



MS 1000 PSI ELBOW 90°

90° Elbow · Mild Steel · NPT / BSPT Threaded

BRAND: SW FLOW CONTROLS

SKU: SW-0166

SIZE 1/4" TO 4"

1000 PSI / 69 BAR



FIG. 1 | MS 1000 PSI ELBOW 90°

PRODUCT OVERVIEW

The SWBM MS 1000 PSI 90° Elbow turns a threaded line through a right angle. Both ends carry female taper threads for a direct connection to male threaded pipe.

It is made from mild steel and rated 1000 PSI, suited to plumbing, water supply, compressed air and general industrial piping. NPT or BSPT threads are available.

Fitting type	Elbow 90°
End connection	Female threaded, 2 ends
Material	Mild steel (MS)
Pressure rating	1000 PSI (69 bar)
Thread	NPT or BSPT
Size range	1/4" to 4" (DN8 to DN100)

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	Female threaded, 2 ends	Marking	Size and thread type
Size range	1/4" to 4" (DN8 to DN100)		
Threads (NPT)	ASME B1.20.1		



PRODUCT DATA SHEET

MS 1000 PSI ELBOW 90°
Ref. SW-0166 | Rev. 01

BILL OF MATERIALS

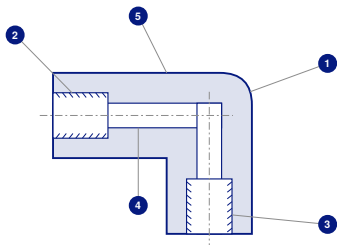


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL / DETAIL
1	Body	Mild steel (MS)
2	Threaded end (2 nos.)	Female taper thread, NPT or BSPT
3	Elbow corner	Short radius 90° turn
4	Waterway bore	Through bore
5	Marking	Size and thread type

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

DIMENSIONS

SIZE	DN	THREAD	THREADS PER INCH	PIPE OD (MM)	HAND TIGHT L1 (MM)	EFFECTIVE THREAD L2 (MM)
1/4"	8	1/4" NPT	18	13.7	5.1	10.2
3/8"	10	3/8" NPT	18	17.1	6.1	10.4
1/2"	15	1/2" NPT	14	21.3	8.1	13.6
3/4"	20	3/4" NPT	14	26.7	8.6	13.9
1"	25	1" NPT	11.5	33.4	10.2	17.3
1.1/4"	32	1.1/4" NPT	11.5	42.2	10.7	18.0
1.1/2"	40	1.1/2" NPT	11.5	48.3	10.7	18.4
2"	50	2" NPT	11.5	60.3	11.1	19.2
2.1/2"	65	2.1/2" NPT	8	73.0	17.3	28.9
3"	80	3" NPT	8	88.9	19.5	30.5
4"	100	4" NPT	8	114.3	21.4	33.0

Thread data per ASME B1.20.1 (NPT) and pipe OD per ASME B36.10 for the mating pipe. BSPT threads to ISO 7-1 are available. 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-0166
Size	1/4", 3/8", 1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"
Thread	NPT or BSPT, state on order
Pressure rating	1000 PSI (69 bar)
Certification	Material test certificate on request
Order example	SW-0166 / 1" / 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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