



Packaging & Print Professionals

AIRLESS BOTTLE



PP AIRLESS

PP AIRLESS

- ▶ all in plastic PP
- ▶ airless dispensing system
- ▶ small capacity
- ▶ snap on



| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Pump | PP |
| Bottle | PP |

A-101 SERIES



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 5ml | 74.0 | 50.7 | 33.0 | 18.3 | 0.1ml |
| 8ml | 88.2 | 64.9 | 47.3 | 18.3 | 0.1ml |
| 10ml | 105.9 | 82.0 | 69.0 | 18.3 | 0.1ml |
| 15ml | 130.9 | 107.0 | 98.0 | 18.3 | 0.1ml |



A-102 SERIES

| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Pump | PP |
| Bottle | PP |



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 5ml | 64.5 | 38.5 | 22.0 | 25.2 | 0.20ml |
| 10ml | 76.3 | 50.0 | 34.4 | 25.2 | 0.20ml |
| 15ml | 91.3 | 65.0 | 69.0 | 25.2 | 0.20ml |



A-106 SERIES

Actuator Options.



GR106A GR106B GR106C

| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Pump | PP |
| Bottle | PP |



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 5ml | 74.3 | 48.5 | 36.0 | 19.0 | 0.10ml |
| 8ml | 89.2 | 63.4 | 51.0 | 19.0 | 0.10ml |
| 10ml | 98.1 | 72.3 | 60.0 | 19.0 | 0.10ml |



A-105 SERIES

| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Pump | PP |
| Bottle | PP |



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 3ml | 54.7 | 29.0 | 8.0 | 23.2 | 0.1ml |
| 5ml | 60.6 | 35.0 | 13.0 | 23.2 | 0.1ml |
| 10ml | 76.4 | 51.0 | 23.0 | 23.2 | 0.1ml |
| 15ml | 92.5 | 67.0 | 40.0 | 23.2 | 0.1ml |



A-201 SERIES

Dust Cap



GR201A GR201B GR201C

| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Pump | PP |
| Bottle | PP |



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage Lotion/Spray |
|----------|-----------|-----------|--------------------|-------------|---------------------|
| 15ml | 83.2 | 57.5 | 40 | 30.8 | 0.20ml/0.12ml |
| 30ml | 110.1 | 84.6 | 65.6 | 30.8 | 0.20ml/0.12ml |
| 50ml | 150.0 | 124.0 | 105.0 | 30.8 | 0.20ml/0.12ml |
| 30ml | 120.1 | 83.1 | 65.6 | 30.8 | 0.20ml/0.12ml |



Actuator Options.



GR103A GR103B

| Part | Material |
|--------------|----------|
| Cap | PP |
| Pump | PP |
| Inner Bottle | PP |
| Outer Bottle | PP |

A-103 SERIES



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|-------------|
| 7.5mlx2 | 112.1 | 77.8 | 55.7 | 53.0x28.0 | 0.2ml/0.4ml |
| 15mlx2 | 146.7 | 112.4 | 90.3 | 53.0x28.0 | 0.2ml/0.4ml |



| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Pump | PP |
| Bottle | PP |

A-211 SERIES

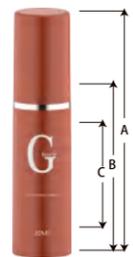


| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 15ml | 89.1 | 59.0 | 30.4 | 32.2 | 0.20ml |
| 20ml | 97.9 | 67.8 | 39.2 | 32.2 | 0.20ml |
| 25ml | 111.2 | 80.3 | 51.7 | 32.2 | 0.20ml |
| 30ml | 121.3 | 90.3 | 61.7 | 32.2 | 0.20ml |



| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Closure | PP |
| Bottle | PP |

A-209 SERIES

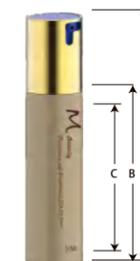


| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 15ml | 93.7 | 63.1 | 34.0 | 29.3 | 0.20ml |
| 30ml | 123.1 | 92.5 | 63.4 | 29.3 | 0.20ml |
| 50ml | 160.9 | 130.3 | 101.2 | 29.3 | 0.20ml |



| Part | Material |
|----------|----------|
| Actuator | PP |
| Pump Cap | PP |
| Bottle | PP |

A-255 SERIES

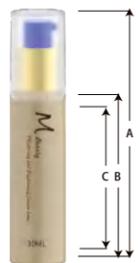


| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 15ml | 79.0 | 52.5 | 30.0 | 31.9 | 0.20ml |
| 30ml | 102.5 | 76.1 | 53.7 | 31.9 | 0.20ml |
| 50ml | 135.2 | 108.8 | 86.4 | 31.9 | 0.20ml |



| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Pump | PP |
| Bottle | PP |

A-226 SERIES



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 15ml | 101.0 | 70.7 | 47.5 | 30.0 | 0.2ml |
| 30ml | 133.4 | 103.1 | 79.9 | 30.0 | 0.2ml |
| 37ml | 145.9 | 115.6 | 92.0 | 30.0 | 0.2ml |
| 50ml | 162.9 | 132.6 | 109.0 | 33.0 | 0.2ml |



| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Shoulder | PP |
| Base | PP |

A-231 SERIES

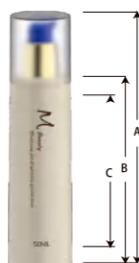


| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 50ml | 123.0 | 88.0 | 78.0 | 44.0 | 0.20ml |



| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Pump | PP |
| Bottle | PP |

A-229 SERIES



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 15ml | 100.1 | 73.1 | 60.0 | 26.7 | 0.2ml |
| 30ml | 114.9 | 87.9 | 65.7 | 30.7 | 0.2ml |
| 50ml | 150.0 | 122.9 | 100.23 | 39.2 | 0.2ml |



Actuator Options.



GR501A GR501B

| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Pump | PP |
| Bottle | PP |

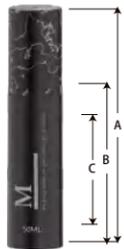
A-501 SERIES



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage Lotion/Spray |
|----------|-----------|-----------|--------------------|-------------|---------------------|
| 15ml | 88.9 | 62.5 | 36.0 | 23.9 | 0.13±0.02ml |
| 20ml | 104.3 | 77.9 | 57.0 | 23.9 | 0.13±0.02ml |
| 25ml | 119.5 | 93.3 | 62.0 | 23.9 | 0.13±0.02ml |
| 30ml | 135.3 | 108.9 | 75.5 | 23.9 | 0.13±0.02ml |



A-502 SERIES



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage Lotion/Spray |
|----------|-----------|-----------|--------------------|-------------|---------------------|
| 40ml | 117.0 | 87.6 | 56.0 | 30.4 | 0.2ml/0.13±0.02ml |
| 50ml | 134.0 | 104.7 | 73.0 | 30.4 | 0.2ml/0.13±0.02ml |
| 60ml | 151.4 | 122.2 | 90.0 | 30.4 | 0.2ml/0.13±0.02ml |

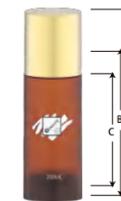
Actuator Options.



| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Pump | PP |
| Bottle | PP |



A-602 SERIES



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|-------------|
| 150ml | 152.3 | 110.3 | 73 | 55.4 | 1±0.2ml/2ml |
| 200ml | 177.1 | 135.1 | 97 | 55.4 | 1±0.2ml/2ml |
| 250ml | 202.1 | 160.1 | 120 | 55.4 | 1±0.2ml/2ml |

| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Closure | PP |
| Bottle | PP |



A-506 SERIES



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|-------------|
| 15ml | 104.7 | 77.2 | 45 | 24.5 | 0.13±0.02ml |
| 30ml | 144.6 | 117.1 | 92.5 | 24.5 | 0.13±0.02ml |

| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Pump | PP |
| Bottle | PP |



A-605 SERIES



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|----------|
| 30ml | 81.6 | 43.9 | 35.5 | 49 | 1±0.15ml |
| 50ml | 96.15 | 58.4 | 50 | 49 | 1±0.15ml |
| 100ml | 129.65 | 91.9 | 83.5 | 49 | 1±0.15ml |
| 120ml | 144.2 | 106.4 | 96 | 49 | 1±0.15ml |
| 150ml | 162.75 | 125 | 116.6 | 49 | 1±0.15ml |
| 200ml | 196.2 | 158.5 | 150 | 49 | 1±0.15ml |
| 30ml | 83.5 | 43.9 | 35.5 | 49 | 1±0.15ml |
| 50ml | 98.1 | 58.4 | 50 | 49 | 1±0.15ml |
| 100ml | 131.6 | 91.9 | 83.5 | 49 | 1±0.15ml |
| 120ml | 146.1 | 106.4 | 96 | 49 | 1±0.15ml |
| 150ml | 164.7 | 125 | 116.6 | 49 | 1±0.15ml |
| 200ml | 198.1 | 158.5 | 150 | 49 | 1±0.15ml |

Actuator Options.



| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Closure | PP |
| Bottle | PP |



A-606 SERIES

| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Closure | PP |
| Bottle | PP |



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 15ml | 77.1 | 46.6 | 38.1 | 30.0 | 0.2ml |
| 30ml | 98.3 | 68.55 | 56.3 | 30.0 | 0.2ml |
| 50ml | 124.8 | 94.3 | 85.8 | 30.0 | 0.2ml |

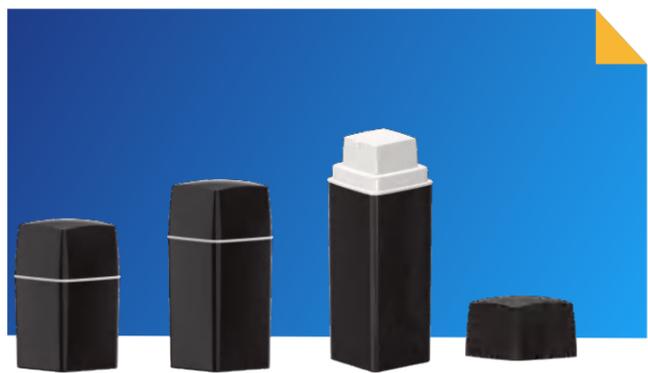


A-608 SERIES

| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Shoulder | PP |
| Bottle | PP |



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 30ml | 93.8 | 58.9 | 46.7 | 37.0 | 0.2ml |
| 50ml | 118 | 83.1 | 70.9 | 37.0 | 0.2ml |
| 75ml | 148 | 113.1 | 100.9 | 37.0 | 0.2ml |
| 100ml | 170 | 135.1 | 122.9 | 37.0 | 0.2ml |

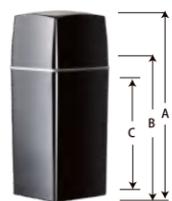


A-607 SERIES

Actuator Options.



| Part | Material |
|--------------|----------|
| Cap | PP |
| Actuator | PP |
| Shoulder | PP |
| Outer Bottle | PP |
| Inner Bottle | PP |

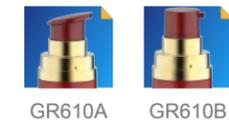


| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 15ml | 77.9 | 37.3 | 30/30x42 | 43.7x43.7 | 0.20ml |
| 30ml | 98.6 | 68 | 30/30x63 | 43.7x43.7 | 0.20ml |
| 50ml | 127 | 96.4 | 30/30x91 | 43.7x43.7 | 0.20ml |

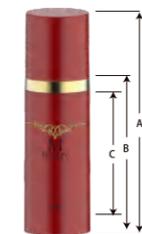


A-610 SERIES

Actuator Options.



| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Shoulder | PP |
| Bottle | PP |



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 50ml | 115.0 | 82.0 | 60.4 | 41.0 | 1.0ml |
| 75ml | 138.2 | 105.2 | 83.7 | 41.0 | 1.0ml |
| 120ml | 180.1 | 147.0 | 125.6 | 41.0 | 1.0ml |



A-609 SERIES

| Part | Material |
|----------|----------|
| Cap | PP |
| Actuator | PP |
| Closure | PP |
| Bottle | PP |

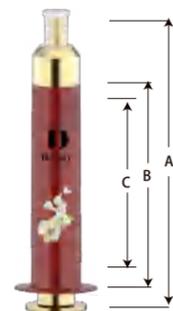


| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 15ml | 79.5 | 51.6 | 40 | 30.0 | 0.20ml |
| 30ml | 109.5 | 81.6 | 70 | 30.0 | 0.20ml |
| 50ml | 146.5 | 118.6 | 100 | 30.0 | 0.20ml |



A-209

| Part | Material |
|--------------|----------|
| Cap | PP |
| Nozzle | PP |
| Inner Bottle | PP |
| Outer Bottle | PP |
| Bottom | PP |



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 10ml | 152.2 | 113 | 70.0 | 25.6 | 0.1ml |

AS AIRLESS

- all in plastic PP
- airless dispensing system
- small capacity
- snap on



A-202 SERIES

Actuator Options.



| Part | Material |
|----------|----------|
| Cap | Metal/PP |
| Actuator | PP |
| Shoulder | Metal |
| Bottle | AS |
| Base | Metal |

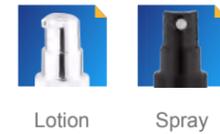


| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage Lotion/Spray |
|----------|-----------|-----------|--------------------|-------------|---------------------|
| 15ml | 102.4 | 68.8 | 16.5 | 33.4 | 0.20ml/0.12ml |
| 30ml | 125.4 | 91.8 | 39.5 | 33.4 | 0.20ml/0.12ml |
| 50ml | 161.3 | 127.7 | 75.4 | 33.4 | 0.20ml/0.12ml |
| 80ml | 153.1 | 121.6 | 69.5 | 40.9 | 0.20ml/0.12ml |
| 100ml | 174.9 | 143.4 | 91.1 | 40.9 | 0.20ml/0.12ml |
| 120ml | 194.7 | 163.2 | 110.9 | 40.9 | 0.20ml/0.12ml |



A-202 SERIES

Actuator Options.



| Part | Material |
|----------|--------------|
| Cap | AS |
| Actuator | PP |
| Closure | PP&Metal |
| Bottle | AS |
| Base | PP&Metal/ABS |



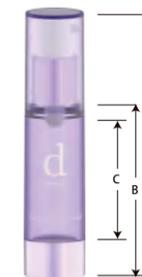
| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage Lotion/Spray |
|----------|-------------|-------------|--------------------|-------------|---------------------|
| 15ml | 95.5/100.9 | 63.6/69 | 16.5 | 33.4 | 0.20ml/0.12ml |
| 30ml | 118.5/123.9 | 86.6/92 | 39.5 | 33.4 | 0.20ml/0.12ml |
| 50ml | 154.1/159.8 | 122.5/127.9 | 75.4 | 33.4 | 0.20ml/0.12ml |



A-203 SERIES



| Part | Material |
|----------|-------------|
| Cap | AS/ABS |
| Actuator | PP&Metal/PP |
| Closure | ABS |
| Bottle | AS |
| Base | ABS |



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 15ml | 102.0 | 73.5 | 31.0 | 26.5 | 0.20ml |
| 20ml | 115.0 | 86.5 | 44.0 | 26.5 | 0.20ml |
| 30ml | 158.0 | 129.3 | 87.0 | 26.5 | 0.20ml |
| 35ml | 165.0 | 136.5 | 94.0 | 26.5 | 0.20ml |



A-202 SERIES

Actuator Options.



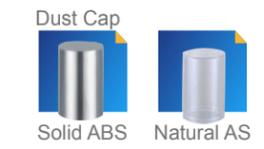
| Part | Material |
|----------|----------|
| Cap | AS |
| Actuator | PP |
| Closure | PP |
| Bottle | AS |
| Base | ABS |



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-------------|-------------|--------------------|-------------|---------------|
| 15ml | 95.5/100.9 | 63.6/69 | 16.5 | 33.4 | 0.20ml/0.12ml |
| 30ml | 118.5/123.9 | 86.6/92 | 39.5 | 33.4 | 0.20ml/0.12ml |
| 50ml | 154.4/159.8 | 122.5/127.9 | 75.4 | 33.4 | 0.20ml/0.12ml |



A-203 SERIES



| Part | Material |
|-----------|-------------|
| Cap | AS/ABS |
| Actuator | PP&Metal/PP |
| Shoulder | ABS |
| Bottle | AS |
| Step Base | ABS |

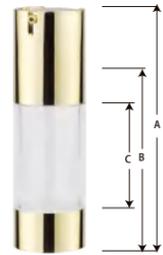


| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 15ml | 106.9 | 74.5 | 31.0 | 26.5 | 0.20ml |
| 20ml | 119.9 | 87.5 | 44.0 | 26.5 | 0.20ml |
| 30ml | 162.7 | 130.3 | 87.0 | 26.5 | 0.20ml |
| 35ml | 169.9 | 137.5 | 94.0 | 26.5 | 0.20ml |



A-202 SERIES

| Part | Material |
|----------------|----------|
| Actuator | ABS |
| Actuator Cover | ABS |
| Bottle | AS |
| Base | ABS |



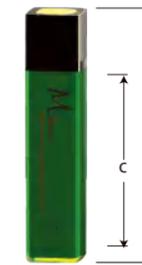
| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-------------|-------------|--------------------|-------------|--------|
| 5ml | 89.2/94.6 | 63.6/69 | 16.5 | 33.4 | 0.20ml |
| 30ml | 112.2/117.5 | 86.6/92 | 39.5 | 33.4 | 0.20ml |
| 50ml | 148.1/153.5 | 122.5/127.9 | 75.4 | 33.4 | 0.20ml |
| 80ml | 147 | 121.6 | 69.5 | 40.9 | 0.20ml |
| 100ml | 168.8 | 143.4 | 91.1 | 40.9 | 0.20ml |
| 120ml | 188.6 | 163.2 | 110.9 | 40.9 | 0.20ml |



A-208 SERIES



| Part | Material |
|--------------|----------|
| Actuator | PP |
| Pump Cap | ABS |
| Shoulder | ABS |
| Outer Bottle | AS |
| Inner Bottle | PP |

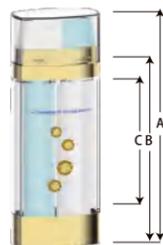


| Capacity | Height(A) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|--------------------|-------------|--------|
| 15ml | 97.2 | 38.0 | 36.7x36.7 | 0.20ml |
| 30ml | 126.9 | 68.0 | 36.7x36.7 | 0.20ml |
| 50ml | 164.9 | 105.0 | 36.7x36.7 | 0.20ml |



A-205 SERIES

| Part | Material |
|--------------|----------|
| Cap | ABS |
| Actuator | PP&Metal |
| Shoulder | ABS |
| Outer Bottle | AS |
| Inner Bottle | PP |



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|---------------|
| 30ml | 134.5 | 107.5 | 73 | 31.6x51.3 | 0.20ml/0.40ml |



A-206 SERIES

| Part | Material |
|--------------|----------|
| Cap | AS |
| Actuator | PP& |
| Shoulder | ABS |
| Outer Bottle | AS |
| Inner Bottle | PP |



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 10ml | 114.7 | 83.8 | 46.2 | 30.2 | 0.20ml |
| 15ml | 146.9 | 116 | 78.7 | 30.2 | 0.20ml |
| 25ml | 143.4 | 112 | 70 | 33.5 | 0.20ml |
| 35ml | 173.3 | 142 | 100 | 33.5 | 0.20ml |



A-218 SERIES

| Part | Material |
|--------------|----------|
| Cap | AS |
| Actuator | Metal&PP |
| Shoulder | ABS |
| Outer Bottle | AS |
| Inner Bottle | PP |



A-210 SERIES



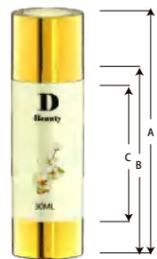
| Part | Material |
|--------------|----------|
| Actuator | PP |
| Pump Cap | ABS |
| Shoulder | ABS |
| Outer Bottle | AS |
| Inner Bottle | PP |
| Base | ABS |

| Part | Material |
|--------------|----------|
| Actuator | PP |
| Shoulder | PP |
| Outer Bottle | AS |
| Inner Bottle | PP |
| Base | ABS |

| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 15ml | 102.6 | 70.1 | 47.5 | 39 | 0.20ml |
| 30ml | 130.8 | 98.3 | 75.5 | 39 | 0.20ml |
| 50ml | 160.9 | 128.4 | 105 | 39 | 0.20ml |
| 80ml | 178.5 | 145.3 | 118.0 | 44.2 | 0.20ml |
| 100ml | 203.8 | 170.6 | 144 | 44.2 | 0.20ml |
| 15ml | 102.6 | 70.1 | 32.5 | 39 | 0.20ml |
| 30ml | 130.8 | 98.3 | 60.6 | 39 | 0.20ml |
| 50ml | 160.9 | 128.4 | 90.6 | 39 | 0.20ml |



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 15ml | 93.9 | 63.5 | 48.5 | 36.6 | 0.20ml |
| 30ml | 123.3 | 92.9 | 77.9 | 36.6 | 0.20ml |
| 50ml | 161.1 | 130.7 | 115.7 | 36.6 | 0.20ml |
| 15ml | 93.9 | 63.5 | 29.5 | 36.6 | 0.20ml |
| 30ml | 123.3 | 92.9 | 58.9 | 36.6 | 0.20ml |
| 50ml | 161.1 | 130.7 | 96.7 | 36.6 | 0.20ml |
| 15ml | 93.9 | 70.1 | 32.5 | 36.6 | 0.20ml |
| 30ml | 122.8 | 98.3 | 60.6 | 36.6 | 0.20ml |
| 50ml | 160.6 | 128.4 | 90.6 | 36.6 | 0.20ml |
| 15ml | 94.9 | 70.1 | 32.5 | 36.6 | 0.20ml |
| 30ml | 124.3 | 98.3 | 60.6 | 36.6 | 0.20ml |
| 50ml | 162.1 | 128.4 | 90.6 | 36.6 | 0.20ml |



A-21 SERIES

Actuator Options

| Part | Material |
|--------------|----------|
| Cap | PP |
| Actuator | ABS |
| Shoulder | ABS |
| Outer Bottle | AS |
| Inner Bottle | PP |

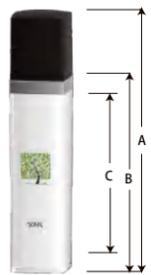
| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 15ml | 86 | 66 | 43 | 40.4 | 0.20ml |
| 30ml | 111 | 90.9 | 68 | 40.4 | 0.20ml |
| 50ml | 144 | 124 | 102 | 40.4 | 0.20ml |





| Part | Material |
|--------------|----------|
| Cap | AS/ABS |
| Actuator | PP |
| Closure | PP& |
| Shoulder | ABS |
| Inner Bottle | AS |
| Outer Bottle | PP |

A-222 SERIES

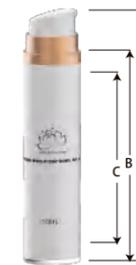


| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 15ml | 96.3 | 64.5 | 40.0x30.0 | 37.0x37.0 | 0.20ml |
| 30ml | 123.6 | 91.8 | 67.0x30.0 | 37.0x37.0 | 0.20ml |
| 50ml | 164.6 | 132.8 | 108.0x30.0 | 37.0x37.0 | 0.20ml |



| Part | Material |
|--------------|----------|
| Cap | PP |
| Actuator | PP |
| Shoulder | PP |
| Outer Bottle | AS |
| Inner Bottle | ABS |

A-227 SERIES



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 15ml | 94.65 | 66.8 | 48.5 | 36.6 | 0.20ml |
| 30ml | 124.05 | 96.2 | 77.9 | 36.6 | 0.20ml |
| 50ml | 161.85 | 133.3 | 115.7 | 36.6 | 0.20ml |



| Part | Material |
|-----------------|----------|
| Decorating ring | ABS |
| Actuator | ABS&PP |
| Outer Bottle | AS |
| Inner Bottle | PP |
| Outer Bottle | ABS |
| Inner Bottle | PP |

A-219 SERIES

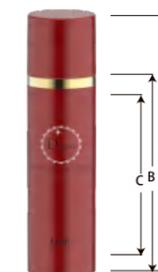


| Capacity | Height(A) | Height(B) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|-------------|--------|
| 30ml | 84.8 | 57 | 49 | 0.20ml |
| 50ml | 103.9 | 76 | 49 | 0.20ml |



| Part | Material |
|--------------|----------|
| Cap | PP/AS |
| Actuator | PP |
| Closure | PP |
| Shoulder | ABS |
| Outer Bottle | AS |
| Inner Bottle | PP |

A-601 SERIES



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|---------|
| 50ml | 110.1 | 81.2 | 57.9 | 48.6 | 1±0.2ml |
| 80ml | 137.3 | 108.4 | 85.1 | 48.6 | 1±0.2ml |
| 120ml | 174.4 | 145.5 | 122.2 | 48.6 | 1±0.2ml |
| 50ml | 118.8 | 81.2 | 57.9 | 48.6 | 1±0.2ml |
| 80ml | 145.3 | 108.4 | 85.1 | 48.6 | 1±0.2ml |
| 120ml | 182.4 | 145.5 | 122.2 | 48.6 | 1±0.2ml |

PUMA AIRLESS

- all in plastic PP
- airless dispensing system
- small capacity
- snap on



A-213 SERIES



| Capacity | Height(A) | Printing Height(B) | Diameter(Φ) | Dosage |
|----------|-----------|--------------------|-------------|--------|
| 15ml | 96.6 | 31.5x77 | 37.8x37.8 | 0.20ml |
| 30ml | 126.1 | 31.5x106 | 37.8x37.8 | 0.20ml |
| 50ml | 164 | 31.5x145 | 37.8x37.8 | 0.20ml |



Nozzle insert

| Part | Material |
|-----------------|----------|
| Decorating ring | ABS |
| Actuator | ABS |
| Outer Bottle | PMMA |
| Inner Bottle | PP |



A-216 SERIES

| Part | Material |
|--------------|------------|
| Cap | METAL&PMMA |
| Actuator | METAL&PP |
| Shoulder | ABS |
| Outer Bottle | PMMA |
| Inner Bottle | PP |

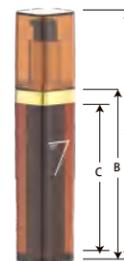


| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 15ml | 112.1 | 80.9 | 15/12x96 | 34.6x31.5 | 0.20ml |
| 30ml | 161.1 | 129.9 | 15/12x96 | 34.6x31.5 | 0.20ml |
| 50ml | 163 | 122.9 | 25/21x91 | 48.1x42.11 | 0.20ml |
| 100ml | 180.5 | 144.1 | 34/31x108 | 60x50 | 0.20ml |
| 15ml | 112.1 | 80.9 | 15/12x96 | 34.6x31.5 | 0.20ml |
| 30ml | 161.1 | 129.9 | 15/12x96 | 34.6x31.5 | 0.20ml |



A-217 SERIES

| Part | Material |
|--------------|----------|
| Cap | PMMA |
| Actuator | Metal&PP |
| Shoulder | ABS |
| Outer Bottle | PMMA |
| Inner Bottle | PP |



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|-------------|--------|
| 15ml | 112.1 | 80.9 | 15/12x96 | 34.6x31.5 | 0.20ml |
| 30ml | 161.1 | 129.9 | 15/12x96 | 34.6x31.5 | 0.20ml |
| 50ml | 163 | 122.9 | 25/21x91 | 48.1x42.1 | 0.20ml |
| 100ml | 180.5 | 144.1 | 34/31x108 | 60x50 | 0.20ml |



| Part | Material |
|--------------|----------|
| Cap | MS |
| Actuator | Metal&PP |
| Shoulder | ABS |
| Outer Bottle | MS |
| Inner Bottle | PP |

A-228 SERIES

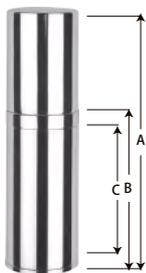


| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) | Dosage |
|----------|-----------|-----------|--------------------|--------------------|--------|
| 15ml | 123.5 | 91.6 | 63.0 | 41.0 | 0.2ml |
| 30ml | 143.5 | 111.5 | 83.0 | 41.0 | 0.2ml |



| Part | Material |
|----------|------------|
| Cap | PP&Metal |
| Actuator | PP&Metal |
| Shoulder | Metal |
| Bottle | PETG&Metal |

A-234 SERIES



| Capacity | Height(A) | Height(B) | Printing Height(C) | Diameter(Φ) |
|----------|-----------|-----------|--------------------|--------------------|
| 15ml | 103.7 | 71.0 | 49.3 | 28.1 |
| 30ml | 116.1 | 83.7 | 59.7 | 35.1 |
| 50ml | 142.7 | 110.3 | 86.3 | 35.1 |
| 15ml | 103.7 | 71.0 | 49.3 | 28.1 |
| 30ml | 116.1 | 83.7 | 59.7 | 35.1 |
| 50ml | 142.7 | 110.3 | 86.3 | 35.1 |