

MI ELBOW MALE X FEMALE

90 Degree Street Elbow · Black Malleable Iron

SKU: SW-0127

BRAND: JIANZHI

SIZE 1/8" TO 4"

MALE X FEMALE



FIG. 1 | MI ELBOW 90 DEGREE, MALE BY FEMALE

PRODUCT OVERVIEW

The SWBM MI Elbow Male x Female, also called a street elbow, turns a line through 90 degrees with one male end and one female end. It screws straight into a female outlet on a valve, pump or fitting without the nipple that a double female elbow would need.

Removing that extra joint shortens the assembly, reduces the number of potential leak paths and saves space at the connection. The body is cast in malleable iron and supplied black.

Fitting type	90 degree street elbow
Function	Right angle change of direction
Material	Malleable cast iron, black
End connection	One male end, one female end
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. 92
Protection	Oiled for transport and storage	Ends	One male end, one female end



PRODUCT DATA SHEET

MI ELBOW MALE X FEMALE
Ref. SW-0127 | Rev. 01

BILL OF MATERIALS

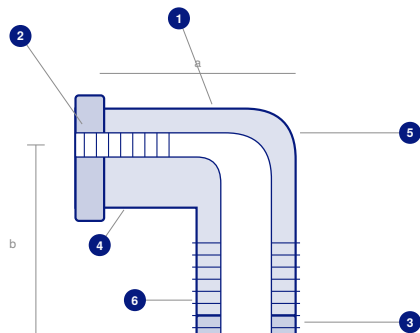


FIG. 2 | SECTIONAL ARRANGEMENT

#	FEATURE	DESCRIPTION
1	Body	Malleable cast iron, one piece
2	Female socket	Parallel Rp to ISO 228-1, or NPT
3	Male thread	Taper R to ISO 7-1, or NPT
4	Reinforcing band	Raised band at the socket mouth
5	Waterway	Full bore, 90° sweep
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)	B (MM)	Z (MM)
1/8"	6	1/8"	19	25	12
1/4"	8	1/4"	21	28	11
3/8"	10	3/8"	25	32	15
1/2"	15	1/2"	28	37	15
3/4"	20	3/4"	33	43	18
1"	25	1"	38	52	21
1.1/4"	32	1.1/4"	45	60	26
1.1/2"	40	1.1/2"	50	65	31
2"	50	2"	58	74	34
2.1/2"	65	2.1/2"	69	88	42
3"	80	3"	78	98	48
4"	100	4"	96	118	60

a = centre of body to face of the female socket, b = centre of body to the end of the male thread, 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-0127
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-0127 / 3/4" / 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.



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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

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: Jianzhi

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