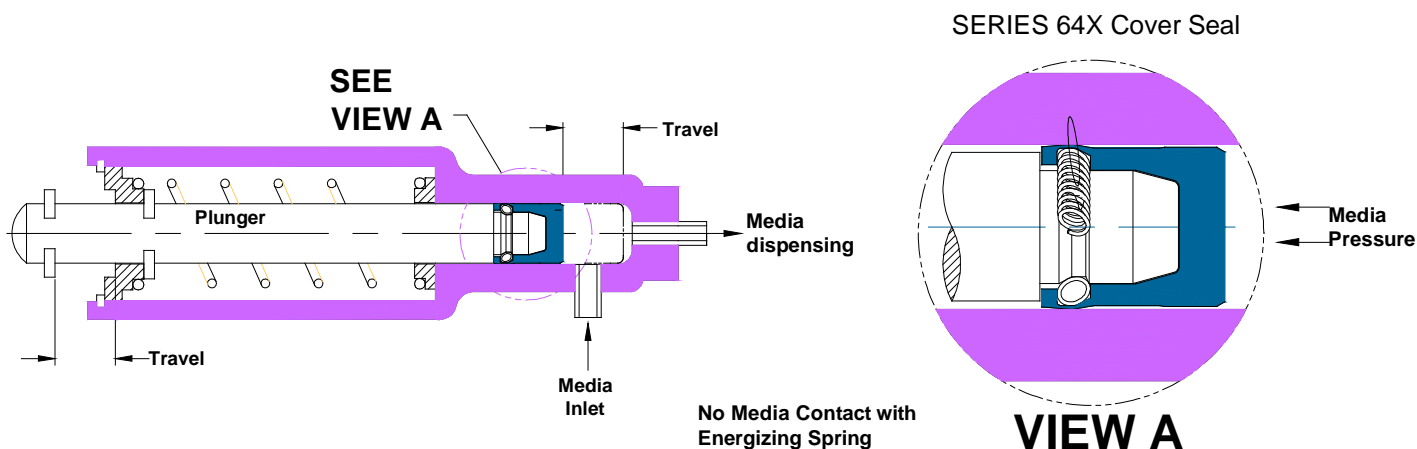


## BAL SEAL® SPRING-ENERGIZED SEALS IN FLUID DISPENSING PUMPS

Fluid dispensing pumps deliver various types of reagents, saline solutions, and solvents used in laboratory and medical applications. The Bal Seal® spring-energized seal design and the patented Bal Spring™ canted coil spring technology provide sealing dependability.

The proprietary materials used by Bal Seal Engineering, Inc. offer chemical compatibility and low friction, which provide maximum life and sealing reliability.



### Operating Parameters:

Sealing pressure: 2 to 45 psi (0.14 to 3.2 kg/cm<sup>2</sup>)  
Typical speed: Slow  
Temperature: 70°F to 266°F (21°C to 130°C)  
Media: Acids, solvents and corrosive chemicals

### Features:

- The 64X services seal has a snap-on locking feature for ease of assembly and permanently locking of the seal on the piston.
- Low dead volume for consistent metering and dispensing of the media.
- Patented, Bal Spring™ canted coil spring technology gives near-constant force over the spring's deflection range, ensuring low frictional drag, consistent sealing, and long life. The spring does not contact the media.
- Bal Seal Engineering provides filled PTFE seal materials with excellent wear resistance and chemical compatibility, as well as other high-temperature engineered plastic compounds that meet long-term application needs.

Additional: Low friction and chemically inert to most materials and media

For more information and technical assistance, consult the Technical Sales Department.

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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, Inc. is certified to ISO 9001