



Product Performance. Affordability. Availability.



Black Hawk Seals® is an innovative supplier of high quality, economically priced seals developed exclusively for the fluid power industry, available through select, authorized distributors. Engineered for the most demanding seal applications using the latest manufacturing technology, superior materials and industry knowledge.

## LOCAL SUPPORT WITH GLOBAL TECHNOLOGY & MANUFACTURING

### WHY BLACK HAWK?

- Developed exclusively for the fluid power industry
- Engineered for the most demanding applications
- Leading manufacturing technology
- Enhanced German, Japanese & US high quality material performance
- Market knowledge
- Well established supply chain
  - Affordability
  - Performance
  - Availability

### PRODUCTS – IMPERIAL & METRIC

- Piston Seals
- Rod Seals
- Buffer Seals
- Symmetric Seals
- Rod Wipers
- Wear Rings
- Static Seals
- Rotary Seals
- Pneumatic Seals
- Custom Seal Kits
- Industrial Seal Kits
- O-Ring Seal Kits
- OEM Replacement Seal Kits
- Oil Seals
- Mechanical Seals
- PTFE – Full Range (Spring & Elastomer Energized)
- Custom Seal Design
- Custom Rubber Products

### SERVICES PROVIDED

- Product Design
- Reverse Engineering
- Application Engineering Assistance
- Material Identification (FTIR)
- Product Testing
- Kitting
- Automated Inspection
- On-Site Technical Support
- Value Analysis
- Packaging
  - Bulk
  - Individual
  - Custom
- Inventory Management

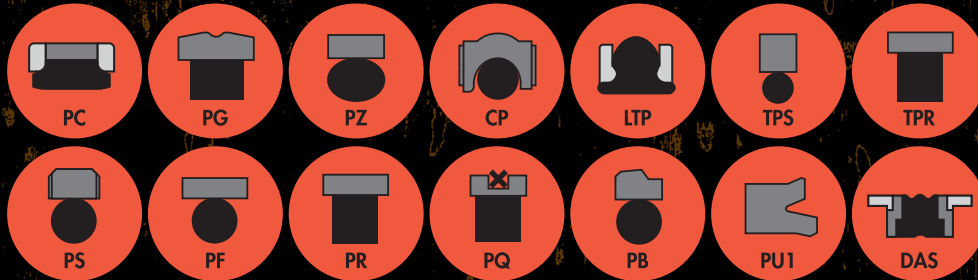
### MATERIALS

- **Vulcalon™** – Thermoset Rubber
  - Millable Polyurethanes
  - NBR, HNBR, XNBR
  - FKM, FFKM
  - EPDM
  - Silicone
  - Other Organic Rubbers
- **Rhinolon™** – Thermoplastic Polyurethanes
  - MDI, TODI, PPDI, Polycarbonate
- **Rhinolon™** – Thermoplastic Elastomers
  - TPEE (DuPont Hytrel)
- **Armourlon™** – Engineered Plastics
  - Nylon, POM, PEEK, PEI, UHMWPE
- **Tylon™** – PTFE & Modified PTFE
  - Virgin
  - Bronze
  - Glass Fiber
  - Polyimid
  - Carbon Fiber
  - Others
- **Polycot™** – Composites
  - Polyester Resin/Fabric
  - Phenolic Resin/Fabric

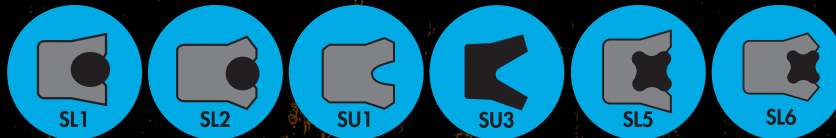


# Profiles

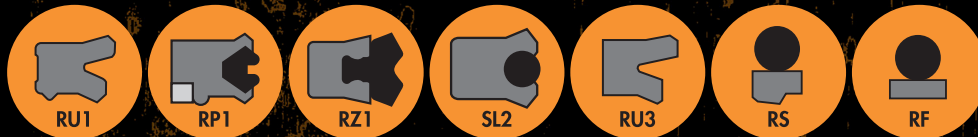
## PISTON SEAL PROFILES



## SYMMETRICAL SEAL PROFILES



## ROD SEAL PROFILES



## BUFFER SEAL PROFILES



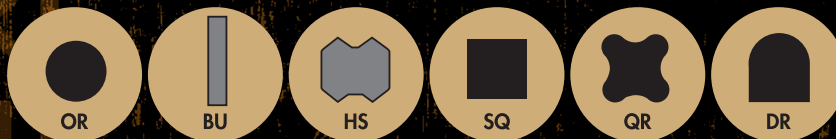
## ROD WIPER PROFILES



## WEAR RING PROFILES



## STATIC SEAL PROFILES



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