



## Royal® Sensor Flushometer

ROYAL 180 ESS-1.0-CP-L/OR-24V

### Product description

1.0 gpf, Polished Chrome Finish, Fixture Connection Top Spud, Single Flush, 3/4" Control Stop, Less Override, Hardwired, Sensor-Operated, 24V, Royal® Exposed Sensor Hardwired Urinal Flushometer.

### Compliances & Certifications



(ADA Compliant, BAA Compliant, cUPC Certified, IAPMO, UL Certified, USA)

Code 3452473

### Finish

 Polished Chrome (CP)

### Downloads

- [Royal ESS Concealed and Exposed Installation Instructions.pdf](#)
- [Royal ESS TMO 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](#)

## Details

- Flush Volume: 1.0 gpf (3.8 lpf)
- Finish: Polished Chrome (CP)
- Power Type: Hardwired (HW)
- Valve: Diaphragm
- Valve Body Material: Semi-red Brass
- Fixture Type: Urinal
- Fixture Connection: Top Spud
- Rough-in Dimension: 11.5" (292mm)
- Spud Coupling: 1.25" (32mm)
- Supply Pipe: 0.75" (19mm)
- Override: Less (L/OR)
- Control Stop: 3/4"
- Voltage: 24V (24V)

## Features

- Sensor-activated, hardwired urinal flushometer
- PERMEX® Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- 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: 8 seconds
- Control Circuit:
  - Solid State
  - 24 VAC Input
  - 24 VAC Output
- Flush Delay: 1 seconds
- Sensor Range: 15"-30" (381 - 762mm)
- Self-Adaptive Window: ±8"
- 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.

Looking for other variations of the ROYAL 180 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.

