



VEDOVELL Oil Seals

Oil Seals are a good resource for any application where foreign media such as oil, grease and dust are concerns. A variety of Lip, Case, and Spring materials are available for your review while you make your seal selection.

Lip, Case and Spring Materials

Lip Materials

Nitrile Buna-N 70 durometer compound is the standard material for our seals and is recommended for a majority of common applications. Nitrile lip seals work well within the temperature range of -65°F to 250°F and provide compatibility with water and most common mineral oil and greases.

Polyacrylate compounds are recommended for higher temperature applications, ranging from -30°F to 300°F. They also work well with mineral oils, EP additives and greases. However, they offer poor sealing in dry running conditions and cost more than Nitrile.

Silicone compounds offer the widest range of normal operating temperatures ranging from -90°F to 340°F. However, they do not perform well in dry running conditions, and should not be used with EP compounds and oxidized oils.

Viton® compounds are premium lip materials offering the widest temperature range and chemical resistance. Viton® will handle temperatures from -40°F to over 400°F (-40°C to over 240°C). Viton® will resist most special lubricants and chemicals that can destroy Nitrile, Polyacrylates and Silicones. Viton® is extremely resistant to abrasion and provides superior wear performance. Viton® works in dry running applications, but only for intermittent periods.

Graphite is available as an additive to any compound. Normally graphite is added at a 3% factor to aid in lubricity.

Case and Spring Materials

The cases and springs for our seal products are produced from carbon steel. In applications where corrosion resistance is important, either case or spring or both can be produced from stainless steel. In addition, rubber coated seals can provide the best resistance to corrosive environments in the most economical design. HYPALON® coating is an O.D. sealant which is available on any metal case design by customer request.

Lip, Case and Spring Tables

The following tables identify the most common lip and case designs. Additional, more complex designs are available for special applications; however, the lip and case designs below represent those which will fill the needs of most seal requirements.

Lip Design

The following designations indicate the configuration of the sealing members:

V = Single Lip	WS = Wiper w/Bronze Scraper
K = Double Lip	U = Triple Lip
S = Single Lip, Spring Loaded	D = Double Lip, Double Spring Loaded
OB = Oil Bath (Prefix)	WP = Wiper Lip Design
T = Double Lip, Spring Loaded	O = External Seal Type



VEDOVELL

Case and Spring Design

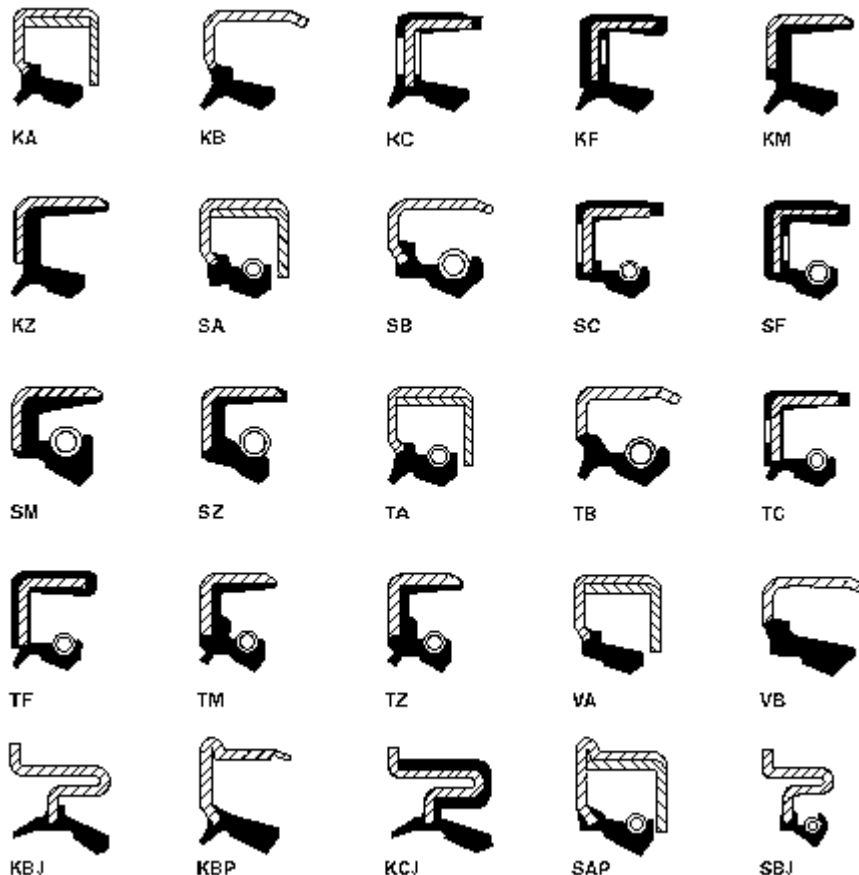
The following designations indicate the case type or any special features of the basic case designs. The designations for lip designs, attachment configuration and case style are then put together to indicate the specific seal type desired.

A = Double Case	M = Fully Rubberized Inner Case
B = Lip Attached to End of Case Only	N = Short Flex High Pressure Design
C = Fully Rubberized Casing	P = Flanged Case
E = Metal Reinforced Sealing Lip	Q = All Rubber Split Seal Design
F = Special Fully Encased Design	SP = Other Special Feature
G = Ridged Rubber Coated O.D.	X = Special Fitting Condition Design
H = Reverse Case Style	Y = Indented Back Case
J = Special Flanged Indented Case	Z = Rubber Covered Chamber

NOTE: Basic single case design has no designation

Oil Seal Lip Design Chart

The following Lip Seal designs are the most common, if your application calls for a design not listed below, please contact Vedovell.





VEDOVELL



SCJ



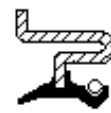
SH



SL



TAP



TBJ



TBP



TCJ



TEA



TEB



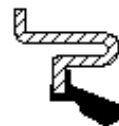
TEC



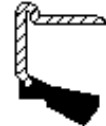
TL



VAP



VBJ



VBP



VCJ



VH



VHY



KG



OKA



DKB



OKC



OSA



OSB



OSC



OTA



OTB



OTC



OUA



OUB



OUC



OVA



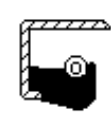
OVB



OVC



SEA



SEB



VEDOVELL



SEC



TXA



TXB



TXC



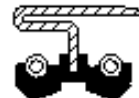
VAY



VG



DA



DB



DC



SCN



SG



SO



SQS



TCN



TG



VA



VB



VC



WPB



WPC



WPM



WPR

Viton® is a registered trademark of
DuPont® Dow Elastomers L.L.C.