CS A105N 3000 PSI THREADOLET

Threaded Branch Outlet · Forged Carbon Steel ASTM A105N · MSS SP-97

BRAND: BOTHWELL | SKU: SW-0206 | OUTLET 1/8" TO 4" | CLASS 3000



FIG. 1 | CS A105N 3000 PSI THREADOLET

PRODUCT OVERVIEW

The Bothwell CS A105N 3000 PSI Threadolet is an integrally reinforced branch outlet fitting that provides a female threaded branch from a larger run pipe. It is forged from ASTM A105N carbon steel, normalized, and made to the design and dimensions of MSS SP-97 Class 3000.

The contoured base is welded to the run pipe, and the outlet carries a female NPT taper thread to ASME B1.20.1 for valves, instruments or branch pipe. The integral reinforcement removes the need for a reinforcing pad.

Fitting type	**Branch outlet (olet), forged**
Outlet connection	**Female NPT, ASME B1.20.1**
Run connection	**Butt weld, contoured base**
Material	**ASTM A105N forged carbon steel**
Pressure class	**Class 3000 (3000 lb)**
Outlet size range	**1/8" to 4" (DN6 to DN100)**

TECHNICAL SPECIFICATION

Design standard	**MSS SP-97**
Material	**ASTM A105N forged carbon steel**
Pressure class	**Class 3000**
End connection	**NPT outlet, BW base to run**
Size range	**1/8" to 4" (DN6 to DN100)**
Thread standard	**ASME B1.20.1 (NPT)**

Heat treatment	**Normalized (A105N)**
Marking	**MSS SP-25**
Surface finish	**Natural forged, machined ends**
Temperature range	**-29°C to +425°C**
Country of origin	**Taiwan**

BILL OF MATERIALS

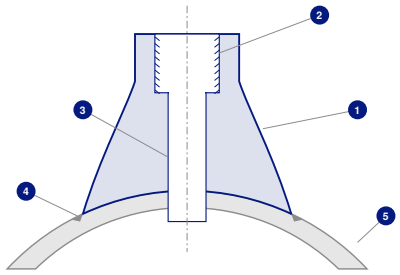


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL / DETAIL
1	Body	ASTM A105N forged carbon steel, normalized
2	Outlet thread	Female NPT to ASME B1.20.1
3	Waterway bore	Through bore to run pipe
4	Contoured base and weld bevel	Profiled to suit the run pipe OD
5	Run pipe (by others)	Not supplied, shown for reference

One piece forging. Items 2 to 4 are integral features. The base is contoured for a specific run pipe size, so the run size must be stated on order. BSPT outlet threads can be offered against enquiry.

DIMENSIONS

OUTLET	DN	THREAD	HEIGHT A (MM)	BASE OPENING C (MM)	THREAD L2 (MM)	TOP OD F (MM)
1/8"	6	1/8" NPT	19.0	13.7	8.8	22.0
1/4"	8	1/4" NPT	19.0	13.7	11.4	22.0
3/8"	10	3/8" NPT	20.6	17.1	12.4	25.9
1/2"	15	1/2" NPT	25.4	21.3	14.9	31.4
3/4"	20	3/4" NPT	26.9	26.7	16.8	37.1
1"	25	1" NPT	33.3	33.4	19.6	45.5
1.1/4"	32	1.1/4" NPT	33.3	42.2	21.9	57.0
1.1/2"	40	1.1/2" NPT	35.0	48.3	22.7	64.0
2"	50	2" NPT	38.1	60.3	23.9	76.0
2.1/2"	65	2.1/2" NPT	46.0	73.0	30.5	92.0
3"	80	3" NPT	50.8	88.9	32.8	109.2
4"	100	4" NPT	57.2	114.3	34.6	140.0

Reducing type (outlet smaller than run). A = height from run pipe to outlet face, C = opening at base, L2 = length of useful thread to ASME B1.20.1, F = outside diameter at top. Dimensions from the Bothwell manufacturer catalogue, Class 3000, design to MSS SP-97. Outlets 4" and smaller fit a range of run sizes and are marked accordingly. Size on size, weights and certified drawings are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0206
Outlet size	1/8", 1/4", 3/8", 1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"
Run pipe size	State run NPS, base is contoured to suit
Class	Class 3000
Certification	EN 10204 3.1 on request
Order example	**SW-0206 / 1" x 6" / 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 MSS SP-97**
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

- Branch take-offs from process and utility headers
- Instrument, pressure and temperature connections
- Vent and drain points on larger lines
- Oil and gas, petrochemical and refinery piping
- Steam and condensate distribution headers
- Marine and offshore piping systems

COMPLIANCE AND QUALITY

- Design and dimensions to MSS SP-97
- Material to ASTM A105N, normalized
- Base contoured to the specified run pipe size
- Marking to MSS SP-25: maker, material, class and size
- Material test certificate EN 10204 3.1 on request
- Third party inspection on request

INSTALLATION AND OPERATION

- Mark the branch centre and cut the run pipe hole to the olet bore, then deburr
- Set the olet on the run with a root gap of about 1.6 mm using spacers
- Full penetration weld the base to the run pipe to ASME B31.3 with a qualified procedure
- Let the weld cool fully before making up the threaded connection
- Apply PTFE tape or sealant to the male thread only and tighten on the mating part
- Protect the outlet thread from weld spatter during installation

COMPANY

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