

BRASS ELBOW MALE X FEMALE

90 Degree Street Elbow · Brass · Male by Female

SKU: SW-0142	SIZE 1/8" TO 4"	MALE X FEMALE	BRASS
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FIG. 1 | BRASS ELBOW 90 DEGREE, MALE BY FEMALE

PRODUCT OVERVIEW

The SWBM Brass Elbow Male x Female, also called a street elbow, turns a line through 90 degrees with one male end and one female end. It screws straight into a female outlet on a valve, pump or fitting without the nipple that a double female elbow would need.

Removing that extra joint shortens the assembly, reduces the number of potential leak paths and saves space at the connection. The fitting is produced in brass to the EN 10242 pattern and is available with BSPT or NPT threads.

Fitting type	90 degree street elbow
Function	Right angle change of direction
Material	Brass
End connection	One male end, one female end
Bend angle	90°
Size range	1/8" to 4" (DN6 to DN100)

TECHNICAL SPECIFICATION

Dimensional pattern	EN 10242 / ISO 49	Figure reference	EN 10242 fig. 92
Material	Brass, hot pressed or cast	Ends	One male taper, one female
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		



PRODUCT DATA SHEET

BRASS ELBOW MALE X FEMALE

Ref. SW-0142 | Rev. 01

BILL OF MATERIALS

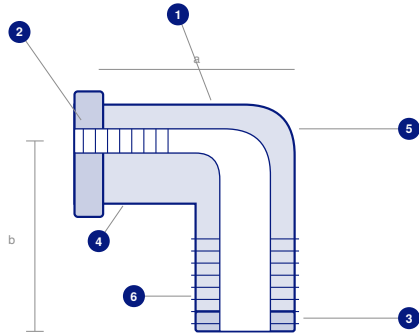


FIG. 2 | SECTIONAL ARRANGEMENT

#	FEATURE	DESCRIPTION
1	Body	Brass, one piece
2	Female socket	Parallel Rp to ISO 228-1, or NPT
3	Male thread	Taper R to ISO 7-1, or NPT
4	Reinforcing band	Raised band at the socket mouth
5	Waterway	Full bore, 90° sweep
6	Thread run-out	Machined relief at the root of the male thread

One piece fitting with no seals or moving parts. Reducing male by female elbows are available against enquiry.

DIMENSIONS AND WEIGHTS

SIZE	DN	THREAD	A (MM)	B (MM)	Z (MM)
1/8"	6	1/8"	19	25	12
1/4"	8	1/4"	21	28	11
3/8"	10	3/8"	25	32	15
1/2"	15	1/2"	28	37	15
3/4"	20	3/4"	33	43	18
1"	25	1"	38	52	21
1.1/4"	32	1.1/4"	45	60	26
1.1/2"	40	1.1/2"	50	65	31
2"	50	2"	58	74	34
2.1/2"	65	2.1/2"	69	88	42
3"	80	3"	78	98	48
4"	100	4"	96	118	60

a = centre of body to face of the female socket, b = centre of body to the end of the male thread, z = assembly length after the pipe is made up. 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-0142
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-0142 / 3/4" / 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.



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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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