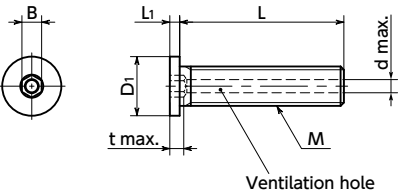


SVSHS-SD Vented Socket Head Cap Screws with Ultra Low Profile & Small Head

SUS Stainless steel Vacuum Protrusion Cleanroom wash & packaging Small Head



Material/Finish



	SVSHS-SD
Main Body	SUSXM7 (Equivalent to SUS304)
Strength Class	A2 - 50

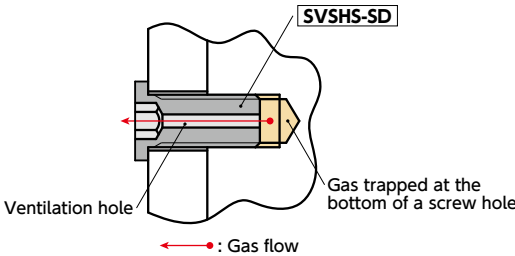


- Special low profile small head screws with ventilation holes.
- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- All head heights are 1.5 mm or less. For space-saving of equipment/devices and applications with limited overhead space.
- Because the head diameter is small, spot facing diameters can be reduced compared to standard hex socket head cap screws with ultra low heads.
- Cleanroom wash/cleanroom packing provided.

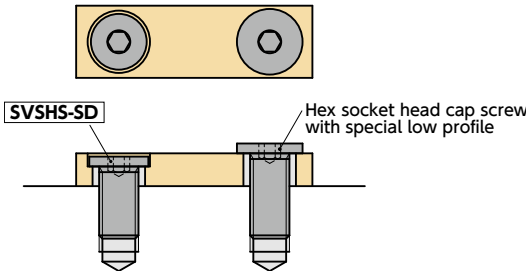
Application

Vacuum devices / Vacuum chambers / FPD production equipment / Semiconductor manufacturing equipment / Electron microscopes

- Usage Example
Effective with vacuum devices and vacuum chambers that require the exhaustion of gas trapped in screw holes.



It is possible to perform spot facing and hide the head in locations where spot facing is not possible with standard hex socket head cap screws with special low profiles.



Precautions for Use

- Since the head bearing surface area is small, the bearing surface pressure increases.
- Using the following formula as a reference, ensure that the bearing surface pressure due to screw tightening does not exceed the permitted surface pressure of the intended fastening material.

$$P = \sigma \frac{As}{A}$$

P: Bearing surface pressure (N/mm²)

σ : Bolt stress (N/mm²)

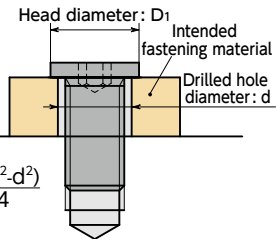
As: Screw effective cross-sectional area (mm²)

A: Bearing surface area (mm²)

$$\text{Bearing surface area } A = \pi \frac{(D_1^2 - d^2)}{4}$$

D₁: Head diameter (mm)

d: Drilled hole diameter (mm)



Head Diameter and Screw Effective Cross-Sectional Area

Part Number	Head Diameter (mm)	Screw Effective Cross-Sectional Area (mm ²)
SVSHS-M3-SD	5	5.03
SVSHS-M4-SD	6	8.78
SVSHS-M5-SD	8	14.2
SVSHS-M6-SD	9	20.1

Unit: mm

Part Number	M (Coarse)		L						D ₁	L ₁	B	t	d	Mass (g)	Qty per Pack
	Nominal of Thread	Pitch													
SVSHS-M3-SD	M3	0.5	6	8	10				5	1.3	1.5	2	1.2	0.41 - 0.61	20
SVSHS-M4-SD	M4	0.7	6	8	10	12	16		6	1.5	2	2.5	1.5	0.73 - 1.4	20
SVSHS-M5-SD	M5	0.8	6	8	10	12	16	20	8	1.5	3	3	1.5	1.1 - 2.8	10
SVSHS-M6-SD	M6	1	6	8	10	12	16	20	9	1.5	3	4	2	1.5 - 4	10

- When purchasing less volume than one full bag, a separate handling fee is charged. For details, see the Sold Separately Service.

Part Number Specification

SVSHS-M5-20-SD

Individual Sales	Cleanroom Wash & Packaging	Screw Length Adjustment	Vibration Resistant	Modification process for captive use
Available / Add'l charge	Cleanroom washed and packed	Available / Add'l charge	Not Available	Not Available