

BRASS UNION

Three Piece Union · Brass · Female Threaded, Conical Seat

SKU: SW-0149

SIZE 1/8" TO 4"

BSPT / NPT FEMALE

BRASS



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

PRODUCT OVERVIEW

The SWBM Brass 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. Both ends are female threaded to the EN 10242 pattern and are available BSPT or NPT.

Fitting type	Three piece union, conical seat
Function	Demountable joint in a threaded line
Material	Brass
End connection	Female threaded, both ends
Seal	Metal to metal conical seat, no gasket
Size range	1/8" to 4" (DN6 to DN100)

TECHNICAL SPECIFICATION

Dimensional pattern	EN 10242 / ISO 49	Figure reference	EN 10242 fig. 340 pattern
Material	Brass, hot pressed or cast	Construction	Two tail pieces and one nut
Finish	Natural brass, unplated	Working pressure	16 bar (232 psi) nominal
Threads (BSPT)	ISO 7-1 / BS 21	Temperature range	-20°C to +120°C nominal
Threads (NPT)	ASME B1.20.1	Size range	1/8" to 4" (DN6 to DN100)
Internal thread	Parallel Rp, ISO 228-1		

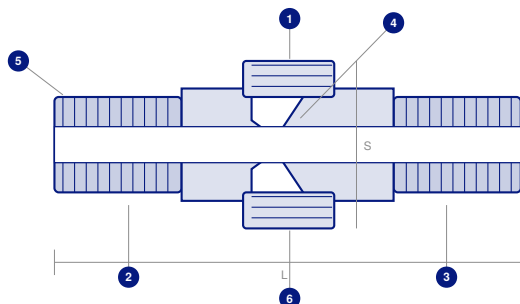
BILL OF MATERIALS


FIG. 2 | SECTIONAL ARRANGEMENT

#	FEATURE	DESCRIPTION
1	Union nut	Brass, hexagon, draws the joint together
2	Tail piece, cone side	Brass, machined male cone
3	Tail piece, seat side	Brass, 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	Nut thread	Parallel, machined on the seat side tail piece

Flat seat unions with a fibre or PTFE 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 brass 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 for this item and are therefore not stated.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0149
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	Brass, natural finish
Order example	SW-0149 / 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

Water and general service	16 bar (232 psi) nominal at ambient
Compressed air and gas	10 bar (145 psi) nominal at ambient
Temperature range	-20°C to +120°C nominal
Service	Non-shock, non-corrosive media

Pressure and temperature figures are nominal values typical of threaded brass fittings to this pattern. They are not published on the product page and must be confirmed by SWBM for the make supplied before use in a rated or certified system.

TYPICAL APPLICATIONS

- Potable and general water supply networks
- Plumbing, sanitary and irrigation pipework
- Compressed air and low pressure gas lines
- Fire protection service pipework and hose reels
- General industrial and utility piping
- Instrument, drain and vent connections

COMPLIANCE AND QUALITY

- Dimensions to the EN 10242 / ISO 49 threaded fitting pattern
- Taper external threads to ISO 7-1 / BS 21, parallel internal threads to ISO 228-1
- NPT threads to ASME B1.20.1 available to order
- Brass construction, good corrosion resistance in potable and general water service
- Visual and dimensional inspection prior to despatch
- Material test certificate available on request against project orders

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 on the hexagon flats or across the fitting body, never on the pipe run
- Do not over-tighten, brass threads will gall or split if forced
- Avoid direct contact with galvanised steel in aggressive water without a dielectric union
- Pressure test the joint before covering or insulating the line

COMPANY

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Threaded brass pipe fittings

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