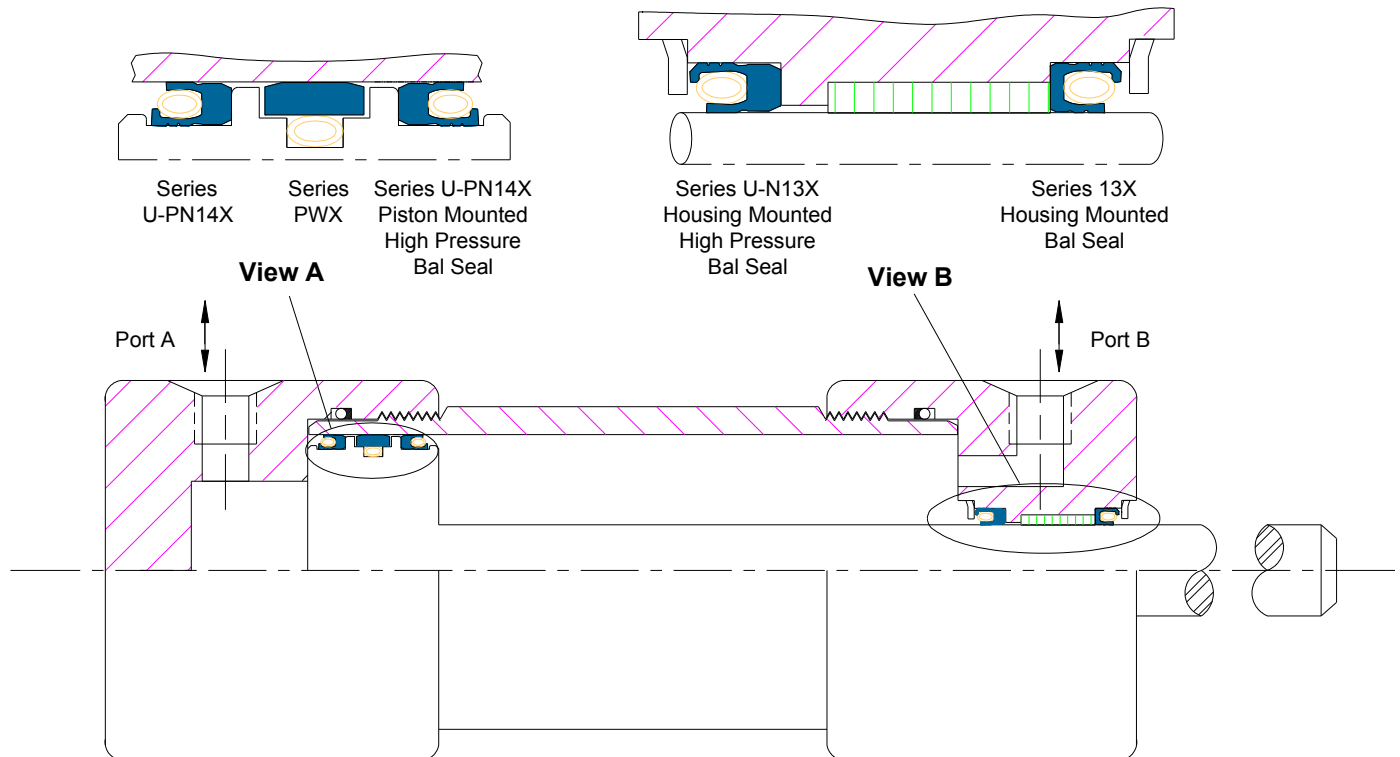


## BAL SEAL® SEALS IN LOW-PRESSURE HYDRAULIC CYLINDERS

Low-pressure hydraulic cylinders are extensively used in industrial, agriculture, processing, and manufacturing equipment and other industrial machinery. Hydraulic cylinders must operate with minimal downtime in harsh environments and conditions; failure during production is costly.

Bal Seal® seals enhance performance and ensure sealing repeatability, which reduces production expenses by minimizing costly downtime.



### Operating Parameters

Sealing pressure:	3,000 psi (211 kg/cm <sup>2</sup> )
Typical speed:	Slow
Temperature:	- 65°F to 250°F ( - 54°C to 12 1°C)
Media:	Hydraulic oil, environment and dirt particles

### Features:

- High-pressure, double-acting Bal Seal seals with canted coil spring energizer for long seal life
- High-pressure backup rings – designed for minimal seal extrusion and fabricated from non-scratching, low-friction materials
- Bal Seal spring-energized guide rings hold the piston concentric for reduced seal wear and reduced cylinder bore scratching
- Canted coil energized environmental seals provide maximum external sealing, minimal friction and long life

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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