

BRASS REDUCING HEX NIPPLE

Reducing Hexagon Nipple · Brass · Male by Male

SKU: SW-0146

SIZE 1/8" TO 4"

BSPT / NPT MALE

BRASS



FIG. 1 | BRASS REDUCING HEX NIPPLE, MALE BOTH ENDS

PRODUCT OVERVIEW

The SWBM Brass Reducing Hex Nipple joins two female threaded outlets of different sizes on a straight axis. It combines a connection and a size change in one component, which shortens the assembly and removes a joint.

The central hexagon allows the nipple to be tightened to full sealing torque with a spanner. It is produced in brass to the EN 10242 pattern with BSPT or NPT male threads at both ends.

Fitting type	Reducing hexagon nipple
Function	Joins two female outlets of different size
Material	Brass
End connection	Male threaded, both ends
Body form	Central hexagon, spanner tightened
Size range	1/8" to 4" (DN6 to DN100)

TECHNICAL SPECIFICATION

Dimensional pattern	EN 10242 / ISO 49	Figure reference	EN 10242 fig. 245
Material	Brass, hot pressed or cast	Ends	Two unequal male ends
Finish	Natural brass, unplated	Working pressure	16 bar (232 psi) nominal
Threads (BSPT)	ISO 7-1 / BS 21	Temperature range	-20°C to +120°C nominal
Threads (NPT)	ASME B1.20.1	Size range	1/8" to 4" (DN6 to DN100)
Internal thread	Parallel Rp, ISO 228-1		



PRODUCT DATA SHEET

BRASS REDUCING HEX NIPPLE

Ref. SW-0146 | Rev. 01

BILL OF MATERIALS

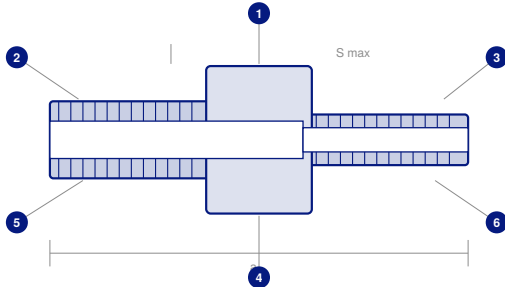


FIG. 2 | SECTIONAL ARRANGEMENT

#	FEATURE	DESCRIPTION
1	Central hexagon	Brass, six flats for tightening
2	Large male thread	Taper R to ISO 7-1, or NPT
3	Small male thread	Taper R to ISO 7-1, or NPT
4	Internal transition	Stepped bore between the two sizes
5	Thread run-out, large end	Machined relief at the hexagon face
6	Thread run-out, small end	Machined relief at the hexagon face

One piece fitting with no seals or moving parts. Sealing is made on the threads using PTFE tape or an approved thread sealant. Combinations other than those listed can be offered against enquiry.

DIMENSIONS AND WEIGHTS

SIZE 1	SIZE 2	DN 1	DN 2	A (MM)	S MAX (MM)
1/4"	1/8"	8	6	35	17
3/8"	1/4"	10	8	38	19
1/2"	1/4"	15	8	44	22
1/2"	3/8"	15	10	44	22
3/4"	3/8"	20	10	47	30
3/4"	1/2"	20	15	47	30
1"	1/2"	25	15	53	36
1"	3/4"	25	20	53	36
1.1/4"	3/4"	32	20	57	46
1.1/4"	1"	32	25	57	46
1.1/2"	1"	40	25	59	50
1.1/2"	1.1/4"	40	32	59	50
2"	1.1/4"	50	32	68	65
2"	1.1/2"	50	40	68	65
2.1/2"	2"	65	50	75	80
3"	2.1/2"	80	65	83	95
4"	3"	100	80	93	120

Reductions are listed as large size by small size. a = overall length, S max = hexagon across flats. Dimensions are taken from the EN 10242 / ISO 49 pattern for threaded fittings of this figure and are nominal. Masses are not published for this item and are therefore not stated. Certified drawings and weights for the make supplied are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0146
Size	1/8" to 4", reducing combinations as listed
Thread	BSPT or NPT, as ordered
Material	Brass, natural finish
Order example	SW-0146 / 1" x 1/2" / BSPT / BRASS

Stock held in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and certification requirements.



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PRESSURE AND TEMPERATURE

Water and general service	16 bar (232 psi) nominal at ambient
Compressed air and gas	10 bar (145 psi) nominal at ambient
Temperature range	-20°C to +120°C nominal
Service	Non-shock, non-corrosive media

Pressure and temperature figures are nominal values typical of threaded brass fittings to this pattern. They are not published on the product page and must be confirmed by SWBM for the make supplied before use in a rated or certified system.

TYPICAL APPLICATIONS

- Potable and general water supply networks
- Plumbing, sanitary and irrigation pipework
- Compressed air and low pressure gas lines
- Fire protection service pipework and hose reels
- General industrial and utility piping
- Instrument, drain and vent connections

COMPLIANCE AND QUALITY

- Dimensions to the EN 10242 / ISO 49 threaded fitting pattern
- Taper external threads to ISO 7-1 / BS 21, parallel internal threads to ISO 228-1
- NPT threads to ASME B1.20.1 available to order
- Brass construction, good corrosion resistance in potable and general water service
- Visual and dimensional inspection prior to despatch
- Material test certificate available on request against project orders

INSTALLATION AND OPERATION

- Clean and de-burr the pipe thread before assembly
- Apply PTFE tape or an approved thread sealant to the male thread only
- Tighten on the hexagon flats or across the fitting body, never on the pipe run
- Do not over-tighten, brass threads will gall or split if forced
- Avoid direct contact with galvanised steel in aggressive water without a dielectric union
- Pressure test the joint before covering or insulating the line

COMPANY

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Threaded brass pipe fittings

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