15.10	27.00	30.00	33.30
20 mm	20	55.00	22.00	26.00	15.90	30.00	32.00	34.80
22 mm	22	55.00	22.00	26.00	18.30	30.00	32.00	34.80
25 mm	25	65.00	26.50	31.30	21.80	35.00	38.00	40.40

D = tube OD. O = minimum bore. H = body hex, H1 = nut hex, across flats. L = overall length. Y = tube insertion depth. B, X, Z = reference lengths per the manufacturer dimensional drawing, assembled finger tight. 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-0061
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	SS316L body with SS316 nut and ferrules
Configuration	Equal union. Reducing union on request
Order example	**SW-0061 / 1/2" OD x 1/2" OD / SS316L**

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

- Instrument impulse and signal lines
- Analyser and sampling systems
- Hydraulic and pneumatic control lines
- Chemical injection and process piping
- Steam tracing and utility tubing
- Oil and gas, petrochemical and power plants

COMPLIANCE AND QUALITY

- Body manufactured from SS316L, low carbon grade for weldment-free corrosion resistance
- Double ferrule compression design, no welding, flaring or special tools
- Metal-to-metal seal, free of elastomers and sealants on the tube end
- Heat code traceability on body and nut
- Material test certificate EN 10204 3.1 on request
- Supplied clean, capped and bagged per size

INSTALLATION AND OPERATION

- 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
- For remake, tighten to the previous position, then snug slightly with a spanner
- Do not mix components from different fitting brands

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