

# SVSI Hex Socket Head Cap Screws (Inconel equiv.) with Ventilation Hole

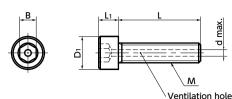












## Material/Finish



	SVSI
Main Body	UNS N06600 (Inconel*1600 equiv.)

\*1: Inconel is a registered trademark of Special Metals Corporation.

#### Mechanical property

	Inconel (UNS N06600)	SUS304
Tensile Strength (N/mm²)	548 - 695	520 or More
0.2% Proof Load (N/mm <sup>2</sup> )	205 - 352	205 or More
Elongation (%)	35 - 55	40 or More
Hardness (HRB)	65 - 85	90 or Less

• Values in chart are for reference only. They are not guaranteed values.

# • Physical property

	Inconel (UNS N06600)	SUS304
Specific Gravity	8.42	7.93
Longitudinal Elastic Modulus (GPa)	207	193
Specific Heat (J/kg·K)	444	500
Electric Resistance ( $\mu\Omega \cdot m$ )	1.0	0.7
Thermal Conductivity (W/( $m \cdot K$ ))	16.7	17
Linear Expansion Coefficient (K-1)	13.4 × 10 <sup>-6</sup>	17.3 × 10 <sup>-6</sup>

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- Inconel hex socket head cap screws **SNSI** with ventilation hole.
- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- Excellent corrosion resistance against oxidizing and reducing organic and inorganic acids. → P.xxxx
- Excellent resistance to stress corrosion cracking due to chlorine ions.
- Demonstrates almost total corrosion resistance to ammonia.
- Excellent heat resistance and creep resistance. Retains high strength even near 600℃.
- Supports use with vacuum equipment in hightemperature and corrosive environments.
- Cleanroom wash/cleanroom packing provided. → P. XXXX

## Application

Vacuum devices / Vacuum chambers / FPD production equipment / Semiconductor manufacturing equipment / Electron microscopes / Printed circuit board etching devices / Metallic surface treatment equipment and facilities / Chemical plants

																Unit:mm
Part Number 1	M (Coarse)		1.40									D <sub>1</sub>			d	Mana (m)
	Nominal of Thread	Pitch	L 🔁								D1	L1	В	d max.	Mass (g)	
SVSI-M3	M3	0.5	6	8	10	12	16	20				5.5	3	2.5	1.2	0.77 - 1.5
SVSI-M4	M4	0.7		8	10	12	16	20	25			7	4	3	1.5	1.8 - 3.4
SVSI-M5	M5	8.0			10	12	16	20	25			8.5	5	4	1.5	2.9 - 5.2
SVSI-M6	M6	1				12	16	20	25	30		10	6	5	2	5.5 - 9
SVSI-M8	M8	1.25					16	20	25	30	35	13	8	6	2	13 - 21

• Part number specification



Batch cleanroom packing is provided for orders containing multiple items of the same size.

