



## V SEALS

V seals are unique all-rubber seals for rotary shafts. Developed in the 1960's, it has been used successfully by OEM and the replacement market world wide in a broad range of applications.

The V seal provides a perfect solution to prevent the ingress of dirt, dust, water or combinations of these media while positively retaining grease. With its unique design and performance the V seal protects a wide range of bearing types. It can also be used as a secondary seal to protect primary seals that do not perform well in hostile environments.

The V seal is normally stretched and mounted directly on the shaft, where it is positioned by the inherent tension of the rubber body. It rotates with the shaft and seals axially against a stationary counter face, at right angles to the shaft. The counter face can be the end face of a bearing or a washer, stamping, bearing housing, or even the metal case of oil seal. The sealing lip is flexible and applies only a relatively light contact pressure against the counter face and yet is still sufficient to maintain the sealing function. The low contact pressure (that varies with the fitted width) allows the seal to run dry in many applications.

Due to the centrifugal force, the contact pressure of the lip decreases with increased speed. This means that frictional losses and heat are kept to a minimum, resulting in excellent wear characteristics and extended seal life. Once break-away torque is overcome, the power losses reduce steadily until around the 10 – 15 m/s band when they reduce quite quickly. In the 15 – 20 m/s band, the losses reduce to zero and the V seal then serves as clearance seal and deflector.

V seals protect any bearing on a rotary shaft from ingress of foreign bodies.

[Click for relevant product below](#)

### Standard Seals

A Type V-seals  
S Type V-seals

### Non-Standard Seals

Please contact our Sales Dept.



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