



Royal® Sensor Flushometer

ROYAL 152 ESS TMO SBX-1.6-RB-TMO-24V

Product description

1.6 gpf, Dual-Filtered Bypass, Rough Brass Finish, 1.5" Flush Connection, Single Flush, 1" Inlet, 1" Control Stop, 2"-10.75" L Dimension, True Mechanical Override, Hardwired, Infrared, 11.5" Vacuum Breaker, 24V, Royal® Concealed Sensor Hardwired Water Closet Hydraulic Flushometer.

Compliances & Certifications



(ADA Compliant, ASSE 1001, ASSE 1001 Green, BAA Compliant, BREEAM Water Credit, cUPC Certified, cUPC Green Certified, IAPMO, UL Certified, USA, UPC Low Lead Certified)

Code 34516002

Finish



Rough Brass (RB)

Downloads

- [Royal 152_195 ESS TMO SBX Installation Instructions.pdf](#)
- [Control Stop Repair and Maintenance Guide.pdf](#)
- [Flush Connections Flanges Repair and Maintenance Guide.pdf](#)
- [Additional Downloads](#)

Videos

- [Sloan – Company Overview](#)

Details

- Flush Volume: 1.6 gpf (6.0 lpf)
- Finish: Rough Brass (RB)
- Power Type: Hardwired
- Valve: Diaphragm
- Bypass: Dual-Filtered Bypass
- Valve Body Material: Semi-red Brass
- Fixture Type: Water Closet
- L Dimension: 2"-10.75" (51-273mm)
- Override: True Mechanical (TMO)
- Control Stop: 1"
- Vacuum Breaker: 11.5"
- Flush Connection: 1.5" (38mm)
- Voltage: 24V (24V)

Features

- Flush volumes start as low as 1.28 gpf/4.8 Lpf
- Water conservation is aided by the ADA-compliant, non-hold-open handle, which prevents toilet from exceeding intended flush volume
- Flush accuracy is controlled by CID™ technology, also enhancing water efficiency
- Integrity of the product is maintained with the vandal-resistant stop cap
- 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: 16 seconds
- Control Circuit:
 - 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.

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

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

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

