

**CODE NUMBER**

3913109

**DESCRIPTION**

1.0 gpf, Rough Brass Finish, Fixture Connection Top Spud, Single Flush, 2-10.75 L Dimension, Less Override, Hardwired, Sensor-Operated, Whitworth Thread, 24V, With Wall Box, Royal® Concealed Sensor Hardwired Urinal Flushometer.

**DETAILS**

- Flush Volume: 1.0 gpf (3.8 Lpf)
- Finish: Rough Brass
- Power Type: Hardwired (HW)
- Valve: Diaphragm
- Valve Body Material: Semi-red Brass
- Fixture Type: Urinal
- Fixture Connection: Top Spud
- Rough-In Dimension: 13 ½" (343mm)
- Spud Coupling: ¾" (19mm)
- Supply Pipe: ¾" (19mm)
- L Dimension: 2" - 10 ¾" (51-273mm)
- Override: Less (L/OR)
- Wall Box: With (W/BOX)
- Voltage: 24V
- Special Features: Whitworth Thread (WWT)

**FEATURES**

- Flush volumes start as low as a pint of water
- Water conservation is aided by the ADA-compliant, non-hold-open handle, which, prevents urinal from exceeding intended flush volume
- Flush accuracy is controlled by CID™ technology, also enhancing water efficiency
- 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](#)



**COMPLIANCES & CERTIFICATIONS**



(ADA Compliant, BAA Compliant, BABAA 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: 1s
- Self-Adaptive Window: ±8
- Sensor Range: 15" - 30" (381 - 762mm)
- 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 ESS Concealed and Exposed Installation Instructions](#)
- [Royal ESS Concealed with Wall Box Installation Instructions](#)
- [Royal ESS TMO Installation Instructions](#)
- [Royal 140/152/153/195 ESS TMO SWB Installation Instructions](#)
- [Royal 152/195 SWB ESS TMO \(Spanish\) Installation Instructions](#)
- [Control Stop Repair and Maintenance Guide](#)
- [Flush Connections Flanges Repair and Maintenance Guide](#)

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