



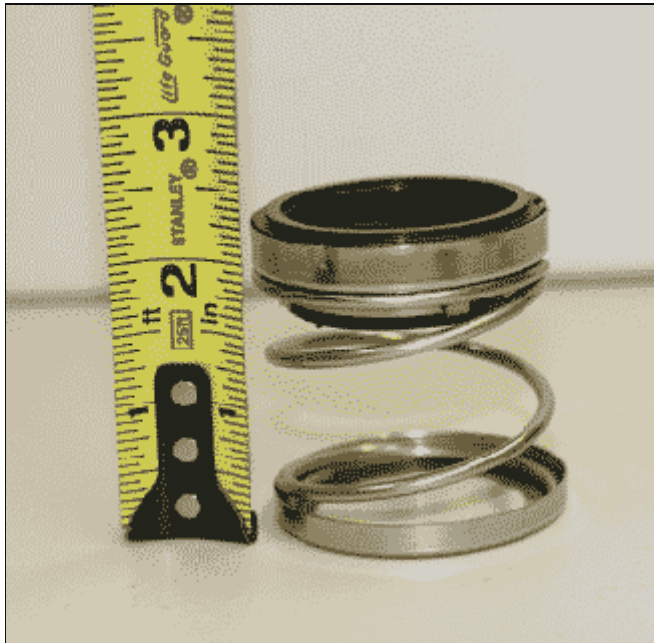
Sizing Single Spring Mechanical Seals for Identification

Finding a replacement seal for your existing single spring seal is not as difficult as you may think. As much as every seal manufacturer will tell you their seal is by far the best, the truth is they are all pretty much the same, design wise. The key is getting one that fits onto your shaft and into your pump. To accomplish that you are going to need to know some critical dimensions:

- 1) Shaft Size (or sleeve size) of your pump
- 2) Seal Head O.D.
- 3) Working Length of Rotating portion of the Seal
- 4) O.D. of the Stationary (or the bore dimension where the stationary press fits into).
- 5) Thickness of the Seat.



Measure the Seal Head I.D. Add approximately .016" to account for the squeeze the bellows must have to seal the shaft.



Measure the Rotating Units "Free Length"



Measure the Spring "Free Length"



Measure the seal head O.D. to be sure the seal will fit inside the stuffing box bore of the pump.

American Seal & Packing

Determine the "Working length" of the seal.

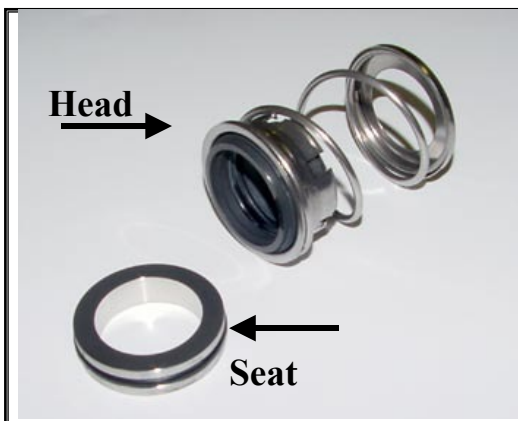
Spring "Free Length" / 2 = Spring compressed length

Rotating Units "Free Length" - Spring compressed length = Rotating Units "Working Length".

Because the seal you are measuring may be used, or from another manufacturer the working length is considered an approximation.

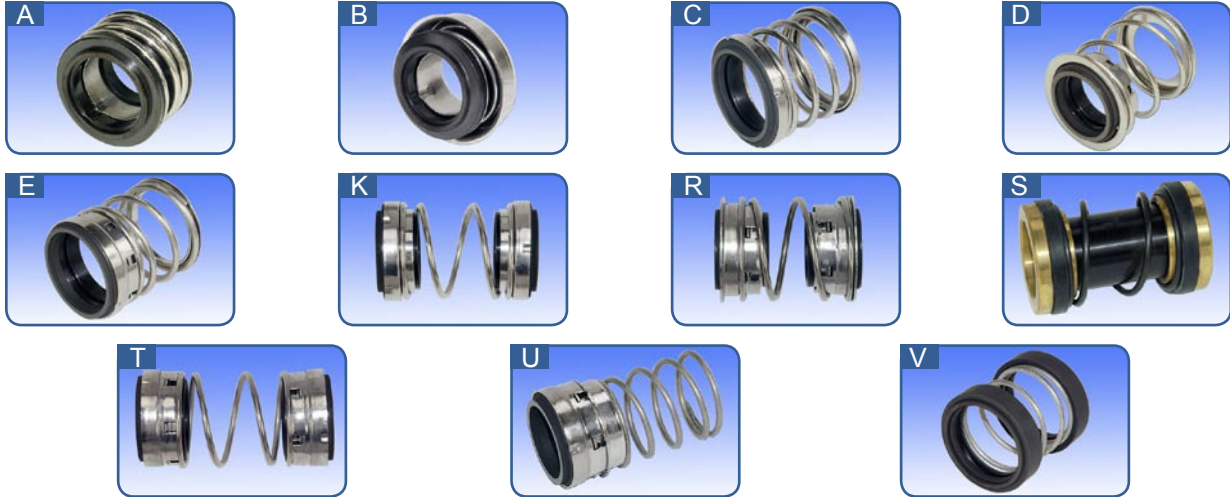


Measure the O.D. of the seat or measure the Bore the seat will press into. If measuring the Outside Dimension of the seat (as pictured) SUBTRACT approximately .016" to account for the rubber squeeze required for the interference fit of the seal.

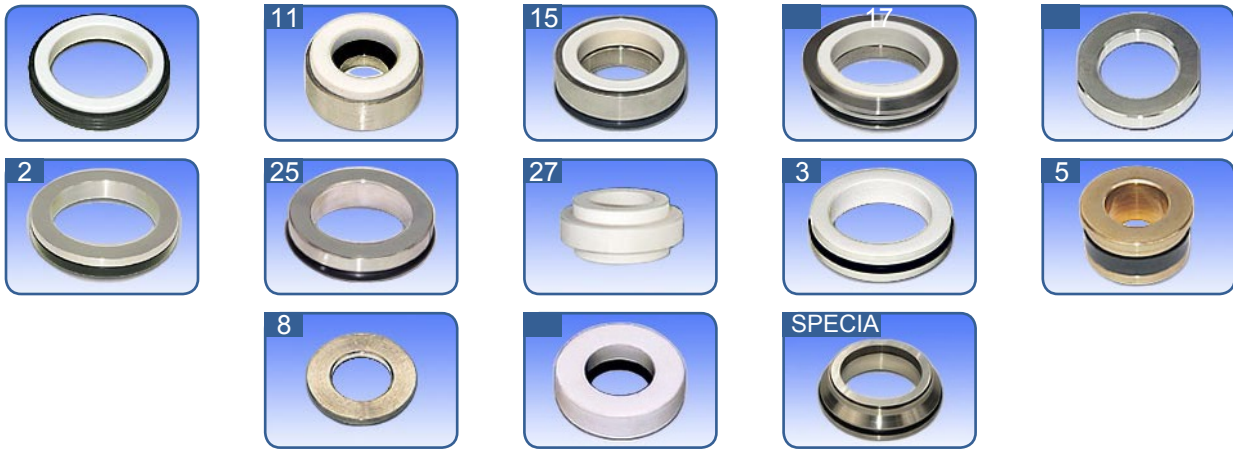


Once these measurements are known, the next thing is to identify the Head Type and Seat Type

Head Types



Seat Types



Mechanical Seal Material Codes

Elastomers

B. Buna
E. EPR
N. Neoprene
V. Viton®

Washers

A. Bronze
C. Carbon
M. Phenolic
S. Tool Steel
X. Silicon Carbide
Z. Tungsten

Metal Parts

D. Brass
E. Monel
F. Stainless Steel
P. Plated Steel
R. 316 Stainless

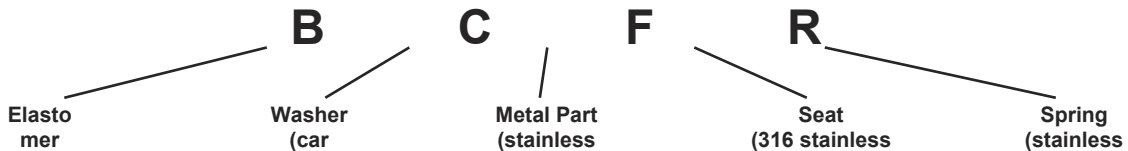
Seats

A. Bronze
G. Cast Iron
J. Ceramic
R. 316 Stainless Steel
S. Tool Steel
X. Silicon Carbide

Springs

E. Monel
F. Stainless Steel
P. Plated Steel
R. 316 Stainless

Viton® is a registered trade name of



Elastomer Temperature Limits Buna 225°F EPR 300°F Neoprene 175°F Viton 400°F

Pressure Limitations Type A & B Seals 75 P.S.I. Type C, D & E Seals 200 P.S.I.

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