

| Code Number | Product Number | Description | List Price | MAPP Price | Est. Wt. (lbs.) | UPC Code |
|-------------|----------------|-------------|------------|------------|-----------------|----------|
|-------------|----------------|-------------|------------|------------|-----------------|----------|

**Sensor-Activated Royal® Water Closet flushometers with True Mechanical Override**

24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500-L water closet sensor with True Mechanical Override button, chrome plated wall plate(s) with vandal resistant screws –for exposed flushometer for 1-1/2" top spud bowls.

|          |                            |                    |        |        |       |              |
|----------|----------------------------|--------------------|--------|--------|-------|--------------|
| 3450155  | ROYAL 110 ES-S TMO         | 3.5 gpf (13.2 Lpf) | 848.85 | 551.75 | 9.04  | 671254378537 |
| 3450065  | ROYAL 111 ES-S TMO         | 1.6 gpf (6.0 Lpf)  | 848.85 | 551.75 | 9.04  | 671254372870 |
| 3450055  | ROYAL 111-1.28 ES-S TMO    | 1.28 gpf (4.8 Lpf) | 848.85 | 551.75 | 9.04  | 671254378254 |
| 3450260  | ROYAL 113-1.28 ES-S TMO    | 1.28 gpf (4.8 Lpf) | 854.85 | 555.65 | 9.04  | 671254384569 |
| 3450265  | ROYAL 113-1.6 ES-S TMO     | 1.6 gpf (6.0 Lpf)  | 854.85 | 555.65 | 9.04  | 671254385450 |
| 3450312  | ROYAL 115-1.28 ES-S TMO    | 1.28 gpf (4.8 Lpf) | 867.15 | 563.65 | 9.04  | 671254398238 |
| 3450310  | ROYAL 115-1.6 ES-S TMO     | 1.6 gpf (6.0 Lpf)  | 867.15 | 563.65 | 9.04  | 671254378544 |
| 3450408  | ROYAL 116-1.28 ES-S TMO    | 1.28 gpf (4.8 Lpf) | 871.35 | 566.38 | 9.04  | 671254397231 |
| 3450406  | ROYAL 116-1.6 ES-S TMO     | 1.6 gpf (6.0 Lpf)  | 871.35 | 566.38 | 9.04  | 671254378513 |
| 34516001 | ROYAL 152-1.28 ESS TMO SBX | 1.28 gpf (4.8 Lpf) | 778.05 | 505.73 | 10.20 | 671254491908 |
| 34516002 | ROYAL 152-1.6 ESS TMO SBX  | 1.6 gpf (6.0 Lpf)  | 778.05 | 505.73 | 10.20 | —            |
| 34516003 | ROYAL 152-1.1 ESS TMO SBX  | 1.1 gpf (4.2 Lpf)  | 778.05 | 505.73 | 10.20 | —            |

**Sensor-Activated Royal® Water Closet flushometers**

24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500-L water closet sensor with Override button, chrome plated wall plate(s) with vandal resistant screws – for exposed flushometer for 1-1/2" top spud bowls.

|         |                     |                    |        |        |       |              |
|---------|---------------------|--------------------|--------|--------|-------|--------------|
| 3450147 | ROYAL 110 ES-S      | 3.5 gpf (13.2 Lpf) | 800.25 | 520.16 | 8.60  | 671254138209 |
| 3450047 | ROYAL 111 ES-S      | 1.6 gpf (6.0 Lpf)  | 800.25 | 520.16 | 8.70  | 671254138193 |
| 3450049 | ROYAL 111-1.28 ES-S | 1.28 gpf (4.8 Lpf) | 800.25 | 520.16 | 9.04  | 671254340251 |
| 3450247 | ROYAL 113 ES-S      | 3.5 gpf (13.2 Lpf) | 939.40 | 610.61 | 9.60  | 671254138216 |
| 3450255 | ROYAL 113-1.28 ES-S | 1.28 gpf (4.8 Lpf) | 806.25 | 524.06 | 9.62  | 671254384279 |
| 3450249 | ROYAL 113-1.6 ES-S  | 1.6 gpf (6.0 Lpf)  | 806.25 | 524.06 | 9.60  | 671254138223 |
| 3450347 | ROYAL 115 ES-S      | 3.5 gpf (13.2 Lpf) | 953.25 | 619.61 | 9.70  | 671254138230 |
| 3450351 | ROYAL 115-1.28 ES-S | 1.28 gpf (4.8 Lpf) | 818.20 | 531.83 | 9.85  | 671254432437 |
| 3450349 | ROYAL 115-1.6 ES-S  | 1.6 gpf (6.0 Lpf)  | 953.25 | 619.61 | 9.60  | 671254139114 |
| 3450447 | ROYAL 116 ES-S      | 3.5 gpf (13.2 Lpf) | 822.75 | 534.79 | 10.00 | 671254139121 |
| 3450449 | ROYAL 116-1.6 ES-S  | 1.6 gpf (6.0 Lpf)  | 958.50 | 623.03 | 10.00 | 671254139138 |

24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500-L water closet sensor with Override button, chrome plated wall plate(s) with vandal resistant screws – for concealed flushometer for 1-1/2" exposed back spud bowls.

|         |                     |   |        |        |       |              |
|---------|---------------------|---|--------|--------|-------|--------------|
| 3451100 | ROYAL 140 ES-S      | 2-3/4" – 10-3/4" LDIM 3.5 gpf (13.2 Lpf)  | 791.30 | 514.35 | 12.00 | 671254138810 |
| 3451116 | ROYAL 140-1.28 ES-S | 2-3/4" – 10-3/4" LDIM 1.28 gpf (4.8 Lpf)  | 791.30 | 514.35 | 11.50 | 671254390423 |
| 3451101 | ROYAL 140-1.6 ES-S  | 2-3/4" – 10-3/4" LDIM 1.6 gpf (6.0 Lpf)   | 791.30 | 514.35 | 12.00 | 671254138827 |
| 3451110 | ROYAL 140 ES-S      | 11-3/4" – 12-3/4" LDIM 3.5 gpf (13.2 Lpf) | 921.85 | 599.20 | 12.00 | 671254138858 |
| 3451111 | ROYAL 140-1.6 ES-S  | 11-3/4" – 12-3/4" LDIM 1.6 gpf (6.0 Lpf)  | 791.30 | 514.35 | 12.00 | 671254138865 |

For "L" Dimension longer than 12-3/4", add 5.30 per inch.

24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500-L water closet sensor with Override button, chrome plated wall plate(s) with vandal resistant screws – for concealed flushometer for 1-1/2" concealed back spud bowls.

|         |                     |  |        |        |       |              |
|---------|---------------------|--|--------|--------|-------|--------------|
| 3451600 | ROYAL 152 ES-S      | 2-3/4" – 10-3/4" LDIM 3.5 gpf (13.2 Lpf) | 729.35 | 474.08 | 11.50 | 671254138735 |
| 3451648 | ROYAL 152-1.28 ES-S | 2-3/4" – 10-3/4" LDIM 1.28 gpf (4.8 Lpf) | 729.35 | 474.08 | 11.50 | 671254343351 |
| 3451601 | ROYAL 152-1.6 ES-S  | 2-3/4" – 10-3/4" LDIM 1.6 gpf (6.0 Lpf)  | 729.35 | 474.08 | 11.50 | 671254138742 |

For "L" Dimension longer than 12-3/4", add 5.30 per inch.



ROYAL 111 ESS TMO



ROYAL 111 ES-S



ROYAL 140 ES-S

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| 24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500-L water closet sensor with Override button, chrome plated wall plate(s) with vandal resistant screws – for concealed flushometer for 1-1/2" exposed top spud bowls. |                     |   |            |            |                 |              |
| 3451610   | ROYAL 152 ES-S      | 11-3/4" – 12-3/4" LDIM 3.5 gpf (13.2 Lpf) | 729.35     | 474.08     | 11.50           | 671254138773 |
| 3451676   | ROYAL 152-1.28 ES-S | 11-3/4" – 12-3/4" LDIM 1.28 gpf (4.8 Lpf) | 729.35     | 474.08     | 9.80            | 671254386549 |
| 3451611   | ROYAL 152-1.6 ES-S  | 11-3/4" – 12-3/4" LDIM 1.6 gpf (6.0 Lpf)  | 729.35     | 474.08     | 11.50           | 671254138780 |
| 3451620   | ROYAL 153 ES-S      | 2-3/4" – 10-3/4" LDIM 3.5 gpf (13.2 Lpf)  | 983.05     | 638.98     | 12.00           | 671254138698 |
| 3451659   | ROYAL 153-1.28 ES-S | 2-3/4" – 10-3/4" LDIM 1.28 gpf (4.8 Lpf)  | 843.75     | 548.44     | 12.00           | 671254386129 |
| 3451621   | ROYAL 153-1.6 ES-S  | 2-3/4" – 10-3/4" LDIM 1.6 gpf (6.0 Lpf)   | 843.75     | 548.44     | 12.00           | 671254138704 |
| 3451630   | ROYAL 153 ES-S      | 11-3/4" – 12-3/4" LDIM 3.5 gpf (13.2 Lpf) | 983.05     | 638.98     | 12.00           | 671254138896 |
| 3451631   | ROYAL 153-1.6 ES-S  | 11-3/4" – 12-3/4" LDIM 1.6 gpf (6.0 Lpf)  | 983.05     | 638.98     | 12.00           | 671254138902 |

For "L" Dimension longer than 12-3/4", add 5.30 per inch.

**Sensor-Activated Royal® Water Closet flushometer with Wall Box**

24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500-L water closet sensor with Override button, 13" x 17" wall plate(s) with stainless steel access plate and vandal resistant screws – for concealed flushometer with wall box for 1-1/2" exposed back spud bowls.

|         |                        |   |          |        |       |              |
|---------|------------------------|---|----------|--------|-------|--------------|
| 3451102 | ROYAL 140-WB ES-S      | 2-3/4" – 10-3/4" LDIM 3.5 gpf (13.2 Lpf)  | 1,368.20 | 889.33 | 21.50 | 671254138834 |
| 3451115 | ROYAL 140-1.28-WB ES-S | 2-3/4" – 10-3/4" LDIM 1.28 gpf (4.8 Lpf)  | 1,174.35 | 763.33 | 21.79 | 671254370906 |
| 3451103 | ROYAL 140-1.6-WB ES-S  | 2-3/4" – 10-3/4" LDIM 1.6 gpf (6.0 Lpf)   | 1,174.35 | 763.33 | 21.50 | 671254138841 |
| 3451112 | ROYAL 140-WB ES-S      | 11-3/4" – 12-3/4" LDIM 3.5 gpf (13.2 Lpf) | 1,368.20 | 889.33 | 21.50 | 671254138872 |
| 3451113 | ROYAL 140-1.6-WB ES-S  | 11-3/4" – 12-3/4" LDIM 1.6 gpf (6.0 Lpf)  | 1,174.35 | 763.33 | 21.50 | 671254138889 |

For "L" Dimension longer than 12-3/4", add 5.30 per inch.

24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500-L water closet sensor with Override button, 13" x 17" wall plate(s) with stainless steel access plate and vandal resistant screws – for concealed flushometer with wall box for 1-1/2" concealed back spud bowls.

|         |                        |   |          |        |       |              |
|---------|------------------------|---|----------|--------|-------|--------------|
| 3451602 | ROYAL 152-WB ES-S      | 2-3/4" – 10-3/4" LDIM 3.5 gpf (13.2 Lpf)  | 1,112.55 | 723.16 | 21.00 | 671254138759 |
| 3451649 | ROYAL 152-1.28-WB ES-S | 2-3/4" – 10-3/4" LDIM 1.28 gpf (4.8 Lpf)  | 1,112.55 | 723.16 | 21.45 | 671254345652 |
| 3451603 | ROYAL 152-1.6-WB ES-S  | 2-3/4" – 10-3/4" LDIM 1.6 gpf (6.0 Lpf)   | 1,112.55 | 723.16 | 21.00 | 671254138766 |
| 3451612 | ROYAL 152-WB ES-S      | 11-3/4" – 12-3/4" LDIM 3.5 gpf (13.2 Lpf) | 1,112.55 | 723.16 | 21.00 | 671254138797 |
| 3451613 | ROYAL 152-1.6-WB ES-S  | 11-3/4" – 12-3/4" LDIM 1.6 gpf (6.0 Lpf)  | 1,296.10 | 842.47 | 21.00 | 671254138803 |

For "L" Dimension longer than 12-3/4", add 5.30 per inch.

24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500-L water closet sensor with Override button, 13" x 17" wall plate(s) with stainless steel access plate and vandal resistant screws – for concealed flushometer with wall box for 1-1/2" exposed top spud bowls.

|         |                        |   |          |        |       |              |
|---------|------------------------|---|----------|--------|-------|--------------|
| 3451622 | ROYAL 153-WB ES-S      | 2-3/4" – 10-3/4" LDIM 3.5 gpf (13.2 Lpf)  | 1,226.85 | 797.45 | 21.50 | 671254138711 |
| 3451654 | ROYAL 153-1.28-WB ES-S | 2-3/4" – 10-3/4" LDIM 1.28 gpf (4.8 Lpf)  | 1,226.85 | 797.45 | 22.10 | 671254354562 |
| 3451623 | ROYAL 153-1.6-WB ES-S  | 2-3/4" – 10-3/4" LDIM 1.6 gpf (6.0 Lpf)   | 1,226.85 | 797.45 | 21.50 | 671254138728 |
| 3451632 | ROYAL 153-WB ES-S      | 11-3/4" – 12-3/4" LDIM 3.5 gpf (13.2 Lpf) | 1,429.40 | 929.11 | 21.50 | 671254138919 |
| 3451633 | ROYAL 153-1.6-WB ES-S  | 11-3/4" – 12-3/4" LDIM 1.6 gpf (6.0 Lpf)  | 1,429.40 | 929.11 | 21.50 | 671254138926 |

For "L" Dimension longer than 12-3/4", add 5.30 per inch.



ROYAL 152 ES-S



ROYAL 153 ES-S



ROYAL 152-WB ES-S

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**Sensor-Activated Royal® Water Closet flushometer with Small Wall Box**

24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500-L water closet sensor with piezo-technology Override button, 13" x 13" stainless steel access plate with vandal resistant screws – for concealed flushometer with Small Wall Box for 1-1/2" concealed back spud bowls.

|         |                             |  |          |        |       |              |
|---------|-----------------------------|--|----------|--------|-------|--------------|
| 3451653 | ROYAL 152-1.6 ES-S SWB      | 2-3/4" – 10-3/4" LDIM 1.6 gpf (6.0 Lpf)  | 1,112.55 | 723.16 | 18.00 | 671254352988 |
| 3451658 | ROYAL 152-1.28 ES-S SWB     | 2-3/4" – 10-3/4" LDIM 1.28 gpf (4.8 Lpf) | 1,112.55 | 723.16 | 18.00 | 671254376748 |
| 3451682 | ROYAL 152 ES-S TMO SWB      | 2-3/4" – 10-3/4" LDIM 3.5 gpf (13.2 Lpf) | 1,161.20 | 754.78 | 19.00 | 671254396197 |
| 3771621 | ROYAL 152-1.1 ESS TMO SWB   | 2-3/4" – 10-3/4" LDIM 1.1 gpf (4.2 Lpf)  | 1,192.75 | 775.29 | 19.00 | 671254468863 |
| 3451670 | ROYAL 152-1.28 ES-S TMO SWB | 2-3/4" – 10-3/4" LDIM 1.28 gpf (4.8 Lpf) | 1,161.20 | 754.78 | 19.00 | 671254382183 |
| 3451671 | ROYAL 152-1.6 ES-S TMO SWB  | 2-3/4" – 10-3/4" LDIM 1.6 gpf (6.0 Lpf)  | 1,161.20 | 754.78 | 17.50 | 671254382060 |

**Sensor-Activated Royal® Water Closet flushometer with Surface Mount Sensor**

24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Surface Mount water closet sensor with chrome plated die cast housing, piezo-technology Override button and RJ-11 sensor and solenoid connections – for concealed flushometer for 1-1/2" concealed back spud bowls.

|         |                      |  |          |        |       |              |
|---------|----------------------|--|----------|--------|-------|--------------|
| 3451636 | ROYAL 152 ES-SM      | 2-3/4"-10-3/4" LDIM 3.5 gpf (13.2 Lpf)   | 1,448.75 | 941.69 | 11.00 | 671254270473 |
| 3451667 | ROYAL 152-1.28 ES-SM | 2-3/4" – 10-3/4" LDIM 1.28 gpf (4.8 Lpf) | 1,448.75 | 941.69 | 10.97 | 671254389519 |
| 3451645 | ROYAL 152-1.6 ES-SM  | 2-3/4"-10-3/4" LDIM 1.6 gpf (6.0 Lpf)    | 1,243.50 | 808.28 | 11.00 | 671254336179 |
| 3451500 | ROYAL 150 ES-SM      | 2-3/4" – 10-3/4" LDIM 3.5 gpf (13.2 Lpf) | 1,392.40 | 905.06 | 11.00 | 671254265639 |
| 3451501 | ROYAL 150-1.6 ES-SM  | 2-3/4" – 10-3/4" LDIM 1.6 gpf (6.0 Lpf)  | 1,392.40 | 905.06 | 11.00 | 671254265646 |

**Sloan ECOS® Hardwire Dual-Flush Water Closet flushometers**

6 VAC hardwire system sensor-activated control module with Smart Sense Technology™ and flex-tube diaphragm flushometer with angle stop, vacuum breaker flush connection, sweat solder kit with cover tube and cast set screw wall flange – supplied less handle opening and with metal cover – for exposed flushometer for 1-1/2" top spud bowls.

|         |                     |                           |        |        |      |              |
|---------|---------------------|---------------------------|--------|--------|------|--------------|
| 3370420 | ECOS 111-1.6/1.1 HW | 1.6/1.1 gpf (6.0/4.2 Lpf) | 809.65 | 526.27 | 8.66 | 671254376021 |
| 3370424 | ECOS 115-1.6/1.1 HW | 1.6/1.1 gpf (6.0/4.2 Lpf) | 826.40 | 537.16 | 8.66 | 671254389724 |

**Sensor-Activated Royal® Urinal flushometers with True Mechanical Override**

24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500 urinal sensor with True Mechanical Override and chrome plated wall plate(s) with vandal resistant screws for exposed flushometer for top spud urinals.

|          |                             |                     |        |        |      |              |
|----------|-----------------------------|---------------------|--------|--------|------|--------------|
| 3452643  | ROYAL 186-0.125 ES-S TMO    | 0.125 gpf (0.5 Lpf) | 828.25 | 538.36 | 8.54 | 671254380189 |
| 3452641  | ROYAL 186-0.25 ES-S TMO     | 0.25 gpf (1.0 Lpf)  | 828.25 | 538.36 | 8.54 | 671254378247 |
| 3452642  | ROYAL 186-0.5 ES-S TMO      | 0.5 gpf (1.9 Lpf)   | 828.25 | 538.36 | 8.54 | 671254380165 |
| 3452640  | ROYAL 186-1 ES-S TMO        | 1.0 gpf (3.8 Lpf)   | 828.25 | 538.36 | 8.54 | 671254374102 |
| 3452430  | ROYAL 180-1 ES-S TMO        | 1.0 gpf (3.8 Lpf)   | 828.25 | 538.36 | 8.54 | 671254383692 |
| 3452435  | ROYAL 180-1.5 ES-S TMO      | 1.5 gpf (5.7 Lpf)   | 828.25 | 538.36 | 8.54 | 671254382718 |
| 34532001 | ROYAL 195-1 ESS TMO SBX     | 1.0 gpf (3.8 Lpf)   | 889.25 | 578.01 | 9.60 | 671254491915 |
| 34532002 | ROYAL 195-0.5 ESS TMO SBX   | 0.5 gpf (1.9 Lpf)   | 889.25 | 578.01 | 9.60 | —            |
| 34532003 | ROYAL 195-0.25 ESS TMO SBX  | 0.25 gpf (1.0 Lpf)  | 889.25 | 578.01 | 9.60 | 671254491922 |
| 34532004 | ROYAL 195-0.125 ESS TMO SBX | 0.125 gpf (0.5 Lpf) | 889.25 | 578.01 | 9.60 | 671254491939 |

**Sensor-Activated Royal® Urinal flushometers**

24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500 urinal sensor with chrome plated wall plate(s) with vandal resistant screws – for exposed flushometer for 1-1/4" top spud urinals.

|         |                    |                    |        |        |       |              |
|---------|--------------------|--------------------|--------|--------|-------|--------------|
| 3452447 | ROYAL 180 ES-S     | 3.5 gpf (13.2 Lpf) | 779.55 | 506.71 | 10.50 | 671254139145 |
| 3452449 | ROYAL 180-1.5 ES-S | 1.5 gpf (5.7 Lpf)  | 779.55 | 506.71 | 10.50 | 671254139152 |
| 3452473 | ROYAL 180-1 ES-S   | 1.0 gpf (3.8 Lpf)  | 779.55 | 506.71 | 10.50 | 671254139169 |



ROYAL 152-SWB ES-S



ROYAL 150 ES-SM



ROYAL 152 ES-SM

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|--|----------------------|---------------------|------------|------------|-----------------|--------------|
| 24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500 urinal sensor with chrome plated wall plate(s) with vandal resistant screws – for exposed flushometer for 3/4" top spud urinals. |                      |                     |            |            |                 |              |
| 3452630  | ROYAL 186-0.125 ES-S | 0.125 gpf (0.5 Lpf) | 779.55     | 506.71     | 10.50           | 671254349674 |
| 3452625  | ROYAL 186-0.25 ES-S  | 0.25 gpf (1.0 Lpf)  | 779.55     | 506.71     | 10.50           | 671254346505 |
| 3452674  | ROYAL 186-0.5 ES-S   | 0.5 gpf (1.9 Lpf)   | 779.55     | 506.71     | 10.50           | 671254139190 |
| 3452673  | ROYAL 186-1 ES-S     | 1.0 gpf (3.8 Lpf)   | 779.55     | 506.71     | 10.50           | 671254139183 |
| 3452647  | ROYAL 186 ES-S       | 1.5 gpf (5.7 Lpf)   | 779.55     | 506.71     | 10.50           | 671254139176 |

|   |                    |   |        |        |       |              |
|---|--------------------|---|--------|--------|-------|--------------|
| 24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500 urinal sensor with chrome plated wall plate(s) with vandal resistant screws for concealed flushometer for 1-1/4" concealed back spud urinals. |                    |   |        |        |       |              |
| 3453000   | ROYAL 190 ES-S     | 2-3/4" – 10-3/4" LDIM 3.5 gpf (13.2 Lpf)  | 699.70 | 454.81 | 11.00 | 671254138575 |
| 3453001   | ROYAL 190-1.5 ES-S | 2-3/4" – 10-3/4" LDIM 1.5 gpf (5.7 Lpf)   | 699.70 | 454.81 | 11.00 | 671254138582 |
| 3453002   | ROYAL 190-1 ES-S   | 2-3/4" – 10-3/4" LDIM 1.0 gpf (3.8 Lpf)   | 699.70 | 454.81 | 11.00 | 671254138599 |
| 3453010   | ROYAL 190 ES-S     | 11-3/4" – 12-3/4" LDIM 3.5 gpf (13.2 Lpf) | 815.20 | 529.88 | 11.00 | 671254138636 |
| 3453011   | ROYAL 190-1.5 ES-S | 11-3/4" – 12-3/4" LDIM 1.5 gpf (5.7 Lpf)  | 815.20 | 529.88 | 11.00 | 671254138643 |

|   |                    |   |        |        |       |              |
|---|--------------------|---|--------|--------|-------|--------------|
| 24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500 urinal sensor with Override button – for concealed flushometer for 1-1/4" exposed top spud urinals. |                    |   |        |        |       |              |
| 3453020   | ROYAL 192 ES-S     | 2-3/4" – 10-3/4" LDIM 3.5 gpf (13.2 Lpf)  | 983.55 | 639.31 | 12.00 | 671254138513 |
| 3453021   | ROYAL 192-1.5 ES-S | 2-3/4" – 10-3/4" LDIM 1.5 gpf (5.7 Lpf)   | 844.15 | 548.70 | 12.00 | 671254138520 |
| 3453022   | ROYAL 192-1 ES-S   | 2-3/4" – 10-3/4" LDIM 1.0 gpf (3.8 Lpf)   | 983.55 | 639.31 | 12.00 | 671254138537 |
| 3453030   | ROYAL 192 ES-S     | 11-3/4" – 12-3/4" LDIM 3.5 gpf (13.2 Lpf) | 983.55 | 639.31 | 12.00 | 671254138933 |
| 3453031   | ROYAL 192-1.5 ES-S | 11-3/4" – 12-3/4" LDIM 1.5 gpf (5.7 Lpf)  | 983.55 | 639.31 | 12.00 | 671254138940 |
| 3453032   | ROYAL 192-1 ES-S   | 11-3/4" – 12-3/4" LDIM 1.0 gpf (3.8 Lpf)  | 983.55 | 639.31 | 12.00 | 671254138957 |

|  |                      |   |        |        |       |              |
|--|----------------------|---|--------|--------|-------|--------------|
| 24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500 urinal sensor with Override button – for concealed flushometer for 3/4" concealed back spud urinals. |                      |   |        |        |       |              |
| 3453200  | ROYAL 195 ES-S       | 2-3/4" – 10-3/4" LDIM 1.5 gpf (5.7 Lpf)   | 699.70 | 454.81 | 11.00 | 671254138391 |
| 3453201  | ROYAL 195-1 ES-S     | 2-3/4" – 10-3/4" LDIM 1.0 gpf (3.8 Lpf)   | 699.70 | 454.81 | 11.00 | 671254138407 |
| 3453202  | ROYAL 195-0.5 ES-S   | 2-3/4" – 10-3/4" LDIM 0.5 gpf (1.9 Lpf)   | 699.70 | 454.81 | 11.00 | 671254138414 |
| 3453266  | ROYAL 195-0.25 ES-S  | 2-3/4" – 10-3/4" LDIM 0.25 gpf (1.0 Lpf)  | 699.70 | 454.81 | 8.90  | 671254373617 |
| 3453265  | ROYAL 195-0.125 ES-S | 2-3/4" – 10-3/4" LDIM 0.125 gpf (0.5 Lpf) | 699.70 | 454.81 | 8.90  | 671254373594 |
| 3453210  | ROYAL 195 ES-S       | 11-3/4" – 12-3/4" LDIM 1.5 gpf (5.7 Lpf)  | 815.20 | 529.88 | 11.00 | 671254138452 |
| 3453211  | ROYAL 195-1 ES-S     | 11-3/4" – 12-3/4" LDIM 1.0 gpf (3.8 Lpf)  | 815.20 | 529.88 | 11.00 | 671254138469 |
| 3453212  | ROYAL 195-0.5 ES-S   | 11-3/4" – 12-3/4" LDIM 0.5 gpf (1.9 Lpf)  | 699.70 | 454.81 | 11.00 | 671254138476 |

|   |                      |   |        |        |       |              |
|---|----------------------|---|--------|--------|-------|--------------|
| 24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500 urinal sensor with Override button – for concealed flushometer for 3/4" exposed top spud urinals. |                      |   |        |        |       |              |
| 3453221   | ROYAL 197-1 ES-S     | 2-3/4" – 10-3/4" LDIM 1.0 gpf (3.8 Lpf)   | 983.55 | 639.31 | 12.00 | 671254139008 |
| 3453222   | ROYAL 197-0.5 ES-S   | 2-3/4" – 10-3/4" LDIM 0.5 gpf (1.9 Lpf)   | 844.15 | 548.70 | 12.00 | 671254139015 |
| 3453292   | ROYAL 197-0.125 ES-S | 2-3/4" – 10-3/4" LDIM 0.125 gpf (0.5 Lpf) | 844.15 | 548.70 | 12.00 | 671254487116 |
| 3453220   | ROYAL 197 ES-S       | 2-3/4" – 10-3/4" LDIM 1.5 gpf (5.7 Lpf)   | 983.55 | 639.31 | 12.00 | 671254138995 |
| 3453230   | ROYAL 197 ES-S       | 11-3/4" – 12-3/4" LDIM 1.5 gpf (5.7 Lpf)  | 983.55 | 639.31 | 12.00 | 671254139053 |
| 3453231   | ROYAL 197-1 ES-S     | 11-3/4" – 12-3/4" LDIM 1.0 gpf (3.8 Lpf)  | 983.55 | 639.31 | 12.00 | 671254139060 |
| 3453232   | ROYAL 197-0.5 ES-S   | 11-3/4" – 12-3/4" LDIM 0.5 gpf (1.9 Lpf)  | 983.55 | 639.31 | 12.00 | 671254139077 |

For "L" Dimension longer than 12-3/4", add 5.30 per inch.



ROYAL 180 ES-S



ROYAL 186 ES-S



ROYAL 190 ES-S



ROYAL 192 ES-S

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| Code Number | Product Number | Description | List Price | MAPP Price | Est. Wt. (lbs.) | UPC Code |
|-------------|----------------|-------------|------------|------------|-----------------|----------|
|-------------|----------------|-------------|------------|------------|-----------------|----------|

**Sensor-Activated Royal® Urinal flushometers with Wall Box**

24 VAC hardwire system. Includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum Breaker Flush connection. Adaptive Optima® EL-1500 urinal sensor with 13" x 17" wall plate(s) with stainless steel access plate and vandal resistant Screws – for concealed flushometer with Wall Box for 1-1/4" concealed back spud urinals.

|         |                       |   |          |        |       |              |
|---------|-----------------------|---|----------|--------|-------|--------------|
| 3453003 | ROYAL 190-WB ES-S     | 2-3/4" – 10-3/4" LDIM 3.5 gpf (13.2 Lpf)  | 1,261.60 | 820.04 | 20.50 | 671254138605 |
| 3453004 | ROYAL 190-1.5-WB ES-S | 2-3/4" – 10-3/4" LDIM 1.5 gpf (5.7 Lpf)   | 1,082.80 | 703.82 | 20.50 | 671254138612 |
| 3453005 | ROYAL 190-1-WB ES-S   | 2-3/4" – 10-3/4" LDIM 1.0 gpf (3.8 Lpf)   | 1,261.60 | 820.04 | 20.50 | 671254138629 |
| 3453013 | ROYAL 190-WB ES-S     | 11-3/4" – 12-3/4" LDIM 3.5 gpf (13.2 Lpf) | 1,261.60 | 820.04 | 20.50 | 671254138667 |
| 3453014 | ROYAL 190-1.5-WB ES-S | 11-3/4" – 12-3/4" LDIM 1.5 gpf (5.7 Lpf)  | 1,261.60 | 820.04 | 20.50 | 671254138674 |
| 3453015 | ROYAL 190-1-WB ES-S   | 11-3/4" – 12-3/4" LDIM 1.0 gpf (3.8 Lpf)  | 1,082.80 | 703.82 | 20.50 | 671254138681 |

24 VAC hardwire system, includes: solenoid operated dual-filtered by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500 urinal sensor with 13" x 17" wall plate(s) with stainless steel access plate and vandal resistant screws – for concealed flushometer with Wall Box for 1-1/4" exposed top spud urinals.

|         |                       |   |          |        |       |              |
|---------|-----------------------|---|----------|--------|-------|--------------|
| 3453023 | ROYAL 192-WB ES-S     | 2-3/4" – 10-3/4" LDIM 3.5 gpf (13.2 Lpf)  | 1,429.90 | 929.44 | 21.50 | 671254138544 |
| 3453024 | ROYAL 192-1.5-WB ES-S | 2-3/4" – 10-3/4" LDIM 1.5 gpf (5.7 Lpf)   | 1,429.90 | 929.44 | 21.50 | 671254138551 |
| 3453025 | ROYAL 192-1-WB ES-S   | 2-3/4" – 10-3/4" LDIM 1.0 gpf (3.8 Lpf)   | 1,227.30 | 797.75 | 21.50 | 671254138568 |
| 3453033 | ROYAL 192-WB ES-S     | 11-3/4" – 12-3/4" LDIM 3.5 gpf (13.2 Lpf) | 1,429.90 | 929.44 | 21.50 | 671254138964 |
| 3453034 | ROYAL 192-1.5-WB ES-S | 11-3/4" – 12-3/4" LDIM 1.5 gpf (5.7 Lpf)  | 1,429.90 | 929.44 | 21.50 | 671254138971 |
| 3453035 | ROYAL 192-1-WB ES-S   | 11-3/4" – 12-3/4" LDIM 1.0 gpf (3.8 Lpf)  | 1,429.90 | 929.44 | 21.50 | 671254138988 |

24 VAC hardwire system, includes: solenoid operated dual-filtered by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500 urinal sensor with 13" x 17" wall plate(s) with stainless steel access plate and vandal resistant screws – for concealed flushometer with Wall Box for 3/4" concealed back spud urinals.

|         |                         |   |          |        |       |              |
|---------|-------------------------|---|----------|--------|-------|--------------|
| 3453203 | ROYAL 195-WB ES-S       | 2-3/4" – 10-3/4" LDIM 1.5 gpf (5.7 Lpf)   | 1,261.60 | 820.04 | 20.50 | 671254138421 |
| 3453204 | ROYAL 195-1-WB ES-S     | 2-3/4" – 10-3/4" LDIM 1.0 gpf (3.8 Lpf)   | 1,082.80 | 703.82 | 20.50 | 671254138438 |
| 3453205 | ROYAL 195-0.5-WB ES-S   | 2-3/4" – 10-3/4" LDIM 0.5 gpf (1.9 Lpf)   | 1,082.80 | 703.82 | 20.50 | 671254138445 |
| 3453290 | ROYAL 195-0.125-WB ES-S | 2-3/4" – 10-3/4" LDIM 0.125 gpf (0.5 Lpf) | 1,082.80 | 703.82 | 20.46 | 671254382619 |
| 3453213 | ROYAL 195-WB ES-S       | 11-3/4" – 12-3/4" LDIM 1.5 gpf (5.7 Lpf)  | 1,261.60 | 820.04 | 20.50 | 671254138483 |
| 3453214 | ROYAL 195-1-WB ES-S     | 11-3/4" – 12-3/4" LDIM 1.0 gpf (3.8 Lpf)  | 1,082.80 | 703.82 | 20.50 | 671254138490 |
| 3453215 | ROYAL 195-0.5-WB ES-S   | 11-3/4" – 12-3/4" LDIM 0.5 gpf (1.9 Lpf)  | 1,082.80 | 703.82 | 20.50 | 671254138506 |

For "L" Dimension longer than 12-3/4", add 5.30 per inch.

24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500 urinal sensor with Override button – for concealed flushometer for 3/4" exposed top spud urinals.

|         |                       |  |          |        |       |              |
|---------|-----------------------|--|----------|--------|-------|--------------|
| 3453233 | ROYAL 197-WB ES-S     | 11-3/4" – 12-3/4" LDIM 1.5 gpf (5.7 Lpf) | 1,429.90 | 929.44 | 21.50 | 671254139084 |
| 3453234 | ROYAL 197-1-WB ES-S   | 11-3/4" – 12-3/4" LDIM 1.0 gpf (3.8 Lpf) | 1,429.90 | 929.44 | 21.50 | 671254139091 |
| 3453235 | ROYAL 197-0.5-WB ES-S | 11-3/4" – 12-3/4" LDIM 0.5 gpf (1.9 Lpf) | 1,227.30 | 797.75 | 21.50 | 671254139107 |
| 3453223 | ROYAL 197-WB ES-S     | 2-3/4" – 10-3/4" LDIM 1.5 gpf (5.7 Lpf)  | 1,429.90 | 929.44 | 21.50 | 671254139022 |
| 3453224 | ROYAL 197-1-WB ES-S   | 2-3/4" – 10-3/4" LDIM 1.0 gpf (3.8 Lpf)  | 1,227.30 | 797.75 | 21.50 | 671254139039 |
| 3453225 | ROYAL 197-0.5-WB ES-S | 2-3/4" – 10-3/4" LDIM 0.5 gpf (1.9 Lpf)  | 1,227.30 | 797.75 | 21.50 | 671254139046 |

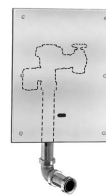
For "L" Dimension longer than 12-3/4", add 5.30 per inch.



ROYAL 195 ES-S



ROYAL 197 ES-S



ROYAL 190-WB ES-S



ROYAL 192-WB ES-S

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| Code Number  | Product Number             | Description                              | List Price | MAPP Price | Est. Wt. (lbs.) | UPC Code     |
|--|----------------------------|--|------------|------------|-----------------|--------------|
| 24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500 urinal sensor with piezo-technology override button, 13" x 13" stainless steel access plate with vandal resistant screws – concealed flushometer with Small Wall Box for 3/4" concealed back spud urinals. |                            |  |            |            |                 |              |
| 3453254  | ROYAL 195-1.0-SWB ES-S OR  | 2-3/4" – 10-3/4" LDIM 1.0 gpf (3.8 Lpf)  | 1,296.10   | 842.47     | 18.00           | 671254352995 |
| 3453255  | ROYAL 195-0.5-SWB ES-S OR  | 2-3/4" – 10-3/4" LDIM 0.5 gpf (1.9 Lpf)  | 1,112.55   | 723.16     | 17.08           | 671254378612 |
| 3453262  | ROYAL 195-0.25-SWB ES-S OR | 2-3/4" – 10-3/4" LDIM 0.25 gpf (1.0 Lpf) | 1,112.55   | 723.16     | 17.08           | 671254401716 |

#### Sensor-Activated Royal® Urinal flushometer with Surface Mount Sensor

24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Surface mount water closet sensor with chrome plated die cast housing and RJ-11 sensor and solenoid connections – concealed flushometer for 3/4" concealed back spud urinals.

|         |                       |   |          |        |        |              |
|---------|-----------------------|---|----------|--------|--------|--------------|
| 3453043 | ROYAL 190 ES-SM       | 2-3/4"-10-3/4" LDIM 3.5 gpf (13.2 Lpf)    | 1,197.60 | 778.44 | 11.00  | 671254310650 |
| 3453050 | ROYAL 194 ES-SM       | 2-3/4"-10-3/4" LDIM 1.5 gpf (5.7 Lpf)     | 1,175.00 | 763.75 | 11.00  | 671254265301 |
| 3453051 | ROYAL 194-1 ES-SM     | 2-3/4"-10-3/4" LDIM 1.0 gpf (3.8 Lpf)     | 1,175.00 | 763.75 | 11.00  | 671254265714 |
| 3453052 | ROYAL 194-0.5 ES-SM   | 2-3/4"-10-3/4" LDIM 0.5 gpf (1.9 Lpf)     | 1,008.60 | 655.59 | 11.00  | 671254265721 |
| 3453229 | ROYAL 195 ES-SM       | 2-3/4"-10-3/4" LDIM 1.5 gpf (5.7 Lpf)     | 1,329.85 | 864.40 | 11.00  | 671254270480 |
| 3453244 | ROYAL 195-1 ES-SM     | 2-3/4"-10-3/4" LDIM 1.0 gpf (3.8 Lpf)     | 1,329.85 | 864.40 | 11.00  | 671254334946 |
| 3453243 | ROYAL 195-0.5 ES-SM   | 2-3/4"-10-3/4" LDIM 0.5 gpf (1.9 Lpf)     | 1,141.35 | 741.88 | 11.00  | 671254327351 |
| 3453268 | ROYAL 195-0.125 ES-SM | 2-3/4" – 10-3/4" LDIM 0.125 gpf (0.5 Lpf) | 1,329.85 | 864.40 | 10.008 | 671254389526 |

#### Sloan ECOS® Hardwire Sensor-Activated Urinal flushometers

6 VAC hardwire system sensor-activated control module with Smart Sense Technology™ and flex-tube diaphragm flushometer with angle stop, vacuum breaker flush connection, sweat solder kit with cover tube and cast set screw wall flange – supplied less handle opening and with metal cover – exposed flushometer for 3/4" top spud urinals. Sloan ECOS® 186-0.125 and ECOS 186-0.25 are supplied with pressure compensating cartridge in lieu of flex-tube diaphragm.

|         |                   |                     |        |        |      |              |
|---------|-------------------|---------------------|--------|--------|------|--------------|
| 3370443 | ECOS 186-1.0 HW   | 1.0 gpf (3.8 Lpf)   | 809.65 | 526.27 | 8.62 | 671254396807 |
| 3370441 | ECOS 186-0.5 HW   | 0.5 gpf (1.9 Lpf)   | 809.65 | 526.27 | 8.62 | 671254385566 |
| 3370442 | ECOS 186-0.25 HW  | 0.25 gpf (1.0 Lpf)  | 809.65 | 526.27 | 8.62 | 671254391963 |
| 3370440 | ECOS 186-0.125 HW | 0.125 gpf (0.5 Lpf) | 809.65 | 526.27 | 8.62 | 671254383197 |

#### Sensor-Activated Royal® Bedpan Washer flushometers

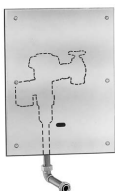
24 VAC hardwire system, includes: solenoid operated dual-filtered fixed by-pass diaphragm flushometer with angle stop and vacuum breaker flush connection. Adaptive Optima® EL-1500-L water closet sensor with override button, chrome plated wall plate(s) with vandal resistant screws – exposed flushometer for 1-1/2" top spud bowls.

|         |                             |                    |          |          |       |              |
|---------|-----------------------------|--------------------|----------|----------|-------|--------------|
| 3019747 | ROYAL BPW-1000 ES-S         | 3.5 gpf (13.2 Lpf) | 1,518.20 | 986.83   | 16.54 | 671254202511 |
| 3919721 | ROYAL BPW-1000-1.6 ES-S     | 1.6 gpf (6.0 Lpf)  | 1,548.40 | 1,006.46 | 16.54 | 671254124370 |
| 3459603 | ROYAL BPW-1100 ES-S         | 3.5 gpf (13.2 Lpf) | 1,406.75 | 914.39   | 13.81 | 671254334168 |
| 3459601 | ROYAL BPW-1100-1.6 ES-S     | 1.6 gpf (6.0 Lpf)  | 1,406.75 | 914.39   | 14.50 | 671254203860 |
| 3459600 | ROYAL BPW-1150-1.6 ES-S     | 1.6 gpf (6.0 Lpf)  | 1,251.25 | 813.31   | 15.00 | 671254203853 |
| 3459604 | ROYAL BPW-1150-1.28 ESS     | 1.28 gpf (4.8 Lpf) | 1,251.25 | 813.31   | 16.63 | 671254464087 |
| 3459610 | ROYAL BPW-1150-1.6 ESS TMO  | 1.6 gpf (6.0 Lpf)  | 1,300.45 | 845.29   | 16.70 | 671254399334 |
| 3459620 | ROYAL BPW-1150-1.28 ESS TMO | 1.28 gpf (4.8 Lpf) | 1,300.45 | 845.29   | 16.70 | 671254493490 |

#### Sloan ECOS® Bedpan Washer Dual-Flush Flushometer

Exposed, battery-powered sensor-activated Sloan ECOS® electronic dual-flush model bedpan washers – includes infrared sensor with multiple-focused, lobular sensing fields for high- and low-target detection.

|         |                           |                           |          |        |       |              |
|---------|---------------------------|---------------------------|----------|--------|-------|--------------|
| 3370404 | ECOS BPW-8150-1.6/1.1     | 1.6/1.1 gpf (6.0/4.2 Lpf) | 1,148.20 | 746.33 | 13.40 | 671254344174 |
| 3370407 | ECOS BPW-8100-1.6/1.1     | 1.6/1.1 gpf (6.0/4.2 Lpf) | 1,148.20 | 746.33 | 13.40 | 671254348431 |
| 3370459 | ECOS BPW-8100-1.6 /1.1 HW | 1.6/1.1 gpf (6.0/4.2 Lpf) | 1,148.20 | 746.33 | 13.40 | 671254503984 |



ROYAL 195-WB ES-S



ROYAL 197-WB ES-S



ROYAL 194 ES-SM



ROYAL BPW-1150-1.6 ES-S

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| Code Number   | Product Number           | Description  | List Price | MAPP Price | Est. Wt. (lbs.) | UPC Code     |
|---|--------------------------|--|------------|------------|-----------------|--------------|
| <b>Optima Plus® DFSM/SFSM</b>   |                          |  |            |            |                 |              |
| Battery-powered units convert manual into sensor-activated flushometers with True Mechanical Override. Dual-flush model provides up to 31% water savings per flush.   |                          |  |            |            |                 |              |
| 3325500   | EBV-500-A                | SFSM - Single Flush Side-Mount Retrofit Kit for Water Closets and Urinals      | 349.35     | 164.50     | 2.80            | 671254400139 |
| 3325501   | EBV-550-A                | DFSM - Dual-Flush Side-Mount Retrofit Kit for Water Closets                    | 401.70     | 261.11     | 2.80            | 671254400122 |
| <b>DFSM/SFSM Hardwired</b>  |                          |  |            |            |                 |              |
| Exposed, hardwired units convert manual into sensor-activated flushometers with True Mechanical Override. Dual-flush model provides up to 31% water savings per flush.  |                          |  |            |            |                 |              |
| 3345100   | EL-700-A                 | SFSM Single Flush side mount Hardwired retrofit kit                            | 401.70     | 261.11     | 2.80            | 671254413344 |
| 3345101   | EL-750-A                 | DFSM Dual Flush side mount Hardwired retrofit kit                              | 461.85     | 300.20     | 2.80            | 671254413351 |
| <b>SMOOTH® Retrofit Kits</b>  |                          |  |            |            |                 |              |
| Sensor-activated, battery-powered or hardwired retrofit kit, easily converts manual flushometers into water-saving electronics.   |                          |  |            |            |                 |              |
| 3325201   | EBV-200-A                | Side-Mount-Operator-Over-The-Handle Retrofit Kit for Water Closets and Urinals | 366.40     | 238.16     | 5.00            | 671254316027 |
| 3305201   | EL-600-A                 | SMOOTH® Hardwire Retrofit Kit for Water Closets and Urinals                    | 422.25     | 274.46     | 2.40            | 671254333819 |
| <b>Side Mount Operators</b>   |                          |  |            |            |                 |              |
| Easily converts your manual flushometer to modern water-saving electronics. Includes: Courtesy Flush® button, audio signal when batteries need replacement, comes with Metal cover (M).   |                          |  |            |            |                 |              |
| 0325105   | EBV-89A-M                | Side Mount Operator for Water Closets and Urinals – Metal Cover                | 373.50     | 186.75     | 2.80            | 671254243934 |
| <b>SOLIS® Water Closet flushometers</b>   |                          |  |            |            |                 |              |
| Exposed, solar-powered sensor-activated SOLIS® flushometer with angle stop, vacuum breaker flush connection, sweat solder kit with cover tube and cast set screw wall flange – supplied less handle opening and with metal cover. Includes infrared sensor with multiple-focused, lobular sensing fields for high- and low-target detection, (4) "AA" battery backup power source – for exposed flushometer with 1-1/2" top spud bowls. |                          |  |            |            |                 |              |
| 3370003   | SOLIS 8110               | 3.5 gpf (13.2 Lpf)   | 769.85     | 500.40     | 8.64            | 671254357853 |
| 3370001   | SOLIS 8111-1.6           | 1.6 gpf (6.0 Lpf)  | 769.85     | 500.40     | 8.90            | 671254349728 |
| 33700001  | SOLIS 8111-1.6 BT        |  | 808.45     | 525.49     | 8.90            | 671254498358 |
| 3370002   | SOLIS 8111- 1.28         | 1.28 gpf (4.8 Lpf)   | 769.85     | 500.40     | 8.90            | 671254349414 |
| 33700002  | SOLIS 8111-1.28 BT       | 1.28 gpf (4.8 Lpf)   | 808.45     | 525.49     | 8.90            | 671254349414 |
| 3370085   | SOLIS 8111-1.1           | 1.1 gpf (4.2 Lpf)  | 769.85     | 500.40     | 8.90            | 671254425446 |
| 33700003  | SOLIS 8111-1.1 BT        | 1.1 gpf (4.2 Lpf)  | 808.45     | 525.49     | 8.90            | 671254498433 |
| 3370023   | SOLIS 8113- 1.28         | 1.28 gpf (4.8 Lpf)   | 777.35     | 505.28     | 8.64            | 671254386891 |
| 3370045   | SOLIS 8113- 1.6          | 1.6 gpf (6.0 Lpf)  | 777.35     | 505.28     | 8.90            | 671254387553 |
| 3370024   | SOLIS 8115-1.28          | 1.28 gpf (4.8 Lpf)   | 786.30     | 511.10     | 8.64            | 671254389984 |
| 3370046   | SOLIS 8116-1.28          | 1.28 gpf (4.8 Lpf)   | 829.85     | 539.40     | 8.64            | 671254403895 |
| 3370078   | SOLIS 8116-1.6           | 1.6 gpf (6.0 Lpf)  | 829.85     | 539.40     | 8.64            | 671254437159 |
| 3370000   | SOLIS DF 8111-1.6/1.1    | 1.6/1.1 gpf (6.0/4.2 Lpf)  | 769.85     | 500.40     | 8.90            | 671254349735 |
| 33700004  | SOLIS DF 8111-1.6/1.1 BT | 1.6/1.1 gpf (6.0/4.2 Lpf)  | 808.45     | 525.49     | 8.90            | 671254498471 |
| 3370009   | SOLIS DF 8113-1.6/1.1    | 1.6/1.1 gpf (6.0/4.2 Lpf)  | 777.35     | 505.28     | 8.84            | 671254354548 |
| 3370013   | SOLIS DF 8115-1.6/1.1    | 1.6/1.1 gpf (6.0/4.2 Lpf)  | 786.30     | 511.10     | 8.84            | 671254375208 |



SOLIS 8152 SWB



EBV-200-A



EBV-550-A



SOLIS DF 8111

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| Code Number | Product Number | Description | List Price | MAPP Price | Est. Wt. (lbs.) | UPC Code |
|-------------|----------------|-------------|------------|------------|-----------------|----------|
|-------------|----------------|-------------|------------|------------|-----------------|----------|

### SOLIS® Urinal flushometers

Exposed, solar-powered, sensor-activated SOLIS® flushometer with angle stop, vacuum breaker flush connection, sweat solder kit with cover tube and cast set screw wall flange – supplied less handle opening and with metal cover. Includes infrared sensor with multiple-focused, lobular sensing fields for high and low target detection, (4) “AA” battery backup power source – for exposed flushometer with 3/4” top spud urinals. SOLIS 8186-0.25 and SOLIS 8186-0.125 are supplied with pressure compensating cartridge in lieu of flex-tube diaphragm.

|          |                     |                     |        |        |      |              |
|----------|---------------------|---------------------|--------|--------|------|--------------|
| 3370007  | SOLIS 8186          | 1.5 gpf (5.7 Lpf)   | 769.85 | 500.40 | 8.90 | 671254357426 |
| 3370004  | SOLIS 8186-0.5      | 0.5 gpf (1.9 Lpf)   | 769.85 | 500.40 | 8.90 | 671254350397 |
| 33700007 | SOLIS 8186-0.5 BT   | 0.5 gpf (1.9 Lpf)   | 808.45 | 525.49 | 8.90 | 671254498594 |
| 3370005  | SOLIS 8186-0.25     | 0.25 gpf (1.0 Lpf)  | 769.85 | 500.40 | 8.90 | 671254350311 |
| 33700006 | SOLIS 8186-0.25 BT  | 0.25 gpf (1.0 Lpf)  | 808.45 | 525.49 | 8.90 | 671254498556 |
| 3370010  | SOLIS 8186-0.125    | 0.125 gpf (0.5 Lpf) | 769.85 | 500.40 | 8.90 | 671254370340 |
| 33700005 | SOLIS 8186-0.125 BT | 0.125 gpf (0.5 Lpf) | 808.45 | 525.49 | 8.90 | 671254498518 |
| 3370006  | SOLIS 8186-1        | 1.0 gpf (3.8 Lpf)   | 769.85 | 500.40 | 8.31 | 671254349742 |
| 33700008 | SOLIS 8186-1 BT     | 1.0 gpf (3.8 Lpf)   | 808.45 | 525.49 | 8.31 | 671254498631 |

### Concealed SOLIS® Water Closet flushometer with Small Wall Box

Solar-powered, sensor-activated SOLIS® flushometer with angle stop, vacuum breaker flush connection. Includes infrared sensor with multiple-focused, lobular sensing fields for high and low target detection, (4) “AA” battery backup power source, true mechanical override, 13” x 13” stainless steel access plate with vandal resistant screws – for concealed flushometer with small wall box for 1-1/2” concealed back spud bowls.

|         |                     |  |          |        |       |              |
|---------|---------------------|--|----------|--------|-------|--------------|
| 3370060 | SOLIS 8152-1.28-SWB | 2-3/4” – 10-3/4” LDIM 1.28 gpf (4.8 Lpf) | 1,355.40 | 881.01 | 19.55 | 671254397118 |
| 3370061 | SOLIS 8152-1.6-SWB  | 2-3/4” – 10-3/4” LDIM 1.6 gpf (6.0 Lpf)  | 1,355.40 | 881.01 | 19.55 | 671254395985 |

### Concealed SOLIS® Urinal flushometer with Small Wall Box

Solar-powered, sensor-activated SOLIS® flushometer with angle stop, vacuum breaker flush connection. Includes infrared sensor with multiple-focused, lobular sensing fields for high and low target detection, (4) “AA” battery backup power source, true mechanical override, 13” x 13” stainless steel access plate with vandal resistant screws – for concealed flushometer with small wall box for 3/4” concealed back spud urinals.

|         |                       |   |          |        |       |              |
|---------|-----------------------|---|----------|--------|-------|--------------|
| 3370062 | SOLIS 8195-0.5-SWB OR | 2-3/4” – 10-3/4” LDIM 0.5 gpf (1.9 Lpf) | 1,355.40 | 881.01 | 19.55 | 671254397002 |
| 3370063 | SOLIS 8195-1.0-SWB OR | 2-3/4” – 10-3/4” LDIM 1.0 gpf (3.8 Lpf) | 1,355.40 | 881.01 | 19.55 | 671254397491 |

### Sloan ECOS® Battery-Powered Water Closet flushometers

Exposed, battery-powered, sensor-activated Sloan ECOS® control module with Smart Sense Technology™ and flex-tube diaphragm flushometer with angle stop, vacuum breaker flush connection, sweat solder kit with cover tube and cast set screw wall flange – supplied less handle opening and with metal cover – for 1-1/2” top spud water closets.

|          |                    |                            |        |        |      |              |
|----------|--------------------|----------------------------|--------|--------|------|--------------|
| 3370400  | ECOS 8111-1.6/1.1  | 1.6/1.1 gpf (6.0/4.2 Lpf)  | 748.80 | 486.72 | 8.70 | 671254341661 |
| 3370448  | ECOS 8111-1.28 OR  | 1.28 gpf (4.8 Lpf)         | 703.05 | 456.98 | 8.70 | 671254400153 |
| 33704001 | ECOS 8111 1.28/1.1 | 1.28/1.1 gpf (4.8/4.2 Lpf) | 748.80 | 486.72 | 8.70 | 671254506091 |
| 3370460  | ECOS 8111-1.1      | 1.1 gpf (4.2 Lpf)          | 703.05 | 456.98 | 8.70 | 671254424364 |
| 3370403  | ECOS 8113-1.6/1.1  | 1.6/1.1 gpf (6.0/4.2 Lpf)  | 755.05 | 490.78 | 8.90 | 671254343580 |
| 3370402  | ECOS 8115-1.6/1.1  | 1.6/1.1 gpf (6.0/4.2 Lpf)  | 786.30 | 511.10 | 9.10 | 671254342811 |
| 3370410  | ECOS 8116-1.6/1.1  | 1.6/1.1 gpf (6.0/4.2 Lpf)  | 801.80 | 521.17 | 9.18 | 671254372757 |

### Sloan ECOS® Battery-Powered Sensor-Activated Urinal flushometers

Exposed, battery-powered, sensor-activated Sloan ECOS® control module with Smart Sense Technology™ deferred flush protocol and flex-tube diaphragm flushometer with angle stop, vacuum breaker flush connection, sweat solder kit with cover tube and cast set screw wall flange – supplied less handle opening and with metal cover – for 3/4” top spud Bowls. ECOS 8186-0.125 and 8186-0.25 are supplied with pressure compensating cartridge in lieu of flex-tube diaphragm.

|         |                         |                     |        |        |      |              |
|---------|-------------------------|---------------------|--------|--------|------|--------------|
| 3370425 | ECOS 8186-0.125 Less OR | 0.125 gpf (0.5 Lpf) | 703.05 | 456.98 | 8.62 | 671254388505 |
| 3370431 | ECOS 8186-0.5 Less OR   | 0.5 gpf (1.9 Lpf)   | 703.05 | 456.98 | 8.62 | 671254373174 |
| 3250325 | ECOS 8186-0.125 With OR | 0.125 gpf (0.5 Lpf) | 703.05 | 456.98 | 8.62 | 671254370616 |
| 3250290 | ECOS 8186-0.25 With OR  | 0.25 gpf (1.0 Lpf)  | 703.05 | 456.98 | 8.62 | 671254343054 |
| 3370430 | ECOS 8186-0.5 With OR   | 0.5 gpf (1.9 Lpf)   | 703.05 | 456.98 | 8.62 | 671254373167 |
| 3370435 | ECOS 8186-1.0 With OR   | 1.0 gpf (3.8 Lpf)   | 703.05 | 456.98 | 8.62 | 671254378223 |



SOLIS 8186



SLOAN ECOS 8111

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| Code Number | Product Number | Description | List Price | MAPP Price | Est. Wt. (lbs.) | UPC Code |
|-------------|----------------|-------------|------------|------------|-----------------|----------|
|-------------|----------------|-------------|------------|------------|-----------------|----------|

**G2 Optima Plus® Battery-Powered Sensor-Activated Water Closet flushometers**

Battery-powered, sensor-activated control module and flex-tube diaphragm flushometer with angle stop, vacuum breaker flush connection, sweat solder kit with cover tube and cast set screw wall flange – for exposed flushometer for 1-1/2" top spud bowls.

|         |              |                                 |        |        |       |              |
|---------|--------------|---------------------------------|--------|--------|-------|--------------|
| 3250404 | G2 8110      | Optima Plus® 3.5 gpf (13.2 Lpf) | 738.15 | 479.80 | 8.40  | 671254266810 |
| 3250289 | G2 8111-1.28 | Optima Plus® 1.28 gpf (4.8 Lpf) | 738.15 | 479.80 | 8.90  | 671254342460 |
| 3250400 | G2 8111      | Optima Plus® 1.6 gpf (6.0 Lpf)  | 738.15 | 479.80 | 8.30  | 671254266094 |
| 3250422 | G2 8113      | Optima Plus® 3.5 gpf (13.2 Lpf) | 744.60 | 483.99 | 9.30  | 671254266834 |
| 3250421 | G2 8113-1.6  | Optima Plus® 1.6 gpf (6.0 Lpf)  | 744.60 | 483.99 | 9.30  | 671254266841 |
| 3250340 | G2 8113-1.28 | Optima Plus® 1.28 gpf (4.8 Lpf) | 744.60 | 483.99 | 9.03  | 671254383616 |
| 3250441 | G2 8114-1.6  | Optima Plus® 1.6 gpf (6.0 Lpf)  | 912.35 | 593.03 | 8.40  | 671254270763 |
| 3250415 | G2 8115      | Optima Plus® 3.5 gpf (13.2 Lpf) | 753.95 | 490.07 | 9.07  | 671254266568 |
| 3250423 | G2 8115-1.6  | Optima Plus® 1.6 gpf (6.0 Lpf)  | 753.95 | 490.07 | 10.10 | 671254266858 |
| 3250295 | G2 8115-1.28 | Optima Plus® 1.28 gpf (4.8 Lpf) | 753.95 | 490.07 | 10.10 | 671254352544 |
| 3250345 | G2 8116-1.28 | Optima Plus® 1.28 gpf (4.8 Lpf) | 757.85 | 492.60 | 9.34  | 671254384217 |
| 3250407 | G2 8116-1.6  | Optima Plus® 1.6 gpf (6.0 Lpf)  | 757.85 | 492.60 | 10.10 | 671254266872 |
| 3250413 | G2 8116      | Optima Plus® 3.5 gpf (13.2 Lpf) | 757.85 | 492.60 | 10.10 | 671254266865 |

**G2 Optima Plus® Battery-Powered Sensor-Activated Urinal flushometers**

Battery-powered, sensor-activated control module and flex-tube diaphragm flushometer with angle stop, vacuum breaker flush connection, sweat solder kit with cover tube and cast set screw wall flange – for exposed flushometer for 1-1/4" top urinals.

|         |             |                                 |        |        |      |              |
|---------|-------------|---------------------------------|--------|--------|------|--------------|
| 3250406 | G2 8180-1   | Optima Plus® 1.0 gpf (3.8 Lpf)  | 738.15 | 479.80 | 8.20 | 671254266902 |
| 3250408 | G2 8180     | Optima Plus® 3.5 gpf (13.2 Lpf) | 738.15 | 479.80 | 8.20 | 671254266889 |
| 3250409 | G2 8180-1.5 | Optima Plus® 1.5 gpf (5.7 Lpf)  | 738.15 | 479.80 | 8.20 | 671254266896 |
| 3250401 | G2 8186-1   | Optima Plus® 1.0 gpf (3.8 Lpf)  | 738.15 | 479.80 | 8.80 | 671254266100 |
| 3250403 | G2 8186     | Optima Plus® 1.5 gpf (5.7 Lpf)  | 738.15 | 479.80 | 8.80 | 671254266827 |
| 3250424 | G2 8186-0.5 | Optima Plus® 0.5 gpf (1.9 Lpf)  | 738.15 | 479.80 | 8.80 | 671254266919 |

**Royal Optima Plus SFSM for Reclaimed Water**

Battery-powered, sensor-activated flushometer with True Mechanical Override designed for reclaimed water.

|         |                         |   |        |        |      |              |
|---------|-------------------------|---|--------|--------|------|--------------|
| 3010081 | Royal 111-1.28 RW SFSM  | 1.28 gpf/4.8 Lpf for reclaimed water              | 650.35 | 422.73 | 6.83 | 671254428423 |
| 3012673 | Royal 186-0.5 RW SFSM   | 0.5 gpf/1.9 Lpf For Urinals for reclaimed water   | 598.05 | 388.73 | 6.83 | 671254428430 |
| 3012674 | Royal 186-0.25 RW SFSM  | 0.25 gpf/1.0 Lpf For Urinals for reclaimed water  | 598.05 | 388.73 | 6.83 | 671254428447 |
| 3012675 | Royal 186-0.125 RW SFSM | 0.125 gpf/0.5 Lpf For Urinals for reclaimed water | 598.05 | 388.73 | 6.83 | 671254428454 |

**Royal® Optima Plus® DFSM/SFSM Water Closet flushometers**

Battery-powered, sensor-activated flushometers with True Mechanical Override. Dual-flush model provides up to 31% water savings per flush.

|         |                        |                          |        |        |      |              |
|---------|------------------------|--------------------------|--------|--------|------|--------------|
| 3910275 | Royal 111-1.6 SFSM     | 1.6 gpf/6.0 Lpf          | 574.45 | 373.39 | 6.83 | 671254412637 |
| 3910276 | Royal 111-1.28 SFSM    | 1.28 gpf/4.8 Lpf         | 574.45 | 373.39 | 6.83 | 671254412644 |
| 3910285 | Royal 111-1.6/1.1 DFSM | 1.6/1.1 gpf- 6.0/4.2 Lpf | 626.80 | 407.42 | 6.83 | 671254412613 |



ECOS 8186



G2 8111



G2 8180



G2 8186

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|-------------|----------------|-------------|------------|------------|-----------------|----------|
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**Royal® Optima Plus® SFSM Urinal flushometers**

Battery-powered, sensor-activated flushometers with True Mechanical Override.

|         |                      |                               |        |        |      |              |
|---------|----------------------|-------------------------------|--------|--------|------|--------------|
| 3912745 | Royal 186-1.0 SFSM   | 1.0 gpf/3.8 Lpf For Urinals   | 574.45 | 373.39 | 6.83 | 671254412712 |
| 3912746 | Royal 186-0.5 SFSM   | 0.5 gpf/1.9 Lpf For Urinals   | 574.45 | 373.39 | 6.83 | 671254412729 |
| 3912747 | Royal 186-0.25 SFSM  | 0.25 gpf/1.0 Lpf For Urinals  | 574.45 | 373.39 | 6.83 | 671254412736 |
| 3912748 | Royal 186-0.125 SFSM | 0.125 gpf/0.5 Lpf For Urinals | 574.45 | 373.39 | 6.83 | 671254412743 |

**Royal® DFSM/SFSM Hardwired Water Closet flushometers**

Hardwired, sensor-activated flushometers with True Mechanical Override.

|         |                           |                      |        |        |      |              |
|---------|---------------------------|----------------------|--------|--------|------|--------------|
| 3910286 | ROYAL 111-1.6/1.1 DFSM HW | 1.6/1.1 DF Hardwired | 626.80 | 407.42 | 6.83 | 671254417847 |
| 3910287 | ROYAL 111-1.6 SFSM HW     | 1.6 gpf Hardwired    | 626.80 | 407.42 | 6.83 | 671254417830 |
| 3910288 | ROYAL 111-1.28 SFSM HW    | 1.28 gpf Hardwired   | 626.80 | 407.42 | 6.83 | 671254417977 |

**Royal® SFSM Hardwired Urinal flushometers**

Hardwired, sensor-activated flushometers with True Mechanical Override.

|         |                         |                     |        |        |      |              |
|---------|-------------------------|---------------------|--------|--------|------|--------------|
| 3912750 | ROYAL 186-1 SFSM HW     | 1.0 gpf Hardwired   | 626.80 | 407.42 | 6.83 | 671254417854 |
| 3912751 | ROYAL 186-0.5 SFSM HW   | 0.5 gpf Hardwired   | 626.80 | 407.42 | 6.83 | 671254417861 |
| 3912752 | ROYAL 186-0.25 SFSM HW  | 0.25 gpf Hardwired  | 626.80 | 407.42 | 6.83 | 671254417878 |
| 3912753 | ROYAL 186-0.125 SFSM HW | 0.125 gpf Hardwired | 626.80 | 407.42 | 6.83 | 671254417885 |

**Royal® SMOOTH® Water Closet flushometers**

Exposed, battery-powered, diaphragm-type, sensor-activated, water closet flushometers for floor mounted or wall hung top spud bowls, True Mechanical Override, four "C" batteries, flush accuracy controlled by CID technology.

|         |                          |                    |        |        |       |              |
|---------|--------------------------|--------------------|--------|--------|-------|--------------|
| 3910072 | ROYAL 111-1.28 SMOOTH    | 1.28 gpf (4.8 Lpf) | 602.00 | 391.30 | 12.50 | 671254348257 |
| 3910135 | ROYAL 111 SMOOTH         | 1.6 gpf (6.0 Lpf)  | 602.00 | 391.30 | 12.50 | 671254322417 |
| 3010125 | ROYAL 110 SMOOTH         | 3.5 gpf (13.2 Lpf) | 602.00 | 391.30 | 12.50 | 671254322424 |
| 3010360 | ROYAL 115 SMOOTH         | 3.5 gpf (13.2 Lpf) | 618.85 | 402.25 | 13.80 | 671254322462 |
| 3910350 | ROYAL 115-1.6 SMOOTH     | 1.6 gpf (6.0 Lpf)  | 618.85 | 402.25 | 13.80 | 671254322455 |
| 3910440 | ROYAL 116-1.6 SMOOTH     | 1.6 gpf (6.0 Lpf)  | 623.20 | 405.08 | 11.52 | 671254338456 |
| 3910281 | ROYAL 111 SMOOTH HW      | 1.6 gpf (6.0 Lpf)  | 657.90 | 427.64 | 10.77 | 671254375802 |
| 3910059 | ROYAL 111-1.28 SMOOTH HW | 1.28 gpf (4.8 Lpf) | 657.90 | 427.64 | 9.84  | 671254350496 |

**Royal® SMOOTH® Urinal flushometers**

Exposed, battery-powered, diaphragm-type, sensor-activated, urinal flushometers for wall hung top spud urinals, True Mechanical Override, four "C" batteries, flush accuracy controlled by CID technology.

|         |                           |                     |        |        |       |              |
|---------|---------------------------|---------------------|--------|--------|-------|--------------|
| 3912475 | ROYAL 180-1 SMOOTH        | 1.0 gpf (3.8 Lpf)   | 602.00 | 391.30 | 12.50 | 671254322486 |
| 3012460 | ROYAL 180 SMOOTH          | 3.5 gpf (13.2 Lpf)  | 602.00 | 391.30 | 12.50 | 671254322479 |
| 3012660 | ROYAL 186 SMOOTH          | 1.5 gpf (5.7 Lpf)   | 602.00 | 391.30 | 12.50 | 671254322431 |
| 3912650 | ROYAL 186-0.5 SMOOTH      | 0.5 gpf (1.9 Lpf)   | 602.00 | 391.30 | 12.50 | 671254333413 |
| 3912670 | ROYAL 186-1 SMOOTH        | 1.0 gpf (3.8 Lpf)   | 602.00 | 391.30 | 12.50 | 671254322448 |
| 3912695 | ROYAL 186-0.25 SMOOTH     | 0.25 gpf (1.0 Lpf)  | 602.00 | 391.30 | 12.50 | 671254348851 |
| 3912698 | ROYAL 186-0.125 SMOOTH    | 0.125 gpf (0.5 Lpf) | 602.00 | 391.30 | 12.50 | 671254348844 |
| 3912717 | ROYAL 186-1 SMOOTH HW     | 1.0 gpf (3.8 Lpf)   | 657.90 | 427.64 | 6.86  | 671254377080 |
| 3912716 | ROYAL 186-0.5 SMOOTH HW   | 0.5 gpf (1.9 Lpf)   | 657.90 | 427.64 | 6.86  | 671254377332 |
| 3912712 | ROYAL 186-0.25 SMOOTH HW  | 0.25 gpf (1.0 Lpf)  | 657.90 | 427.64 | 10.47 | 671254350519 |
| 3912700 | ROYAL 186-0.125 SMOOTH HW | 0.125 gpf (0.5 Lpf) | 657.90 | 427.64 | 10.47 | 671254350502 |



ROYAL 111 SMOOTH



ROYAL 180 SMOOTH



G2 RESS-U

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|-------------|----------------|-------------|------------|------------|-----------------|----------|
|-------------|----------------|-------------|------------|------------|-----------------|----------|

**Sloan CX Sensor Flushometers**

Sloan's new line of sensor flushometers for concealed applications features the smallest front access wall plate in the industry. Battery operated with hardwired option available.

|         |                   |                               |          |        |      |              |
|---------|-------------------|-------------------------------|----------|--------|------|--------------|
| 3400300 | CX 8158-1.6       | Sloan CX 1.6 gpf flushometer  | 1,135.40 | 738.01 | 5.00 | 671254476387 |
| 3400301 | CX 8158-1.28      | Sloan CX 1.28 gpf flushometer | 1,135.40 | 738.01 | 5.00 | 671254476394 |
| 3400333 | CX8154-1.28 CP FM | Sloan CX 1.28 gpf flushometer | 1,170.80 | 761.02 | 5.00 | 671254489929 |
| 3400302 | CX 8198-0.5       | Sloan CX 0.5 gpf flushometer  | 1,135.40 | 738.01 | 5.00 | 671254476400 |
| 3400303 | CX 8198-0.25      | Sloan CX 0.25 gpf flushometer | 1,135.40 | 738.01 | 5.00 | 671254476417 |

**G2 RESS Retrofit Kits for Royal® or Regal®**

Battery-powered, sensor-activated control module and flex-tube diaphragm inside parts kit, 4 "AA" alkaline batteries. Installation strap wrench and screwdriver included. Kits must be ordered to meet flush volume requirements of existing or new water closets and urinals.

|         |                |   |        |        |      |              |
|---------|----------------|---|--------|--------|------|--------------|
| 3325400 | G2 RESS-C      | G2 Optima Plus® Retrofit Kits for 3.5 gpf or 1.6 gpf Water Closets – Royal® or Regal® | 570.30 | 370.70 | 3.50 | 671254267060 |
| 3325401 | G2 RESS-C-2.4  | G2 Optima Plus® Retrofit Kits for Water Closets – Royal® or Regal®                    | 570.30 | 370.70 | 3.50 | 671254267077 |
| 3325435 | G2 RESS-C-1.28 | G2 Optima Plus® Retrofit Kits for Water Closets – Royal® or Regal®                    | 570.30 | 370.70 | 3.50 | 671254342453 |
| 3325402 | G2 RESS-U      | G2 Optima Plus® Retrofit Kits for 1.5 gpf or 1.0 gpf Urinals – Royal® or Regal®       | 570.30 | 370.70 | 3.50 | 671254267084 |
| 3325403 | G2 RESS-U-0.5  | G2 Optima Plus® Retrofit Kits for Urinals – Royal® or Regal®                          | 570.30 | 370.70 | 3.50 | 671254267091 |
| 3325436 | G2 RESS-U-0.25 | G2 Optima Plus® Retrofit Kits for Urinals – Royal® or Regal®                          | 570.30 | 370.70 | 3.50 | 671254342477 |

**G2 RESS Retrofit Kits for use on Zurn† Flush Valves**

Battery-powered, sensor-activated control module and flex-tube diaphragm inside parts kit, four "AA" alkaline batteries. Installation strap wrench and screwdriver included. Kits must be ordered to meet flush volume requirements of existing or new water closets and urinals.

|         |                         |   |        |        |      |              |
|---------|-------------------------|---|--------|--------|------|--------------|
| 3325404 | G2 RESS-XD-C            | G2 Optima Plus® Retrofit Kits with Adjustable Ground Joint ADJ/GJ 5 C TO C for 3.5 gpf or 1.6 gpf Water Closets | 666.70 | 433.36 | 6.00 | 671254268647 |
| 3325405 | G2 RESS-XD-U            | G2 Optima Plus® Retrofit Kits with Adjustable Ground Joint ADJ/GJ 5 C TO C for 1.5 gpf or 1.0 gpf Urinals       | 666.70 | 433.36 | 6.00 | 671254268654 |
| 3325407 | G2 RESS-XD-U-0.5 ADJ/GJ | G2 Optima Plus® Retrofit Kits with Adjustable Ground Joint for Urinals  | 666.70 | 433.36 | 6.00 | 671254268791 |
| 3325409 | G2 RESS-XD-C-4.5        | G2 Optima Plus® Retrofit Kits with Adjustable Ground Joint for Urinals ADJ/GJ 5 C/C                             | 666.70 | 433.36 | 6.00 | 671254269682 |
| 3325410 | G2 RESS-Z-C (ZURN)      | G2 Optima Plus® Retrofit Kits for use on Zurn 3.5 gpf or 1.6 gpf Water Closet Valves                            | 570.30 | 370.70 | 2.50 | 671254267107 |
| 3325412 | G2 RESS-Z-U (ZURN)      | G2 Optima Plus® Retrofit Kits for use on Zurn 1.5 gpf or 1.0 gpf Urinal Valves                                  | 570.30 | 370.70 | 2.50 | 671254267220 |
| 3325413 | G2 RESS-Z-U-0.5 (ZURN)  | G2 Optima Plus® Retrofit Kits for use on Zurn Urinal Valves   | 570.30 | 370.70 | 2.50 | 671254267237 |



SOLIS RESS



SOLIS DF RESS



EBV-1005-A



EBV-1007-A

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| Code Number  | Product Number             | Description  | List Price \$ | Est. Wt. (lbs.) | UPC Code           |
|--|----------------------------|--|---------------|-----------------|--------------------|
| <b>SOLIS® RESS Retrofit Kits – Convert to Solar-Powered Retrofit Kits</b>  |                            |  |               |                 |                    |
| Solar-powered, sensor-activated SOLIS® control module and inside parts kit, 4 “AA” Alkaline batteries. Installation strap wrench and screwdriver included. Kits must be ordered to meet the flush volume requirements of existing or new water closets and urinals. Includes Courtesy Flush® override button.  |                            |  |               |                 |                    |
| 3375300  | SOLIS DF RESS-C-1.6/1.1    | Dual-Flush for Water Closet flushometers   | 594.70        | 386.56          | 3.50 671254351424  |
| 33753004   | SOLIS DF RESS-C-1.6/1.1 BT | Dual-Flush for Water Closet flushometers   | 633.30        | 411.65          | 3.50 671254498754  |
| 3375301  | SOLIS RESS-C               | Single Flush for 3.5 gpf or 1.6 gpf Water Closet flushometers                                    | 594.70        | 386.56          | 3.50 671254351714  |
| 33753002   | SOLIS RESS-C-1.6 BT        | Single Flush for 1.6 gpf Water Closet flushometers   | 633.30        | 411.65          | 3.50 671254498679  |
| 3375302  | SOLIS RESS-C-1.28          | Single Flush for 1.28 gpf Water Closet flushometers  | 594.70        | 386.56          | 3.50 671254351677  |
| 33753003   | SOLIS RESS-C-1.28 BT       | Single Flush for 1.28 gpf Water Closet flushometers  | 633.30        | 411.65          | 3.50 671254498716  |
| 3375304  | SOLIS RESS-U-0.5           | Single Flush for 0.5 gpf Urinal flushometers   | 594.70        | 386.56          | 3.50 671254351684  |
| 33753008   | SOLIS RESS-U-0.5 BT        | Single Flush for 0.5 gpf Urinal flushometers   | 633.30        | 411.65          | 3.50 671254498914  |
| 3375305  | SOLIS RESS-U-0.25          | Single Flush for 0.25 gpf Urinal flushometers  | 594.70        | 386.56          | 3.50 671254351608  |
| 33753007   | SOLIS RESS-U-0.25 BT       | Single Flush for 0.25 gpf Urinal flushometers  | 633.30        | 411.65          | 3.50 671254498877  |
| 3375306  | SOLIS RESS-U               | Single Flush for 1.5 gpf or 1.0 gpf Urinal flushometers  | 594.70        | 386.56          | 3.50 671254349711  |
| 33753005   | SOLIS RESS-U-1.0 BT        | Single Flush for 1.0 gpf Urinal flushometers   | 633.30        | 411.65          | 3.50 671254498792  |
| 3375349  | SOLIS RESS-U-0.125         | Single Flush for 0.125 gpf Urinal flushometers   | 594.70        | 386.56          | 3.50 671254405103  |
| 33753006   | SOLIS RESS-U-0.125 BT      | Single Flush for 0.125 gpf Urinal flushometers   | 633.30        | 411.65          | 3.50 671254498839  |
| <b>SOLIS® Zurn† Retrofit Kits</b>  |                            |  |               |                 |                    |
| Battery-powered, sensor-activated control module and flex-tube diaphragm inside parts kit, 4 “AA” Alkaline batteries. Installation strap wrench and screwdriver included. Kits must be ordered to meet flush volume requirements of existing or new water closets and urinals.   |                            |  |               |                 |                    |
| 3375320  | SOLIS RESS-Z-C             | Single Flush for Zurn 3.5 gpf or 1.6 gpf Water Closet flushometers                               | 594.70        | 386.56          | 3.50 671254353343  |
| 3375325  | SOLIS DF RESS-Z-C-1.6/1.1  | Dual-Flush for Zurn Water Closet flushometers  | 594.70        | 386.56          | 3.50 671254353688  |
| 3375346  | SOLIS RESS-Z-C-1.28        | Single Flush for Zurn Water Closet flushometers  | 594.70        | 386.56          | 3.50 671254387898  |
| 3375347  | SOLIS RESS-Z-U-0.25        | Single Flush for Zurn Urinal flushometers  | 594.70        | 386.56          | 3.50 671254387904  |
| 3375348  | SOLIS RESS-Z-U-0.5         | Single Flush for Zurn Urinal flushometers  | 594.70        | 386.56          | 3.50 671254387911  |
| <b>SOLIS® Upgrade Kits Convert Sloan G2 flushometers to SOLIS®</b>   |                            |  |               |                 |                    |
| Solar-powered, sensor-activated SOLIS® control module to upgrade existing G2 or Sloan ECOS® flushometers. Includes control module and solar panel assembly with Override button(s). Does not include internal kit.   |                            |  |               |                 |                    |
| 3375350  | EBV-1007-A                 | Conversion Kit for Single Flush Water Closet G2 TO SOLIS®  | 416.80        | 270.92          | 1.80 671254368064  |
| 3375351  | EBV-1005-A                 | Dual-Flush Conversion Kit for Water Closet flushometers – G2 to SOLIS® for use with 1.6 gpf only | 416.80        | 270.92          | 1.80 671254354357  |
| 3375352  | EBV-1006-A                 | Conversion Kit for Single Flush Urinal G2 TO SOLIS®  | 416.80        | 270.92          | 1.80 671254368057  |
| <b>Sloan ECOS® RESS Retrofit Kits</b>  |                            |  |               |                 |                    |
| Electronic, sensor-activated Sloan ECOS® retrofit contains control module and inside parts kit, 4 “AA” Alkaline batteries. Installation strap wrench and screwdriver included. The closet is an electronic dual-flush and urinal utilizes Smart Sense Technology™ deferred flush protocol. Kits must be ordered to meet the flush volume requirements of existing or new water closets and urinals. ECOS™ RESS-U-0.25 and RESS-U-0.125 supplied with pressure compensating cartridge in lieu of flex tube diaphragm. |                            |  |               |                 |                    |
| 3375400  | ECOS RESS-C-1.6/1/1        | Dual-Flush Retrofit Kit for Water Closet flushometers  | 585.55        | 380.61          | 3.50 671254341678  |
| 33754001   | ECOS RESS-C-1.28/1/1       | Dual-Flush Retrofit Kit for Water Closet flushometers  | 585.55        | 380.61          | 3.50 671254498839  |
| 3375421  | ECOS RESS-U-0.125 With OR  | ECOS Retrofit Kits for Urinals – Royal® or Regal®  | 543.15        | 353.05          | 3.50 671254387003  |
| 3375424  | ECOS RESS-U-0.5 With OR    | ECOS Retrofit Kits for Urinals – Royal® or Regal®  | 543.15        | 353.05          | 3.50 671254413788  |
| 3375424  | ECOS RESS-U With OR        | ECOS Retrofit Kits for 1.5 gpf or 1.0 gpf Urinals – Royal® or Regal®                             | 543.15        | 353.05          | 3.50 —             |
| 3375421  | ECOS RESS-U-0.25 With OR   | ECOS Retrofit Kits for Urinals – Royal® or Regal®  | 543.15        | 353.05          | 3.50 —             |
| <b>Sloan ECOS® Upgrade Kits-Convert Sloan G2 flushometers to ECOS</b>  |                            |  |               |                 |                    |
| Battery-powered, sensor-activated Sloan ECOS® electronic dual-flush control module and button assembly.  |                            |  |               |                 |                    |
| 3375450  | EBV-1004-A                 | Dual-Flush Conversion Kit for Water Closet flushometers – G2 to ECOS® for use with 1.6 gpf only  | 279.90        | 181.94          | 0.60 671254348066  |
| <b>Wall Boxes</b>  |                            |  |               |                 |                    |
| 3305158  | EL-191-ALS                 | Kit Wall Box W/Optima Urinal Less Sensor   | 464.85        | 302.15          | 11.86 671254385122 |
| 3305160  | EL-192-ALS                 | Kit Wall Box W/Optima Closet Less Sensor   | 426.30        | 277.10          | 11.74 671254385115 |
| 3305178  | EL-191-A                   | Kit Wall Box W/Optima F/Urinal SS  | 791.60        | 514.54          | 11.86 671254040564 |
| 3305180  | EL-192-A                   | Kit Wall Box W/Optima F/Closet SS  | 787.45        | 511.84          | 11.74 671254069121 |

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