

#### **CODE NUMBER**

3451637

#### **DESCRIPTION**

1.6 gpf, Rough Brass Finish, Single Flush, 2-10.75 L Dimension, Trap Primer Outlet Tube, Electrical Override, Hardwired, Sensor-Operated, Royal® Concealed Sensor Hardwired Water Closet Flushometer.

#### **DETAILS**

Flush Volume: 1.6 gpf (6.0 Lpf)
Finish: Rough Brass (RB)
Power Type: Hardwired (HW)

· Valve: Diaphragm

• Valve Body Material: Semi-red Brass

Fixture Type: Water Closet
Fixture Connection: Top spud
Rough-In Dimension: 24" (610mm)
Spud Coupling: 1 ½" (38mm)
Supply Pipe: 1" (25mm)

• L Dimension: 2"-10 3/4" (51-273mm) (2-10-3/4-LDIM)

Override: Electrical (OR)Outlet Tube: Trap Primer (TP)

#### **FEATURES**

- PERMEX® Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- User friendly three (3) second Flush Delay
- OPTIMA® EL-1500 Self-Adaptive Infrared Sensor with Indicator Light
- Die Cast Sensor Plate with no visible Fasteners (for 2-gang Electrical Box)
- Non-Hold-Open Integral Solenoid Operator, Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- Stop Seat and Vacuum Breaker molded from PERMEX® Rubber Compound for Chloramine Resistance
- High Back Pressure Vacuum Breaker Flush Connection, Spud Coupling and Flanges for 11/2" Exposed Top Spud
- 1" I.P.S. Wheel Handle Bak-Chek® Angle Stop
- Courtesy Flush® Override Button

## **VIDEOS**



ESS Flushometer



## **COMPLIANCES & CERTIFICATIONS**









(ADA Compliant, cUPC Certified, BAA Compliant, UL Certified)

## 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: Solid State/24 VAC Input/24 VAC Output

• Flush Delay: 3s

• Self-Adaptive Window: ±10

• Sensor Range: 22"-42" (559-1,067mm)

Solenoid Operator: 24 VAC

Transformers:03451540345999

# **VALVE OPERATING PRESSURE (FLOWING)**

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

## **DOWNLOADS**

- Optima Sensor Activated Royal Installation Instructions
- Royal 140/152/153/195 ESS TMO SWB Installation Instructions
- 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

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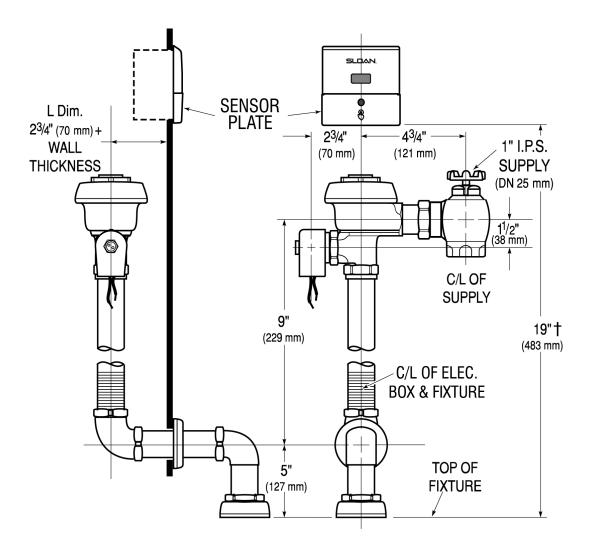
## **NOTES**

All information contained within this document subject to change without notice.

Looking for other variations of the ROYAL 153 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.

# **ROUGH-IN**



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