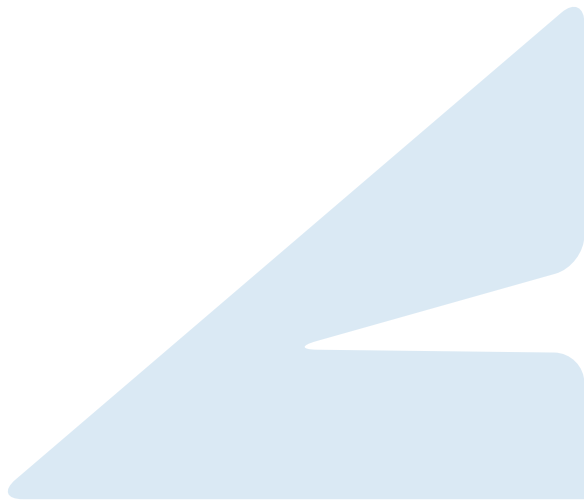




Other  
Routes



## VP3 Technology Platform



## VP3 Technology Platform

VP3 is the most widely used multi-dose pump in the world for local and systemic pharmaceutical applications.

### Key Benefits

- Excellent dose accuracy with a wide range of viscosities
- Wide range of dose volumes: 50 µl to 140 µl with different closures
- Fine and reproducible spray
- Suitable for liquid solutions, suspensions and viscous drug formulations including gels
- Materials used can be customized to meet specific formulation needs
- Fast priming pump
- Excellent ergonomics and soft actuation
- Actuator and cap with child-resistant features

### Key Differentiators

- Several prescription drug product references on the European, Japanese and U.S. markets
- *In vitro* Bioequivalence testing
- GMP manufacturing using ISO7 clean rooms
- Global footprint
- Ultra-clean gaskets supplied by the in-house Elastomer Center

### Available Closure Types/Doses

#### CRIMP-ON






DIAMETER (FEA STANDARDS)	DOSES (µl): 50, 70, 93*, 100, 106, 140*
20 MM	■

#### SCREW-ON

DIAMETER	DOSES (µl): 50, 70, 93*, 100, 106, 140*
18 ph 18/415 GPI	■ ■

\*Average dose with water (95 and 137 mg)

### Pump / Actuator / Cap Cross-Reference

	 144 GI	 CB18 NA	 CB18 WNA**	 161	CLIP
SKIRT		SHORT	SHORT		
CRIMP-ON		■	■	■	
SCREW-ON	■			■	■*
 B25A	■	■	■		

\*Not available for 161, \*\*Available for Asian market only  
Other designs and customizations upon request.