SS316L 3000 PSI HALF COUPLING, THREADED

Half Coupling · Forged Stainless Steel ASTM A182 F316/F316L · Female NPT to ASME B16.11

BRAND: SW FLOW CONTROLS | SKU: SW-0236 | SIZE 1/8" TO 4" | CLASS 3000

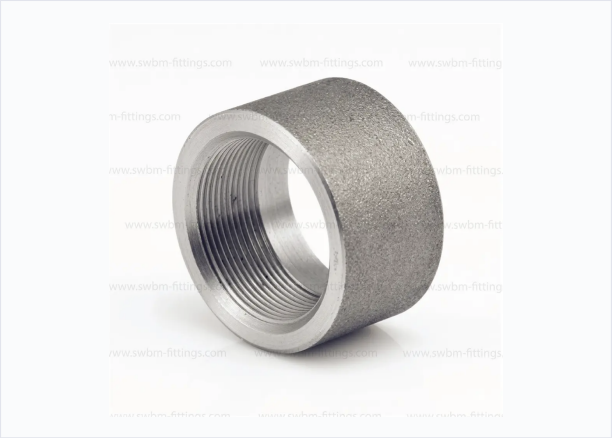


FIG. 1 | SS316L 3000 PSI HALF COUPLING, THREADED

PRODUCT OVERVIEW

The SWBM SS316L 3000 PSI Threaded Half Coupling provides a female threaded branch or instrument connection on a stainless pipe, vessel or tank. It is forged from ASTM A182 F316/F316L stainless steel, solution annealed, and machined to ASME B16.11 Class 3000.

One end carries a female NPT taper thread to ASME B1.20.1 and the other is welded to the run pipe or shell, a compact way to add a gauge, drain, vent or sample point.

Fitting type	**Half coupling, forged**
End connection	**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	**1/8" to 4" (DN6 to DN100)**

TECHNICAL SPECIFICATION

Design standard	**ASME B16.11**
Material	**ASTM A182 F316/F316L forged stainless steel**
Pressure class	**Class 3000**
End connection	**Female NPT, ASME B1.20.1**
Size range	**1/8" to 4" (DN6 to DN100)**
Thread standard	**ASME B1.20.1 (NPT)**

Heat treatment	**Solution annealed**
Marking	**MSS SP-25**
Surface finish	**Natural forged, machined ends**
Temperature range	**-196°C to +425°C**

BILL OF MATERIALS

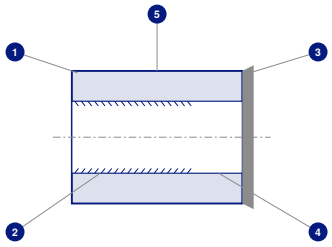


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL / DETAIL
1	Body	ASTM A182 F316/F316L, solution annealed
2	Threaded end	Female NPT to ASME B1.20.1
3	Weld end	Plain face for welding to pipe or vessel
4	Waterway bore	Through bore to the run
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	DN	THREAD	THREAD L2 (MM)	LENGTH W (MM)	OD D (MM)
1/8"	6	1/8" NPT	8.8	16.0	16
1/4"	8	1/4" NPT	11.4	17.5	19
3/8"	10	3/8" NPT	12.4	19.0	22
1/2"	15	1/2" NPT	14.9	24.0	28
3/4"	20	3/4" NPT	16.8	25.5	35
1"	25	1" NPT	19.6	30.0	44
1.1/4"	32	1.1/4" NPT	21.9	33.5	57
1.1/2"	40	1.1/2" NPT	22.7	39.5	64
2"	50	2" NPT	23.9	43.0	76
2.1/2"	65	2.1/2" NPT	30.5	46.0	92
3"	80	3" NPT	32.8	54.0	108
4"	100	4" NPT	34.6	60.5	140

L2 = length of useful thread to ASME B1.20.1, W = overall length, D = outside diameter. Dimensions in accordance with ASME B16.11 Class 3000. Dimensions are nominal. Weights and certified drawings are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0236
Size	1/8", 1/4", 3/8", 1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"
Class	Class 3000
Thread	NPT female to ASME B1.20.1. BSPT on enquiry
Certification	EN 10204 3.1 on request
Order example	**SW-0236 / 1" / 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.

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

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

INSTALLATION AND OPERATION

- Mark the branch position and cut the hole in the run pipe or shell to the bore size, then deburr
- Set the half coupling square to the run and weld to ASME B31.3 with a qualified stainless procedure
- Keep weld spatter out of the thread and let the weld cool fully
- Apply PTFE tape or an approved sealant to the male thread only
- Make up hand tight, then tighten on the mating part
- Inspect the attachment weld to the requirements of the piping code

COMPANY

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