



SS316L ELBOW CONNECTOR 90D MNPT X OD

90° Male Elbow · Tube OD x Male NPT · Stainless Steel 316L

BRAND: SWLOK

SKU: SW-0062

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

SS316L / DOUBLE FERRULE



FIG. 1 | SS316L 90° MALE ELBOW, TUBE OD x MALE NPT

PRODUCT OVERVIEW

The SWLOK SS316L 90° Elbow Connector joins a tube to a female NPT threaded port at a right angle. It saves space where a straight connector and tube bend would not fit, such as at valve, manifold and instrument ports.

The forged body is produced from low carbon 316L stainless steel. The tube end uses the double ferrule compression design for a gas-tight, vibration resistant joint, and the tapered male NPT end seals on the thread with a suitable sealant.

Fitting type	90° male elbow
End connections	Tube OD x male NPT
Seal design	Double ferrule compression
Body material	Stainless steel 316L
Size range	1/8" to 3/4" OD, 1/8" to 3/4" NPT
Pressure rating	To tube working pressure

TECHNICAL SPECIFICATION

Fitting class	Instrumentation tube fitting	Tubing	ASTM A269 / A213 seamless
Angle	90°	Tube hardness	HRB 80 max. recommended
Thread	Male NPT, ASME B1.20.1	Temperature	-196°C to +538°C
Ferrules	Front and back, SS316	Assembly	1-1/4 turns past finger tight
Nut	SS316	Seal	Metal to metal on tube end
Ends	1 x compression, 1 x MNPT	Supply	Assembled, nut finger tight

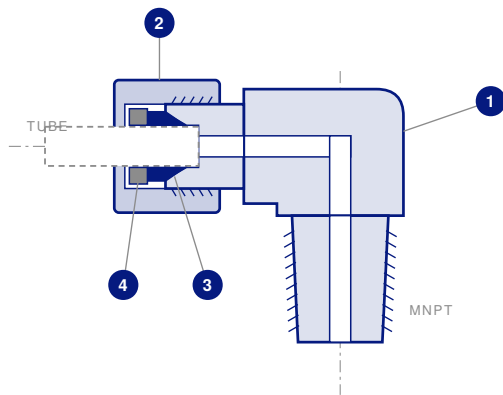


PRODUCT DATA SHEET

SS316L ELBOW CONNECTOR 90D MNPT X OD

Ref. SW-0062 | Rev. 01

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

Supplied complete with nut and ferrule set fitted. Equal and reducing tube OD and thread combinations available.

FIG. 2 | SECTIONAL ARRANGEMENT

DIMENSIONS

SIZE (OD X NPT)	D (MM)	T	Z	B	A	Y	O MIN.	H	H1	X	X1
1/8" x 1/8"	3.17	1/8"	23.60	9.60	15.30	12.70	2.40	11.00	11.00	17.00	17.80
1/8" x 1/4"	3.17	1/4"	24.60	14.30	15.30	12.70	2.40	14.00	11.00	18.00	23.40
1/4" x 1/8"	6.35	1/8"	26.90	9.60	17.80	15.30	4.80	14.00	14.00	19.60	18.80
1/4" x 1/4"	6.35	1/4"	26.90	14.30	17.80	15.30	4.80	14.00	14.00	19.60	23.40
1/4" x 3/8"	6.35	3/8"	29.70	14.30	17.80	15.30	4.80	19.00	14.00	22.40	26.20
1/4" x 1/2"	6.35	1/2"	31.80	19.10	17.80	15.30	4.80	22.00	14.00	24.40	33.00
3/8" x 1/8"	9.52	1/8"	30.50	9.60	19.30	16.80	4.80	14.00	17.00	23.10	20.90
3/8" x 1/4"	9.52	1/4"	30.50	14.30	19.30	16.80	7.10	17.00	17.00	23.10	25.40
3/8" x 3/8"	9.52	3/8"	31.20	14.30	19.30	16.80	7.10	19.00	17.00	23.90	26.20
3/8" x 1/2"	9.52	1/2"	33.30	19.10	19.30	16.80	7.10	22.00	17.00	25.90	33.00
1/2" x 1/4"	12.70	1/4"	36.00	14.30	21.80	22.90	4.80	20.50	22.00	25.90	28.20
1/2" x 3/8"	12.70	3/8"	36.00	14.30	21.80	22.90	9.60	20.50	22.00	25.90	33.00
1/2" x 1/2"	12.70	1/2"	36.00	19.10	21.80	22.90	10.40	22.00	22.00	25.90	33.00
1/2" x 3/4"	12.70	3/4"	39.90	19.10	21.80	22.90	10.40	27.00	22.00	29.70	36.80
3/4" x 1/2"	19.05	1/2"	39.90	19.10	21.80	24.40	15.80	27.00	28.50	29.70	36.80
3/4" x 3/4"	19.05	3/4"	39.90	19.10	21.80	24.40	15.80	27.00	28.50	29.70	36.80

D = tube OD, T = NPT thread size. O = minimum bore. H = body hex, H1 = nut hex, across flats. L = overall length. Y = tube insertion depth. A, B, C, X, X1, Z = reference lengths per the manufacturer dimensional drawing, assembled finger tight. Metric tube OD sizes 6 mm to 25 mm are supplied to the same design, dimensions on request. 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-0062
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
Thread	Male NPT, 1/8" to 3/4"
Material	SS316L body with SS316 nut and ferrules
Order example	SW-0062 / 3/8" OD x 1/4" MNPT / 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
NPT end	Pressure may be limited by the NPT thread size

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

- Right angle connection to valves and manifolds
- Gauge, switch and transmitter hook-ups
- Hydraulic and pneumatic control lines
- Analyser and sampling panels
- Chemical injection and process piping
- 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
- NPT threads to ASME B1.20.1
- 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
- Apply PTFE tape or an approved thread sealant to the male NPT thread only
- Make up the NPT end first, finishing with the tube port in the required direction
- 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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