



2014 Edition



Delivering solutions, shaping the future.

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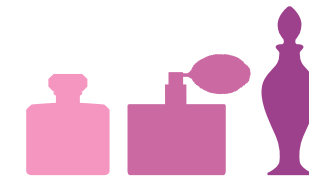
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FRAGRANCE PRESTIGE



Delivering solutions, shaping the future.

Aptar 
beauty + home

Bulb atomizer

Perfuming becomes a timeless art.

100 %
CONTROL



For your products

- ◆ Eau de toilette
- ◆ Eau de parfum
- ◆ Extract
- ◆ Elixir

Aesthetic extras

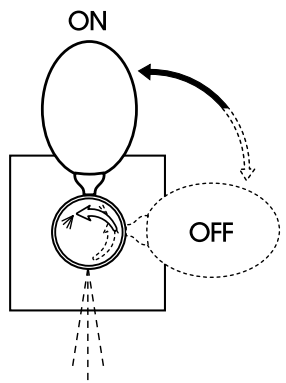
- ◆ A product for a timeless perfuming gesture

Consumer extras

- ◆ Perfect leakproofness thanks to a locking system
- ◆ Complete olfactory neutrality

Packaging development extras

- ◆ The bulb atomizer can be assembled onto the bottle directly on the production line
- ◆ 2 bottles diameters with a standard neck : 15 FEA and Europa 4



TO OPEN
Twist the pump to the left

TO LOCK AND GUARANTEE
LEAKPROOFNESS
Twist the pump back to the right



Product range

Fixation	Collar and actuator color	Bulb fabric color	Collar height (mm)	Couture option
15 FEA Seal Tight	Gold/silver	Black	Standard 14 mm option 13 / 13.5 / 14.5	Flexible standard length 200 mm
Europa 4 screw	Gold/silver	Black	18 (rolled edge)	

mm : millimeters

Product options

- ◆ All anodizing colors available on request
- ◆ Bulb fabric color on request
- ◆ Microtube: PP or crystal

Eternelle Couture

The Haute Couture version of the atomizer.



La Garde Robe

100 %
CONTROL



The perfume atomizer becomes a fashion accessory.

For your products

- ◆ Eau de toilette
- ◆ Eau de parfum
- ◆ Extrait
- ◆ Elixir

Aesthetic extras

- ◆ Colors on request: all anodizing and fabric colors
- ◆ Patterns: models shown available quickly; any request for new patterns will be reviewed

Consumer extras

- ◆ Perfect leakproofness thanks to a locking system
- ◆ Complete olfactory neutrality

Packaging development extras

- ◆ The bulb atomizer can be assembled onto the bottle directly on the production line
- ◆ 2 bottles diameters with a standard neck : 15 FEA and Europa 4



La petite

100 %
CONTROL



Discreet. Elegant. Epured.
Simply chic.

For your products

- ◆ Eau de toilette
- ◆ Eau de parfum
- ◆ Eau de cologne

Aesthetic extras

- ◆ Ultra compact pump outside and invisible inside
- ◆ Pump body invisible

Consumer extras

- ◆ Maximum spray quality
- ◆ Comfortable actuation: linear and soft

Packaging development extras

- ◆ Crimp, screw and Seal Tight fixations
- ◆ Excellent compatibility: no metal in contact with the fragrance
- ◆ Excellent product sturdiness



Product range

Crimp fixation

Diameter FEA	Dosage (µl)	Actuator diameter (mm)	Several actuator heights available. SH* from:	Stroke (mm)	Body diameter (mm)	
13	70	12.3	10.9**	2.6	7.6	
	70	12.5	11.9			
	100	12.5	12.7	3.4		
15	70	12.3	10.9**	2.6		7.6
	70	13	11.9			
	100	13	12.7	3.4		

Seal Tight fixation

Diameter FEA	Dosage (µl)	Actuator diameter (mm)	SH* (mm) from:	Stroke (mm)	Body diameter (mm)
13	70	12.5	12.3	2.6	7.6
	100	12.5	13.9	3.4	
15	70	13	12.3	2.6	
	100	13	13.9	3.4	

Screw fixation

Diameter FEA	Dosage (µl)	Actuator diameter (mm)	Several actuator heights available. SH* from:	Stroke (mm)	Body diameter (mm)
Europa 4	70	12.3	10.9**	2.6	7.6
	70	12.5	11.9		
	100	12.5	12.7	3.4	

** Stacking to be consistently checked on client's packaging - *SH: Stack Height / µl: microliters / mm: millimeters

Available in June 2014

Product options

- ◆ Standard metal colors: gold and glossy silver
- ◆ Microtube: PP or crystal
- ◆ All anodizing colors available on request



Precious

100 %
CONTROL

A spray that combines gentle actuation with continuous actuation diffusion.



For your products

- ◆ Eau de toilette
- ◆ Eau de parfum

Aesthetic extras

- ◆ A dual feeling of softness: the spray is actuated by very light finger pressure, then the perfume is released gradually in a soft mist

Consumer extras

- ◆ A new more sensual, enveloping movement

Packaging development extras

- ◆ Sensea cartridge, result of VP4 technology
- ◆ A gentle spray in the “continuous spray” category: minimal actuation effort
- ◆ Spray lasts for 3 times longer than the VP4
- ◆ Extreme spray homogeneity combined with fine particles



Product range

Sensea cartridge + LTS actuator

Crimp fixation

Diameter	Dosage (µl)	Actuator	Actuator diameter (mm)	SH* (mm)	HUG* (mm)	Stroke (mm)
CS15	70	108/087 LTS	13	13	17.7	2.7
	100	108/087 LTS		14	21.5	3.7
	100	108A/104 LTS		15.7	21.5	3.7
	140	108A/104 LTS		16.8	21.5	4.8

Other possible neck diameters FEA 17, 18, 20: reviewed on request

Seal Tight fixation

Diameter	Dosage (µl)	Actuator	Actuator diameter (mm)	SH* (mm)	HUG* (mm)	Stroke (mm)
ST15	70	108A/096 LTS	13	14.4	17.7	2.5
	90	108A/096 LTS		15.2	21.5	3.3

*SH: Stack Height / *HUG: Height Under Gasket / µl: microliters / mm: millimeters

Screw fixation

Diameter	Dosage (µl)	Actuator	Actuator diameter (mm)	SH* (mm)	HUG* (mm)	Stroke (mm)
Europa 4	70	108/087 LTS	13	13	17.7	2.7
	140	108A/104 LTS		16.8	21.5	4.8
CV15	70	108/087 LTS		13	17.7	2.7
	100	108A/104 LTS		15.7	21.5	3.7
	140	108A/104 LTS		16.8	21.5	4.8

Other Screw neck diameters: reviewed on request

Product options

- ◆ Contact us for other actuator diameters.



Sensea

100 %
CONTROL



The perfect balance between gentle actuation and spray quality.

For your products

- ◆ Eau de toilette
- ◆ Eau de parfum

Aesthetic extras

- ◆ Classic design

Consumer extras

- ◆ Gentle pump (1.5kg)
- ◆ Regular and comfortable actuation
- ◆ Fine and wide spray (60°)

Packaging development extras

- ◆ Available in crimp, snap-on and screw fixations
- ◆ Based on the technology of the proven VP4 pump
- ◆ A gentle actuation solution for specific packaging



Product range

Crimp fixation

Diameter FEA	Dosage (µl)	Actuator	Actuator diameter (mm)	SH* (mm)	HUG* (mm)	Stroke (mm)
13	70	118A/100 HDS	12	14.4	17.7	2.7
	100	118A/100 HDS		15.4	21.5	3.7
	140	118A/100 HDS		16.5	21.5	4.8
15	70	108A/104HDS	13	14.65	17.7	2.7
	100	108A/104HDS		15.7	21.5	3.7
		108C/104HDS		16.2		
	140	108A/104HDS		16.8		4.8
		108C/104HDS		17.4		

◆ Other possible neck diameters FEA 17, 18, 20 available in the 70, 100 and 140 dosages with 12 or 13 actuator diameters

Seal Tight fixation

Diameter FEA	Dosage (µl)	Actuator	Actuator diameter (mm)	SH* (mm)	HUG* (mm)	Stroke (mm)
15	70	108A/096HDS	13	14.4	17.7	2.5
	100	108A/096HDS		15.2	21.5	3.3
	140	108C/104HDS		17.1		4.6

*SH: Stack Height / *HUG: Height Under Gasket / µl: microliters / mm: millimeters

Screw fixation

Diameter	Dosage (µl)	Actuator	Actuator diameter (mm)	SH* (mm)	HUG* (mm)	Stroke (mm)
CV13	70	118A/100 HDS	12	14.4	17.7	2.7
Europa 4	70	118A/100 HDS	12	14.4	17.7	2.7
	140	118A/100 HDS	12	16.5	21.5	4.8
		108A/104 HDS	13	16.8		
CV 15	70	108A/104 HDS	13	14.65	17.7	2.7
		108A/104 HDS		15.7	21.5	3.7
	100	108C/104 HDS		16.2		
		108A/104 HDS		16.8		4.8
	140	108C/104 HDS		17.4		

◆ Other available neck diameters: GCMI 18, 20 (in dosage 70 and 140) available with 12 and 13 actuator diameters

Product options

- ◆ PP diptube or crystal
- ◆ High Definition Spray actuators, combined with the VP4 pump, allow for the atomizing of water-based perfumes while offering a spray quality equivalent to alcohol-based perfumes.



VP4 Seal Tight

100 %
CONTROL



Present on the greatest perfumes, it is the world's top-selling perfume pump.

For your products

- ◆ Eau de toilette
- ◆ Eau de parfum
- ◆ Purse spray
- ◆ Cologne and Deodorant

Aesthetic extras

- ◆ Low-profile pump
- ◆ Classic proportions

Consumer extras

- ◆ Fine spray
- ◆ Classic design

Packaging development extras

- ◆ Many dosages and fixations
- ◆ Proven reliability



ST 13



ST 15



ST 17



ST 18



ST 20



Product range

Seal Tight fixation

Diameter	Dosage (µl)	Actuator	Actuator diameter (mm)	SH* (mm)	HUG* (mm)	Stroke (mm)
13 FEA / 13 GPI	70	148A/075	12.5	13.1	17.7	2.5
15 FEA / 15 GPI	70	108AA/075	13	13.1	17.7	2.5
15 FEA	100	108A/096	13	15.2	21.5	3.3
17	100	208BA/099	15	15.6	21.5	3.3
18	70	208BA/099	15	14.8	17.7	2.5
	140	208C/109	15	17.9	21.5	4.63
20 FEA / 20 GPI	100	608BA/099	17	16	21.5	3.3

*SH: Stack Height / *HUG: Height Under Gasket / µl: microliters / mm: millimeters

- ◆ 30° / 60° insert
- ◆ Reinforced resistance collar available on request

- ◆ High Definition Spray actuator 108A/096 HDS available for VP4ST 15/100 to spray water-based perfume

VP4E Seal Tight

Diameter	Dosage (µl)	Actuator	Actuator diameter (mm)	SH* (mm)	HUG* (mm)	Stroke (mm)
13 FEA	70	148A/075	12.5	13	17.7	2.4
15 FEA	70	108AA/075	13	13	17.7	2.4
	100	108A/096	13	15.2	17.4	3.5

*SH: Stack Height / *HUG: Height Under Gasket / µl: microliters / mm: millimeters

- ◆ 30° / 60° insert

- ◆ Product range available in Europe



ST 15

Packaging development extras

- ◆ Pump cartridge can be easily integrated into specific packaging
- ◆ Filling optimized by a stepped body and the ST collar with 3 hooks



VP4 So Chic

100 %
CONTROL



Dress up your fragrance with a touch of fashion.

For your products

- ◆ Eau de toilette
- ◆ Eau de parfum

Aesthetic extras

- ◆ The first standard pump adapted to easily place an accessory

Consumer extras

- ◆ The option to accessorize your bottle
- ◆ A practical solution for special editions

Packaging development extras

- ◆ The collar is suitable for VP4 Seal Tight or 15 FEA diameter crimp fixations

Product range

Fixation	Dosage (µl)	Actuator diameter	Actuator	SH*	Collar	Cap	Recommended neck diameter
ST 15 FEA	70	Actuator metal diam 13	108A/096	14.4	Collar H 14 mm, smooth or low-profile bead version	A metal cap with insert for smooth collar available Delivered separately	7.1 ± 0,3 mm
	100		108A/096	15.2			
CS 15 FEA	70		108A/104	14.65	Collar H 14 mm, Smooth version (delivered separately)		
	100		108A/104	15.7			

*SH: Stack Height / µl: microliters / mm: millimeters

Product options

- ◆ Tesem Cap available



Rainbow



Plastic VP4 Seal Tight version available in any color.

Aesthetic extras

- ◆ Mat or glossy version available
- ◆ Hidden injection point and invisible molding line
- ◆ A greater radius than metal versions
- ◆ Glossy natural or colored PP cap mass height 25.4 mm, diameter 20.3 mm - Delivered assembled

Packaging development extras

- ◆ For 15 FEA neck, option to deliver a complete pump and standard cap set ready to be snapped onto bottle



Matte black



Matte pink



Pump + cap
Delivery position

Product range

Fixation	Dosage (µl)	Actuator	Actuator diameter (mm)	SH* (mm)	HUG* (mm)	Collar	PP Cap
ST 13 FEA	70	149	12.5	13.2	17.7	Ht 13.5 with low-profile bead	No
ST 15 FEA	70	139	13	13.2	17.7	Ht 13.5 with low-profile bead	Yes (glossy) delivered assembled

*SH: Stack Height / *HUG: Height Under Gasket / µl: microliters / mm: millimeters

Product options

- ◆ Optional pre-mounted cap





VP4 Crimp

100 %
CONTROL



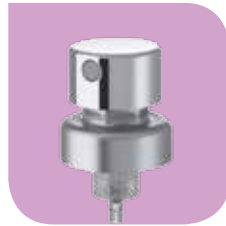
A complete range for all your projects.



13 FEA



15 FEA



17 FEA



18 FEA



20 FEA

- ◆ High Definition Spray actuators 108A/104 HDS and 118A/100 HDS available to spray water-based perfumes
- ◆ 30° / 60° insert

Product range

Diameter	Dosage (µl)	Recommended actuator	Recommended actuator diameter (mm)	SH* (mm)	HUG* (mm)	Stroke (mm)
13	70	Metal 118/087	12	13	17.7	2.7
		Plastic 119/087**	12	13.2		
	100	Metal 118/087	12	14	21.5	3.7
		Metal 118A/100	12	15.4		
		Plastic 119/087	12	14.2		
		Plastic 109/085	13	13.8		
		Plastic 109A/101	13	15.5		
	140	Metal 118A/100	12	16.5	21.5	4.8
		Plastic 109A/101	13	16.6		
15	70	Metal 108/087	13	13	17.7	2.7
		Plastic 109/085	13	12.8		
		Plastic 119/087**	12	13.2		
	100	Metal 108/087	13	14	21.5	3.7
		Metal 108A/104	13	15.7		
		Plastic 119/087	12	14.2		
		Plastic 109/085	13	13.8		
		Plastic 109A/101	13	15.5		
	140	Metal 108A/104	13	16.8	21.5	4.8
		Plastic 109A/101	13	16.6		
17	70	Metal 208/087	15	13	17.7	2.7
		Plastic 219/087**	15	13.2		
	100	Metal 208/087	15	14	21.5	3.7
		Metal 208B/099	15	15.3		
		Plastic 209A/101	15	15.4		
		Plastic 219/087**	15	14.2		
	140	Metal 208B/099	15	16.4	21.5	4.8
		Plastic 209A/101	15	16.5		
18	70	Metal 208/087	15	13	17.7	2.7
		Plastic 219/087**	15	13.2		
	100	Metal 208/087	15	14	21.5	3.7
		Metal 208B/099	15	15.3		
		Plastic 219/087**	15	14.2		
		Plastic 209A/101	15	15.4		
	140	Metal 208B/099	15	16.4	21.5	4.8
		Plastic 209A/101	15	16.5		
20	70	Metal 608/087	17	13	17.7	2.7
		Plastic 219/087**	15	13.2		
	100	Metal 608/087	17	14	21.5	3.7
		Metal 608B/099	17	15.3		
		Plastic 219/087**	15	14.2		
		Plastic 209A/101	15	15.4		
	140	Metal 608B/099	17	16.4	21.5	4.8
		Plastic 209A/101	15	16.5		

*SH: Stack Height / *HUG: Height Under Gasket / µl: microliters / mm: millimeters / **Plastic overcapped actuator

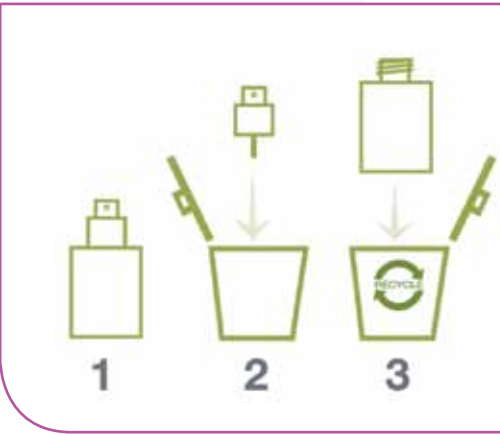
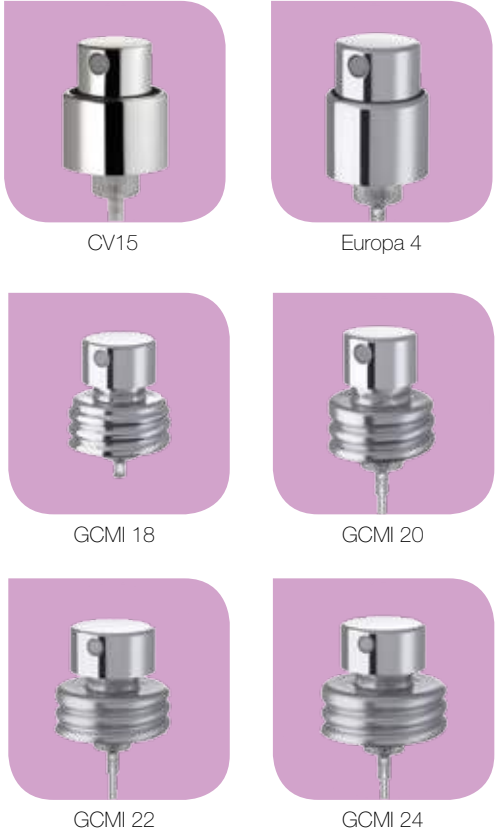


VP4 Screw

100 %
CONTROL



The screw version of the VP4 is available in every diameter to refill your bottle.



Your customers will be able to separately throw away the **aluminum** pump and the **glass** bottle.

The glass bottle can therefore be recycled

Product range

Diameter	Dosage (µl)	Recommended actuator	Actuator diameter (mm)	SH* (mm)	HUG* (mm)	Existing collar height (mm)
CV 13	70	Metal 118/087	12	13	17.7	12/16.5
CV 15	70	Metal 108/087	13	13	17.7	12 - 18
		Plastic 109/085	13	13	17.7	-
	100	Metal 108/087	13	14	21.5	-
		Metal 108A/104	13	15.7	21.5	-
Europa 4	70	Metal 118/087	12	13	17.7	-
		Metal 108/087	13	13		12.5/13.5/15.4/17.2
	140	Metal 118/087	12	15.1	21.5	-
		Metal 118A/100	12	16.5	21.5	-
		Metal 108/087	13	15.1	21.5	12.5/13.5/15.4/17.2
		Metal 108A/104	13	16.8	21.5	12.5/13.5/15.4/17.2
GCMi 18	70	Metal 208/087	15	13	17.7	14
		Plastic 209A/101	15	14.3	17.7	
		Metal 208B/099	15	14.2	17.7	
		Metal 208C/117	15	16	17.7	
	140	Metal 208/087	15	15.1	21.5	
		Metal 208B/099	15	16.4	21.5	
		Metal 208C/117	15	18.1	21.5	
GCMi 20	70	Metal 208/087	15	13	17.7	-
		Plastic 209A/101	15	14.4	17.7	-
	140	Plastic 209A/101	15	16.5	21.5	-
		Metal 208/087	15	15.1		-
		Metal 208B/099	15	16.4		-
		Metal 208C/117	15	18.1		-
		Metal 608/087	17	15.1		-
		Metal 608B/099	17	16.4		-
						-
						-
GCMi 22	70	Metal 208/087	15	13	17.7	15.1
		Plastic 209A/101		14.4		15.1
		Metal 608/087	17	13		-
GCMi 24	70	608/087	17	13	17.7	-
	140	608B/099	17	16.4	21.5	-

*SH: Stack Height / *HUG: Height Under Gasket / µl: microliters / mm: millimeters

◆ High Definition Spray actuators 108A/104 HDS and 118A/100 HDS available to spray water-based perfumes

◆ 30° / 60° insert





VP Compact

Ultra low-profile version of the VP4.
Only in a crimp version.

100 %
CONTROL



13 FEA



15 FEA



17 FEA



18 FEA



20 FEA

Product range

Diameter FEA	Dosage (µl)	Recommended actuator	Actuator diameter (mm)	SH* (mm)	HUG* (mm)	Stroke (mm)
13	70	118/075	12	11.9	18.8	2.7
	100	118/075	12	12.6	22.6	3.5
	130	118/075	12	13.5	22.6	4.4
15	70	118/075	12	11.9	18.8	2.7
		108/075	13			
	100	118/075	12	12.6	22.6	3.5
		108/075	13			
	130	118/075	12	13.5	22.6	4.4
		108/075	13			
17	70	108/075	13	11.9	18.8	2.7
		208/075	15			
		608/075	17			
	100	108/075	13	12.6	22.6	3.5
		208/075	15			
		608/075	17			
	130	108/075	13	13.5	22.6	4.4
		208/075	15			
		608/075	17			
18	70	108/075	13	11.9	18.8	2.7
		208/075	15			
		608/075	17			
	100	108/075	13	12.6	22.6	3.5
		208/075	15			
		608/075	17			
	130	108/075	13	13.5	22.6	4.4
		208/075	15			
		608/075	17			
20	70	108/075	13	11.9	18.8	2.7
		208/075	15			
		608/075	17			
	100	108/075	13	12.6	22.6	3.5
		208/075	15			
		608/075	17			
	130	108/075	13	13.5	22.6	4.4
		208/075	15			
		608/075	17			

*SH: Stack Height / *HUG: Height Under Gasket / µl: microliters / mm: millimeters



Replica

100 %
CONTROL



A mini pump for small versions of larger perfumes.

For your products

- ◆ Eau de toilette
- ◆ Eau de parfum
- ◆ Miniature
- ◆ Purse spray
- ◆ Small promotional bottle

Aesthetic extras

- ◆ Miniature pump in both diameter and height
- ◆ Transparent body

Consumer extras

- ◆ Fine spray
- ◆ Classic mini design

Packaging development extras

- ◆ Many fixations available
- ◆ The only 11 mm crimp fixation on the market



Product range

Fixation/Diameter	Dosage (µl)	Actuator	Actuator diameter (mm)	SH* (mm)	HUG* (mm)	Stroke (mm)
Snap-on BE 10.6 plastic	50	539 PP	9	13.5	18.4	3.3
Seal Tight ST 10.6 metal	50	538 metal	9.6	13.2	19.2	
Crimp 11 FEA	50	539 metal	9.6	13.3	19.1	
Screw CV 11 plastic	50	539 PP	9	12.85	19.1	
Screw CV 11 metal	50	538 metal	9.6	13.3	19.1	
Screw Europa 3	50	538 metal	9.6	13.6	18.8	

*SH: Stack Height / *HUG: Height Under Gasket / µl: microliters / mm: millimeters

Product options

- ◆ Standard metal colors: gold and glossy silver
- ◆ All anodizing colors available on request
- ◆ Microtube: PP or crystal
- ◆ Insert: black, natural or specific

Accessories

- ◆ Metal cap for CV 11 metal and ST 10,6
- ◆ Plastic cap for CV 11 plastic

Replica Stilo

- ◆ Complete purse spray in refillable or non-refillable versions
- ◆ Drawn glass bottle:
 - contents 7.5 ml or 10 ml
 - see Gift + Promotion catalogue



Metal Collars

Metal collars for crimp pumps.

For your products

- ◆ All spray pumps with a crimp fixation

Aesthetic extras

- ◆ The perfect anodizing finishing in gold, silver or personalized, is identical to the actuator

Packaging development extras

- ◆ Many diameters and heights as standard
- ◆ Standard beads for cap snapping
- ◆ The same mini maxi color pallet as the actuator

Product range

For crimp pumps	13 FEA	15 FEA	17 FEA	18 FEA	20 FEA
Smooth collar	Height available from 12 mm at every 0.5mm. Please contact us to approve the size of the collar depending on the pump selected				
Collar with low bead					



Color Code

A new spray with a whole range of color options.



For your products

- ♦ Eau de toilette
- ♦ Eau de parfum

Aesthetic extras

- ♦ Snap-on pump with plastic finishings
- ♦ Total harmony with your bottle design thanks to a complete set (pump + collar + actuator + diptube)

Consumer extras

- ♦ Mixed element colors (actuator, insert, collar, diptube)

Packaging development extras

- ♦ The well-known 31MS cartridge
- ♦ Easy snap-on thanks to a new Pushover fixation on a plastic collar
- ♦ Standard colors: white, black and natural

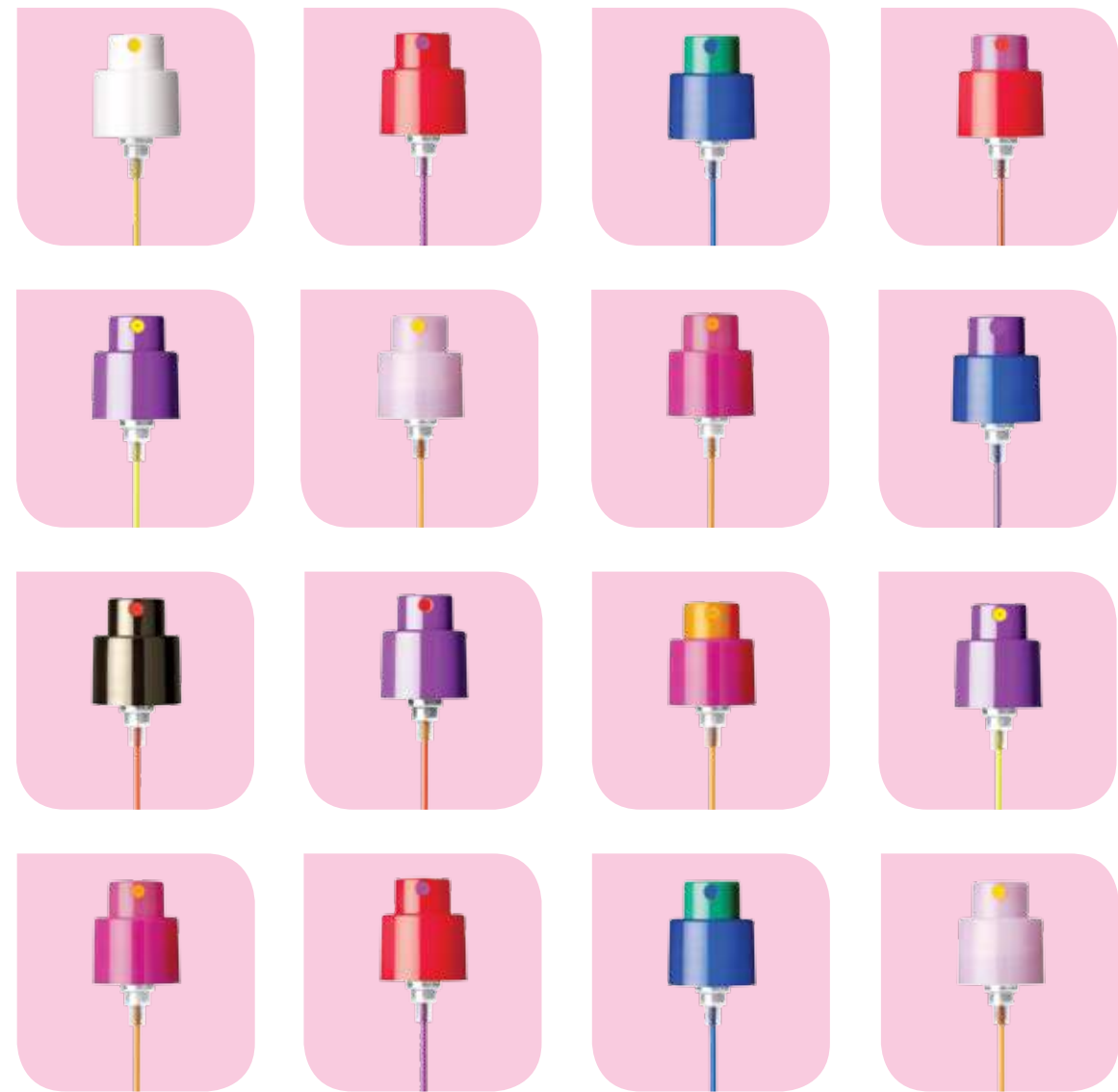


Product range

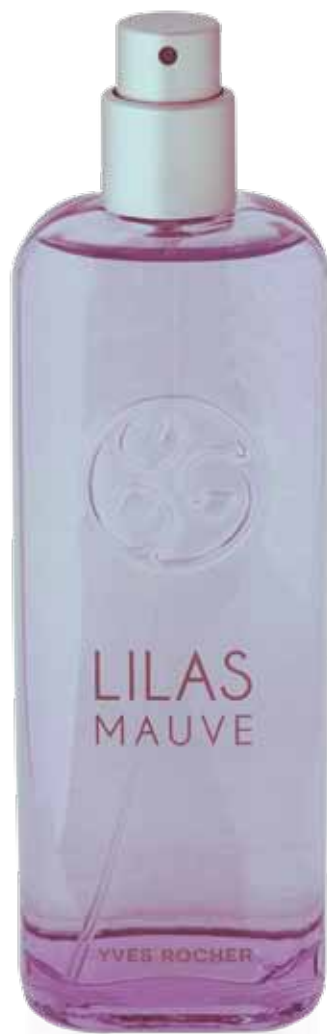
Snap-on fixation

Diameter	Dosage (µl)	Actuator (mm)	SH* (mm)	Actuator diameter (mm)	Collars height (mm)
15 FEA	80	A03L	16.55	13	15.05 (neck height = 6.9 to 7.9 mm)
15 GPI					17.05 (neck height = 8.9 to 9.9 mm)

*SH: Stack Height / µl: microliters / mm: millimeters



Essencia



A quality spray for an affordable perfume pump.

For your products

- ◆ Eau de toilette
- ◆ Eau de parfum

Aesthetic extras

- ◆ Discreet pump body (diameter: 7.6 mm)

Consumer extras

- ◆ Excellent spray quality

Packaging development extras

- ◆ Many dosages available (70, 100 and 130 microliters)
- ◆ Excellent compatibility (ferrule and spring do not come into contact with the fragrance)
- ◆ Many crimp fixations and Pushover
- ◆ Attractive climbing ferrule for packs without colleret



15 FEA



15 FEA



MSPP



MSPP3



Product range

Crimp fixation

Diameter FEA	Dosage (µl)	Recommended actuator	Actuator diameter (mm)	SH* (mm)	HUG* (mm)
13 (30 MS 135)	70	Metal D7	12.3	13.5	17.8
		Metal V6	13.3	14.7	
		Plastic V6	13	14.4	
	100	Metal D7	12.3	14.3	
		Metal V6	13.3	15.6	
		Plastic V6	13	15.2	
15 (30 MS 155)	70	Metal D7	12.3	13.5	
		Metal V6	13.3	14.7	
		Plastic V6	13	14.4	
	100	Metal D7	12.3	14.3	
		Metal V6	13.3	15.6	
		Plastic V6	13	15.2	
	130	Metal A8S	12.3	15.3	
		Metal E8	13.3	16.2	
		Plastic E8	13	15.9	
18 (30 MS 185)	130	Metal E8	13.3	16.2	
20 (30 MS 200)		Plastic E8	13	15.9	
		Metal E9	14.8	16.2	
		Plastic E9	14.5	15.9	

Pushover fixation

Diameter FEA	Dosage (µl)	Recommended actuator	Actuator diameter (mm)	SH* (mm)	HUG* (mm)
15 (30 MSPP 155)	70	Metal R6	13.3	15.1	17.8
		Plastic R6	13	14.8	
	100	Metal R6	13.3	15.9	
		Plastic R6	13	15.6	
	130	Metal E8	13.3	16.2	11.9
		Plastic E8	13	15.9	

*SH: Stack Height / *HUG: Height Under Gasket / µl: microliters / mm: millimeters



31 MS



The universal pump for accessible perfumes.

For your products

- ◆ Eau de toilette
- ◆ Eau de parfum

Aesthetic extras

- ◆ Low-profile size version

Consumer extras

- ◆ Beautiful spray due to unique spring technology

Packaging development extras

- ◆ Wide range of crimp, screw and Pushover fixations
- ◆ 60 and 80 microliter dosages
- ◆ Plastic and metal actuators

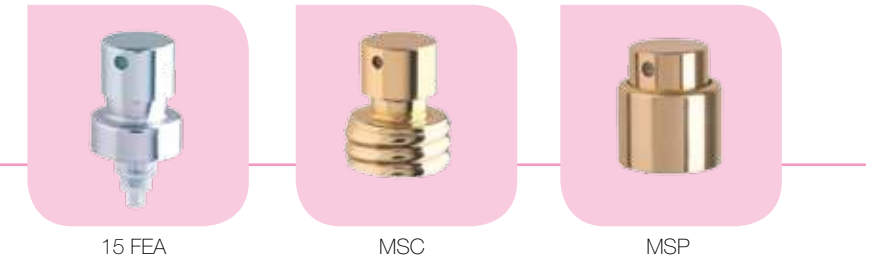
Pushover fixation

Diameter	Dosage (µl)	Recommended actuator	Actuator diameter (mm)	SH* (mm)	HUG* (mm)
31 MSP 15 15 GPI/FEA	60	Metal A03L	13.3	14.7	17.1
		Plastic A03L	13	14.4	
	80	Metal A03L	13.3	15.5	
		Plastic A03L	13	15.2	
31 MSP 18 118 GPI/FEA	60	Metal A07L	14.8	14.7	
		Plastic A07L	14.5	14.4	
	80	Metal A07L	14.8	15.5	
		Plastic A07L	14.5	15.2	
31 MSP 19 19 GPI	60	Metal A07L	14.8	14.7	
		Plastic A07L	14.5	14.4	
	80	Metal A07L	14.8	15.5	
		Plastic A07L	14.5	15.2	
31 MSP 20 20 GPI/FEA	60	Metal A07L	14.8	14.7	
		Plastic A07L	14.5	14.4	
	80	Metal A07L	14.8	15.5	
		Plastic A07L	14.5	15.2	

*SH: Stack Height / *HUG: Height Under Gasket / µl: microliters / mm: millimeters



Product range



Crimp fixation

Diameter	Dosage (µl)	Recommended actuator	Actuator diameter (mm)	SH* (mm)	HUG* (mm)
15 FEA (31 MS 155)	60	A046 L	12.2	14.6	17.1
		Metal A03L	13.3	14.7	
		Plastic A03L	13	14.4	
	80	A046L	12.2	15.2	
		Metal A03L	13.3	15.5	
		Plastic A03L	13	15.2	
18 FEA (31 MS 185)	60	Metal A07L	14.8	14.7	17.1
		Plastic A07L	14.5	14.4	
	80	Metal A07L	14.8	15.5	
		Plastic A07L	14.5	15.2	
20 FEA (31 MS 200)	60	Metal A07L	14.8	14.7	17.1
		Plastic A07L	14.5	14.4	
	80	Metal A07L	14.8	15.5	
		Plastic A07L	14.5	15.2	

15 GPI (31 MS 15)	60	A046 L	12.2	14.6	17.1
		Metal A03L	13.3	14.7	
		Plastic A03L	13	14.4	
	80	A046L	12.2	15.2	
		Metal A03L	13.3	15.5	
		Plastic A03L	13	15.2	
18 GPI (31 MS 18)	60	Metal A07L	14.8	14.7	
		Plastic A07L	14.5	14.4	
	80	Metal A07L	14.8	15.5	
		Plastic A07L	14.5	15.2	
19 GPI (31 MS 19)	60	Metal A07L	14.8	14.7	
		Plastic A07L	14.5	14.4	
	80	Metal A07L	14.8	15.5	
		Plastic A07L	14.5	15.2	
20 GPI (31 MS 20)	60	Metal A07L	14.8	14.7	
		Plastic A07L	14.5	14.4	
	80	Metal A07L	14.8	15.5	
		Plastic A07L	14.5	15.2	

*SH: Stack Height / *HUG: Height Under Gasket / µl: microliters / mm: millimeters

Screw fixation

Diameter	Dosage (µl)	Recommended actuator	Actuator diameter (mm)	SH* (mm)	HUG* (mm)
31 MSC 18/400 et 20/400	80	Metal A03L	13.3	15.5	17.1
		Plastic A03L	13	15.2	
		Metal A07L	14.8	15.5	
		Plastic A07L	14.5	15.2	

Shakers



A crimp reducer to create a splash version on the same bottle as the spray.

For your products

- ◆ Splash Eau de toilette
- ◆ Splash Cologne
- ◆ Scented fluid lotion in a dropper-type format

Aesthetic extras

- ◆ Gold or silver metal finishing

Consumer extras

- ◆ Dispenses by reducing the flow of the product
- ◆ A simplified movement

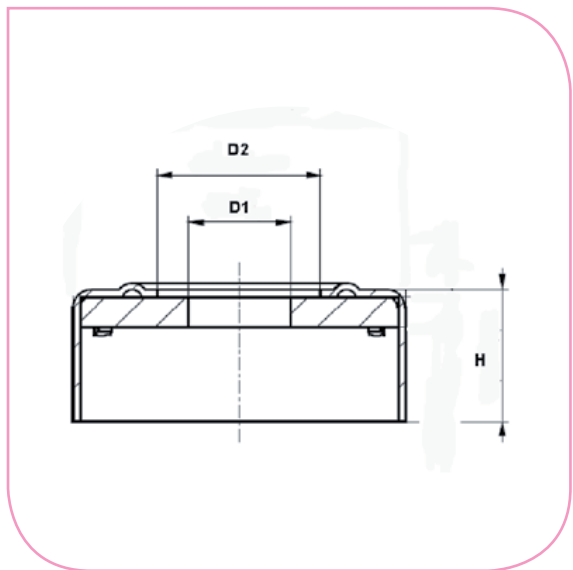
Packaging development extras

- ◆ Compatible with FEA 15 standard bottles
- ◆ Same bottle as the spray



Product range

Diameter	Ferrule height H (mm)	Diameter D1 (mm)	Diameter D2 (mm) * selected depending on diameter D1 (at least 1 mm below)
13 FEA	5.3	4.9	6.5
15 FEA	6.8	4.9	6.5



Metal Collars

Metal collars for crimp or pushover pumps.

For your products

- ◆ All spray pumps

Aesthetic extras

- ◆ The perfect anodizing, gold, silver or personalized finishing is identical to the actuator.

Packaging development extras

- ◆ Many diameters and heights as standard
- ◆ Standard beads for cap snapping
- ◆ The same mini maxi color pallet as the actuator

Product range

	13 FEA	15 FEA	15 GPI	17 FEA	18 FEA	18 GPI	19 GPI	20 FEA	20 GPI
Crimp pumps Essencia and 31MS	x	x	x			x	x	x	x
31MS Pushover metal		x	x			x	x		x
Essencia Pushover		x							

Essencia crimp pumps, 31MS et 31MS Pushover metal

Contact us to determine the size of the collar according to the client's pump and packaging. Several heights available. Smooth or with bead.

Essencia Pushover pumps

Contact us to determine the size of the collar according to the client's pump and packaging. Several heights available. Smooth collar.



Smooth collar



With bead