

MI ELBOW 90D

90 Degree Elbow · Black Malleable Iron

SKU: SW-0125

BRAND: JIANZHI

SIZE 1/8" TO 4"

BSPT / NPT FEMALE



FIG. 1 | MI ELBOW 90 DEGREE, FEMALE THREADED

PRODUCT OVERVIEW

The SWBM MI Elbow 90D turns a threaded line through a right angle in the shortest possible length. It is the standard direction change in fire protection, compressed air and utility pipework, and its compact centre to face dimension suits congested plant rooms and riser shafts.

Both ends are female threaded to the EN 10242 pattern. The body is cast in malleable iron and supplied black, oiled for transport and storage.

Fitting type	90 degree elbow
Function	Right angle change of direction
Material	Malleable cast iron, black
End connection	Female threaded, both ends
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/mm ² 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. 90
Protection	Oiled for transport and storage	Ends	Female threaded, both ends



BILL OF MATERIALS

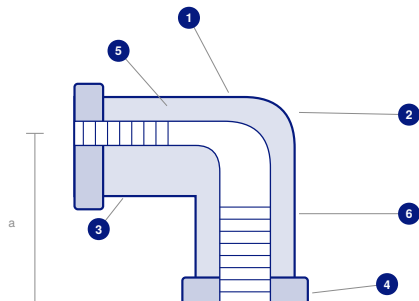


FIG. 2 | SECTIONAL ARRANGEMENT

#	FEATURE	DESCRIPTION
1	Body	Malleable cast iron, one piece
2	Female sockets (2 nos.)	Parallel Rp to ISO 228-1, or NPT
3	Reinforcing band	Raised band at each socket mouth
4	Waterway	Full bore, 90° sweep
5	Internal radius	Radiused throat and back
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	DN	THREAD	A (MM)	Z (MM)	END TO END (MM)
1/8"	6	1/8"	19	12	38
1/4"	8	1/4"	21	11	42
3/8"	10	3/8"	25	15	50
1/2"	15	1/2"	28	15	56
3/4"	20	3/4"	33	18	66
1"	25	1"	38	21	76
1.1/4"	32	1.1/4"	45	26	90
1.1/2"	40	1.1/2"	50	31	100
2"	50	2"	58	34	116
2.1/2"	65	2.1/2"	69	42	138
3"	80	3"	78	48	156
4"	100	4"	96	60	192

a = centre of body to face of socket, z = assembly length after make up. Dimensions are taken from the EN 10242 / ISO 49 pattern for 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-0125
Size	1/8", 1/4", 3/8", 1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"
Thread	BSPT or NPT, as ordered
Material	Malleable cast iron, black
Order example	SW-0125 / 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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