

CODE NUMBER

3451603

DESCRIPTION

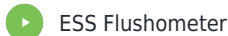
1.6 gpf, Rough Brass Finish, Fixture Connection Rear Spud, Single Flush, 2-10.75 L Dimension, Electrical Override, Hardwired, Sensor-Operated, With Wall Box, Royal® Concealed Sensor Hardwired Water Closet Flushometer.

DETAILS

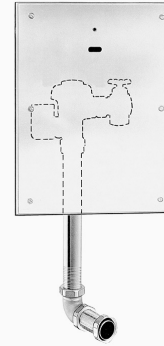
- Flush Volume: 1.6 gpf (6.0 Lpf)
- Finish: Rough Brass (RB)
- Power Type: Hardwired (HW)
- Valve: Diaphragm
- Valve Body Material: Semi-red Brass
- Fixture Type: Water Closet
- Fixture Connection: Rear Spud
- Rough-In Dimension: 24" (610mm)
- Spud Coupling: 1 ½" (38mm)
- Supply Pipe: 1" (25mm)
- L Dimension: 2"-10 ¾" (51-273mm) (2-10-3/4-LDIM)
- Override: Electrical (OR)
- Wall Box: With (W/BOX)

FEATURES

- PERMEX® Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- 1" I.P.S. Wheel Handle Bak-Chek® Angle Stop
- User friendly three (3) second Flush Delay
- OPTIMA® EL-1500 Self-Adaptive Infrared Sensor with Indicator Light
- Adjustable Tailpiece
- Sweat Solder Adapter
- Non-Hold-Open Integral Solenoid Operator, Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- High Back Pressure Vacuum Breaker Flush Connection and Spud Coupling for 11/2" Concealed Back Spud
- 13" x 17" EASY ACCESS® Wall Box with Stainless Steel Access Panel and Vandal Resistant Screws
- Courtesy Flush® Override Button
- Diaphragm, Stop Seat and Vacuum Breaker to be molded from PERMEX® rubber compound for Chloramine resistance

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: 24 VAC Input/24 VAC Output/Solid State
- Flush Delay: 3s
- Self-Adaptive Window: ±10
- Sensor Range: 22"-42" (559-1,067mm)
- Solenoid Operator: 24 VAC
- Transformers:
 - 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/Sloan/Crown SWB ESS Installation Instructions](#)
- [Royal ESS Concealed and Exposed Installation Instructions](#)
- [Royal 152/195 ESS TMO Concealed Installation Instructions](#)
- [150/152/190/194/195 ES-SM Installation Instructions](#)
- [Royal ESS Concealed with Wall Box 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](#)
- [ESS TMO 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 152 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.

Side View Dimensions:

- Top arm width: 4" (102 mm)
- Top arm height: 17 1/8" (435 mm)
- Top arm to top of fixture: 14 1/2" (368 mm)
- Top arm to top of fixture: 8" (203 mm)
- Top arm to top of fixture: 6" (152 mm) MIN. SPACE REQUIREMENT IN WALL
- Top arm to top of fixture: "L" Dim. 2 3/4" (70 mm) + WALL THICKNESS

Front View Dimensions:

- Top arm width: 7 1/4" (184 mm)
- Top arm height: 4 1/4" (108 mm)
- Top arm to top of fixture: 18 1/2" (470 mm)
- Top arm to top of fixture: 13 1/8" (333 mm)
- Top arm to top of fixture: 14 1/2" (368 mm)
- Top arm to top of fixture: 4 3/4" (121 mm)
- Top arm to top of fixture: C/L OF FIXTURE

Labels:

- OVERSIDE BUTTON
- OPTIMA SENSOR
- 1" I.P.S. (25 mm DN) WATER SUPPLY

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