

» Valve

We offer a broad range of aerosol valves to provide always the perfect dispensing solution accordingly with the product formulation and aerosol packaging the customer intends to use. Versatile designs of spray/gel & mousse actuators.



Ariane Valve



The Vertical-action valve provides superior performance with ultra high-speed pressurefilling and proven reliability with exceptional spray performance. We have the right solution for any product formulation or specific dispensing modes:

- Powder Valve version (ART/AAT) for products with particles
- Foam / Mousse Valve (ATF) used in top down position with slotted body & without dip tube
- Ball valve for top down dispensing (with adapter & ball)



Bag On Valve



- Bag On Valve systems hold the product separate from the propellant, ensuring product purity
- Fast-filling design uses compressed air or nitrogen outside the bag for eco-friendly dispensing
- Standard bag sizes range from minimum 30 ml to maximum 400 ml
- Modularity – all existing standard inserts can be used
- 360° continuous spray, suitable for a wide range of applications



Metered Valve

- Metered valves are vertically actuated and deliver a precise consistent dosage of product with each actuation
- Ideal for air-fresheners, breath sprays and portion controlled applications



20 mm Valve



- 20 mm vertical action valve: superior performance with ultra rapid filling (overflow system)
- Proven reliability with exceptional spray performance
- Ultimate solution for travel packages or promotions

» Ariane Valve



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» Ariane Valve (ARM)

Stem (valve stem):

- Different orifice sizes offer different spray behaviour, spray rate and particle size.

Stem gasket (valve stem gasket):

- Different materials allow handling of different formulations and perfume oil – important – offering swelling checks at the Aptar lab.

Body (Housing):

- Castellated Body allows fast filling
- Different RTP orifices generate different spray characteristics
- VPH orifices give the opportunity to handle powder and low VOC products. Also assists with flame control and particle size.

Spring:

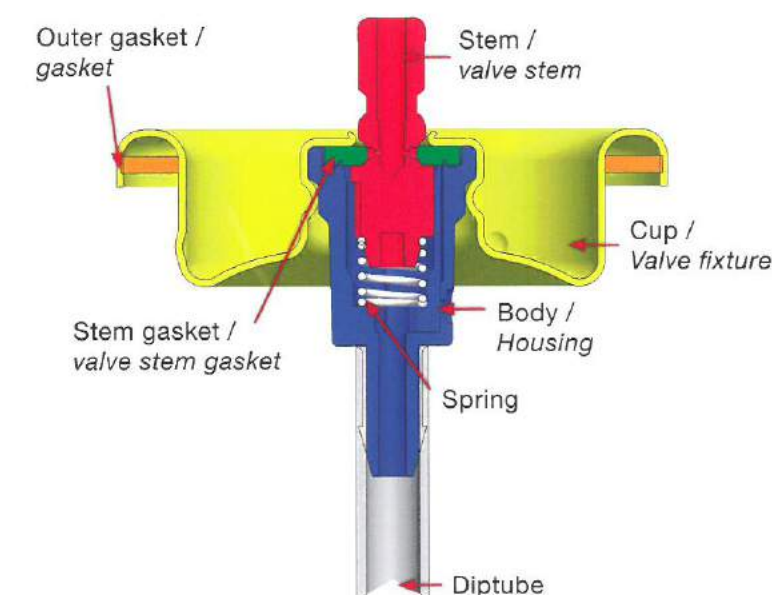
- Stainless steel material

Mounting cup (valve fixture):

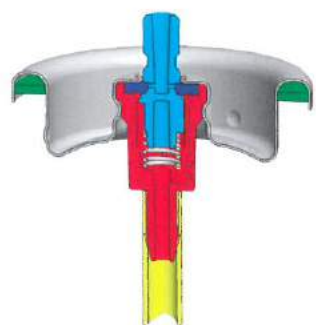
- Tinplate and Aluminium mounting cups with different coatings offer good product compatibility.

Outer gasket (gasket):

- Different materials allow a good seal between Valve and Can



» Ariane Valve



Powder Valve Version (ART)



Ariane Powder Valve

is recommended for certain formulations (Antiperspirant) with LOW content of powder particles. (To be checked with Expert Center / Laboratory)



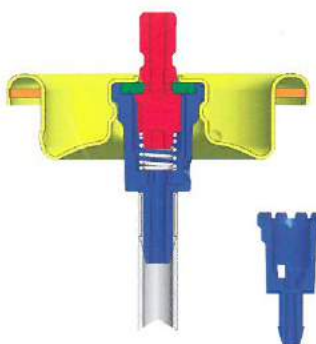
Slider Valve Version (AAT)



Powder Aerosol Valve

with slider technology. Is able to handle products with a HIGH content of powder particles or glitter;

- Dry Shampoo
- Glitter Spray



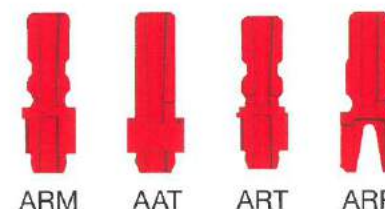
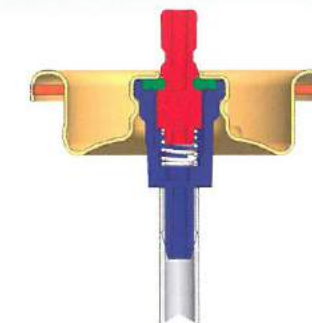
Foam / Mousse Valve (ATF)



Foam / Mousse Aerosol INVERTED USE

- Foam/Mousse Aerosol used in an inverted position.
- Dispense with a slotted valve without diptube.
- Option: diptube available for machine handling purposes

» Ariane Valve Materials



Stem

- ARM-Stem PA (Ø 4.0 mm, Ø 3.5 mm) from 0.25 to 2 x 0.70
- AAT-Stem (POM) (Ø 3.5 mm) from 1 x 0.5 to 2 x 0.5
- ART-Stem PA (Ø 4.0 mm) from 1 x 0.4 to 2 x 0.65
- ARP-Stem (POM) (Ø 3.5 mm) 1 x 0.45



Stem gasket

- Buna, Neopren, Butyl, Chlorbutyl



Cup (with or without dimples)

- Tinplate: Laminate, laquered or plain
- Aluminium: Laquered
- Tin free steel: Laminated



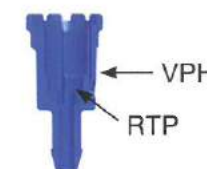
Cup gasket

- Standard Version: Nitrile
- Special Version: Chlorbutyl



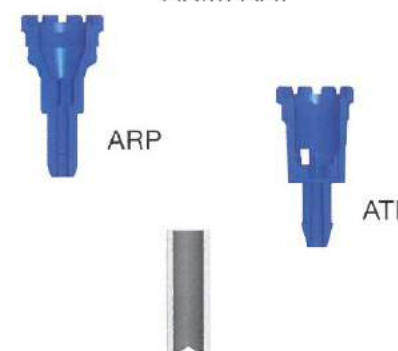
Spring

- Standard version: AISI 302
- Special version on request



Body for ARM / AAT / ART-Stem

- RTP (reduction) from 0.33 – 2.0
- VPH (orifice) from 0.33 – 0.8



Body for ARP-Stem

- Natural
- 1.2

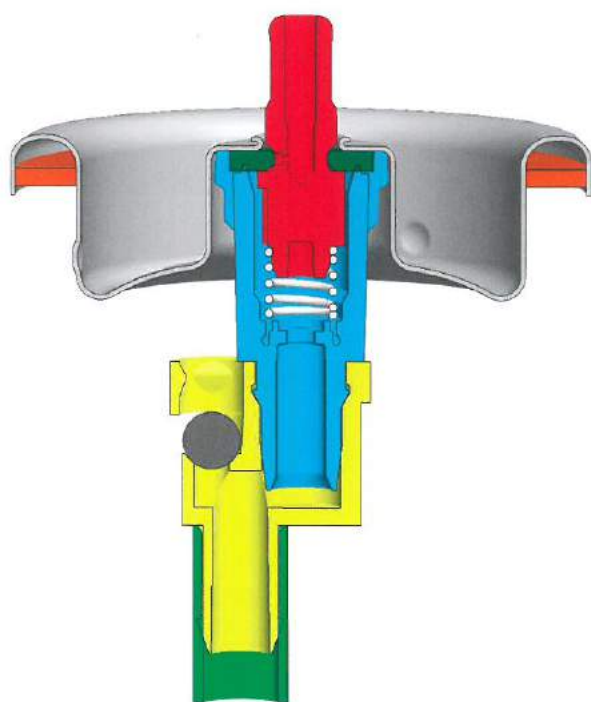
Body for inverted position

- Natural
- overhead
- slits

Dip tube

- Polyethylene

» Ariane Ball Valve



Vertical Valve
is used for a wide range of application fields. Spray and Foam/Mousse:



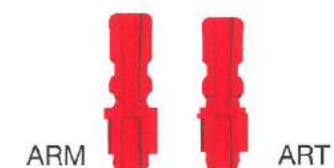
Ball Valves

- Possible to spray in the up and down position
- Are used with nitrogen (against misuse), CO₂ filling and standard liquid propellants
- Are able to handle compressed gas formulations
- We see a wide range for application fields for example: sun spray, self tan, face water and technical applications



Perfect Ball Valve
on special

» Ariane Ball Valve Materials



Stem

- ARM-Stem (Ø 3.5 mm, Ø 4.0 mm) from 1 x 0.25 to 3 x 1.0
- ART (Ø 4.0 mm) from 1 x 0.40 to 2 x 0.65
- Polyamide



Stem gasket

- Nitrile, Neoprene, Butyl, Chlorbutyl

Cup

- Tinplate: Laminate, laquered or plain
- Aluminium: Laquered
- Tin free steel: Laminated



Cup gasket

- Standard Version: Nitrile
- Special Version: Chlorbutyl

Spring

- Standard version: AISI 302
- Special version on request

Body

- Standard Version: Polyamide

Adapter

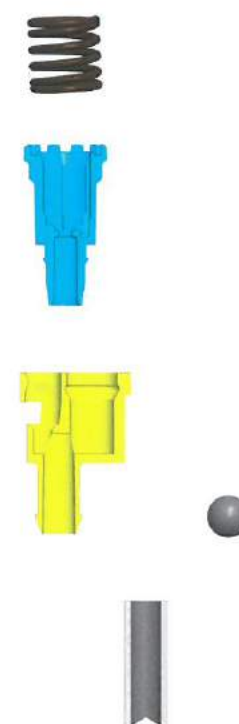
- Polyamide

Ball

- Material AISI 302

Dip tube

- Polyethylene



» Perfect Ball Valve Materials



Stem

- Perfect Ball Valve stem (Ø 3.5 mm) from 1 x 0.25 to 2 x 0.70
- Polyamide

Stem gasket

- Nitrile, Neoprene, Butyl, Chlorbutyl

Cup

- Tinplate: Laminate, laquered or plain
- Aluminium: Laquered
- Tin free steel: Laminated

Cup gasket

- Standard Version: Nitrile
- Special Version: Chlorbutyl

Spring

- Standard version: AISI 302
- Special version on request

Body

- Standard Version: Polyamide

Adapter

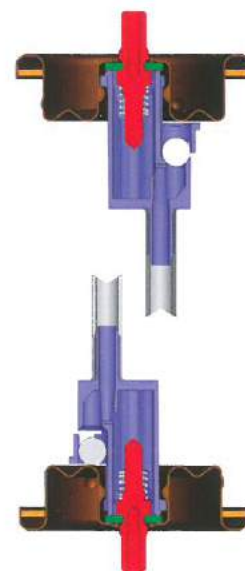
- Polyamide

Ball

- Material AISI 302

Dip tube

- Polyethylene



Perfect Ball Valve:
on special request

» Bag on Valve



- Bag On Valve systems hold the product separate from the propellant, insuring product purity
- Fast-filling design uses compressed air or nitrogen outside the bag for eco-friendly dispensing
- Standard bag sizes range from minimum 30 ml to maximum 400 ml
- Modularity – all existing standard inserts can be used
- 360° continuous spray, suitable for a wide range of applications

» BOV Benefits enhanced value

Keys to remember

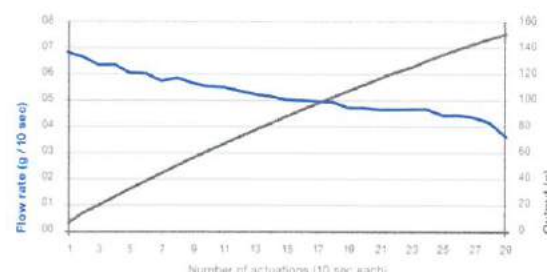


» Better use

Continuous dispensing at 360°



- Works at any angle
- No priming necessary: continuous dispensing system
- The pressurized air / nitrogen between bag & can guarantees a steady product flow
- Depending from the rheological Properties



» Better preservation

Ultimate product integrity



- Total product / propellant separation
- No back contamination due to positive pressure – ultimate product protection
- Product integrity: suitable for oxidizing formulations and high reactive formulas

» Better protection

Safe handling



- Easy and safe filling due to compressed air / nitrogen propellant
- Quick and clean filling through the female valve
- Non-voc propellant: environment-friendly dispensing system

» BOV System components

- Female system, also possible to create on behalf of a male adapter a male BOV
- PE and PP body in a wedged shape
- Stainless steel spring
- Different bag sizes for different can – size available



Actuator & Overcap
(PE, PP or POM)

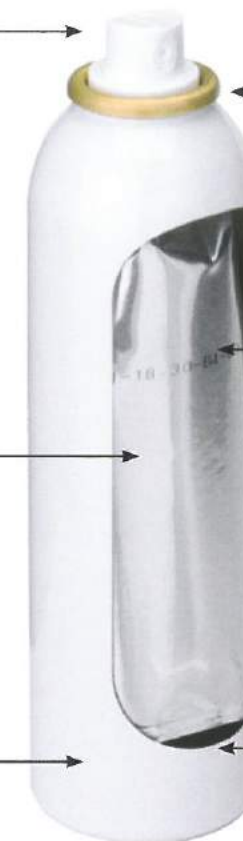
1 inch Female Valve
(no air back)

Multi-Layer bag
30 ML – 400 ML (PP or PE/OPA/Alu/PET)

Customer Product
inside bag, 60 % brimful capacity

Aluminum or TP Can
Brimful volume 77 ML to 650 ML

compressed air / nitrogen
(up to 10 bar max filled product)



» Bag on valve (BOV)

Female valve 1" (25.4 mm) Under Cup Gassing (UCG)

Inner gasket	Aluminium cup gold lacquered	Tin plate cup transparent lacquered
Neopren NA 7202	Art. Nr. 6005	Art. Nr. 6015
Buna KA 6712	Art. Nr. 6001	Art. Nr. 6014
Buna DB 219 (FDA)	Art. Nr. 6002	Art. Nr. 6017
Butyl U 133 (FDA)	Art. Nr. 6006	Art. Nr. 6018

Includes:

- Bodyvalve: PP and PE (FDA)
- External gasket: Butyl 1.2 mm
- Spring: Inox 302
- Piston: POM (polyacetal) (FDA)

On demand :

- Dip tube for viscous product (not for all sizes) PP (polypropylene)
- Mounted stem 4 mm diameter – male type PE (polyethylene)
- Male version available (stem into the valve) for Aptar Female actuators (Moritz, WS etc.)

Specification has to be adapted for each product.

» Aptar services

Qualifying BOV for your demands

Our experienced and well-equipped laboratory will perform a broad range of tests with your formulation to qualify the BOV device for your specific needs. These tests can include:

- Actuator evaluation test
- Gasket swell test
- Product compatibility test
- Clogging & Product evacuation rate test
- Samples filling with customer product for demonstration



Filling recommendations

Aptar is dedicated to support customers by providing in-depth filling recommendations:

- Recommendations for crimping parameters, etc.
- Providing drawings of collar
- Analysis of Customer filled cans & report
- Long-term relationships with partners for industrial filling worldwide



Bag sizes 4 Layer laminated bags

Bags' vol & sizes		Aerosol cans' sizes		Packaging		
Volume	Size	Brim. capacity	Size (mm)	Quantity	Weight	Carton
30 ml	A3	77 ml	35 * 88 ALU	1500	10 kg	3008
50 ml	A5	89 ml	35 * 105 ALU	1500	11 kg	3008
75 ml	C1	140 ml	40 * 125 ALU	1250	11 kg	3008
75 ml	D8	140 ml	45 * 96 TP	1250	14 kg	3008
100 ml	C2	175 ml	40 * 156 ALU	1000	7 kg	3008
100 ml	D1	175 ml	45 * 125 ALU	1250	11 kg	3008
100 ml	D1	175 ml	45 * 118 TP	1250	12 kg	3008
125 ml	D4	210 ml	45 * 150 ALU	1000	10 kg	3008
125 ml	E1	210 ml	50 * 125 ALU	1250	11 kg	3008
150 ml	D6	270 ml	45 * 190 ALU	750	10 kg	3008
150 ml	E2	270 ml	49 * 151 TP	1000	12 kg	3008
150 ml	E2	270 ml	50 * 156 ALU	1000	10 kg	3008
150 ml	F2	270 ml	53 * 142 ALU	1000	10 kg	3008
200 ml	E3	335 ml	50 * 190 ALU	700	8 kg	3008
200 ml	F4	335 ml	52 * 161 TP	750	10 kg	3008
200 ml	F4	335 ml	53 * 173 ALU	750	9 kg	3008
250 ml	F6	405 ml	53 * 205 ALU	650	9 kg	3008
250 ml	F6	405 ml	52 * 195 TP	650	10 kg	3008
300 ml	H2	520 ml	59 * 214 ALU	600	8 kg	3008
300 ml	G2	516 ml	57 * 207 TP	600	10 kg	3008
400 ml	J2	650 ml	66 * 218 ALU	600	8 kg	3008
400 ml	J2	650 ml	65 * 195 TP	600	10 kg	3008

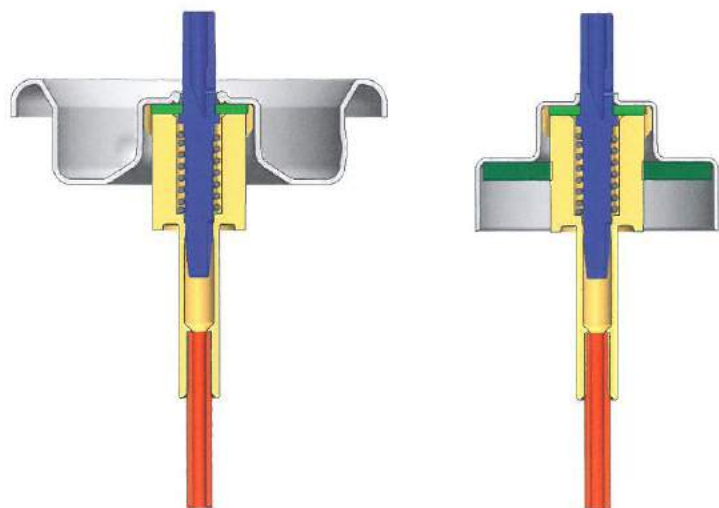
TP = Tin plate - ALU = Aluminium

Autres exécutions sur demande / Andere Ausführungen auf Anfrage / Other executions on request
v02/2010 Subject to change at any time without notice.

» Metered Valve



- Metered valves are vertically actuated and deliver a precise consistent dosage of product with each actuation
- Ideal for air-fresheners, breath sprays and portion controlled applications



Applications

- Air Care
- Oral Care

Dosage

- Europe Production: pressure fill: 120 µl, fast fill: 120 µl
- US Production: pressure fill: 25/30 µl, 40 µl, 60 µl, 80 µl, 90 µl, 120 µl, 185 µl
- Fast fill: 40 µl, 60 µl, 80 µl, 120 µl, 185 µl

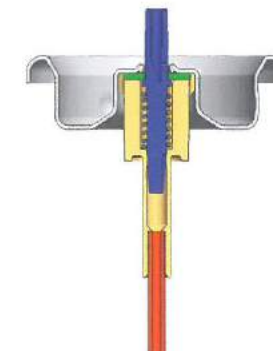
Available with

- Ferrules 20mm, ferrules 13 mm and 15 mm only USA
- 1 inch Mounting Cup



» Metered valve

with 1 inch mounting cup / Material



Stem

- (Ø 2.8 mm) POM

Stem gasket

- Nitrile, Neopren, Butyl

Mounting Cup (with or without dimples)

- Tinplate: Laminate, laquered or plain
- Aluminium: Laquered

Cup gasket

- Standard Version: Buna
- Special Version: Chlorbutyl

Spring

- Standard version: AISI 302
- Special version on request

» Metered valve

with ferrule / Material



Stem

- (Ø 2.8 mm) POM

Stem gasket

- Nitrile, Neopren, Butyl

Ferrules

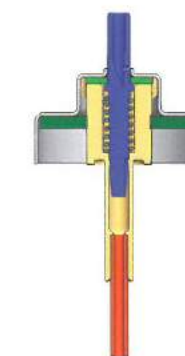
- Aluminium: plain and anodised

Gasket

- Standard Version: Buna
- Special Version: Chlorbutyl

Spring

- Standard version: AISI 302
- Special version on request

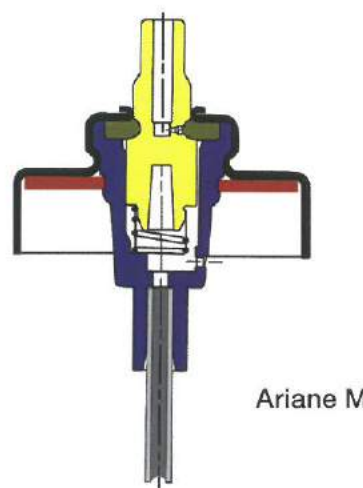


» 20 mm Valve



- 20 mm vertical action valve: superior performance with ultra rapid filling (overflow system)
- Proven reliability with exceptional spray performance
- Ultimate solution for travel packages or promotions

» Valves Ariane – 20 mm



Ariane M

» Accessories 20 mm Valve for Personal Care Application Fields

Spray applications



Actuator: 140
for 20 mm Valve
Stem diameter: 4 mm



Actuator: 155 A
for 20 mm Valve
Stem diameter: 3 mm

Foam applications












Actuator: 871 A -
Short-Nose
for 20 mm Valve
Stem diameter: 3 mm



Actuator: 870 A
for 20 mm Valve
Stem diameter: 3 mm

» Technical characteristics

Designation	Shape	Characteristics	Role
Stem		Ø stemshaft 3.0 mm / 4.0 mm Ø of the orifice > from 0.25 mm to 2 x 0.50 mm Materials = PA, POM	Controlling the flow of product
Stem gasket		Materials: nitrile, butyl, neopren	Opening/ closing the stem Sealing at the level of the stem
Spring		Material: stainless steel	Closing of the valve
Valve body	 	Ø orifice = 0.33 mm to 2.0 mm Ø VPH = 0.30 mm to 0.80 mm Tail piece adapted to exte and innerubes Materials = PA, POM	Supports the different parts of the valve (sub-assembly stem / body + diptube) Regulation of flow rate
Cup		Geometry: 20 mm Material: aluminium > 20 mm + epoxy lacquer or anodizing	Cohesion between the can and the valve and supports the valve mechanism
Cup gasket		Dimensions: adapted to the geometry of the cup Material: nitrile / butyl	Sealing valve / can
Diptube	 	Different inner diameters of the diptubes Materials: PE / PP or PET	Rise of AP to the valve

» Spray Technologies

aerosol actuators

We offer a broad range of aerosol actuators, small and functional, or bold and fashionable, all available with options to meet the required spray characteristics.



Gel and Foam Actuators – Lotion, Gel and Foam



For upright position



For inverted use only



Twist lock



» Spray Technologies

aerosol actuators

★ Vertical Valve and BOV with adaptor ● BOV only



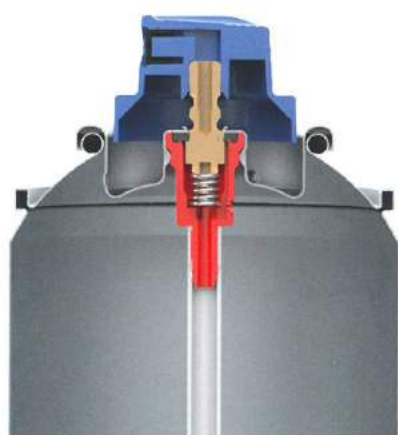
Spray Actuators



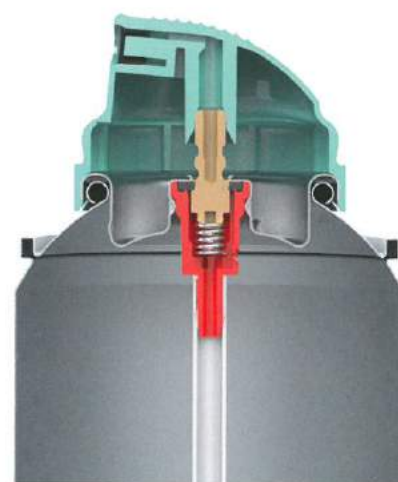
Latest Innovations on Aerosol Actuators



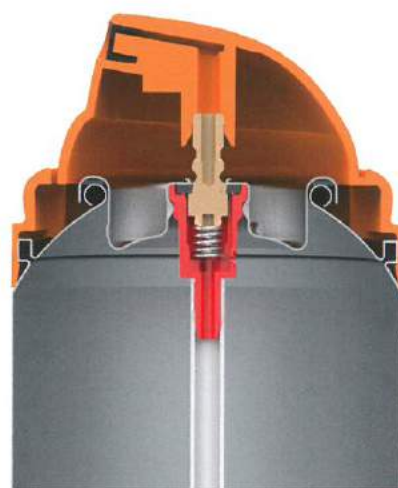
» Valve Accessories / Fitting



Fit on stem



Fit on mounting cup



Fit on can

» Valve Accessories Gel + Foam upright use

















Gel and Foam Actuators	Application Field	Valve	Skirt length	Location	Stem Fit / Fitment	Fitting Cap	Key Features
 S20	  	S20 (foam) vertical S20 (gel) BOV female	6 mm 8 mm	Europe	4.0 mm, 3.5 mm Fits on mounting cup-1" (35 mm)	K7 (p/f), K7RF (p/f), K7R4 (f)	Perfect design for foam Generous finger pad S20 Gel is compatible with BOV
 S25	 	Vertical BOV (with adaptor)	6 mm 8 mm	Europe USA	4.0 mm Fits on mounting cup-1" (35 mm)	K7 (p/f), K7RF (p/f), K7R4 (f)	S25 Gel is compatible with BOV with adaptor
 S30	 	Vertical BOV (with adaptor)	6.5 mm 9 mm	Europe	4.0 mm Fits on mounting cup-1" (35 mm)	K7 (p/f), K7RF (p/f), K7R4 (f)	Perfect design for foam
 Wren	  	Vertical (foam) Wren (gel) BOV female	8 mm	Europe USA	4.0 mm Fits on mounting cup-1" (35 mm)	K7 (p/f)	Cosmetic shape Wren Gel is compatible with BOV Several orifice restrictions available
 Allegra	 	Vertical BOV (with adaptor)	8 mm	USA	4.0 mm Fits on mounting cup-1" (35 mm)	USA	Soft actuation Compatible with BOV
 SeaGel	 	BOV female	11.9 mm	Europe	Female BOV Fits on can-53 mm	SG FL polished	Soft actuation Perfect design for shaving foam
 SeaMousse	 	Vertical BOV (with adaptor)	11.9 mm	Europe	4.0 mm Fits on can-53 mm	SG FL polished	Perfect design for shaving foam
 Vapo Gel	 	BOV female		Europe	Female BOV Fit on valve	Vapo Ring Vapo Cap	Upside down use, available in different flowrates Vapo Gel goes along with Vapo Ring + Vapo Cap, with aluminum cups only
 Optimum	 	BOV male BOV female		USA	Female BOV Fits on mounting cup-1" (35 mm)	n/a	Perfect for gels, lotions, and creams For use with male or female EP Bag-On-Valve Aluminium or Tinplate cups
 Anastasia Gel	 	BOV female		Europe	Female BOV Fits on mounting cup-1" (35 mm)	K7 (p/f), K7RF (p/f), K7R4 (f)	Soft actuation Several orifice restrictions available

» Valve Accessories Gel + Foam


inverted use

Foam Actuator	Application Field	Valve	Skirt length	Location	Stem Fit / Fitment	Fitting Cap	Key Features Actuators for inverted use only
		Vertical	10.5 mm	USA	4.0 mm Fits on mounting cup-1" (35 mm)	n/a	Ergonomic design with textured finger pad Hoodless design, no cap to lose Two piece design allows color variations
		Vertical	8 mm	Europe	4.0 mm Fits on mounting cup-1" (35 mm)	K4 polished K4 frosted	Special design for inverted position Volumizing diffuser
		Vertical	8 mm	Europe	4.0 mm Fits on mounting cup-1" (35 mm)	K4 polished K4 frosted	Unique design Volumizing diffuser
		Vertical	8 mm	Europe	4.0 mm Fits on mounting cup-1" (35 mm)	K4 polished K4 frosted	Special design for inverted position Volumizing diffuser
		Vertical	8 mm	USA	4.0 mm Fits on mounting cup-1" (35 mm)	Standard Mousse	Special design for foam Volumizing diffuser Two piece design allows color variations
		Vertical		USA	4.0 mm Fits on mounting cup-1" (35 mm)	Locking Mousse	Special design for foam Volumizing diffuser Cosmetic and feminine shape
		Vertical	8 mm	Europe	4.0 mm Fits on mounting cup-1" (35 mm)	K4 polished K4 frosted	Special design for inverted position Retro design













» Valve Accessories Spray

Spray Actuators	Application Field	Valve	Skirt length	Location	Stem Fit / Fitment	Fitting Cap	Key Features
		Vertical BOV (with adaptor)	6 mm 8 mm	Europe USA	4.0 mm, 3.5 mm Fits on mounting cup-1" (35 mm)	K7 (p/f), K7RF (p/f), K7R4 (f)	Soft actuation force Compatible with all application fields Many insert options for fine-tuning the spray. Custom colors available
		Vertical BOV (with adaptor)	6.5 mm 9 mm	Europe	4.0 mm, 3.5 mm Fits on mounting cup-1" (35 mm)	K7 (p/f), K7RF (p/f), K7R4 (f)	Soft actuation force Compatible with all application fields Many insert options for fine-tuning the spray. Custom colors available
		Vertical BOV (with adaptor)	6.5 mm 8 mm 9 mm	Europe USA	4.0 mm, 3.5 mm Fits on mounting cup-1" (35 mm)	K7 (p/f), K7RF (p/f), K7R4 (f)	Soft actuation force Compatible with all application fields Many insert options for fine-tuning the spray. Custom colors available
		Vertical BOV (with adaptor)	6.5 mm 8 mm	Europe	4.0 mm, 3.5 mm Fits on mounting cup-1" (35 mm)	K7 (p/f), K7RF (p/f), K7R4 (f)	General look well accepted by customer Soft actuation Many insert options for fine-tuning the spray. Custom colors available
		Vertical BOV (with adaptor)	10.7 mm 16 mm	Europe LATAM	4.0 mm Fits on can-45 mm TP / ALU	EU cap (f/p)	Large, ergonomic actuator Soft actuation force Attractive dome shaped hood Many insert options for fine-tuning the spray.
		Vertical BOV (with adaptor)	8.2 mm	Europe	4.0 mm, Fits on can-50 AL /49 TP	EU cap (p/f)	Large, ergonomic actuator Soft actuation force Attractive dome shaped hood Many insert options for fine-tuning the spray.
		Vertical BOV (with adaptor)		Europe	4.0 mm, Fits on can-52 TP Alu-transfer can 53 / AL	Not applicable	Modular system for tinplate can Innovative design for differentiation and Family look through 49 & 52 mm sizes Light weight solution
		Vertical BOV (with adaptor)		Europe	4.0 mm, Fits on can-49 TP Alu-transfer can 50 / AL	Not applicable	Modular system for tinplate can Innovative design for differentiation and Family look through 49 & 52 mm sizes Light weight solution

» Valve Accessories Spray

Spray Actuators	Application Field	Valve	Skirt length	Location	Stem Fit / Fitment	Fitting Cap	Key Features
 Car		Vertical BOV (with adaptor)		Europe	4.0 mm, 3.5 mm Fits on stem	n/a	Any application field where highly directional spray is desired.
 Sirena		Vertical BOV (with adaptor)		USA	4.0 mm, Fits on mounting cup-1" (35 mm)	n/a	Bold design
 WAZ		Vertical BOV (with adaptor)		Europe	4.0 mm, 3.5 mm Fits on stem	n/a	Compatible with all types of inserts Compatible with all applications
 Vapo Spray		BOV female		Europe	Female BOV Fit on Valve	Vapo ring Vapo cap	Very fine mist actuators, available in different spray characteristic. To be used with alu cup only, goes together with Vapo Ring and Vapo cap.
 Classic Spray		BOV female		Europe	Female BOV Fit on Valve	n/a	Very fine mist actuators, available in different spray characteristics.
 Anastasia Spray		BOV female		Europe	Female BOV Fits on mounting cup-1" (35 mm)	K7 (p/f), K7RF (p/f), K7R4 (f)	Cosmetic Shape

» Valve Accessories Spray

Spray Actuators	Application Field	Valve	Skirt length	Location	Stem Fit / Fitment	Fitting Cap	Key Features
 Moritz		Vertical BOV (with adaptor)	10.5 mm 12.5 mm	Europe USA	4.0 mm Fits on mounting cup-1" (35 mm)	n/a	Generous finger pad Playful & intuitive Hoodless & eco-friendly Orifice is hidden in locked position
 Glencoe		Vertical BOV (with adaptor)	10.5 mm 12.5 mm	Europe USA	4.0 mm Fits on mounting cup-1" (35 mm)	n/a	Twist-lock feature: audible Click to open Hoodless Design eco friendly Compatible with all types of inserts Generous finger pad and sculptural finger pad
 Vail		Vertical BOV (with adaptor)	10.5 mm 12.5 mm	Europe USA	4.0 mm Fits on can-53 mm	n/a	Playful & intuitive Hoodless & eco-friendly Multiple applications Orifice is hidden in locked position
 Simplicity		Vertical BOV (with adaptor)		USA	4.0 mm Fits on mounting cup-1" (35 mm)	n/a	Twist to Lock technology-locks with a click, two piece design allows color variation. Pair with Aptar Simplicity Family products!
 Akur		Vertical BOV (with adaptor)		Europe	4.0 mm Fits on stem	n/a	Two spray options in one actuator Unique design with ergonomic leverage for variety of spray Integrated extension tube: no part to lose
 Jazz Aerosol		Vertical BOV (with adaptor)		Europe	4.0 mm Fits on mounting cup-1" (35 mm)	n/a	Unique Design with ergonomic leverage Highly directional spray nozzle Many insert options Twist lock - no hood need

» Caps for Valve Accessories



SG RD polished



SG FL polished



K4 01 frosted



K4 01 polished



K4 R0 polished



K7 frosted



K7 polished



K7 R0 polished



K7RF (frosted or polished)



K7R4 frosted




Overcap	Actuator
SG	SeaGel, Seamousse
K4	S4, S14, S15, S16
K7	S20, S25, S30, WS25, WS29, WS30, WS40, Wren, Anastasia Gel, Anastasia Spray

» Accessories for Bag On Valve

spray actuators High-Tech nozzle with swirl effects

Classic Spray Color : white	Part no.	Part name	Material	g/10s at 9 bars
				Average flow rate
	7201*15=15	Classic Spray M1	POM	env. / ca. 3
	7202*15=15	Classic Spray A1	POM	env. / ca. 4
	7203*15=15	Classic Spray C1	POM	env. / ca. 7
	7204*15=15	Classic Spray S1	POM	env. / ca. 5
	7205*15=15	Classic Spray P1	POM	env. / ca. 6
	7206*15=15	Classic Spray H1	POM	env. / ca. 6
	7207*15=15	Classic Spray D1	POM	env. / ca. 12
Packaging: 5000 units per carton type 3010 / carton's weight: approx. 14 kg				


Vapo Spray Color : white	Part no.	Part name	Material	g/10s at 9 bars
				Average flow rate
	7220*15=15	Vapo Spray M1	POM	env. / ca. 3
	7221*15=15	Vapo Spray A1	POM	env. / ca. 4
	7222*15=15	Vapo Spray C1	POM	env. / ca. 7
	7211*15=15	Vapo Spray S1	POM	env. / ca. 5
	7223*15=15	Vapo Spray P1	POM	env. / ca. 6
	7224*15=15	Vapo Spray H1	POM	env. / ca. 6
	7225*15=15	Vapo Spray D1	POM	env. / ca. 12
Packaging: 3400 units per carton type 3010 / carton's weight: approx. 12.5 kg				


» Product key parameters for spray with BOV and spray nozzle


- 100 % homogeneous
- viscosity max: 8 – 10 cps
- surface tension: 30 – 40 dyn/cm

» Accessories for Bag On Valve

dispensing actuators

Classic Gel	Part no.	Part name	Material	Color
	7401*15	Classic Gel T3	POM	white
	7402*15	Classic Gel T5	POM	white
	7403*15	Classic Gel T7	POM	white
	7404*15	Classic Gel T10	POM	white
Packaging: 4500 units per carton type 3010 / carton's weight: approx. 15 kg				

Vapo Gel	Part no.	Part name	Material	Color
	7413*15	Vapo Gel 23	POM	white
	7414*15	Vapo Gel 35	POM	white
	7415*15	Vapo Gel 47	POM	white
	7416*15	Vapo Gel 62	POM	white
	7418*15	Vapo Gel 167	POM	white
Packaging: 3400 units per carton type 3010 / carton's weight: approx. 12.5 kg CAUTION: Vapo Spray must be combined with Vapo Ring & Vapo Cap and with Aluminium Cans only				


Anastasia Gel with cap	Part no.	Part name	Material	Color
	7650	Anastasia 23 + Cap	PP	actuator white, cap transparent glossy or transp. frosted **
	7651	Anastasia 35 + Cap	PP	
	7652	Anastasia 47 + Cap	PP	
	7653	Anastasia 62 + Cap	PP	
	7654	Anastasia 167 + Cap	PP	
Packaging: 2250 units per carton type 3008 / carton's weight: approx. 10.5 kg CAUTION: Anastasia must be combined with Aluminium Cup and Aluminium Cans only Remarks: Anastasia is also available in Spray version.				


» Product key parameters for dispensing with BOV and gel actuator


- 100 % homogeneous
- viscosity max: like shaving gel (need of dip tube in the bag to optimize evacuation rate)

» Accessories for Bag On Valve

caps / rings

Vapo Ring + Vapo Cap 33	Part no.	Part name	Material	Color
	7812	Vapo Ring + Vapo Cap 33	Ring: PE Cap: PP	Ring: white Cap: transp. glossy
Packaging: 1700 units per carton type 3008 / carton's weight: approx. 8 kg CAUTION: compatible with Vapo Spray or Vapo Gel and with Aluminium Cup & Cans only				

Vapo Ring + Vapo Cap 25	Part no.	Part name	Material	Color
	7822	Vapo Ring + Vapo Cap 25	Ring: PE Cap: PP	Ring: white Cap: transp. frosted
Packaging: 2000 units per carton type 3008 / carton's weight: approx. 8.4 kg CAUTION: compatible with Vapo Spray or Vapo Gel and with Aluminium Cup & Cans only				

Vapo Ring + Vapo Cap 31 round	Part no.	Part name	Material	Color
	7843	Vapo Ring + Vapo Cap 31 round	Ring: PE Cap: PP	Ring: white Cap: transp. frosted
	7857	Vapo Ring + Vapo Cap 31 round	Ring: PE Cap: PP	Ring: white Cap: transp. glossy
Packaging: 2000 units per carton type 3008 / carton's weight: approx. 8.4 kg CAUTION: compatible with Vapo Spray or Vapo Gel and with Aluminium Cup & Cans only				