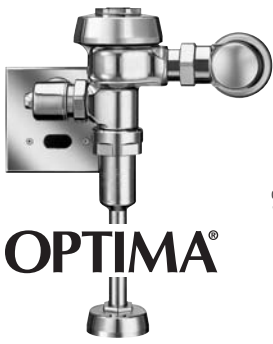


Optima® Flushometers

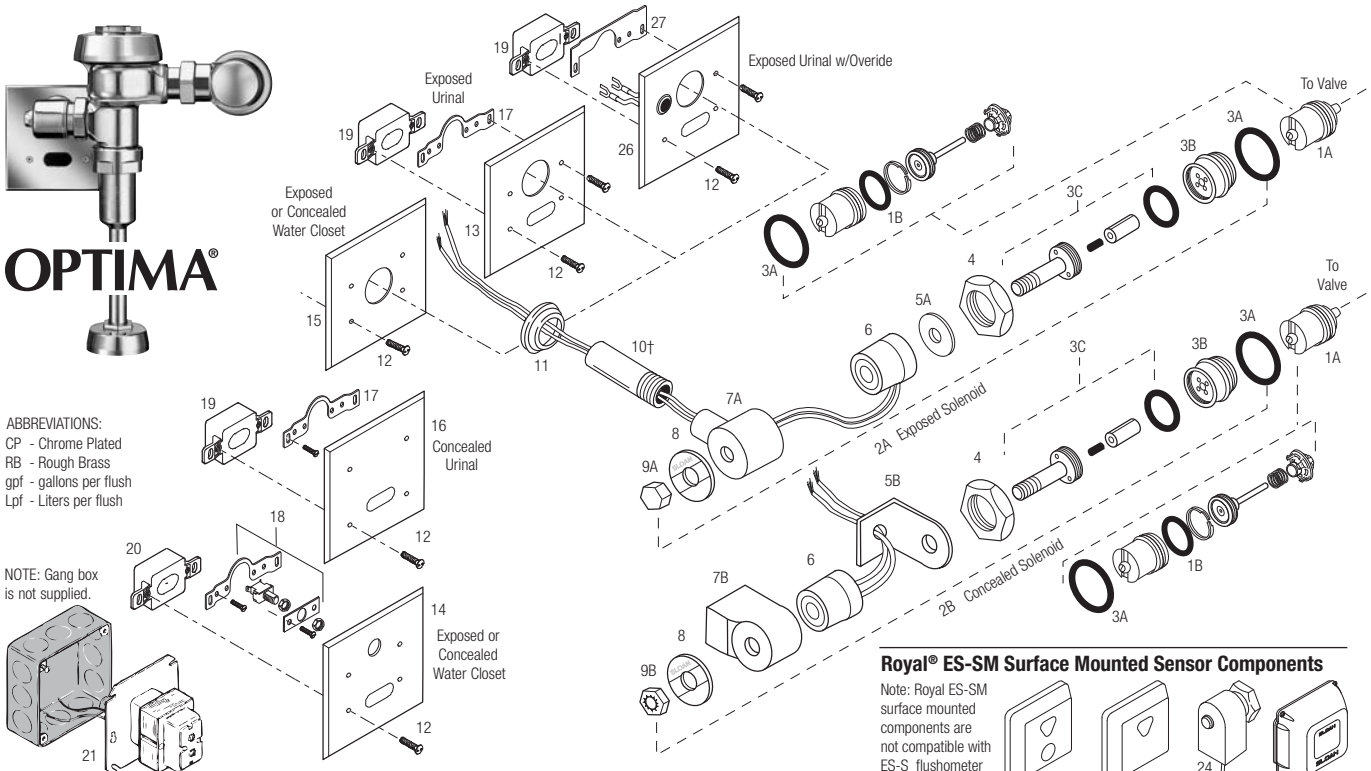
Old Royal® until 05/09, current Sloan/Regal®



OPTIMA®

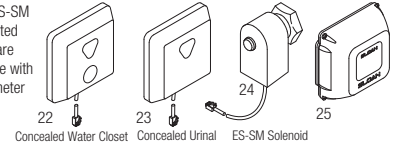
ABBREVIATIONS:
 CP - Chrome Plated
 RB - Rough Brass
 gpf - gallons per flush
 Lpf - Liters per flush

NOTE: Gang box is not supplied.



Royal® ES-SM Surface Mounted Sensor Components

Note: Royal ES-SM surface mounted components are not compatible with ES-S flushometer components.



SOLENOID/SENSOR PARTS AND ASSEMBLIES LIST

Item No.	Code No.	Part No.	Description
1A.	3305043	EL-128-A	Actuator Cartridge Assembly Repair Kit Includes Spring, Plunger Guide, Solenoid Valve Seat, Valve Piston Assembly, and O-Ring (also available for ES-SM flushometers)
1B.	0305135	EL-110	O-Ring
2A.	0305328	EL-124-1	120V only (no sensor)
	3305044	EL-1029-A	CP Cartridge/Solenoid Kit EL-124-1 (120V) and EL128-A
	0305329	EL-124-2	24 VAC Solenoid Assembly (exposed installation) Includes Handle Coupling, 24 VAC Coil, Face Plate for 24 VAC Solenoid, Solenoid Adapter, Solenoid Shaft Assembly, Nut for Solenoid, Solenoid Housing, Solenoid Flux Plate, and O-Ring
	3305045	EL-1028-A	CP Cartridge/Solenoid Kit EL-124-2 (24V) and EL128-A
2B.	0305330	EL-138-1	120V only (no sensor)
	0305331	EL-138-2	24 VAC Solenoid Assembly (concealed installation) Includes Handle Coupling, 24 VAC Coil, Face Plate for 24 VAC Solenoid, Solenoid Adapter, Solenoid Shaft Assembly, Nut for Solenoid, Solenoid Base Plate and Solenoid Cover Assembly
3A.	0337086	DO-22	O-Ring
3B.	0305132	EL-104	RB Adapter for Solenoid
3C.	0305165	EL-163-A	Solenoid Shaft Assembly Includes Gasket, Plunger, Plunger Spring, and Solenoid Shaft
4.	0301082	A-6	CP Handle Coupling (exposed installation)
5A.	0305166	EL-164	Solenoid Flux Plate (exposed installation) fine thread
5B.	—	EL-542	N/A Separately
6.	0305119	EL-165-1	120 V Coil
	0305118	EL-165-2	24 VAC Coil
7A.	0345120	EL-162-2	CP Solenoid Housing (exposed installation) fine thread
	0305164	EL-162-1	CP Solenoid Housing (120V) course thread also used on pre-2001 24 V
7B.	0305336	EL-541-A	Solenoid Cover Assembly (Includes Flux Plate)
8.	0305127	EL-102-2	Face Plate for 24 VAC Solenoid (exposed installation)

Item No.	Code No.	Part No.	Description
9A.	0305125	EL-101	CP Nut for Solenoid (exposed installation)
9B.	0305167	EL-166	Housing Nut for Solenoid (concealed installation)
10.	0306249	F-15	Tail †
	0305145	EL-123-A	Old Style ESS 24V course thread (120V also)
	0305337PK	EL-226	1-1/4" Extension for EL-123-A course thread
11.	0345150	EL-431-A	CP Flange Assembly (exposed installation)
	0305139	EL-176-A	Old Style ESS 24V course thread (120V also)
12.	0305152	EL-152	CP Screws (requires four screws per cover plate)
13.	0305151	EL-151	CP Cover Plate for Sensor and Solenoid Operator (Urinal only)
14.	0305219	EL-201	CP Cover Plate for Sensor and Override Button (Closet only)
15.	0318066	HY-66	CP Cover Plate for Solenoid Operator (Closet only)
16.	0305161	EL-161	CP Cover Plate for Sensor
17.	0305323	EL-168-A	Yoke Assembly (Urinal only)
18.	0305324	EL-141-A	Override Switch and Yoke Assembly (Closet only)
19.	3305620	EL-1500	Urinal Sensor Replacement Kit (Urinal only)
20.	3305621	EL-1500-L	Closet Sensor Replacement Kit (Closet only)
21.	0345154	EL-154	Transformer (120 VAC) (also available for ES-SM flushometers) 50 VA plate mount
	0345999	EL-342	Transformer (240 VAC) (also available for ES-SM flushometers) 50 VA plate mount
22.	3345047	EL-461	Surface Mounted Sensor and Override Button Assembly (closet only)
23.	3345048	EL-497	Surface Mounted Sensor Assembly (urinal only)
24.	3345048	EL-297	Solenoid Assembly
25.	3365003	ETF-492-A	Control Module
26.	0345266	EL-566-A	Exposed Plate with Override Button (Urinal only)
27.	0345267	EL-567-A	Yoke Assembly for EL-566-A
—	0305148	EL-227	Repair Tool Kit for EL-163-A Repair Kit
—	0345016	EL-387-A	Override Button Replacement for EL-566-A

† NOTE: For exposed & concealed solenoids manufactured before 2001 or not shown here, consult factory for individual part assembly.