

BRASS REDUCING BUSH

Hexagon Reducing Bush · Brass · Male by Female

SKU: SW-0150	SIZE 1/8" TO 4"	MALE X FEMALE	BRASS
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FIG. 1 | BRASS REDUCING BUSH, HEXAGON FLANGE

PRODUCT OVERVIEW

The SWBM Brass Reducing Bush screws into a female outlet and presents a smaller female thread. It is the most compact way to step a connection down in size, and is widely used to fit a small valve or instrument into a larger tapping.

The hexagon flange gives a spanner grip for tightening. The bush is produced in brass to the EN 10242 pattern, with a male taper thread on the outside and a female thread through the bore.

Fitting type	Hexagon reducing bush
Function	Steps an outlet down in size
Material	Brass
End connection	Male outside, female bore
Body form	Hexagon flange, spanner tightened
Size range	1/8" to 4" (DN6 to DN100)

TECHNICAL SPECIFICATION

Dimensional pattern	EN 10242 / ISO 49	Figure reference	EN 10242 fig. 241
Material	Brass, hot pressed or cast	Ends	One male, one female, reducing
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		



BILL OF MATERIALS

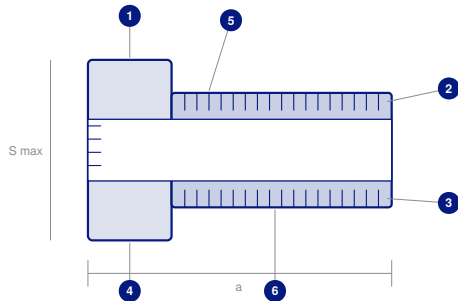


FIG. 2 | SECTIONAL ARRANGEMENT

#	FEATURE	DESCRIPTION
1	Hexagon flange	Brass, six flats for tightening
2	Male thread	Taper R to ISO 7-1, or NPT
3	Female thread	Parallel Rp to ISO 228-1, or NPT
4	Bearing face	Flange face seating on the fitting
5	Internal shoulder	Stop limiting entry of the small pipe
6	Thread run-out	Machined relief at the flange 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)	Z (MM)	S MAX (MM)
3/8"	1/4"	10	8	20	10	19
1/2"	1/4"	15	8	24	14	22
1/2"	3/8"	15	10	24	14	22
3/4"	3/8"	20	10	26	18	30
3/4"	1/2"	20	15	26	13	30
1"	1/2"	25	15	29	16	36
1"	3/4"	25	20	29	14	36
1.1/4"	3/4"	32	20	31	16	46
1.1/4"	1"	32	25	31	14	46
1.1/2"	1"	40	25	31	14	50
1.1/2"	1.1/4"	40	32	31	12	50
2"	1"	50	25	35	18	65
2"	1.1/2"	50	40	35	16	65
2.1/2"	2"	65	50	40	16	80
3"	2"	80	50	44	20	95
3"	2.1/2"	80	65	44	17	95
4"	3"	100	80	51	21	120

Size 1 = male thread, size 2 = female bore. a = overall length, z = assembly length after make up, 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-0150
Size	1/8" to 4", reducing combinations as listed
Thread	BSPT or NPT, as ordered
Material	Brass, natural finish
Order example	SW-0150 / 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.



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

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
Threaded brass pipe fittings

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