

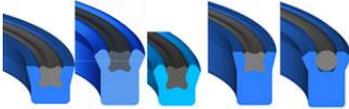
STANDARD SEAL



LIP SEAL

STD/DP/SQB/PTB/POLY-O

Loaded with O-Ring or X-Ring, the lip seal is used numerous oilfield applications from downhole, drilling jars, shock tools, drilling motors, downhole pumps, valves, and blow-out preventer. Materials are PU, Hytrel, HNBR, XNBR, Viton & Aflas. For both rod and piston applications.



U-CUP

ZBR

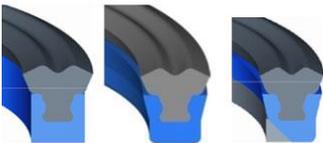
This asymmetrical Urethane U-Cup has a shorter, heavier sealing lip to achieve higher initial sealing force. The addition of a secondary seal lip provides added stability in the seal groove, which enhances the long term performance. For rod application only.



DEEP Z SEAL

Z/DZ/DZR

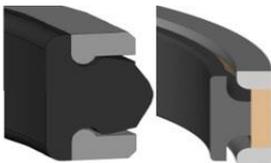
The lip configuration of these seals is to give both squeeze sealing force and lip sealing force. It offers redundant sealing lips for additional lip contact. DZ-seal is especially useful for cylinders with long stroke length. With an additional delta backup, DZR-seal is able to resist higher pressure. For rod application only.



T-SEAL

LTP/LCP

Both the LTP and LCP have locking backup design to prevent the backups being sheared off during assembly. Being bi-directional, they are used in both rod and piston applications.



BUFFER SEAL

R/RS/RB/RM

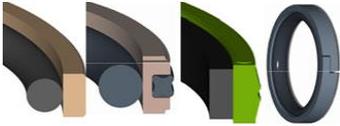
Buffer seal is used for extreme pressure spikes, so as to protect the rod seal. A slight rocking action occurs when the rod retracts to relieve the pressure trapped between the two seals. For rod application only.



PISTON RING

GH/APR/DPV/SCP

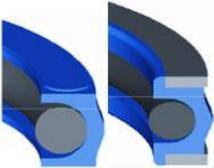
With a Nitrile energiser, this is for most high duty cycle linear actuators, with excellent pressure and life capability. The GH and APR have PTFE cap for low friction, with the APR having better sealability due to the inclusion of X-ring. The DPV has a premium urethane cap for high sealability, while the SCP has a high strength glass filled nylon cap for extended service life. Designed to retrofit standard O-ring grooves. For piston application only.



CROWN SEAL

CPV/CPB

With a loaded O-ring energiser, the beveled lip provides high sealability over prolonged period. CPV is recommended where axial space is limited, and is able to fit into standard O-ring grooves. CPB is designed to retrofit standard O-ring grooves with 1 or 2 backups, and is able to resist higher pressure. For both rod and piston applications.



COMPACT SEAL

MD-L/MD-R/KGD/DAS

This is a 5-piece piston seal incorporating guide rings.



WEAR GUIDE/ STRIP

WAT/WGT

Wear guide serves as a bearing and low cost replaceable wear surface. Wear rings are stocked in numerous sizes of glass filled nylon and can be custom machined in Phenolic, Nylon, and PTFE. Also available are wear ring strips.



WIPER

MC/PA/PADV/DX/959/D/H/K/DS/DT

Wipers are used to exclude the dirt on reciprocating shafts. They are used on valve stems, drilling motors, shock tools, drilling jars, downhole pumps, chemical injection pumps and MWD tools. Various styles are available depending on application. In the case of metal clad wipers like MC, SC and PADV, the metal retaining ring allows simple press fit assembly into a counterbore

