

SS4MS5C - DEC 15, 2021

Item # SS4MS5C was discontinued on DEC 15, 2021. For informational purposes, this is a copy of the website content at that time and is valid for the stated product.

SETSCREWS AND THUMBSCREWS

- ▶ Cup-Point, Double-Ended, Cone-Tipped, Nylon-Tipped, Brass-Tipped, or Vented, Vacuum-Compatible Setscrews
- ▶ Spring-Loaded or Vacuum-Compatible Thumbscrews
- ▶ Imperial Sizes: 2-56, 4-40, 6-32, 8-32, and 1/4"-20
- ▶ Metric Sizes: M3 x 0.5, M4 x 0.7, and M6 x 1.0



[Hide Overview](#)

OVERVIEW

Features

- Setscrews with a Variety of Features (See Tables Below for Details):
 - Imperial Threads: 2-56, 4-40, 6-32, 8-32, or 1/4"-20
 - Metric Threads: M3 x 0.5, M4 x 0.7, or M6 x 1.0
 - Stainless Steel and Alloy Steel Options
 - Cup-Point, Double-Ended, Cone-Tipped, Nylon-Tipped, or Brass-Tipped
- Vented, Vacuum-Compatible Setscrews Also Available
 - Imperial Sizes: 8-32 or 1/4"-20
 - Metric Sizes: M4 x 0.7 and M6 x 1.0
- Spring-Loaded or Vacuum-Compatible Thumbscrews
 - 1/4"-20 or M6 x 1.0-Threaded

Setscrews

Stainless steel and alloy steel setscrews are available below with a variety of industry-standard threads. In addition to standard cup-point setscrews, we offer versions with non-marring nylon or brass tips, as well as double-ended setscrews with hex sockets on both ends for easy removal from posts or mounts. For vacuum applications, vented setscrews are also available with 8-32, M4 x 0.7, 1/4"-20, or M6 x 1.0 threads. Details are provided in the tables below.

Thumbscrews

Our 1/4"-20 and M6 x 1.0 thumbscrews, with either a spring-loaded tip or a vacuum-compatible finish, are a direct replacement for the thumbscrews used on our Ø1/2" post holders. The versions with spring-loaded tips are offered both individually and in packs of five.

Screws Selection Guide

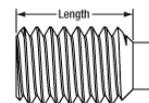
Cap Screws
Setscrews and Thumbscrews
Low-Profile Screws & Nuts
Thread Adapter Screws
Screw Kits
Balldrivers and Hex Keys

Setscrew and Thumbscrew Quick Links								
Thread	2-56	4-40	6-32	8-32	1/4"-20	M3 x 0.5	M4 x 0.7	M6 x 1.0
Setscrew Type	Nylon Tipped	Cup Point or Nylon Tipped	Nylon Tipped	Cup Point, Double Ended, Nylon Tipped, Brass Tipped, or Vacuum Compatible	Cup Point, Double Ended, Nylon Tipped, or Vacuum Compatible	Cup Point or Nylon Tipped	Cup Point, Double Ended, Cone-Tipped, Nylon Tipped, Brass Tipped, or Vacuum Compatible	Cup Point, Double Ended, Nylon Tipped, or Vacuum Compatible
Thumbscrew Type	-	-	-	-	Spring Loaded or Vacuum Compatible	-	-	Spring Loaded or Vacuum Compatible

[Hide 2-56 Stainless Steel Setscrews](#)

2-56 Stainless Steel Setscrews

Item #	Length	Type	Hex	Material	Quantity
SS2SN013 ^a	1/8" (3.2 mm) ^b	Nylon Tip, Approx. 1/32" Long	0.035"	18-8 Stainless Steel, Nylon ^b	10



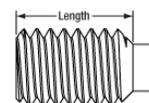
- a. Nylon-tipped setscrews can be used in place of standard setscrews to avoid marring or stressing optics or other mating parts.
- b. This setscrew has a nylon tip that extends beyond the end of the setscrew by approximately 1/32".

Part Number	Description	Price	Availability
SS2SN013	2-56 Stainless Steel Nylon-Tipped Setscrew, 1/8" Long, 10 Pack	\$12.30	Today

[Hide 4-40 Stainless Steel or Alloy Steel Setscrews](#)

4-40 Stainless Steel or Alloy Steel Setscrews

Item #	Length	Type	Hex	Material	Quantity
SS4S025	1/4" (6.4 mm)	Cup Point	0.050"	18-8 Stainless Steel	50
SS4N013 ^a	1/8" (3.2 mm) ^b	Nylon Tip, Approx. 1/32" Long	0.050"	18-8 Stainless Steel, Nylon ^b	10
SS4N019 ^a	3/16" (4.8 mm) ^b	Nylon Tip, Approx. 1/32" Long	0.050"	Grade 8 Alloy Steel with Black Oxide Coating, Nylon ^b	10
SS4N025 ^a	1/4" (6.4 mm) ^b				



- a. Nylon-tipped setscrews can be used in place of standard setscrews to avoid marring or stressing optics or other mating parts.
- b. This setscrew has a nylon tip that extends beyond the end of the setscrew by approximately 1/32".

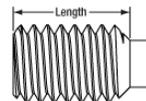
We also offer the HW-KIT5 4-40 cap screw and setscrew kit.

Part Number	Description	Price	Availability
SS4S025	Customer Inspired! 4-40 Stainless Steel Setscrew, 1/4" Long, 50 Pack	\$10.49	Today
SS4N013	4-40 Stainless Steel Nylon-Tipped Setscrew, 1/8" Long, 10 Pack	\$13.81	Today
SS4N019	4-40 Alloy Steel Nylon-Tipped Setscrew, 3/16" Long, 10 Pack	\$14.41	7-10 Days
SS4N025	4-40 Alloy Steel Nylon-Tipped Setscrew, 1/4" Long, 10 Pack	\$15.04	Today

[Hide M3 x 0.5 Stainless Steel or Alloy Steel Setscrews](#)

M3 x 0.5 Stainless Steel or Alloy Steel Setscrews

Item #	Length	Type	Hex	Material	Quantity
SS3M6	6 mm (0.24")	Cup Point	1.5 mm	18-8 Stainless Steel	50
SS3MN3 ^a	3 mm (0.12") ^b	Nylon Tip, Approx. 0.8 mm Long	1.5 mm	Grade 8 Alloy Steel with Black Oxide Coating, Nylon ^b	10
SS3MN4 ^a	4 mm (0.16") ^b				
SS3MN6 ^a	6 mm (0.24") ^b				



a. Nylon-tipped setscrews can be used in place of standard setscrews to avoid marring or stressing optics or other mating parts.

b. This setscrew has a nylon tip that extends beyond the end of the setscrew by approximately 0.8 mm.

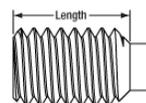
We also offer the HW-KIT5/M M3 cap screw and setscrew kit.

Part Number	Description	Price	Availability
SS3M6	Customer Inspired! M3 x 0.5 Stainless Steel Setscrew, 6 mm Long, 50 Pack	\$10.49	Today
SS3MN3	M3 x 0.5 Alloy Steel Nylon-Tipped Setscrew, 3 mm Long, 10 Pack	\$13.81	7-10 Days
SS3MN4	Customer Inspired! M3 x 0.5 Alloy Steel Nylon-Tipped Setscrew, 4 mm Long, 10 Pack	\$14.41	Today
SS3MN6	M3 x 0.5 Alloy Steel Nylon-Tipped Setscrew, 6 mm Long, 10 Pack	\$15.04	7-10 Days

[Hide 6-32 Alloy Steel Setscrews](#)

6-32 Alloy Steel Setscrews

Item #	Length	Type	Hex	Material	Quantity
SS6N013 ^a	1/8" (3.2 mm) ^b	Nylon Tip, Approx. 1/32" Long	1/16"	Grade 8 Alloy Steel with Black Oxide Coating, Nylon ^b	10



a. Nylon-tipped setscrews can be used in place of standard setscrews to avoid marring or stressing optics or other mating parts.

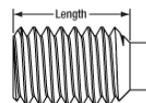
b. This setscrew has a nylon tip that extends beyond the end of the setscrew by approximately 1/32".

Part Number	Description	Price	Availability
SS6N013	6-32 Alloy Steel Nylon-Tipped Setscrew, 1/8" Long, 10 Pack	\$13.52	Today

[Hide 8-32 Stainless Steel or Alloy Steel Setscrews](#)

8-32 Stainless Steel or Alloy Steel Setscrews

Item #	Length	Type	Hex	Material	Quantity
SS8E50D	1/2" (12.7 mm)	Double-Ended	5/64" (Both Ends)	300 Series Stainless Steel	10
SS8S050	1/2" (12.7 mm)	Cup Point	5/64"	18-8 Stainless Steel	50
SS8N013 ^a	1/8" (3.2 mm) ^b	Nylon Tip, Approx. 3/64" Long	5/64"	18-8 Stainless Steel, Nylon ^b	10
SS8N019 ^a	3/16" (4.8 mm) ^b				
SS8N038 ^a	3/8" (9.5 mm) ^b	Nylon Tip, Approx. 3/64" Long	5/64"	Grade 8 Alloy Steel with Black Oxide Coating, Nylon ^b	10
SS8B025 ^a	1/4" (6.4 mm) ^c	Brass Tip, Approx. 1/20"	5/64"	Grade 8 Alloy Steel with Black Oxide Coating,	10



		Long		Brass ^c	
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- These nylon- or brass-tipped setscrews can be used in place of standard setscrews to avoid marring or stressing mating parts.
- This setscrew has a nylon tip that extends beyond the end of the setscrew by approximately 3/64".
- This setscrew has a brass tip that extends beyond the end of the setscrew by approximately 1/20".

We also offer the HW-KIT1 8-32 cap screw kit and HW-KIT3 8-32 setscrew kit.

Part Number	Description	Price	Availability
SS8E50D	8-32 Stainless Steel Setscrew with Hex on Both Ends, 1/2" Long, 10 Pack	\$10.20	Today
SS8S050	Customer Inspired! 8-32 Stainless Steel Setscrew, 1/2" Long, 50 Pack	\$6.26	Today
SS8N013	8-32 Stainless Steel Nylon-Tipped Setscrew, 1/8" Long, 10 Pack	\$12.41	Today
SS8N019	8-32 Stainless Steel Nylon-Tipped Setscrew, 3/16" Long, 10 Pack	\$12.56	Today
SS8N038	8-32 Alloy Steel Nylon-Tipped Setscrew, 3/8" Long, 10 Pack	\$14.79	Today
SS8B025	8-32 Alloy Steel Brass-Tipped Setscrew, 1/4" Long, 10 Pack	\$14.86	7-10 Days

[Hide Vented, Vacuum-Compatible 8-32 Setscrews](#)

Vented, Vacuum-Compatible 8-32 Setscrews

Item #	Length	Type	Hex	Screw Material	Quantity
SS8S050V	1/2" (12.7 mm)	Vented	5/64"	316 Stainless Steel	5

These setscrews are constructed from 316 stainless steel and chemically cleaned and

prepared for vacuum applications before packaging. They also have a central $\varnothing 0.04"$ ($\varnothing 1.1$ mm) hole through the body of the screw to serve as a vent, allowing trapped gas to escape from a blind hole when a vacuum chamber is pumped down.

They are compatible directly out of the packaging with vacuum environments down to 10^{-6} Torr. With additional cleaning and processing, they can be used at even lower pressures, only limited by the outgassing rate of the stainless steel, which is 1.8×10^{-8} Torr-Liters/s/cm². The material properties of the stainless steel and the cleaning methods that are completed by the end user should be used to determine the appropriateness of these products and materials in a specific vacuum system operating at pressures under 10^{-6} Torr.

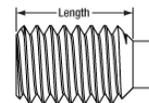
These setscrews are packaged in double airtight bags for cleanroom and vacuum chamber applications. We also offer additional vacuum-compatible screws.

Part Number	Description	Price	Availability
SS8S050V	8-32 Vacuum-Compatible Vented Setscrew, 316 Stainless Steel, 1/2" Long, 5 Pack	\$12.30	Today

[Hide M4 x 0.7 Stainless Steel or Alloy Steel Setscrews](#)

M4 x 0.7 Stainless Steel or Alloy Steel Setscrews

Item #	Length	Type	Hex	Material	Quantity
SS4M12D	12 mm (0.47")	Double Ended	2 mm (Both Ends)	300 Series Stainless Steel	10
SS4MS12	12 mm (0.47")	Cup Point	2 mm	18-8 Stainless Steel	50
SS4MS5C	5 mm (0.20") ^a	Cone Tip	2 mm	18-8 Stainless Steel	10
SS4MN4 ^b	4 mm (0.16") ^c	Nylon Tip, Approx. 1.2 mm Long	2 mm	Grade 8 Alloy Steel with Black Oxide Coating, ^b	10
SS4MN6 ^b	6 mm (0.24") ^c				



SS4MN10^b	10 mm (0.39") ^c			Nylon	
SS4MB6^b	6 mm (0.24") ^d	Brass Tip, Approx. 1.2 mm Long	2 mm	Grade 8 Alloy Steel with Black Oxide Coating, Brass ^c	10

- a. Overall length. The thread length is 3.4 mm.
- b. Nylon- or brass-tipped setscrews can be used in place of standard setscrews to avoid marring or stressing optics or other mating parts.
- c. This setscrew has a nylon tip that extends beyond the end of the setscrew by approximately 1.2 mm.
- d. This setscrew has a brass tip that extends beyond the end of the setscrew by approximately 1.2 mm.

We also offer the HW-KIT1/M M4 cap screw kit and HW-KIT3/M M4 setscrew kit.

Part Number	Description	Price	Availability
SS4M12D	M4 x 0.7 Stainless Steel Setscrew with Hex on Both Ends, 12 mm Long, 10 Pack	\$10.30	Today
SS4MS12	Customer Inspired!&nbsp;M4 x 0.7 Stainless Steel Setscrew, 12 mm Long, 50 Pack	\$6.32	Today
SS4MS5C	M4 x 0.7 Stainless Steel Cone-Tipped Setscrew, 5 mm Long, 10 Pack	\$6.15	Lead Time
SS4MN4	Customer Inspired!&nbsp;M4 x 0.7 Alloy Steel Nylon-Tipped Setscrew, 4 mm Long, 10 Pack	\$12.56	7-10 Days
SS4MN6	M4 x 0.7 Alloy Steel Nylon-Tipped Setscrew, 6 mm Long, 10 Pack	\$13.10	Today
SS4MN10	M4 x 0.7 Alloy Steel Nylon-Tipped Setscrew, 10 mm Long, 10 Pack	\$14.79	Today
SS4MB6	M4 x 0.7 Alloy Steel Brass-Tipped Setscrew, 6 mm Long, 10 Pack	\$14.86	Today

[Hide Vented, Vacuum-Compatible M4 x 0.7 Setscrews](#)

Vented, Vacuum-Compatible M4 x 0.7 Setscrews

Item #	Length	Type	Hex	Material	Quantity
SS4MS12V	12 mm (0.47")	Vented	2 mm	A4 Stainless Steel	5

These setscrews are constructed from A4 stainless steel and chemically cleaned and

prepared for vacuum applications before packaging. They also have a central Ø1.2 mm (Ø0.05") hole through the body of the screw to serve as a vent, allowing trapped gas to escape from a blind hole when a vacuum chamber is pumped down.

They are compatible directly out of the packaging with vacuum environments down to 10⁻⁶ Torr. With additional cleaning and processing, they can be used at even lower pressures, only limited by the outgassing rate of the stainless steel, which is 1.8 x 10⁻⁸ Torr-Liters/s/cm². The material properties of the stainless steel and the cleaning methods that are completed by the end user should be used to determine the appropriateness of these products and materials in a specific vacuum system operating at pressures under 10⁻⁶ Torr.

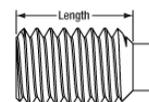
These setscrews are packaged in double airtight bags for cleanroom and vacuum chamber applications. We also offer additional vacuum-compatible screws.

Part Number	Description	Price	Availability
SS4MS12V	M4 x 0.7 Vacuum-Compatible Vented Setscrew, A4 Stainless Steel, 12 mm Long, 5 Pack	\$12.30	Today

[Hide 1/4"-20 Stainless Steel Setscrews](#)

1/4"-20 Stainless Steel Setscrews

Item #	Length	Type	Hex	Material	Quantity
SS25E63D	5/8" (15.9 mm)	Double Ended	1/8" (Both Ends)	18-8 Stainless Steel	10
SS25S050	1/2" (12.7 mm)				



SS25S075	3/4" (19.0 mm)	Cup Point	1/8"	18-8 Stainless Steel	25
SS25S10	1" (25.4 mm)				
SS25N031^a	5/16" (7.9 mm) ^b	Nylon Tip, Approx. 5/64" Long	1/8"	18-8 Stainless Steel, Nylon ^b	10

a. Nylon-tipped setscrews can be used in place of standard setscrews to avoid marring or stressing optics or other mating parts.

b. This setscrew has a nylon tip that extends beyond the end of the setscrew by approximately 5/64".

We also offer the HW-KIT2 1/4"-20 cap screw and setscrew kit and the HW-KIT4 1/4"-20 setscrew kit.

Part Number	Description	Price	Availability
SS25E63D	1/4"-20 Stainless Steel Setscrew with Hex on Both Ends, 5/8" Long, 10 Pack	\$12.55	Today
SS25S050	Customer Inspired! 1/4"-20 Stainless Steel Setscrew, 1/2" Long, 25 Pack	\$6.26	Today
SS25S075	Customer Inspired! 1/4"-20 Stainless Steel Setscrew, 3/4" Long, 25 Pack	\$7.10	Today
SS25S10	1/4"-20 Stainless Steel Setscrew, 1" Long, 25 Pack	\$9.02	Today
SS25N031	1/4"-20 Stainless Steel Nylon-Tipped Setscrew, 5/16" Long, 10 Pack	\$15.38	Today

[Hide Vented, Vacuum-Compatible 1/4"-20 Setscrews](#)

Vented, Vacuum-Compatible 1/4"-20 Setscrews

Item #	Length	Type	Hex	Material	Quantity
SS25S050V	1/2" (12.7 mm)	Vented	1/8"	316 Stainless Steel	5
SS25S075V	3/4" (19.0 mm)				

These setscrews are constructed from 316 stainless steel and chemically cleaned and prepared for vacuum

applications before packaging. They also have a central Ø0.0625" (Ø1.6 mm) hole through the body of the screw to serve as a vent, allowing trapped gas to escape from a blind hole when a vacuum chamber is pumped down.

They are compatible directly out of the packaging with vacuum environments down to 10⁻⁶ Torr. With additional cleaning and processing, they can be used at even lower pressures, only limited by the outgassing rate of the stainless steel, which is 1.8 x 10⁻⁸ Torr-Liters/s/cm². The material properties of the stainless steel and the cleaning methods that are completed by the end user should be used to determine the appropriateness of these products and materials in a specific vacuum system operating at pressures under 10⁻⁶ Torr.

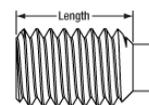
These setscrews are packaged in double airtight bags for cleanroom and vacuum chamber applications. We also offer additional vacuum-compatible screws.

Part Number	Description	Price	Availability
SS25S050V	1/4"-20 Vacuum-Compatible Vented Setscrew, 316 Stainless Steel, 1/2" Long, 5 Pack	\$12.67	Today
SS25S075V	1/4"-20 Vacuum-Compatible Vented Setscrew, 316 Stainless Steel, 3/4" Long, 5 Pack	\$13.20	Today

[Hide M6 x 1.0 Stainless Steel or Alloy Steel Setscrews](#)

M6 x 1.0 Stainless Steel or Alloy Steel Setscrews

Item #	Length	Type	Hex	Material	Quantity
SS6M16D	16 mm (0.63")	Double Ended	3 mm (Both Ends)	18-8 Stainless Steel	10
SS6MS12	12 mm (0.47")	Cup Point	3 mm	18-8 Stainless Steel	25
SS6MS20	20 mm (0.79")				
SS6MS25	25 mm (0.98")				
		Nylon Tip,		Grade 8 Alloy Steel with	



SS6MN8^a	8.0 mm (0.38") ^b	Approx. 1.6 mm Long	3 mm	Black Oxide Coating, Nylon ^b	10
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- a. Nylon-tipped setscrews can be used in place of standard setscrews to avoid marring or stressing optics or other mating parts.
- b. This setscrew has a nylon tip that extends beyond the end of the setscrew by approximately 1.6 mm.

We also offer the HW-KIT2/M M6 cap screw kit and HW-KIT4/M M6 setscrew kit.

Part Number	Description	Price	Availability
SS6M16D	M6 x 1.0 Stainless Steel Setscrew with Hex on Both Ends, 16 mm Long, 10 Pack	\$12.55	Today
SS6MS12	Customer Inspired!&nbsp;M6 x 1.0 Stainless Steel Setscrew, 12 mm Long, 25 Pack	\$6.26	Today
SS6MS20	Customer Inspired!&nbsp;M6 x 1.0 Stainless Steel Setscrew, 20 mm Long, 25 Pack	\$7.10	Today
SS6MS25	M6 x 1.0 Stainless Steel Setscrew, 25 mm Long, 25 Pack	\$8.93	Today
SS6MN8	M6 x 1.0 Alloy Steel Nylon-Tipped Setscrew, 8 mm Long, 10 Pack	\$16.91	Lead Time

[Hide Vented, Vacuum-Compatible M6 x 1.0 Setscrews](#)

Vented, Vacuum-Compatible M6 x 1.0 Setscrews

Item #	Length	Type	Hex	Material	Quantity
SS6MS12V	12 mm (0.47")	Vented	3 mm	A4 Stainless Steel	5
SS6MS20V	20 mm (0.79")				

These setscrews are constructed from A4 stainless steel and chemically cleaned and prepared for vacuum

applications before packaging. They also have a central Ø1.6 mm (Ø0.0625") hole through the body of the screw to serve as a vent, allowing trapped gas to escape from a blind hole when a vacuum chamber is pumped down.

They are compatible directly out of the packaging with vacuum environments down to 10⁻⁶ Torr. With additional cleaning and processing, they can be used at even lower pressures, only limited by the outgassing rate of the stainless steel, which is 1.8 x 10⁻⁸ Torr-Liters/s/cm². The material properties of the stainless steel and the cleaning methods that are completed by the end user should be used to determine the appropriateness of these products and materials in a specific vacuum system operating at pressures under 10⁻⁶ Torr.

These setscrews are packaged in double airtight bags for cleanroom and vacuum chamber applications. We also offer additional vacuum-compatible screws.

Part Number	Description	Price	Availability
SS6MS12V	M6 x 1.0 Vacuum-Compatible Vented Setscrew, A4 Stainless Steel, 12 mm Long, 5 Pack	\$12.67	Today
SS6MS20V	M6 x 1.0 Vacuum-Compatible Vented Setscrew, A4 Stainless Steel, 20 mm Long, 5 Pack	\$13.20	Today

[Hide Spring-Loaded 1/4"-20 and M6 x 1.0 Thumbscrews for Post Holders](#)

Spring-Loaded 1/4"-20 and M6 x 1.0 Thumbscrews for Post Holders

These hex-locking, anodized aluminum thumbscrews have spring-loaded, completely retractable Delrin[®] tips that provide sufficient force on a post to hold it in place as final positional adjustments are being made. They can then be locked into place using a 3/16" (for the TS25H) or 5 mm (for the TS6H/M) balldriver to prevent any further movement of the post. The hex size is also engraved on the face of the thumbscrew, thereby enabling easy identification in the lab.

The TS25H has 1/4"-20 threads while the TS6H/M has M6 x 1.0 threads for compatibility with our imperial and metric Ø1/2" post holders, respectively. The recommended maximum torque is 28 in-lbs (3.2 N·m). Please note that we do not recommend using an L wrench to tighten the thumbscrew, as this may break off the screw head.

If a thumbscrew without a spring-loaded tip is preferred, we recommend our vacuum-compatible thumbscrews, sold below.

Alternatively, the tips can be removed from these thumbscrews by unthreading the setscrew in the front of the thumbscrew with a 1/16"

Specification	
Maximum Torque^a	28 in-lbs (3.2 N·m)

- Please note that we do not recommend using an L wrench to tighten the thumbscrew, as this may break off the screw head.



(1.5 mm) balldriver. The spring and tip can then be removed from the thumbscrew, in the order shown in the image to the right. However, the resulting contact face of the thumbscrew will have a center hole, unlike the contact face of our vacuum-compatible thumbscrews.

[Click to Enlarge Exploded View of the TS25H Thumbscrew](#)

For ease of ordering, these thumbscrews are available individually or in packages of five.

*Delrin® is a registered trademark of DuPont Polymers, Inc.

Part Number	Description	Price	Availability
TS6H/M	Spring-Loaded 5 mm Hex-Locking Thumbscrew, M6 x 1.0 Thread	\$2.73	Today
TS6H/M-P5	Spring-Loaded 5 mm Hex-Locking Thumbscrew, M6 x 1.0 Thread, 5 Pack	\$13.60	Today
TS25H	Spring-Loaded 3/16" Hex-Locking Thumbscrew, 1/4"-20 Thread	\$2.73	Today
TS25H-P5	Spring-Loaded 3/16" Hex-Locking Thumbscrew, 1/4"-20 Thread, 5 Pack	\$13.60	Today

[Hide Vacuum-Compatible 1/4"-20 and M6 x 1.0 Thumbscrews for Post Holders](#)

Vacuum-Compatible 1/4"-20 and M6 x 1.0 Thumbscrews for Post Holders



TS25HV Drawing

These hex-locking thumbscrews are constructed from 2024-T3 aluminum and chemically cleaned and prepared for vacuum applications before packaging. They are compatible directly out of the packaging with vacuum environments down to 10^{-6} Torr. With additional cleaning and processing, they can be used at even lower pressures, only limited by the outgassing rate of the aluminum, which is 7.6×10^{-9} Torr-Liters/s/cm². The material properties of the 2024-T3 aluminum and the cleaning methods that are completed by the end user should be used to determine the appropriateness of these products and materials in a specific vacuum system operating at pressures under 10^{-6} Torr.

These unanodized thumbscrews are packaged in double airtight bags for cleanroom and vacuum chamber applications.

The thumbscrews may be adjusted using our selection of balldrivers. The TS25HV has 1/4"-20 threads while the TS6HV/M has M6 x 1.0 threads for compatibility with our imperial or metric Vacuum-Compatible Ø1/2" Post Holders, respectively. We also offer additional vacuum-compatible Ø1/2" post system components.

Specifications	
Vacuum Compatibility as Packaged ^a	$>10^{-6}$ Torr
Materials	2024-T3 Aluminum
Preparation and Packaging	Chemically Cleaned and Double Vacuum Bagged
Aluminum Outgassing Rate	7.6×10^{-9} Torr-Liters/s/cm ²
Maximum Torque ^b	28 in·lbs (3.2 N·m)

- This is the pressure at which these components can be used with no additional processing. They can be used at even lower pressures with additional cleaning and processing.
- Please note that we do not recommend using an L wrench to tighten the thumbscrew, as this may break off the screw head.

Part Number	Description	Price	Availability
TS6HV/M	5 mm Hex-Locking Thumbscrew, M6 x 1.0 Thread, Vacuum Compatible	\$13.87	Today
TS25HV	3/16" Hex-Locking Thumbscrew, 1/4"-20 Thread, Vacuum Compatible	\$13.87	Today

Visit the [Setscrews and Thumbscrews](#) page for pricing and availability information:

https://www.thorlabs.com/newgroupage9.cfm?objectgroup_id=1437



Pack of 10