



CS A105N 6000 PSI HALF COUPLING, THREADED

Half Coupling · Forged Carbon Steel ASTM A105N · Female NPT to ASME B16.11

BRAND: BOTHWELL	SKU: SW-0217	SIZE 1/8" TO 4"	CLASS 6000
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FIG. 1 | CS A105N 6000 PSI HALF COUPLING, THREADED

PRODUCT OVERVIEW

The Bothwell CS A105N 6000 PSI Threaded Half Coupling provides a female threaded branch or instrument connection on a pipe, vessel or tank. It is forged from ASTM A105N carbon steel, normalized, and machined to ASME B16.11 Class 6000.

One end carries a female NPT taper thread to ASME B1.20.1 and the other end is welded to the run pipe or shell. It is 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 A105N forged carbon steel
Pressure class	Class 6000 (6000 lb)
Standard	ASME B16.11
Size range	1/8" to 4" (DN6 to DN100)

TECHNICAL SPECIFICATION

Design standard	ASME B16.11	Heat treatment	Normalized (A105N)
Material	ASTM A105N forged carbon steel	Marking	MSS SP-25
Pressure class	Class 6000	Surface finish	Natural forged, machined ends
End connection	Female NPT, ASME B1.20.1	Temperature range	-29°C to +425°C
Size range	1/8" to 4" (DN6 to DN100)	Country of origin	Taiwan
Thread standard	ASME B1.20.1 (NPT)		



PRODUCT DATA SHEET

CS A105N 6000 PSI HALF COUPLING, THREADED

Ref. SW-0217 | Rev. 01

BILL OF MATERIALS

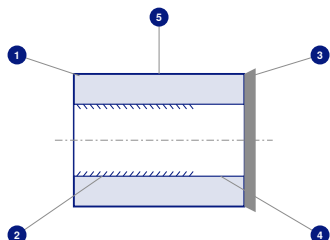


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL / DETAIL
1	Body	ASTM A105N forged carbon steel, normalized
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 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	22
1/4"	8	1/4" NPT	11.4	17.5	25
3/8"	10	3/8" NPT	12.4	19.0	32
1/2"	15	1/2" NPT	14.9	24.0	38
3/4"	20	3/4" NPT	16.8	25.5	44
1"	25	1" NPT	19.6	30.0	57
1.1/4"	32	1.1/4" NPT	21.9	33.5	64
1.1/2"	40	1.1/2" NPT	22.7	39.5	76
2"	50	2" NPT	23.9	43.0	92
2.1/2"	65	2.1/2" NPT	30.5	46.0	108
3"	80	3" NPT	32.8	54.0	127
4"	100	4" NPT	34.6	60.5	159

L2 = length of useful thread to ASME B1.20.1, W = overall length, D = outside diameter. Dimensions from the Bothwell manufacturer catalogue, Class 6000, in accordance with ASME B16.11. Dimensions are nominal. Weights and certified drawings are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0217
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 6000
Thread	NPT female to ASME B1.20.1. BSPT on enquiry
Certification	EN 10204 3.1 on request
Order example	SW-0217 / 1" / CL6000 / 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.



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PRESSURE AND TEMPERATURE

Pressure class	Class 3000 to ASME B16.11
Rating basis	Equal to XXS 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

- 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 fillet or groove weld to ASME B31.3 with a qualified 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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