



GI UNION

Three Piece Union · Galvanised Malleable Iron · Conical Seat

SKU: SW-0121

BRAND: JIANZHI

SIZE 1/8" TO 4"

BSPT / NPT FEMALE



FIG. 1 | GI UNION, THREE PIECE, FEMALE THREADED

PRODUCT OVERVIEW

The SWBM GI Union is a three piece demountable joint made up of two tail pieces drawn together by a single nut. It allows a section of pipework, a valve, a meter or a pump to be removed without cutting the line or unscrewing the whole run back to the nearest free end.

The seal is made metal to metal on a machined conical seat, so no gasket is required and the joint can be broken and remade repeatedly. The parts are cast in malleable iron and hot dip galvanised.

Fitting type	Three piece union, conical seat
Function	Demountable joint in a threaded line
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. 340
Zinc coating	Not less than 500 g/m ²	Ends	Female threaded, both ends

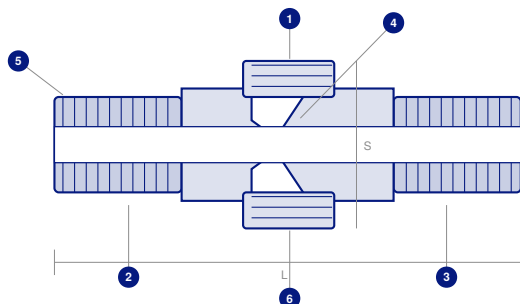
BILL OF MATERIALS


FIG. 2 | SECTIONAL ARRANGEMENT

#	FEATURE	DESCRIPTION
1	Union nut	Malleable iron, hexagon, draws the joint together
2	Tail piece, cone side	Malleable iron, machined male cone
3	Tail piece, seat side	Malleable iron, machined conical seat
4	Conical seating face	Metal to metal, no gasket
5	Female thread ends	Parallel Rp to ISO 228-1, or NPT
6	Galvanised coating	Hot dip zinc, inside and out

Flat seat unions with a fibre gasket, and male by female unions, can be offered against enquiry. The union is supplied assembled and is not interchangeable part for part between makes.

DIMENSIONS AND WEIGHTS

SIZE	DN	THREAD	NUT THREAD	NUT A/F (MM)	LENGTH L (MM)
1/4"	8	1/4"	5/8"	32	36
3/8"	10	3/8"	7/8"	36	38
1/2"	15	1/2"	1.1/8"	44	44
3/4"	20	3/4"	1.1/4"	50	48
1"	25	1"	1.1/2"	55	54
1.1/4"	32	1.1/4"	2"	70	60
1.1/2"	40	1.1/2"	2.1/4"	75	64
2"	50	2"	2.3/4"	90	72
2.1/2"	65	2.1/2"	3.1/2"	110	84
3"	80	3"	4"	130	92

Nut thread and nut across flats follow the EN 10242 union nut pattern. Length L is a general indicative figure for a three piece union of this type and is not taken from a manufacturer drawing. Confirm L with SWBM before it is used for pipe cutting, spool fabrication or any dimensioned submittal. Sizes 1/8" and 4" are offered but are not listed above. Masses are not published.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0121
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-0121 / 1" / BSPT / CONICAL SEAT

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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