

152-1.6 ES-S

Description

Concealed, Sensor Activated Crown® Model Water Closet Flushometer, for wall hung back spud bowls. Valve cannot be converted to exceed a low consumption flush.

Flush Cycle

□ Model 152-1.6 ES-S Low Consumption (1.6 gpf/6.0 Lpf)

Specifications

Quiet, Concealed, Piston Type, Rough Brass Closet Flushometer with the following features:

- Fixed Volume Piston with Dual Filtered O-ring Bypass
- OPTIMA® EL-1500-L Self-Adaptive infrared Sensor with Indicator Light
- User friendly three (3) second Flush Delay
- Courtesy Flush® Override Sensor Plate
- Chrome Plated Wall Cover Plate (for 2-gang Electrical box) with Vandal Resistant Screws
- 1" I.P.S. Wheel Handle Bak-Chek® Angle Stop
- Adjustable Tailpiece
- High Back Pressure Vacuum Breaker Flush Connection and Spud Coupling for 1½" Concealed Back Spud
- Sweat Solder Adapter
- Main Seat filters water supplied to the Solenoid Operator
- Type 316 Stainless Steel Non-Hold-Open Relief Valve Assembly
- High Copper, Low Zinc Brass Castings for Dezincification Resistance
- Valve designed to accept Low and Ultra-Low Consumption Pistons only to ensure Water Conservation
- Non-Hold-Open Integral Solenoid Operator, Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- Main Seat, Stop Seat and Vacuum Breaker to be molded from PERMEX® Rubber Compound for Chloramine Resistance

Valve Body, 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. Installation conforms to ADA requirements.

L Dimension

Specify the "L" Dimension for the proper length of the Flush Connection. The "L" Dimension is equal to the Wall Thickness (to nearest whole inch) plus 2¾".

Variations

- TP Trap Primer Elbow
- YI Two Wall Bumpers (for open seat without cover)

Accessories

- EL-154 Transformer (120 VAC/24 VAC 50 VA)
- EL-342 Transformer (240 VAC/24 VAC 50 VA)

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

Sloan Electronics are:



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

The information contained in this document is subject to change without notice.



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 except to initiate the Override Plate when required. 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 Crown® Flushometer.

Warranty

3 year (limited)



152-1.6 ES-S

WIRING DIAGRAM



Description

Concealed, Sensor Activated Crown® Model Water Closet Flushometer, for wall hung back spud bowls. Valve cannot be converted to exceed a low consumption flush.

Flush Cycle

□ Model 152-1.6 ES-S Low Consumption (1.6 gpf/6.0 Lpf)

ELECTRICAL SPECIFICATIONS

Control Circuit

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

OPTIMA® Sensor Range

Nominal 22" - 42" (559 mm - 1067 mm)
Self-adaptive Window: ± 10" (254 mm)

Solenoid Operator

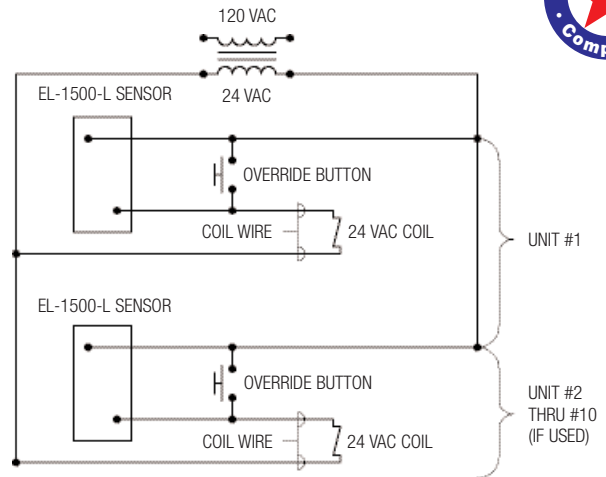
24 VAC, 50/60 Hz

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

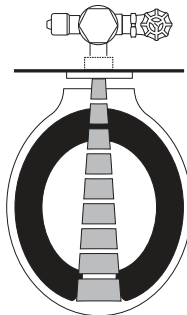
240 VAC, 50/60 Hz Primary
24 VAC, 50/60 Hz Secondary
Class II, UL Listed, 50 VA.



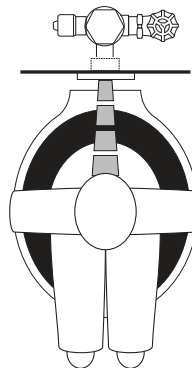
One Transformer serves up to ten (10) OPTIMA Closet/Urinal Flushometers. Specify number of transformers required accordingly.

OPERATION

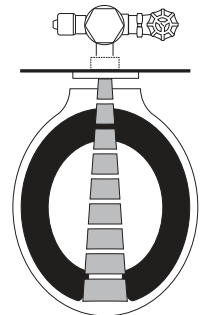
1. A continuous, invisible light beam is emitted from the OPTIMA® Sensor.



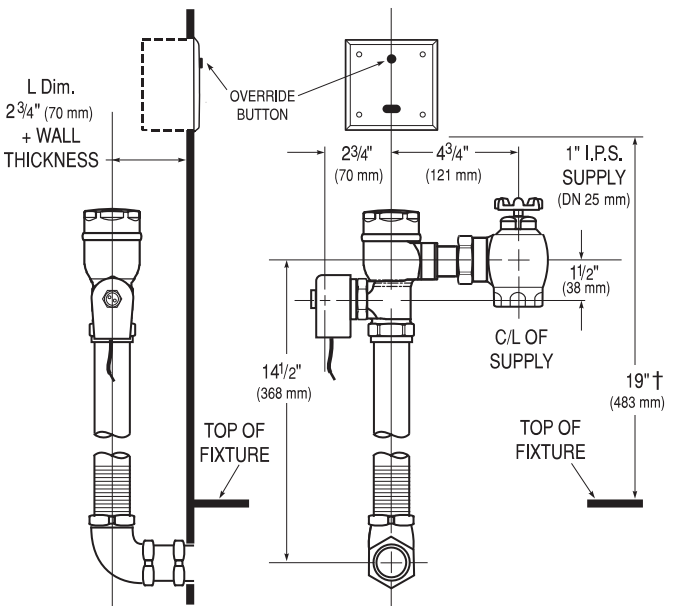
2. As the user enters the beam's effective range (22" to 42") the beam is reflected into the OPTIMA® Scanner Window and transformed into a low voltage electrical circuit. Once activated, the Output Circuit continues in a "hold" mode for as long as the user remains within the effective range of the Sensor.



3. When the user steps away from the OPTIMA® Sensor, the circuit waits 3 seconds (to prevent false flushing) then 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.



ROUGH-IN

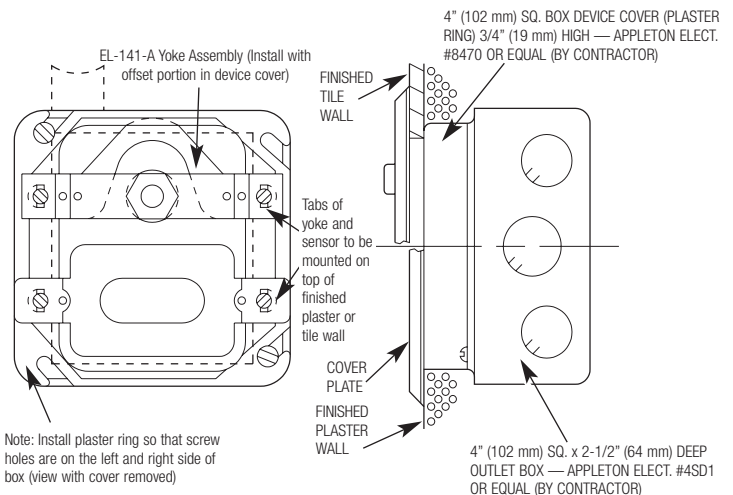


† Position of Sensor Box can be raised or lowered 1" (25 mm) if in conflict with Handicap Grab Bars.

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.



SLOAN • 10500 SEYMOUR AVENUE • FRANKLIN PARK, IL 60131

Phone: 1-800-9-VALVE-9 or 1-847-671-4300 • Fax: 1-800-447-8329 or 1-847-671-4380 • <http://www.sloanvalve.com>