



BRASS ELBOW 45D

45 Degree Elbow · Brass · Female Threaded

SKU: SW-0141

SIZE 1/8" TO 4"

BSPT / NPT FEMALE

BRASS



FIG. 1 | BRASS ELBOW 45 DEGREE, FEMALE THREADED

PRODUCT OVERVIEW

The SWBM Brass Elbow 45D changes the direction of a threaded line by 45 degrees. The shallower bend gives a gentler flow path than a 90 degree elbow, with lower turbulence and a smaller pressure drop, and is often used in pairs to offset a run around an obstruction.

Both ends are female threaded to the EN 10242 pattern, so the elbow connects directly to threaded pipe or to male fittings. It is produced in brass for corrosion resistance in potable water, chilled water and general utility service.

Fitting type	45 degree elbow
Function	Gradual change of direction
Material	Brass
End connection	Female threaded, both ends
Bend angle	45°
Size range	1/8" to 4" (DN6 to DN100)

TECHNICAL SPECIFICATION

Dimensional pattern	EN 10242 / ISO 49	Figure reference	EN 10242 fig. 120
Material	Brass, hot pressed or cast	Ends	Two 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		



PRODUCT DATA SHEET

BRASS ELBOW 45D
Ref. SW-0141 | Rev. 01

BILL OF MATERIALS

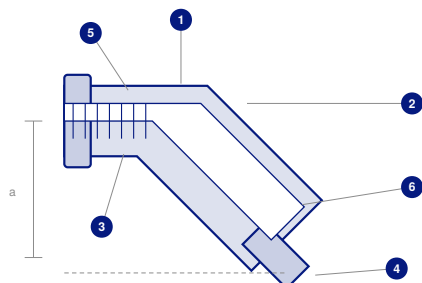


FIG. 2 | SECTIONAL ARRANGEMENT

#	FEATURE	DESCRIPTION
1	Body	Brass, one piece
2	Female sockets (2 nos.)	Parallel Rp to ISO 228-1, or NPT
3	Reinforcing band	Raised band at each socket mouth
4	Waterway	Full bore, 45° sweep
5	Internal radius	Radiused throat to limit turbulence
6	Casting rib	Longitudinal rib on the outer body

One piece fitting with no seals or moving parts. A 45 degree elbow with one male and one female end can be offered against enquiry.

DIMENSIONS AND WEIGHTS

SIZE	DN	THREAD	A (MM)	Z (MM)
3/8"	10	3/8"	20	10
1/2"	15	1/2"	22	9
3/4"	20	3/4"	25	10
1"	25	1"	28	11
1.1/4"	32	1.1/4"	33	14
1.1/2"	40	1.1/2"	36	17
2"	50	2"	43	19
2.1/2"	65	2.1/2"	48	21
3"	80	3"	54	24

a = centre of body to face of socket, z = assembly length after the pipe is made up. Sizes 1/8", 1/4" and 4" are offered but are 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-0141
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-0141 / 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.



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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