



MS 1000 PSI REDUCING BUSH

Hex Reducing Bush · Mild Steel · NPT / BSPT Threaded

BRAND: SW FLOW CONTROLS

SKU: SW-0174

SIZE 3/8" X 1/4" TO 4" X 3"

1000 PSI / 69 BAR



FIG. 1 | MS 1000 PSI REDUCING BUSH

PRODUCT OVERVIEW

The SWBM MS 1000 PSI Reducing Bush screws into a larger female outlet and presents a smaller female thread. It is the most compact way to step a connection down in size.

It is made from mild steel and rated 1000 PSI, and is commonly used to fit gauges, valves and smaller branches into larger tapings. NPT or BSPT threads are available.

Fitting type	Reducing bush, hex head
End connection	Male x female threaded
Material	Mild steel (MS)
Pressure rating	1000 PSI (69 bar)
Thread	NPT or BSPT
Size range	3/8" x 1/4" to 4" x 3"

TECHNICAL SPECIFICATION

Design standard	ASME B16.3 (as listed)	Threads (BSPT)	ISO 7-1 / BS 21
Material	Mild steel (MS)	Service	Water, oil, gas and air
Pressure rating	1000 PSI (69 bar)	Surface finish	Bare mild steel
End connection	Male x female threaded	Marking	Size and thread type
Size range	3/8" x 1/4" to 4" x 3"		
Threads (NPT)	ASME B1.20.1		



PRODUCT DATA SHEET

MS 1000 PSI REDUCING BUSH

Ref. SW-0174 | Rev. 01

BILL OF MATERIALS

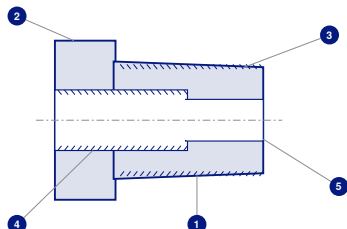


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL / DETAIL
1	Body	Mild steel (MS)
2	Hex head	Wrench flats
3	Male thread (large)	Male taper thread, NPT or BSPT
4	Female thread (small)	Female taper thread, NPT or BSPT
5	End face	Plain face

One piece construction. Items 2 to 5 are integral features, listed to identify the critical dimensional and inspection points.

DIMENSIONS

SIZE (LARGE X SMALL)	LARGE THREAD	SMALL THREAD	THREADS PER INCH	EFFECTIVE THREAD L2 LARGE / SMALL (MM)
3/8" x 1/4"	3/8" NPT	1/4" NPT	18 / 18	10.4 / 10.2
1/2" x 1/4"	1/2" NPT	1/4" NPT	14 / 18	13.6 / 10.2
1/2" x 3/8"	1/2" NPT	3/8" NPT	14 / 18	13.6 / 10.4
3/4" x 1/2"	3/4" NPT	1/2" NPT	14 / 14	13.9 / 13.6
1" x 1/2"	1" NPT	1/2" NPT	11.5 / 14	17.3 / 13.6
1" x 3/4"	1" NPT	3/4" NPT	11.5 / 14	17.3 / 13.9
1.1/4" x 1"	1.1/4" NPT	1" NPT	11.5 / 11.5	18.0 / 17.3
1.1/2" x 1"	1.1/2" NPT	1" NPT	11.5 / 11.5	18.4 / 17.3
2" x 1"	2" NPT	1" NPT	11.5 / 11.5	19.2 / 17.3
2" x 1.1/2"	2" NPT	1.1/2" NPT	11.5 / 11.5	19.2 / 18.4
3" x 2"	3" NPT	2" NPT	8 / 11.5	30.5 / 19.2
4" x 3"	4" NPT	3" NPT	8 / 8	33.0 / 30.5

Thread data per ASME B1.20.1 (NPT), each to its own size. BSPT threads to ISO 7-1 are available. Other combinations on request. Body dimensions follow the manufacturer standard and are not published here. Certified drawings, body dimensions and weights are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0174
Size	Large x small, e.g. 1/2" x 1/4", 1" x 1/2", 2" x 1"
Thread	NPT or BSPT, state on order
Pressure rating	1000 PSI (69 bar)
Certification	Material test certificate on request
Order example	SW-0174 / 1" x 1/2" / NPT / MS

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



PRODUCT DATA SHEET

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PRESSURE AND TEMPERATURE

Rated pressure	1000 PSI (69 bar), as listed
Service basis	Ambient temperature, non-shock
Material	Mild steel (MS)
Threads	NPT or BSPT, taper

The 1000 PSI rating is taken from the product listing and applies at ambient temperature in non-shock service. Derating for elevated temperature, steam or cyclic duty must be confirmed with SWBM before use.

TYPICAL APPLICATIONS

- Plumbing and water supply lines
- General industrial and utility piping
- Compressed air and low pressure gas lines
- Oil, fuel and lubrication lines
- Irrigation and agricultural piping
- Plant maintenance and workshop use

COMPLIANCE AND QUALITY

- Pattern to ASME B16.3, as listed
- Mild steel construction
- NPT threads to ASME B1.20.1, BSPT threads to ISO 7-1
- Rated 1000 PSI (69 bar) for non-shock service
- Material test certificate on request
- Pressure test and third party inspection on request

INSTALLATION AND OPERATION

- Clean and inspect male and female threads before assembly
- Apply PTFE tape or an approved thread sealant to the male thread only
- Make up hand tight, then tighten with a wrench on the fitting body
- Do not over-tighten: excessive make-up can split the female end
- Never mix NPT and BSPT threads in one joint
- Support the line so threaded joints do not carry bending loads

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: SW Flow Controls

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