



SS316L 3000 PSI REDUCING COUPLING, SOCKET WELD

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

BRAND: SW FLOW CONTROLS

SKU: SW-0235

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

CLASS 3000



FIG. 1 | SS316L 3000 PSI REDUCING COUPLING, SOCKET WELD

PRODUCT OVERVIEW

The SWBM SS316L 3000 PSI Socket Weld Reducing Coupling joins two pipes of different diameter in line. It is forged from ASTM A182 F316/F316L stainless steel, solution annealed, and machined with sockets to ASME B16.11 Class 3000.

Each end is counterbored to receive plain end pipe for a fillet welded joint, with the waterway bore matched to the smaller pipe. The compact in-line body suits size changes in high pressure process and utility lines where space is limited.

Fitting type	Reducing coupling, forged
End connection	Socket weld, ASME B16.11
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	Socket weld, 2 ends	Temperature range	-196°C to +425°C
Size range	3/8" x 1/4" to 4" x 3"		
Socket dimensions	ASME B16.11		



PRODUCT DATA SHEET

SS316L 3000 PSI REDUCING COUPLING, SOCKET WELD

Ref. SW-0235 | Rev. 01

BILL OF MATERIALS

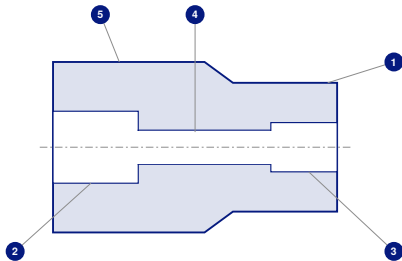


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL / DETAIL
1	Body	ASTM A182 F316/F316L, solution annealed
2	Large end socket	Bored to ASME B16.11, large size
3	Small end socket	Bored to ASME B16.11, small size
4	Waterway bore	Bore D, 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.

DIMENSIONS

SIZE (LARGE X SMALL)	SOCKET BORE B1 / B2 (MM)	SOCKET WALL C (MM)	BORE D (MM)	SOCKET DEPTH J (MM)	E (MM)	LENGTH L* (MM)
3/8" x 1/4"	17.6 / 14.2	4.05	9.3	10.5	6.5	27.5
1/2" x 1/4"	21.8 / 14.2	4.70	9.3	12.5	9.5	34.5
1/2" x 3/8"	21.8 / 17.6	4.70	12.6	12.5	9.5	34.5
3/4" x 1/2"	27.2 / 21.8	4.90	15.8	14.0	9.5	37.5
1" x 1/2"	33.9 / 21.8	5.70	15.8	15.0	12.5	42.5
1" x 3/4"	33.9 / 27.2	5.70	21.0	15.0	12.5	42.5
1.1/4" x 1"	42.7 / 33.9	6.10	26.7	17.0	12.5	46.5
1.1/2" x 1"	48.8 / 33.9	6.40	26.7	17.5	12.5	47.5
2" x 1"	61.2 / 33.9	6.95	26.7	22.0	19.0	63.0
2" x 1.1/2"	61.2 / 48.8	6.95	40.9	22.0	19.0	63.0
3" x 2"	89.8 / 61.2	9.55	52.5	22.0	19.0	63.0
4" x 3"	115.2 / 89.8	10.70	78.0	22.0	19.0	63.0

B = socket bore, each to its own size. C, J (socket depth) and E (distance between socket bottoms) follow the large size, D (bore) follows the small size. *L = 2J + E, calculated. 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-0235
Size	Large x small, e.g. 1/2" x 3/8", 1" x 1/2", 4" x 3"
Class	Class 3000
End connection	Socket weld to ASME B16.11
Certification	EN 10204 3.1 on request
Order example	SW-0235 / 1" x 1/2" / CL3000 / SW / 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 80 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

- Cut the pipe square and deburr before fit-up
- Insert the pipe fully, then withdraw about 1.6 mm to leave the bottoming gap before welding
- Fillet weld size and procedure to ASME B31.3 with a qualified welder
- Keep the socket and pipe free of oil, paint and scale in the weld zone
- Do not use socket weld joints where crevice corrosion is a concern
- Inspect welds visually or by MT/PT as required by the piping code

COMPANY

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