

1-Touch Vibratory Sieve Shaker SS-10



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

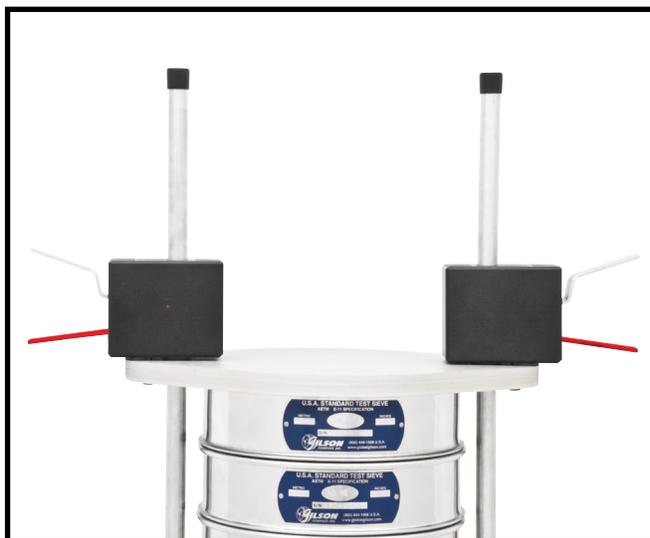


Figure 3.1

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

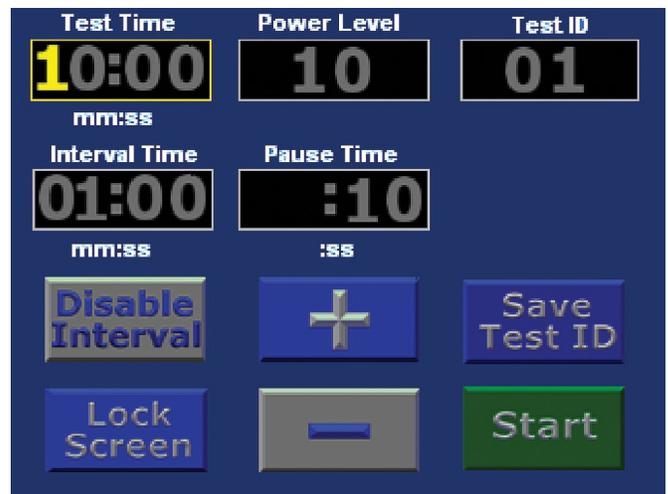


Figure 4.1.1

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.

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 re-setting the power level, changing the number of sieves in the stack, or changing the weight of the specimen.

Start/Stop & Pause/Resume Buttons

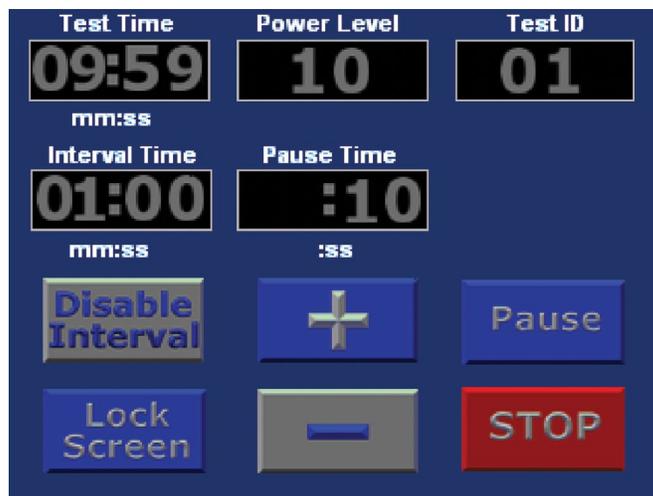
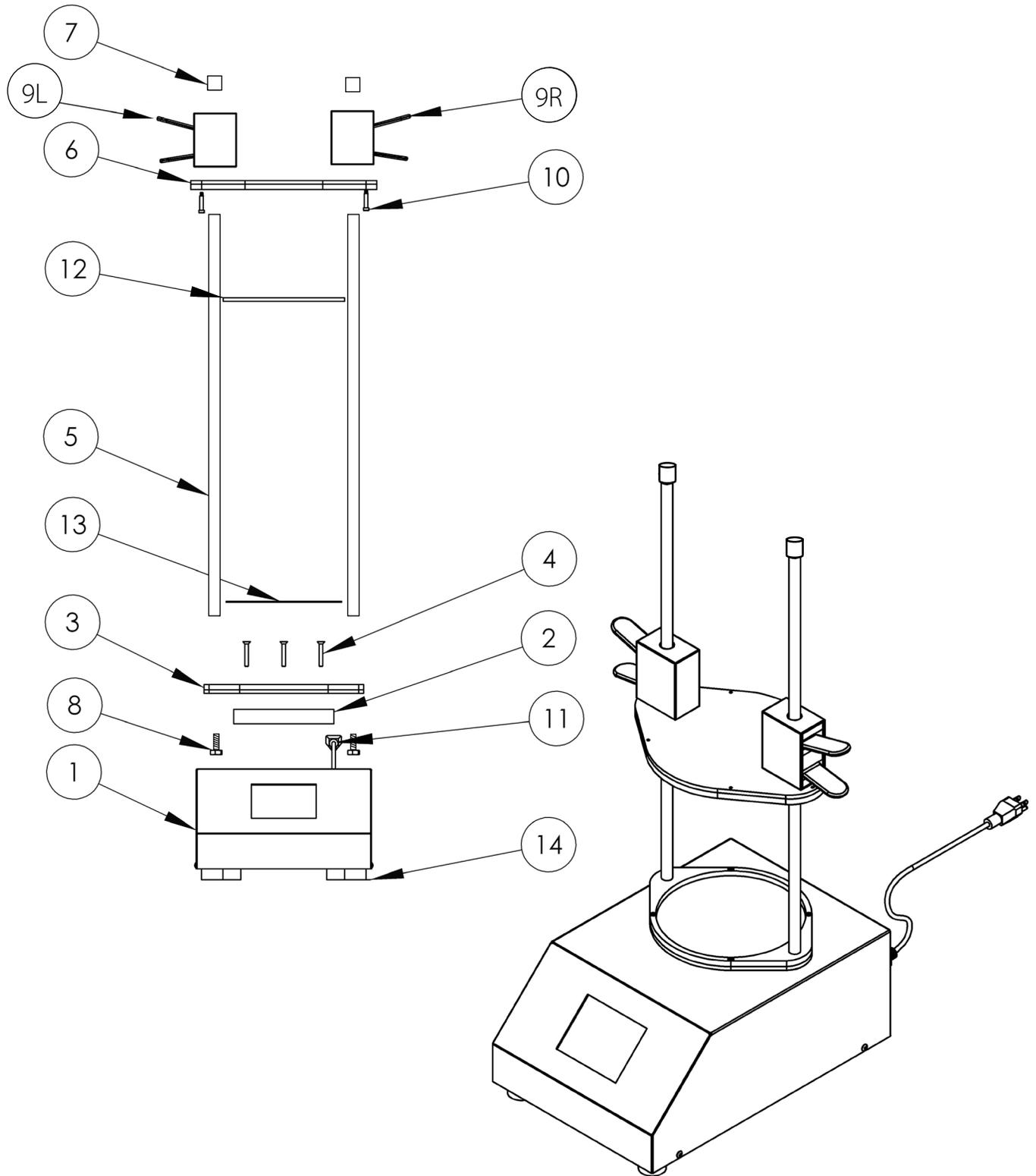


Figure 4.6

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 | WGV8-CLAMP_ROD_CAP | 2 | Clamp Rod Cap |
| 8 | WGSW-501100HHSZ5 | 2 | 1/2-13x1" Hex Head |
| 9R | WGSC-CLAMP_RIGHT | 1 | Sieve Clamp, Right-Hand Side |
| 9L | WGSC-CLAMP_LEFT | 1 | Sieve Clamp, Left-Hand Side |
| 10 | WGSW-SB-02407525HANAS | 2 | 10-24 Shoulder Bolt, .75" Shoulder, .375" Thread |
| 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.
- Combination Brass Frame with Stainless Steel Cloth offers adequate service life. The frames of these sieves feature a stainless steel skirt for added durability.

| 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.

- 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 ISO565/3310-1 212 μ m 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 trace-

able 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.

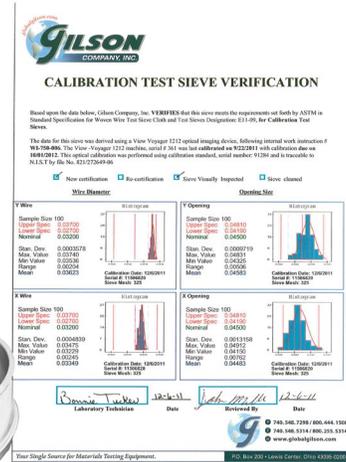
New Gilson Test Sieves are guaranteed to meet the requirements of ASTM or ISO for Compliance, Inspection or Calibration grades as ordered, but for continued assurance of performance, procedures should be in place to regularly check working sieves as they age. Wire cloth stretches, sags, or even tears, 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 ±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 | V8BHXP | V8BFXPN | V8BHXP |
| Extended Rim Pan | | | V8SFXPE | V8SHXPE | V8BFXPE | V8BHXP | V8BFXPE | V8BHXP |
| 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

technote

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

 **helpfulhint**

- 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 | |
| 4.5mm | V200SF 4.5M | V200SH 4.5M | V200CF 4.5M | V200CH 4.5M | |
| 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 | V200SH XPN | V200BF XPN | V200BH XPN | |
| | V200S XCV | V200S XCV | V200B XCV | V200B XCV | |