



Royal® Sensor Flushometer

ROYAL 603 ESS-1.28-RB-24V

Product description

1.28 gpf, Rough Brass Finish, Fixture Connection Rear Spud, Single Flush, 1" Control Stop, Electrical Override, Hardwired, Sensor-Operated, 24V, Royal® Concealed Sensor Hardwired Water Closet Flushometer.

Compliances & Certifications



(BREEAM Water Credit, Green Globes Water, LEED Water, Satisfies LEED Credits, EPA WaterSense Listed)

Code 3018136

Finish



Rough Brass (RB)

Downloads

- [Concealed Flushometer Installation Instructions for Stainless Steel Fixtures.pdf](#)
- [Optima ESS Repair and Maintenance Guide.pdf](#)
- [Control Stop Repair and Maintenance Guide.pdf](#)
- [Additional Downloads](#)

Videos

- [ESS Flushometer](#)

Details

- Flush Volume: 1.28 gpf (4.8 lpf)
- Finish: Rough Brass (RB)
- Power Type: Hardwired (HW)
- Valve: Diaphragm
- Valve Body Material: Semi-red Brass
- Fixture Type: Water Closet
- Fixture Connection: Rear Spud
- Rough-in Dimension: 16" (406mm)
- Spud Coupling: 1.5" (38mm)
- Supply Pipe: 1" (25mm)
- Override: Electrical
- Control Stop: 1"
- Voltage: 24V (24V)

Features

- 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.

WaterSense compliant when used with a 1.28 gpf (4.8 lpf) WaterSense fixture.

Looking for other variations of the ROYAL 603 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.

