



SS316 SMS FOOD GRADE REDUCING TEE

Sanitary Reducing Butt Weld Tee · SS 316L · SMS 1145

BRAND: SW FLOW CONTROLS

SKU: SW-0094

SIZE 1" TO 4"

SS 316L / SMS 1145



FIG. 1 | SS316 SMS FOOD GRADE REDUCING TEE

PRODUCT OVERVIEW

The SWBM SS316 SMS Food Grade Reducing Tee takes a smaller branch off a full bore run. It is used for sampling points, dosing connections, CIP returns and instrument tappings where a full size branch is not needed.

The branch is extruded from the run wall, giving a smooth radiused junction with no welded stub and no internal crevice. All three ends are plain for butt welding to SMS tube. Standard material is SS 316L, with SS 304 available on request.

Fitting type	Reducing butt weld tee
Branch	Extruded, 90°, reduced bore
Body material	SS 316L (1.4404)
End connection	Plain, butt weld, 3 ends
Internal finish	Ra ≤ 0.8 µm
Size range	1.1/2" x 1" to 4" x 3"

TECHNICAL SPECIFICATION

Design standard	SMS 1145	Internal finish	Ra ≤ 0.8 µm, mechanically polished
Material, standard	SS 316L (1.4404)	External finish	Satin polished, 180 grit
Material, option	SS 304 (1.4301)	Working pressure	10 bar at 20°C, indicative
Material standard	ASTM A270 / EN 10088-2	Temperature range	-20°C to +150°C
Manufacture	Cold formed, seam welded and drawn	Welding	Orbital or manual TIG, no filler required
End preparation	Plain, for butt welding		

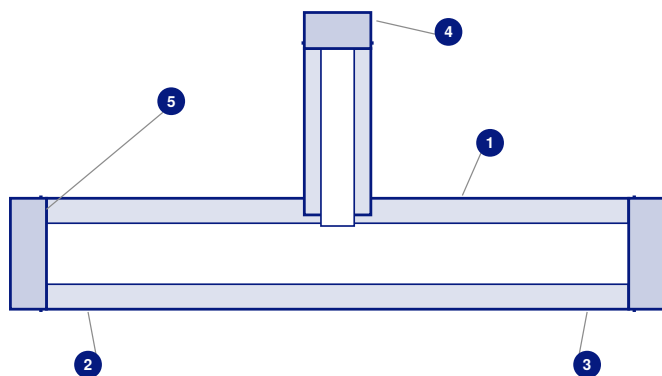


PRODUCT DATA SHEET

SS316 SMS FOOD GRADE REDUCING TEE

Ref. SW-0094 | Rev. 01

BILL OF MATERIALS



#	COMPONENT	MATERIAL
1	Fitting body (supplied item)	SS 316L (1.4404)
2	Process tube, inlet	SS 316L, ordered separately
3	Process tube, outlet	SS 316L, ordered separately
4	Process tube, branch	SS 316L, ordered separately
5	Butt weld joint	Orbital or manual TIG, filler free

Item 1 only is supplied under this reference. The tube sections and weld joints are shown to illustrate the installed arrangement and are ordered separately. SS 304 is available as an alternative body material on request.

FIG. 2 | REDUCING TEE, SECTIONAL ARRANGEMENT

DIMENSIONS AND WEIGHTS

SIZE (RUN X BRANCH)	RUN ØA (MM)	BRANCH ØB (MM)	WALL T (MM)	L1 (MM)	L RUN (MM)
1.1/2" x 1"	38.0	25.0	1.25	21.0	140
2" x 1"	51.0	25.0	1.25	29.0	164
2" x 1.1/2"	51.0	38.0	1.25	29.0	164
2.1/2" x 1"	63.5	25.0	1.50	34.5	210
2.1/2" x 1.1/2"	63.5	38.0	1.50	35.0	210
2.1/2" x 2"	63.5	51.0	1.50	36.0	210
3" x 1"	76.1	25.0	1.60	41.0	220
3" x 1.1/2"	76.1	38.0	1.60	42.0	220
3" x 2"	76.1	51.0	1.60	43.0	220
3" x 2.1/2"	76.1	63.5	1.60	43.0	220
4" x 2"	104.0	51.0	2.00	57.0	300
4" x 2.1/2"	104.0	63.5	2.00	58.0	300
4" x 3"	104.0	76.1	2.00	58.0	300

L is the overall run, face to face. L1 is measured from the run centreline to the branch face in the short branch pattern. Wall thickness shown is that of the run. Wall thickness follows the SMS schedule: 1.25 mm for DN25 to DN51, 1.50 mm for DN63.5, 1.60 mm for DN76.1 and 2.00 mm for DN104. Dimensions are nominal and are given for guidance only. Mass varies with wall and polish and is not tabulated. Certified drawings for the supplied make are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0094
Size	Run 1.1/2" to 4", branch 1" to 3"
Material	SS 316L standard. SS 304 on request
Branch pattern	Short branch standard
Finish	Ra ≤ 0.8 µm internal, 180 grit external
Order example	SW-0094 / 3" x 2" / SS316L

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

Working pressure, 20°C	10 bar, indicative
Temperature range	-20°C to +150°C
Steam sterilisation	Suitable, subject to system design
CIP chemicals	Caustic and nitric acid cleaners
Vacuum service	Suitable, subject to wall thickness

Pressure and temperature figures are typical for welded SMS tube systems in food service and are given for guidance only. The rating of the finished pipework is governed by the tube wall, the weld quality and the system design, not by the fitting alone. Confirm the duty with SWBM before use outside the ranges above.

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 1145 sanitary standard
- Austenitic stainless steel, EN 10088-2 / ASTM A270
- Crevice free bore, no internal ledges or dead legs
- Mechanically polished internal surface for CIP cleanability
- Material test certificate EN 10204 3.1 on request
- Suitable for steam sterilisation and CIP / SIP regimes
- Batch traceable to heat number on request

INSTALLATION AND OPERATION

- Degrease and clean the tube ends before fitting up
- Align the bore accurately, internal misalignment creates a product trap
- Butt weld with orbital or manual TIG under back purge
- Purge with argon until the weld root is fully oxide free
- Passivate the weld zone after fabrication
- Do not grind the internal bore, this destroys the surface finish

COMPANY

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