



SS CL150 ELBOW 45D

45 Degree Elbow · Stainless Steel 316 · Class 150 Threaded

SKU: SW-0154

BRAND: SW FLOW CONTROLS

SIZE 1/8" TO 4"

CL150 / SS316



FIG. 1 | SS CL150 ELBOW 45 DEGREE, FEMALE THREADED

PRODUCT OVERVIEW

The SWBM SS CL150 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. The body is investment cast in austenitic stainless steel and supplied pickled and passivated, which suits it to potable, process and marine service.

Fitting type	45 degree elbow
Function	Gradual change of direction
Material	Stainless steel, investment cast
End connection	Female threaded, both ends
Pressure class	Class 150
Size range	1/8" to 4" (DN6 to DN100)

TECHNICAL SPECIFICATION

Material	Stainless steel, 304 or 316	Internal thread	Parallel Rp, ISO 228-1
Pressure class	Class 150	Working pressure	16 bar (232 psi) nominal at ambient
Manufacture	Investment cast, machined threads	Temperature range	-40°C to +200°C nominal
Finish	Pickled and passivated	Dimensional pattern	ISO 4144 / general threaded pattern
Threads (BSPT)	ISO 7-1 / BS 21	Ends	Female threaded, both ends
Threads (NPT)	ASME B1.20.1	Size range	1/8" to 4" (DN6 to DN100)

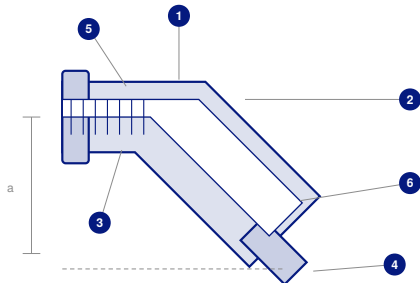
BILL OF MATERIALS


FIG. 2 | SECTIONAL ARRANGEMENT

#	FEATURE	DESCRIPTION
1	Body	Stainless steel, 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	Cast marking	Grade, size and class marked on the body

One piece fitting with no seals or moving parts. Sealing is made on the threads using PTFE tape or an approved thread sealant. The full Class 150 range is stocked in matching sizes.

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 make up. Sizes 1/8", 1/4" and 4" are offered but are not listed above. Figures follow the general threaded fitting pattern and are indicative for cast stainless Class 150 fittings, which vary between makes. Confirm with SWBM before they are used for pipe cutting, spool fabrication or any dimensioned submittal. Masses are not published for this item and are therefore not stated.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0154
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	Stainless steel, 304 or 316
Order example	SW-0154 / 3/4" / BSPT / SS316

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
Air and gas	16 bar (232 psi) nominal at ambient
Temperature range	-40°C to +200°C nominal
Service	Non-shock, chloride bearing media acceptable

Pressure and temperature figures are nominal values typical of cast stainless Class 150 threaded fittings. Confirm the rating for the make supplied before use in a rated or certified system.

TYPICAL APPLICATIONS

- Potable and process water systems
- Food, beverage and dairy utility lines
- Marine and coastal installations
- Chemical dosing and washdown pipework
- Instrument and sampling connections
- General corrosion resistant pipework

COMPLIANCE AND QUALITY

- Material stainless steel, 304 or 316 to order
- Taper external threads to ISO 7-1 / BS 21
- NPT threads to ASME B1.20.1 available to order
- Pickled and passivated surface finish
- Air tightness tested before despatch
- Material test certificate EN 10204 3.1 on request
- Suitable for potable water and food contact service

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
- Use a dedicated stainless tool set to avoid iron contamination
- Tighten on the fitting body or hexagon, never on the pipe run
- Do not over-tighten, stainless threads gall when they are forced
- Pressure test the joint before covering or insulating the line

COMPANY

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