



the **dermal** experience

REXAM



the dermal experience




The dermal route is gaining ground in both the prescription and OTC markets. It fits with the trends for better drug efficiency and ensures patient compliance. It also allows for self-administration.

Our solutions to your needs

Today's high performing formulations require reliable, high quality dispensing systems. Rexam can offer a solution to your specific needs. Our systems are designed to handle the most viscous formulations. We guarantee precision and dose consistency, critical factors especially when dealing with systemic applications. We also have extensive expertise in airless delivery systems which dispense and protect your sensitive products.

How to choose from our solutions?

We can help you choose from our range of pumps, valves and airless systems, to meet your product criteria. We also offer a comprehensive range of fittings, bottles/tubes and applicators. For our spray pumps, please consult us.

Criteria	Lotion pumps			Valves				Airless systems		
	SP943	SP34	SP24	2D	CV20	6668	6685	Sof' Bag	Sof' Airless XS	Sof' Airless XL
Nature of formulation										
Lotion, cream, gel, ointment	●	●	●	●		●		●	●	●
Highly viscous								●	●	●
Highly sensitive product								●	●	●
Liquid				●	●					
Powders							●			
Dosage										
None (continuous)					●	●	●			
Low dosage < D250		●	●	●					●	
High dosage > D250	●							●		●
Fitting										
 Crimp-on		●	●	●	●	●	●			
 Screw-on		●	●							●
 Snap-on	●	●	●					●	●	



Quality first and foremost

We have dedicated pharmaceutical facilities and healthcare quality programs (ISO 15378 certification). cGMP standards are at the core of our manufacturing and validation culture.

Thanks to our compliance with the most demanding specifications (EMA, FDA, USP...), our pumps and systems are well-suited to deliver precise doses of topical or systemic drugs such as local anaesthetics, anti-inflammatories, hormones, antibiotics, antifungals or counter-irritants for the skin.

Fitting systems



Crimp-on

An updated classic solution for standard finishes, optimized by Rexam to ensure easier assembly on filling lines.



Screw-on

Reliable and easy-to-assemble option. The easy separation of the pump from the bottle supports recycling.



Snap-on

This attachment, known as an "outside neck" ensures that every container is tamper-proof and airtight.

Dermal pumps and valves

Tuned for consistency, our pumps are tested and guaranteed by our laboratories. They are models of stability, accuracy and reliability.

Pumps/Valves	SP943					SP34			SP24			CV20	6668	6685	2D	
Dose µl	672	1000	1150	1420	1500	80	130	230	50	80	130	none	none	none	100	
Snap-on																
	M17C						●	●	●	●	●					
	M17E									●	●					
	FEA 20 mm						●	●	●	●	●					
	M32/41	●	●	●	●	●										
Crimp-on																
	FEA 13 mm						●	●	●	●	●					
	FEA 15 mm						●	●	●	●	●					
	FEA 17 mm						●	●	●	●	●					
	FEA 18 mm						●	●	●	●	●					
	FEA 20 mm						●	●	●	●	●	●	●	●	●	●
Screw-on																
	DIN 18/10						●	●	●	●	●					
	DIN 18/13						●	●	●	●	●					
	GCM1 18/400						●	●	●	●	●					
	GCM1 18/415						●	●	●	●	●					
	GCM1 20/400						●	●	●	●	●					
	GCM1 20/410						●	●	●	●	●					
	GCM1 22/410						●	●	●							

● standard ● available

Pumps

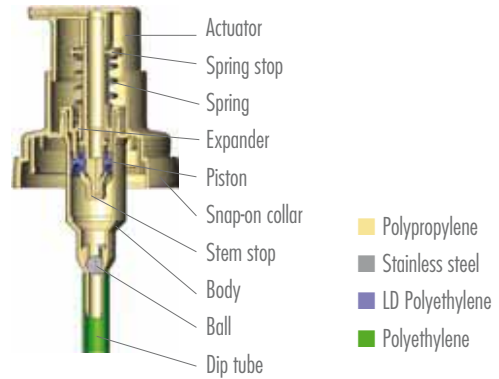


SP943

The pharmaceutical pump for high dose applications

Key advantages

- atmospheric or airless versions
- suitable for viscous lotions and gels
- total neutrality and compatibility:
 - no gasket
 - no contact between the bulk and the spring
 - resins in contact are FDA compliant (USP and European Pharmacopoeia)
- available with the Sof'Bag airless system
- DMF (Drug Master File) 13153



TECHNICAL DATA	
Doses available (µl)	672 - 1000 - 1150 - 1420 - 1500
Dose consistency	mean dose: ± 10%; indiv. dose: ± 15%
Standard fitting	M32
Actuator	BP mono 4389

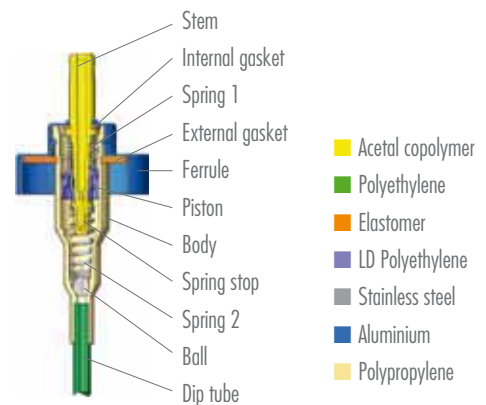


SP34

A standard fluid pump with high flow rate

Key advantages

- precise delivery of viscous liquids
- atmospheric or airless versions
- suitable for cream, gels or ointments
- DMF in process



TECHNICAL DATA	
Doses available (µl)	80 - 130 - 230
Standard fitting	FEA 20 mm DIN 18/10 - DIN 18/13 M17C
Actuator	Standard 9590

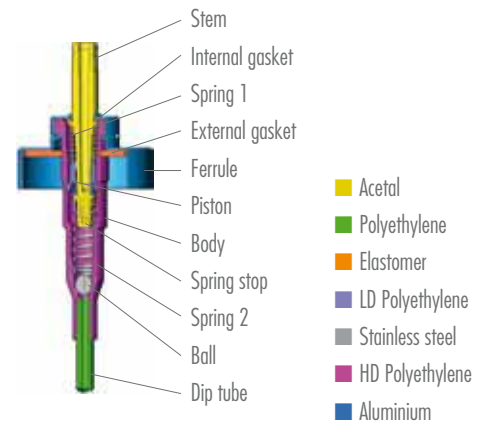


SP24

Precise delivery for low dosage

Key advantages

- accurate lotion pump for targeted areas
- suitable for viscous substances such as gels, creams and ointments
- atmospheric or airless versions
- DMF 13153



TECHNICAL DATA	
Doses available (µl)	50 - 80 - 130
Standard fitting	FEA 13 mm - FEA 20 mm
	DIN 18/10 - DIN 18/13 GCM 20/400 - GCM 20/410
	M17C - M17E - FEA 20 mm
Actuator	Standard 9590

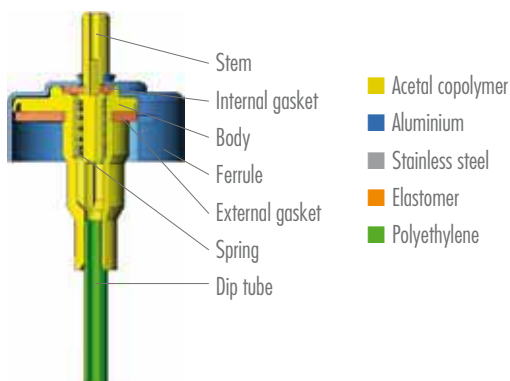
Valves



Continuous valves

Features

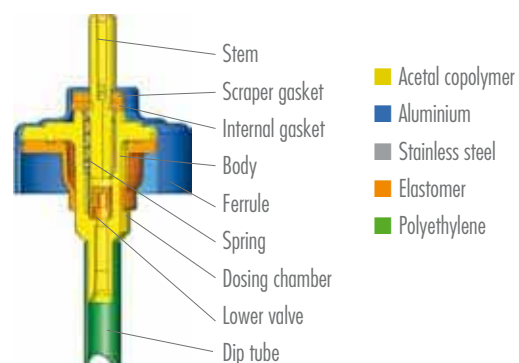
- valve CV20: for liquid formulations. It works with compressed nitrogen or liquid gas
- valve 6668: for viscous products such as creams, ointments and gels
- valve 6685: for pharmaceutical powders
- fitment FEA 20 mm



Metered valve

Key advantages

- metered dose valve with a neutral propellant agent (nitrogen) for liquid and viscous solutions
- ensures protection of active ingredients down to the last drop
- 100 µl dose available
- fitment FEA 20 mm



Airless systems

Rexam provides complete airless packaging adapted to your specific requirements with its pouch system, the Sof'Bag, and its piston airless packaging, the Sof'Airless.

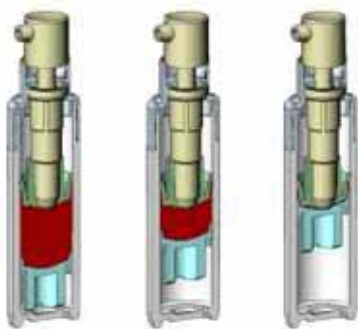
What is an airless system?

An airless package is a non-pressurized system, combining a mechanical pump with an airless sealed container which dispenses the substance without air intake.

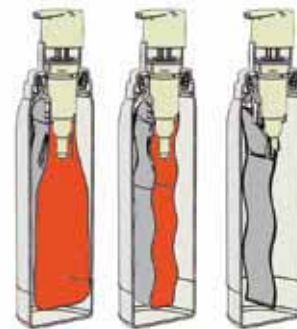
It is suitable for all types of products: fluid or viscous, liquids, creams, gels or pastes.

The container is either equipped with a piston or a pouch.

System with a piston: the substance is supplied by a pump that dispenses the product causing the rise of a piston, located inside the bottle, along with the product.



System with a pouch: the pump draws the product contained in a flexible pouch located inside a rigid container. The pouch collapses, without air intake, each time the pump is activated.



Top 6 reasons to prefer an airless solution:

- excellent evacuation rate (optimum use of the product)
- protection against oxidation and/or contamination
- little or no preservatives (no need to open container, therefore no risk of contamination)
- precise dosing
- user-friendly (can operate system in any position)
- lengthens product in use life







The Sof'Bag

A simple-to-use but high performing airless pouch system for transdermal applications

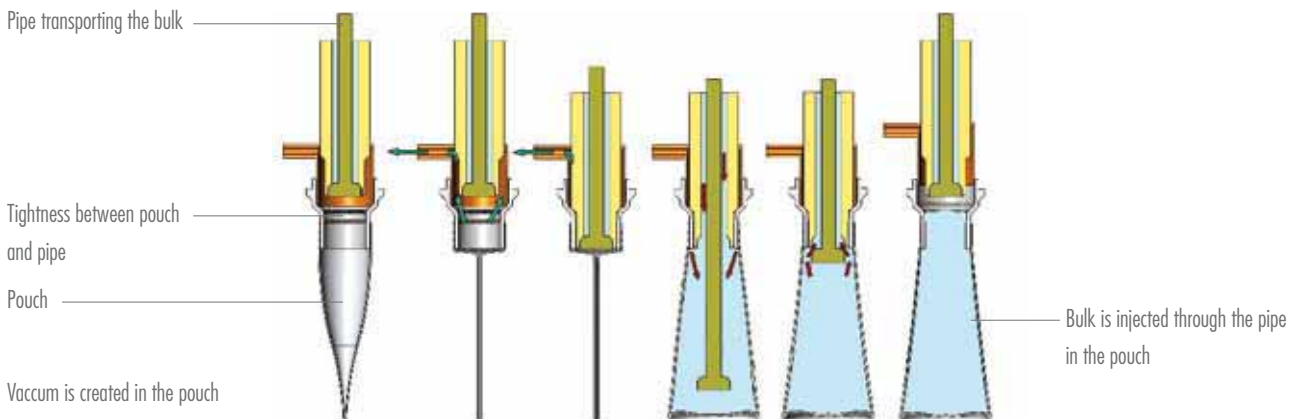


Key advantages

- for cream and sensitive substances
- effective barrier properties (from oxygen, light and moisture)
- two components
 - SP943 metering pump and cap
 - a bottle with an inner multilayer aluminium collapsible pouch
- user-friendly: works in all positions
- easy filling process

TECHNICAL DATA	
Doses available (µl)	672 - 1000 - 1150 - 1420 - 1500
Evacuation ratio	95% for 100 ml depending on bulk
Fitting	 M32
Bottle capacity	50 ml and 100 ml
Actuator	BP mono 4389 

Recommended filling process



Sample's filling process.
Photo courtesy of Laboratoire Davioud





Sof'Airless XS


The Sof'Airless

The piston airless solutions
Systems to protect and dispense high-viscosity products


Key advantages

- airless systems for Rx, OTC & pharmacy
- protect and dispense high viscosity creams in any position
- only 3 parts: container + dispensing head + cap
- purge ring system
- filling can be done on standard filling lines

Sof'Airless XS

TECHNICAL DATA	
Doses available (µl)	50 - 80
Fitting	SP24
Bottle capacity	2.05 ml
Actuator	BP mono 9700 

Sof'Airless XL - customised solution*

TECHNICAL DATA	
Dose available (µl)	1420
Fitting	SP943
Bottle capacity	41 ml and 59 ml
Actuator	AB1544 

* not available for anti-acne applications
Other doses available, consult us



Sof'Airless XL
customised solution

Customer specific developments

We can provide efficient, easier to manufacture and cost-effective solutions adapted to your needs. Experts from our Tech Centres can work with you to design specific tailor-made solutions.

We also offer systems for your substances that do not require pharmaceutical resins or environment.

Our personal care facilities produce a wide choice of lotion pumps and airless systems for skincare and cosmetics.

For further information, please consult us.



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