

Specifications for our spray pumps:

- * Strokes to prime: 3-6strokes (may vary with dip tube length and product rheology)
- * Colours for actuators, closures and dustcaps: on your requests
- * The length of dip tubes: on your requests

Fine Mist Spray Pumps FMA series (Screw version)

Closures: 11/415,12/415,13/415,14/410,14/415,15/400,15/415,17/415,18/410,18/415,20/400,

20/410,20/415,22/400,22/410,22/415,24/400, 24/410, 24/415, 28/400, 28/410

Dosages: 0.035ml, 0.05ml, 0.12ml, 0.15ml, 0.2ml, 0.4ml P.P., P.S. and K-Resin Dustcaps



FMA-01(Plastic closures and actuators)
18/415TE (the closure with tamper evident cap)
13/415OC, 15/415OC, 18/415OC,20/415OC
(plastic closures+ PP overcaps)

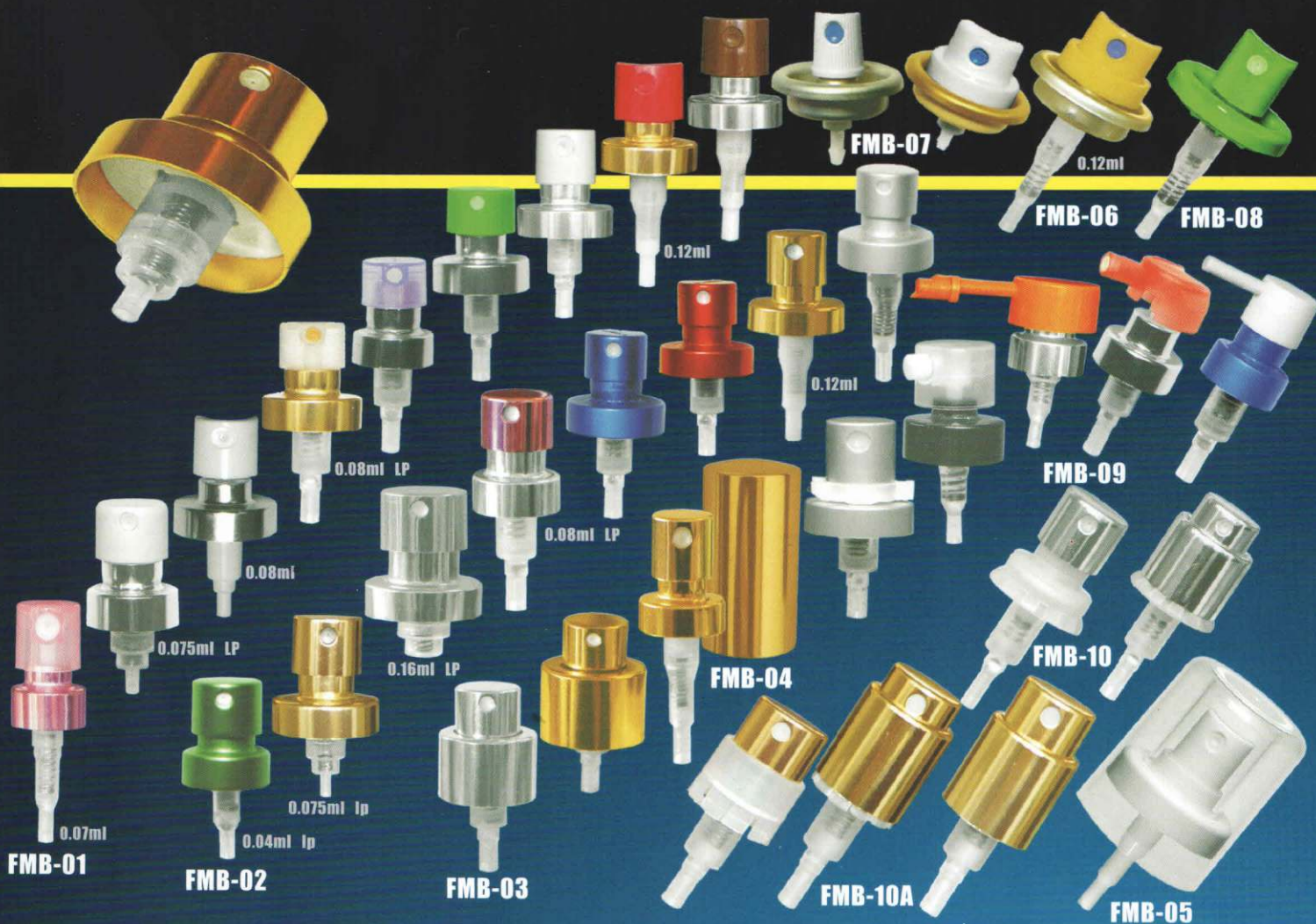
FMA-02(with metal sheathed closures and plastic actuators)

FMA-03(with metal sheathed closures and actuators)

FMA-04(with metal sheathed closures/actuators and metal overcaps)

FMA-05(with metal closures and metal sheathed actuators)





Fine Mist Spray Pumps FMB series (Crimp-on version)

Ferrules: dia.13mm, 15mm, 18mm, 20mm, and others as per your requests.
 Dosages: 0.035ml, 0.04ml (Low Profile), 0.05ml, 0.07ml
 (in two types of the housings), 0.075ml (Low Profile),
 0.08ml, 0.08ml LP (Low Profile), 0.10ml, 0.12ml, 0.16~0.19ml LP (Low Profile)
 Various actuators available for your options

- FMB-01** (with metal ferrules & plastic actuators)
- FMB-02** (with metal ferrules & metal sheathed actuators)
- FMB-03** (with metal ferrules & collars)
- FMB-04** (with metal ferrules & overcaps)
- FMB-05** (Plastic ferrules snap-ons)
- FMB-06** (in aerosol ferrules 1")
- FMB-07** (Aerosol Pump 1")
- FMB-08** (in aerosol plastic ferrule)
- FMB-09** (Actuators with extruding inserts)
- FMB-10** (Crimpleless Spray Pumps)



Cream Spray Pumps (Low Delivery Lotion Pumps)

CRM Series

Metal and Metal Sheathed Closures /
 Ferrules with Metal Sheathed
 Actuators: C-04, C-05

Cream Spray Pumps (Low Delivery Lotion Pumps)

Closures: 15/410, 15/415, 18/410, 18/415, 20/410, 20/415, 22/410, 22/415, 24/410, 24/415, 28/410 Dosages: 0.2ml, 0.4ml, 0.47ml, 0.65ml

CR01 - Solid Plastic with Plastic Dustcaps or without Plastic Dustcaps **CR01D** - 20/410 double-wall with a clip

CR010C - Solid Plastic with PS Overcaps **CR02** - Metal Sheathed Closures with Plastic Actuators

CR020C - Metal Sheathed Closures with Plastic Actuators and PS Overcaps

CR02B - Metal Ferrules with Plastic Actuators



--- Different actuators for your options
--- Actuators: C-01, C-05, and C-06 can be equipped with dustcaps, others could not, but with overcaps.



The actuators: L-21B, L-5B, L-9B, and L-2B are used for dosages: 3ml and 4ml, the closure is 33/400 ribbed.
L-8 and L-18 can be fitted to lotion pumps 38/410 dosage: 6.0ml.



Lotion Pumps

Dosages: 1.0ml, 2.0ml

Closures: 20/415, 24/410, 24/415, 28/400, 28/410, 28/415

Model No. L1 - Solid Plastic

L2 - Metal sheathed Closures+Plastic Actuators

L3 - Electroplated Plastic Closures and Actuators

L5 - Metal Closures+ Electroplated Plastic Actuators

L6 - Metal closures with UV coated Actuators

The actuators: L-5, L-3, L-4, L-11, L-12, L-17, L-2, L-9, L-15, L-7 and L-5A, L-15A, L-9A can be fitted to lotion pumps dosages: 1.0ml and 2.0ml, and L-12 only to be used for dosage: 1.5ml and the closure is only in 28/410.

The actuators: L-5A/15A/16A/9A/19A/20A be used to the lotion pumps in Turn On/Off type.



Lotion Pumps dosages: 3.0ml, 4.0ml and 6.0ml
Model No. L1 - 2B dosage: 3ml 33/400 ribbed
LO - 2B, 21B, 5B, 9B - dosage: 4.0ml 33/400 ribbed
L4 - dosage: 0.65ml 24/400 double-wall with acrylic cover and cap
LO - A/B with PP Cap 89/400 smooth





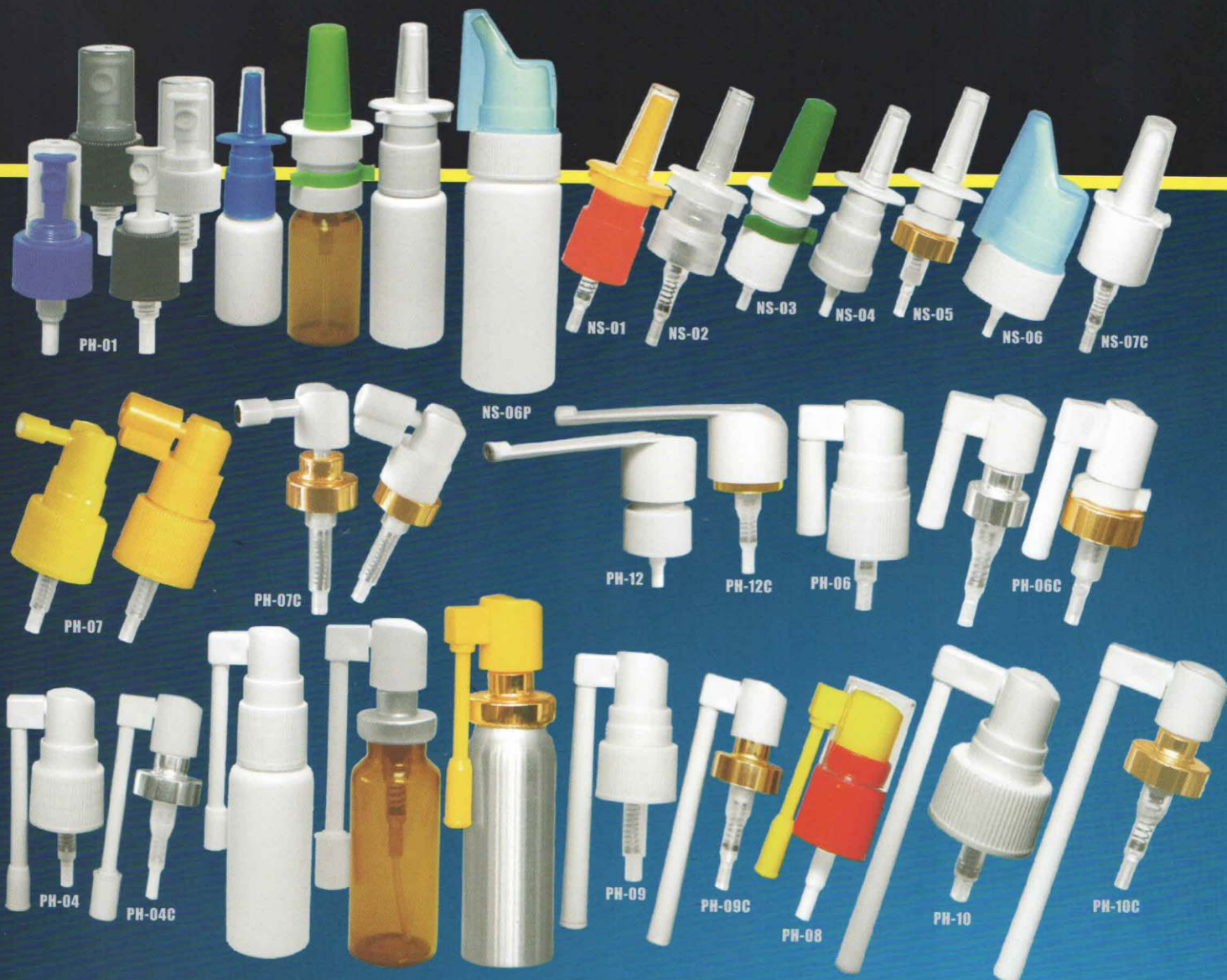
Foaming Pumps model No.FP-40 series in Turn on/off type
 Closure:40/400 dosages:1.2ml and 1.6ml
 Foaming Pumps model No.FP-33 with PP overcap
 Closure:33/400 dosage:0.4ml
 Foaming Pumps model No.UFP-33 without cap
 Closure:33/400 dosage:0.4ml can be sprayed in upside down.
 Foaming Pumps model No.TFP-33 without cap
 Closure:33/400 dosage:0.4ml can be locked by turn on/off system
 - Combination Foaming Spray FPP-60 / 260
 Foaming Pumps FP-33/40 and FP-40 with PET bottles 60ml/260ml

Universal Spray Pumps

The pumps is designed especially for most effective spraying to the right spot as well as to the hard-reach-area at any appropriate angles within the radius of 360 degrees, widely applicable for Ethnic Hair Care, Skin Care and many of Household and Pharmaceutical products.
 Closures: 20/410,20/415,22/410,22/415,24/410,24/415
 Dosage.0.15ml
 P.P., P.S. and K-Resin Dustcaps are available



Universal Spray Pumps



Regular Spray Pumps, Nasal Sprayers, Oral Sprayers

Model No. **PH-01** For glass, leather,...cleaning purpose

Dosage: 1.0ml

Closure size: 20/410, 24/410, 28/400, 28/410

PS or PP Dustcap

Nasal Sprayers

Model No. **NS-01**(screw version)

NS-02(snap-on version)

NS-03(screw version)

NS-04(screw version) with tamper evident cap

NS-05(crimp-on version) Ferrule sizes: dia.13mm, 15mm, 18mm, 20mm

NS-06(30/400 screw version)

NS-07C(crimp-on version) Ferrule sizes: dia.20mm

Dosages. 0.08ml, 0.10ml, 0.12ml

PS, PP Dustcaps are available

Tube (Oral) Sprayers

Dosages. 0.10ml, 0.12ml, 0.15ml

Closure size: 17/415, 18/410, 18/415, 20/410, 20/415,

24/410, 22/410, 22/415, 24/410, 24/415 For closures

17/415, 18/410, 18/415, 20/410, a PS dustcap can be fitted.

Model No. **PH-07**(**PH-07C**) Tube length: 17.5mm,

PH-06(**PH-06C**) Tube length: 25mm ,

PH-12(**PH-12C**) Tube length: 45.5mm ,

PH-04(**PH-04C**) Tube length: 51mm, 54mm, 63.5mm,

PH-09(**PH-09C**) Tube length: 67mm,

PH-08 Tube length: 40.5mm,

PH-10(**PH-10C**) Tube length: 82.7mm



* For Pharmaceutical packing purposes for DIN 18

Fine mist spray pump FMA-18TE dosage: 0.10ml, 0.12ml with PP dustcap

Nasal sprayer NS03-18TE dosage: 0.10ml, 0.12ml with PP dustcap and plastic locking clip

Nasal sprayer NS04-18TE dosage: 0.10ml, 0.12ml with PS dustcap and plastic locking clip

Oral sprayer PH04-18TE dosage: 0.10ml, 0.12ml with plastic tubes

Dropper DR01-18TE with PVC and Rubber bulbs and glass pipettes



Trigger Sprayers

Model No. **SP-1** Dosage: 0.15ml Closure: 20/415,24/410
 Model No. **SP-2** Dosage: 2.5ml Closure: 38/400
 Model No. **SP-3** Dosage: 1.0ml Closures: 24/410 and 28/400
 Model No. **SP-4** Dosage: 1.5ml Closure: 28/400
 Model No. **SP-5** Dosage: 0.75ml Closure: 28/400,28/410

Model No. **SP-6** Dosage: 1.0ml Closure: 28/400,28/410
 Model No. **SP-7** Dosage: 0.50ml Closure: 28/400
 Model No. **SP-7A** Dosage: 0.50ml Closure: 28/400
 Model No. **SP-8** Dosage: 1.70ml Closure: 28/400, 28/410
 Model No. **SP-9 and SP-9L** Dosage: 3.0ml Closure: 28/400



Perfume Atomizers

Dosages. 0.05ml, 0.12ml
 Capacity: 3ml,5ml,6ml,7ml,8ml,10ml,15ml

Combination Spray Units

Delivery/Stroke: appr. 0.05ml, 0.07ml, 0.12ml, 0.15ml

Model No. PB-03 PE bottle 10ml + Crimp-on Spray

Pump dia.13mm + PP overcap

PB-01 PE bottle 10ml + Spray Pump snap-on version

+ Actuator in snap in + PP overcap

PB-01T PE bottle 8.5ml + Spray Pump snap-on version

+ PP overcap

PB-01C PE bottle 8.5ml + Cream Pump in Turn On/Off

type snap-on version

PB-01B PP bottle 7.5ml + Spray Pump snap-on version

with a switch on/off sleeve

PB-08 PP bottle 22ml Neck in snap-on + Spray Pump

snap-on version+ Actuator in snap in + PP overcap

PB-09 PE bottle 20ml Neck in snap-on + Spray Pump

snap-on version + PP overcap

PB-09A PE bottle 20ml Neck in snap-on + Spray Pump

snap-on version + PP overcap.



Dosages: appr. 0.05ml, 0.07ml, 0.12ml

Model No. PB-07 15F(15ml), 20F(20ml), 30F(30ml) **Not For Sale**

PET bottles + Crimp-on Spray Pump dia.15mm

+ Flip Top Cap **Not For Sale**

PB-07 PVC and PE bottles 20ml + Crimp-on Spray Pump dia.15mm

+ PP overcap

CS-15 Card Sprayer 15ml with a flip top guard dosage:0.05ml





Dosages: 0.035ml, 0.05ml, 0.12ml

Model No. PB-02 PP bottle 2ml + Spray Pump in snap-on version + PP overcap

PB-02M with electro-plated overcap **Not For Sale**

PB-02B PP bottle 2ml + Spray Pump in snap-on version + PP overcap with a key ring

PB-02BM with electro-plated Bottle and overcap

PB-02C PP bottle 2ml + Spray Pump in snap-on version + PP overcap

PB-02A PP bottle 2.5ml + Spray Pump in snap-on version without PP overcap

PB-04 PP bottle 4ml,5ml + Spray Pump in screw version 12/415+ PP overcap

PB-05 PP bottle 5ml + Spray Pump in snap-on version dia.12mm + PP overcap

Delivery/Stroke: appr. 0.05ml, 0.12ml

Model No. PB-05S PP bottle 5ml + Spray Pump in screw version 11/410 ribbed+ PP overcap

PB-06 PET bottle 6ml + Spray Pump in snap-on version + PP overcap

PB-06A PP bottle 6ml + Spray Pump in snap-on version + PP overcap

PB-10A PP bottle 7ml + Spray Pump in snap-on version + PP overcap

PB-10S PP bottle 7ml + Spray Pump in screw version 14/415+ PP dustcap

PB-12 PP bottles 8ml,10ml + Spray Pump in screw version 14/410+ PP dustcap

PB-11 PP bottle(blowing plastic) 10ml + Spray Pump in screw version 14/410 ribbed + PP overcap

PB-15T Squeeze Sprayer Plastic LDPE bottle 6ml with PP Turn On/Off cap



PB-02

PB-02M



PB-05S

PB-06

PB-06A

PB-10A

PB-10S

PB-12

PB-11

PB-15T



Droppers and Glass Pipettes

Closures available: 18/400, 18/410, 18/415, 20/400, 20/410 Glass Tubes and Plastic Tubes 48mm, 53mm and 56mm: available for your options Materials of Teats: PVC, Rubber #01, #02, #03 Amber glass bottles with droppers and BR (black phenolic cap ribbed+ natural stem and black brush tip)



Pen Atomizers

Clear and Frosted Glass Tubes can be optioned as per your requirements.
 Model No. **PA-01** Glass Tube 10ml with fine mist spray pump(metal sheathed closure/actuator) in screw version 12/415 dosage:0.05ml, and plastic cap
PA-02 Glass Tube 8ml with fine mist spray pump(metal sheathed closure/actuator)and (solid plastic) in snap-on version dia.11mm /dosage:0.05ml, and plastic cap
PA-03 PP Plastic Tube 8ml,10ml with Clip-Cap and PP dustcap fine mist spray pump(solid plastic) in screw version 14/410 dosage: 0.12ml
PA-04 Glass Tube 4ml~6ml with fine mist spray pump 12/410 (metal sheathed closure+ actuator) and PP dustcap
PA-05 Glass Tube 4ml,5ml with fine mist spray pump 12/410 (solid plastic) and PP dustcap
PA-06 Perfume Sampler Glass Tubes: 1.0ml, 1.5ml, 2.0ml, 3ml, 4ml, 5ml with Plastic Sticks



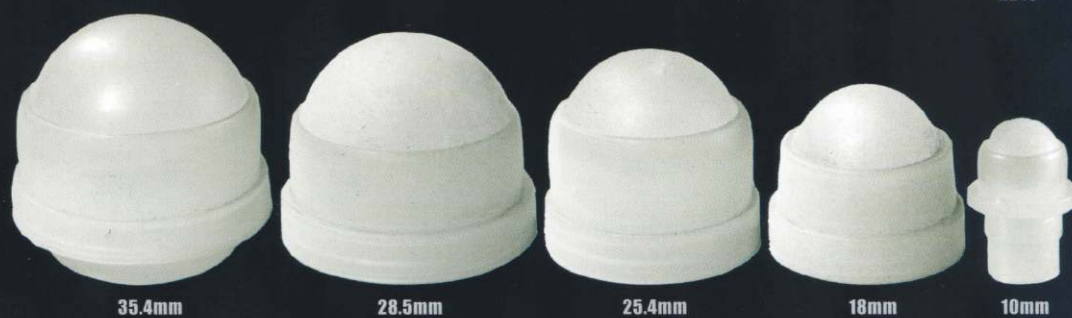


Roll-On Bottles

Plastic Roll-on Balls for Model No. 01- 06 and
A1,A2, A3, A4, RB15, RB-30, RB-18
(Capacities:15ml,18ml,30ml,50ml,75ml,80ml)
Glass Roll-on Balls for Model No.07 20
(Capacities: 1.5ml,3ml,5ml,6ml,8ml,10ml)



Plastic Roll-On Balls



Aluminium Overcaps

Different shapes and colors can be made as per your requirements or samples.
Aluminium Overcaps can be fitted with plastic inner sleeves



Aluminium Screwed Caps

The sizes available: 18-415, 20-410, 22-410, 24-410, 28-400, 30-400, 33-400, 35-400, 38-400, 65-400, 70-400, 83-400, 90-400 or can be made as per your requirements or samples





Disc Caps Model No. **DC-01/DC-01M** 18/415, **DC-02/DC-02M** 20/410, **DC-03/DC-03M** 20/415, **DC-04/DC-04R/DC-04/DC-04M/DC-04P/DC-04T/DC-04E/DC-04S** 24/410, **DC-05/DC-05M/DC-05E** 24/415, Flip Top Caps Model No. **FC-01** 15/415 **FC-02** 24/415 **FC-03/03P** 24/415 **FC-05** 28/410 **FC-07** 20/412 **FC-08** 28/415 **FC-10** 20/410 ribbed

FC-04 (snap-on) dia.28mm **FC-06** (snap-on) dia.23mm Button Flip Top Cap Model No. **BFC-01** dia.21mm, **C-01/ 04** 20mm, **DC-06** snap-on dia.20mm, **FC-06/09** dia.23mm Tamper Evident Cap ribbed Model No. **TE-01** 28/410 **TE-02** 40/400 **TE-03** 18/410 Child Resistant Cap ribbed Model No. **CL-01** 20/400 Any plastic caps can be made as per your requests or samples. (**C-09** 20mm, **C-09U** 20mm, **C-10U** 15mm, **C-11** 15mm, **C-12** 15mm, **DDC-01** 22/400 in double-wall, **DDC-01M** 22/400 metal sheathed double-wall are Not For Sale)



Plastic Lip Balm Containers

Model No. **LB-01**(PP Bottle+ Cap) **LB-02**(PP Bottle+ Cap) **LB-03**(PP Bottle+ Cap) **LB-02F**(PP Bottle+Flip top cap) **LB-04**(PP Bottle+Cap) **LB-05**(oval PP Bottle+Cap) **LB-06**(PP Bottle+Cap) **LB-07**(mini PP Bottle+Cap) 2grs

