MS 1000 PSI REDUCING HEX NIPPLE

Reducing Hex Nipple · Mild Steel · NPT / BSPT Threaded

BRAND: SW FLOW CONTROLS | SKU: SW-0171 | SIZE 3/8" X 1/4" TO 4" X 3" | 1000 PSI / 69 BAR



FIG. 1 | MS 1000 PSI REDUCING HEX NIPPLE

PRODUCT OVERVIEW

The SWBM MS 1000 PSI Reducing Hex Nipple joins two female threaded fittings, valves or instruments of different sizes. Each end carries a male taper thread sized to its own connection.

The integral hex centre takes a standard spanner. It is made from mild steel and rated 1000 PSI, giving a compact size change with NPT or BSPT threads.

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

BILL OF MATERIALS

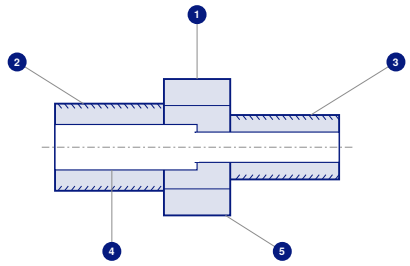


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL / DETAIL
1	Body	Mild steel (MS)
2	Large male end	Male taper thread, NPT or BSPT
3	Small male end	Male taper thread, NPT or BSPT
4	Waterway bore	Through bore, small size
5	Hex	Wrench flats

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-0171
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-0171 / 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.

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

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