

Ventilation hole

 Material/Finish 	🗘 Rohs
	SVST-SD
Main Body	TW340 (Grade 2 Titanium)

• Mechanical Properties

	TW340 (Grade 2 Titanium)					
Tensile Strength (N/mm ²)	340 - 510					
0.2% Proof Load (N/mm ²)	215 or Higher					
Elongation (%)	23 or Higher					

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

• Physical Properties

Individual Sales

1 piece in 1 pack

	TW340 (Grade 2 Titanium)
Specific Gravity	4.51
Melting Point (°C)	1668
Longitudinal Elastic Modulus (GPa)	106
Thermal Conductivity (W/(m·K))	17.16
Linear Expansion Coefficient (K-1)	8.4 × 10 ⁻⁶
Electric Resistance ($\mu \Omega \cdot m$)	0.55
Magnetic Permeability (μ)	1.0001 (Nonmagnetic)

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



- Small head screws with ventilation holes. Because the head diameter is small, spot facing diameters can be reduced compared to standard hex socket head cap screws.
- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- The specific gravity is approximately 60% that of stainless steel.
- Non-magnetic.
- Excellent chemical resistance / seawater resistance.
- Special chemical polishing and brightening treatment improve the quality of the surface. Additionally, products have been cleanroom washed and packed. Cleanroom specification prevents oil and dirt from adhering.
- For the properties of titanium materials, see "Properties of Titanium."

Application

💉 Cleanroom Wash & Packaging 🛛 🚔 Screw Length Adjustment < 💶 Vibration Resistant 🛛 🎽 Modification process for captive use

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

Not Available

															Unit : mm
Dout Number 41	M (Coarse)												d		
	Nominal of Thread Pitch				D1	LI	D	u	Mass (g)						
SVST-M3-SD	M3	0.5	5	6	8	10	12	16	20		4.5	3	2.5	1.2	0.27 - 0.66
SVST-M4-SD	M4	0.7			8	10	12	16			5.5	4	3	1.5	0.67 - 1
SVST-M5-SD	M5	0.8				10	12	16	20	25	7	4.5	4	1.5	1.1 - 2.3

Cleanroom washed and packed Available / Add'l charge Not Available

Usage Example

Gas trapped at the bottom of the screw hole is released through **SVST-SD**, and gas trapped in the drilled hole is released through **SWAT-VF**.



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.





A 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.



• Head Diameter and Screw Effective Cross-Sectional Area

Part Number	Head Diameter (mm)	Screw Effective Cross-Sectional Area (mm ²)
SVST-M3-SD	4.5	5.03
SVST-M4-SD	5.5	8.78
SVST-M5-SD	7	14.2

Related Products

For ventilation of drilled holes, please use **SWAT-VF**.



SVST-M5	·16·	SD
1	<2	-1

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

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