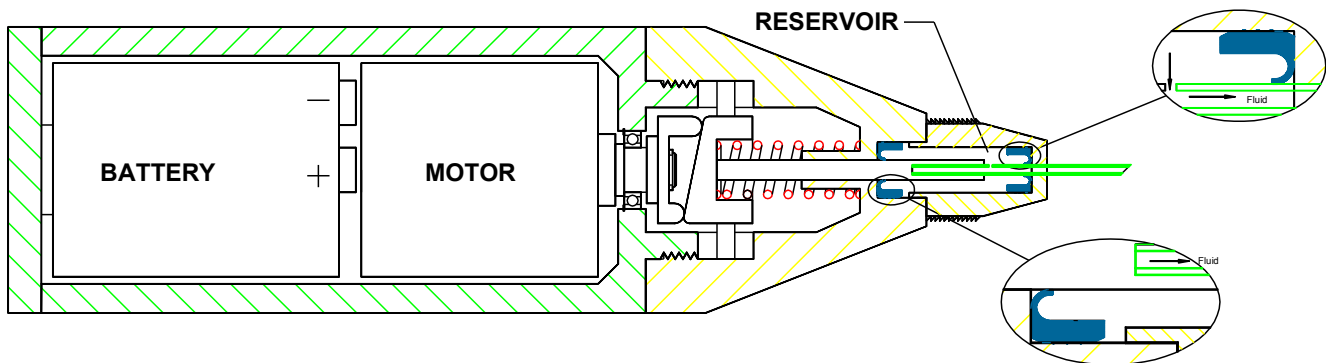


BAL SEAL® SEALS IN TATTOOING PIGMENT APPLICATORS

An applicator design must be light and fit easily into the user's hand. The basic operation of a rotating cam transfers motion to a wobble plate, which moves a reciprocating needle.

At the applicator tip, two Bal Seal® spring-energized seals are placed to protect and retain the fluid in the drive mechanism and to keep the pigment fluids from leaking. These components must operate freely and contribute minimally to power loss.



Operating Parameters

Pressure:	Atmospheric to autoclaved 30 psi (2 kg/cm ²)
Temperature:	70 °F to autoclaved 275 °F (21 °C to 135 °C)
Media:	Pigment, bearing grease and sterilization fluids
Additional:	Low friction and autoclavable

Seal Selection: PB

Features:

- Low friction to keep responsive needle motion
- Bearing grease kept from weeping into the environment, and environmental contaminants kept out
- Pigment sealed from electro-drive mechanism
- Bal Seal® seals deliver excellent sealing performance - even after multiple autoclave and sterilization cycles
- Filled PTFE seal materials operate unlubricated, and are FDA-compatible

For more information and technical assistance, contact a technical sales representative.

PATENTS: The items described in this page include products that are the subject of issued United States and foreign patents or products where patents are pending, including the following: Patents 6,641,141 B2; 7,210,398 B2; 6,161,838; 5,992,856; 5,134,244

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Bal Seal Engineering is certified to [ISO 9001](https://www.iso.org/standard/54554.html) | www.balseal.com