



SS CL150 REDUCING BUSH

Hexagon Reducing Bush · Stainless Steel 316 · Class 150

SKU: SW-0163

BRAND: SW FLOW CONTROLS

SIZE 1/8" TO 4"

MALE X FEMALE



FIG. 1 | SS CL150 REDUCING BUSH, HEXAGON FLANGE

PRODUCT OVERVIEW

The SWBM SS CL150 Reducing Bush screws into a female outlet and presents a smaller female thread. It is the most compact way to step a connection down in size, and is widely used to fit a small valve, gauge or instrument into a larger tapping.

The hexagon flange gives a spanner grip for tightening. The body is investment cast in austenitic stainless steel, with a male taper thread outside and a female thread through the bore.

Fitting type	Hexagon reducing bush
Function	Steps an outlet down in size
Material	Stainless steel, investment cast
End connection	Male outside, female bore
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	Male outside, female bore
Threads (NPT)	ASME B1.20.1	Size range	1/8" to 4" (DN6 to DN100)



BILL OF MATERIALS

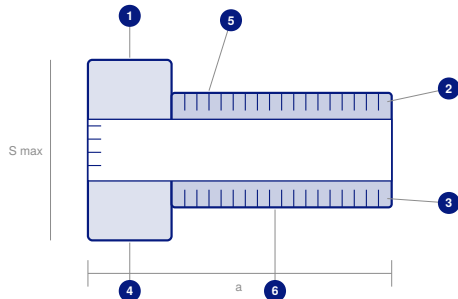


FIG. 2 | SECTIONAL ARRANGEMENT

#	FEATURE	DESCRIPTION
1	Hexagon flange	Six flats for spanner tightening
2	Male thread	Taper R to ISO 7-1, or NPT
3	Female thread	Parallel Rp to ISO 228-1, or NPT
4	Bearing face	Flange face seating on the fitting
5	Internal shoulder	Stop limiting entry of the small pipe
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 1	SIZE 2	DN 1	DN 2	A (MM)	Z (MM)	S MAX (MM)
3/8"	1/4"	10	8	20	10	19
1/2"	1/4"	15	8	24	14	22
1/2"	3/8"	15	10	24	14	22
3/4"	3/8"	20	10	26	18	30
3/4"	1/2"	20	15	26	13	30
1"	1/2"	25	15	29	16	36
1"	3/4"	25	20	29	14	36
1.1/4"	3/4"	32	20	31	16	46
1.1/4"	1"	32	25	31	14	46
1.1/2"	1"	40	25	31	14	50
1.1/2"	1.1/4"	40	32	31	12	50
2"	1"	50	25	35	18	65
2"	1.1/2"	50	40	35	16	65
2.1/2"	2"	65	50	40	16	80
3"	2"	80	50	44	20	95
3"	2.1/2"	80	65	44	17	95
4"	3"	100	80	51	21	120

Size 1 = male thread, size 2 = female bore. a = overall length, z = assembly length after make up, S max = hexagon across flats. Combinations other than those listed are offered against enquiry. Figures are indicative for cast stainless Class 150 fittings and masses are not published.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0163
Size	1/8" to 4", reducing combinations as listed
Thread	BSPT or NPT, as ordered
Material	Stainless steel, 304 or 316
Order example	SW-0163 / 1" x 1/2" / 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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