CS A105N 3000 PSI REDUCING HEX NIPPLE

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

BRAND: BOTHWELL | SKU: SW-0191 | SIZE 1/4" X 1/8" TO 2" X 1/2" | CLASS 3000



FIG. 1 | CS A105N 3000 PSI REDUCING HEX NIPPLE

PRODUCT OVERVIEW

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

Each end carries a male NPT taper thread to ASME B1.20.1, sized to its own connection. The integral hex centre takes a standard spanner, giving a compact size change with no separate bush or coupling.

Fitting type	**Reducing 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	**1/4" x 1/8" to 2" x 1/2"**

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	**1/4" x 1/8" to 2" x 1/2"**	Country of origin	**Taiwan**

BILL OF MATERIALS

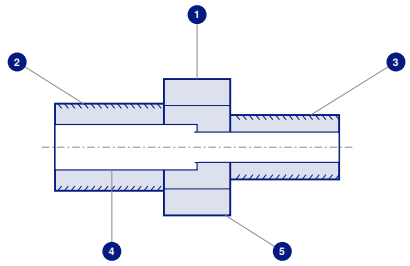


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL / DETAIL
1	Body	ASTM A105N forged carbon steel, normalized
2	Large male end	Male NPT to ASME B1.20.1
3	Small male end	Male NPT to ASME B1.20.1
4	Waterway bore	Bore b, small size, Class 3000
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 (LARGE X SMALL)	HEX A/F A (MM)	LENGTH W (MM)	THREAD E LARGE (MM)	THREAD F SMALL (MM)	HEX LENGTH C (MM)	BORE B (MM)
1/4" x 1/8"	15	31	15.5	11.0	6	5
3/8" x 1/4"	18	39	16.5	15.5	8	8
1/2" x 3/8"	22	44	20.5	16.5	8	11
1/2" x 1/4"	22	43	20.5	15.5	8	8
3/4" x 1/2"	27	50	21.5	20.5	9	14
3/4" x 3/8"	27	46	21.5	16.5	9	11
1" x 3/4"	35	56	25.5	21.5	10	19
1" x 1/2"	35	55	25.5	20.5	10	14
1.1/2" x 1"	50	67	26.5	25.5	16	24
1.1/2" x 3/4"	50	63	26.5	21.5	16	19
1.1/2" x 1/2"	50	62	26.5	20.5	16	14
2" x 1.1/2"	62	70	27.5	26.5	17	38
2" x 1"	62	70	27.5	25.5	18	24
2" x 3/4"	62	65	27.5	21.5	17	19
2" x 1/2"	62	65	27.5	20.5	18	14

A = hex across flats, W = overall length, E = thread length at large end, F = thread length at small 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-0191
Size	Large x small, e.g. 1/2" x 1/4", 1" x 1/2", 2" x 1"
Class	Class 3000
Thread	NPT male to ASME B1.20.1. BSPT on enquiry
Certification	EN 10204 3.1 on request
Order example	**SW-0191 / 1" x 1/2" / 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 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.

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

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

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

Sunel Wala Building Materials
Trading Co. LLC (SWBM)
Dubai, United Arab Emirates

SALES ENQUIRIES

info@swbm-fittings.com
Tel: +971 4 238 5652
Mobile / WhatsApp: +971 50 748 1772

ONLINE

www.swbm-fittings.com
Brand: Bothwell

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