

**CODE NUMBER**

3910113

**DESCRIPTION**

1.28 gpf, Polished Chrome Finish, Fixture Connection Top Spud, Single Flush, Hardwired, Solenoid-Operated, 24V, Royal® Exposed Solenoid (less sensor) Hardwired Water Closet Flushometer.

**DETAILS**

- Flush Volume: 1.28 gpf (4.8 Lpf)
- Finish: Polished Chrome (CP)
- Power Type: Hardwired (HW)
- Valve: Diaphragm
- Valve Body Material: Semi-red Brass
- Fixture Type: Water Closet
- Fixture Connection: Top Spud
- Rough-In Dimension: 11 ½" (292mm)
- Spud Coupling: 1 ½" (38mm)
- Supply Pipe: 1" (25mm)
- Voltage: 24V

**FEATURES**

- Non-Hold-Open Integral Solenoid Operator
- Solenoid Wall Flange (for 2-gang Electrical Box)
- 1" I.P.S. Screwdriver Bak-Chek® Angle Stop with free spinning vandal resistant stop cap
- Free spinning Vandal Resistant Stop Cap and Adjustable Tailpiece
- Flex Tube Dual Filtered Bypass Diaphragm designed for improved life and reduced maintenance
- High Back Pressure Vacuum Breaker Flush Connection with One-Piece Bottom Hex Coupling Nut, Spud Coupling and Flange for 1-1/2" Top Spud
- Sweat Solder Adapter w/Cover Tube and Cast Wall Flange with Set Screw
- Non-Hold-Open Integral Solenoid Operator, Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- Diaphragm, Stop Seat and Vacuum Breaker to be molded from PERMEX® rubber compound for Chloramine resistance
- Model ES flushometers are activated remotely by an electric push button (not included). "ES" flushometers offer solutions for installations that require automatic, remote or other control requirements



**COMPLIANCES & CERTIFICATIONS**



(ADA Compliant, BAA Compliant, BABAA Compliant, BREEAM Water Credit, cUPC Certified, cUPC Green Certified, Green Globes Water Credit, LEED V4 Water Efficiency Credit, Satisfies LEED Credits, UL Certified, UPC Certified, WaterSense Listed)

**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**

- 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 110/111 Electrical Box Installation Instructions](#)
- [Royal Manual Diaphragm Flushometer Repair and Maintenance Guide](#)
- [Control Stop Repair and Maintenance Guide](#)
- [Flush Connections Flanges Repair and Maintenance Guide](#)
- [Tail Piece Repair and Maintenance Guide](#)
- [ES 24V-120V Exposed Flushometers Repair and Maint Guide](#)
- [Additional Downloads](#)

**NOTES**

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

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Looking for other variations of the ROYAL 111 ES product?  
[View the general spec sheet with all options.](#)

WaterSense compliant when used with a WaterSense compliant fixture

**WARRANTY**

[View Warranty Information](#)

**ROUGH-IN**

