



CS A105N 3000 PSI REDUCING TEE, SOCKET WELD

Reducing Tee · Forged Carbon Steel ASTM A105N · Socket Weld Ends to ASME B16.11

BRAND: BOTHWELL	SKU: SW-0195	SIZE 3/8" X 1/4" TO 4" X 3"	CLASS 3000
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FIG. 1 | CS A105N 3000 PSI REDUCING TEE, SOCKET WELD

PRODUCT OVERVIEW

The Bothwell CS A105N 3000 PSI Socket Weld Reducing Tee takes a smaller 90° branch off a larger run, in a single forging with no welded reinforcement. It is forged from ASTM A105N carbon steel, normalized, and machined to ASME B16.11 Class 3000.

The run and branch sockets are bored to suit their own pipe sizes and receive plain end pipe for fillet welded joints. Centre to bottom of socket follows the run size, keeping line lengths consistent with equal tees of the same run.

Fitting type	Reducing tee, forged
End connection	Socket weld, ASME B16.11
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	Socket weld, 3 ends	Temperature range	-29°C to +425°C
Size range	3/8" x 1/4" to 4" x 3"	Country of origin	Taiwan
Socket dimensions	ASME B16.11		



PRODUCT DATA SHEET

CS A105N 3000 PSI REDUCING TEE, SOCKET WELD

Ref. SW-0195 | Rev. 01

BILL OF MATERIALS

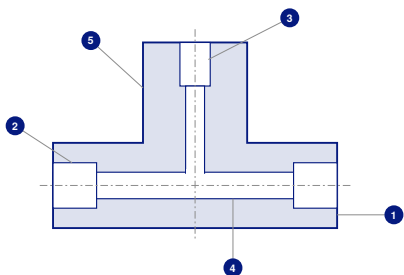


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL / DETAIL
1	Body	ASTM A105N forged carbon steel, normalized
2	Run socket (2 nos.)	Bored to ASME B16.11, run size
3	Branch socket (reduced)	Bored to ASME B16.11, branch size
4	Waterway bore	Bore D to ASME B16.11
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 (RUN X BRANCH)	SOCKET BORE B1 / B2 (MM)	SOCKET DEPTH J1 / J2 (MM)	SOCKET WALL C (MM)	RUN BORE D (MM)	A (MM)
3/8" x 1/4"	17.6 / 14.2	10.5 / 10.5	4.05	12.6	13.5
1/2" x 1/4"	21.8 / 14.2	12.5 / 10.5	4.70	15.8	15.5
1/2" x 3/8"	21.8 / 17.6	12.5 / 10.5	4.70	15.8	15.5
3/4" x 1/2"	27.2 / 21.8	14.0 / 12.5	4.90	21.0	19.0
1" x 1/2"	33.9 / 21.8	15.0 / 12.5	5.70	26.7	22.5
1" x 3/4"	33.9 / 27.2	15.0 / 14.0	5.70	26.7	22.5
1.1/4" x 1"	42.7 / 33.9	17.0 / 15.0	6.10	35.1	27.0
1.1/2" x 1"	48.8 / 33.9	17.5 / 15.0	6.40	40.9	32.0
2" x 1"	61.2 / 33.9	22.0 / 15.0	6.95	52.5	38.0
2" x 1.1/2"	61.2 / 48.8	22.0 / 17.5	6.95	52.5	38.0
3" x 2"	89.8 / 61.2	28.0 / 22.0	9.55	78.0	57.0
4" x 3"	115.2 / 89.8	38.5 / 28.0	10.70	102.3	66.5

B = socket bore, J = socket depth, each to its own size. C, D and A (centre to bottom of socket) are taken at the run size, as for the largest opening. 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-0195
Size	Run x branch, e.g. 1" x 1/2", 2" x 1", 4" x 3"
Class	Class 3000
End connection	Socket weld to ASME B16.11
Certification	EN 10204 3.1 on request
Order example	SW-0195 / 2" x 1" / CL3000 / 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 3000 PSI REDUCING TEE, SOCKET WELD
Ref. SW-0195 | Rev. 01

PRESSURE AND TEMPERATURE

Pressure class	Class 3000 to ASME B16.11
Rating basis	Equal to Sch 80 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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