



SS304 SMS FOOD GRADE CLAMP

Single Pin Heavy Duty Sanitary Clamp · SS 304 · SMS Ferrule Pattern

BRAND: SW FLOW CONTROLS

SKU: SW-0098

SIZE 1/2" TO 4"

SS 304



FIG. 1 | SS304 SMS FOOD GRADE CLAMP

PRODUCT OVERVIEW

The SWBM SS304 SMS Food Grade Clamp is a single pin heavy duty clamp that draws two sanitary ferrule faces together onto a seal ring. A single bolt and wing nut allow the joint to be made and broken by hand, with no tools required.

The clamp body is investment cast and polished, with a hinged segment that opens fully so the clamp can be fitted without removing adjacent pipework. Sized to the SMS ferrule pattern, it suits ferrules, butterfly valves, sight glasses and instrument connections of matching size.

Product type	Single pin heavy duty clamp
Operation	Hand tightened wing nut
Body material	SS 304 (1.4301)
Pattern	SMS ferrule face
Size range	1/2" to 4"
Finish	Investment cast, polished

TECHNICAL SPECIFICATION

Design pattern	SMS ferrule face	Mating seal	EPDM, silicone, NBR, FKM or PTFE
Body material	SS 304 (1.4301)	Joint pressure	Seal and ferrule dependent, indicative
Bolt and wing nut	SS 304	Temperature range	Set by the seal compound
Hinge pin	SS 304	Reusable	Yes, subject to inspection
Manufacture	Investment cast	SS 316 option	Available on request
Finish	Polished, food grade		

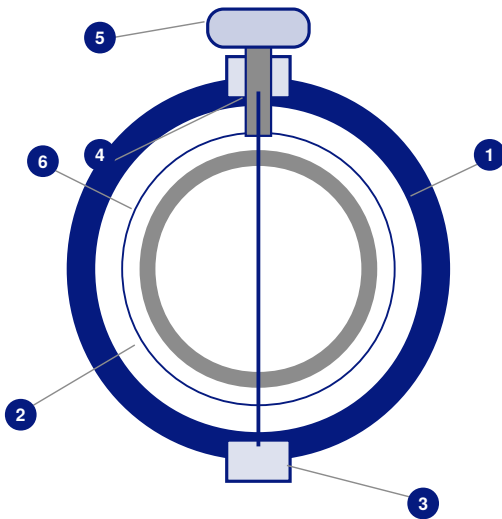


PRODUCT DATA SHEET

SS304 SMS FOOD GRADE CLAMP

Ref. SW-0098 | Rev. 01

BILL OF MATERIALS



#	COMPONENT	MATERIAL
1	Clamp segment, upper	SS 304 (1.4301)
2	Clamp segment, lower	SS 304 (1.4301)
3	Hinge pin	SS 304
4	Bolt	SS 304
5	Wing nut	SS 304
6	Seal ring (not supplied)	EPDM or silicone, see SW-0101

Items 1 to 5 make up the supplied clamp. The seal ring and the mating ferrules are ordered separately. SS 316 clamp bodies are available on request for aggressive washdown environments.

FIG. 2 | CLAMP, END VIEW

DIMENSIONS AND WEIGHTS

SIZE	ØA INSIDE (MM)	B OUTSIDE (MM)	MATING FERRULE Ø	FASTENING
1/2"	28.4	48.0	25.2	Single bolt, wing nut
3/4"	28.4	48.0	25.2	Single bolt, wing nut
1"	53.9	72.7	50.5	Single bolt, wing nut
1.1/2"	53.9	72.7	50.5	Single bolt, wing nut
2"	67.4	86.5	64.0	Single bolt, wing nut
2.1/2"	80.9	99.0	77.5	Single bolt, wing nut
3"	94.4	113.5	91.0	Single bolt, wing nut
4"	122.4	145.0	119.0	Single bolt, wing nut

ØA is the clamped inside diameter, B is the overall outside diameter of the closed clamp. Note that 1/2" and 3/4" share one clamp size, as do 1" and 1.1/2", because the ferrule flange diameter is common across those pairs. Dimensions are nominal and are given for guidance only. Mass is not tabulated.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0098
Size	1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"
Material	SS 304 standard. SS 316 on request
Type	Single pin heavy duty
Seal	Ordered separately, see SW-0101
Order example	SW-0098 / 2" / SS304 / SINGLE PIN

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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SERVICE CONDITIONS

Joint pressure	Governed by ferrule and seal
Temperature range	Governed by the seal compound
Steam sterilisation	Suitable, EPDM or silicone seal
CIP chemicals	Caustic and nitric acid cleaners
Washdown	Suitable, SS 316 preferred in chlorides

The clamp itself does not set the pressure or temperature rating of the joint. Those are governed by the ferrule pattern, the seal compound and the tube wall. Confirm the duty with SWBM before use on steam or in chloride bearing washdown environments.

TYPICAL APPLICATIONS

- Dairy processing and milk reception lines
- Brewing, beverage and juice plant
- Pharmaceutical and biotech process piping
- Edible oil and food ingredient transfer
- CIP and SIP circuits
- Hygienic water and process utility lines

COMPLIANCE AND QUALITY

- Dimensioned to the SMS ferrule pattern
- Austenitic stainless steel, EN 10088-2
- Investment cast and polished, no rough as cast surfaces
- Hand operated, no tools required to make or break the joint
- Hinged design allows fitting without dismantling adjacent pipework
- Material test certificate EN 10204 3.1 on request
- SS 316 bodies available for chloride bearing environments

INSTALLATION AND OPERATION

- Check that the clamp size matches the ferrule flange diameter
- Fit the seal into the ferrule face before closing the clamp
- Close the clamp squarely so the load is even around the joint
- Tighten the wing nut by hand until the joint is firm, do not over compress
- Do not use a spanner or lever on the wing nut
- Inspect the hinge pin and bolt thread for wear at every strip down

COMPANY

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