



Royal® Sensor Flushometer

ROYAL 152 ESS TMO SWB-1.28-BSS-TMO-SWB-HW-24V

Product description

1.28 gpf, Stainless Steel Finish, Fixture Connection Rear Spud, Single Flush, 2"-10.75" L Dimension, True Mechanical Override, Hardwired, Sensor-Operated, 24V, Small Wall Box Included Wall Box, Royal® Concealed Sensor Wall-Mounted Hardwired Water Closet Flushometer.

Compliances & Certifications



(ADA Compliant*, BAA Compliant, BABAA Compliant, BREEAM Water Credit, Green Globes Water, IAPMO, LEED Water, Satisfies LEED Credits, UL Certified (US), EPA WaterSense Listed)

Code 3451670

Finish



Downloads

- [Royal 152_195 ESS TMO Concealed SWB Installation Instructions.pdf](#)
- [Additional Downloads](#)

Videos

Details

- Flush Volume: 1.28 gpf (4.8 lpf)
- Finish: Stainless Steel (BSS)
- Power Type: Hardwired (HW)
- Valve: Diaphragm
- Valve Body Material: Semi-red Brass
- Fixture Type: Water Closet
- Closet Mounting: Wall-Mounted
- Fixture Connection: Rear Spud
- Rough-in Dimension: 14.5" (368mm)
- Spud Coupling: 1.5" (38mm)
- Supply Pipe: 1" (25mm)
- L Dimension: 2"-10.75" (51-273mm)
- Override: True Mechanical (TMO)
- Wall Box: Small Wall Box Included (SWB)
- Voltage: 24V (24V)

Features

- Flush volumes start as low as 1.1 gpf/4.2 Lpf
- High copper, low zinc brass castings for dezincification resistance
- 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:
 - 24 VAC Input
 - 24 VAC Output
 - Solid State
- 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.

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

Looking for other variations of the ROYAL 152 ESS TMO SWB product? [View the general spec sheet with all options.](#)

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

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

Rough-in and line drawing

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