

Sloan® OPTIMA®

Sensor Activated Flushometers

Description

Exposed, Sensor Activated Sloan® Model Urinal Flushometer for 11/4" top spud urinals

Flush Cycle

- ☐ Model 180 ES-S Conventional (3.5 gpf/13.2 Lpf)
- ☐ Model 180-1.5 ES-S Water Saver (1.5 gpf/5.7 Lpf)
- ☐ Model 180-1.0 ES-S Low Consumption (1.0 gpf/3.8 Lpf)

Variations

- □ DFB Dual Filtered Fixed Bypass Diaphragm
- 11/2" Flush Connection

Specifications

Quiet, Exposed, Diaphragm Type, Chrome Plated Urinal Flushometer for either left or right hand supply with the following features:

- High Chloramine Resistant PERMEX™ Synthetic Rubber Diaphragm with Linear Filtered Bypass and Vortex Cleansing Action^T
- OPTIMA® EL-1500 Self-Adaptive Infrared Sensor with Indicator Light
- Non-Hold-Open Integral Solenoid Operator
- Chrome Plated Wall Cover Plate (for 2-gang Electrical Box) with Vandal Resistant Screws
- 1" I.P.S. Screwdriver Bak-Chek® Angle Stop
- Vandal Resistant Stop Cap
- Adjustable Tailpiece
- · Vacuum Breaker with Flush Connection
- Spud Coupling and Spud Flange for 11/4" Top Spud
- Sweat Solder Adapter with Cover Tube and Cast Wall Flange
- High Copper, Low Zinc Brass Castings for Dezincification Resistance
- No External Volume Adjustment to Ensure Water Conservation
- Low Consumption Flush Accuracy
- Stop Seat and Vacuum Breaker Molded from PERMEX™ Rubber Compound for Chloramine Resistance

Valve Body, Cover, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance with the applicable sections of ASSE 1037, ANSI/ASME A112.19.2 and Military Specification V-29193. Installation conforms to ADA requirements.

Accessories

- □ EL-154 Transformer (120 VAC/24 VAC, 50 VA)
 □ EL-342 Transformer (240 VAC/24 VAC, 50 VA)
 □ EL-518-A Flushometer Electrical Box Positioning and Support Kit

Contractor-friendly Packaging

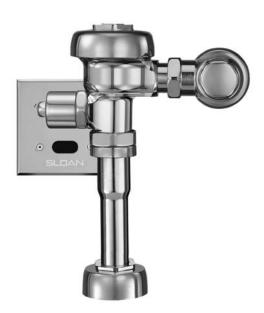
Installation time is reduced by packaging rough-in components and finishing components separately. In addition, all main valve components and subassemblies are factory assembled requiring less field assembly of the valve on the job site. Components are packaged as follows:

- Stops and Supply Kits, packaged separately 6 per package
- Fully assembled Valve, packaged with complete Vacuum Breaker Assembly and Flange Kit — 2 per package

See Accessories Section and OPTIMA Accessories Section of the Sloan catalog for details on these and other OPTIMA Flushometer variations.







Automatic

Sloan OPTIMA® equipped Flushometers provide the ultimate in sanitary protection and automatic operation. There are no handles to trip or buttons to push. The Flushometer operates by means of an infrared sensor that adapts to its surrounding. Once the user enters the sensor's effective range and then steps away, the Flushometer Solenoid initiates the flushing cycle to flush the fixture.

Hygienic

User makes no physical contact with the Flushometer surface. Helps control the spread of infectious diseases. Twenty-four Hour Sentinel Flush keeps fixture fresh during periods of nonuse.

Economical

Automatic operation provides water usage savings over other flushing devices. Reduces maintenance and operation costs.

Practical

Solid state electronic circuitry assures years of dependable, trouble-free operation. The operational components of the Flushometer are identical to a handle operated Sloan® Flushometer.

Warranty

3 year (limited)

Made in the U.S.A.

This space for Architect/Engineer approval	
Job Name	Date
Model Specified	Quantity
Variations Specified	
Customer/Wholesaler	
Contractor	
Architect	

180 ES-S

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ELECTRICAL SPECIFICATIONS

Control Circuit

Solid State 24 VAC Input 24 VAC Output 8 Second Arming Delay 24 Hour Sentinel Flush

OPTIMA Sensor Range

Nominal 15" - 30" (381 mm - 762 mm) Self-adaptive Window: ± 8" (203 mm)

Solenoid Operator

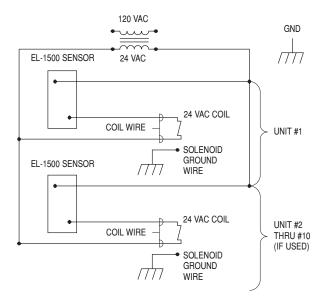
24 VAC, 50/60 Hz

Transformer

Sloan Part #EL-154 120 VAC, 50/60 Hz Primary 24 VAC, 50/60 Hz Secondary Class II, UL Listed, 50 VA.

Sloan Part #EL-342 240 VAC, 50/60 Hz Primary 24 VAC, 50/60 Hz Secondary Class II, UL Listed, 50 VA.

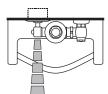
WIRING DIAGRAM



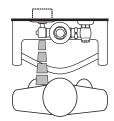
One Transformer serves up to ten (10) OPTIMA Closet/Urinal Flushometers. Specify number of transformers required accordingly.

OPERATION

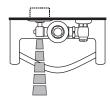
 A continuous, invisible light beam is emitted from the OPTIMA Sensor.



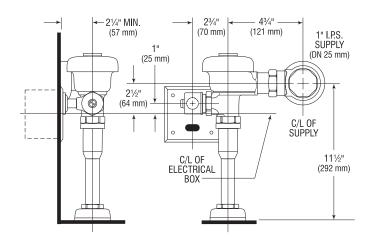
2. As the user enters the beam's effective range (15" to 30") the beam is reflected into the OPTIMA Scanner Window and transformed into a low voltage electrical circuit. Once activated, the Output Circuit continues in a "hold" mode for as long as the user remains within the effective range of the Sensor.



3. When the user steps away from the OPTIMA Sensor, the circuit immediately initiates an electrical "one-time" signal that operates the Solenoid. This initiates the flushing cycle to flush the fixture. The Circuit then automatically resets and is ready for the next user.

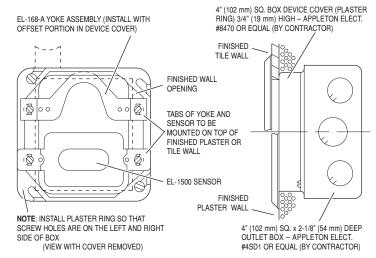


VALVE ROUGH-IN



ELECTRICAL BOX INSTALLATION SENSOR LOCATION AND POSITIONING IS CRITICAL

Failure to properly position the electrical boxes to the plumbing rough-in will result in improper installation and impair product performance. All tradesmen (plumbers, electricians, tile setters, etc.) involved with the installation of this product must coordinate their work to assure proper product installation. Installation Template furnished with Flushometer.



To ensure a perfect rough-in, Sloan recommends the use of the EL-518-A Flushometer Electrical Box Positioning and Support Kit. Specify and order the EL-518-A Kit separately. Consult factory for installation details.

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