

### **CODE NUMBER**

3451109

### **DESCRIPTION**

1.6 gpf, Rough Brass Finish, Fixture Connection Rear Spud, Single Flush, 2-10.75 L Dimension, Hardwired, Sensor-Operated with Modular Plug, 24V, Royal® Concealed Sensor Hardwired Water Closet Flushometer.

### **DETAILS**

• Flush Volume: 1.6 gpf (6.0 Lpf)

Finish: Rough BrassPower Type: HardwiredValve: Diaphragm

• Valve Body Material: Semi-red Brass

Fixture Type: Water ClosetFixture Connection: Rear Spud

• Rough-In Dimension: 14 ½" (368mm)

Spud Coupling: 1 ½" (38mm)
Supply Pipe: 1" (25mm)

• L Dimension: 2"-10 3/4" (51-273mm)

Voltage: 24V

#### **FEATURES**

- PERMEX® Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- 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 and Spud Coupling for 1 1/2" Concealed Back Spud
- OPTIMA® EL-461 Water Resistant (NEMA 4) Infrared Sensor with Indicator Light and 36-Inch Cord with Modular Plug
- User friendly adjustable 2 to 6 second Flush Delay
- Water-Resistant (NEMA 4) Courtesy Flush® Override Button
- Non-Hold-Open Integral Solenoid Operator with 15-Foot Cord and Modular Plug
- Chrome Plated, Surface Mount Sensor Enclosure with Wall Gasket
- 1" I.P.S. Wheel Handle Bak-Chek® Angle Stop

## **VIDEOS**

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ESS Flushometer



## **COMPLIANCES & CERTIFICATIONS**











(ADA Compliant, BAA Compliant, cUPC Certified, UL Certified, UPC 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: 8 seconds

• Control Circuit: Solid State/24 VAC Input/24 VAC Output

• Flush Delay: 2-6s

Sensor Range: 0"-36" (0-914mm)Solenoid Operator: 24 VAC

• Transformers (specify separately):

03451540345999

# **VALVE OPERATING PRESSURE (FLOWING)**

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

# **DOWNLOADS**

- Royal 152/195 ESS TMO Installation Instructions
- Royal ESS Concealed and Exposed Installation Instructions
- Royal ESS Installation Instructions
- Control Stop Repair and Maintenance Guide
- Flush Connections Flanges Repair and Maintenance Guide
- Tail Piece Repair and Maintenance Guide
- Optima ESS Repair and Maintenance Guide
- Optima ESS TMO SWB Concealed Repair and Maintenance Guide
- Optima ESS TMO Exposed Repair and Maintenance Guide
- Flushometer Pressure gauges
- 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 140 ESS product? View the general spec sheet with all options.

## WARRANTY

View Warranty Information

## **ROUGH-IN**

