



CS A105N 6000 PSI CAP, SOCKET WELD

End Cap · Forged Carbon Steel ASTM A105N · Socket Weld Ends to ASME B16.11

BRAND: BOTHWELL	SKU: SW-0226	SIZE 1/8" TO 2"	CLASS 6000
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FIG. 1 | CS A105N 6000 PSI CAP, SOCKET WELD

PRODUCT OVERVIEW

The Bothwell CS A105N 6000 PSI Socket Weld Cap closes the end of a plain end pipe with a permanent welded joint. It is forged from ASTM A105N carbon steel, normalized, and machined to ASME B16.11 Class 6000.

The pipe enters the machined socket and is fillet welded outside, giving a closure with no thread to leak. It suits dead legs, future tie-in points and test connections in high pressure lines.

Fitting type	Cap, forged
End connection	Socket weld, ASME B16.11
Material	ASTM A105N forged carbon steel
Pressure class	Class 6000 (6000 lb)
Standard	ASME B16.11
Size range	1/8" to 2" (DN6 to DN50)

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	Socket weld, ASME B16.11	Temperature range	-29°C to +425°C
Size range	1/8" to 2" (DN6 to DN50)	Country of origin	Taiwan
Socket dimensions	ASME B16.11		



PRODUCT DATA SHEET

CS A105N 6000 PSI CAP, SOCKET WELD
Ref. SW-0226 | Rev. 01

BILL OF MATERIALS

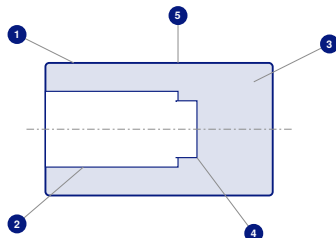


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL / DETAIL
1	Body	ASTM A105N forged carbon steel, normalized
2	Socket	Bored to ASME B16.11, Class 6000
3	End wall (crown)	Solid, thickness K
4	Socket shoulder	Stop for the 1.6 mm expansion gap
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	DN	SOCKET BORE B (MM)	SOCKET WALL C (MM)	END WALL K (MM)	SOCKET DEPTH J (MM)
1/8"	6	10.8	4.00	9.5	10.5
1/4"	8	14.2	4.60	10.5	10.5
3/8"	10	17.6	5.05	12.5	10.5
1/2"	15	21.8	6.00	14.5	10.5
3/4"	20	27.2	7.00	13.0	15.0
1"	25	33.9	7.95	16.0	15.0
1.1/4"	32	42.7	7.95	18.0	15.0
1.1/2"	40	48.8	8.95	23.0	15.0
2"	50	61.2	10.95	22.0	19.0

B = socket bore, C = socket wall, K = end wall thickness, J = socket depth. 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-0226
Size	1/8", 1/4", 3/8", 1/2", 3/4", 1", 1.1/4", 1.1/2", 2"
Class	Class 6000
End connection	Socket weld to ASME B16.11
Certification	EN 10204 3.1 on request
Order example	SW-0226 / 1" / CL6000 / SW / 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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CS A105N 6000 PSI CAP, SOCKET WELD

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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

- 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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