



# Seals profile catalogue

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# Polymeric Seals

FPE Seals is a worldwide distributor and manufacturer of polymeric seals and hydraulic cylinder parts for all engineered applications.

Our large stock of over 35,000 sealing products, available in metric or imperial sizes, in variety of different materials, means that we can respond rapidly to your order and be quick to dispatch.

- ✓ Range of styles including, piston, rod, wiper and rotary seals, static seals and guide rings
- ✓ Metric or imperial sizes available
- ✓ Offered in a variety of standard and specialist materials, including a Food and Drug Administration (FDA) approved range
- ✓ Composite and Flexiseal products available
- ✓ Off-the-shelf and custom-made seals for single or double-acting cylinders

## Some of the polymeric materials we offer;

- |                |         |                   |
|----------------|---------|-------------------|
| • Polyurethane | • HNBR  | • UHMWPE          |
| • Rubber       | • POM   | • Polyester       |
| • EPDM         | • Nylon | • Tufnol/Phenolic |
| • Viton/FKM    | • PTFE  | • AFLAS           |
| • Silicone     | • PEEK  | • NORSOK MATL     |

We pride ourselves on using our industry knowledge and technical expertise to deliver a high-quality, personal and efficient service.



# How to order

Whatever your need, our dedicated team will work with you to find the ideal solution as quickly as possible.

We offer same day dispatch internationally, to get you what you need, where you need it quickly, minimising your downtime and avoiding any further delays to your project.

## Main office:

 **Call** +44 (0)1325 282732

 **Email** [sales@fpeseals.com](mailto:sales@fpeseals.com)

## Visit our webstore and order today

 [www.fpeseals.com](http://www.fpeseals.com)

## Non-catalogue items

FPE Seals is constantly adding parts to stock. If you need an item that is not listed in catalogue please contact us or send us a sample of the item you require, along with the quantity required, and we will source, quote and order the parts for you.

## Quality Assurance

FPE Seals is ISO 9001 2015 registered, demonstrating our commitment to maintaining effective and efficient quality policies.

## Terms and Conditions

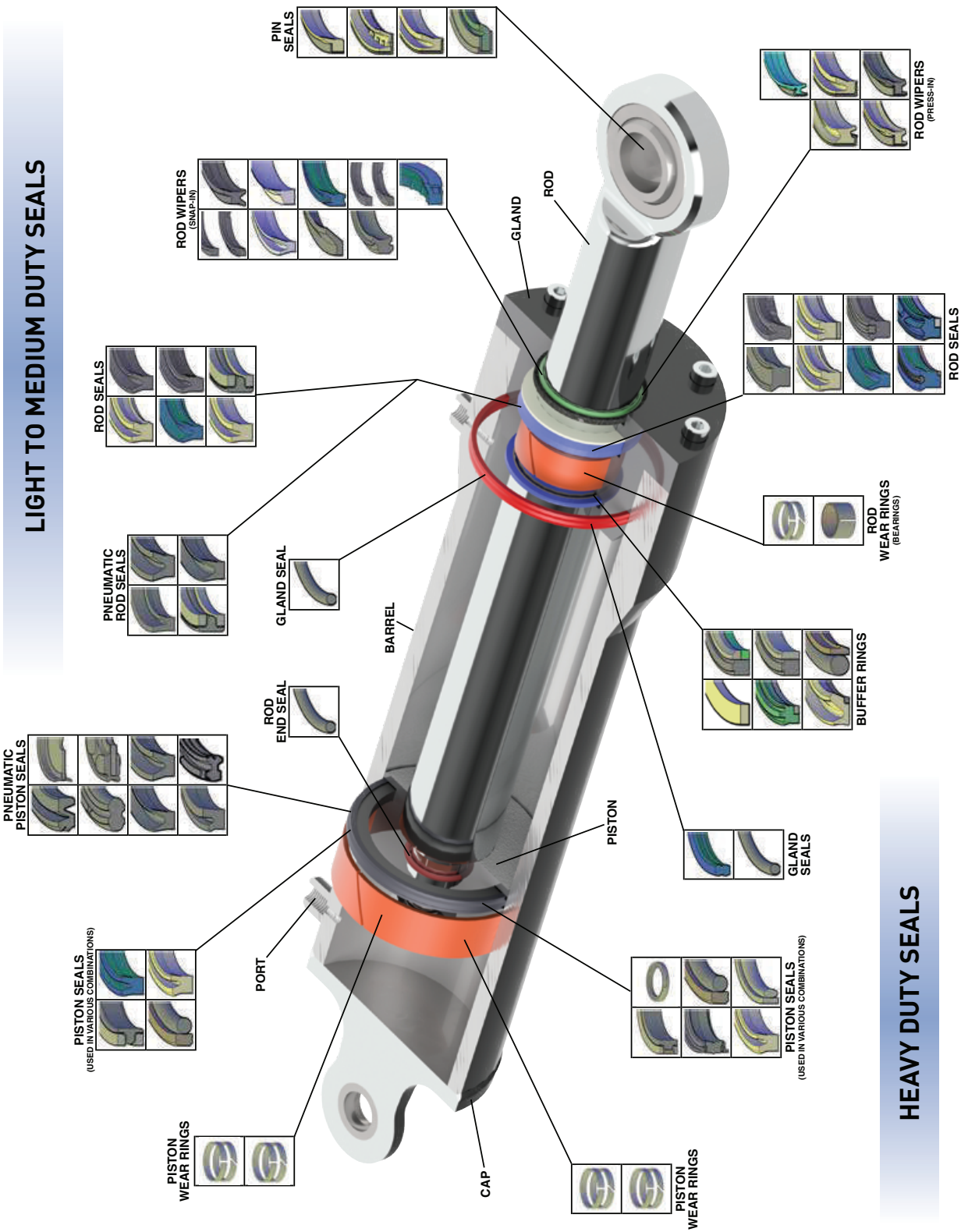
The specifications listed in this catalogue, such as size and tolerances are given as a guide only and may be subject to change or vary depending on manufacturer.

Please visit our website for details of our full terms and conditions including information regarding warranty, order cancellation, return or refunds.

## Express machined seals

Can't find what you need? Or maybe you are looking for something more bespoke? Our expert team of skilled technicians can design and create tailor-made products to suit your individual specification and timescales. We can design and manufacture just about any seal profile, in a full range of approved materials and will help advise on the best seal and material for the job in hand.

# Typical sealing components

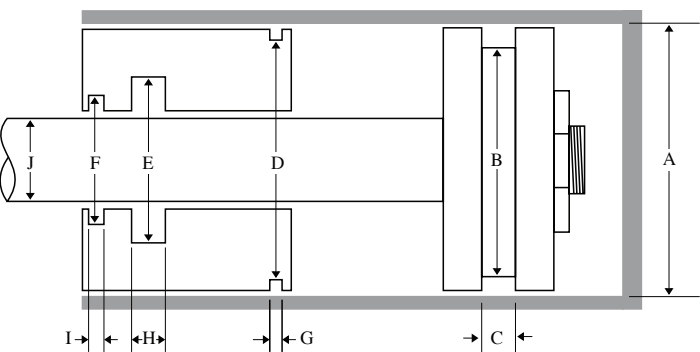


# How to size groove dimensions for seals

How often have you received a cylinder for repair and the seals were...

- ✓ MISSING
- ✓ SCARRED
- ✓ INCORRECT
- ✓ EXTRUDED
- ✓ FRACTURED
- ✓ TWISTED
- ✓ ROLLED
- ✓ SPLIT
- ✓ WORN OUT

This catalogue is a guide to help you identify the seal profile you need. Measuring the dimensions of an existing seal is also helpful when sourcing a replacement. Note the seal dimensions and refer to seal profile in this catalogue, then call our sales team with your information. Do not worry if you are unable to accurately measure or find the profile you need in this catalogue, our knowledgeable team will help find you what you need.



FOR A PROFESSIONAL ANALYSIS OF SEAL FAILURE, SEND YOUR DAMAGED SEALS TO YOUR NEAREST BRANCH

## Piston seals and bearings

### DIAGRAM REFERENCE

- A = Bore = Seal O.D.
- B = Groove Diameter = Seal I.D.
- C = Groove Width = Nominal Seal Width

### DIMENSIONS

## Rod seals and bearings

### DIAGRAM REFERENCE

- D = Gland Groove Diameter = Seal I.D.
- E = Rod Seal Groove Diameter = Seal O.D.
- F = Wiper Groove Diameter = Wiper O.D.
- G = Gland Groove Width = Nominal Seal Width
- H = Rod Seal Groove Width = Nominal Seal Width
- I = Wiper Groove Width = Base Width
- J = Rod Diameter = Seal & Wiper I.D.

### DIMENSIONS



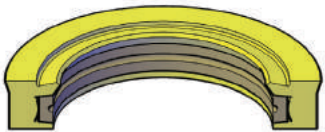
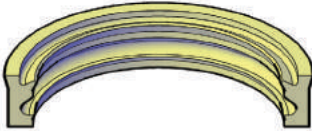
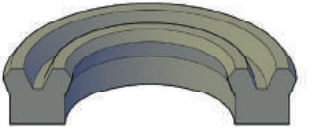
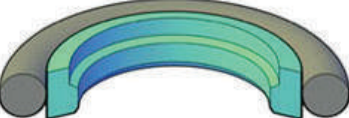
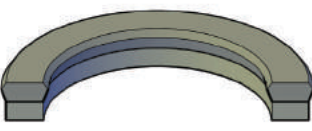
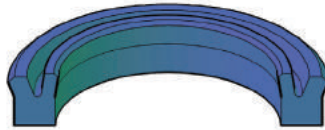
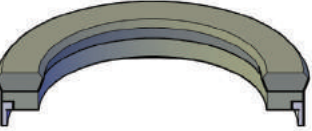
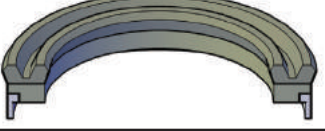
Seal Profile Index

| Type      | Prefix                                                         | Product Image | Profile | Material                                                 | Metric or Imperial |
|-----------|----------------------------------------------------------------|---------------|---------|----------------------------------------------------------|--------------------|
| ROD SEALS | SU-EU-EI-L-P<br>Energised Rod U-Seals with Anti-Extrusion Ring |               |         | Polyurethane Seal<br>Rubber Energiser<br>Polyacetal Ring | Metric & Imperial  |
|           | SU-EU-L-P<br>Quad Ring Energised Rod USeals                    |               |         | Polyurethane Seal<br>Rubber Energiser                    | Imperial           |
|           | SU-L-P<br>Asymmetric Twin Lip Rod U-Seals                      |               |         | Polyurethane                                             | Metric & Imperial  |
|           | SU-DI-P-P95<br>Polyurethane Rod U-Seals                        |               |         | Polyurethane                                             | Imperial           |
|           | SU-DI-R<br>Rubber Rod U-Seals                                  |               |         | Rubber                                                   | Metric & Imperial  |
|           | SU-DI-P<br>Heavy Duty Rod U-Seals                              |               |         | Polyurethane                                             | Metric & Imperial  |
|           | SU-EI-P<br>Rod U-Seals with Anti-Extrusion Ring                |               |         | Polyurethane Seal<br>Polyacetal Anti-Extrusion Ring      | Imperial           |
|           | SA-EI<br>Rod Seal                                              |               |         | Rubber, Fabric Seal, Acetal Anti-Extrusion Ring          | Metric & Imperial  |
|           | SA-BR-M<br>Rod Seal w/Headers                                  |               |         | Rubber, Fabric, Polyester Elastomer                      | Metric & Imperial  |
|           | SU-DI-L-P<br>Polyurethane U-Seals with Multi Sealing Lips      |               |         | Polyurethane                                             | Metric & Imperial  |
|           | SU-DI-L-R<br>Rubber U-Seals with Multi Sealing Lips            |               |         | Rubber                                                   | Imperial           |

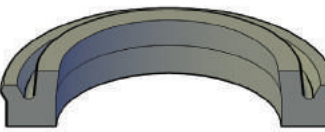
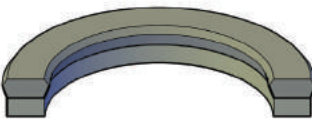
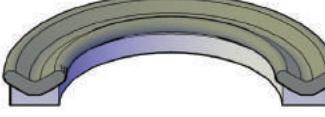
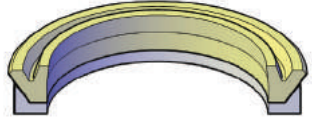
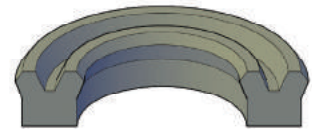
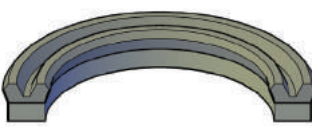
Seal Profile Index

| Type      | Prefix                                            | Product Image | Profile | Material                                                                      | Metric or Imperial |
|-----------|---------------------------------------------------|---------------|---------|-------------------------------------------------------------------------------|--------------------|
| ROD SEALS | SU-DI-P PNEU<br>Rod U-Seals Pneumatic Application |               |         | Polyurethane                                                                  | Imperial           |
|           | SU-TS-EI-L-P<br>Rod U-Seals                       |               |         | Polyurethane<br>Polyacetal Anti-Extrusion Ring                                | Metric             |
|           | SU-DI-P-MBK<br>Rod U-Seals w/Back-Up Rings        |               |         | Polyurethane U-Seal<br>Nylon Back-Up                                          | Metric             |
|           | SU-TS-L-P<br>Rod U-Seals                          |               |         | Polyurethane                                                                  | Metric             |
|           | SU-TS-P<br>Rod U-Seals                            |               |         | Polyurethane                                                                  | Metric             |
|           | SU-TS-EI-L-P<br>Rod U-Seals                       |               |         | 94A Polyurethane                                                              | Metric             |
|           | SU-DI-R<br>Rod U-Seals                            |               |         | Rubber                                                                        | Metric             |
|           | SU-DI-R-MBK<br>Rod U-Seals w/Back-up Rings        |               |         | Rubber Seal<br>Bronze Filled PTFE Back-Up                                     | Metric             |
|           | GM-EI<br>Rod Seal w/Back-Up Rings                 |               |         | NBR Seal<br>PU, Acetal, or Fabric/Rubber Header<br>Acetal Anti-Extrusion Ring | Metric & Imperial  |
|           | SU-DI-R-PNEU<br>Rod U-Seals Pneumatic Application |               |         | Rubber                                                                        | Metric & Imperial  |

Seal Profile Index

| Type         | Prefix                                  | Product Image                                                                       | Profile                                                                             | Material                                                      | Metric or Imperial |
|--------------|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------|
| ROD SEALS    | SU-P-TDI<br>Hunger® Hydraulic Rod Seals |    |    | Polyurethane<br>Bronze PTFE                                   | Metric             |
|              | SU-DI-L-P<br>Hunger® Rod Seals          |    |    | Polyurethane                                                  | Metric             |
|              | SU-R<br>Symmetrical U-Seals             |    |    | Rubber                                                        | Metric & Imperial  |
|              | SA-P-GR<br>Symmetrical U-Seals          |    |    | U-Seal<br>Fabric<br>Reinforced Base                           | Metric & Imperial  |
|              | RC-170-B<br>Rod Seals                   |   |    | Filled PTFE Buffer<br>Rubber<br>Energiser                     | Metric & Imperial  |
|              | RC-170-P<br>Rod Seals                   |  |  | Polyurethane<br>Buffer<br>Rubber<br>Energiser                 | Metric             |
|              | SA-P<br>Symmetrical Plain Seals         |  |  | Rubber Seal<br>Fabric<br>Reinforced Base                      | Metric & Imperial  |
| PISTON SEALS | SU-DE-P<br>Piston U-Seals               |  |  | Polyurethane                                                  | Metric & Imperial  |
|              | SA-WO<br>Piston Seals                   |  |  | Rubber / Fabric<br>Seal<br>Polyacetal Guide<br>Ring           | Metric & Imperial  |
|              | SU-EO-GR<br>Piston U-Seals              |  |  | Rubber / Fabric<br>Seal<br>Polyacetal Anti-<br>Extrusion Ring | Metric & Imperial  |
|              | SU-WO-GR<br>Piston U-Seals              |  |  | Rubber / Fabric<br>Seal<br>Polyacetal Guide<br>Ring           | Metric & Imperial  |

Seal Profile Index

| Type         | Prefix                                                  | Product Image                                                                         | Profile                                                                               | Material                                                     | Metric or Imperial |
|--------------|---------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------|
| PISTON SEALS | SU-DE-R-PNEU<br>Piston U-Seals<br>Pneumatic Application |    |    | Rubber                                                       | Metric & Imperial  |
|              | SA-P<br>Symmetrical Plain Seals                         |    |    | Rubber Seal<br>Fabric<br>Reinforced Base                     | Metric & Imperial  |
|              | SU-WO-R<br>U-Type Two Piece Piston Seals                |    |    | Rubber Seal Nylon<br>Back-Up                                 | Metric             |
|              | SU-EO<br>U-Type Piston Seals                            |    |    | Rubber<br>Polyurethane<br>Polyacetal Anti-<br>Extrusion Ring | Metric             |
|              | SU-BR-R<br>U-Type Piston Seals                          |   |    | Rubber Piston Seal<br>Nylon<br>Back-Up                       | Metric             |
|              | SU-DE-BR-P<br>U-Type Piston Seals                       |  |  | Polyurethane<br>Piston Seal<br>Nylon<br>Back-Up              | Metric             |
|              | SU-DE-P-PNEU<br>Piston U-Seals<br>Pneumatic Application |  |  | Polyurethane                                                 | Metric & Imperial  |
|              | SU-R<br>Symmetrical U-Seals                             |  |  | Rubber                                                       | Metric & Imperial  |
|              | SA-P-GR<br>Symmetrical U-Seals                          |  |  | Rubber U-Seal<br>Fabric<br>Reinforced Base                   | Metric & Imperial  |
|              | PC-200-G<br>Piston Seals                                |  |  | Glass Filled<br>PTFE Piston Seal<br>Rubber<br>Energiser      | Imperial           |
|              | PC-200-P<br>Piston Seals                                |  |  | Polyurethane Seal<br>Rubber<br>Energiser                     | Imperial           |

Seal Profile Index

| Type         | Prefix                      | Product Image | Profile | Material                                                           | Metric or Imperial |
|--------------|-----------------------------|---------------|---------|--------------------------------------------------------------------|--------------------|
| PISTON SEALS | PC-200-SQ-G<br>Piston Seals |               |         | Glass Filled PTFE<br>Piston Seal<br>Rubber<br>Energiser            | Imperial           |
|              | PC-200-SQ-B<br>Piston Seals |               |         | Bronze Filled PTFE<br>Piston Seal<br>Rubber<br>Energiser           | Imperial           |
|              | PC-200-SQ-P<br>Piston Seals |               |         | Poly-Trel™<br>Seal<br>Thermoplastic<br>Rubber Energiser            | Imperial           |
|              | PC-210-SQ-P<br>Piston Seals |               |         | 55D<br>Polyester<br>Piston Seal<br>Rubber<br>Energiser             | Metric & Imperial  |
|              | PC-210-P<br>Piston Seals    |               |         | 97A<br>Polyurethane Seal<br>70A Nitrile<br>Energiser               | Metric             |
|              | PC-210-SQ-P<br>Piston Seals |               |         | Polyurethane Seal<br>Rubber<br>Energiser                           | Imperial           |
|              | PC-PSU<br>Piston Seals      |               |         | Polyurethane                                                       | Imperial           |
|              | PC-210-SQ-P<br>Piston Seals |               |         | 94A<br>Polyurethane Seal<br>70/80A Rubber<br>Energiser             | Metric             |
|              | PC-210-B<br>Piston Seals    |               |         | Bronze Filled PTFE<br>Piston Seal<br>Rubber<br>Energiser           | Metric & Imperial  |
|              | PC-280-SQ-B<br>Piston Seals |               |         | Bronze Filled PTFE<br>Piston Seal<br>Rubber Energiser<br>Quad Ring | Imperial           |
|              | PC-280<br>Piston Seals      |               |         | Bronze Filled PTFE<br>Piston Seal<br>Rubber Energiser<br>Quad Ring | Metric             |

Seal Profile Index

| Type         | Prefix                                      | Product Image | Profile | Material                                                                  | Metric or Imperial |
|--------------|---------------------------------------------|---------------|---------|---------------------------------------------------------------------------|--------------------|
| PISTON SEALS | PC-280<br>Piston Seals                      |               |         | Bronze Filled PTFE<br>Piston Seal<br>Rubber Energiser<br>Quad Ring        | Metric             |
|              | PC-200-Z-NYL<br>Step Cut<br>Piston Seals    |               |         | Glass Filled<br>Nylon Piston Seal<br>Rubber<br>Energiser                  | Imperial           |
|              | PC-200-SQ-Z-NYL<br>Step Cut<br>Piston Seals |               |         | Glass Filled<br>Nylon Piston Seal<br>Rubber<br>Energiser                  | Metric & Imperial  |
|              | DM-WO<br>Solid-Piston<br>Seals              |               |         | Rubber Seal<br>Nylon<br>Back-Up<br>Nylon<br>Bearing                       | Metric & Imperial  |
|              | DM-WO<br>Solid-Piston<br>Seals              |               |         | Rubber Seal<br>Polyacetal<br>Anti-Extrusion Ring                          | Metric & Imperial  |
|              | DM-WO<br>Solid-Piston<br>Seals              |               |         | Rubber<br>Piston Seal<br>Polyacetal<br>Anti-Extrusion Ring<br>& Bearings  | Imperial           |
|              | DM-LO<br>Solid-Piston<br>Seals              |               |         | Rubber Seal<br>PTFE<br>Back-Up<br>Polyacetal<br>Anti-Extrusion Ring       | Imperial           |
|              | DM-WO<br>Solid-Piston<br>Seals              |               |         | Fabric<br>Reinforced<br>Piston Seal<br>Polyacetal Anti-<br>Extrusion Ring | Metric             |
|              | DM-WO<br>Solid-Piston<br>Seals              |               |         | TPE Cap<br>Nitrile<br>Energiser<br>Polyacetal Anti-<br>Extrusion Rings    | Metric             |
|              | DA-WO<br>Split-Piston<br>Seals              |               |         | Fabric<br>Reinforced<br>Piston Seal<br>Polyacetal<br>Anti-Extrusion Ring  | Metric & Imperial  |
|              | DA-LW<br>Split-Piston<br>Seals              |               |         | Fabric<br>Reinforced<br>Piston Seal<br>Polyacetal Anti-<br>Extrusion Ring | Metric & Imperial  |

Seal Profile Index

| Type         | Prefix                                               | Product Image | Profile | Material                                  | Metric or Imperial |
|--------------|------------------------------------------------------|---------------|---------|-------------------------------------------|--------------------|
| PISTON SEALS | DA-WO<br>Split-Piston<br>Seals                       |               |         | Nitrile<br>Plastic<br>POM                 | Metric             |
|              | DM-GKD<br>Hunger®<br>Multi-Piece<br>Piston Seals     |               |         | Bronze PTFE<br>Polyurethane<br>Filled POM | Metric             |
|              | DM-GD1000K<br>Hunger®<br>Multi-Piece<br>Piston Seals |               |         | Bronze PTFE<br>Polyurethane<br>Filled POM | Metric             |
|              | SU-DE-P-TDA<br>Hunger®<br>Hydraulic<br>Piston Seals  |               |         | Bronze PTFE<br>Polyurethane               | Metric             |
|              | SU-DE-P-TDMA<br>Hunger®<br>Hydraulic<br>Piston Seals |               |         | Bronze PTFE<br>Polyurethane               | Metric             |
|              | CP-P<br>Piston Seals                                 |               |         | Polyurethane Seal<br>Rubber<br>Energiser  | Imperial           |
|              | PR<br>Iron<br>Piston Rings                           |               |         | Iron                                      | Metric & Imperial  |
|              | TDUOH<br>Hydraulic DA<br>Piston Seals                |               |         | 90 Rubber Shore                           | Metric             |
|              | TDUOP-DE<br>Hydraulic DA<br>Piston Seals             |               |         | 70 Rubber Shore                           | Metric             |
|              | TDUOP<br>Pneumatic DA<br>Piston Seals                |               |         | 75 Rubber Shore                           | Metric             |

Seal Profile Index

| Type         | Prefix                                                 | Product Image | Profile | Material                                                         | Metric or Imperial |
|--------------|--------------------------------------------------------|---------------|---------|------------------------------------------------------------------|--------------------|
| PISTON SEALS | AIRZET<br>Pneumatic<br>DA<br>Piston Seals              |               |         | 70 Shore Rubber                                                  | Metric             |
|              | AIRZET-PSD<br>Pneumatic<br>DA<br>Piston Seals          |               |         | 70 Shore<br>Rubber                                               | Metric             |
|              | AIRZET-PSD<br>Pneumatic<br>DA<br>Piston Seals          |               |         | 80 Shore<br>Rubber                                               | Metric             |
|              | MBK-SC-D<br>Piston Seal<br>Anti-<br>Extrusion<br>Rings |               |         | Nylon                                                            | Metric             |
|              | SC-FB-R<br>Piston Cups                                 |               |         | Rubber                                                           | Imperial           |
|              | SC-FB-P<br>Piston Cups                                 |               |         | Polyurethane                                                     | Imperial           |
|              | SC-FB-F<br>Neo Fab<br>Piston Cups                      |               |         | Fabric<br>Reinforced Rubber                                      | Imperial           |
|              | TDUOP<br>One Piece<br>Double<br>Acting<br>Piston Cups  |               |         | Rubber Lip<br>Zinc Coated<br>Steel Plate                         | Imperial           |
|              | MP/JD/NH<br>Unitized<br>Pistons                        |               |         | Steel Piston<br>Glass Filled<br>PTFE Seal<br>Rubber<br>Energiser | Metric & Imperial  |

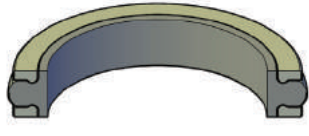
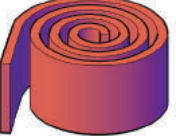
Seal Profile Index

| Type         | Prefix                                           | Product Image | Profile | Material                                   | Metric or Imperial |
|--------------|--------------------------------------------------|---------------|---------|--------------------------------------------|--------------------|
| U-SEALS      | <b>SU-P</b><br>Symmetrical U-Seals               |               |         | Polyurethane                               | Metric & Imperial  |
|              | <b>SU-EU-Q-P</b><br>Energised U-Seals            |               |         | Polyurethane Seal Rubber Energiser         | Metric & Imperial  |
|              | <b>SU-EU-Z</b><br>Z-Seals                        |               |         | Polyurethane Base Rubber Lip               | Imperial           |
|              | <b>SU-EU-O-P</b><br>O-Ring Energised Rod U-Seals |               |         | Polyurethane Seal Rubber Energiser         | Imperial           |
|              | <b>MBK-PRC</b><br>Support Ring for SU-EU-O-P     |               |         | Polyurethane                               | Imperial           |
| BUFFER SEALS | <b>SU-EI-P</b><br>Rod Buffer Seals               |               |         | Polyurethane Seal Polyacetal Back-Up       | Metric & Imperial  |
|              | <b>SU-EI-P</b><br>Caterpillar® Specific Buffers  |               |         | DYR Style, Polyurethane Polyacetal Back-Up | Imperial           |
|              | <b>RC-SQ-B</b><br>Buffer Seals                   |               |         | Bronze PTFE Buffer Rubber Energiser        | Imperial           |
|              | <b>SU-DI-P-KYB</b><br>Buffer Seals               |               |         | Polyurethane                               | Metric             |
|              | <b>RC-110-SQ-EI-B</b><br>Buffer Seals            |               |         | Nylon / PTFE Buffer Rubber Energiser       | Metric             |

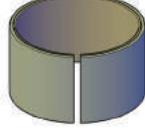
Seal Profile Index

| Type         | Prefix                                              | Product Image | Profile | Material                                                              | Metric or Imperial |
|--------------|-----------------------------------------------------|---------------|---------|-----------------------------------------------------------------------|--------------------|
| BUFFER SEALS | <b>RC-110-SQ-N</b><br>Buffer Seals                  |               |         | Nylon Buffer Rubber Energiser                                         | Metric             |
|              | <b>RC-110-SQ-B</b><br>Buffer Seals                  |               |         | Filled PTFE Buffer Rubber Energiser                                   | Metric             |
|              | <b>MBK-P</b><br>Buffer Seals                        |               |         | Polyurethane Buffer                                                   | Metric             |
|              | <b>SU-TS-EI-P</b><br>Buffer Seals                   |               |         | 93A Polyurethane                                                      | Metric             |
| VEE-PACKING  | <b>VP-HDLV</b><br>Hydrolocking Vee Packing Sets     |               |         | Hytrel & Nylon                                                        | Imperial           |
|              | <b>VP</b><br>Vee Packing                            |               |         | Rubber, Polyurethane, FKM, Rubber / Fabric Seal Polyacetal Guide Ring | Metric & Imperial  |
|              | <b>VP-VEE-F</b><br>Individual Vee Rings & Adaptors  |               |         | Fabric Reinforced Rubber, Polyurethane & Nylon Ring                   | Imperial           |
|              | <b>VP-VEE-VP</b><br>Individual Vee Rings & Adaptors |               |         | PTFE                                                                  | Imperial           |
|              | <b>VP-VEE-R</b><br>Individual Vee Rings & Adaptors  |               |         | Rubber                                                                | Imperial           |

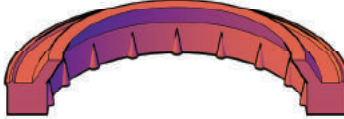
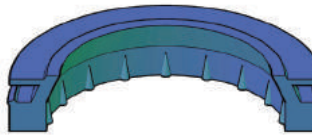
Seal Profile Index

| Type        | Prefix                             | Product Image                                                                       | Profile                                                                             | Material                                                    | Metric or Imperial |
|-------------|------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------|
| T-SEALS     | CR-T<br>Rod T-Seals                |    |    | Rubber Seal with Plastic Anti-Extrusion Rings               | Imperial           |
|             | CP-T<br>Piston T-Seals             |    |    | Rubber Seal with Plastic Anti-Extrusion Rings               | Imperial           |
|             | CP-L<br>Locking Piston T-Seals     |    |    | Rubber Seal Hard Plastic Back-Up                            | Imperial           |
|             | PC-200K-B<br>Capped Piston T-Seals |    |    | PTFE Cap Nylon Anti-Extrusion Ring Rubber Energiser         | Metric & Imperial  |
|             | PC-200K-P<br>Capped Piston T-Seals |   |   | Polyurethane Cap Nylon Anti-Extrusion Ring Rubber Energiser | Metric & Imperial  |
| GUIDE RINGS | BT-B<br>Flexible Guide Strip       |  |  | PTFE                                                        | Metric & Imperial  |
|             | BT-FPR<br>Flexible Guide Strip     |  |  | Fabric Reinforced Polyester                                 | Metric & Imperial  |
|             | BR-PH<br>Guide Rings               |  |  | Phenolic                                                    | Metric & Imperial  |
|             | BR-GF<br>Guide Rings               |  |  | Glass Filled Nylon                                          | Metric & Imperial  |
|             | BR-FRPR<br>Guide Rings             |  |  | Fabric Reinforced Polyester Resin                           | Metric             |

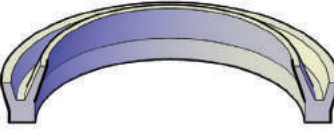
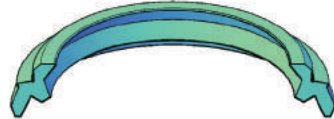
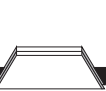
Seal Profile Index

| Type        | Prefix                            | Product Image                                                                         | Profile                                                                               | Material                                        | Metric or Imperial |
|-------------|-----------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------|--------------------|
| GUIDE RINGS | BR-GM<br>Guide Rings              |    |    | Filled PTFE                                     | Metric             |
|             | BR-GM-SOLID<br>Guide Rings        |    |    | Filled PTFE                                     | Metric             |
|             | BR-NYL<br>Guide Rings             |    |    | Nylon                                           | Metric & Imperial  |
|             | BR-PB<br>Hercules® Powerbands     |    |    | Nylon, Glass Fiber PTFE Blend                   | Imperial           |
|             | LW<br>L-Shaped Piston Guide Rings |   |   | Acetal                                          | Imperial           |
|             | BR-L<br>L-Shaped Rod Guide Rings  |  |  | Acetal                                          | Metric             |
|             | MB<br>Rod Bushings                |  |  | Bronze Lining PTFE / Lead Overlay Steel Backing | Metric & Imperial  |
|             | BR-FAI-D<br>Hunger® Guide Rings   |  |  | POM-PTFE/Bronze                                 | Metric             |
|             | BR-FA-D<br>Hunger® Guide Rings    |  |  | POM-PTFE/Bronze                                 | Metric             |
|             | BR-FI-D<br>Hunger® Guide Rings    |  |  | POM-PTFE/Bronze                                 | Metric             |

Seal Profile Index

| Type        | Prefix                                                    | Product Image                                                                       | Profile                                                                             | Material                            | Metric or Imperial |
|-------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------|--------------------|
| WIPER SEALS | WR-AN<br>Snap-In<br>Wipers                                |    |    | Polyurethane & Fluorocarbon         | Metric & Imperial  |
|             | WR-M-P-SH<br>Snap-In Wiper<br>Rings<br>w/ Slotted<br>Heel |    |    | 90A Polyurethane                    | Imperial           |
|             | WR-M-XL-P<br>Snap-In<br>Wipers                            |    |    | 55D Polyester                       | Imperial           |
|             | WR-A6-P<br>Snap-In<br>Wipers                              |    |    | Polyurethane                        | Metric & Imperial  |
|             | WR-M-P<br>Snap-In<br>Wipers                               |   |   | Polyurethane                        | Metric & Imperial  |
|             | WR-UL<br>Snap-In<br>Wipers                                |  |  | Polyurethane, Rubber & Fluorocarbon | Imperial           |
|             | WR-S<br>Snap-In<br>Wipers                                 |  |  | Polyurethane                        | Imperial           |
|             | WR-S<br>Snap-In<br>Wipers                                 |  |  | Rubber                              | Imperial           |
|             | WR-SU<br>Snap-In<br>Wipers                                |  |  | Polyurethane Rubber                 | Imperial           |
|             | WR-C<br>Snap-In<br>Wipers                                 |  |  | Rubber                              | Imperial           |
|             | WR-OR-P<br>Snap-In<br>Wipers                              |  |  | Polyurethane                        | Imperial           |

Seal Profile Index

| Type        | Prefix                                         | Product Image                                                                         | Profile                                                                               | Material                     | Metric or Imperial |
|-------------|------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------|--------------------|
| WIPER SEALS | WR-B-R<br>Snap-In<br>Wipers                    |    |    | Rubber                       | Imperial           |
|             | WR-Y<br>Snap-In<br>Wipers                      |    |    | Nylon                        | Metric & Imperial  |
|             | WR-DA24-P<br>Snap-In<br>Wipers                 |    |    | Polyurethane                 | Metric             |
|             | WR-UL-R<br>Snap-In<br>Wipers                   |    |    | Rubber                       | Metric             |
|             | WR-AI<br>Snap-In<br>Wipers                     |   |   | Polyurethane Rubber          | Metric             |
|             | WR-DA-R<br>Snap-In<br>Wipers                   |  |  | 90 Shore Rubber              | Metric             |
|             | WR-M-R<br>Snap-In<br>Wipers                    |  |  | Rubber                       | Metric & Imperial  |
|             | WR-DK<br>Snap-In<br>Wipers                     |  |  | Rubber                       | Metric             |
|             | WC-590<br>PTFE<br>Wipers                       |  |  | PTFE/Rubber                  | Metric             |
|             | WR-S34<br>Seal Guard<br>Metallic<br>Rod Wipers |  |  | Bronze Ring Rubber Energiser | Imperial           |
|             | WR-MC-BRASS<br>Metallic Rod<br>Wipers          |  |  | Brass                        | Imperial           |

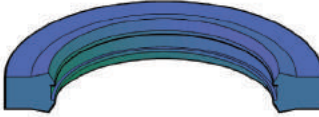
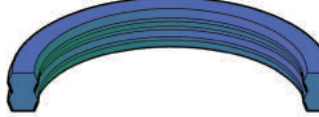
Seal Profile Index

| Type        | Prefix                                    | Product Image | Profile | Material                                    | Metric or Imperial |
|-------------|-------------------------------------------|---------------|---------|---------------------------------------------|--------------------|
| WIPER SEALS | WR-MC-UL-P<br>Metal Clad Wipers           |               |         | Polyurethane Lip<br>Steel Case              | Metric & Imperial  |
|             | WR-MC-U-P<br>Heavy Duty Metal Clad Wipers |               |         | Polyurethane Lip<br>Steel Case              | Metric & Imperial  |
|             | WR-MC-U-R<br>Metal Clad Wipers            |               |         | Rubber Lip<br>Steel Case                    | Metric & Imperial  |
|             | WR-MC-R<br>Metal Clad Wipers              |               |         | Rubber Lip<br>Steel Case                    | Metric & Imperial  |
|             | WR-MC-UL-P<br>Metal Clad Wipers           |               |         | Polyurethane Lip<br>Steel Case              | Metric & Imperial  |
|             | WR-MC-P<br>Snap-In Wipers                 |               |         | Polyurethane Lip<br>Steel Case              | Metric             |
|             | WR-MC-U-P<br>Metal Clad Wipers            |               |         | Polyurethane Lip<br>Steel Case<br>SS Spring | Metric             |
|             | WR-MC-UL-R<br>Metal Clad Wipers           |               |         | Rubber Lip<br>Steel Case                    | Metric             |
|             | WR-M-OW-P<br>Snap-In Wipers               |               |         | 93A<br>Polyurethane                         | Metric             |
|             | SS<br>Oil Seals                           |               |         | Rubber Lip<br>Steel Case                    | Metric & Imperial  |
| OIL SEALS   | WR-VA<br>Oil Seals                        |               |         | Rubber                                      | Metric             |

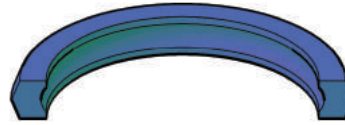
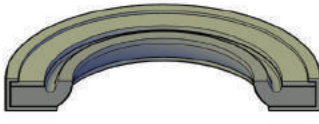
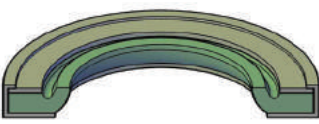
Seal Profile Index

| Type            | Prefix                                        | Product Image | Profile | Material             | Metric or Imperial |
|-----------------|-----------------------------------------------|---------------|---------|----------------------|--------------------|
| OIL SEALS       | SS-TCN<br>High Pressure Oil Seals             |               |         | Rubber<br>FKM        | Metric & Imperial  |
| BACK UP RINGS   | BS-SS-H<br>Back-Up Rings                      |               |         | Hytrell              | Imperial           |
|                 | BS-CB<br>"Parback®"<br>Back-Up Rings          |               |         | Rubber               | Imperial           |
|                 | BS-SS-P<br>Style 575<br>Back-Up Rings         |               |         | Polyurethane<br>PTFE | Imperial           |
|                 | MBK-SS-P<br>High Performance<br>Back-Up Rings |               |         | Hytrell              | Imperial           |
|                 | MBK-SS<br>Rod U-Seal<br>Back-Up Rings         |               |         | Nylon<br>PTFE        | Metric             |
|                 | RM-SS-VP<br>Back-Up Rings                     |               |         | PTFE                 | Metric             |
|                 | RM-SS-P<br>Back-Up Rings                      |               |         | Polyurethane         | Metric             |
|                 |                                               |               |         |                      |                    |
| RETAINING RINGS | CI<br>Internal Circlip                        |               |         | Steel                | Metric & Imperial  |
|                 | CE<br>External Circlip                        |               |         | Steel                | Metric & Imperial  |
|                 | RR<br>U-Seal Retainer Rings                   |               |         | Acetal               | Metric & Imperial  |

Seal Profile Index

| Type          | Prefix                                             | Product Image                                                                       | Profile                                                                             | Material                                          | Metric or Imperial |
|---------------|----------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------|--------------------|
| CUSHION SEALS | <b>CU</b><br>Cushion Seal<br>Hydraulic Application |    |    | Filled Nylon or Reinforced Phenolic               | Metric             |
|               | <b>CU</b><br>Cushion Seal<br>Pneumatic Application |    |    | Polyurethane                                      | Metric             |
| STATIC SEALS  | <b>BS</b><br>O-Rings                               |    |    | Rubber<br>FKM<br>Silicone<br>PTFE<br>Polyurethane | Imperial           |
|               | <b>BS-SQ</b><br>O-Rings                            |    |    | Rubber                                            | Imperial           |
|               | <b>BS-Q</b><br>Quad Rings                          |   |   | Rubber                                            | Imperial           |
|               | <b>BS-SFS-P</b><br>Split Flange Seals              |  |  | Polyurethane                                      | Imperial           |
|               | <b>FLANGE</b><br>Split Flange Seals                |  |  | Polyurethane                                      | Imperial           |
|               | <b>OP</b><br>Head Seals                            |  |  | Polyurethane                                      | Metric & Imperial  |
|               | <b>RM</b><br>O-Rings                               |  |  | Rubber<br>FKM                                     | Metric             |

Seal Profile Index

| Type         | Prefix                                    | Product Image                                                                         | Profile                                                                               | Material                                    | Metric or Imperial |
|--------------|-------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------|--------------------|
| STATIC SEALS | <b>RM-OBVD</b><br>Static Seals            |    |    | Rubber<br>O-Ring<br>Polyurethane<br>Back-Up | Metric             |
|              | <b>OP-CSP-P</b><br>Cover Seals            |    |    | 95A<br>Polyurethane                         | Metric             |
| SWIVEL SEAL  | <b>RO-P</b><br>Swivel Seals               |    |    | Polyurethane                                | Metric             |
| DUST SEALS   | <b>SS-MC-R-PIN</b><br>Link Pin Dust Seals |    |    | Rubber Lip<br>Steel Case                    | Metric             |
|              | <b>SS-MC-P-PIN</b><br>Link Pin Dust Seals |   |   | Rubber Lip<br>Steel Case                    | Metric             |
|              | <b>WR-MC-U-P</b><br>Metal Clad Dust Seals |  |  | Polyurethane Lip<br>Steel Case              | Metric             |





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