



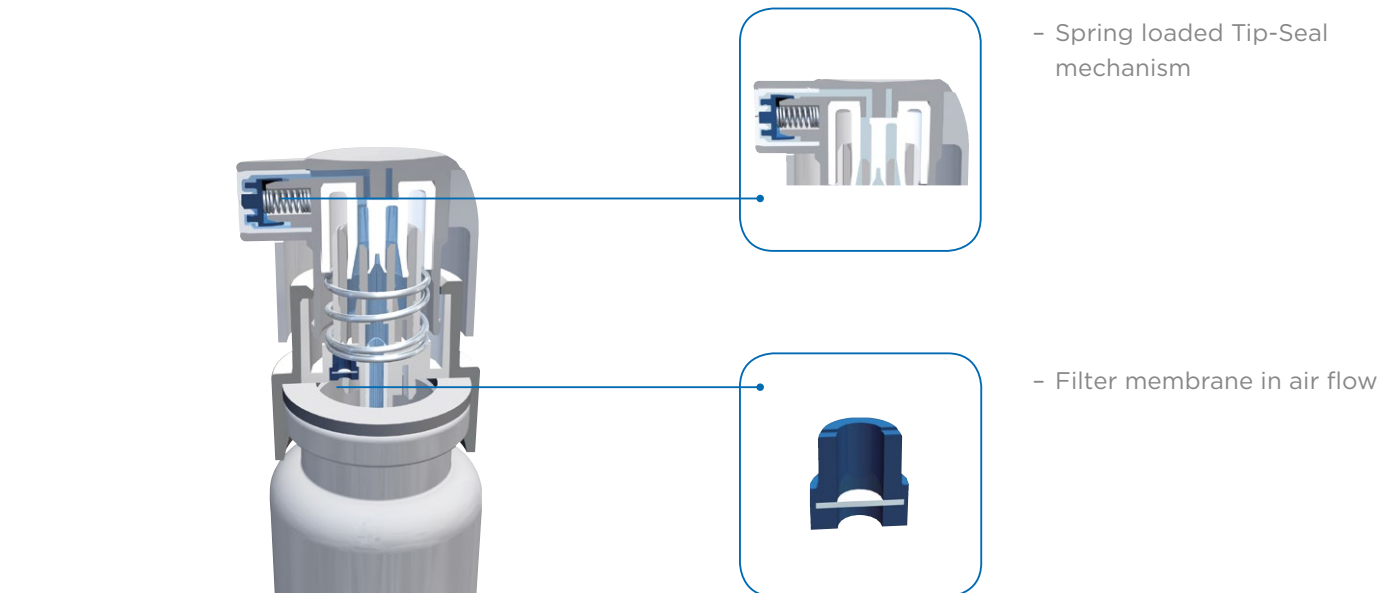
Advanced Preservative Free^{Plus}

Advanced Preservative Free^{Plus}

Gold standard for unpreserved sprays

Benefits

- Soft and gentle mist
- Metal free fluid path
- Sterile according to ISO11137
- Tip design prevents crystallization and clogging
- Purely mechanical barrier, no additives
- Supporting successful brands globally



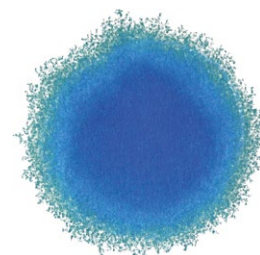
Outstanding Spray Performance

APF^{Plus} advantages

- Fine mist
- Round spray pattern
- Long and stable fully developed phase of spray



Standard spray pattern



APF^{Plus} spray pattern

Proven Microbiological Integrity Protects Your Preservative-free Formulation

- Aptar Pharma's Tip-Seal technology has been qualified by microbial challenge tests and has passed relevant worst-case simulation
- Comprehensive data package



TSIT 2.0

(Tip Seal Integrity Test)

Submersed actuation in challenge suspension containing *Pseudomonas aeruginosa*, *Staphylococcus aureus* and *Candida albicans*. Reflects most recently updated guidelines in highly regulated markets.



CVIT

(Closure Ventilation Integrity Test)

Closure and filter challenge with *Bacillus atrophaeus* spores in aerosol chamber.

Full 360° Functionality

- Unvented preservative free system
- Pouch system allows for 360° use
- Convenient and intuitive handling



Advanced Preservative Free^{Plus}



Dose volume: 50 µl to 140 µl

Closure



Snap-on
Size: 20 mm



Screw
Size: 18 mm

Accessory



Protection cap

