



OPERATING MANUAL

1-Touch Vibratory Sieve Shaker SS-10



Rev: 05/07/2018

SAFETY INSTRUCTIONS

Whether you are the owner, employer, operator, or maintenance person for this machine, safety is your responsibility. You are responsible for operating and maintaining this equipment in compliance with these instructions and for using common sense. Review and completely understand the operating and safety instructions before using this machine.

WARNING!

This machine operates on electric current. Improper operation could result in electric shock, electrocution, or an explosion!

1. **ALWAYS** make sure the motor and other electrical components are appropriate and properly configured for your intended use and available power source. The *1-Touch Vibratory Sieve Shaker* is configured to operate on 115V/60Hz power supplies. This unit is **NOT** explosion-proof.
2. **ALWAYS** check electrical wiring for loose connections and for pinched or frayed wiring.
3. **ALWAYS** use a properly-wired, three-pronged plug, or otherwise ground the machine. Connect the machine to a properly-wired, three-pronged receptacle. Make sure the cord is located where no one will trip or get tangled in it.
4. **ALWAYS** disconnect and lock out power supply before performing maintenance and repairs.

WARNING!

WARNING: DO NOT operate the machine without having all covers and case in place.

WARNING: ALWAYS unplug or disconnect machine from the power source when the unit is not in operation.

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1.0 INTRODUCTION:

Gilson's new **1-Touch Vibratory Sieve Shaker** for 8in and 200mm sieves combines the latest in electronic control with proven particle sizing technology for fast, accurate separations. Three-dimensional sieving action evenly distributes and continuously reorients particles across the mesh surface to insure optimum sieving performance. The SS-10 is suitable for a variety of materials with particle sizes from No.10 (2mm) to No.635 (20µm). Fast-acting sieve clamps adjust quickly with little effort. Power level, sieving time and interval pauses are all controlled and programmed on the Touch Screen. Up to 99 testing profiles can be stored in memory to insure exact repeatability.

2.0 UNPACKING & SET-UP:

1. The SS-10 weighs approximately 90lb (40kg). Use appropriate equipment and manpower to uncrate the sieve shaker. Wear safety glasses and work gloves.
2. Examine the shipping carton for signs of damage before opening. Report damage to the shipper immediately. Leave the carton as intact as possible to facilitate return shipping, if necessary.

NOTE: Numbers in parentheses refer to the SS-10 Parts Diagram in Section 5.0.

3. Lift the Base Assembly Item (1) from the carton, and position it on a solid, level work surface. Examine the unit again for damage that may have been concealed.
4. The plastic Clearance Spacer (2) is secured for shipping to the top of the SS-10 Base Assembly with three 1/4-20 x 1.75 stainless steel flat-head screws (4). Using the included Allen key wrench, remove the three screws and set aside. Leave the spacer on top of the base assembly.
5. The Sieve Stack Assembly includes the two Clamp Rods (5), bottom and top Covers (3 and 6), Clamps (9), and top and base Gaskets (12 and 13), shipped partially assembled. To complete assembly, rotate the Clamps so that the tabs are facing outward. Slide the Top Cover Plate up and secure it to the clamps by installing the 10-32 x 1 Shoulder Bolts (10) through the bottom of the plate into the threaded holes in the bottom of each clamp. Tighten Securely.
6. Place the Sieve Stack Assembly on top of the plastic Clearance Spacer, aligning the three holes in the spacer and base plate with the threaded holes in the top of the base assembly. Install the three stainless steel flat-head screws, and tighten securely.
7. Install the adhesive-backed, peel and stick Base Gasket (13) into the recess in the Bottom Cover (3).
8. Move the assembled SS-10 into place on a solid, substantial, and level work surface capable of supporting the machine during operation.
9. Insert the female end of the included power cord into the power connection on the back of the SS-10. Power ON/OFF is controlled by the rocker switch adjacent to this connection.

3.0 CLAMPING SYSTEM:

Gilson sieve clamps are designed for efficiency, ease of use, and rugged dependability. They allow fast, easy insertion and removal of sieve stacks, while insuring that sieves are tightly secured in place during testing. Considerable time and effort is saved over conventional clamping systems, especially when processing multiple samples.

DO NOT lubricate the guide rods or internal contact surfaces of the clamps. If slippage occurs during operation, clean and degrease, then lightly sand the guide rods.

Each clamp has two levers; the bottom is red and the top one is light gray (see Figure 3.1). To rapidly reposition the stack cover on the guide rods, maintain slight upward pressure on both the red levers at once while sliding the clamps up or down. When moving the stack cover, keep the clamps at an even height to prevent binding. Once the cover is at the desired position, release pressure on the levers and the cover will stay in place.

Once the stack cover is seated over the top of the sieve stack, press downward on the gray levers several times until sufficient pressure is applied to clamp the stack tightly (see Figure 3.2).

To release the stack, lift up on both red levers simultaneously. Slide the cover up slightly to clear the top of the sieve stack. Once the cover is out of the way, release the pressure on the red levers (see Figure 3.3).

Clamping down the sieve stack



Figure 3.2

SS-10 Clamps

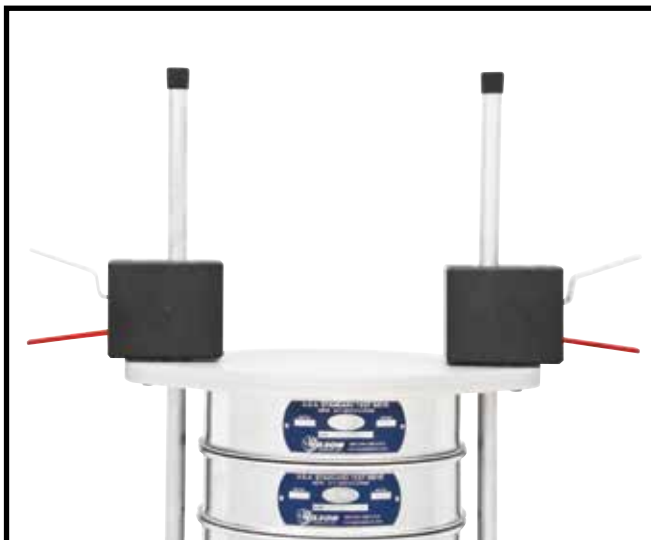


Figure 3.1

Releasing the stack of clamped sieves



Figure 3.3

3.0 TOUCH SCREEN OPERATION:

Inputting data on the Touch Screen is as simple as pressing the designated area with your finger. A gentle, momentary pressure usually works better than a hard push with the finger. Using other objects on the screen is not recommended and may damage the screen, voiding the warranty.

The Touch Screen is used both to input and display information controlling operation of the SS-10 Shaker:

- The five upper displays show **Test Time**, **Power Level**, **Interval Time**, **Pause Time**, and **Test ID**.
- The six lower sections function as control buttons to start or stop a test cycle, enable or disable vibration intervals, lock the screen, and select a test ID. The + and – buttons are used to input values for the various fields (see Figure 4.0).

NOTE: The Touch Screen display is not moisture-resistant. Avoid the use of liquids in its vicinity and use caution when cleaning the display. Moisture damage to the Touch Screen is not covered by warranty.

SS-10 Touch Screen



Figure 4.0

4.1 Test Time

Test Time is the amount of time the sample will be actively vibrated. It is a count-down timer adjustable from 00:00 to 99:59 minutes:seconds. When the timer reaches zero, the unit will stop vibrating and beep.

4.1.1 Editing the Test Time Display

To adjust, press the **Test Time** display once. The outline and numbers inside turn yellow and the first digit will flash (see Figure 4.1.1). The flashing digit is adjusted using the +/- buttons. Once adjusted to the desired value, press the **Test Time** display again. The next digit will begin to flash and is now adjustable with the +/- buttons. Continue until all the Test Time digits are set. When changes are complete, press the **Test Time** display box once while the last digit is flashing to accept the changes and return the screen to idle.

NOTE: Pressing the Touch Screen anywhere other than the **Test Time** box, or the +/- buttons at any time during editing will quickly accept any changes made, and return the screen to idle.

Editing the Test Time Display



Figure 4.1.1

4.2 Interval & Pause Time

The Interval feature allows timed pauses to be introduced into cycles of active vibration. Separation of some materials is improved by interruptions in the vibration cycle that promote particle reorientation. Optimization of interval and pause times is usually determined experimentally for a given material.

- **Interval Time** refers to the period of active vibration between pauses, and **Pause Time** is the time that the unit is not vibrating. Both take place within the period specified by the **Test Time** setting.
- The Interval feature is toggled on and off using the **Enable/Disable Interval** button. When disabled, the Interval Time and Pause Time displays are solid grey and the **Enable Interval** button is displayed (see Figure 4.2). When enabled, the Interval Time and Pause Time boxes, display settable digits and the **Disable Interval** button is displayed. Editing the Interval time is similar to editing the Test Time.
- With the Interval feature enabled, times must be entered in the **Interval Time** and **Pause Time** displays. Interval times can be any value up to the period selected for Total Time, and typically range from a few seconds to a few minutes in length. Pause times are typically only a few seconds, but can be set up to 99 seconds, if desired.

4.2.1 Editing the Interval Time & Pause Time Displays

Enable the **Interval** button. Press the display box of the **Interval Time** or **Pause Time** box once. The outline and numbers inside turn yellow and the first digit will flash (see Figure 4.2.1). The flashing digit is adjusted by pressing the +/- buttons. Once adjusted to the desired value, press the display box again. The next digit will begin to flash and is now adjustable with the +/- buttons. Continue until you have all the digits set. Pressing the display box once while the last digit is flashing accepts the changes and returns the screen to idle.

NOTE: Pressing the Touch Screen anywhere other than the edited display box or the +/- buttons at any time during editing will quickly accept any changes made, and return the screen to idle.

Interval & Pause Time



Figure 4.2

Editing the Interval Time & Pause Time Displays



Figure 4.2.1

4.3 Power Level

Power Level is the amount of vibration produced by the unit. Vibration intensity on a relative scale between 1 (low) and 10 (high) can be selected. Actual vibration amplitude and acceleration forces on the specimen particles will vary and are influenced by the bulk density and total mass of the sample, as well as the height of the sieve stack.

4.3.1 Editing Power Level Settings

Press the Power Level box once. The outline, units of measure and title of the box will turn yellow and begin to flash (see Figure 4.3.1). Pressing the +/- buttons will adjust the value. The selectable values range from 1 (Low) to 10 (High) on a relative scale. When the desired value is displayed, press the display again to accept.

NOTE: Pressing the Touch Screen anywhere other than the edited display box or the +/- buttons at any time during editing will quickly accept any changes made, and return the screen to idle.

Editing Power Level Settings



Figure 4.3.1

4.4 Test ID

The **Test ID** display and the **Save/Delete Test ID** toggle button are used to save and retrieve display settings. The **Test ID** display shows the current selected location, from 0 to 99. If nothing has been saved in that location, zeros are displayed, and the blue **Save Test ID** button is shown. If values are already stored at this location, they will be displayed and the red **Delete Test ID** button will be shown. Pressing Delete will remove stored information. The display does not change until new data is entered.

To create a new ID, start at a location that has no data stored in it, or delete stored values to clear the memory space. Press the **Test ID** display box. The outline and first digit will turn yellow and flash. Set the value using the +/- buttons and press the display again. Repeat the process to set the second digit and press to save the test ID location. Proceed to the other locations and set the values as described above. When done, press the blue **Save Test ID** button to save all information at that location.

4.5 Lock/Unlock Screen Button

The **Lock/Unlock Screen** button protects against unintentional changes to the settings. To activate, press the blue **Lock Screen** button. The button will then change to display **Unlock Screen**. When the screen is locked, only the **Start/Stop** and **Unlock** buttons function. When the screen is unlocked, all buttons can be used to adjust and save values.

4.6 Start/Stop & Pause/Resume Buttons

The **Start/Stop** button controls the test cycle. Pressing the green **Start** button activates vibration and the count-down timer to the selected values. Pressing the red **Stop** button stops the machine immediately and resets the timer. Once started, the **Save/Delete Test ID** button is converted into a **Pause/Resume** button. Pressing **Pause** temporarily halts the test cycle and timer. Pressing **Resume** continues the test at the time remaining.

The SS-10 accepts up to eight full-height or sixteen half-height round test sieves of 8in (203mm) or 200mm diameter plus pan.

NOTE: 8in and 200mm sieves **CANNOT** be used in the same stack.

The SS-10 can test a wide variety of materials. Because of differing characteristics of these materials, optimum combinations of power levels, test times and interval times must be determined experimentally. Low initial power and time settings are recommended when testing an unfamiliar material. Settings may be increased gradually until complete separation is achieved without physically degrading the material.

Inserting the optional GAA-19 Clear Acrylic 8in Sieve Spacer in a sieve stack allows visual observation of specimen action to determine optimum settings for a given material. There must be enough energy to consistently move the largest particles and reorient them to different mesh openings.

Complete separation can be assumed when additional one minute increments of operation at higher power levels produce less than 1% of total weight difference in material passing a given sieve.

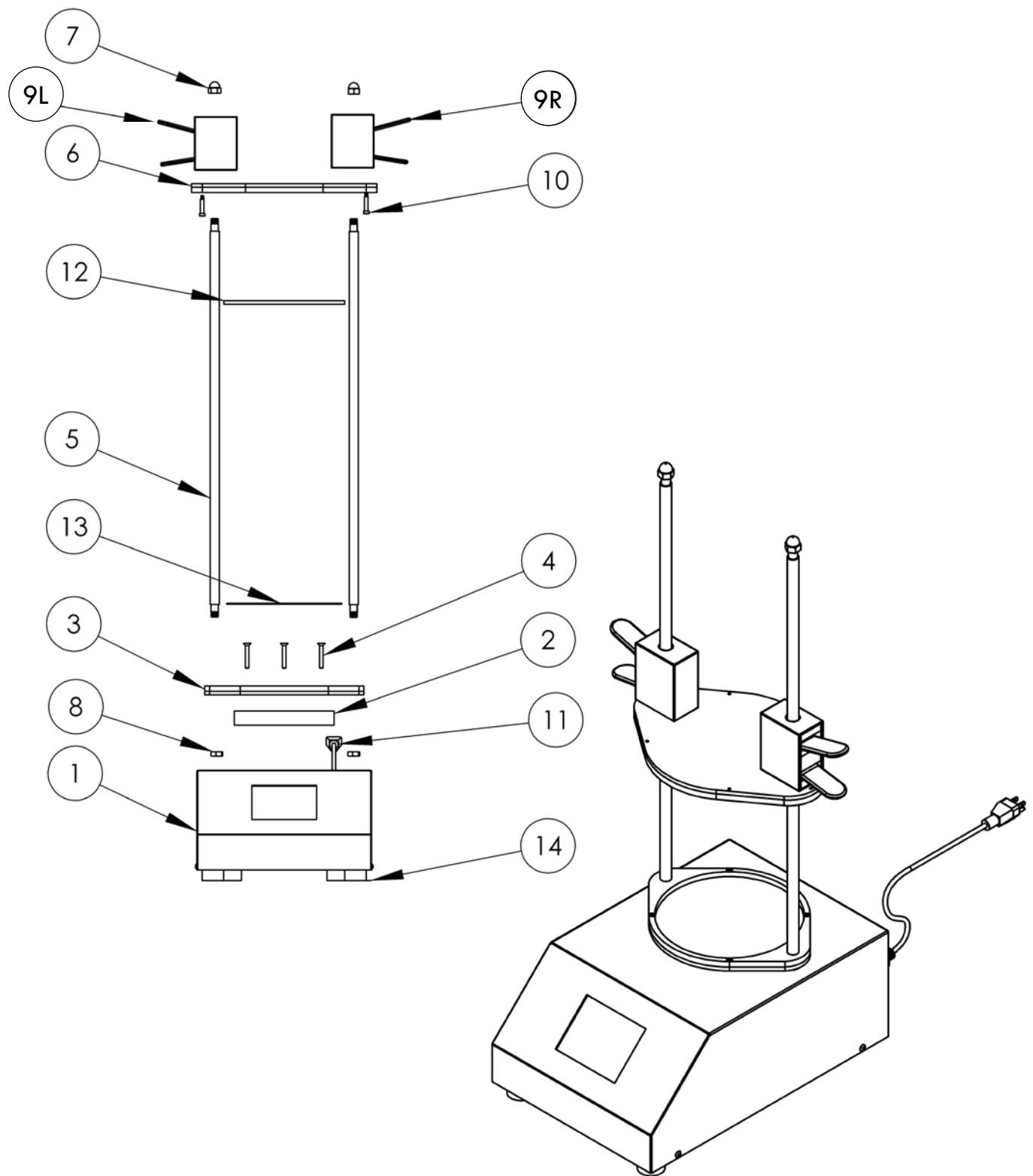
In addition to material type, power input and time, differences in sieve stack height and specimen weights may also cause performance variations. Using similar sieves, stack heights and sample weights will help maintain consistent separation results.

Start/Stop & Pause/Resume Buttons



Figure 4.6

NOTE: Occasionally, the unit may exhibit a pronounced rhythmic surging of the vibration level during operation. This can be prevented by stopping the machine and resetting the power level, changing the number of sieves in the stack, or changing the weight of the specimen.

5.0 PARTS DIAGRAM:**5.1 SS-10 Parts Diagram****SS-10 Parts Diagram**

6.0 PARTS LIST:

6.1 SS-10 Parts List

Item No.	Part No.	No. Req'd	Description
1	WGV8-BASE_ASSY	1	Base Assembly
2	WGV8-SPACER	1	Clearance Spacer
3	WGV8-BOTTOM_COVER_ASSY	1	Bottom Cover Assembly
4	WGSW-252175FAMSS	3	1/4-20 x 1.75 Flat Head Allen (Stainless)
5	WGV8-CLAMP_ROD	2	Clamp Rod
6	WGV8-TOP_COVER_ASSY	1	Top Cover Assembly
7	WGNT-513ACNOSS	2	1/2-13 Acorn Nut (Stainless)
8	WGNT-513HJNOSS	2	1/2-13 Hex Jam Nut (Stainless)
9R	WGSC-CLAMP_RIGHT	1	Sieve Clamp, Right-Hand Side
9L	WGSC-CLAMP_LEFT	1	Sieve Clamp, Left-Hand Side
10	WGSW-SB-03210025CSNSS	2	Shoulder Bolt 10-32 x 1in
11	WGAS-PP-SK0129	1	Power Cord
12	WGV8-TOP_PLATE_GASKET	1	Top Base Plate Gasket
13	WGV8-PLATE_GASKET	1	Base Plate Gasket
14	WGUS-1-1/2" FOOT	4	1-1/2in Rubber Foot

7.0 ADDITIONAL INFORMATION:

7.1 Gilson Sieves

Gilson stocks the widest range and largest quantity of sieves of any major supplier. Immediate shipment is available for all popular sizes. Custom sieves with special diameters and stacking heights are also available.

ASTM Sieves meet the requirements of ASTM E 11. ISO Sieves meet ISO 565 specifications with tolerances to ISO 3310-1. All are serial numbered and supplied with a certificate of manufacturing conformance.

ASTM and ISO Test Sieves are categorized in three different classes.

- **Compliance Test Sieves** are supplied with a basic certificate of manufacturing conformance. All Gilson Test Sieves meet Compliance grade requirements.
- **Inspection Test Sieves** have a specified number of openings measured and reported for each sieve.
- **Calibration Test Sieves** have two to three times as many openings measured on each sieve, and are supplied with more detailed documentation.

Mesh Opening Sizes are listed using standard millimeter (mm) or micrometer (µm) descriptions, as well as traditional inch and number designations where appropriate. Gilson offers all mesh sizes, but not all sizes are available in every frame diameter. Common coarse sizes are also

listed. Normally, every second or fourth size is used, although precision testing may require consecutive sizes. Additional sieves are often inserted into the sequence to avoid overloading of individual sieves or to better define a particular size range.

ISO Sieve Cloth can be mounted in 8in (203mm) frames when special-ordered. These items are non-returnable when supplied as ordered. Inquire.

Frame Diameter should be large enough to accommodate the entire sample volume with enough surface area to avoid overloading individual sieves. The frame diameter selected must also fit the sieve shaker being used. Most common sizes are normally in stock. Inquire for custom sizes.

Frame Heights are designated as Full-Height or Half-Height. Intermediate-Height sieves are also available for 3in and 12in diameters. Half or Intermediate-Height frames allow a greater number of sieves to be used when stack height is limited. Full-Height frames allow free movement of larger particles during agitation for more efficient separation. ISO Test Sieves are fitted with black rubber O-rings.

Frame and Cloth Material

- Stainless Steel Frame with Stainless Steel Cloth is a popular choice and assures a sieve with the longest possible service life. This is the best choice where extreme wear, contamination, or sanitation is an issue.

SIEVE FRAME HEIGHTS & PARTICLE TOPSIZE LIMITS

Sieve		Frame Height ¹		Particle Topsize	
Diameter	Frame Designation	Stacked	Overall	Recommended	Limit
3in (75mm)	FH	1-1/8	1-3/4	No.8	3/8in
	IH	1	1-1/2	No.8	3/8in
	HH	5/8	1-1/4	No.8	1/4in
6in (152mm)	FH	1-7/8	2-5/8	No.4	1/2in
	HH	1-1/8	1-7/8	No.4	3/8in
8in (203mm)	FH	2-1/8	2-5/8	No.4	1/2in
	HH	1-1/8	1-5/8	No.4	3/8in
200mm	FH	2-1/8	2-5/8	No.4	1/2in
	HH	1-1/8	1-5/8	No.4	3/8in
10in (254mm)	FH	3-1/8	4	3/8in	3/4in
12in (305mm)	FH	3-3/8	4-1/4	1/2in	1in
	IH	2-1/8	3	1/2in	3/4in
	HH	1-3/4	2-5/8	1/2in	1/2in
300mm	FH	2-1/2	3	1/2in	3/4in
	HH	1-1/2	2	1/2in	1/2in
18in (457mm)	FH	4-1/4	5-1/2	1-1/2in	2in

¹ Heights are approximate and vary due to mesh thickness.

- Combination Brass Frame with Stainless Steel Cloth offers adequate service life. The frames of these sieves feature a stainless steel skirt for added durability.
- Brass Frame with Brass Cloth is acceptable for light-duty applications. Coarse-series sieves are not available with brass cloth.

Backing Cloth

Backing Cloth prevents sagging and tearing and improves service life of finer mesh sieves. #35 stainless steel mesh reinforcement is located below the primary sieve cloth, increasing the strength of the primary sieve cloth and reducing distortion of the openings during use. Backing Cloth is available at extra cost for sieves with stainless steel mesh finer than ASTM E11 #70 or ISO565/3310-1 212µm on any frame diameter. To order, add the suffix "BU" to the model number of the sieve. These sieves are made-to-order and are non-returnable.

Pans and Covers

- Pans are positioned at the bottom of the sieve stack to collect fines. Extended-Rim Pans insert into the middle of a stack, allowing two samples to be tested at once.
- Covers are not necessary with most Gilson sieve shakers, but are needed for rotary sifters, shakers from some other manufacturers, or shaking by hand. The Cover-with-Ring model has a wire finger loop in the center to facilitate removal.

Gilson Sieve Verification Services

Gilson Verification can be performed on any test sieve or Gilson screen tray, used or new. An optical comparator with NIST traceable calibration measures opening sizes and wire diameters on each sieve, and a statistical analysis assures the standard deviations are within ASTM or ISO requirements for Inspection or Calibration grades. Sieves, trays, or wire cloth units are not included in the purchase price of the verification services. Because wire cloth stretches, sags, or tears, and abrasive materials can reduce wire diameters, a verification process should also be set up to regularly verify that working sieves still meet desired specifications. These services are ordered separately by specifying the appropriate model number given in our listing for Test Sieve and Screen Tray Verification and Services. To Reverify used sieves, contact a Gilson customer service representative for Reverification services. Sieves with backing cloth installed cannot be reverified.

Standard Reference Materials (SRM's)

Sieve Reference Materials are precisely sized glass beads or powders for performance testing of sieves.

They are traceable to the National Institute of Standards and Technology (NIST), or European Community Bureau of Reference (BCR). SRM's fit easily into internal quality programs following guidelines in ASTM E2427, Sieve Acceptance by Performance Testing. User-Prepared Reference Materials can also be utilized under E2427 in the same manner as SRM's. Because user materials are non-standard, they are not traceable and require more handling. In addition, the user must determine acceptable tolerances for statistical analysis.

7.2 Test Sieve & Screen Tray Verification & Services

The ASTM E11 specification affects all test sieves, screen trays, and wire cloth, and outlines the way the mesh openings are evaluated by looking at the statistical distribution of aperture sizes, rather than just the average opening sizes. In addition to a more accurate and reliable system of evaluation, the new system also allows compatibility with ISO 3310-1 requirements. There are now three grades, or classes of ASTM or ISO test sieves available; Compliance, Inspection and Calibration. These same verification services are also available for screen trays used in Gilson Testing Screens, Test-Master®, Porta-Screen® and Gilso-Matic® machines.

- **Compliance Test Sieves** are manufactured with wire cloth that has been inspected and measured in roll or sheet quantities prior to being cut and mounted in the individual sieve frames. Opening sizes are not measured in individual sieves. Each Compliance sieve is supplied with a certificate of manufacturing compliance, but no statistical documentation is given. Compliance sieves are designed for applications where a basic, reliable degree of accuracy and repeatability are sufficient.
- **Inspection Test Sieves** have a specified number of openings measured in each sieve after the cloth is mounted in the frame. There is a 99% confidence level that the standard deviation of these openings is within the maximum allowed by ASTM. Inspection Sieves are a good choice in applications where accuracy and repeatability are critical. Each Inspection Sieve consists of a Compliance Sieve with added Inspection Sieve Verification service.
- **Calibration Test Sieves** have about twice as many openings measured as Inspection Sieves. The higher number of openings measured on each sieve increases the confidence level to 99.73% that the standard deviation of these openings is within the maximum allowed by ASTM. Calibration Sieves should be used in applications where a very high degree of accuracy is required. Each Calibration Sieve consists of a compliance sieve with added Calibration Sieve

Verification service.

New Gilson Test Sieves are guaranteed to meet the requirements of ASTM or ISO for Compliance, Inspection or Calibration grades as ordered, but for continued assurance of performance, procedures should be in place to regularly check working sieves as they age. Wire cloth stretches, sags, or even tears, and abrasive materials reduce wire diameter, causing an increase in opening size and loss of accuracy over time.

Gilson Reverification Services can be performed on used ASTM or ISO Test Sieves or Screen Trays. An optical comparator with NIST traceable calibration measures opening and wire diameter sizes on each sieve. Certification reports are produced for the appropriate grade. These services are available for all ASTM and ISO sieve sizes and types, and are ordered by specifying model numbers for Inspection Sieve Verification, or Calibration Sieve Verification. Sieves are not included in the purchase price. When verifying used sieves, contact a Gilson customer service representative for shipping instructions.

Master-Matched Sieves are ASTM 8in diameter stainless woven-wire sieves from No.8 (2.36mm) to No.325 (45µm) that have been measured and shown to closely match a set of master sieves maintained by Gilson in a reference laboratory. Master-Matched Sieves from Gilson are always matched to the same master set, assuring that one sieve is very close to another. Master-Matched Sieves are also certified to meet ASTM E 11, so additional verification is not normally necessary. Master-Matching is done using special standard reference materials, sized for each sieve. Each sieve is performance tested to insure it yields $\pm 2\%$ by weight of the value of the master sieve.

Ordering

All Gilson test sieves meet ASTM or ISO requirements for Compliance Test Sieves. Ordering additional verification services for each individual sieve upgrades them to meet Inspection or Calibration specifications.



GV-65 Calibration Verification shown with Sieve



Certificate of E 11 Compliance for all Sieves

TEST SIEVE & SCREEN TRAY VERIFICATION & SERVICES

Description	Model
Inspection Test Sieve Verification, ASTM E 11	GV-60
Calibration Test Sieve Verification, ASTM E 11	GV-65
Inspection Test Sieve Verification, ISO 565 and 3310-1	GV-62
Calibration Test Sieve Verification, ISO 565 and 3310-1	GV-63
Inspection Screen Tray Verification, ASTM E 11	GV-61
Calibration Screen Tray Verification, ASTM E 11	GV-66
Inspection Screen Tray Verification, ISO 565 and 3310-1	GV-64
Calibration Screen Tray Verification, ISO 565 and 3310-1	GV-67
Master-Matched Sieves	MM-70

7.3 8in Diameter ASTM Test Sieves

8in Diameter ASTM E11 Test Sieves								
	Sieve Designation		Stainless Cloth Stainless Frame		Stainless Cloth Brass Frame		Brass Cloth Brass Frame	
	Alt.	Std.	Full Ht.	Half Ht.	Full Ht.	Half Ht.	Full Ht.	Half Ht.
C O A R S E S E R I E S	4in	100.0mm	V8SF 4"	V8SH 4"	V8CF 4"	—	—	—
	3-1/2in	90.0mm	V8SF 3-1/2"	V8SH 3-1/2"	V8CF 3-1/2"	—	—	—
	3in	75.0mm	V8SF 3"	V8SH 3"	V8CF 3"	—	—	—
	2-1/2in	63.0mm	V8SF 2-1/2"	V8SH 2-1/2"	V8CF 2-1/2"	—	—	—
	2.12in	53.0mm	V8SF 2.12"	V8SH 2.12"	V8CF 2.12"	—	—	—
	2in	50.0mm	V8SF 2"	V8SH 2"	V8CF 2"	—	—	—
	1-3/4in	45.0mm	V8SF 1-3/4"	V8SH 1-3/4"	V8CF 1-3/4"	—	—	—
	1-1/2in	37.5mm	V8SF 1-1/2"	V8SH 1-1/2"	V8CF 1-1/2"	—	—	—
	1-1/4in	31.5mm	V8SF 1-1/4"	V8SH 1-1/4"	V8CF 1-1/4"	—	—	—
	1.06in	26.5mm	V8SF 1.06"	V8SH 1.06"	V8CF 1.06"	—	—	—
	1in	25.0mm	V8SF 1"	V8SH 1"	V8CF 1"	—	—	—
	7/8in	22.4mm	V8SF 7/8"	V8SH 7/8"	V8CF 7/8"	V8CH 7/8"	—	—
	3/4in	19.0mm	V8SF 3/4"	V8SH 3/4"	V8CF 3/4"	V8CH 3/4"	—	—
	5/8in	16.0mm	V8SF 5/8"	V8SH 5/8"	V8CF 5/8"	V8CH 5/8"	—	—
	0.530in	13.2mm	V8SF .530"	V8SH .530"	V8CF .530"	V8CH .530"	—	—
	1/2in	12.5mm	V8SF 1/2"	V8SH 1/2"	V8CF 1/2"	V8CH 1/2"	—	—
	7/16in	11.2mm	V8SF 7/16"	V8SH 7/16"	V8CF 7/16"	V8CH 7/16"	—	—
	3/8in	9.5mm	V8SF 3/8"	V8SH 3/8"	V8CF 3/8"	V8CH 3/8"	—	—
	5/16in	8.0mm	V8SF 5/16"	V8SH 5/16"	V8CF 5/16"	V8CH 5/16"	—	—
	0.265in	6.7mm	V8SF .265"	V8SH .265"	V8CF .265"	V8CH .265"	—	—
	1/4in	6.3mm	V8SF 1/4"	V8SH 1/4"	V8CF 1/4"	V8CH 1/4"	—	—
	No.3-1/2	5.6mm	V8SF #3-1/2	V8SH #3-1/2	V8CF #3-1/2	V8CH #3-1/2	—	—
	No.4	4.75mm	V8SF #4	V8SH #4	V8CF #4	V8CH #4	—	—
F I N E S E R I E S	No.5	4.0mm	V8SF #5	V8SH #5	V8CF #5	V8CH #5	—	—
	No.6	3.35mm	V8SF #6	V8SH #6	V8CF #6	V8CH #6	—	—
	1/8in ¹	3.18mm	V8SF 1/8"	V8SH 1/8"	V8CF 1/8"	V8CH 1/8"	—	—
	No.7	2.8mm	V8SF #7	V8SH #7	V8CF #7	V8CH #7	—	—
	No.8	2.36mm	V8SF #8	V8SH #8	V8CF #8	V8CH #8	V8BF #8	V8BH #8
	No.10	2.0mm	V8SF #10	V8SH #10	V8CF #10	V8CH #10	V8BF #10	V8BH #10
	No.12	1.7mm	V8SF #12	V8SH #12	V8CF #12	V8CH #12	V8BF #12	V8BH #12
	No.14	1.4mm	V8SF #14	V8SH #14	V8CF #14	V8CH #14	V8BF #14	V8BH #14
	No.16	1.18mm	V8SF #16	V8SH #16	V8CF #16	V8CH #16	V8BF #16	V8BH #16
	No.18	1.0mm	V8SF #18	V8SH #18	V8CF #18	V8CH #18	V8BF #18	V8BH #18
	No.20	850µm	V8SF #20	V8SH #20	V8CF #20	V8CH #20	V8BF #20	V8BH #20
	No.25	710µm	V8SF #25	V8SH #25	V8CF #25	V8CH #25	V8BF #25	V8BH #25
	No.30	600µm	V8SF #30	V8SH #30	V8CF #30	V8CH #30	V8BF #30	V8BH #30
	No.35	500µm	V8SF #35	V8SH #35	V8CF #35	V8CH #35	V8BF #35	V8BH #35
	No.40	425µm	V8SF #40	V8SH #40	V8CF #40	V8CH #40	V8BF #40	V8BH #40
	No.45	355µm	V8SF #45	V8SH #45	V8CF #45	V8CH #45	V8BF #45	V8BH #45
	No.50	300µm	V8SF #50	V8SH #50	V8CF #50	V8CH #50	V8BF #50	V8BH #50
	No.60	250µm	V8SF #60	V8SH #60	V8CF #60	V8CH #60	V8BF #60	V8BH #60
	No.70	212µm	V8SF #70	V8SH #70	V8CF #70	V8CH #70	V8BF #70	V8BH #70
	No.80	180µm	V8SF #80	V8SH #80	V8CF #80	V8CH #80	V8BF #80	V8BH #80
	No.100	150µm	V8SF #100	V8SH #100	V8CF #100	V8CH #100	V8BF #100	V8BH #100
	No.120	125µm	V8SF #120	V8SH #120	V8CF #120	V8CH #120	V8BF #120	V8BH #120
	No.140	106µm	V8SF #140	V8SH #140	V8CF #140	V8CH #140	V8BF #140	V8BH #140
	No.170	90µm	V8SF #170	V8SH #170	V8CF #170	V8CH #170	V8BF #170	V8BH #170
	No.200	75µm	V8SF #200	V8SH #200	V8CF #200	V8CH #200	V8BF #200	V8BH #200
	No.230	63µm	V8SF #230	V8SH #230	V8CF #230	V8CH #230	V8BF #230	V8BH #230
	No.270	53µm	V8SF #270	V8SH #270	V8CF #270	V8CH #270	V8BF #270	V8BH #270
	No.325	45µm	V8SF #325	V8SH #325	V8CF #325	V8CH #325	V8BF #325	V8BH #325
	No.400	38µm	V8SF #400	V8SH #400	V8CF #400	V8CH #400	—	—
	No.450	32µm	V8SF #450	V8SH #450	V8CF #450	V8CH #450	—	—
	No.500	25µm	V8SF #500	V8SH #500	V8CF #500	V8CH #500	—	—
	No.635	20µm	V8SF #635	V8SH #635	V8CF #635	V8CH #635	—	—
	Regular Pan		V8SFXPN	V8SHXPN	V8BFXPN	V8BHXPN	V8BFXPN	V8BHXPN
	Extended Rim Pan		V8SFXPE	V8SHXPE	V8BFXPE	V8BHXPE	V8BFXPE	V8BHXPE
	Regular Cover		V8SFXCV		V8BFXCV			
	Cover with Ring		V8SFXCR		V8BFXCR			

**Combination Sieve****8in Round Test Sieves****SS-8R Gilson Tapping Sieve Shaker shown with Sieves**



8in Diameter Stainless Steel Full Height Test Sieves and Pan



8in Diameter Stainless Steel Half Height Test Sieves



12in Diameter Stainless Steel Full Height Test Sieves



12in Diameter Stainless Steel Half Height Test Sieves



The latest edition of ASTM E11 incorporates a new range of opening sizes for test sieves (supplemental sizes), intended to supplement existing sizes. Gilson is offering these Metric Alternative sizes in stainless steel cloth installed in conventional 3in, 8in, and 12in diameter stainless steel frames.

8in Diameter ASTM E11 Supplemental Sieve Sizes

Supplemental Sizes	8in Diameter	
	Stainless Cloth Stainless Frame	
	Full Ht.	Half Ht.
56.0mm	V8SF 56M	V8SH 56M
40.0mm	V8SF 40M	V8SH 40M
35.5mm	V8SF 35.5M	V8SH 35.5M
28.0mm	V8SF 28M	V8SH 28M
20.0mm	V8SF 20M	V8SH 20M
18.0mm	V8SF 18M	V8SH 18M
14.0mm	V8SF 14M	V8SH 14M
10.00mm	V8SF 10M	V8SH 10M
9.0mm	V8SF 9M	V8SH 9M
7.1mm	V8SF 7.1M	V8SH 7.1M
5.0mm	V8SF 5M	V8SH 5M
4.5mm	V8SF 4.5M	V8SH 4.5M
3.55mm	V8SF 3.55M	V8SH 3.55M
3.15mm	V8SF 3.15M	V8SH 3.15M
2.5mm	V8SF 2.5M	V8SH 2.5M
2.24mm	V8SF 2.24M	V8SH 2.24M
1.80mm	V8SF 1.80M	V8SH 1.80M
1.60mm	V8SF 1.60M	V8SH 1.60M
1.25mm	V8SF 1.25M	V8SH 1.25M
1.12mm	V8SF 1.12M	V8SH 1.12M
900µm	V8SF 900U	V8SH 900U
800µm	V8SF 800U	V8SH 800U
630µm	V8SF 630U	V8SH 630U
560µm	V8SF 560U	V8SH 560U
450µm	V8SF 450U	V8SH 450U
400µm	V8SF 400U	V8SH 400U
315µm	V8SF 315U	V8SH 315U
280mm	V8SF 280U	V8SH 280U
224µm	V8SF 224U	V8SH 224U
200µm	V8SF 200U	V8SH 200U
160µm	V8SF 160U	V8SH 160U
140µm	V8SF 140U	V8SH 140U
112µm	V8SF 112U	V8SH 112U
100µm	V8SF 100U	V8SH 100U
80µm	V8SF 80U	V8SH 80U
71µm	V8SF 71U	V8SH 71U
56µm	V8SF 56U	V8SH 56U
50µm	V8SF 50U	V8SH 50U
40µm	V8SF 40U	V8SH 40U
36µm	V8SF 36U	V8SH 36U



200mm ISO Test Sieves



300mm ISO Test Sieves



- ISO Test Sieves are available with opening sizes up to 125mm (5in). Please inquire for openings larger than 63mm.
- ISO Test Sieves are supplied with sieve seal gasket.
- ISO Sieves with 200mm frames do not stack with ASTM 8in (203mm) sieves.
- Many ISO sizes are available with 8in (203mm) or 12in (305mm) frames in ASTM E11 Supplemental Sizes, listed separately.

ISO 200mm Test Sieves

	ISO 565, 3310-1	Stainless Cloth Stainless Frame		Stainless Cloth Brass Frame		
		Full Ht.	Half Ht.	Full Ht.	Half Ht.	
	63.0mm	V200SF 63M	V200SH 63M	V200CF 63M	V200CH 63M	
	56.0mm	V200SF 56M	V200SH 56M	V200CF 56M	V200CH 56M	
	53.0mm	V200SF 53M	V200SH 53M	V200CF 53M	V200CH 53M	
	50.0mm	V200SF 50M	V200SH 50M	V200CF 50M	V200CH 50M	
	45.0mm	V200SF 45M	V200SH 45M	V200CF 45M	V200CH 45M	
	40.0mm	V200SF 40M	V200SH 40M	V200CF 40M	V200CH 40M	
	37.5mm	V200SF 37.5M	V200SH 37.5M	V200CF 37.5M	V200CH 37.5M	
	35.5mm	V200SF 35.5M	V200SH 35.5M	V200CF 35.5M	V200CH 35.5M	
	31.5mm	V200SF 31.5M	V200SH 31.5M	V200CF 31.5M	V200CH 31.5M	
	28.0mm	V200SF 28M	V200SH 28M	V200CF 28M	V200CH 28M	
	26.5mm	V200SF 26.5M	V200SH 26.5M	V200CF 26.5M	V200CH 26.5M	
	25.0mm	V200SF 25M	V200SH 25M	V200CF 25M	V200CH 25M	
	22.4mm	V200SF 22.4M	V200SH 22.4M	V200CF 22.4M	V200CH 22.4M	
	20.0mm	V200SF 20M	V200SH 20M	V200CF 20M	V200CH 20M	
	19.0mm	V200SF 19M	V200SH 19M	V200CF 19M	V200CH 19M	
	18.0mm	V200SF 18M	V200SH 18M	V200CF 18M	V200CH 18M	
	16.0mm	V200SF 16M	V200SH 16M	V200CF 16M	V200CH 16M	
	14.0mm	V200SF 14M	V200SH 14M	V200CF 14M	V200CH 14M	
	13.2mm	V200SF 13.2M	V200SH 13.2M	V200CF 13.2M	V200CH 13.2M	
	12.5mm	V200SF 12.5M	V200SH 12.5M	V200CF 12.5M	V200CH 12.5M	
	11.2mm	V200SF 11.2M	V200SH 11.2M	V200CF 11.2M	V200CH 11.2M	
	10.0mm	V200SF 10M	V200SH 10M	V200CF 10M	V200CH 10M	
	9.5mm	V200SF 9.5M	V200SH 9.5M	V200CF 9.5M	V200CH 9.5M	
	9.0mm	V200SF 9M	V200SH 9M	V200CF 9M	V200CH 9M	
	8.0mm	V200SF 8M	V200SH 8M	V200CF 8M	V200CH 8M	
	7.1mm	V200SF 7.1M	V200SH 7.1M	V200CF 7.1M	V200CH 7.1M	
	6.7mm	V200SF 6.7M	V200SH 6.7M	V200CF 6.7M	V200CH 6.7M	
	6.3mm	V200SF 6.3M	V200SH 6.3M	V200CF 6.3M	V200CH 6.3M	
	5.6mm	V200SF 5.6M	V200SH 5.6M	V200CF 5.6M	V200CH 5.6M	
	5.0mm	V200SF 5M	V200SH 5M	V200CF 5M	V200CH 5M	
	4.75mm	V200SF 4.75M	V200SH 4.75M	V200CF 4.75M	V200CH 4.75M	
	4.50mm	V200SF 4.5M	V200SH 4.5M	V200CF 4.5M	V200CH 4.5M	
	FINE S E R I E S	4.00mm	V200SF 4M	V200SH 4M	V200CF 4M	V200CH 4M
		3.55mm	V200SF 3.55M	V200SH 3.55M	V200CF 3.55M	V200CH 3.55M
		3.35mm	V200SF 3.35M	V200SH 3.35M	V200CF 3.35M	V200CH 3.35M
		3.15mm	V200SF 3.15M	V200SH 3.15M	V200CF 3.15M	V200CH 3.15M
		2.80mm	V200SF 2.8M	V200SH 2.8M	V200CF 2.8M	V200CH 2.8M
		2.50mm	V200SF 2.5M	V200SH 2.5M	V200CF 2.5M	V200CH 2.5M
		2.36mm	V200SF 2.36M	V200SH 2.36M	V200CF 2.36M	V200CH 2.36M
		2.24mm	V200SF 2.24M	V200SH 2.24M	V200CF 2.24M	V200CH 2.24M
		2.00mm	V200SF 2M	V200SH 2M	V200CF 2M	V200CH 2M
		1.80mm	V200SF 1.8M	V200SH 1.8M	V200CF 1.8M	V200CH 1.8M
		1.70mm	V200SF 1.7M	V200SH 1.7M	V200CF 1.7M	V200CH 1.7M
		1.60mm	V200SF 1.6M	V200SH 1.6M	V200CF 1.6M	V200CH 1.6M
		1.40mm	V200SF 1.4M	V200SH 1.4M	V200CF 1.4M	V200CH 1.4M
1.25mm		V200SF 1.25M	V200SH 1.25M	V200CF 1.25M	V200CH 1.25M	
1.18mm		V200SF 1.18M	V200SH 1.18M	V200CF 1.18M	V200CH 1.18M	
1.12mm		V200SF 1.12M	V200SH 1.12M	V200CF 1.12M	V200CH 1.12M	
1.00mm		V200SF 1M	V200SH 1M	V200CF 1M	V200CH 1M	
900µm		V200SF 900U	V200SH 900U	V200CF 900U	V200CH 900U	
850µm		V200SF 850U	V200SH 850U	V200CF 850U	V200CH 850U	
800µm		V200SF 800U	V200SH 800U	V200CF 800U	V200CH 800U	
710µm		V200SF 710U	V200SH 710U	V200CF 710U	V200CH 710U	
630µm		V200SF 630U	V200SH 630U	V200CF 630U	V200CH 630U	
600µm		V200SF 600U	V200SH 600U	V200CF 600U	V200CH 600U	
560µm		V200SF 560U	V200SH 560U	V200CF 560U	V200CH 560U	
500µm		V200SF 500U	V200SH 500U	V200CF 500U	V200CH 500U	
450µm		V200SF 450U	V200SH 450U	V200CF 450U	V200CH 450U	
425µm		V200SF 425U	V200SH 425U	V200CF 425U	V200CH 425U	
400µm		V200SF 400U	V200SH 400U	V200CF 400U	V200CH 400U	
355µm		V200SF 355U	V200SH 355U	V200CF 355U	V200CH 355U	
315µm		V200SF 315U	V200SH 315U	V200CF 315U	V200CH 315U	
300µm		V200SF 300U	V200SH 300U	V200CF 300U	V200CH 300U	
280µm		V200SF 280U	V200SH 280U	V200CF 280U	V200CH 280U	
250µm		V200SF 250U	V200SH 250U	V200CF 250U	V200CH 250U	
224µm		V200SF 224U	V200SH 224U	V200CF 224U	V200CH 224U	
212µm		V200SF 212U	V200SH 212U	V200CF 212U	V200CH 212U	
200µm		V200SF 200U	V200SH 200U	V200CF 200U	V200CH 200U	
180µm		V200SF 180U	V200SH 180U	V200CF 180U	V200CH 180U	
160µm		V200SF 160U	V200SH 160U	V200CF 160U	V200CH 160U	
150µm		V200SF 150U	V200SH 150U	V200CF 150U	V200CH 150U	
140µm		V200SF 140U	V200SH 140U	V200CF 140U	V200CH 140U	
125µm		V200SF 125U	V200SH 125U	V200CF 125U	V200CH 125U	
112µm		V200SF 112U	V200SH 112U	V200CF 112U	V200CH 112U	
106µm		V200SF 106U	V200SH 106U	V200CF 106U	V200CH 106U	
100µm		V200SF 100U	V200SH 100U	V200CF 100U	V200CH 100U	
90µm		V200SF 90U	V200SH 90U	V200CF 90U	V200CH 90U	
80µm		V200SF 80U	V200SH 80U	V200CF 80U	V200CH 80U	
75µm		V200SF 75U	V200SH 75U	V200CF 75U	V200CH 75U	
71µm		V200SF 71U	V200SH 71U	V200CF 71U	V200CH 71U	
63µm		V200SF 63U	V200SH 63U	V200CF 63U	V200CH 63U	
56µm		V200SF 56U	V200SH 56U	V200CF 56U	V200CH 56U	
53µm		V200SF 53U	V200SH 53U	V200CF 53U	V200CH 53U	
50µm		V200SF 50U	V200SH 50U	V200CF 50U	V200CH 50U	
45µm		V200SF 45U	V200SH 45U	V200CF 45U	V200CH 45U	
40µm		V200SF 40U	V200SH 40U	V200CF 40U	V200CH 40U	
38µm		V200SF 38U	V200SH 38U	V200CF 38U	V200CH 38U	
36µm		V200SF 36U	V200SH 36U	V200CF 36U	V200CH 36U	
32µm		V200SF 32U	V200SH 32U	V200CF 32U	V200CH 32U	
25µm		V200SF 25U	V200SH 25U	V200CF 25U	V200CH 25U	
20µm		V200SF 20U	V200SH 20U	V200CF 20U	V200CH 20U	
	Pan Cover	V200SF XPN V200S XCV	V200SH XPN V200S XCV	V200BF XPN V200B XCV	V200BH XPN V200B XCV	