

**CODE NUMBER**

3451107

**DESCRIPTION**

1.6 gpf, Rough Brass Finish, Fixture Connection Rear Spud, Single Flush, 2-10.75 L Dimension, Trap Primer Outlet Tube, Electrical Override, Hardwired, Sensor-Operated, 24V, With Wall Box, Royal® Concealed Sensor Hardwired Water Closet Flushometer.

**DETAILS**

- Flush Volume: 1.6 gpf (6.0 Lpf)
- Finish: Rough Brass
- Power Type: Hardwired (HW)
- Valve: Diaphragm
- Valve Body Material: Semi-red Brass
- Fixture Type: Water Closet
- Fixture Connection: Rear Spud
- Rough-In Dimension: 14 ½" (368mm)
- Spud Coupling: 1 ½" (38mm)
- Supply Pipe: 1" (25mm)
- L Dimension: 2" - 10 ¾" (51-273mm)
- Override: Electrical
- Wall Box: With (W/BOX)
- Outlet Tube: Trap Primer (TP)
- Voltage: 24V

**FEATURES**

- Flush volumes start as low as 1.28 gpf/4.8 Lpf
- Water conservation is aided by the ADA-compliant, non-hold-open handle, which prevents toilet from exceeding intended flush volume
- Flush accuracy is controlled by CID™ technology, also enhancing water efficiency
- Integrity of the product is maintained with the vandal-resistant stop cap
- Durability is facilitated with high copper, low zinc brass castings for dezincification resistance
- Adjustable tailpiece
- PERMEX synthetic rubber diaphragm with Dual Filtered Fixed Bypass
- Valve body, Cover, Tailpiece and Control Stop shall be in compliance with ASTM Alloy Classification for Semi-Red Brass
- Valve shall be in compliance to the applicable sections of ASSE 1037.

**VIDEOS**

- ▶ [ESS Flushometer](#)



Variation Not Shown: Trap Primer

**COMPLIANCES & CERTIFICATIONS**



(ADA Compliant, BAA Compliant, BABAA Compliant, cUPC Certified, 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 (specify separately):
  - 0345154
  - 0345999

**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](#)

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- [Optima ESS TMO Exposed Repair and Maintenance Guide](#)
- [Flushometer Pressure gauges](#)
- [Additional Downloads](#)

**NOTES**

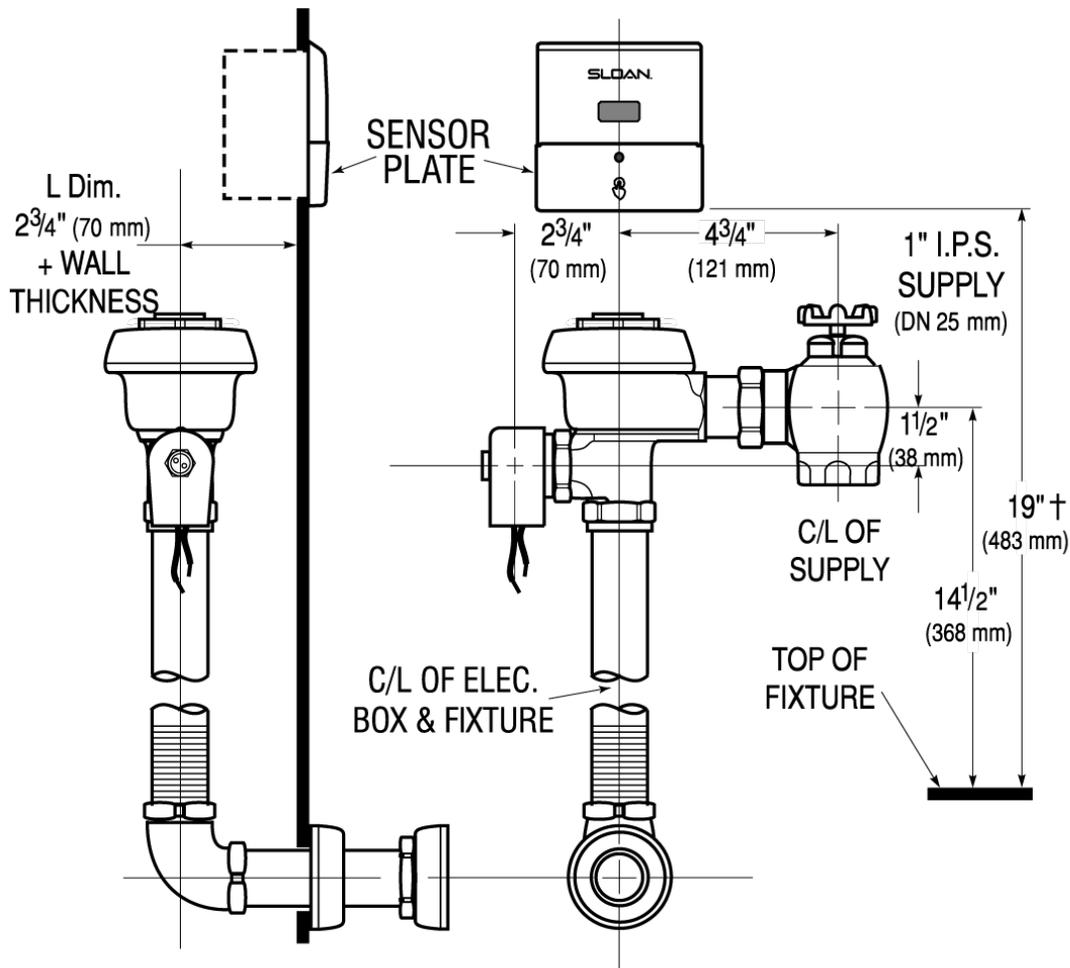
All information contained within this document subject to change without notice.

Looking for other variations of the ROYAL 140 ESS product? [View the general spec sheet with all options.](#)

**WARRANTY**

[View Warranty Information](#)

**ROUGH-IN**



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