



SS CL150 UNION

Three Piece Union · Stainless Steel 316 · Conical Seat

SKU: SW-0162

BRAND: SW FLOW CONTROLS

SIZE 1/8" TO 4"

CL150 / SS316



FIG. 1 | SS CL150 UNION, THREE PIECE, FEMALE THREADED

PRODUCT OVERVIEW

The SWBM SS CL150 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. All three parts are investment cast in austenitic stainless steel.

Fitting type	Three piece union, conical seat
Function	Demountable joint in a threaded line
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

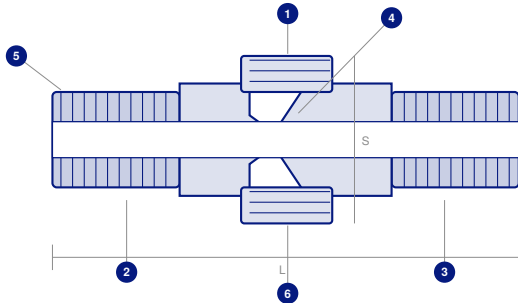


FIG. 2 | SECTIONAL ARRANGEMENT

#	FEATURE	DESCRIPTION
1	Union nut	Stainless steel, hexagon
2	Tail piece, cone side	Stainless steel, machined male cone side
3	Tail piece, seat side	Stainless steel, 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	Cast marking	Grade, size and class marked on the body

Flat seat unions with a 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 general threaded union pattern. Length L is a general indicative figure for a three piece 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.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0162
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-0162 / 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
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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