

**CODE NUMBER**

3452630

**DESCRIPTION**

0.125 gpf, Dual-Filtered Bypass, Polished Chrome Finish, Fixture Connection Top Spud, Single Flush, Hardwired, Sensor-Operated, Royal® Exposed Sensor Hardwired Urinal Flushometer.

**DETAILS**

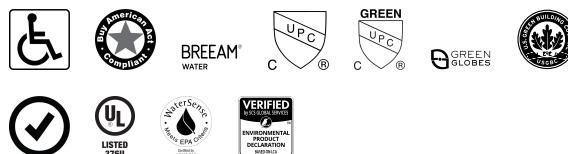
- Flush Volume: 0.125 gpf (0.5 Lpf)
- Finish: Polished Chrome (CP)
- Power Type: Hardwired (HW)
- Valve: Diaphragm
- Bypass: Dual-Filtered Bypass (DBP)
- Valve Body Material: Semi-red Brass
- Fixture Type: Urinal
- Fixture Connection: Top Spud
- Rough-In Dimension: 11 1/2" (292mm)
- Spud Coupling: 3/4" (19mm)
- Supply Pipe: 3/4" (19mm)

**FEATURES**

- Sweat Solder Adapter w/Cover Tube and Cast Wall Flange w/Set Screw
- OPTIMA® EL-1500 Self-Adaptive Infrared Sensor with Indicator Light
- 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 with One-Piece Bottom Hex Coupling Nut, Spud Coupling and Flange for 3/4" Top Spud
- Stop Seat and Vacuum Breaker molded from PERMEX® Rubber Compound for Chloramine Resistance
- Quiet, Exposed, Dual Filtered Diaphragm Assembly, Chrome Plated Urinal
- 3/4" I.P.S. Screwdriver Bak-Chek® Angle Stop with Vandal Resistant Stop Cap
- Infrared Sensor with Multiple-focused, Lobular Sensing Fields for high and low target detection
- Watersense compliant when used with a 0.125 gpf WaterSense fixture

**VIDEOS**

- ▶ ESS Flushometer
- ▶ PVD Special Finishes

**COMPLIANCES & CERTIFICATIONS**

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

**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: 24 VAC Input/24 VAC Output/Solid State
- Self-Adaptive Window:  $\pm 8$
- 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 TMO Installation Instructions
- Royal ESS Concealed and Exposed 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
- Flushometer Pressure gauges

**Sloan 10500 Seymour Ave, Franklin Park, IL 60131**  
Phone: 800.982.5839 • Fax: 800.447.8329 • [sloan.com](http://sloan.com)

- Additional Downloads

**NOTES**

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

Looking for other variations of the ROYAL 186 ESS product?  
[View the general spec sheet with all options.](#)

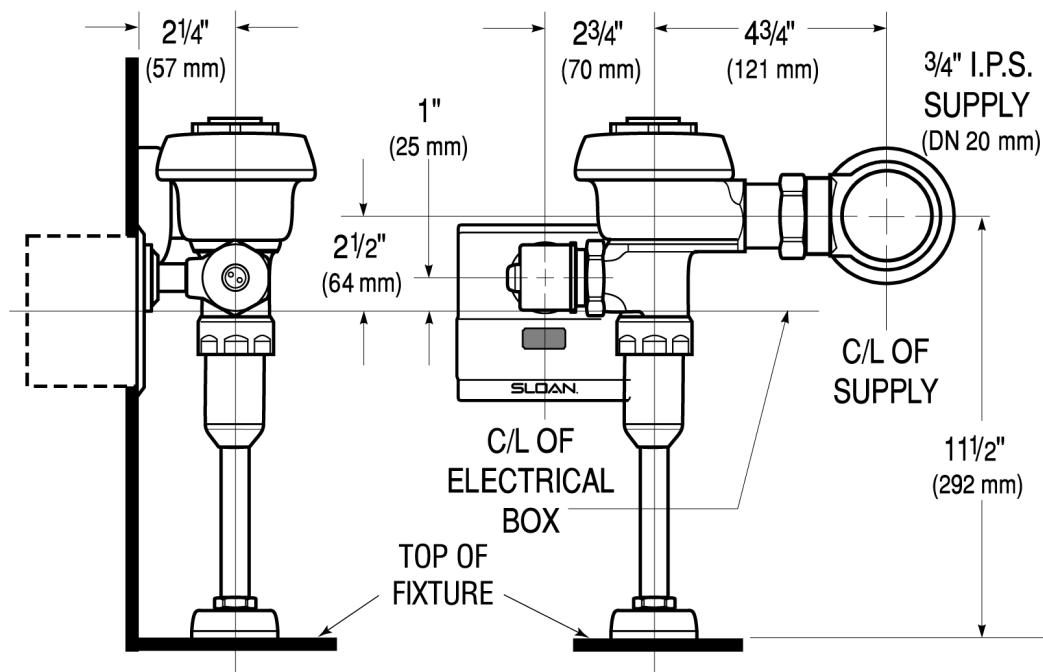
[Find a compatible urinal for this flushometer.](#)

[Find a compatible water closet for this flushometer.](#)

WaterSense compliant when used with a 0.125 gpf (0.5 Lpf) WaterSense fixture

**ROUGH-IN**

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