


**Royal® Sensor Flushometer**

# ROYAL 111 ESS-1.6-PB-HW-24V

## Product description

1.6 gpf, Polished Brass Finish, Fixture Connection Top Spud, Single Flush, 1” Control Stop, Electrical Override, Hardwired, Sensor-Operated, 24V, Royal® Exposed Sensor Hardwired Water Closet Flushometer.

## Compliances & Certifications

(ADA Compliant*, BAA Compliant, BABAA Compliant, IAPMO, UL Certified (US), cUPC Certified)

**Code 3450002**

### Finish

Polished Brass (PB)

### Downloads

- Royal ESS Concealed and Exposed Installation Instructions.pdf
- Control Stop Repair and Maintenance Guide.pdf
- Flush Connections Flanges Repair and Maintenance Guide.pdf
- Special Finishes Brochure.pdf
- Retrofits Brochure.pdf
- Additional Downloads

### Videos

- ESS Flushometer



⚠ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

Sloan 10500 Seymour Ave, Franklin Park 800.982.5839 sloan.com

## Details

- Flush Volume: 1.6 gpf (6.0 lpf)
- Finish: Polished Brass (PB)
- Power Type: Hardwired (HW)
- Valve: Diaphragm
- Valve Body Material: Semi-red Brass
- Fixture Type: Water Closet
- Fixture Connection: Top Spud
- Rough-in Dimension: 11.5” (292mm)
- Spud Coupling: 1.5” (38mm)
- Supply Pipe: 1” (25mm)
- Override: Electrical
- Control Stop: 1”
- Voltage: 24V (24V)

## Features

- 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

## Recommended specifications

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: 3 seconds
- Sensor Range: 22”-42” (559 - 1067mm)
- Self-Adaptive Window: ±10”
- Solenoid Operator: 24 VAC
- Transformers (Specify Separately):
  - EL-154/0345154
  - EL-342/0345999

## Valve Operating Pressure (Flowing)

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

## Warranty

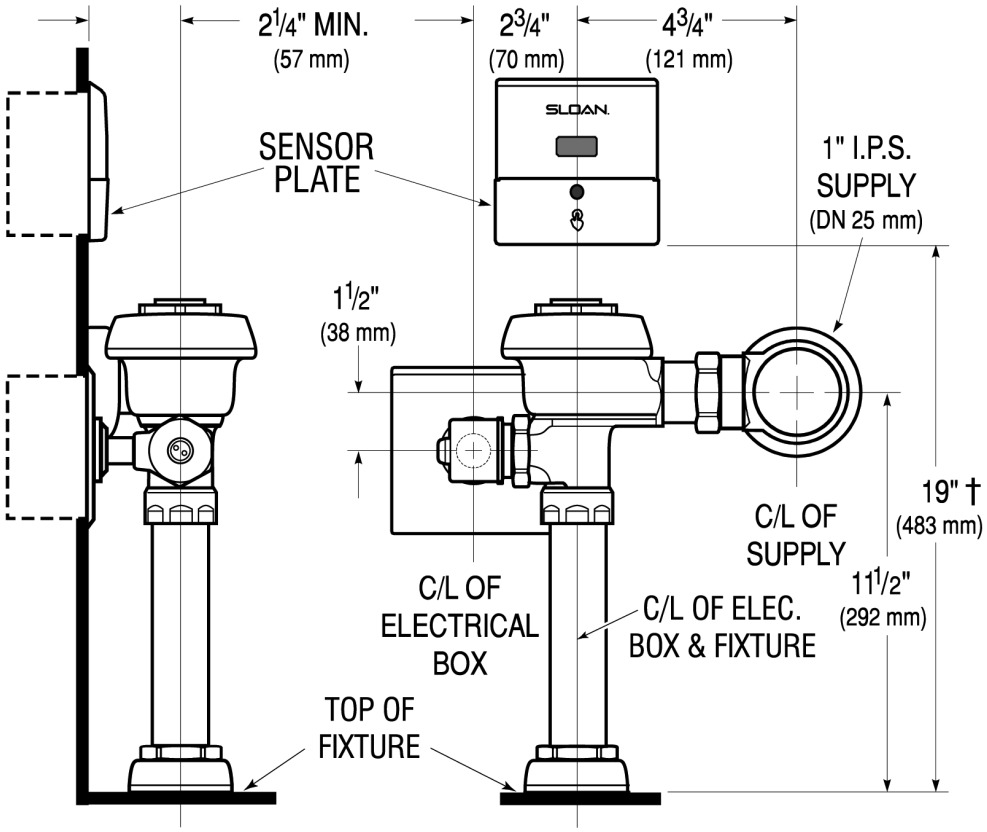
View Warranty Information

## Notes

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

*Compliant with ADA accessibility requirements when installed according to ADA standards.

Looking for other variations of the ROYAL 111 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.


2¼" MIN.
(57 mm)
2¾"
(70 mm)
4¾"
(121 mm)
SLOAN
SENSOR PLATE
1" I.P.S. SUPPLY
(DN 25 mm)
1½"
(38 mm)
19" †
(483 mm)
C/L OF SUPPLY
11½"
(292 mm)
C/L OF ELECTRICAL BOX
C/L OF ELEC. BOX & FIXTURE
TOP OF FIXTURE