CS A105N 3000 PSI COUPLET

Branch Outlet Couplet · Forged Carbon Steel · Class 3000

SKU: SW-0208 | BRAND: BOTHWELL | CLASS 3000 | BRANCH OUTLET / NPT OR SW



FIG. 1 | CS A105N CLASS 3000 COUPLET, BRANCH OUTLET

PRODUCT OVERVIEW

The SWBM CS A105N Class 3000 Couplet forms a reinforced small bore branch off a run pipe. The base is contoured to the outside of the run so the fitting sits down onto the pipe and is welded all round, which puts the reinforcement where the branch weakens the header.

The outlet is threaded or socket weld to suit the branch. It is the standard connection for instrument tappings, vents, drains and sample points on process headers.

Fitting type	**Branch outlet couplet**
Function	**Reinforced small bore branch off a run pipe**
Material	**ASTM A105N forged steel**
End connection	**Contoured base, threaded or socket outlet**
Standard	**ASME B16.11**
Size range	**1/8" to 4" (DN6 to DN100)**

TECHNICAL SPECIFICATION

Material	**ASTM A105N carbon steel**
Manufacture	**Forged and normalised**
Dimensional standard	**ASME B16.11**
Pressure class	**Class 3000**
Ends	**Contoured base, threaded or socket outlet**
Threads	**ASME B1.20.1 NPT**

Finish	**Black, oiled for transport**
Marking	**Grade, class, size and heat number**
Temperature range	**-29°C to +425°C**
Country of origin	**Taiwan**
Certification	**EN 10204 3.1 on request**

BILL OF MATERIALS

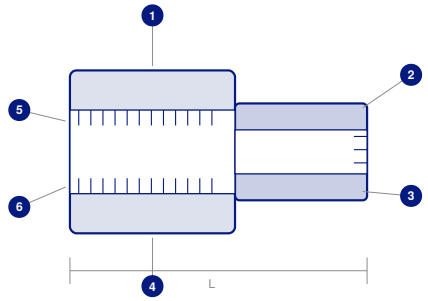


FIG. 2 | SECTIONAL ARRANGEMENT

#	FEATURE	DESCRIPTION
1	Body	ASTM A105N, forged one piece
2	Contoured base	Machined to the run pipe outside diameter
3	Reinforcement	Integral pad replacing the metal cut from the run
4	Outlet	NPT threaded or socket weld, to order
5	Waterway	Machined bore through the outlet
6	Marking	Grade, class, size and heat number

One piece forged fitting. The base is welded all round to the run pipe, so the weld procedure must suit both the fitting and the header material.

DIMENSIONS AND WEIGHTS

SIZE	DN	THREAD / SOCKET	PIPE OD (MM)
1/8"	6	1/8" NPT	10.3
1/4"	8	1/4" NPT	13.7
3/8"	10	3/8" NPT	17.1
1/2"	15	1/2" NPT	21.3
3/4"	20	3/4" NPT	26.7
1"	25	1" NPT	33.4
1.1/4"	32	1.1/4" NPT	42.2
1.1/2"	40	1.1/2" NPT	48.3
2"	50	2" NPT	60.3
2.1/2"	65	2.1/2" NPT	73.0
3"	80	3" NPT	88.9
4"	100	4" NPT	114.3

The couplet is ordered by outlet size and by the run pipe size the base is contoured to, so state both on the enquiry. Outlet type is threaded or socket weld to order. Pipe outside diameters are to ASME B36.10M and are the sizes the socket or thread is made to suit. Body dimensions, socket depth and minimum wall are to ASME B16.11 and are issued on certified drawings against order. Masses are not published for this item.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0208
Size	1/8", 1/4", 3/8", 1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"
Thread	NPT to ASME B1.20.1
Material	ASTM A105N forged carbon steel
Order example	**SW-0208 / 1/2" x 4" RUN / NPT / CLASS 3000**

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	**To ASME B16.11**
Basis of the class	**A class designation, not a psi rating**
Temperature range	**-29°C to +425°C for A105N**
Rating	**Take the allowable from the design code**

ASME B16.11 class designations are not cold working pressures in psi. The allowable pressure at temperature must be taken from the applicable design code for A105N. Confirm the duty with SWBM before use above 425°C or below -29°C, and for sour service.

TYPICAL APPLICATIONS

- Oil and gas gathering and process piping
- Refinery and petrochemical plant
- Steam, condensate and boiler house piping
- Instrument tappings and small bore branch connections
- Hydraulic and high pressure utility lines
- Power generation and industrial process plant

COMPLIANCE AND QUALITY

- Manufactured to ASME B16.11
- Material ASTM A105N, normalised carbon steel forging
- NPT threads to ASME B1.20.1
- Marked with grade, class, size and heat number
- Material test certificate EN 10204 3.1 on request
- Suitable for ASME B31.1 and B31.3 piping systems
- NACE MR0175 compliant material against enquiry

INSTALLATION AND OPERATION

- Check the thread form and class against the mating component before assembly
- Apply an approved thread sealant or PTFE tape to the male thread only
- Make up to the correct engagement, do not rely on sealant to bridge a slack fit
- Support small bore branch connections against vibration and cantilever load
- Do not exceed the allowable stress for A105N at the design temperature
- Hydrotest the joint in line with the applicable design code

COMPANY

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