



CS A105N 3000 / 6000 PSI REDUCING HEX BUSH

Hexagon Reducing Bush · Forged Carbon Steel · Class 3000 / 6000

SKU: SW-0199

BRAND: BOTHWELL

CLASS 3000 / 6000

MALE X FEMALE



FIG. 1 | CS A105N REDUCING HEX BUSH, MALE BY FEMALE NPT

PRODUCT OVERVIEW

The SWBM CS A105N Reducing Hex Bush screws into a female NPT outlet and presents a smaller female thread. It is the most compact way to step a connection down, and is the usual fitting for putting a small gauge or transmitter into a larger tapping.

The hexagon flange gives a spanner grip for tightening. It is forged from A105N and made to ASME B16.11 in Class 3000 and Class 6000.

Fitting type	Hexagon reducing bush
Function	Steps an outlet down in size
Material	ASTM A105N forged steel
End connection	Male NPT outside, female NPT bore
Standard	ASME B16.11
Size range	1/8" to 4" (DN6 to DN100)

TECHNICAL SPECIFICATION

Material	ASTM A105N carbon steel	Finish	Black, oiled for transport
Manufacture	Forged and normalised	Marking	Grade, class, size and heat number
Dimensional standard	ASME B16.11	Temperature range	-29°C to +425°C
Pressure class	Class 3000 / 6000	Country of origin	Taiwan
Ends	Male NPT outside, female NPT bore	Certification	EN 10204 3.1 on request
Threads	ASME B1.20.1 NPT		



BILL OF MATERIALS

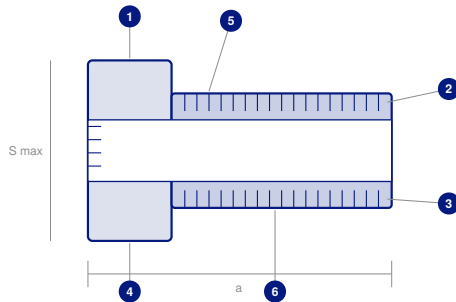


FIG. 2 | SECTIONAL ARRANGEMENT

#	FEATURE	DESCRIPTION
1	Hexagon flange	Six flats for spanner tightening
2	Male NPT thread	Thread to ASME B1.20.1
3	Female NPT thread	Thread to ASME B1.20.1
4	Bearing face	Flange face seating on the fitting
5	Internal shoulder	Stop limiting entry of the small pipe
6	Marking	Grade, class, size and heat number

One piece forged fitting with no seals or moving parts. The same figure is stocked in the threaded and socket weld patterns and in higher classes as separate items.

DIMENSIONS AND WEIGHTS

SIZE 1	SIZE 2	DN 1	DN 2	THREADS
1/4"	1/8"	8	6	NPT male x NPT female
3/8"	1/4"	10	8	NPT male x NPT female
1/2"	1/4"	15	8	NPT male x NPT female
1/2"	3/8"	15	10	NPT male x NPT female
3/4"	1/2"	20	15	NPT male x NPT female
1"	1/2"	25	15	NPT male x NPT female
1"	3/4"	25	20	NPT male x NPT female
1.1/4"	1"	32	25	NPT male x NPT female
1.1/2"	1"	40	25	NPT male x NPT female
1.1/2"	1.1/4"	40	32	NPT male x NPT female
2"	1"	50	25	NPT male x NPT female
2"	1.1/2"	50	40	NPT male x NPT female
2.1/2"	2"	65	50	NPT male x NPT female
3"	2"	80	50	NPT male x NPT female
4"	3"	100	80	NPT male x NPT female

Size 1 = male thread, size 2 = female bore. Combinations other than those listed are offered against enquiry. Body dimensions and across flats 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-0199
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-0199 / 1" x 1/2" / 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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