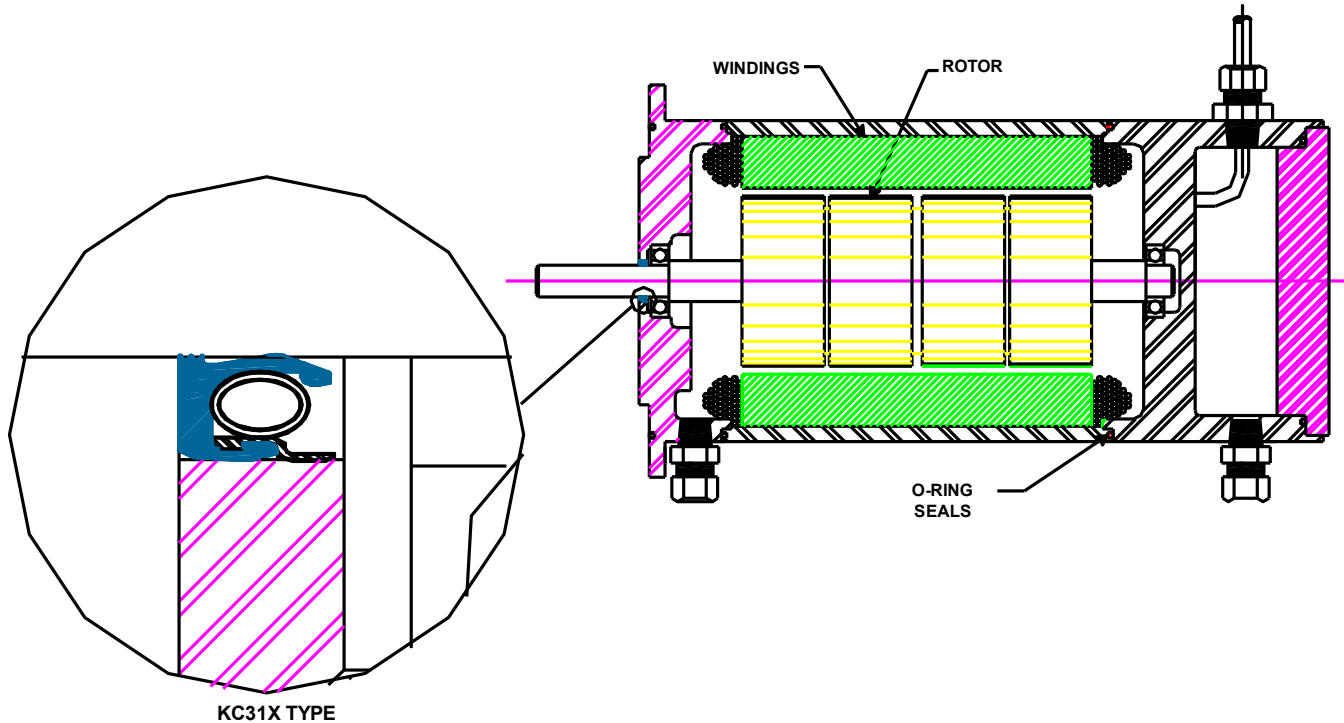


## BAL SEAL® SEALS IN WATERPROOF STEP MOTORS

Automation in the motion control industry often requires equipment to operate in the presence of water and aqueous fluids. Operating temperatures produce corrosive fluids inside a motor, drastically shortening the motor life. Bearings must be protected from the environment and the motor oil kept from weeping into the environment. The components must be protected so they operate freely and do not cause power loss or heat buildup.



### Operating Parameters

Pressure:	Atmospheric to 15 psi differential (1.1 kg/cm <sup>2</sup> )
Speed:	50 to 1,000 rpm
Temperature:	70°F (21°C)
Media:	Motor oil and environmental fluids
Additional:	Low friction and long life

### Seal Selection: KC31X

#### Features:

- Bal Seal series KC31X selected for its excellent press-in metal locking ring retention system.
- Excellent sealing performance in wide operating temperature range: -20°F to 550°F (-29°C to 288°C).
- Bearing grease kept from weeping into the environment, and environmental contamination kept out.
- Low-friction seal design minimizes heat buildup and power loss.
- Patented, canted-coil spring energizer provides near-constant force for long seal life.
- Excellent wear-resistant, filled PTFE seal materials operate unlubricated.

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

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 | [www.balseal.com](http://www.balseal.com)