



SS316L 3000 PSI REDUCING HEX BUSH

Hex Head Reducing Bush · Forged Stainless Steel ASTM A182 F316/F316L · Male x Female NPT to ASME B16.11

BRAND: SW FLOW CONTROLS

SKU: SW-0245

SIZE 1/4" TO 4" (MALE)

CLASS 3000



FIG. 1 | SS316L 3000 PSI REDUCING HEX BUSH

PRODUCT OVERVIEW

The SWBM SS316L 3000 PSI Reducing Hex Bush screws into a female NPT outlet and presents a smaller female thread. It is the most compact way to step a connection down, typically to fit a gauge, transmitter or smaller branch.

The hexagon head gives a spanner grip for tightening. It is forged from ASTM A182 F316/F316L stainless steel and made to ASME B16.11 for corrosion resistant service.

Fitting type	Reducing bush, hex head
End connection	Male x female NPT, ASME B1.20.1
Material	ASTM A182 F316/F316L forged stainless steel
Pressure class	Class 3000 (3000 lb)
Standard	ASME B16.11
Size range	1/4" to 4" male end

TECHNICAL SPECIFICATION

Design standard	ASME B16.11	Heat treatment	Solution annealed
Material	ASTM A182 F316/F316L forged stainless steel	Marking	MSS SP-25
Pressure class	Class 3000	Surface finish	Natural forged, machined ends
End connection	Male NPT	Temperature range	-196°C to +425°C
Size range	1/4" to 4" male end		
Thread standard	ASME B1.20.1 (NPT)		



PRODUCT DATA SHEET

SS316L 3000 PSI REDUCING HEX BUSH

Ref. SW-0245 | Rev. 01

BILL OF MATERIALS

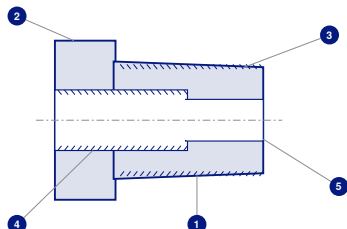


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL / DETAIL
1	Body	ASTM A182 F316/F316L, solution annealed
2	Hex head	Spanner flats, across flats F
3	Male thread (large)	Male NPT to ASME B1.20.1
4	Female thread (small)	Female NPT to ASME B1.20.1
5	Head face	Plain face, thickness G

One piece forging or bar stock machined. Items 2 to 5 are integral features, listed to identify the critical dimensional and inspection points.

DIMENSIONS

MALE SIZE	DN	MALE THREAD	THREAD LENGTH A (MM)	HEX A/F F (MM)	HEAD THICKNESS G (MM)
1/4"	8	1/4" NPT	15	16.0	5
3/8"	10	3/8" NPT	15	18.0	7
1/2"	15	1/2" NPT	17	22.0	9
3/4"	20	3/4" NPT	20	27.0	9
1"	25	1" NPT	22	35.0	10
1.1/4"	32	1.1/4" NPT	23	45.5	11
1.1/2"	40	1.1/2" NPT	25	50.0	11
2"	50	2" NPT	26	64.0	12
2.1/2"	65	2.1/2" NPT	31	76.0	14
3"	80	3" NPT	34	90.0	16
4"	100	4" NPT	36	118.5	18

A = male thread length, F = hex across flats (manufacturer standard), G = head thickness, all set by the male size. The female thread size is stated on order. Dimensions in accordance with ASME B16.11. One size reduction bushes should not be used where they may carry external loads beyond internal pressure. Weights and certified drawings are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0245
Size	Male x female, e.g. 1/2" x 1/4", 1" x 1/2", 2" x 1"
Class	Class 3000
Thread	NPT to ASME B1.20.1. BSPT on enquiry
Certification	EN 10204 3.1 on request
Order example	SW-0245 / 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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PRESSURE AND TEMPERATURE

Pressure class	Class 3000 to ASME B16.11
Rating basis	As listed, threaded service
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 equals that of the matching pipe schedule, 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 and tolerances to ASME B16.11
- 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
- Supplied under brand SW Flow Controls

INSTALLATION AND OPERATION

- Clean and inspect the male and female threads before assembly
- Apply PTFE tape or an approved sealant to the male thread only
- Use an anti-galling thread sealant, stainless threads can gall if dry
- Tighten with a correctly sized spanner on the hex only
- Do not over-tighten: excessive make-up can split the female fitting
- Pressure test the assembly before putting it into service

COMPANY

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