



SS316L 6000 PSI HEX ELBOW 90°, THREADED

Hex Elbow 90° · Stainless Steel 316L · NPT Threaded · 6,000 PSI

BRAND: SW FLOW CONTROLS

SKU: SW-0253

SIZE 1/4" TO 1"

6,000 PSI / 414 BAR



FIG. 1 | SS316L 6000 PSI HEX ELBOW 90°, THREADED

PRODUCT OVERVIEW

The SWBM SS316L 6000 PSI Hex Elbow 90° is a solid body fitting with two female NPT ports at right angles, turning a high pressure threaded line through 90°.

The solid 316L stainless body gives the section needed for 6,000 PSI service with good corrosion resistance, suiting hydraulic, instrument and process systems.

Fitting type	Hex body elbow 90°
End connection	Female NPT, 2 ports
Material	Stainless steel 316L
Pressure rating	6,000 PSI (414 bar)
Thread	NPT, ASME B1.20.1
Size range	1/4" to 1" (DN8 to DN25)

TECHNICAL SPECIFICATION

Design standard	Manufacturer standard	Body	One piece, solid section
Material	Stainless steel 316L	Service	Liquids and gases
Pressure rating	6,000 PSI (414 bar)	Surface finish	Machined, bright
End connection	Female NPT, 2 ports	Marking	Material, size, thread, rating, heat no.
Size range	1/4" to 1" (DN8 to DN25)		
Threads (NPT)	ASME B1.20.1		



PRODUCT DATA SHEET

SS316L 6000 PSI HEX ELBOW 90°, THREADED

Ref. SW-0253 | Rev. 01

BILL OF MATERIALS

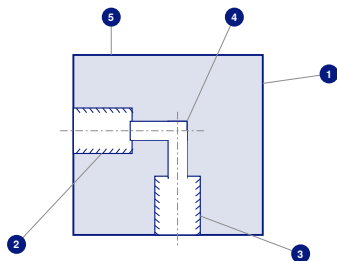


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL / DETAIL
1	Body	Stainless steel 316L, solid
2	Inlet port	Female NPT to ASME B1.20.1
3	Outlet port (90°)	Female NPT to ASME B1.20.1
4	Internal passage	Drilled bores meeting at 90°
5	Marking	Material, size, thread, rating, heat no.

One piece construction. Items 2 to 5 are integral features, listed to identify the critical dimensional and inspection points.

DIMENSIONS

SIZE	DN	THREAD	THREADS PER INCH	PIPE OD (MM)	HAND TIGHT L1 (MM)	EFFECTIVE THREAD L2 (MM)
1/4"	8	1/4" NPT	18	13.7	5.1	10.2
3/8"	10	3/8" NPT	18	17.1	6.1	10.4
1/2"	15	1/2" NPT	14	21.3	8.1	13.6
3/4"	20	3/4" NPT	14	26.7	8.6	13.9
1"	25	1" NPT	11.5	33.4	10.2	17.3

Thread data per ASME B1.20.1 (NPT) and pipe OD per ASME B36.10 for the mating pipe. Body dimensions follow the manufacturer standard and are not published here. Certified drawings, body dimensions and weights are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0253
Size	1/4", 3/8", 1/2", 3/4", 1"
Thread	NPT to ASME B1.20.1
Pressure rating	6,000 PSI (414 bar)
Certification	EN 10204 3.1 on request
Order example	SW-0253 / 1/2" / NPT / 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

SS316L 6000 PSI HEX ELBOW 90°, THREADED

Ref. SW-0253 | Rev. 01

PRESSURE AND TEMPERATURE

Rated pressure	6,000 PSI (414 bar), as listed
Service basis	Ambient temperature, non-shock
Material	Stainless steel 316L
Threads	NPT to ASME B1.20.1

The 6,000 PSI rating is taken from the product listing and applies at ambient temperature in non-shock service. The system rating is set by its lowest rated component. Derating for elevated temperature or cyclic duty must be confirmed with SWBM.

TYPICAL APPLICATIONS

- Hydraulic power units and test benches
- Chemical injection and wellhead control lines
- High pressure instrument and gauge connections
- Oil and gas, petrochemical and power plants
- Marine and offshore hydraulic systems
- Pressure test rigs and manifolds

COMPLIANCE AND QUALITY

- Stainless steel 316L body
- NPT threads to ASME B1.20.1
- Rated 6,000 PSI (414 bar), non-shock service
- Marked with material, size, thread, rating and heat number
- Material test certificate EN 10204 3.1 on request
- Pressure test and third party inspection on request

INSTALLATION AND OPERATION

- Clean and inspect the threads before assembly
- Apply PTFE tape or a high pressure thread sealant to the male thread only
- Use an anti-galling compound where permitted, stainless threads can gall if dry
- Tighten with a correctly sized spanner while holding the mating part
- Confirm every component in the assembly is rated for the working pressure
- Pressure test the completed assembly before putting it into service

COMPANY

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