

BRASS CROSS

Equal Four Way Cross · Brass · Female Threaded

SKU: SW-0148

SIZE 1/8" TO 4"

BSPT / NPT FEMALE

BRASS



FIG. 1 | BRASS CROSS, FOUR FEMALE THREADED OUTLETS

PRODUCT OVERVIEW

The SWBM Brass Cross has four female threaded openings set at 90 degrees to one another, allowing a line to be split in two perpendicular directions from a single junction. It replaces a pair of tees where space is tight and keeps the branch centres on one plane.

The body is produced in brass to the EN 10242 threaded fitting pattern, with reinforcing bands at each socket. Threads are available BSPT or NPT, so the fitting can be built into either British or American threaded pipework without adaptors.

Fitting type	Equal cross, four way
Function	Two perpendicular branches
Material	Brass
End connection	Female threaded, four ends
Configuration	All outlets on one plane at 90°
Size range	1/8" to 4" (DN6 to DN100)

TECHNICAL SPECIFICATION

Dimensional pattern	EN 10242 / ISO 49	Figure reference	EN 10242 fig. 180
Material	Brass, hot pressed or cast	Ends	Four equal female ends
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

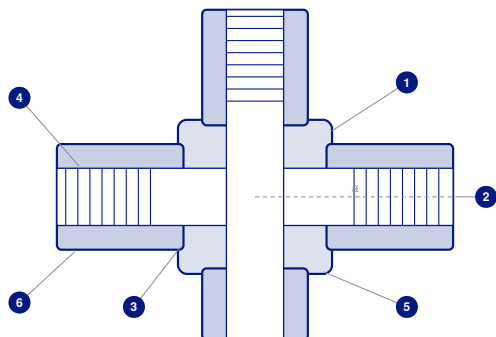


FIG. 2 | SECTIONAL ARRANGEMENT

#	FEATURE	DESCRIPTION
1	Body	Brass, one piece
2	Female sockets (4 nos.)	Parallel Rp to ISO 228-1, or NPT
3	Reinforcing band	Raised band at each socket mouth
4	Waterway	Full bore through both axes
5	Junction fillet	Radiused internal corners at the crossing
6	Casting rib	Longitudinal rib on the outer body

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	A (MM)	Z (MM)	END TO END (MM)
1/4"	8	1/4"	21	11	42
3/8"	10	3/8"	25	15	50
1/2"	15	1/2"	28	15	56
3/4"	20	3/4"	33	18	66
1"	25	1"	38	21	76
1.1/4"	32	1.1/4"	45	26	90
1.1/2"	40	1.1/2"	50	31	100
2"	50	2"	58	34	116
2.1/2"	65	2.1/2"	69	42	138
3"	80	3"	78	48	156
4"	100	4"	96	60	192

a = centre of body to face of socket, z = assembly length after the pipe is made up, end to end = 2a. Size 1/8" is offered but is not covered by the pattern table above. Dimensions are taken from the EN 10242 / ISO 49 pattern for threaded fittings of this figure and are nominal. Masses are not published for this item and are therefore not stated. Certified drawings and weights for the make supplied are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0148
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-0148 / 1" / BSPT / BRASS

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

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
Threaded brass pipe fittings

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