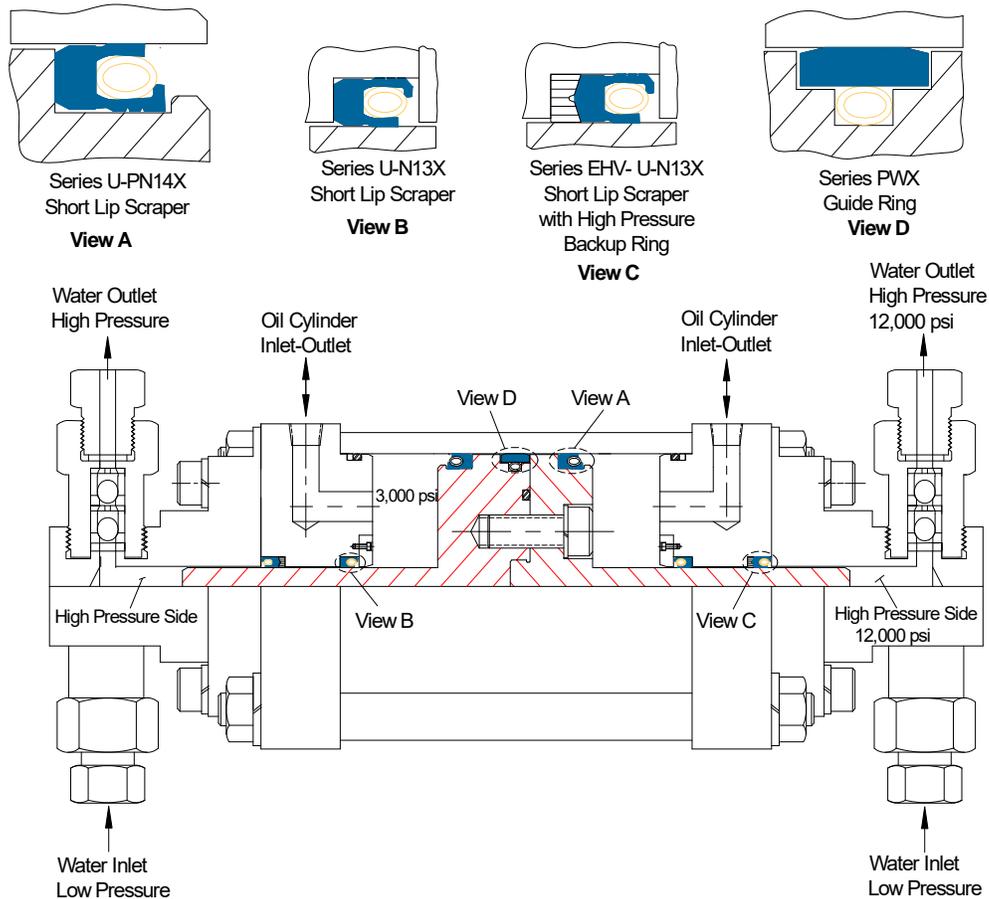


## BAL SEAL SEALS IN DOUBLE-ACTING HYDRAULIC INTENSIFIERS

Double-acting hydraulic intensifiers convert low input pressure to high output pressure for a variety of hydraulic devices, such as water-jet cutting and high-pressure cleaning systems.

Bal Seal® seals incorporate high-performance seal materials, canted-coil spring technology, and proven seal design features that work effectively in these high-pressure systems. Bal Seal Engineering, Inc. continually develops new technologies to better serve its customers.



### Operating Parameters

Sealing pressure:	3,000 to 12,000 psi (211 to 844 kg/cm <sup>2</sup> )
Typical speed:	Slow
Temperature:	- 65°F to 250°F ( - 54°C to 121°C)
Media:	Hydraulic oil and water
Additional:	Sealing ability and longer seal life

### Features:

- EHV-U-N13X series, used for high pressures up to 80,000 psi (5,625 kg/cm<sup>2</sup>); the EHV back-up ring is designed to reduce the extrusion gap on the outside and inside diameters as the pressure increases
- U-PN14X series seals are designed to mount into a low ¼ step piston groove, which saves the customer manufacturing and assembly costs; U-PN14X series seals incorporate short lip and canted-coil technology
- U-N13X series seals provide stability in high pressures up to 10,000 psi (703 kg/cm<sup>2</sup>)
- Spring-loaded PWX series guide rings ensure piston-to-bore concentricity, which reduces bore wear
- Seals with proprietary in-house materials; the filled PTFE materials provide excellent endurance and long life
- High-pressure back-up rings from non-scratching, low-friction materials, designed to minimize seal extrusion

For more information or 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  
 U.S. Address: 19650 Pauling Foothill Ranch, CA 92610-2610 • Phone: (949) 460-2100 • Fax: (949) 460-2300

BV Address: VIDA Building, First Floor • Kabelweg 57 • 1014 BA Amsterdam • The Netherlands • Phone: 31 20 638 65 23 • Fax: 31 20 625 60 18