



# Bag-on-Valve

Technology Platform



Delivering solutions, shaping the future.

Aptar   
pharma

# Bag-on-Valve Technology Platform

## The Widest Range of Continuous Dispensing

### The Superior Aerosol Dispensing Format for Clean, Convenient and Safe Application

Aptar Pharma's Bag-on-Valve (BOV) continuous dispensing technology delivers a cleaner, superior product application

- Pure, clean and stable product
  - Best in class barrier function to ensure ultimate product protection
  - Complete separation of product from propellant
- Customizable flow rates for viscous to liquid formulations
- Highly efficient evacuation rates
- Convenient handling for consumer
  - Full 360° usage
  - No priming needed
  - Superior dispensing control



### Enabling the Widest Range of Product Possibilities



Aptar Pharma's highly versatile BOV actuator portfolio covers a wide range of applications

- Ear-nose-throat
- Dermal
- Veterinary

Our highly flexible actuator technology allows for versatile application formats

- From soft spray to jet and gel dispensing
- Across a wide range of viscosities

Our large variety of bag volumes and color options allow for a diverse, unique product portfolio.

### Aptar Pharma's BOV Technology Platform Fulfills the Highest Quality Standards

- Full pharmaceutical Change Control Procedure
- Certified production standards
- Medical grade options are available
- Irradiation support upon request



ISO15378



ISO13485

## Aptar Pharma's BOV Technology Platform is a recyclable solution supporting more sustainable aerosol dispensing

- Good product recyclability certified with cyclos-HTP (Class. A)\*
- Supports existing aluminium recycling streams\*\*
- BOV system is applicable with non-VOC (volatile organic compound) propellants, such as compressed air

\* cyclos-HTP certification based on complete BOV system, i.e. including aluminium can, valve, pouch and actuator

\*\* AT, BE, DE, FR IT, NL, UK



## The Pacifica and Anastasia Actuator Families Provide Superior Convenience and Design Features

### Users value their premium look & feel and design features

- Clean look and integrated design
- Comfortable actuation and handling
- Integrated tamper evident mechanism

### Manufacturers appreciate the simplified filling & production processes

- Integrated over cap
- Unified format sets on filling line
- Streamlined supply chain

## Expanding the Pacifica Range With Two New Actuators

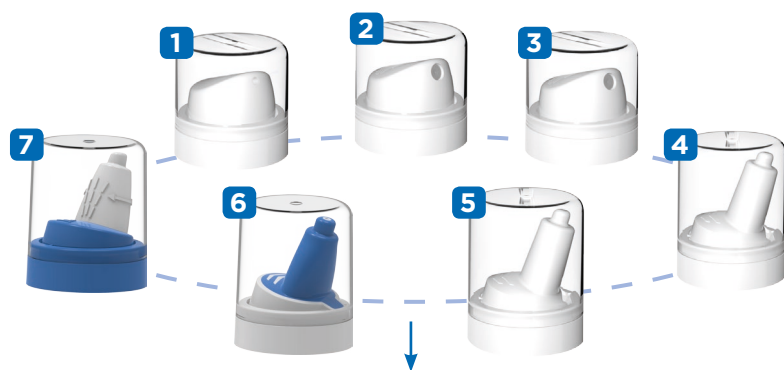


### Pacifica Soft, for more gentle application

- Designed for infants' and toddlers' delicate noses
- Made with soft materials for improved actuator haptics

### Pacifica Duo, fulfilling two needs with one product

- Providing flexibility to consumers























- 1** Anastasia Gel
- 2** Anastasia Jet
- 3** Anastasia Spray



- 4** Pacifica Jet
- 5** Pacifica Spray
- 6** Pacifica Soft
- 7** Pacifica Duo

# Our Wide Range of Actuators Enables a Diverse and Unique Product Portfolio

NASAL	<b>EP*</b>	<b>Baby*</b>	<b>Pacifica*</b>	<b>Pacifica Soft*</b>	<b>Pacifica Duo*</b>
					
	 OR 		 OR 		 AND 
	Proven classical design used with the world's most trusted brands		Advanced design for clean medical look Integrated tamper-evident feature Integrated cap for simplified processing and streamlined supply chain		
Applicable for nasal hygiene, moisturizing, care, irrigation Variable flow rates for customizable use, i.e. from gentle moisturizing to irrigation Flow Rates: 8 / 30 / 75 ml per 10 sec					









DERMAL	<b>Moritz</b>	<b>Anastasia*</b>	
			
		 OR 	Gel
	Lockable actuator	Increased finger flange for better control and ease of use	Gold standard for topical analgesics
Advanced design for clean medical look	Advanced design for clean medical look Integrated tamper-evident feature Integrated cap for simplified processing and streamlined supply chain		
Applicable for broad range of viscosities Flow rates:  10-40ml/10s at 9bar  75ml/10s at 3bar			

## Anastasia spray

Convenient & flexible use



Continuous soft mist  
Applicable at any angle

OTHER ROUTES	<b>Throat</b>	<b>Ear*</b>	<b>Vaginal</b>	<b>Anal</b>
				
				
Moisturizing / irrigation	Gentle irrigation	Hygienic irrigation	Various viscosities dispensable	

KEY:  = Spray  = Jet \* = medical grade materials

Learn about PureHale®, Aptar Pharma's innovative BOV technology targeting the upper respiratory tract  
[www.aptar.com/products/pharmaceutical/purehale/](http://www.aptar.com/products/pharmaceutical/purehale/)

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