



GI CROSS-OVER ELBOW

Cross-Over Bend · Galvanised Malleable Iron

SKU: SW-0112

BRAND: JIANZHI

SIZE 1/8" TO 4"

BSPT / NPT FEMALE



FIG. 1 | GI CROSS-OVER ELBOW, FEMALE BOTH ENDS

PRODUCT OVERVIEW

The SWBM GI Cross-Over Elbow lifts a threaded line over another pipe that crosses its path, then returns it to the original centre line. It avoids the two elbows and short nipple that would otherwise be needed, and keeps the run tidy where services cross.

Both ends are female threaded to the EN 10242 pattern. The body is cast in malleable iron and hot dip galvanised, and is commonly used in heating, compressed air and workshop pipework.

Fitting type	Cross-over bend
Function	Carries a line over a crossing pipe
Material	Malleable cast iron, galvanised
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	Hot dip galvanised	Figure reference	EN 10242 fig. 85
Zinc coating	Not less than 500 g/m ²	Ends	Female threaded, both ends



PRODUCT DATA SHEET

GI CROSS-OVER ELBOW
Ref. SW-0112 | Rev. 01

BILL OF MATERIALS

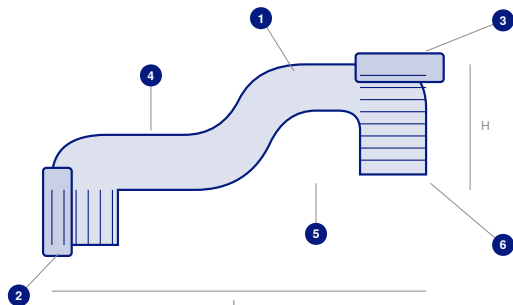


FIG. 2 | SECTIONAL ARRANGEMENT

#	FEATURE	DESCRIPTION
1	Body	Malleable cast iron, one piece
2	Female socket, end 1	Parallel Rp to ISO 228-1, or NPT
3	Female socket, end 2	Parallel Rp to ISO 228-1, or NPT
4	Offset bend	Raised loop clearing the crossing pipe
5	Reinforcing band	Raised band at each socket mouth
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	THREAD ENGAGEMENT (MM)
1/4"	8	1/4"	10
3/8"	10	3/8"	10
1/2"	15	1/2"	13
3/4"	20	3/4"	15
1"	25	1"	17
1.1/4"	32	1.1/4"	19
1.1/2"	40	1.1/2"	19
2"	50	2"	24

Thread engagement is the standard EN 10242 make up length for the size shown. The offset height H and overall length L of a cross-over bend are to manufacturer standard and vary between makes, so they are not stated here. Certified drawings for the make supplied are issued on request. Sizes outside the range listed are offered against enquiry.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0112
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	SW-0112 / 1/2" / BSPT / GALVANISED

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. 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/m²
- 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

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