



SS316L 3000 PSI REDUCING COUPLING, THREADED

Reducing Coupling / Socket · Forged Stainless Steel ASTM A182 F316/F316L · Female NPT Ends

BRAND: SW FLOW CONTROLS

SKU: SW-0234

SIZE 3/8" X 1/4" TO 4" X 3"

CLASS 3000



FIG. 1 | SS316L 3000 PSI REDUCING COUPLING, THREADED

PRODUCT OVERVIEW

The SWBM SS316L 3000 PSI Threaded Reducing Coupling joins two threaded pipes of different diameter in line, without welding. It is forged from ASTM A182 F316/F316L stainless steel, solution annealed, and machined to ASME B16.11 Class 3000 practice.

Both ends carry female NPT taper threads to ASME B1.20.1, each sized to its own pipe. The coupling is used for size changes in process, instrument and utility lines, and can be seal welded where the piping specification requires it.

Fitting type	Reducing coupling, forged
End connection	Female NPT, ASME B1.20.1
Material	ASTM A182 F316/F316L forged stainless steel
Pressure class	Class 3000 (3000 lb)
Size range	3/8" x 1/4" to 4" x 3"

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	Female NPT, 2 ends	Temperature range	-196°C to +425°C
Size range	3/8" x 1/4" to 4" x 3"		
Thread standard	ASME B1.20.1 (NPT)		



PRODUCT DATA SHEET

SS316L 3000 PSI REDUCING COUPLING, THREADED

Ref. SW-0234 | Rev. 01

BILL OF MATERIALS

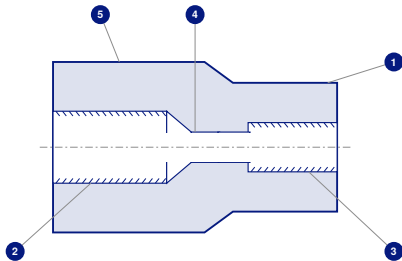


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL / DETAIL
1	Body	ASTM A182 F316/F316L, solution annealed
2	Large end	Female NPT to ASME B1.20.1
3	Small end	Female NPT to ASME B1.20.1
4	Waterway bore	Through bore, small size
5	Identification marking	Die stamped to MSS SP-25

One piece closed die forging. 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)	LARGE THREAD	SMALL THREAD	THREAD L2 LARGE / SMALL (MM)	LENGTH W (MM)	OD D (MM)
3/8" x 1/4"	3/8" NPT	1/4" NPT	12.4 / 11.4	38	22
1/2" x 1/4"	1/2" NPT	1/4" NPT	14.9 / 11.4	48	28
1/2" x 3/8"	1/2" NPT	3/8" NPT	14.9 / 12.4	48	28
3/4" x 1/2"	3/4" NPT	1/2" NPT	16.8 / 14.9	51	35
1" x 1/2"	1" NPT	1/2" NPT	19.6 / 14.9	60	44
1" x 3/4"	1" NPT	3/4" NPT	19.6 / 16.8	60	44
1.1/4" x 1"	1.1/4" NPT	1" NPT	21.9 / 19.6	67	57
1.1/2" x 1"	1.1/2" NPT	1" NPT	22.7 / 19.6	79	64
2" x 1"	2" NPT	1" NPT	23.9 / 19.6	86	76
2" x 1.1/2"	2" NPT	1.1/2" NPT	23.9 / 22.7	86	76
3" x 2"	3" NPT	2" NPT	32.8 / 23.9	108	108
4" x 3"	4" NPT	3" NPT	34.6 / 32.8	121	140

L2 = length of useful thread to ASME B1.20.1, each to its own size. Length W and outside diameter D are taken at the large size, following the catalogue reducer rule. Dimensions in accordance with ASME B16.11 Class 3000. Dimensions are nominal. Other combinations, weights and certified drawings are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0234
Size	Large x small, e.g. 1/2" x 3/8", 1" x 1/2", 4" x 3"
Class	Class 3000
Thread	NPT female to ASME B1.20.1. BSPT on enquiry
Certification	EN 10204 3.1 on request
Order example	SW-0234 / 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.



PRESSURE AND TEMPERATURE

Pressure class	Class 3000 to ASME B16.11
Rating basis	Equal to Sch 160 seamless pipe
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
- Marking to MSS SP-25: maker, material, class and size
- Material test certificate EN 10204 3.1 on request
- Hydrostatic test and third party inspection on request
- Supplied under brand SW Flow Controls

INSTALLATION AND OPERATION

- Clean and inspect male and female threads before assembly
- Apply PTFE tape or an approved thread sealant to the male thread only
- Make up hand tight, then tighten with a wrench on the fitting body
- Do not over-tighten: excessive make-up can split the female end
- Use an anti-galling thread sealant, stainless threads can gall if dry
- Support the line so threaded joints do not carry bending loads

COMPANY

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