

SS316L MALE CONNECTOR MNPT X OD

Straight Male Connector · Tube OD x Male NPT · Stainless Steel 316L

BRAND: SWLOK

SKU: SW-0059

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

SS316L / DOUBLE FERRULE



FIG. 1 | SS316L MALE CONNECTOR, TUBE OD x MALE NPT

PRODUCT OVERVIEW

The SWLOK SS316L Male Connector joins a tube to a female NPT threaded port, such as a valve, gauge, transmitter or vessel connection. The tube end uses the double ferrule compression design for a gas-tight, vibration resistant joint.

The body is machined from low carbon 316L stainless steel for corrosion resistance in oil and gas, petrochemical and power generation service. The tapered male NPT end seals on the thread with a suitable sealant.

Fitting type	Straight male connector
End connections	Tube OD x male NPT
Seal design	Double ferrule compression
Body material	Stainless steel 316L
Size range	1/8" to 3/4", 6 to 25 mm OD
Pressure rating	To tube working pressure

TECHNICAL SPECIFICATION

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



PRODUCT DATA SHEET

SS316L MALE CONNECTOR MNPT X OD

Ref. SW-0059 | Rev. 02

BILL OF MATERIALS

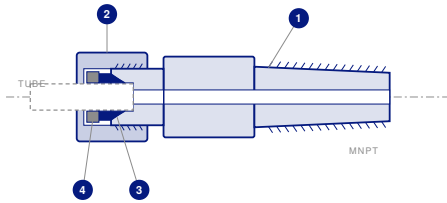


FIG. 2 | SECTIONAL ARRANGEMENT

#	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. Other tube OD and thread combinations can be supplied against enquiry.

DIMENSIONS

OD X NPT	L	B	C	Y	O	H	H1	X
1/8" x 1/8"	30.50	9.60	15.30	12.70	2.40	11.00	11.00	23.90
1/8" x 1/4"	35.60	14.30	15.30	12.70	2.40	14.00	11.00	29.00
1/4" x 1/8"	32.80	9.60	17.80	15.30	4.80	14.00	14.00	25.40
1/4" x 1/4"	37.80	14.30	17.80	15.30	4.80	14.00	14.00	30.50
1/4" x 3/8"	38.40	14.30	17.80	15.30	4.80	19.00	14.00	31.00
1/4" x 1/2"	44.70	19.10	17.80	15.30	4.80	22.00	14.00	37.40
3/8" x 1/8"	35.30	9.60	19.30	16.80	4.80	16.00	17.00	27.90
3/8" x 1/4"	39.80	14.30	19.30	16.80	7.10	16.00	17.00	32.50
3/8" x 3/8"	39.80	14.30	19.30	16.80	7.10	19.00	17.00	32.50
3/8" x 1/2"	41.20	19.10	19.30	16.80	7.10	22.00	17.00	38.90
1/2" x 1/4"	43.40	14.30	21.80	22.90	7.10	22.00	22.00	33.30
1/2" x 3/8"	43.40	14.30	21.80	22.90	9.60	22.00	22.00	33.30
1/2" x 1/2"	49.00	19.10	21.80	22.90	10.40	22.00	22.00	38.90
1/2" x 3/4"	50.50	19.10	21.80	22.90	10.40	27.00	22.00	40.40
1/2" x 1"	57.10	23.80	21.80	22.90	10.40	35.00	22.00	47.00
3/4" x 1/2"	50.50	19.10	21.80	24.40	10.40	27.00	28.50	40.40
3/4" x 3/4"	50.50	19.10	21.80	24.40	15.80	27.00	28.50	40.40
3/4" x 1"	57.10	23.80	21.80	24.40	15.80	35.00	28.50	47.00
6 mm x 1/8"	32.80	9.60	17.70	15.30	4.80	14.00	14.00	25.40
6 mm x 1/4"	37.90	14.30	17.70	15.30	4.80	14.00	14.00	30.50
6 mm x 3/8"	38.40	14.30	17.70	15.30	4.80	19.00	14.00	31.00
6 mm x 1/2"	44.70	19.10	17.70	15.30	4.80	22.00	14.00	37.30
8 mm x 1/8"	34.20	9.60	18.60	16.20	4.80	14.00	16.00	26.70
8 mm x 1/4"	38.70	14.30	18.60	16.20	6.30	14.00	16.00	31.20
8 mm x 3/8"	39.30	14.30	18.60	16.20	6.30	19.00	16.00	31.80
8 mm x 1/2"	45.60	19.10	18.60	16.20	6.30	22.00	16.00	38.10

OD X NPT	L	B	C	Y	O	H	H1	X
10 mm x 1/8"	36.30	9.60	19.50	17.20	4.80	17.00	19.00	28.70
10 mm x 1/4"	40.90	14.30	19.50	17.20	7.90	19.00	19.00	33.30
10 mm x 3/8"	40.90	14.30	19.50	17.20	7.90	19.00	19.00	33.30
10 mm x 1/2"	46.50	19.10	19.50	17.20	7.90	22.00	19.00	38.90
12 mm x 1/4"	43.40	14.30	22.00	22.80	7.10	22.00	22.00	33.30
12 mm x 3/8"	43.40	14.30	22.00	22.80	9.50	22.00	22.00	33.30
12 mm x 1/2"	49.00	19.10	22.00	22.80	9.50	22.00	22.00	38.90
12 mm x 3/4"	50.50	19.10	22.00	22.80	9.50	27.00	22.00	40.40
12 mm x 1"	57.10	23.80	22.00	22.80	9.50	35.00	22.00	47.00
14 mm x 1/4"	44.10	14.30	22.00	24.40	7.10	24.00	25.00	34.00
14 mm x 3/8"	44.10	14.30	22.00	24.40	9.50	24.00	25.00	34.00
14 mm x 1/2"	49.00	19.10	22.00	24.40	11.10	24.00	25.00	38.90
15 mm x 1/2"	49.00	19.10	22.00	24.40	11.90	24.00	25.00	38.90
16 mm x 3/8"	44.10	14.30	22.00	24.40	9.50	24.00	25.00	34.00
16 mm x 1/2"	49.00	19.10	22.00	24.40	11.90	24.00	25.00	38.90
16 mm x 3/4"	50.50	19.10	22.00	24.40	12.70	27.00	25.00	40.40
18 mm x 1/2"	50.50	19.10	22.00	24.40	11.90	27.00	30.00	40.40
18 mm x 3/4"	50.50	19.10	22.00	24.40	15.10	27.00	30.00	40.40
20 mm x 1/2"	52.30	19.10	22.00	26.00	11.90	30.00	32.00	42.20
20 mm x 3/4"	52.30	19.10	22.00	26.00	15.90	30.00	32.00	42.20
22 mm x 3/4"	52.30	19.10	22.00	26.00	15.90	30.00	32.00	42.20
22 mm x 1"	57.10	23.80	22.00	26.00	18.30	35.00	32.00	47.00
25 mm x 1/2"	57.50	19.10	26.50	31.30	11.90	35.00	38.00	45.20
25 mm x 3/4"	57.50	19.10	26.50	31.30	15.80	35.00	38.00	45.20
25 mm x 1"	62.30	23.80	26.50	31.30	21.80	35.00	38.00	50.00

First column = tube OD x 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, 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-0059
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 1"
Material	SS316L body with SS316 nut and ferrules
Order example	SW-0059 / 1/2" OD x 1/2" 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.



PRODUCT DATA SHEET

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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

- Tube connection to valves, gauges and transmitters
- Analyser and sampling systems
- Hydraulic and pneumatic control lines
- Chemical injection and process piping
- Instrument air and purge systems
- 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
- 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

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