

GI REDUCING ELBOW

Reducing 90 Degree Elbow · Galvanised Malleable Iron

SKU: SW-0111

BRAND: JIANZHI

SIZE 1/8" TO 4"

BSPT / NPT FEMALE



FIG. 1 | GI REDUCING ELBOW, FEMALE BOTH ENDS

PRODUCT OVERVIEW

The SWBM GI Reducing Elbow turns a threaded line through 90 degrees and changes diameter at the same time. Combining the two functions saves a joint and shortens the assembly where a branch drops to a smaller size at a corner.

Both ends are female threaded to the EN 10242 pattern, with a different size at each end. The body is cast in malleable iron and hot dip galvanised.

Fitting type	Reducing 90 degree elbow
Function	Turns and reduces in one fitting
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. 90R
Zinc coating	Not less than 500 g/m ²	Ends	Female threaded, both ends



PRODUCT DATA SHEET

GI REDUCING ELBOW
Ref. SW-0111 | Rev. 01

BILL OF MATERIALS

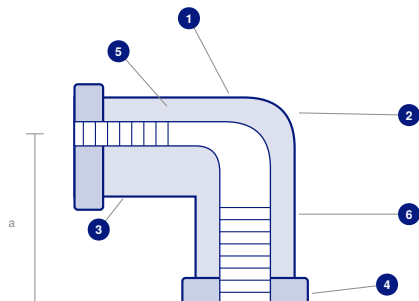


FIG. 2 | SECTIONAL ARRANGEMENT

#	FEATURE	DESCRIPTION
1	Body	Malleable cast iron, one piece
2	Large female socket	Parallel Rp to ISO 228-1, or NPT
3	Small female socket	Parallel Rp to ISO 228-1, or NPT
4	Reinforcing band	Raised band at each socket mouth
5	Waterway	Stepped 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 1	SIZE 2	DN 1	DN 2	A (MM)	B (MM)	Z1 (MM)	Z2 (MM)
1/4"	3/8"	8	10	23	23	13	13
1/4"	1/2"	8	15	24	24	14	11
3/8"	1/2"	10	15	26	26	16	13
3/8"	3/4"	10	20	28	28	18	13
1/2"	3/4"	15	20	31	30	18	15
1/2"	1"	15	25	34	32	21	15
3/4"	1"	20	25	36	35	21	18
1/2"	1.1/4"	15	32	38	35	25	16
3/4"	1.1/4"	20	32	41	36	26	17
1"	1.1/4"	25	32	42	40	25	21
3/4"	1.1/2"	20	40	44	38	29	19
1"	1.1/2"	25	40	46	42	29	23
1.1/4"	1.1/2"	32	40	48	46	29	27
1"	2"	25	50	52	44	35	20
1.1/4"	2"	32	50	53	48	34	24
1.1/2"	2"	40	50	55	52	36	28
2"	2.1/2"	50	65	66	61	42	34

a = centre of body to face of the size 1 socket, b = centre of body to face of the size 2 socket, z1 and z2 = assembly lengths on the respective sides after make up. Combinations other than those listed are offered against enquiry. Dimensions are nominal and masses are not published.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0111
Size	1/4" to 2.1/2", reducing combinations as listed
Thread	BSPT or NPT, as ordered
Material	Malleable cast iron, hot dip galvanised
Order example	SW-0111 / 1" x 3/4" / 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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