



CS A105N 3000 PSI REDUCING COUPLING, THREADED

Reducing Coupling / Socket · Forged Carbon Steel ASTM A105N · Female NPT Ends

BRAND: BOTHWELL

SKU: SW-0186

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

CLASS 3000



FIG. 1 | CS A105N 3000 PSI REDUCING COUPLING, THREADED

PRODUCT OVERVIEW

The Bothwell CS A105N 3000 PSI Threaded Reducing Coupling joins two threaded pipes of different diameter in line, without welding. It is forged from ASTM A105N carbon steel, normalized, 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 A105N forged carbon 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	Normalized (A105N)
Material	ASTM A105N forged carbon steel	Marking	MSS SP-25
Pressure class	Class 3000	Surface finish	Natural forged, machined ends
End connection	Female NPT, 2 ends	Temperature range	-29°C to +425°C
Size range	3/8" x 1/4" to 4" x 3"	Country of origin	Taiwan
Thread standard	ASME B1.20.1 (NPT)		



PRODUCT DATA SHEET

CS A105N 3000 PSI REDUCING COUPLING, THREADED
Ref. SW-0186 | Rev. 01

BILL OF MATERIALS

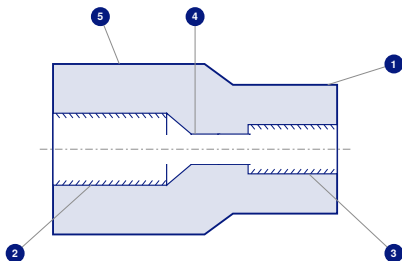


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL / DETAIL
1	Body	ASTM A105N forged carbon steel, normalized
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 from the Bothwell manufacturer catalogue, Class 3000, in accordance with ASME B16.11. Dimensions are nominal. Other combinations, weights and certified drawings are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0186
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-0186 / 1" x 1/2" / CL3000 / NPT / A105N

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 A105N, ASME B16.5 Gr. 1.1
Temperature range	-29°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

- Oil and gas production and process piping
- Petrochemical and refinery small bore lines
- Steam, condensate and boiler auxiliaries
- Compressed air, gas and hydraulic utility lines
- Marine, offshore and shipyard piping
- Instrument, vent and drain connections

COMPLIANCE AND QUALITY

- Dimensions and tolerances to ASME B16.11
- Material to ASTM A105N, normalized
- 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 Bothwell

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
- Seal weld after make-up where required by the piping specification
- Support the line so threaded joints do not carry bending loads

COMPANY

Sunel Wala Building Materials
Trading Co. LLC (SWBM)
Dubai, United Arab Emirates

SALES ENQUIRIES

info@swbm-fittings.com
Tel: +971 4 238 5652
Mobile / WhatsApp: +971 50 748 1772

ONLINE

www.swbm-fittings.com
Brand: Bothwell

The information in this data sheet is provided in good faith and is believed to be accurate at the date of issue. Dimensions, weights and ratings are nominal and may vary with the manufacturer and production batch. It remains the responsibility of the purchaser to confirm that the product is suitable for the intended service conditions. Sunel Wala Building Materials Trading Co. LLC reserves the right to amend specifications without prior notice. This document does not form part of any contract of sale.