



## Hydraulic Hammer - KB26 Specialist Application

We were approached by one of our valued clients with a longstanding problematic sealing problem. The objective was to replace the conventional O-Ring and Back-Up Ring arrangement with a superior sealing setup.

### ASSESSMENT

After discussions and assessment of the issues, it was established that some of the key contributing factors to the failure of the existing products included cavitation/dieseling effect, large pressure fluctuations, excessive short cycle movement and spiral/seal-roll failure. This was due to the arduous service conditions these products are subjected to.

### SOLUTION

Our technical team took on board the application details, provided a proposal and worked closely with the client to evaluate our products. After extensive in-house and field trials, our KB26 profile provided a dramatic increase in lifespan, service intervals and general downtime. Assembly was also detailed as being far quicker and easier due to the one piece seal arrangement.

### RESULT

The customer reported that our solution solved their longstanding sealing problem and praised us on our high end products that support their business extremely well. They believe this contributes to their reputation as being a key manufacturer in their business marketplace.

### SEAL PROFILE

Our KB26 profile is a double acting/bi-directional seal, used when a compact seal, which can be utilised in both static and slow-moving applications, is required.

It is commonly used as a direct replacement for o-rings in both static and dynamic applications due to its ability to resist rolling and twisting in the groove under dynamic movement.

The seal is easy to install into closed grooves and with its high-pressure capability it is a very popular and economical head seal replacement where a combination of o-rings and back-up rings would normally be used together.

The KB26 offers superior pressure, wear and extrusion resistance in comparison to standard o-rings when one of our high-performance polyurethane materials is specified.

Pressure Max: 400 bar  
Temperature Min: -55 °C Max: 210 °C  
Speed Max: 0.7 m/s