



• Socket Head Cap Screws (with Ventilation Hole)

	Socket Head Cap Screws					
Part Number	SVSS	SVSS-PC	SVSQS	SVSS (INCH)	SVSS-MOS	SVSS-AG
Shape						
Page	P.565	P.565	P.567	P.568	P.569	P.570
Materials	SUSXM7	SUSXM7 Chemical Polish	SUSXM7	SUSXM7	SUSXM7 MoS2 Shot	SUSXM7 Silver Plating
Characteristics	Standard	Low Outgas	Built-in Washers	Inch Screws	Seizing Prevention	Seizing Prevention
Size	M2 - M12	M3 - M12	M3 - M12	No.4-40UNC - 1/4-20UNC	M3 - M8	M3 - M8

	Socket Head Cap Screws			Socket Head Cap Screws with Low Profile	Socket Head Cap Screws with Special Low Profile	Hex Socket Countersunk Head Screws
Part Number	SVSX-88	SVSL	SVST	SVLS	SVSHS	SVFCS
Shape						
Page	P.571	P.572	P.573	P.574	P.575	P.576
Materials	SUS316L HiMo	SUS316L	TB340C (Grade 2 Titanium)	SUSXM7	SUSXM7	SUSXM7
Characteristics	High Strength (Strength Class 8.8)	Corrosion Resistance	Lightweight • Nonmagnetic • Chemical Resistance	Low Profile Small Space	Special Low Profile Small Space	Hex Socket Counter- sunk Head Screws Small Space
Size	M3 - M6	M3 - M12	M3 - M5	M3 - M10	M3 - M6	M3 - M8

• Hex Head Screws (with Ventilation Hole)

	Hex Head Screws
Part Number	SVHS
Shape	
Page	P.577
Materials	SUSXM7
Characteristics	Hex Head Screws
Size	M3 - M8

• Cross Recessed Machine Screws (with Ventilation Hole)

	Cross Recessed Flat Head Machine Screws		Phillips Cross Recessed Pan Head Machine Screws	
Part Number	SVFS	SVFT	SVPS	SVPT
Shape				
Page	P.578	P.579	P.580	P.581
Materials	SUSXM7	TW270 (Grade 1 Titanium)	SUSXM7	TW270 (Grade 1 Titanium)
Characteristics	Flat Head Machine Screws Small Space	Lightweight • Nonmagnetic • Chemical Resistance	Pan Head Machine Screw	Lightweight • Nonmagnetic • Chemical Resistance
Size	M2 - M6	M3 - M5	M3 - M8	M3 - M4

• Hex Socket Set Screws (with Ventilation Hole)

	Phillips Cross Recessed Set Screws
Part Number	SVTS
Shape	
Page	P.582
Materials	SUSXM7
Characteristics	Set Screw
Size	M3 - M8

• Washers (with Ventilation Grooves)

	Washers		
Part Number	SWAS-VF	SWAS-VF-PC	SWAT-VF
Shape			
Page	P.583	P.583	P.584
Materials	SUS304	SUS304 Chemical Polishing	TP340C (Grade 1 Titanium)
Characteristics	Standard	Low Outgas	Lightweight • Nonmagnetic
Size	Nominal 3 to 12	Nominal 3 to 12	Nominal 3 to 5

• Hex Posts (with Ventilation Hole)

	Hex Posts	
Part Number	SHVAS	SHVBS
Shape		
Page	P.585	P.586
Materials	SUS304	SUS304
Characteristics	Single - end Female Screw Type	Double - end Female Screw Type
Size	M3 - M8	M3 - M8

• Fixing and Locating (with Ventilation Hole)

	Clamping Set Screws		Clamping Cap Screws		Spring Plunger with Ball
Part Number	SCSS-VR	SCSS-VF	SCBS-VR	SCBS-VF	PVFS
Shape					
Page	P.587	P.587	P.588	P.588	P.589
Materials	Body : SUSXM7 Ball : SUS440C	Body : SUSXM7 Ball : SUS440C	Body : SUSXM7 Ball : SUS440C	Body : SUSXM7 Ball : SUS440C	Body : Stainless Steel (A2) Ball : SUS440C
Characteristics	For Fixing • Full Ball	For Fixing • Flat Ball	For Fixing • Full Ball	For Fixing • Flat Ball	For Locating
Size	M5 - M10	M5 - M10	M5 - M10	M5 - M10	M5 - M10

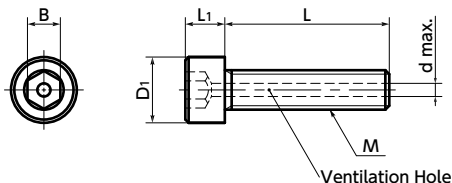
• High Performance Socket Head Cap Screws

	Socket Head Cap Screws with Special Low Profile	Cover Caps		Socket Head Cap Screws for Cover Caps
Part Number	SSHs-HB	SCAP-AL	SCAP-CE	SNCPS
Shape				
Page	P.590	P.591	P.591	P.591
Materials	SUSXM7 Blasting (Head Only)	A5056	Al ₂ O ₃ 99.5% Alumina	SUSXM7
Characteristics	Peeling Prevention for Deposits	Low Outgas • Corrosion Resistance	Heat Resistance • Chemical Resistance • Electrical Insulation	For Cover Caps
Size	M3 - M6	M3 to M10	M3 to M10	M3 - M10



SVSS Hex Socket Head Cap Screws with Ventilation Hole

WEB Selection Tool CAD Download SUS Stainless steel Vacuum Cleanroom wash & packaging



Material/Finish RoHS2 Compliant

	SVSS	SVSS-PC
Main Body	SUSXM7 (Equivalent to SUS304)	SUSXM7 (Equivalent to SUS304) Chemical Polish
Strength Class	A2-70	A2-70

Part number specification

SVSS - M5 - 25 - PC

Product Code

Order in number of packs.
Also sold separately from 1 piece up.

- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- Cleanroom wash and cleanroom packing are completed.
- SVSS-PC** has an improved surface coarseness by chemical polishing. Outgas quantity is extremely low. Suitable for the use under medium vacuum environments.
- Ventilation holes are made using a method that has little effect on metal structure. The occurrence of outgas under vacuum environment and brittle fracture during usage are suppressed respectively.

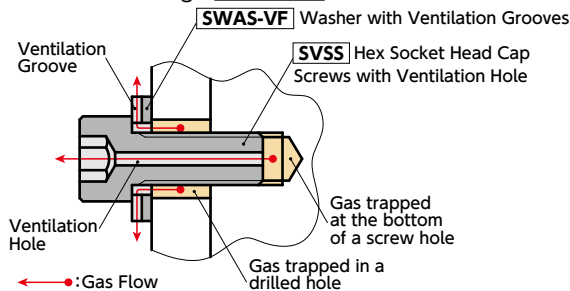
Application

Vacuum devices, vacuum chambers, FPD production equipment, semiconductor devices, and electron microscopes

SVSS		SVSS-PC		Common dimensions																Unit : mm	
No Surface Treatment		Chemical Polish																			
Part Number	Part Number	M	L																	D1	L1
																				B	d
SVSS-M2		M2	3	4	5	6	8	10												3.8	2
SVSS-M2.5		M2.5		4	5	6	8	10	12											4.5	2.5
SVSS-M3	SVSS-M3-PC	M3			5	6	8	10	12	16										5.5	3
SVSS-M4	SVSS-M4-PC	M4			5	6	8	10	12	16	20	25	30	35	40					7	4
SVSS-M5	SVSS-M5-PC	M5				6	8	10	12	16	20	25	30	35	40	45	50			8.5	5
SVSS-M6	SVSS-M6-PC	M6					8	10	12	16	20	25	30	35	40	45	50	60		10	6
SVSS-M8	SVSS-M8-PC	M8							12	16	20	25	30	35	40	45	50	60	13	8	6
SVSS-M10	SVSS-M10-PC	M10								16	20	25	30	35	40	45	50	60	16	10	8
SVSS-M12	SVSS-M12-PC	M12									16	20	25	30	35	40	45	50	18	12	10

Usage example

Gas trapped at the bottom of a screw hole is released through **SVSS**, and gas trapped in a drilled hole is released through **SWAS-VF** ().



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 Please feel free to contact us

Related Products

SVSQS Socket Head Cap Screws with Captive Washer and Ventilation Holes



SVST Socket Head Cap Screws - Titanium



SVSHS Hex Socket Head Cap Screws with Special Low Profile



SVFCS Hex Socket Countersunk Head Screws



SVSS-MOS Socket Head Cap Screws with MoS2 Shot



SVSS No Surface Treatment

Part Number	Qty*1 per pack
SVSS-M2	10
SVSS-M2.5	10
SVSS-M3	20
SVSS-M4	20*2
SVSS-M5	10
SVSS-M6	10
SVSS-M8	10*2
SVSS-M10	5
SVSS-M12	5

*1 : Also sold separately from 1 piece up.

*2 : Quantity per pack for **SVSS-M4-30** and **SVSS-M4-35** is 10 pieces. Quantity per pack for **SVSS-M8-60** is 5 pieces.

SVSS-PC Special Chemical Polishing

Part Number	Qty*1 per pack
SVSS-M3-PC	20
SVSS-M4-PC	20*2
SVSS-M5-PC	10
SVSS-M6-PC	10
SVSS-M8-PC	10*2
SVSS-M10-PC	5
SVSS-M12-PC	5

*1 : Also sold separately from 1 piece up.

*2 : Quantity per pack for **SVSS-M4-30-PC** and **SVSS-M4-35-PC** is 10 pieces. Quantity per pack for **SVSS-M8-60-PC** is 5 pieces.

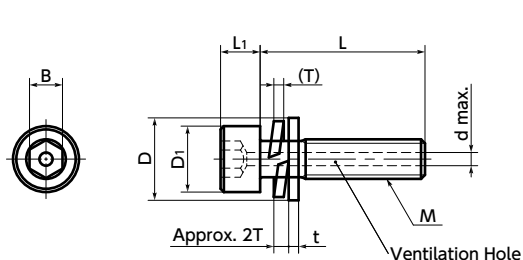
SVSQS

Hex Socket Head Cap Screws with Captive Washer and Ventilation Hole

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WEB Selection Tool CAD Download Vacuum Cleanroom wash & packaging Easy operation SUS Stainless steel



● Part number specification

SVSQS-M5-25



Order in number of packs.

Also sold separately from 1 piece up. ➔ P.809

- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- Flat washers and spring washers are captive, therefore prevent separation from screws.
- It is unnecessary to assemble washers. It simplifies work when wearing gloves in a clean room.
- Cleanroom wash and cleanroom packing are completed. ➔ P.807

● Application

Vacuum devices, vacuum chambers, FPD production equipment, semiconductor devices, and electron microscopes

● Material/Finish



	SVSQS
Screw Body	SUSXM7 (Equivalent to SUS304)
Screw Body Tensile Strength	A2-70
Plain Washer	SUS304
Spring Washer	SUS304

Part Number 1	M	L 2												D1	D	L1	B	t	T	d	Mass (g)
		5	6	8	10	12	16	20	25	30	35	40	45								
SVSQS-M3	M3													5.5	7	3	2.5	0.5	0.7	1.2	0.9 - 1.4
SVSQS-M4	M4													7	9	4	3	0.8	1	1.5	2.1 - 4.7
SVSQS-M5	M5													8.5	10	5	4	1	1.3	1.5	3.4 - 8
SVSQS-M6	M6													10	12.5	6	5	1.6	1.5	2	6.9 - 15
SVSQS-M8	M8													13	17	8	6	1.6	2	2	15 - 29
SVSQS-M10	M10													16	21	10	8	2	2.5	3	29 - 47
SVSQS-M12	M12													18	24	12	10	2.5	3	3	51 - 66

Part Number	Qty*1 per pack
SVSQS-M3	20
SVSQS-M4	10
SVSQS-M5	10
SVSQS-M6	10
SVSQS-M8	10
SVSQS-M10	5
SVSQS-M12	5

*1 : Also sold separately from 1 piece up. ➔ P.809

1 Individual Sales ➔ P.809	Cleanroom Wash & Packaging ➔ P.807	Screw Length Adjustment ➔ P.811	Vibration Resistant ➔ P.810	Modification process for captive use ➔ P.806
Available / Add'l charge	Cleanroom washed and packed	Available / Add'l charge	Not Available	Please feel free to contact us

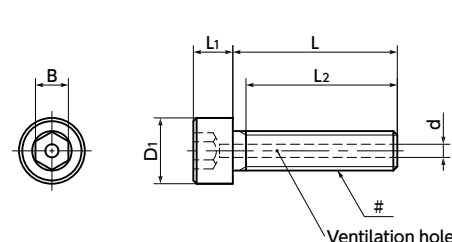
SVSS (INCH)

Hex Socket Head Cap Screws (with Ventilation Hole / Inch Screws)

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WEB Selection Tool CAD Download Vacuum Cleanroom wash & packaging SUS Stainless steel



● Application

Vacuum device / Vacuum container / FPD production device / Semiconductor manufacturing device / Electron microscope

● Material/Finish



	SVSS(INCH)
Main body	Equivalent to SUS304
Strength Class	A2-50

- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- Inch thread type.
- The ventilation hole is machined by a method that has less effect on metal structure. It suppress the brittle failure and generation of outgas in a vacuum environment during use.
- Cleanroom wash and cleanroom packing are completed. ➔ P.807

Part Number 1	# Nominal of Thread	L 2												D1	L1	L2 min.	B	d max. (mm)	Mass (g)
		3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4						
SVSS- # 4-40	No.4-40UNC													0.183	0.112	Full Thread	3/32	1	0.51 - 1.1
SVSS- # 5-40	No.5-40UNC													0.205	0.125	Full Thread	3/32	1.2	0.78 - 1.4
SVSS- # 6-32	No.6-32UNC													0.226	0.138	Full Thread	7/64	1.2	0.98 - 1.7
SVSS- # 8-32	No.8-32UNC													0.27	0.164	0.88	7/64	1.5	1.6 - 3.2
SVSS- # 10-24	No.10-24UNC													0.312	0.19	0.88	7/32	1.5	2.3 - 4.4
SVSS- # 10-32	No.10-32UNF													0.312	0.19	0.88	7/32	1.5	2.3 - 4.6
SVSS-1/4-20	1/4-20UNC													0.375	0.25	1	7/16	2	4.3 - 13

Part Number	Qty per pack*1
SVSS- # 4-40	10
SVSS- # 5-40	10
SVSS- # 6-32	10
SVSS- # 8-32	10
SVSS- # 10-24	10
SVSS- # 10-32	10
SVSS-1/4-20	10

*1 : Also sold separately from 1 piece up. ➔ P.809

● Part number specification

SVSS- # 4-40 - 1/4



Order in number of packs.

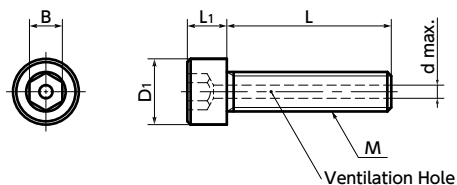
Also sold separately from 1 piece up. ➔ P.809

1 Individual Sales ➔ P.809	Cleanroom Wash & Packaging ➔ P.807	Screw Length Adjustment ➔ P.811	Vibration Resistant ➔ P.810	Modification process for captive use ➔ P.806
Available / Add'l charge	Cleanroom washed and packed	Available / Add'l charge	Not Available	Please feel free to contact us

SVSS-MOS Hex Socket Head Cap Screws with Ventilation Hole - MoS₂ Shot

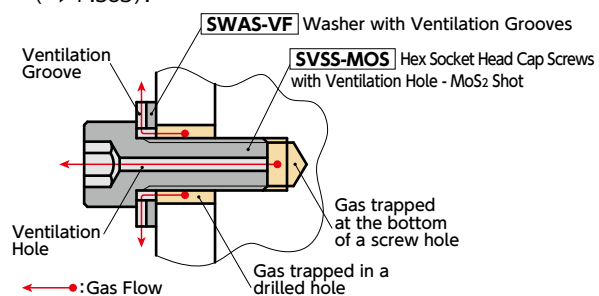
WEB Selection Tool
 WEB CAD Download
 Vacuum
 Cleanroom wash & packaging
 Seizing Prevention
 SUS Stainless steel

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● Usage example

Gas trapped at the bottom of a screw hole is released through **SVSS-MOS**, and gas trapped in a drilled hole is released through **SWAS-VF** (→ P.583).



● Part number specification

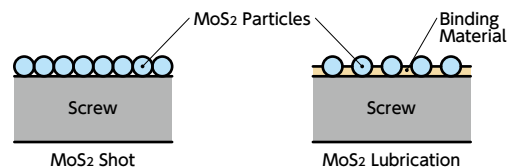
SVSS-M5-20-MOS

Product Code **1** **2** Product Code

Order in number of packs.

Also sold separately from 1 piece up. → P.809

- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- The MoS₂ particles shot by shot blast increase the lubrication of the screw and prevent seizing.
- Unlike a general MoS₂ lubrication, MoS₂ shot does not use a bonding agent so it is easy to identify contained materials.



● Application

Seizing Prevention

Vacuum devices, vacuum chambers, FPD production equipment, semiconductor devices, and electron microscopes

● Material/Finish



	SVSS-MOS
Main Body	SUSXM7 (Equivalent to SUS304)
	MoS ₂ Shot
Strength Class	A2-70

Unit : mm

Part Number	M	1	L	2							D1	L1	B	d	Mass (g)
SVSS-M3-MOS	M3	6	8	10	12	16					5.5	3	2.5	1.2	0.71 - 1.2
SVSS-M4-MOS	M4	6	8	10	12	16	20	25			7	4	3	1.5	1.5 - 3.2
SVSS-M5-MOS	M5	6	8	10	12	16	20	25			8.5	5	4	1.5	2.2 - 4.8
SVSS-M6-MOS	M6		8	10	12	16	20	25	30		10	6	5	2	4.3 - 8.3
SVSS-M8-MOS	M8				12	16	20	25	30	35	13	8	6	2	11 - 19

Part Number	Qty*1 per pack
SVSS-M3-MOS	20
SVSS-M4-MOS	10
SVSS-M5-MOS	10
SVSS-M6-MOS	10
SVSS-M8-MOS	10

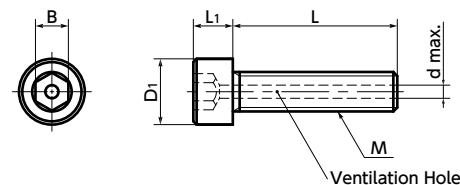
*1 : Also sold separately from 1 piece up. → P.809

Individual Sales → P.809	Cleanroom Wash & Packaging → P.807	Screw Length Adjustment → P.811	Vibration Resistant → P.810	Modification process for captive use → P.806
Available / Add'l charge	Cleanroom washed and packed	Not Available	Not Available	Not Available

SVSS-AG Hex Socket Head Cap Screws with Ventilation Hole - Silver Plating

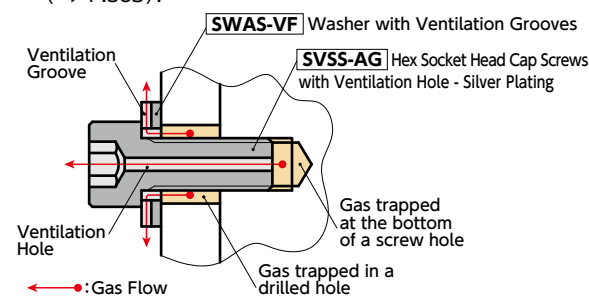
WEB Selection Tool
 WEB CAD Download
 Vacuum
 Cleanroom wash & packaging
 Seizing Prevention
 Electric conducting property
 SUS Stainless steel

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● Usage example

Gas trapped at the bottom of a screw hole is released through **SVSS-AG**, and gas trapped in a drilled hole is released through **SWAS-VF** (→ P.583).



- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- Silver plating. Excellent lubrication and electroconductivity. For the prevention of screw seizing and use in conductive sections of electronic parts.

● Electric Resistance

Silver: $1.6\mu\Omega \cdot \text{cm}$ (Gold: $2.3\mu\Omega \cdot \text{cm}$)

* This is the performance of the silver material.

● Application

Seizing Prevention

Vacuum devices, vacuum chambers, FPD production equipment, semiconductor devices, and electron microscopes

● Material/Finish



	SVSS-AG
Main Body	SUSXM7 (S.S. grade : A2)
	Silver Plating
Strength Class	A2-70

● Part number specification

SVSS-M5-20-AG

Product Code **1** **2** Product Code

Unit : mm

Part Number	M	1	L	2							D1	L1	B	d	Mass (g)
SVSS-M3-AG	M3	6	8	10	12	16					5.5	3	2.5	1.2	0.71 - 1.2
SVSS-M4-AG	M4	6	8	10	12	16	20	25			7	4	3	1.5	1.5 - 3.2
SVSS-M5-AG	M5	6	8	10	12	16	20	25			8.5	5	4	1.5	2.2 - 4.8
SVSS-M6-AG	M6		8	10	12	16	20	25	30		10	6	5	2	4.3 - 8.3
SVSS-M8-AG	M8				12	16	20	25	30	35	13	8	6	2	11 - 19

Part Number	Qty per pack
SVSS-M3-AG	1
SVSS-M4-AG	1
SVSS-M5-AG	1
SVSS-M6-AG	1
SVSS-M8-AG	1

Individual Sales → P.809	Cleanroom Wash & Packaging → P.807	Screw Length Adjustment → P.811	Vibration Resistant → P.810	Modification process for captive use → P.806
1 unit in 1 bag	Cleanroom washed and packed	Not Available	Not Available	Not Available

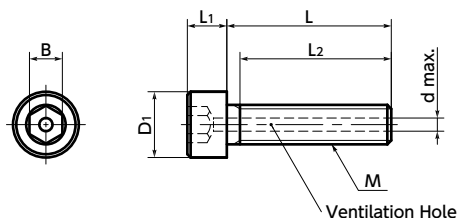
SVSX

Hex Socket Head Cap Screws with Ventilation Hole - High Intensity S.S.

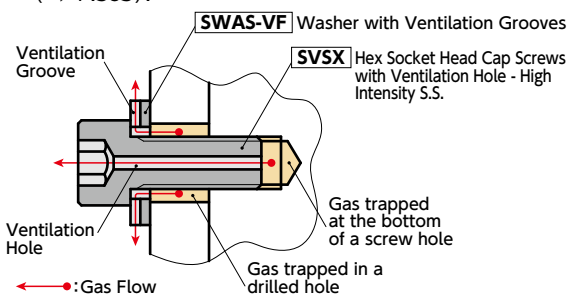
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WEB Selection Tool WEB CAD Download Vacuum Cleanroom wash & packaging Heat-resistance Chemical-proof Non-Magnetic High strength SUS Stainless steel



- Usage example
Gas trapped at the bottom of a screw hole is released through **SVSX**, and gas trapped in a drilled hole is released through **SWAS-VF** (→ P.583).



- Part number specification

SVSX - M5 - 25 - 88Product Code **1** **2** Strength Class

													Unit : mm			
Part Number	M	1	L	2							D1	L1	L2*1	B	d	Mass (g)
SVSX-M3-88	M3	6	8	10	12	16	20	25		5.5	3	18(L=25)	2.5	1.2	0.71 - 1.6	
SVSX-M4-88	M4	6	8	10	12	16	20	25		7	4	Full Thread	3	1.5	1.5 - 3.2	
SVSX-M5-88	M5			10	12	16	20	25	30	8.5	5	22(L=30)	4	1.5	2.7 - 5.6	
SVSX-M6-88	M6				12	16	20	25	30	10	6	Full Thread	5	2	5.1 - 8.3	

*1: If the "L" value is other than the value in parentheses, the screw is full thread.

Part Number	Qty per pack
SVSX-M3-88	1
SVSX-M4-88	1
SVSX-M5-88	1
SVSX-M6-88	1

- Made of high strength stainless steel (Strength class 8.8).
- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- Excellent heat resistance and corrosion resistance.
- Nonmagnetic.
- About the characteristics of SUS316L HiMo → P.625

- Application

Vacuum devices, vacuum chambers, FPD production equipment, semiconductor devices, and electron microscopes

- Material/Finish

	SVSX
Main Body	SUS316L HiMo
Strength Class	8.8

- Related Products

For ventilation of drilled hole, please use **SWAS-VF**. → P.583**SVSX**, which does not have a ventilation hole, is available. → P.625

Unit : mm

1 Individual Sales → P.809 1 unit in 1 bag
Cleanroom Wash & Packaging → P.807 Cleanroom washed and packed
Screw Length Adjustment → P.811 Available / Add'l charge
Vibration Resistant → P.810 Not Available
Modification process for captive use → P.806 Please feel free to contact us

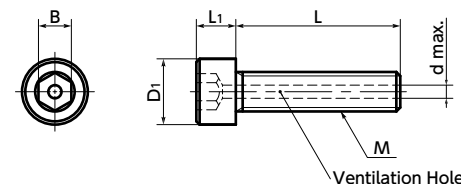
SVSL

Hex Socket Head Cap Screws with Ventilation Hole - SUS316L

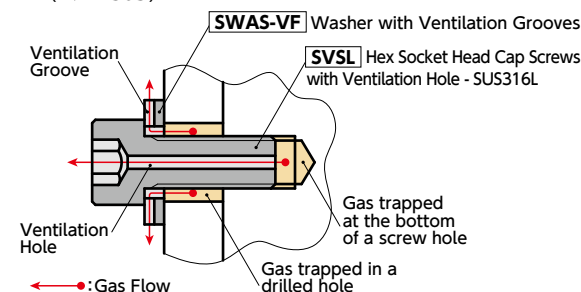
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WEB Selection Tool WEB CAD Download Vacuum Cleanroom wash & packaging Heat-resistance SUS Stainless steel



- Usage example
Gas trapped at the bottom of a screw hole is released through **SVSL**, and gas trapped in a drilled hole is released through **SWAS-VF** (→ P.583).



- Part number specification

SVSL-M5 - 25**1** **2**Order in number of packs.
Also sold separately from 1 piece up. → P.809

Part Number	M	L	2	D1	L1	B	d	Mass (g)
SVSL-M3	M3	5	6 8 10 12 16	5.5	3	2.5	1.2	0.67 - 1.2
SVSL-M4	M4	5	6 8 10 12 16 20 25	7	4	3	1.5	1.4 - 3.2
SVSL-M5	M5		6 8 10 12 16 20 25	8.5	5	4	1.5	2.2 - 4.8
SVSL-M6	M6		8 10 12 16 20 25 30	10	6	5	2	4.3 - 8.3
SVSL-M8	M8		12 16 20 25 30 35	13	8	6	2	11 - 19
SVSL-M10	M10		16 20 25 30 35 40	16	10	8	3	21 - 33
SVSL-M12	M12		30 35 40 45	18	12	10	3	39 - 50

Part Number	Qty*1 per pack
SVSL-M3	20
SVSL-M4	20
SVSL-M5	10
SVSL-M6	10
SVSL-M8	10
SVSL-M10	5
SVSL-M12	5

*1: Also sold separately from 1 piece up. → P.809



- Made of SUS316L. Excellent corrosion resistance.
- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- Cleanroom wash and cleanroom packing are completed. → P.807

- Application

Vacuum devices, vacuum chambers, FPD production equipment, semiconductor devices, and electron microscopes

- Material/Finish

	SVSL
Main Body	SUS316L
Strength Class	A4-70

- Related Products

For ventilation of drilled hole, please use **SWAS-VF**. → P.583

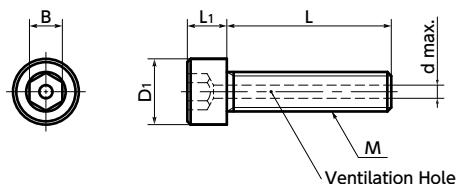
1 Individual Sales → P.809 1 unit in 1 bag
Cleanroom Wash & Packaging → P.807 Cleanroom washed and packed
Screw Length Adjustment → P.811 Available / Add'l charge
Vibration Resistant → P.810 Not Available
Modification process for captive use → P.806 Please feel free to contact us

SVST Hex Socket Head Cap Screws with Ventilation Hole - Titanium

e-nedzi.com®

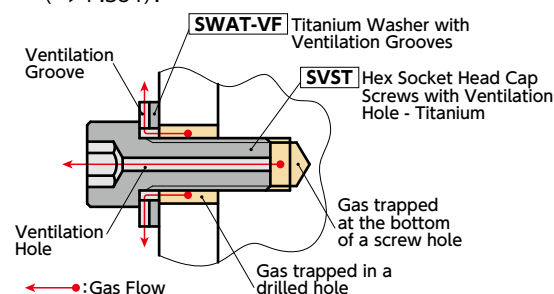


WEB Selection Tool CAD Download Vacuum Cleanroom wash & packaging Non-Magnetic



● Usage example

Gas trapped at the bottom of a screw hole is released through **SVST**, and gas trapped in a drilled hole is released through **SWAT-VF** (→ P.584).



● Part number specification

SVST-M5-20



- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- Chemical polishing and brightening processing improve the quality of the surface. Outgas quantity is extremely low.
- Nonmagnetic.
- Cleanroom wash and cleanroom packing are completed. → P.807
- The features of brightening processing and titanium → P.633

● Application

Vacuum devices, vacuum chambers, FPD production equipment, semiconductor devices, and electron microscopes

● Material/Finish



	SVST
Main Body	TB340C (Grade 2 Titanium)

● Related Products

SNST Titanium Socket Head Cap Screw without Ventilation hole is available.
→ P.636



Part Number	M	L	D1	L1	B	d	Mass (g)	Qty per pack
SVST-M3-5	M3	5	5.5	3	2.5	1.2	0.38	1
SVST-M3-6	M3	6	5.5	3	2.5	1.2	0.4	1
SVST-M3-8	M3	8	5.5	3	2.5	1.2	0.45	1
SVST-M3-10	M3	10	5.5	3	2.5	1.2	0.5	1
SVST-M3-12	M3	12	5.5	3	2.5	1.2	0.54	1
SVST-M3-16	M3	16	5.5	3	2.5	1.2	0.66	1
SVST-M3-20	M3	20	5.5	3	2.5	1.2	0.77	1
SVST-M4-8	M4	8	7	4	3	1.5	0.94	1
SVST-M4-10	M4	10	7	4	3	1.5	1	1
SVST-M4-12	M4	12	7	4	3	1.5	1.1	1
SVST-M4-16	M4	16	7	4	3	1.5	1.3	1
SVST-M5-10	M5	10	8.5	5	4	1.5	1.5	1
SVST-M5-12	M5	12	8.5	5	4	1.5	1.7	1
SVST-M5-16	M5	16	8.5	5	4	1.5	2	1
SVST-M5-20	M5	20	8.5	5	4	1.5	2.3	1
SVST-M5-25	M5	25	8.5	5	4	1.5	2.7	1

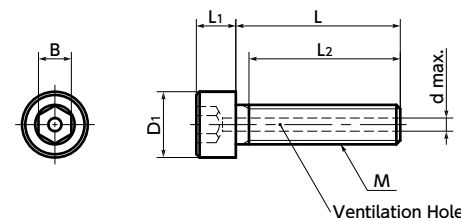
1 Individual Sales → P.809 Cleanroom Wash & Packaging → P.807 Screw Length Adjustment → P.811 Vibration Resistant → P.810 Modification process for captive use → P.806
1 unit in 1 bag Cleanroom washed and packed Available / Add'l charge Not Available Please feel free to contact us

SVLS Socket Head Cap Screws with Ventilation Hole with Low Profile

e-nedzi.com®



WEB Selection Tool CAD Download Vacuum Protusion Cleanroom wash & packaging SUS Stainless steel



● Application



Vacuum devices, vacuum chambers, FPD production equipment, semiconductor devices, and electron microscopes

● Material/Finish

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

- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- Socket head cap screws have low head heights. These screws are intended for the reduction of the size of machinery and device and applications with limited overhead space.
- Cleanroom wash and cleanroom packing are completed. → P.807

															Unit : mm		
Part Number	M	L 									D1	L1	B*2	t	L2*1	d	Mass (g)
																	
SVLS-M3	M3	6	8	10	12						5.5	2	2	1.5	Full Thread	1.2	0.53 - 0.78
SVLS-M4	M4	6	8	10	12	16					7	2.8	2.5	2.3	Full Thread	1.5	1.1 - 1.9
SVLS-M5	M5		8	10	12	16	20				8.5	3.5	3	2.7	Full Thread	1.5	1.8 - 3.3
SVLS-M6	M6		8	10	12	16	20				10	4	4	3	Full Thread	2	3.1 - 5.3
SVLS-M8	M8			10	12	16	20	25	30	35	13	5	5	3.8	22(L=35)	2	7.2 - 16
SVLS-M10	M10					16	20	25	30		16	6	6	4.5	Full Thread	3	15 - 22

*1: If the "L" value is other than the value in parentheses, the screw is full thread.

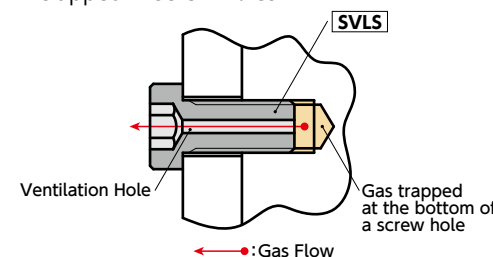
*2: The hexagonal width across flats of **SVLS-M10** has been changed from 7 mm to 6 mm.

Part Number	Qty ^{*1} per pack
SVLS-M3	20
SVLS-M4	20
SVLS-M5	10
SVLS-M6	10
SVLS-M8	10
SVLS-M10	5

*1: Also sold separately from 1 piece up. → P.809

● Usage example

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



● Part number specification

SVLS-M5-20



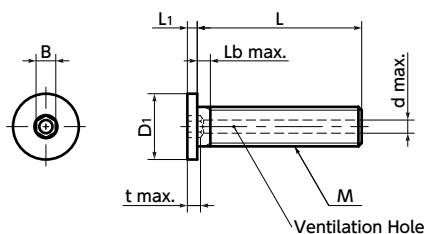
Order in number of packs.
Also sold separately from 1 piece up. → P.809

1 Individual Sales → P.809 Cleanroom Wash & Packaging → P.807 Screw Length Adjustment → P.811 Vibration Resistant → P.810 Modification process for captive use → P.806
Available / Add'l charge Cleanroom washed and packed Available / Add'l charge Not Available Please feel free to contact us

SVSHS Socket Head Cap Screws with Ventilation Hole with Special Low Profile

WEB Selection Tool CAD Download Vacuum Protusion Cleanroom wash & packaging SUS Stainless steel

e-nedzi.com



● Application

Vacuum devices, vacuum chambers, FPD production equipment, semiconductor devices, and electron microscopes

● Material/Finish

RoHS2 Compliant

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

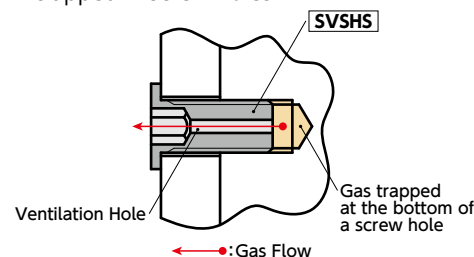
Part Number	M	L	L1	Lb	B	t	d	Mass (g)
SVSHS-M3	M3	6	8	10	1.5	2	1.2	0.53 - 0.7
SVSHS-M4	M4	6	8	10	1.6	2.5	1.5	1.1 - 1.9
SVSHS-M5	M5	6	8	10	2	3	1.5	1.5 - 3.3
SVSHS-M6	M6	6	8	10	2.5	4	2	2.7 - 5.3

Part Number	Qty*1 per pack
SVSHS-M3	20
SVSHS-M4	20
SVSHS-M5	10
SVSHS-M6	10

*1 : Also sold separately from 1 piece up. ➔ P.809

● Usage example

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

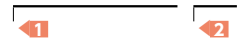


● Related Products

SSH Socket Head Cap Screws with Special Low Profile without ventilation hole is available.
➔ P.599



● Part number specification

SVSHS-M5-20

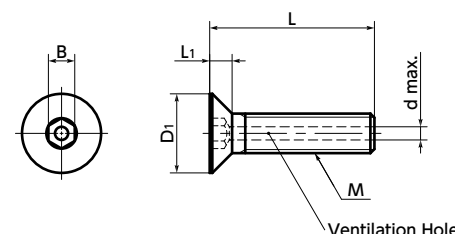
Order in number of packs.
Also sold separately from 1 piece up. ➔ P.809

1 Individual Sales ➔ P.809	Cleanroom Wash & Packaging ➔ P.807	Screw Length Adjustment ➔ P.811	Vibration Resistant ➔ P.810	Modification process for captive use ➔ P.806
Available / Add'l charge	Cleanroom washed and packed	Available / Add'l charge	Not Available	Not Available

SVFCS Hex Socket Countersunk Head Screws with Ventilation Hole

WEB Selection Tool CAD Download Vacuum Cleanroom wash & packaging SUS Stainless steel

e-nedzi.com



● Application

Vacuum devices, vacuum chambers, FPD production equipment, semiconductor devices, and electron microscopes

● Material/Finish

RoHS2 Compliant

	SVFCS
Main Body	SUSXM7 (Equivalent to SUS304)

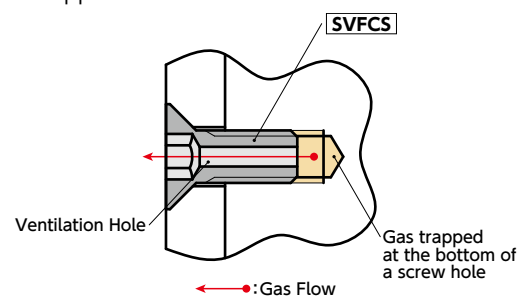
Part Number	M	L	L1	Lb	B	t	d	Mass (g)
SVFCS-M3	M3	5	6	8	10	12	1.2	0.49 - 0.77
SVFCS-M4	M4	6	8	10	12	16	1.5	1 - 1.8
SVFCS-M5	M5	8	10	12	16	20	1.5	2.2 - 3.6
SVFCS-M6	M6	10	12	16	20	25	2	3.9 - 6.5
SVFCS-M8	M8	12	16	20	25	30	2	8.9 - 15

Part Number	Qty*1 per pack
SVFCS-M3	20
SVFCS-M4	20
SVFCS-M5	10
SVFCS-M6	10
SVFCS-M8	10

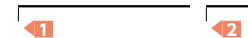
*1 : Also sold separately from 1 piece up. ➔ P.809

● Usage example

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

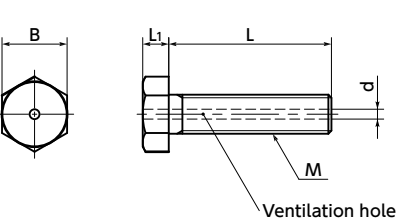


● Part number specification

SVFCS-M5-20

Order in number of packs.
Also sold separately from 1 piece up. ➔ P.809

1 Individual Sales ➔ P.809	Cleanroom Wash & Packaging ➔ P.807	Screw Length Adjustment ➔ P.811	Vibration Resistant ➔ P.810	Modification process for captive use ➔ P.806
Available / Add'l charge	Cleanroom washed and packed	Available / Add'l charge	Not Available	Not Available



● Material/Finish RoHS2 Compliant

	SVHS
Main body	SUSXM7 (Equivalent to SUS304)
Strength Class	A2-70



- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- The ventilation hole is machined by a method that has less effect on metal structure. It suppress the brittle failure and generation of outgas in a vacuum environment during use.
- For locations with narrow top space and hex wrench cannot be used.
- Cleanroom wash and cleanroom packing are completed. ➡ P.807

● Application

Vacuum device / Vacuum container / FPD production device / Semiconductor manufacturing device / Electron microscope

Unit : mm

Part Number	M	L								L1	B	d max.	Mass (g)
SVHS-M3	M3	6	8	10	12	16				2	5.5	1.2	0.67 - 1.1
SVHS-M4	M4		8	10	12	16	20			2.8	7	1.5	1.6 - 2.5
SVHS-M5	M5			10	12	16	20	25		3.5	8	1.5	2.8 - 4.7
SVHS-M6	M6				12	16	20	25	30	4	10	2	4.9 - 8.1
SVHS-M8	M8					16	20	25	30	5.3	13	2	11 - 18

Part Number	Qty per pack*1
SVHS-M3	10
SVHS-M4	10
SVHS-M5	10
SVHS-M6	10
SVHS-M8	10

* 1 : Also sold separately from 1 piece up. ➡ P.809

● Related Products

For ventilation of drilled hole, please use **SWAS-VF**. ➡ P.583

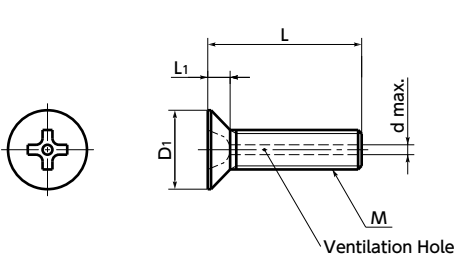
SWAS-VF Washer (with Ventilation Groove)

● Part number specification

SVHS-M5-25

Order in number of packs.
Also sold separately from 1 piece up. ➡ P.809

1 Individual Sales ➡ P.809	Cleanroom Wash & Packaging ➡ P.807	Screw Length Adjustment ➡ P.811	Vibration Resistant ➡ P.810	Modification process for captive use ➡ P.806
Available / Add'l charge	Cleanroom washed and packed	Available / Add'l charge	Not Available	Please feel free to contact us



● Application

Vacuum devices, vacuum chambers, FPD production equipment, semiconductor devices, and electron microscopes
--

● Material/Finish RoHS2 Compliant

	SVFS
Main Body	SUSXM7 (Equivalent to SUS304)

- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- The flat head does not protrude after tightening.
- Cleanroom wash and cleanroom packing are completed. ➡ P.807

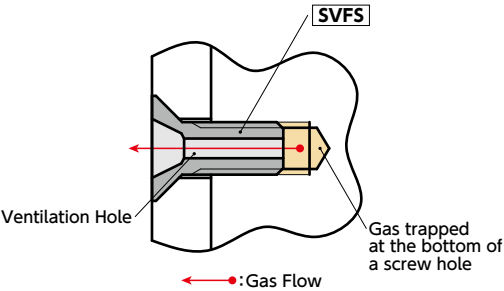
Unit : mm

Part Number	M	L								D1	L1	d	Mass (g)
SVFS-M2	M2	3	4	5	6	8				4	1.2	0.8	0.13 - 0.21
SVFS-M2.6	M2.6		4	5	6	8	10			5.2	1.5	1	0.27 - 0.46
SVFS-M3	M3			5	6	8	10	12		6	1.75	1.2	0.49 - 0.77
SVFS-M4	M4				6	8	10	12	16	8	2.3	1.5	1 - 1.8
SVFS-M5	M5					8	10	12	16	10	2.8	1.5	2.2 - 3.1
SVFS-M6	M6						10	12	16	20	12	3.4	3.9 - 5.6

Part Number	Qty*1 per pack
SVFS-M2	10
SVFS-M2.6	10
SVFS-M3	20
SVFS-M4	20
SVFS-M5	10
SVFS-M6	10

* 1 : Also sold separately from 1 piece up. ➡ P.809

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

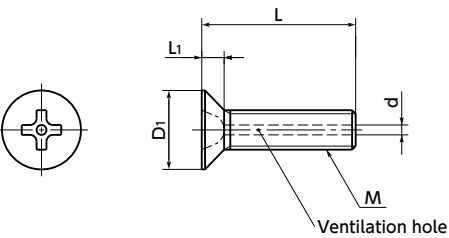


● Part number specification

SVFS-M4-12

Order in number of packs.
Also sold separately from 1 piece up. ➡ P.809

1 Individual Sales ➡ P.809	Cleanroom Wash & Packaging ➡ P.807	Screw Length Adjustment ➡ P.811	Vibration Resistant ➡ P.810	Modification process for captive use ➡ P.806
Available / Add'l charge	Cleanroom washed and packed	Available / Add'l charge	Not Available	Not Available



- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- Flat head screw type whose head does not protrude after tightening.
- The surface is reformed by special chemical polishing and bright heat treatment. The amount of outgas is ultralow.
- Nonmagnetic.
- Cleanroom wash and cleanroom packing are completed. ➡ P.807
- About bright heat treatment and titanium properties ➡ P.633

● Application

Vacuum device / Vacuum container / FPD production device / Semiconductor manufacturing device / Electron microscope

● Material/Finish		RoHS2 Compliant	
		SVFT	
Main body		TW270 (Type 1 titanium)	

Unit : mm									
Part Number	M	L				D1	L1	d max.	Mass (g)
SVFT-M3	M3	6	8	10	12	6	1.75	1.2	0.18 - 0.23
SVFT-M4	M4	6	8	10	12	8	2.3	1.5	0.34 - 0.49

Part Number	Qty per pack*1
SVFT-M3	10
SVFT-M4	10

*1 : Also sold separately from 1 piece up. ➡ P.809

● Related Products

Phillips cross recessed flat head titanium machine screw without ventilation hole **SNFT** is available. ➡ P.640



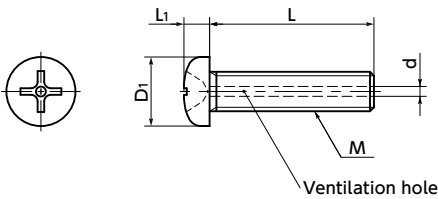
● Part number specification

SVFT-M4-12



Order in number of packs.
Also sold separately from 1 piece up. ➡ P.809

1 Individual Sales ➡ P.809	Cleanroom Wash & Packaging ➡ P.807	Screw Length Adjustment ➡ P.811	Vibration Resistant ➡ P.810	Modification process for captive use ➡ P.806
Available / Add'l charge	Cleanroom washed and packed	Available / Add'l charge	Not Available	Please feel free to contact us



- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- Cleanroom wash and cleanroom packing are completed. ➡ P.807

● Application

Vacuum device / Vacuum container / FPD production device / Semiconductor manufacturing device / Electron microscope

● Material/Finish		RoHS2 Compliant	
		SVPS	
Main body		SUSXM7 (Equivalent to SUS304)	

Unit : mm												
Part Number	M	L							D1	L1	d max.	Mass (g)
SVPS-M3	M3	8	10	12	16				5.5	2	1.2	0.61 - 0.94
SVPS-M4	M4		10	12	16	20			7	2.6	1.5	1.3 - 2.1
SVPS-M5	M5			12	16	20	25		9	3.3	1.5	2.7 - 4.2
SVPS-M6	M6			12	16	20	25	30	10.5	3.9	2	4.3 - 7.4
SVPS-M8	M8					20	25	30	14	5.2	2	11 - 16

Part Number	Qty per pack*1
SVPS-M3	10
SVPS-M4	10
SVPS-M5	10
SVPS-M6	10
SVPS-M8	10

*1 : Also sold separately from 1 piece up. ➡ P.809

● Related Products

For ventilation of drilled hole, please use **SWAS-VF**. ➡ P.583



● Part number specification

SVPS-M4-12



Order in number of packs.
Also sold separately from 1 piece up. ➡ P.809

1 Individual Sales ➡ P.809	Cleanroom Wash & Packaging ➡ P.807	Screw Length Adjustment ➡ P.811	Vibration Resistant ➡ P.810	Modification process for captive use ➡ P.806
Available / Add'l charge	Cleanroom washed and packed	Available / Add'l charge	Not Available	Please feel free to contact us

e-nedzi.com®

SVPT

Phillips Cross Recessed Pan Head Titanium Machine Screws (with Ventilation Hole)

WEB Selection Tool

WEB CAD Download

Vacuum

Cleanroom wash & packaging

Non-Magnetic

Lightweight



- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- Chemical polishing and brightening processing improve the quality of the surface. Outgas quantity is extremely low.
- Nonmagnetic.
- Cleanroom wash and cleanroom packing are completed. ➡ P.807
- The features of brightening processing and titanium ➡ P.633

• Application

Vacuum device / Vacuum container / FPD production device / Semiconductor manufacturing device / Electron microscope

• Material/Finish

SVPT

RoHS2 Compliant

Main body

TW270 (Type 1 titanium)

Part Number	M	L								D1	L1	d max.	Mass (g)
		6	8	10	12	16	20	25	30				
SVPT-M3	M3	6	8	10	12	16	20			5.5	2	1.2	0.31 - 0.63
SVPT-M4	M4	6	8	10	12	16	20	25		7	2.6	1.5	0.59 - 1.4
SVPT-M5	M5		8	10	12	16	20	25	30	9	3.3	1.5	1.3 - 2.8

Part Number	Qty per pack*1
SVPT-M3	10
SVPT-M4	10
SVPT-M5	10

*1 : Also sold separately from 1 piece up. ➡ P.809

• Related Products

Phillips cross recessed pan head titanium machine screw without ventilation hole **SNPT** is available. ➡ P.638

• Part number specification

SVPT-M4-12

1

2

Order in number of packs.

Also sold separately from 1 piece up. ➡ P.809

1 Individual Sales ➡ P.809	Cleanroom Wash & Packaging ➡ P.807	Screw Length Adjustment ➡ P.811	Vibration Resistant ➡ P.810	Modification process for captive use ➡ P.806
Available / Add'l charge	Cleanroom washed and packed	Available / Add'l charge	Not Available	Please feel free to contact us

e-nedzi.com®

SVTS

Hex Socket Set Screws (with Ventilation Hole)

WEB Selection Tool

WEB CAD Download

Vacuum

Cleanroom wash & packaging

SUS Stainless steel



- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- Cleanroom wash and cleanroom packing are completed. ➡ P.807

• Application

Vacuum device / Vacuum container / FPD production device / Semiconductor manufacturing device / Electron microscope

• Material/Finish

SVTS

RoHS2 Compliant

Main body

SUSXM7 (Equivalent to SUS304)

Unit : mm

Part Number	M	L										B	a	t max.	d max.	Mass (g)
SVTS-M3	M3	4	6	8	10		15					1.5	0.4	0.3	1.2	0.2 - 0.7
SVTS-M4	M4		6	8	10		15	20				2	0.4	0.3	1.5	0.4 - 1.6
SVTS-M5	M5		6	8	10	12	15	20	25			2.5	0.5	0.5	1.5	0.7- 3.1
SVTS-M6	M6			8	10	12	15	20	25	30		3	0.5	0.5	2	1.4 - 5.3
SVTS-M8	M8				10	12		20	25	30	35	4	0.6	0.5	2	3.2 - 11.2

Part Number	Qty per pack*1
SVTS-M3	20
SVTS-M4	20
SVTS-M5	20
SVTS-M6	20
SVTS-M8	20

*1 : Also sold separately from 1 piece up. ➡ P.809

• Part number specification

SVTS-M5-10

1

2

Order in number of packs.

Also sold separately from 1 piece up. ➡ P.809

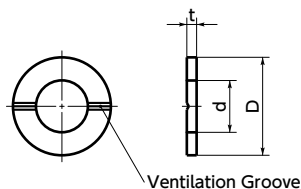
1 Individual Sales ➡ P.809	Cleanroom Wash & Packaging ➡ P.807	Screw Length Adjustment ➡ P.811	Vibration Resistant ➡ P.810	Modification process for captive use ➡ P.806
Available / Add'l charge	Cleanroom washed and packed	Not Available	Not Available	Not Available

SWAS-VF Washers with Ventilation Grooves

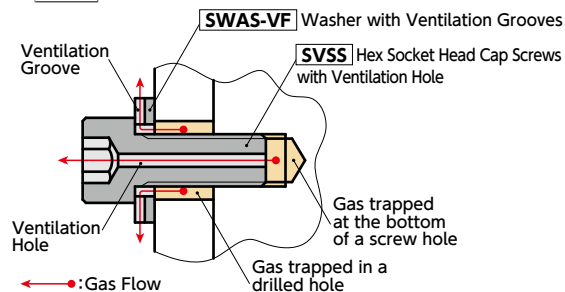
e-nedzi.com®



WEB Selection Tool CAD Download Vacuum Cleanroom wash & packaging SUS Stainless steel



- Usage example
Gas trapped in drilled holes is released through **SWAS-VF**, and gas trapped in screw holes is released by screws with ventilation holes such as **SVSS** (→ P.565).



- The ventilation groove easily releases gas trapped in the drill holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- Cleanroom wash and cleanroom packing are completed. → P.807
- **SWAS-VF-PC** has an improved surface coarseness by chemical polishing. Outgas quantity is extremely low. Suitable for the use under medium vacuum environments.
- Combine this item with screws with ventilation holes, such as **SVSS** Socket Head Cap Screw with Ventilation Hole. → P.565

● Application

Vacuum devices, vacuum chambers, FPD production equipment, semiconductor devices, and electron microscopes

● Material/Finish



	SWAS-VF	SWAS-VF-PC
Main Body	SUS304	SUS304 Chemical Polish

SWAS-VF No Surface Treatment	SWAS-VF-PC Chemical Polish	Common dimensions					Qty*1 per pack
Part Number 1	Part Number 1	Nominal	d	D	t	Mass (g)	
SWAS-3-VF	SWAS-3-VF-PC	3	3.2	7	0.5	0.12	20
SWAS-4-VF	SWAS-4-VF-PC	4	4.3	9	0.8	0.31	20
SWAS-5-VF	SWAS-5-VF-PC	5	5.3	10	1	0.44	10
SWAS-6-VF	SWAS-6-VF-PC	6	6.4	12.5	1.6	1.1	10
SWAS-8-VF	SWAS-8-VF-PC	8	8.4	17	1.6	2.1	10
SWAS-10-VF	SWAS-10-VF-PC	10	10.5	21	2	4	5
SWAS-12-VF	SWAS-12-VF-PC	12	13	24	2.5	6.2	5

*1: Also sold separately from 1 piece up. → P.809

● Related Products

SVSS
Socket Head Cap Screws with
Ventilation Hole
→ P.565



SVSS-MOS
Socket Head Cap Screws with
Ventilation Hole - MoS₂ Shot
→ P.569



● Part number specification

SWAS-5-VF-PC



Order in number of packs.
Also sold separately from 1 piece up. → P.809

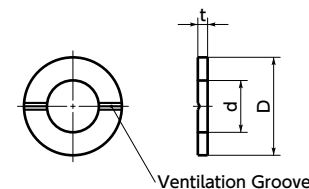
1 Individual Sales → P.809	Cleanroom Wash & Packaging → P.807	Screw Length Adjustment → P.811	Vibration Resistant → P.810	Modification process for captive use → P.806
Available / Add'l charge	Cleanroom washed and packed	Not Available	Not Available	Not Available

SWAT-VF Washers with Ventilation Grooves - Titanium

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WEB Selection Tool CAD Download Vacuum Cleanroom wash & packaging Non-Magnetic



- The ventilation groove easily releases gas trapped in the drill holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- Cleanroom wash and cleanroom packing are completed. → P.807
- Combine this item with **SVST** Socket Head Cap Screws with Ventilation Hole-titanium (→ P.573).

● Application

Vacuum devices, vacuum chambers, FPD production equipment, semiconductor devices, and electron microscopes

● Material/Finish



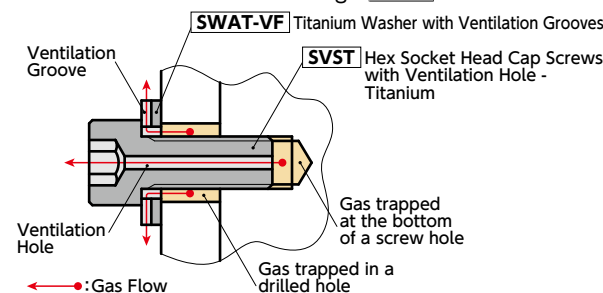
	SWAT-VF
Main Body	TP340C (Grade 2 Titanium)

Part Number 1	Nominal	d	D	t	Mass (g)	Qty per pack
SWAT-3-VF	3	3.2	7	0.5	0.068	1
SWAT-4-VF	4	4.3	9	0.8	0.18	1
SWAT-5-VF	5	5.3	10	1	0.25	1

Unit : mm

● Usage example

Gas trapped at the bottom of a screw hole is released through **SWAT-VF**, and gas trapped in a drilled hole is released through **SVST** (→ P.573).



● Related Products

SWAT Titanium Washers
without a ventilation groove is
available. → P.643



● Part number specification

SWAT-4-VF

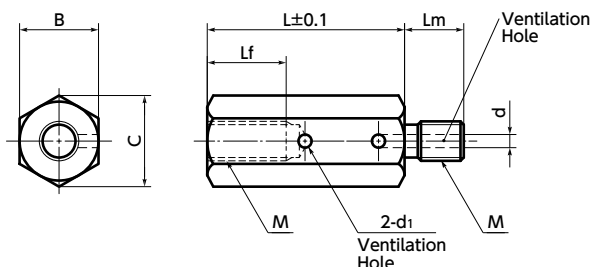


1 Individual Sales → P.809	Cleanroom Wash & Packaging → P.807	Screw Length Adjustment → P.811	Vibration Resistant → P.810	Modification process for captive use → P.806
1 pc. in 1 bag	Cleanroom washed and packed	Not Available	Not Available	Not Available

SHVAS Hex Posts with Ventilation Hole

WEB Selection Tool WEB CAD Download Vacuum Cleanroom wash & packaging SUS Stainless steel

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Material/Finish



	SHVAS
Main Body	SUS304

- Hexagon posts with single-end male and single-end female threads.
- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.
- Two or more hexagon posts can be connected for use.

Application

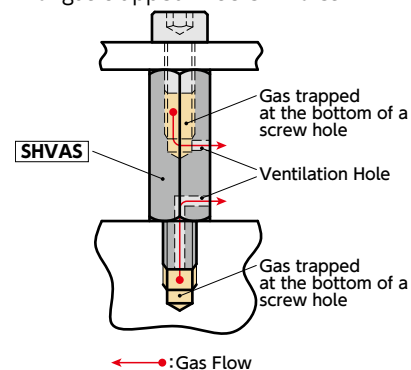
Vacuum devices, vacuum chambers, FPD production equipment, semiconductor devices, and electron microscopes

Part Number	M	L	2	B	C (Approx.)	Lm	Lf	d	d1	Mass (g)
SHVAS-M3	M3	15	20 25 30 35 40	6	6.9	4.5	6	1.2	1.5	3.6 - 9.6
SHVAS-M4	M4		20 25 30 35 40 45 50 60 70 80	7	8.1	6	8	1.5	1.5	6.5 - 26
SHVAS-M5	M5		20 25 30 35 40 45 50 60 70 80 90 100	8	9.2	7.5	10	1.5	1.5	8.3 - 43
SHVAS-M6	M6		25 30 35 40 45 50 60 70 80 90 100 120 150	10	11.5	9	12	2	1.5	16 - 100
SHVAS-M8	M8		35 40 45 50 60 70 80 90 100 120 150 13	15	12	16	2	1.5	39	- 170

Part Number	Qty per pack
SHVAS-M3	1
SHVAS-M4	1
SHVAS-M5	1
SHVAS-M6	1
SHVAS-M8	1

Usage example

These screws are effective with vacuum devices and vacuum chambers that require the elimination of gas trapped in screw holes.



Part number specification

SHVAS-M4-40

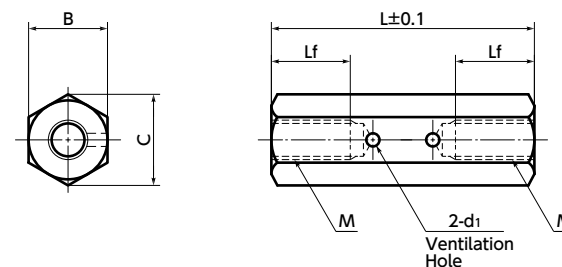


1 Individual Sales → P.809	Cleanroom Wash & Packaging → P.807	Screw Length Adjustment → P.811	Vibration Resistant → P.810	Modification process for captive use → P.806
1 unit in 1 bag	Cleanroom washed and packed	Not Available	Not Available	Not Available

SHVBS Hex Posts with Ventilation Hole

WEB Selection Tool WEB CAD Download Vacuum Cleanroom wash & packaging SUS Stainless steel

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- Hexagon posts with double-ended female threads.
- The ventilation hole easily releases gas trapped in the screw holes of equipment and machines, and supports vacuum drawing of vacuum devices.

Application

Vacuum devices, vacuum chambers, FPD production equipment, semiconductor devices, and electron microscopes

Material/Finish



	SHVBS
Main Body	SUS304

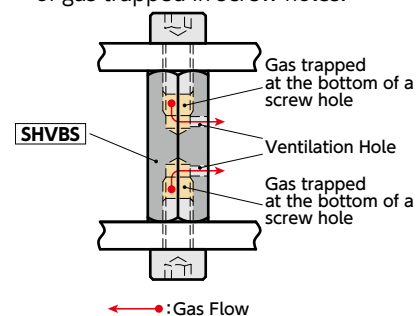
Part Number	M	L	2	B	C (Approx.)	Lf	d1*1	Mass (g)
SHVBS-M3	M3	15	20 25 30 35 40	6	6.9	6	1.5	3.1 - 9.1
SHVBS-M4	M4		20 25 30 35 40 45 50 60 70 80	7	8.1	8	1.5	5.4 - 25
SHVBS-M5	M5		20 25 30 35 40 45 50 60 70 80 90 100	8	9.2	10	1.5	6.1 - 40
SHVBS-M6	M6		25 30 35 40 45 50 60 70 80 90 100 120 150	10	11.5	12	1.5	13 - 96
SHVBS-M8	M8		35 40 45 50 60 70 80 90 100 120 150 13	15	16	1.5	30	- 161

*1: Depending on the "L" dimension, there may be only one ventilation hole.

Part Number	Qty per pack
SHVBS-M3	1
SHVBS-M4	1
SHVBS-M5	1
SHVBS-M6	1
SHVBS-M8	1

Usage example

These screws are effective with vacuum devices and vacuum chambers that require the elimination of gas trapped in screw holes.



Part number specification

SHVBS-M4-40

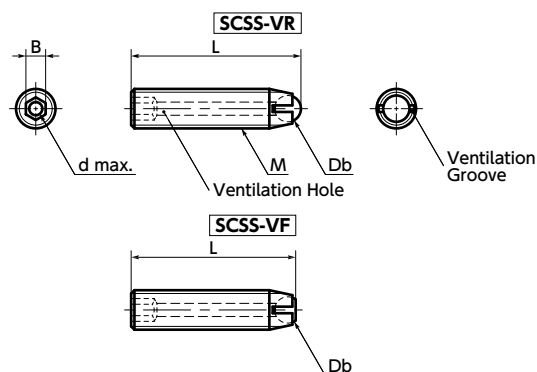


1 Individual Sales → P.809	Cleanroom Wash & Packaging → P.807	Screw Length Adjustment → P.811	Vibration Resistant → P.810	Modification process for captive use → P.806
1 unit in 1 bag	Cleanroom washed and packed	Not Available	Not Available	Not Available

SCSS Clamping Set Screws with Ventilation Hole

WEB Selection Tool CAD Download Vacuum Cleanroom wash & packaging SUS Stainless steel

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● Application

Fixing and locating workpiece, Vacuum devices, FPD production equipment, semiconductor devices

● Material/Finish



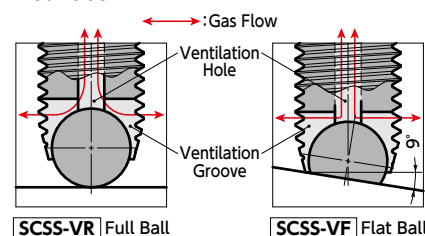
	SCSS
Main Body	SUSXM7 (Equivalent to SUS304)
Ball	SUS440C (Hardness 55 - 60HRC) Thin Fluorine Coating

● Part number specification

SCSS-M6-25-VR



- This screw is used to secure work in vacuum devices and vacuum chambers, such as FPD production equipment and semiconductor devices.
- Cleanroom wash and cleanroom packing are completed. → P.807
- The thin fluorine coating keeps the ball highly lubricated, even after cleanroom washing.
- Ventilation holes and grooves easily release gas trapped in machines.
- **SCSS-VR** has a full ball to firmly secure work at the contact point.
- The contact surface of **SCSS-VF** is a flat ball. Workpiece is not damaged. The ball rotates flexibly up to 9°. Clamps securely even the inclined surface.



SCSS-VR Full Ball

SCSS-VF Flat Ball

Unit : mm

SCSS-VR Full Ball		SCSS-VF Flat Ball		Common dimensions					Qty per pack
Part Number 	L	Part Number 	L	M	Db	B	d	Mass (g)	
SCSS-M5-8-VR	8.6	SCSS-M5-8-VF	8	M5	3	2.5	1.5	0.8	1
SCSS-M5-12-VR	12.6	SCSS-M5-12-VF	12	M5	3	2.5	1.5	1.3	1
SCSS-M5-20-VR	20.6	SCSS-M5-20-VF	20	M5	3	2.5	1.5	2.3	1
SCSS-M6-10-VR	10.8	SCSS-M6-10-VF	10	M6	4	3	2	1.5	1
SCSS-M6-16-VR	16.8	SCSS-M6-16-VF	16	M6	4	3	2	2.5	1
SCSS-M6-20-VR	20.8	SCSS-M6-20-VF	20	M6	4	3	2	3.4	1
SCSS-M6-25-VR	25.8	SCSS-M6-25-VF	25	M6	4	3	2	4	1
SCSS-M8-10-VR	11.2	SCSS-M8-10-VF	10	M8	5.5	4	2	2.5	1
SCSS-M8-12-VR	13.2	SCSS-M8-12-VF	12	M8	5.5	4	2	3.2	1
SCSS-M8-20-VR	21.2	SCSS-M8-20-VF	20	M8	5.5	4	2	5.7	1
SCSS-M8-25-VR	26.2	SCSS-M8-25-VF	25	M8	5.5	4	2	7.7	1
SCSS-M8-30-VR	31.2	SCSS-M8-30-VF	30	M8	5.5	4	2	9	1
SCSS-M10-16-VR	17.7	SCSS-M10-16-VF	16	M10	7	5	3	5	1
SCSS-M10-20-VR	21.7	SCSS-M10-20-VF	20	M10	7	5	3	7	1
SCSS-M10-25-VR	26.7	SCSS-M10-25-VF	25	M10	7	5	3	9.5	1
SCSS-M10-35-VR	36.7	SCSS-M10-35-VF	35	M10	7	5	3	11	1

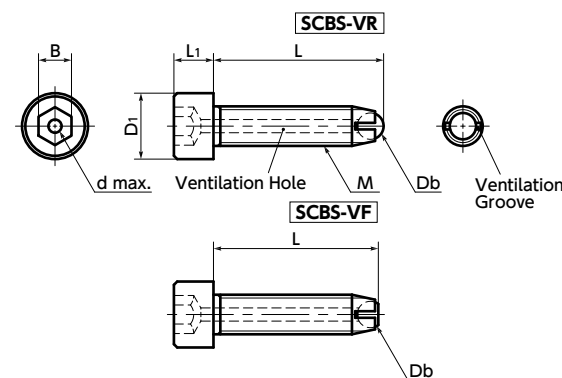
1 Individual Sales → P.809	Cleanroom Wash & Packaging → P.807	Screw Length Adjustment → P.811	Vibration Resistant → P.810	Modification process for captive use → P.806
1 unit in 1 bag	Cleanroom washed and packed	Not Available	Not Available	Not Available

SCBS Clamping Cap Screws with Ventilation Hole

WEB Selection Tool CAD Download Vacuum Cleanroom wash & packaging SUS Stainless steel

SCBS-VR

e-nedzi.com



SCBS-VF

● Application

Fixing and locating workpiece, Vacuum devices, FPD production equipment, semiconductor devices

● Material/Finish



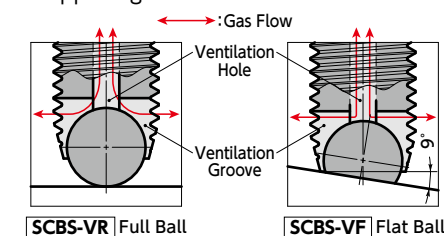
	SCBS
Main Body	SUSXM7 (Equivalent to SUS304)
Ball	SUS440C (Hardness 55 - 60HRC) Thin Fluorine Coating

● Part number specification

SCBS-M6-40-VR



- This screw is used to secure work in vacuum devices and vacuum chambers, such as FPD production equipment and semiconductor devices.
- Cleanroom wash and cleanroom packing are completed. → P.807
- The thin fluorine coating keeps the ball highly lubricated, even after cleanroom washing.
- Ventilation holes and grooves easily release gas trapped in machines.
- **SCBS-VR** has a full ball to firmly secure workpiece at the contact point.
- The contact surface of **SCBS-VF** is a flat ball. Workpiece is not damaged. The ball rotates flexibly up to 9°. It clamps securely even when the opposing surface is tilted.



SCBS-VR Full Ball

SCBS-VF Flat Ball

Unit : mm

SCBS-VR Full Ball		SCBS-VF Flat Ball		Common dimensions							Qty per pack
Part Number 	L	Part Number 	L	M	D1	L1	Db	B	d	Mass (g)	
SCBS-M5-12-VR	12.6	SCBS-M5-12-VF	12	M5	8.5	5	3	4	1.5	2.9	1
SCBS-M5-16-VR	16.6	SCBS-M5-16-VF	16	M5	8.5	5	3	4	1.5	3.4	1
SCBS-M5-20-VR	20.6	SCBS-M5-20-VF	20	M5	8.5	5	3	4	1.5	3.9	1
SCBS-M5-25-VR	25.6	SCBS-M5-25-VF	25	M5	8.5	5	3	4	1.5	4.4	1
SCBS-M5-30-VR	30.6	SCBS-M5-30-VF	30	M5	8.5	5	3	4	1.5	5	1
SCBS-M6-16-VR	16.8	SCBS-M6-16-VF	16	M6	10	6	4	5	2	5.6	1
SCBS-M6-20-VR	20.8	SCBS-M6-20-VF	20	M6	10	6	4	5	2	6.5	1
SCBS-M6-25-VR	25.8	SCBS-M6-25-VF	25	M6	10	6	4	5	2	7.6	1
SCBS-M6-30-VR	30.8	SCBS-M6-30-VF	30	M6	10	6	4	5	2	8.7	1
SCBS-M6-40-VR	40.8	SCBS-M6-40-VF	40	M6	10	6	4	5	2	11	1
SCBS-M8-20-VR	21.2	SCBS-M8-20-VF	20	M8	13	8	5.5	6	2	14	1
SCBS-M8-30-VR	31.2	SCBS-M8-30-VF	30	M8	13	8	5.5	6	2	18	1
SCBS-M8-40-VR	41.2	SCBS-M8-40-VF	40	M8	13	8	5.5	6	2	22	1
SCBS-M8-50-VR	51.2	SCBS-M8-50-VF	50	M8	13	8	5.5	6	2	25	1
SCBS-M10-25-VR	26.7	SCBS-M10-25-VF	25	M10	16	10	7	8	3	26	1
SCBS-M10-30-VR	31.7	SCBS-M10-30-VF	30	M10	16	10	7	8	3	29	1
SCBS-M10-40-VR	41.7	SCBS-M10-40-VF	40	M10	16	10	7	8	3	34	1
SCBS-M10-50-VR	51.7	SCBS-M10-50-VF	50	M10	16	10	7	8	3	39	1
SCBS-M10-60-VR	61.7	SCBS-M10-60-VF	60	M10	16	10	7	8	3	47	1

1 Individual Sales → P.809	Cleanroom Wash & Packaging → P.807	Screw Length Adjustment → P.811	Vibration Resistant → P.810	Modification process for captive use → P.806
1 unit in 1 bag	Cleanroom washed and packed	Not Available	Not Available	Not Available

Selection Tool

CAD Download

Vacuum

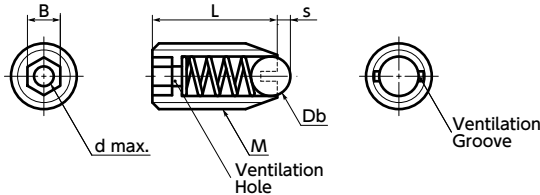
Cleanroom wash & packaging

SUS Stainless steel

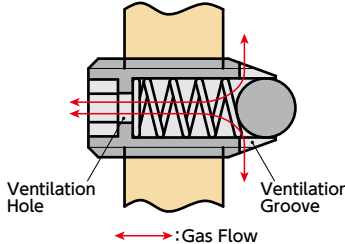
PVFS

Spring Plungers with Ball with Ventilation Hole

e-nedzi.com



- For positioning in vacuum devices and vacuum chambers, such as FPD production equipment and semiconductor devices.
- Cleanroom wash and cleanroom packing are completed. ➔ P.807
- The thin fluorine coating keeps the ball highly lubricated, even after cleanroom washing.
- Ventilation holes and grooves easily release gas trapped in machines.



● Application
Fixing and locating workpiece, Vacuum devices, FPD production equipment, semiconductor devices

Material/Finish		PVFS
Main Body		Equivalent to SUS304
Ball		SUS440C (Hardness 55 - 60HRC) Thin Fluorine Coating
Spring		SUS631J1

Part Number	M	s	L	Db	B	d	Load (N) min./max.	Mass (g)	Qty per pack
PVFS-5	M5	0.9	12	3	2.5	1.5	5.7 / 9.6	0.9	1
PVFS-6	M6	1	14	3.5	3	2	6.9 / 13	1.5	1
PVFS-8	M8	1.5	16	5	4	2	9.5 / 16	3.5	1
PVFS-10	M10	2	19	6	5	3	16 / 28	7	1

● Part number specification
PVFS-6

Individual Sales ➔ P.809	Cleanroom Wash & Packaging ➔ P.807	Screw Length Adjustment ➔ P.811	Vibration Resistant ➔ P.810	Modification process for captive use ➔ P.806
1 unit in 1 bag	Cleanroom washed and packed	Not Available	Not Available	Not Available

Selection Tool

CAD Download

Vacuum

Protrusion

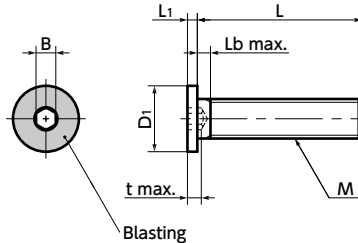
Cleanroom wash & packaging

SUS Stainless steel

SSHS-HB

Socket Head Cap Screws with Special Low Profile - Head Shot Blast

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Material/Finish		SSHS-HB
Main Body		SUSXM7 (S.S. grade : A2) Blasted (Head Only)
Strength Class		A2-50

● Part number specification
SSHS - M5 - 16 - HB
Product Code 1 2 Product Code
Order in number of packs.
Also sold separately from 1 piece up. ➔ P.809

- Socket head cap screws with special low profile with blasted head surface.
- The surface of the screw head is coarsened by blasting.
- It prevent deposits on the screw head from peeling during vacuum deposition and other film formation equipment.



- Also, screws with blasted heads with special specifications are available, including dimensions and shape.



● Application
Film formation equipment, vacuum devices, FPD production equipment, and semiconductor devices

Part Number	M	L	L1	Lb	B	t	Max. Torque (N · m)	Mass (g)
SSHS-M3-HB	M3	6	8	10	12	2	0.6	0.44 - 0.69
SSHS-M4-HB	M4	6	8	10	12	2.5	1.5	0.89 - 1.6
SSHS-M5-HB	M5	8	10	12	16	3	3.1	0.98 - 2.5
SSHS-M6-HB	M6	10	12	16	20	4	5.3	1.9 - 4.8

Part Number	Qty*1 per pack
SSHS-M3-HB	10
SSHS-M4-HB	10
SSHS-M5-HB	10
SSHS-M6-HB	10

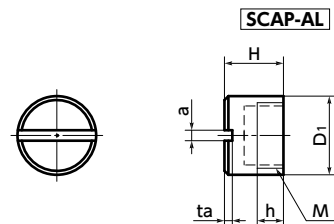
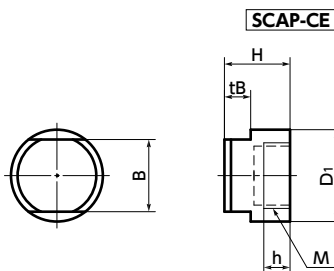
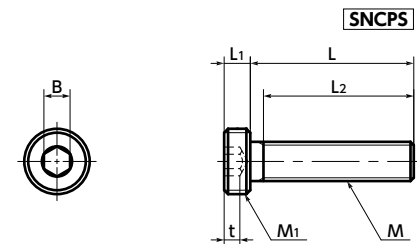
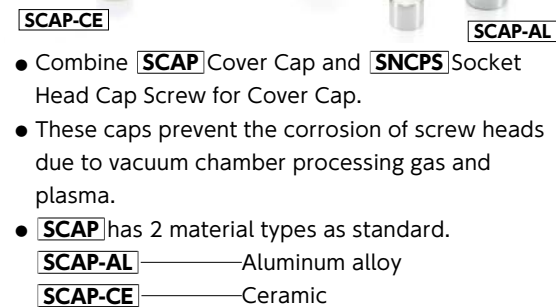
*1 : Also sold separately from 1 piece up. ➔ P.809

Individual Sales ➔ P.809	Cleanroom Wash & Packaging ➔ P.807	Screw Length Adjustment ➔ P.811	Vibration Resistant ➔ P.810	Modification process for captive use ➔ P.806
Available / Add'l charge	Cleanroom washed and packed	Available / Add'l charge	Not Available	Available / Add'l charge



SCAP/SNCPS Cover Caps / Socket Head Cap Screws for Cover Caps

WEB Selection Tool CAD Download SUS Stainless steel Vacuum Cleanroom wash & packaging

**SCAP-AL****SCAP-CE****SNCPS****SCAP-CE + SNCPS****SCAP-CE****SCAP-AL**

- Combine **SCAP** Cover Cap and **SNCPS** Socket Head Cap Screw for Cover Cap.
- These caps prevent the corrosion of screw heads due to vacuum chamber processing gas and plasma.
- SCAP** has 2 material types as standard.
SCAP-AL Aluminum alloy
SCAP-CE Ceramic
- The screw connection section is made of stainless steel, so this product has a higher tightening strength than aluminum or ceramic screws.
- Cleanroom wash and cleanroom packing are completed. → P.807
- Other requested materials such as Inconel*1 and Hastelloy*1 can be used for Cover Caps.
*1: Inconel is a registered trademark of Special Metals Corporation.
*1: Hastelloy is a registered trademark of Haynes International, Inc.

Material/Finish



	SCAP-AL Cover Caps	SCAP-CE Cover Caps	SNCPS Cap Screws
Main Body	A5056	Al ₂ O ₃ (99.5% Alumina)	SUSXM7 (Equivalent to SUS304)
Strength Class			A2-50

SCAP-AL Cover Caps : Aluminum Alloy (A5056)

Unit : mm

Part Number	M	H	D1	h	a	ta	Recommendation Torque (N·m)	SNCPS Part.No	Mass (g)	Qty per pack
SCAP-3-AL	M5×0.5	5	7	2	0.8	0.6	0.1	SNCPS-M3	0.4	1
SCAP-4-AL	M6×0.75	7	8	2.8	1.2	1	0.15	SNCPS-M4	0.6	1
SCAP-5-AL	M8×0.75	8	10	3.5	1.2	1	0.3	SNCPS-M5	1	1
SCAP-6-AL	M10×0.75	9	12	4	1.6	1.2	0.4	SNCPS-M6	1.5	1
SCAP-8-AL	M12×1	11	14	5	2	1.8	0.6	SNCPS-M8	2.3	1
SCAP-10-AL	M16×1	12	18	6	2.5	2	0.8	SNCPS-M10	3.7	1

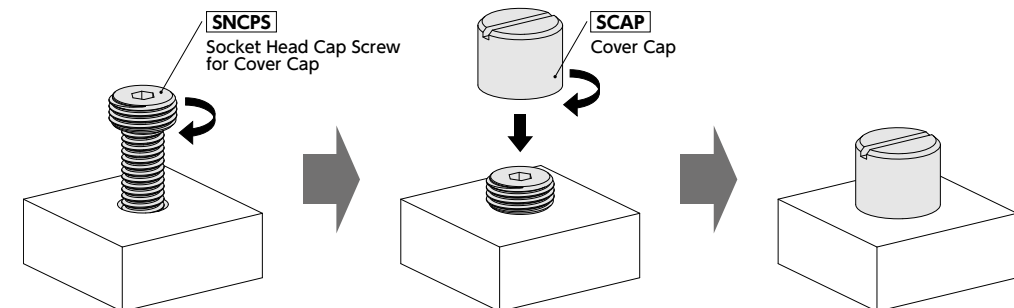
SCAP-CE Cover Caps : Ceramic (Al₂O₃)

Unit : mm

Part Number	M	H	D1	h	B	tB	Recommendation Torque (N·m)	SNCPS Part.No	Mass (g)	Qty per pack
SCAP-3-CE	M5×0.5	6	9	2	7	3	0.1	SNCPS-M3	1.2	1
SCAP-4-CE	M6×0.75	8	10	2.8	8	3	0.15	SNCPS-M4	2	1
SCAP-5-CE	M8×0.75	9	12	3.5	9	3	0.3	SNCPS-M5	3	1
SCAP-6-CE	M10×0.75	10	14	4	11	4	0.4	SNCPS-M6	4.3	1
SCAP-8-CE	M12×1	11	16	5	13	4	0.6	SNCPS-M8	5.8	1
SCAP-10-CE	M16×1	12	20	6	17	4	0.8	SNCPS-M10	9.2	1

1 Individual Sales → P.809 Cleanroom Wash & Packaging → P.807 Screw Length Adjustment → P.811 Vibration Resistant → P.810 Modification process for captive use → P.806
1 pc. in 1 bag Cleanroom washed and packed S.S. only/ Add'l charge Male screw only/ Add'l charge Not Available

- Usage
After tightening **SNCPS** Socket Head Cap Screw for Cover Cap, assemble **SCAP** Cover Cap so that it covers the head of **SNCPS**.
Ensure that the tightening torque of **SCAP** does not exceed the recommendation torque in the chart.



- ⚠ Precautions for Use
Corrosion resistance changes depending on use conditions. Always carry out tests under conditions same as actual conditions before use.

Related Products

SCAP-PT Cover Cap made of PTFE (Teflon), which has excellent chemical resistance, is available.
→ P.667



Part number specification

SCAP-6-AL **SCAP** Cover Cap



SNCPS-M6-20 **SNCPS** Cap Screw for Cover Cap



Order the **SCAP** and **SNCPS** individually.

SNCPS Socket Head Cap Screw for Cover Cap

Unit : mm

Part Number	M	L	M1	L1	B	t	L2*1	SCAP Part.No	Mass (g)
SNCPS-M3	M3	6 8 10 12	M5×0.5	2	2	1.5	Full Thread	SCAP-3	0.53 - 0.78
SNCPS-M4	M4	8 10 12 16	M6×0.75	2.8	2.5	2.3	Full Thread	SCAP-4	1.3 - 1.9
SNCPS-M5	M5	10 12 16 20	M8×0.75	3.5	3	2.7	Full Thread	SCAP-5	2 - 3.3
SNCPS-M6	M6	12 16 20 25	M10×0.75	4	4	3	Full Thread	SCAP-6	3.8 - 6.4
SNCPS-M8	M8	16 20 25 30 35	M12×1	5	5	3.8	22(L=35)	SCAP-8	9 - 16
SNCPS-M10	M10	20 25 30 35 40	M16×1	6	6	4.5	26(L=40)	SCAP-10	17 - 27

*1: If the "L" value is other than the value in parentheses, the screw is full thread.

Part Number	Qty per pack
SNCPS-M3	1
SNCPS-M4	1
SNCPS-M5	1
SNCPS-M6	1
SNCPS-M8	1
SNCPS-M10	1