

CS A105N 3000 PSI HEX NIPPLE

Hex Nipple · Forged Carbon Steel ASTM A105N · Male NPT Both Ends to BS 3799

BRAND: BOTHWELL

SKU: SW-0190

SIZE 1/8" TO 2"

CLASS 3000



FIG. 1 | CS A105N 3000 PSI HEX NIPPLE

PRODUCT OVERVIEW

The Bothwell CS A105N 3000 PSI Hex Nipple joins two female threaded fittings, valves or instruments of the same size. It is forged from ASTM A105N carbon steel, normalized, and made to the dimensions of BS 3799 Class 3000.

Both ends carry male NPT taper threads to ASME B1.20.1. The integral hex centre takes a standard spanner, so the nipple can be made up tightly without gripping the threads, giving a short, rigid connection in high pressure lines.

Fitting type	Hex nipple, forged
End connection	Male NPT, ASME B1.20.1
Material	ASTM A105N forged carbon steel
Pressure class	Class 3000 (3000 lb)
Standard	BS 3799
Size range	1/8" to 2" (DN6 to DN50)

TECHNICAL SPECIFICATION

Design standard	BS 3799	Thread standard	ASME B1.20.1 (NPT)
Material	ASTM A105N forged carbon steel	Heat treatment	Normalized (A105N)
Pressure class	Class 3000	Marking	MSS SP-25
End connection	Male NPT, both ends	Surface finish	Natural forged, machined ends
Bore	Class 3000 to BS 3799	Temperature range	-29°C to +425°C
Size range	1/8" to 2" (DN6 to DN50)	Country of origin	Taiwan



PRODUCT DATA SHEET

CS A105N 3000 PSI HEX NIPPLE

Ref. SW-0190 | Rev. 01

BILL OF MATERIALS

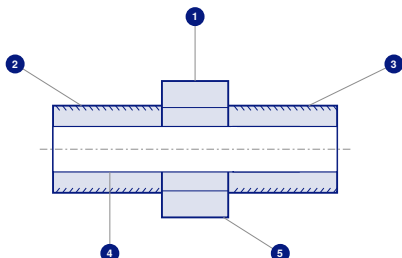


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL / DETAIL
1	Body	ASTM A105N forged carbon steel, normalized
2	Male end	Male NPT to ASME B1.20.1
3	Opposite male end	Male NPT to ASME B1.20.1
4	Waterway bore	Bore b, Class 3000 to BS 3799
5	Hex	Wrench flats, across flats A

One piece forging or bar stock machined. 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	HEX A/F A (MM)	LENGTH W (MM)	THREAD LENGTH E (MM)	HEX LENGTH C (MM)	BORE B (MM)
1/8"	6	1/8" NPT	11	26	11.0	6	5
1/4"	8	1/4" NPT	15	36	15.5	6	8
3/8"	10	3/8" NPT	18	40	16.5	8	11
1/2"	15	1/2" NPT	22	48	20.5	8	14
3/4"	20	3/4" NPT	27	52	21.5	10	19
1"	25	1" NPT	35	60	25.5	10	24
1.1/2"	40	1.1/2" NPT	50	68	26.5	16	38
2"	50	2" NPT	62	71	27.5	17	49

A = hex across flats, W = overall length, E = thread length each end, C = hex length, b = bore for Class 3000. Dimensions from the Bothwell manufacturer catalogue, in accordance with BS 3799. Dimensions are nominal. Weights and certified drawings are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0190
Size	1/8", 1/4", 3/8", 1/2", 3/4", 1", 1.1/2", 2"
Class	Class 3000
Thread	NPT male to ASME B1.20.1. BSPT on enquiry
Certification	EN 10204 3.1 on request
Order example	SW-0190 / 1" / 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.



PRODUCT DATA SHEET

CS A105N 3000 PSI HEX NIPPLE

Ref. SW-0190 | Rev. 01

PRESSURE AND TEMPERATURE

Pressure class	Class 3000 to BS 3799
Rating basis	BS 3799 Class 3000 bore and wall
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 depends on 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 to BS 3799, Class 3000
- Material to ASTM A105N, normalized
- Male NPT threads to ASME B1.20.1
- 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

- Clean and inspect both male threads before assembly
- Apply PTFE tape or an approved thread sealant to the male threads only
- Make up hand tight, then tighten with a spanner on the hex only
- Hold the mating fitting while tightening so the first joint does not loosen
- Do not over-tighten: excessive make-up can split the female fitting
- Seal weld after make-up where required by the piping specification

COMPANY

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