CODE NUMBER

3451504

DESCRIPTION

1.28 gpf, Rough Brass Finish, Single Flush, Electrical Override, Hardwired, Sensor-Operated, Standard (not included, order separately) Wall Box, Royal® Concealed Sensor Water Closet Flushometer.

DETAILS

- Flush Volume: 1.28 gpf (4.8 Lpf)
- Finish: Rough Brass (RB)
- Power Type: Hardwired (HW)
- Valve: Diaphragm
- Valve Body Material: Semi-red Brass
- Fixture Type: Water Closet
- Fixture Connection: Not Included
- Supply Pipe: 1" (25mm)
- Override: Electrical (OR)
- Wall Box: Standard (not included, order separately)

FEATURES

- PERMEX® Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- 1" I.P.S. Wheel Handle Bak-Chek® Angle Stop
- User friendly three (3) second Flush Delay
- OPTIMA® EL-1500 Self-Adaptive Infrared Sensor with Indicator Light
- Adjustable Tailpiece
- Non-Hold-Open Integral Solenoid Operator, Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- 1" Female I.P.S. Union Outlet
- Courtesy Flush® Override Button
- Diaphragm, Stop Seat and Vacuum Breaker to be molded from PERMEX® rubber compound for Chloramine resistance

VIDEOS

▶ ESS Flushometer

COMPLIANCES & CERTIFICATIONS

(UL Certified, ADA Compliant, cUPC Certified, BAA Compliant, WaterSense Listed, GreenSpec, LEED V4 Water Efficiency Credit, Green Globes Water Credit)

RECOMMENDED SPECIFICATION

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 and ANSI/ASME 112.19.2.

ELECTRICAL SPECIFICATIONS

- Arming Delay: 16 seconds
- Control Circuit: 24 VAC Input/24 VAC Output/Solid State
- Flush Delay: 3s
- Self-Adaptive Window: ±10
- Sensor Range: 22"–42" (559–1,067mm)
- Solenoid Operator: 24 VAC
- Transformers:
  - 0345154
  - 0345999

VALVE OPERATING PRESSURE (FLOWING)

15–80 PSI (103–552 kPa). Specific fixtures may require greater minimum flowing pressure - consult manufacturer requirements.

DOWNLOADS

- Control Stop Repair and Maintenance Guide
- Flush Connections Flanges Repair and Maintenance Guide
- Tail Piece Repair and Maintenance Guide
- Concealed Flushometers Repair and Maintenance Guide
- Optima ESS Repair and Maintenance Guide
- Additional Downloads

NOTES

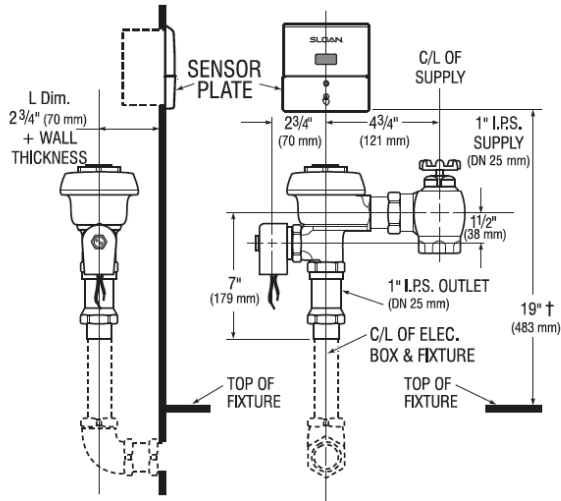All information contained within this document subject to

change without notice.

Looking for other variations of the ROYAL 150 ESS product?
View the general spec sheet with all options.

Find a compatible urinal for this flushometer.
Find a compatible water closet for this flushometer.

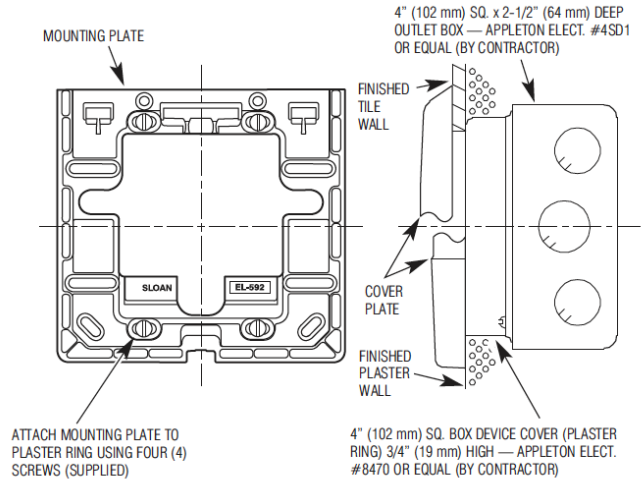WaterSense compliant when used with a WaterSense compliant fixture

ROUGH-IN

NOTE: Flush Connection shown with dotted lines is not included.

† 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.