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/cm²)
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 of −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
• Bal Spring® canted coil spring energizer provides near-constant force for long seal life
• Excellent wear-resistant, filled PTFE seal materials operate un lubricated

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