



# GI ELBOW MALE X FEMALE

90 Degree Street Elbow · Galvanised Malleable Iron

SKU: SW-0110

BRAND: JIANZHI

SIZE 1/8" TO 4"

MALE X FEMALE



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

## PRODUCT OVERVIEW

The SWBM GI 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 hot dip galvanized.

|                |                                 |
|----------------|---------------------------------|
| Fitting type   | 90 degree street elbow          |
| Function       | Right angle change of direction |
| Material       | Malleable cast iron, galvanised |
| 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 <sup>2</sup> minimum       | Internal thread  | Parallel Rp, ISO 228-1       |
| Elongation           | 10 per cent minimum                 | Working pressure | 25 bar (363 psi) maximum     |
| Finish               | Hot dip galvanised                  | Figure reference | EN 10242 fig. 92             |
| Zinc coating         | Not less than 500 g/m <sup>2</sup>  | Ends             | One male end, one female end |



## PRODUCT DATA SHEET

GI ELBOW MALE X FEMALE  
Ref. SW-0110 | Rev. 01

### BILL OF MATERIALS

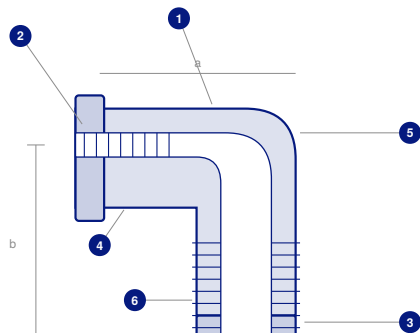


FIG. 2 | SECTIONAL ARRANGEMENT

| # | 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 | Galvanised coating | Hot dip zinc, inside and out     |

One piece fitting with no seals or moving parts. Sealing is made on the threads using PTFE tape or an approved thread sealant.

### 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-0110                                                              |
| 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, hot dip galvanised                              |
| Order example | <b>SW-0110 / 3/4" / BSPT / GALVANISED</b>                            |

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  | <b>25 bar (363 psi), non-shock</b>         |
| Water and general service | <b>25 bar at -20°C to +120°C</b>           |
| Steam and hot media       | <b>Derated, confirm the duty with SWBM</b> |
| Temperature range         | <b>-20°C to +200°C</b>                     |

Ratings are those published for malleable cast iron threaded fittings to EN 10242 and apply to non-shock service. Confirm the rating for the make supplied before use in a certified or fire rated system.

## TYPICAL APPLICATIONS

- Water supply and distribution networks
- Fire protection and sprinkler pipework
- Compressed air and low pressure gas lines
- Building services, HVAC and plant rooms
- Irrigation, drainage and utility piping
- General industrial and workshop pipework

## COMPLIANCE AND QUALITY

- Manufactured to EN 10242 / ISO 49
- Material EN-GJMB-350-10 malleable cast iron
- Taper external threads to ISO 7-1 / EN 10226-1
- NPT threads to ASME B1.20.1 available to order
- Hot dip galvanised, zinc coating not less than 500 g/m<sup>2</sup>
- 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
- Avoid heavy tool marks, they break the galvanised coating
- Pressure test the joint before covering or insulating the line

### COMPANY

**Sunel Wala Building Materials**

Trading Co. LLC (SWBM)

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### SALES ENQUIRIES

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Brand: Jianzhi

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