



SS316L 3000 PSI REDUCING HEX NIPPLE

Reducing Hex Nipple · Forged Stainless Steel ASTM A182 F316/F316L · Male NPT Both Ends to BS 3799

BRAND: SW FLOW CONTROLS

SKU: SW-0238

SIZE 1/4" X 1/8" TO 2" X 1/2"

CLASS 3000



FIG. 1 | SS316L 3000 PSI REDUCING HEX NIPPLE

PRODUCT OVERVIEW

The SWBM SS316L 3000 PSI Reducing Hex Nipple joins two female threaded fittings, valves or instruments of different sizes. It is forged from ASTM A182 F316/F316L stainless steel, solution annealed, and made to the dimensions of BS 3799 Class 3000.

Each end carries a male NPT taper thread to ASME B1.20.1, sized to its own connection. The integral hex centre takes a standard spanner, giving a compact size change with no separate bush or coupling.

Fitting type	Reducing hex nipple, forged
End connection	Male NPT, ASME B1.20.1
Material	ASTM A182 F316/F316L forged stainless steel
Pressure class	Class 3000 (3000 lb)
Standard	BS 3799
Size range	1/4" x 1/8" to 2" x 1/2"

TECHNICAL SPECIFICATION

Design standard	BS 3799	Thread standard	ASME B1.20.1 (NPT)
Material	ASTM A182 F316/F316L forged stainless steel	Heat treatment	Solution annealed
Pressure class	Class 3000	Marking	MSS SP-25
End connection	Male NPT, both ends	Surface finish	Natural forged, machined ends
Bore	Class 3000 to BS 3799	Temperature range	-196°C to +425°C
Size range	1/4" x 1/8" to 2" x 1/2"		



PRODUCT DATA SHEET

SS316L 3000 PSI REDUCING HEX NIPPLE

Ref. SW-0238 | Rev. 01

BILL OF MATERIALS

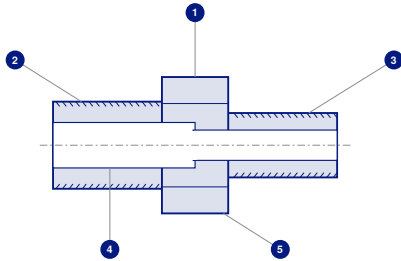


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL / DETAIL
1	Body	ASTM A182 F316/F316L, solution annealed
2	Large male end	Male NPT to ASME B1.20.1
3	Small male end	Male NPT to ASME B1.20.1
4	Waterway bore	Bore b, small size, Class 3000
5	Hex	Wrench flats, across flats A

One piece forging or bar stock machined. Items 2 to 5 are integral features, listed to identify the critical dimensional and inspection points. BSPT threads can be offered against enquiry.

DIMENSIONS

SIZE (LARGE X SMALL)	HEX A/F A (MM)	LENGTH W (MM)	THREAD E LARGE (MM)	THREAD F SMALL (MM)	HEX LENGTH C (MM)	BORE B (MM)
1/4" x 1/8"	15	31	15.5	11.0	6	5
3/8" x 1/4"	18	39	16.5	15.5	8	8
1/2" x 3/8"	22	44	20.5	16.5	8	11
1/2" x 1/4"	22	43	20.5	15.5	8	8
3/4" x 1/2"	27	50	21.5	20.5	9	14
3/4" x 3/8"	27	46	21.5	16.5	9	11
1" x 3/4"	35	56	25.5	21.5	10	19
1" x 1/2"	35	55	25.5	20.5	10	14
1.1/2" x 1"	50	67	26.5	25.5	16	24
1.1/2" x 3/4"	50	63	26.5	21.5	16	19
1.1/2" x 1/2"	50	62	26.5	20.5	16	14
2" x 1.1/2"	62	70	27.5	26.5	17	38
2" x 1"	62	70	27.5	25.5	18	24
2" x 3/4"	62	65	27.5	21.5	17	19
2" x 1/2"	62	65	27.5	20.5	18	14

A = hex across flats, W = overall length, E = thread length at large end, F = thread length at small end, C = hex length, b = bore for Class 3000. Dimensions in accordance with BS 3799. Dimensions are nominal. Weights and certified drawings are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0238
Size	Large x small, e.g. 1/2" x 1/4", 1" x 1/2", 2" x 1"
Class	Class 3000
Thread	NPT male to ASME B1.20.1. BSPT on enquiry
Certification	EN 10204 3.1 on request
Order example	SW-0238 / 1" x 1/2" / CL3000 / NPT / F316L

Stock held in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and certification requirements.



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Ref. SW-0238 | Rev. 01

PRESSURE AND TEMPERATURE

Pressure class	Class 3000 to BS 3799
Rating basis	BS 3799 Class 3000 bore and wall
Material group	ASTM A182 F316/F316L, ASME B16.5 Gr. 2.2
Temperature range	-196°C to +425°C

Class 3000 is a class designation, not a working pressure. The allowable pressure depends on size and design temperature under ASME B31.3 or the governing code. Confirm duty with SWBM before use on media or temperatures outside normal service.

TYPICAL APPLICATIONS

- Chemical and petrochemical process piping
- Offshore, marine and seawater service
- Instrument, sample and analyser lines
- Food, pharmaceutical and water treatment plant
- Hydraulic and utility systems
- Corrosive and low temperature service

COMPLIANCE AND QUALITY

- Dimensions to BS 3799, Class 3000
- Material to ASTM A182 F316/F316L, solution annealed
- Male NPT threads to ASME B1.20.1
- Marking to MSS SP-25: maker, material, class and size
- Material test certificate EN 10204 3.1 on request
- Third party inspection on request

INSTALLATION AND OPERATION

- Clean and inspect both male threads before assembly
- Apply PTFE tape or an approved thread sealant to the male threads only
- Make up hand tight, then tighten with a spanner on the hex only
- Hold the mating fitting while tightening so the first joint does not loosen
- Do not over-tighten: excessive make-up can split the female fitting
- Use an anti-galling thread sealant, stainless threads can gall if dry

COMPANY

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