

MI UNION

Three Piece Union · Black Malleable Iron · Conical Seat

SKU: SW-0136	BRAND: JIANZHI	SIZE 1/8" TO 4"	BSPT / NPT FEMALE
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FIG. 1 | MI UNION, THREE PIECE, FEMALE THREADED

PRODUCT OVERVIEW

The SWBM MI 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 supplied black.

Fitting type	Three piece union, conical seat
Function	Demountable joint in a threaded line
Material	Malleable cast iron, black
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	Black, self colour	Figure reference	EN 10242 fig. 340
Protection	Oiled for transport and storage	Ends	Female threaded, both ends

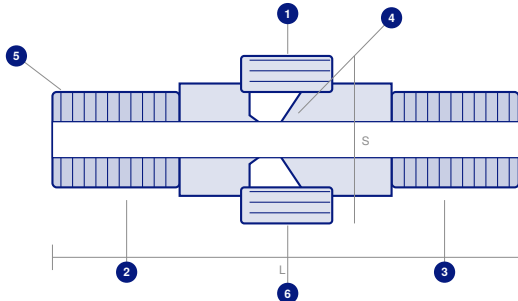
BILL OF MATERIALS


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	Finish	Black self colour, oiled

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-0136
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-0136 / 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. 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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