

## CODE NUMBER

3453044

## DESCRIPTION

0.5 gpf, Rough Brass Finish, 1.25" Flush Connection, Fixture Connection Rear Spud, Single Flush, 2-10.75 L Dimension, Less Override, Hardwired, Sensor-Operated, 24V, Royal® Concealed Sensor Hardwired Urinal Flushometer.

## DETAILS

- Flush Volume: 0.5 gpf (1.9 Lpf)
- Finish: Rough Brass
- Power Type: Hardwired
- Valve: Diaphragm
- Valve Body Material: Semi-red Brass
- Fixture Type: Urinal
- Fixture Connection: Rear Spud
- Rough-In Dimension: 14 ½" (368mm)
- Spud Coupling: 1 ¼" (32mm)
- Supply Pipe: 1" (25mm)
- L Dimension: 2" - 10 ¾" (51-273mm)
- Override: Less (L/OR)
- Flush Connection: 1.25" (U)
- Voltage: 24V

## FEATURES

Quiet, Concealed, Diaphragm Type, Rough Brass Urinal

- Non-Hold-Open Integral Solenoid Operator, Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- OPTIMA® EL-1500 Self-Adaptive Infrared Sensor with Indicator Light
- Stop Seat and Vacuum Breaker molded from PERMEX® Rubber Compound for Chloramine Resistance
- High Back Pressure Vacuum Breaker Flush Connection and Spud Coupling for 1 1/4" Concealed Back Spud
- High Chloramine Resistant PERMEX® Synthetic Rubber Diaphragm with Linear Filtered Bypass and Vortex Cleansing Action™
- 1" I.P.S. Wheel Handle Bak-Chek® Angle Stop

## VIDEOS



ESS Flushometer



## COMPLIANCES & CERTIFICATIONS



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

## 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: Solid State/24 VAC Input/24 VAC Output
- Flush Delay: 1s
- Self-Adaptive Window: ±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 Concealed with Wall Box 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](#)

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- [Additional Downloads](#)

#### NOTES

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

Looking for other variations of the ROYAL 190 ESS product?  
[View the general spec sheet with all options.](#)

WaterSense compliant when used with a WaterSense compliant fixture

#### WARRANTY

[View Warranty Information](#)

#### ROUGH-IN

