SS316L 6000 PSI HEX COUPLING, THREADED

Hex Coupling · Stainless Steel 316L · NPT Threaded · 6,000 PSI

BRAND: SW FLOW CONTROLS | SKU: SW-0256 | SIZE 1/4" TO 1" | 6,000 PSI / 414 BAR

FIG. 1 | SS316L 6000 PSI HEX COUPLING, THREADED

PRODUCT OVERVIEW

The SWBM SS316L 6000 PSI Hex Coupling joins two male NPT threaded pipes or fittings of the same size in line. It is machined from hexagon stainless bar with female threads at both ends.

The hex body takes a spanner for secure make-up. It is rated 6,000 PSI and made from 316L stainless steel for corrosion resistant high pressure service.

Fitting type	**Hex coupling (socket)**
End connection	**Female NPT, 2 ends**
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**
Material	**Stainless steel 316L**
Pressure rating	**6,000 PSI (414 bar)**
End connection	**Female NPT, 2 ends**
Size range	**1/4" to 1" (DN8 to DN25)**
Threads (NPT)	**ASME B1.20.1**

Body	**One piece, solid section**
Service	**Liquids and gases**
Surface finish	**Machined, bright**
Marking	**Material, size, thread, rating, heat no.**

BILL OF MATERIALS

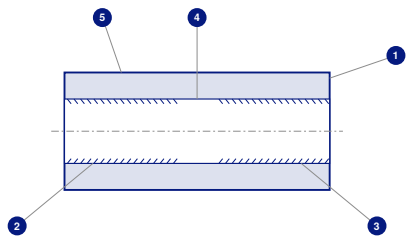

FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL / DETAIL
1	Body	Stainless steel 316L, solid
2	Threaded end (2 nos.)	Female NPT to ASME B1.20.1
3	Hex body	Spanner flats along the body
4	Internal passage	Through bore
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-0256
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-0256 / 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.

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.

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

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

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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