



MI REDUCING BUSH

Hexagon Reducing Bush · Black Malleable Iron

SKU: SW-0137	BRAND: JIANZHI	SIZE 1/8" TO 4"	MALE X FEMALE
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FIG. 1 | MI REDUCING BUSH, HEXAGON FLANGE

PRODUCT OVERVIEW

The SWBM MI 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, gauge or instrument into a larger tapping.

The hexagon flange gives a spanner grip for tightening. The body is cast in malleable iron and supplied black, with a male taper thread outside and a female thread through the bore.

Fitting type	Hexagon reducing bush
Function	Steps an outlet down in size
Material	Malleable cast iron, black
End connection	Male outside, female bore
Standard	EN 10242 / ISO 49
Size range	1/8" to 4" (DN6 to DN100)

TECHNICAL SPECIFICATION

Dimensional standard	EN 10242 / ISO 49	Threads (BSPT)	ISO 7-1 / EN 10226-1
Material	Malleable cast iron, EN-GJMB-350-10	Threads (NPT)	ASME B1.20.1
Tensile strength	350 N/mm² minimum	Internal thread	Parallel Rp, ISO 228-1
Elongation	10 per cent minimum	Working pressure	25 bar (363 psi) maximum
Finish	Black, self colour	Figure reference	EN 10242 fig. 241
Protection	Oiled for transport and storage	Ends	Male outside, female bore



BILL OF MATERIALS

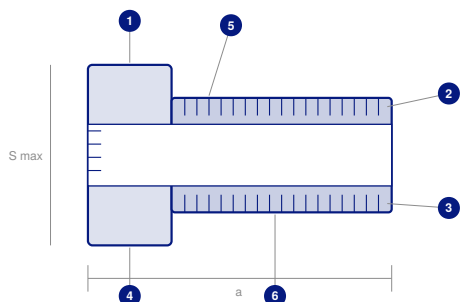


FIG. 2 | SECTIONAL ARRANGEMENT

#	FEATURE	DESCRIPTION
1	Hexagon flange	Six flats for spanner 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	Finish	Black self colour, oiled

One piece fitting with no seals or moving parts. Sealing is made on the threads using PTFE tape or an approved thread sealant. The same figure is stocked hot dip galvanised as a separate item.

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. Combinations other than those listed are offered against enquiry. Dimensions are nominal and masses are not published.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0137
Size	1/8" to 4", reducing combinations as listed
Thread	BSPT or NPT, as ordered
Material	Malleable cast iron, black
Order example	SW-0137 / 1" x 1/2" / BSPT / BLACK

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

Maximum working pressure	25 bar (363 psi), non-shock
Water and general service	25 bar at -20°C to +120°C
Steam and hot media	Derated, confirm the duty with SWBM
Temperature range	-20°C to +200°C

Ratings are those published for malleable cast iron threaded fittings to EN 10242 and apply to non-shock service. Black fittings carry no protective coating, so confirm the medium and the duty with SWBM before use on wet or corrosive service.

TYPICAL APPLICATIONS

- Fire protection and sprinkler pipework
- Compressed air and low pressure gas lines
- Steam and condensate services within rating
- Building services, HVAC and plant rooms
- Pipe framed structures and industrial furniture
- General workshop and utility pipework

COMPLIANCE AND QUALITY

- Manufactured to EN 10242 / ISO 49
- Material EN-GJMB-350-10 malleable cast iron
- Tensile strength 350 N/mm², elongation 10 per cent
- Taper external threads to ISO 7-1 / EN 10226-1
- NPT threads to ASME B1.20.1 available to order
- Air tightness tested before despatch
- Material test certificate EN 10204 3.1 on request

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 with a pipe wrench on the fitting body or hexagon
- Do not over-tighten, cast iron will crack if it is forced
- Black fittings are not coated, paint or wrap them where corrosion is a risk
- Pressure test the joint before covering or insulating the line

COMPANY

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