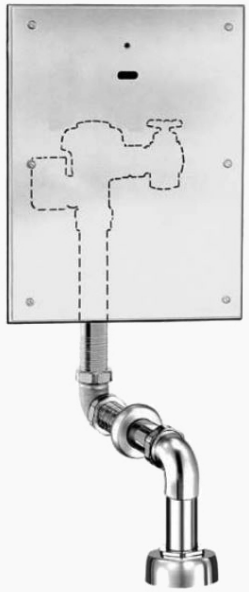


Royal® Sensor Flushometer

ROYAL 153 ESS-3.5-BSS-WB ESS-HW-24V

Product description

3.5 gpf, Stainless Steel Finish, Fixture Connection Top Spud, Single Flush, 11”-12.75” L Dimension, Electrical Override, Hardwired, Sensor-Operated, 24V, Wall Box with 13” x 17” Stainless Steel Access Panel Wall Box, Royal® Concealed Sensor Hardwired Water Closet Flushometer.

Compliances & Certifications

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

Code 3451632

Finish

Stainless Steel (BSS)

Downloads

- Royal ESS Concealed and Exposed Installation Instructions.pdf
- Royal 152_195 ESS TMO (Spanish) Installation Instructions.pdf
- Control Stop Repair and Maintenance Guide.pdf
- Flush Connections Flanges Repair and Maintenance Guide.pdf
- Flushometer Pressure Gauges.pdf
- Flushometers 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: 3.5 gpf (13.2 lpf)
- Finish: Stainless Steel (BSS)
- Power Type: Hardwired (HW)
- Valve: Diaphragm
- Valve Body Material: Semi-red Brass
- Fixture Type: Water Closet
- Fixture Connection: Top Spud
- Rough-in Dimension: 14" (356mm)
- Spud Coupling: 1.5" (38mm)
- Supply Pipe: 1" (25mm)
- L Dimension: 11"-12.75" (279-324mm)
- Override: Electrical
- Wall Box: Wall Box with 13" x 17" Stainless Steel Access Panel (WB ESS)
- Voltage: 24V (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

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

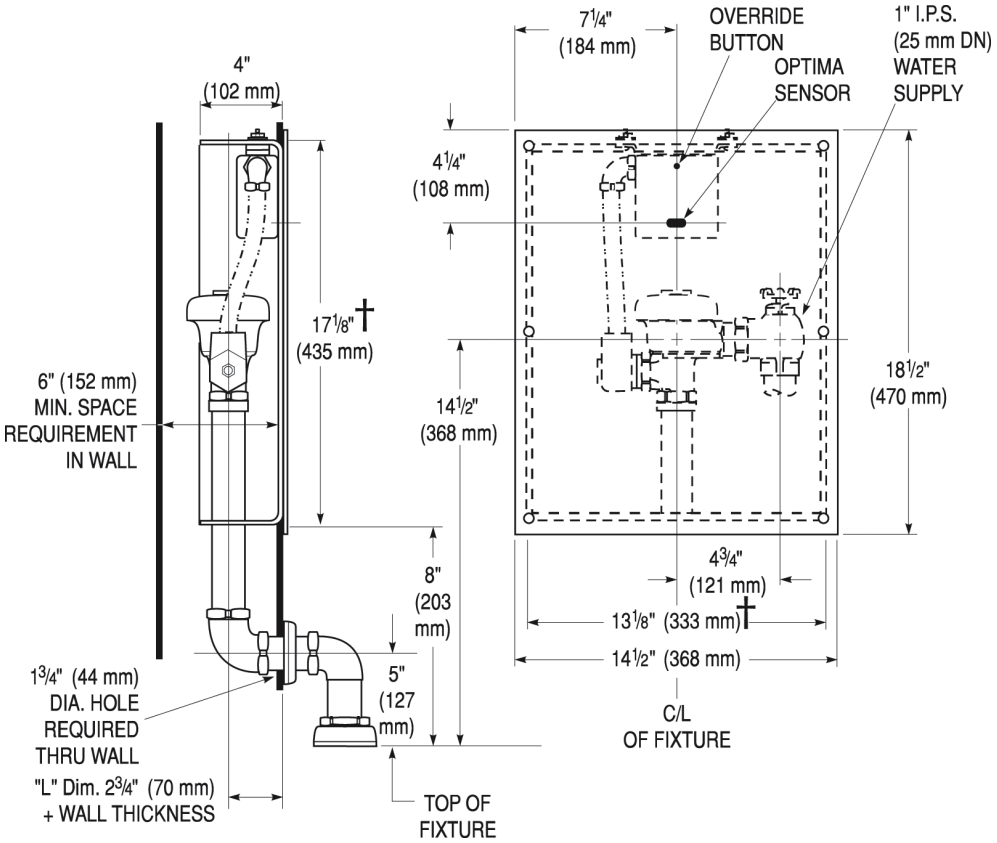
View Warranty Information

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 153 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.


4"
(102 mm)
17 1/8" †
(435 mm)
6" (152 mm)
MIN. SPACE
REQUIREMENT
IN WALL
8"
(203
mm)
5"
(127
mm)
1 3/4" (44 mm)
DIA. HOLE
REQUIRED
THRU WALL
"L" Dim. 2 3/4" (70 mm)
+ WALL THICKNESS
TOP OF
FIXTURE
7 1/4"
(184 mm)
OVERRIDE
BUTTON
OPTIMA
SENSOR
1" I.P.S.
(25 mm DN)
WATER
SUPPLY
4 1/4"
(108 mm)
14 1/2"
(368 mm)
18 1/2"
(470 mm)
4 3/4"
(121 mm)
13 1/8" (333 mm) †
14 1/2" (368 mm)
C/L
OF FIXTURE