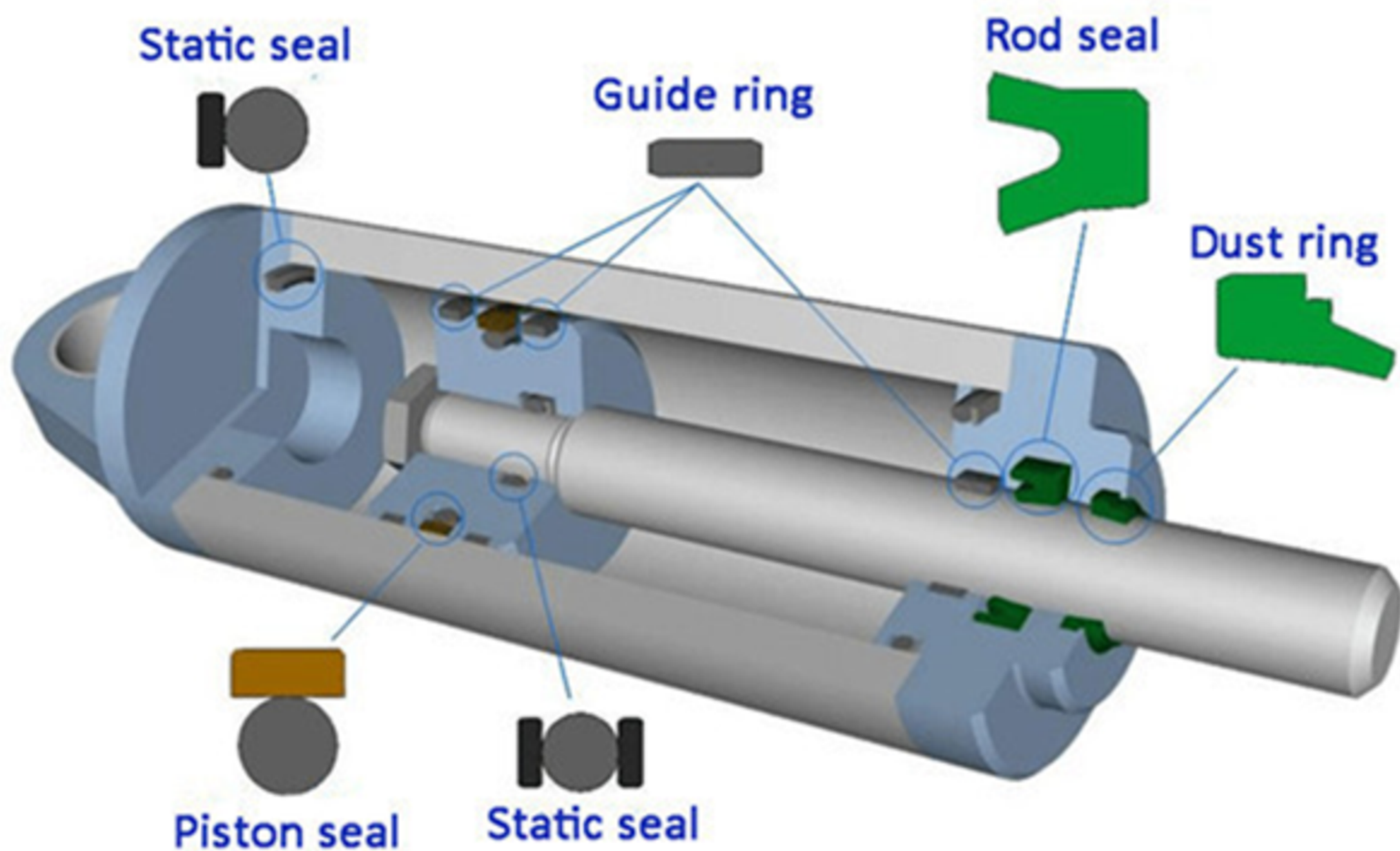




# AAR SEALS LLP

**CRAFTING CUSTOMIZED QUALITY SEALS JUST IN TIME**



Address: 38/2, Ramtekadi Industrial Estate,  
Hadapsar, Pune -411013

Email Id: [marketing@aarseals.com](mailto:marketing@aarseals.com)

Contact: 9522220061 / 7558624837

**AAR Seals** specializes in the manufacture and supply of precision hydraulic and pneumatic seals for diverse applications, delivering Quality, Reliable and Fast Solutions with **SEALS IN TIME**. Leveraging technical expertise from Austria, AAR Seals utilizes state-of-the-art CNC-controlled machines combined with proprietary software and cutting tools specially designed to machine various polymers such as **HPU, NBR, Viton, POM, PEEK, PTFE, BFT, GFT**, etc.

### Product Range & Offerings Include:

AAR has the capability to produce customized reciprocating, rotating and static seals tailored to customer specific application needs.

**Hydraulic Seals:** Rod, Piston and Wiper Seals, Buffer Seals, Guide rings, Backup Rings, and Gland packings/Chevron Packings replacements.

**Rotary Seals:** For grease and oil applications.

**Static Seals:** This Includes O-rings, Quad Rings and advanced designs for improved performance.

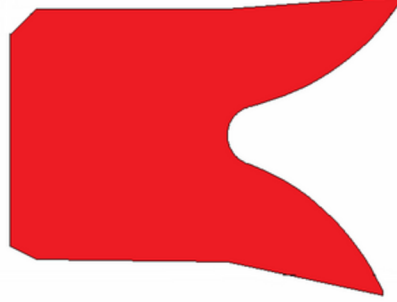
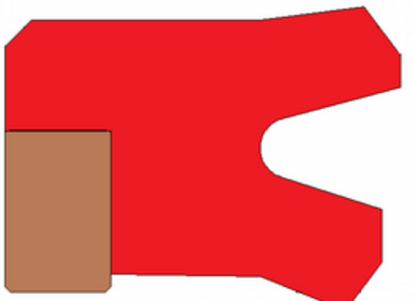
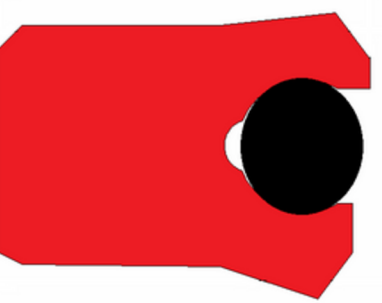
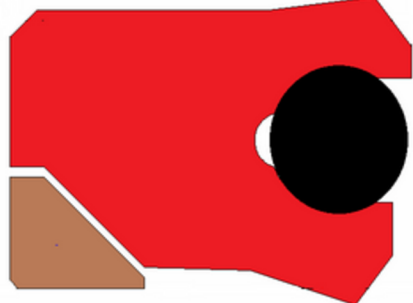
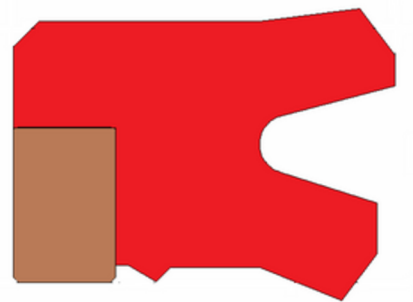
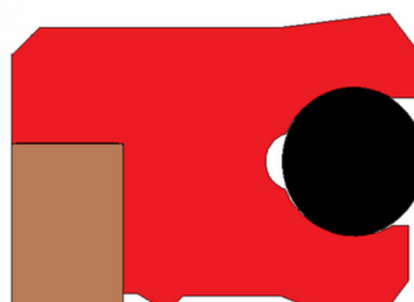
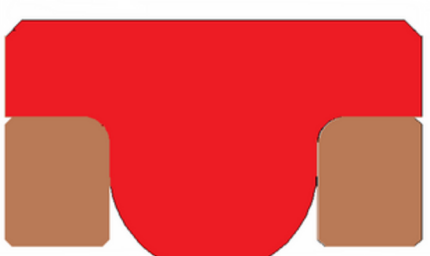
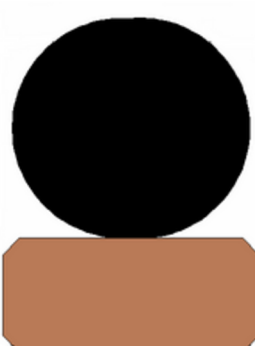
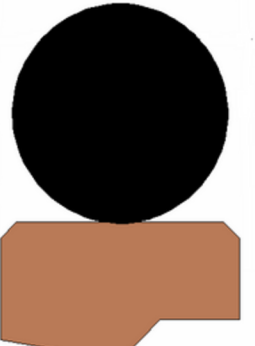
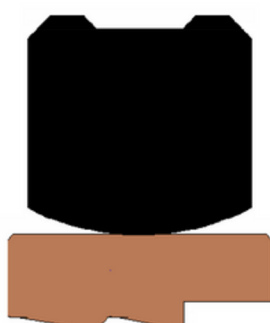
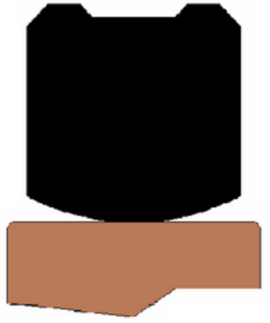
**Custom Made Rubber/PTFE products:** Rubber Gaskets, Diaphragms, Bellows, Specially designed PTFE Seals and many other PTFE products.

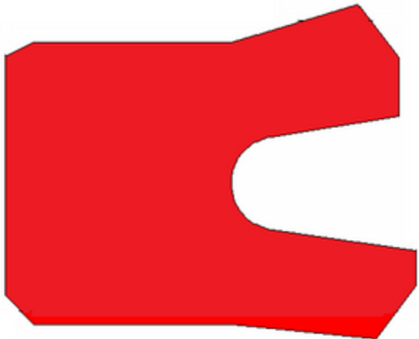
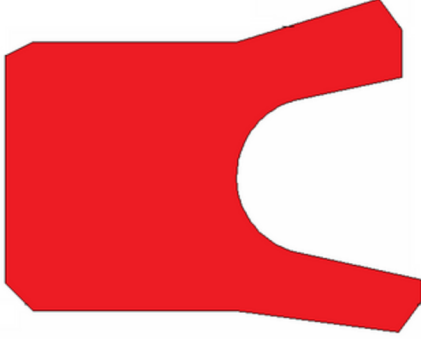
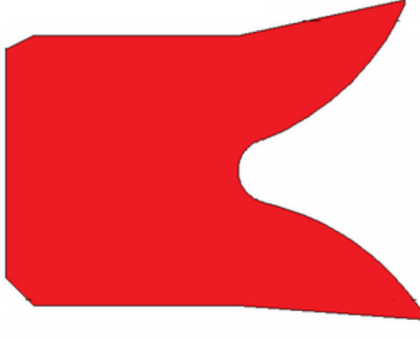
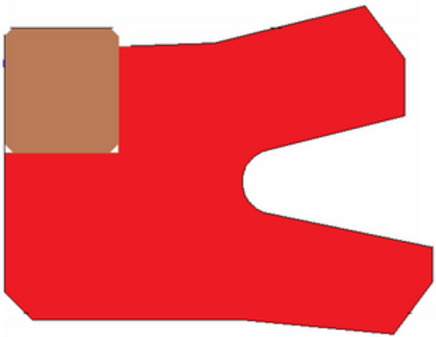
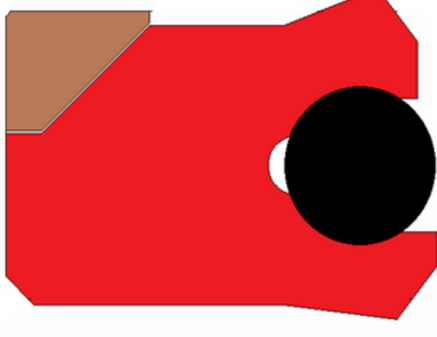
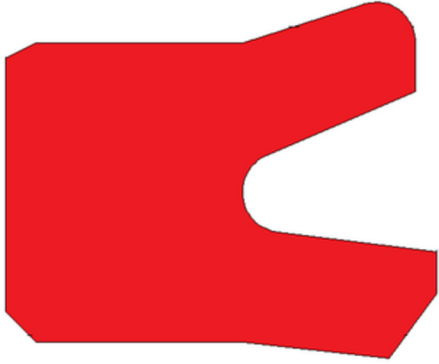
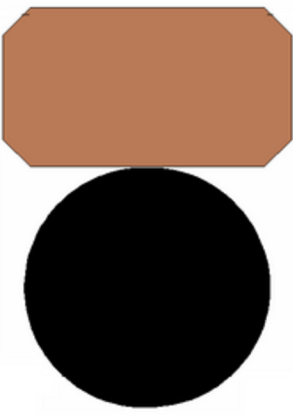
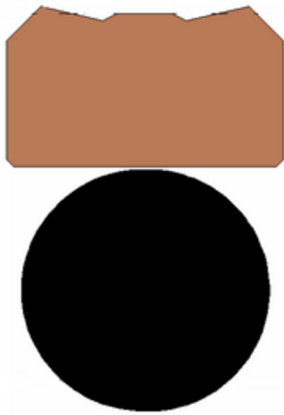
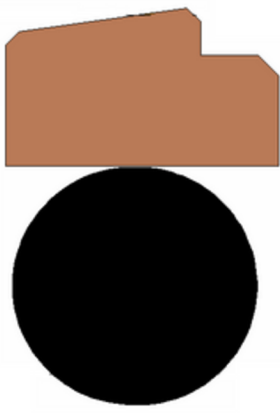
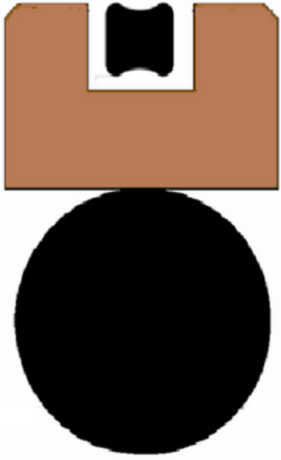
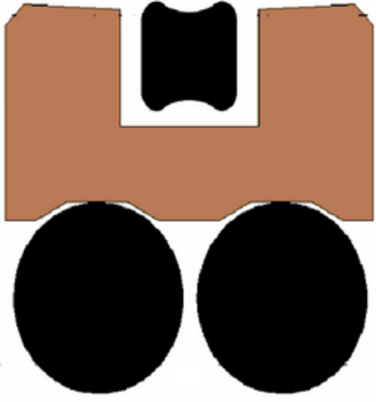
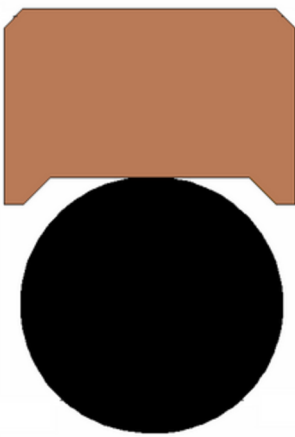
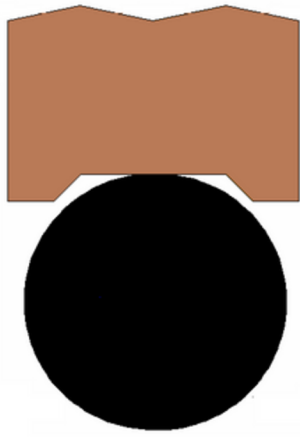
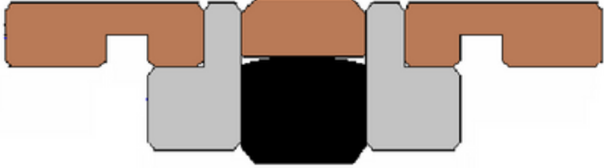
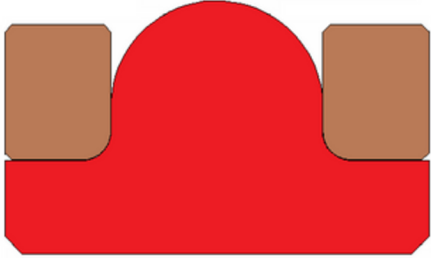
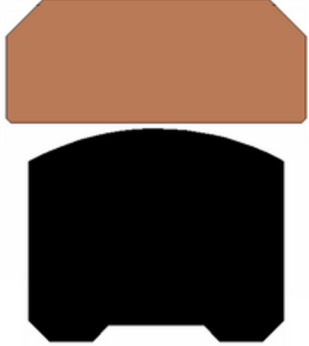
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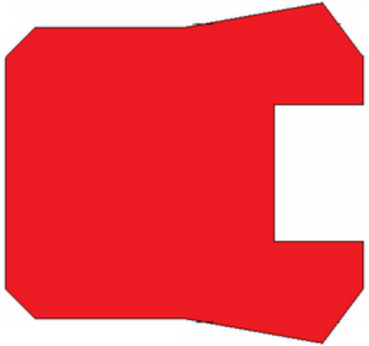
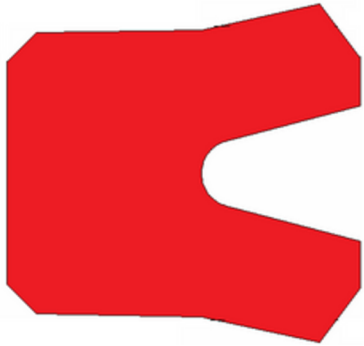
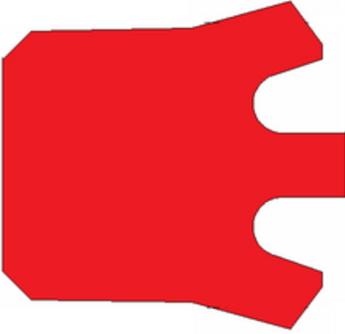
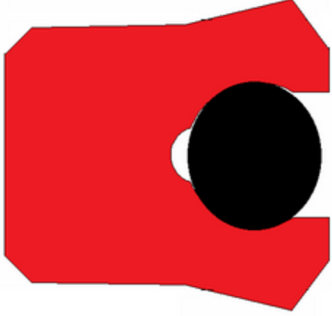
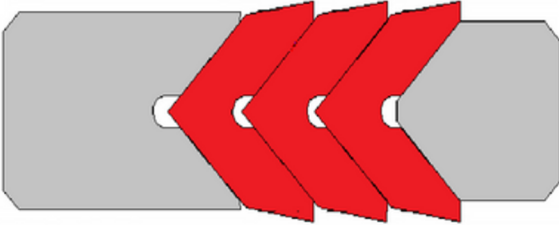
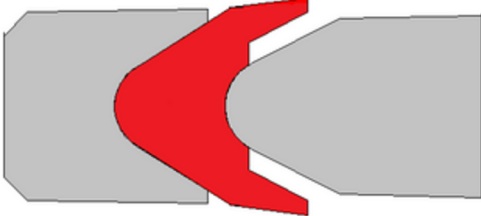
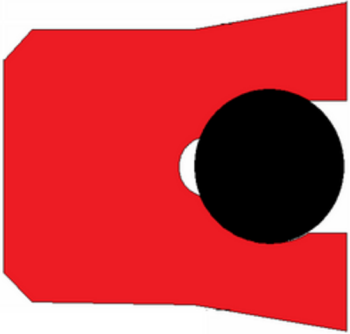
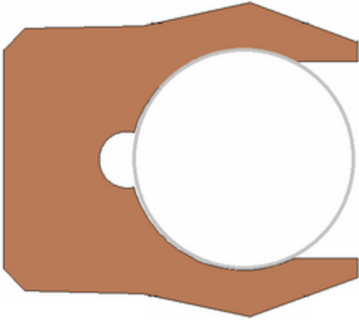
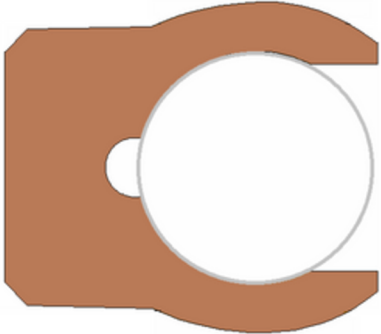
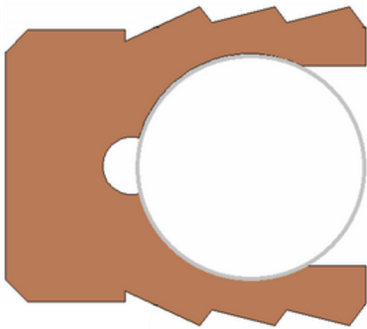
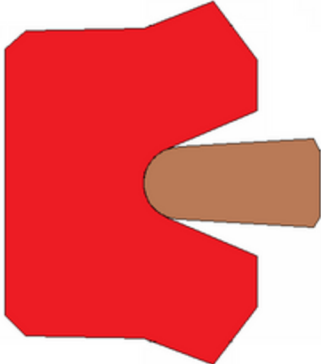
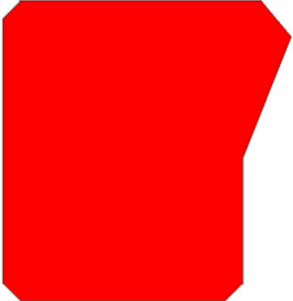
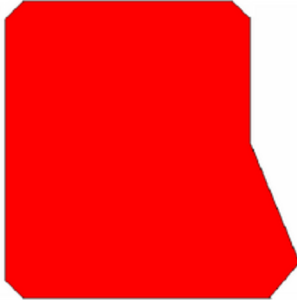
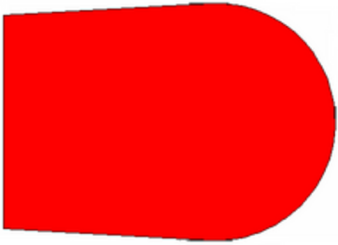
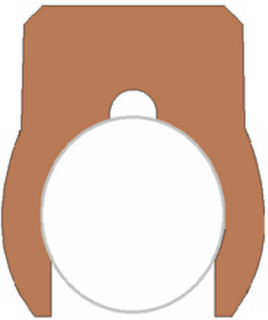
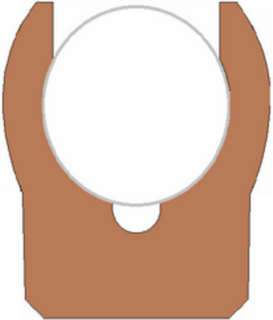
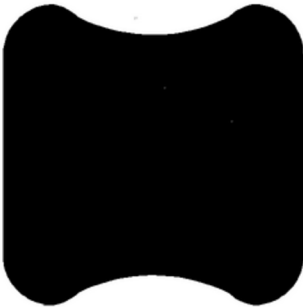
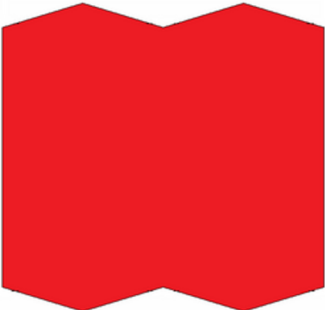
AAR's CNC production system ensures rapid turnaround, cutting seals from preformed polymer tubes without tooling costs, and enabling on-demand production from a single piece to batches of several thousand. While normal lead times range from 4 to 5 days, rush orders for seals from **2.5 to 850 mm dia** can often be shipped within the same day and **above 850 mm** dia can be shipped within a very short time.

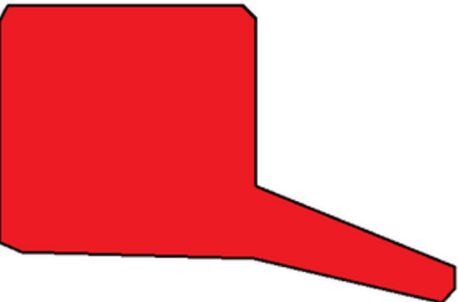
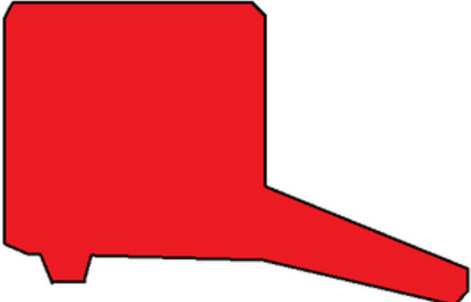
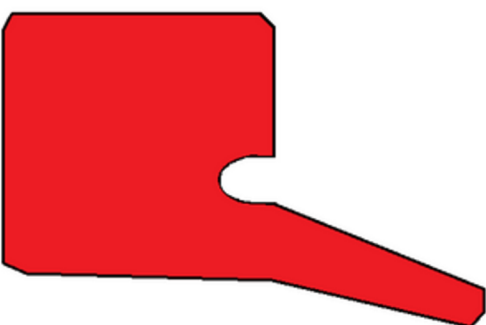
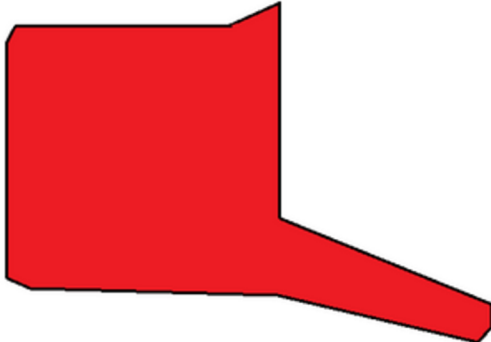
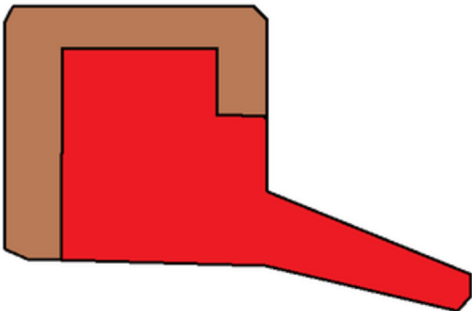
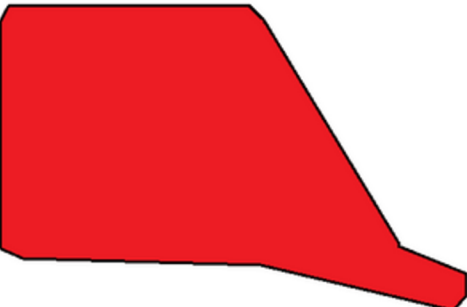
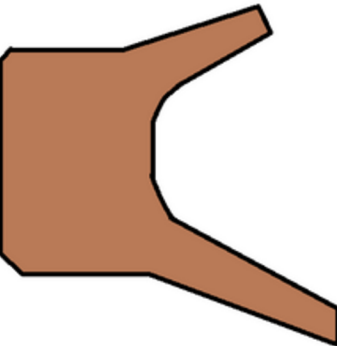
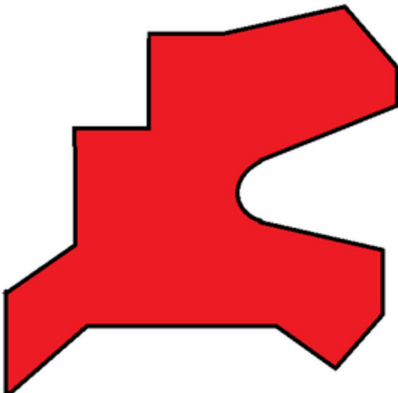
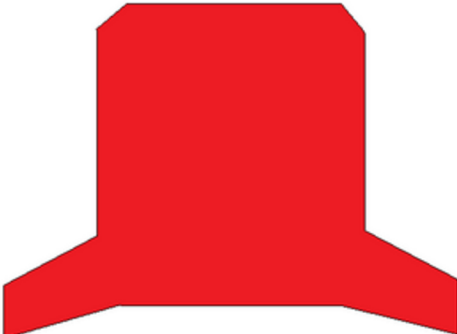
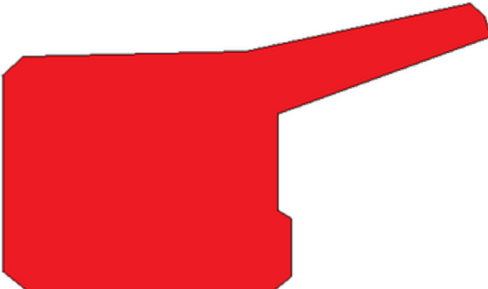
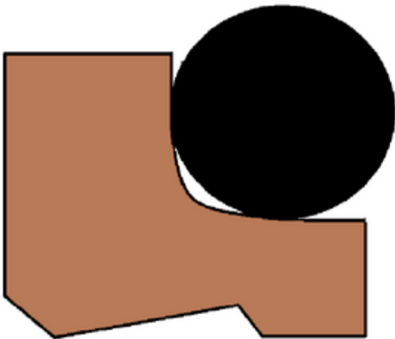
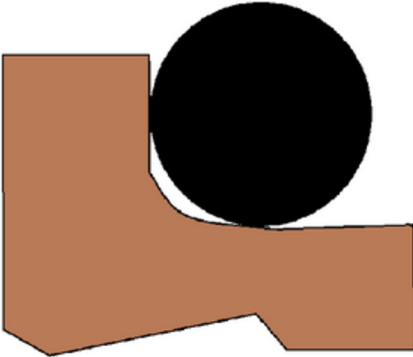
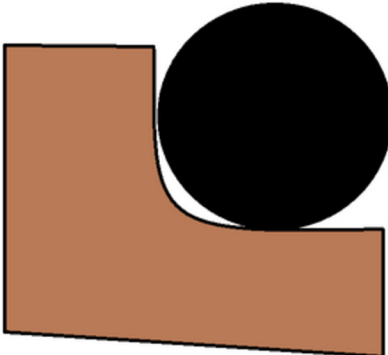
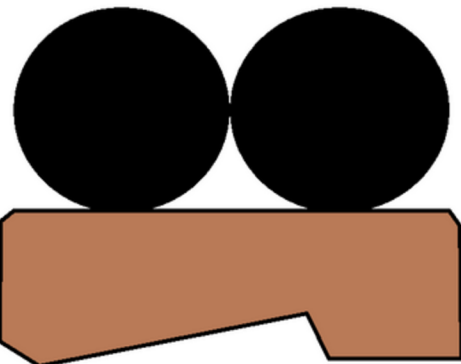
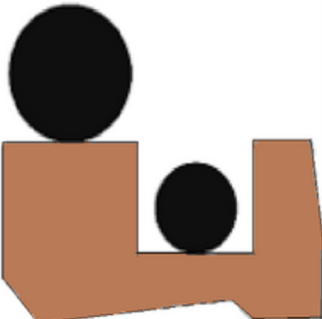
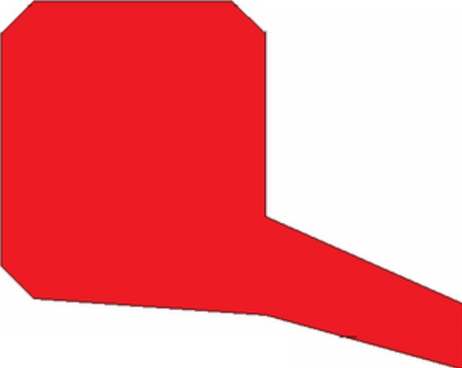
### Contact Us

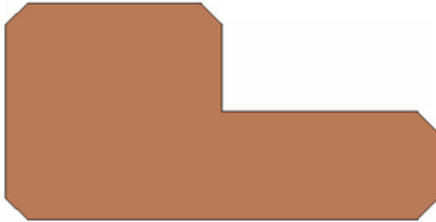
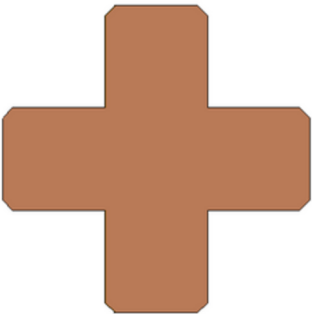
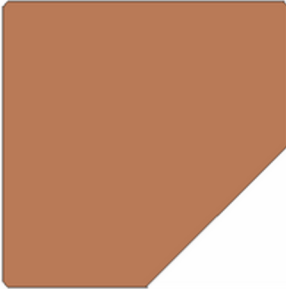
For inquiries or to discuss custom sealing solutions, please reach out to AAR Seals. We look forward to providing **SEALS IN TIME**, tailored precisely to your specifications

|                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ROD<br>SEALS                                                                        |     |     |     |
|                                                                                     | RS01                                                                                | RS01A                                                                                 | RS01B                                                                                 |
|    |    |    |    |
| RS02                                                                                | RS02A                                                                               | RS02B                                                                                 | RS02C                                                                                 |
|  |  |  |  |
| RS03                                                                                | RS04                                                                                | RS05                                                                                  | RS08                                                                                  |
|  |  |  |  |
| RS17                                                                                | RS17A                                                                               | RS17B                                                                                 | RS17C                                                                                 |
|  |  |  |  |
| RS17D                                                                               | RS20                                                                                | RS35                                                                                  | RS16                                                                                  |
|  |  |  |  |
| RS09A                                                                               | RS09B                                                                               | RS91                                                                                  | RS91A                                                                                 |

|                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| PISTON<br>SEALS                                                                     |     |     |     |
|                                                                                     | PS01                                                                                | PS01A                                                                                 | PS01B                                                                                 |
|    |    |    |    |
| PS02                                                                                | PS02B                                                                               | PS03                                                                                  | PS04                                                                                  |
|  |   |   |   |
| PS05                                                                                | PS08                                                                                | PS08A                                                                                 | PS08B                                                                                 |
|  |  |  |  |
| PS08C                                                                               | PS08D                                                                               | PS08E                                                                                 | PS08F                                                                                 |
|  |  |  |  |
| PS09                                                                                | PS09A                                                                               | PS16                                                                                  | PS17                                                                                  |
|  |  |  |  |
| PS20                                                                                | PS23                                                                                | PS35                                                                                  | PS81                                                                                  |

|                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ROD/<br>PISTON<br>SEALS                                                             |     |     |     |
|                                                                                     | P58                                                                                 | PRS06                                                                                 | PRS06A                                                                                |
|    |    |    |    |
| PRS06B                                                                              | PRS06C                                                                              | PRS06D                                                                                | PRS06E                                                                                |
|  |  |  |  |
| PRS07                                                                               | PRS10-12                                                                            | PRS13-15                                                                              | PRS18                                                                                 |
|  |  |  |  |
| PRS19B                                                                              | PRS19C                                                                              | PRS19D                                                                                | PRS22                                                                                 |
| STATIC<br>SEALS                                                                     |  |  |  |
|                                                                                     | FL01A                                                                               | FL02B                                                                                 | FL03                                                                                  |
|  |  |  |  |
| FL06                                                                                | FL07                                                                                | QR01                                                                                  | SS01                                                                                  |

|                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| WIPER<br>SEALS                                                                      |    |    |    |
|                                                                                     | WR01                                                                                | WR01A                                                                                 | WR02                                                                                  |
|    |    |    |    |
| WR02A                                                                               | WR02B                                                                               | WR02C                                                                                 | WR02D                                                                                 |
|  |  |  |  |
| WR03                                                                                | WR04                                                                                | WR07                                                                                  | WR08                                                                                  |
|  |  |  |  |
| WR11                                                                                | WR12                                                                                | WR17                                                                                  | WR18                                                                                  |
|  |  |  |  |
| WR13                                                                                | WR13_E2                                                                             | WR14                                                                                  | WR15                                                                                  |
| ADDITIONAL<br>SEALS                                                                 |  |  |  |
|                                                                                     | WR16                                                                                | W50                                                                                   | W51                                                                                   |

|                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| GUIDE<br>RINGS                                                                      |    |    |    |
|                                                                                     | BWR01                                                                               | BWR01A                                                                                | BWR03                                                                                 |
|    |    |    |    |
| BWR04                                                                               | BWR05                                                                               | BWR06                                                                                 | BWR07                                                                                 |
|  |  |                                                                                       |                                                                                       |
| BWR08                                                                               | BWR09                                                                               |                                                                                       |                                                                                       |
| BACKUP<br>RINGS                                                                     |  |  |  |
|                                                                                     | BUR08                                                                               | BUR09                                                                                 | BUR10                                                                                 |
|  |  |  |                                                                                       |
| BUR11                                                                               | BUR12                                                                               | BUR13                                                                                 |                                                                                       |
| ADDITIONAL<br>SEALS                                                                 |  |  |  |
|                                                                                     | BV01                                                                                | BV02                                                                                  | SP01                                                                                  |

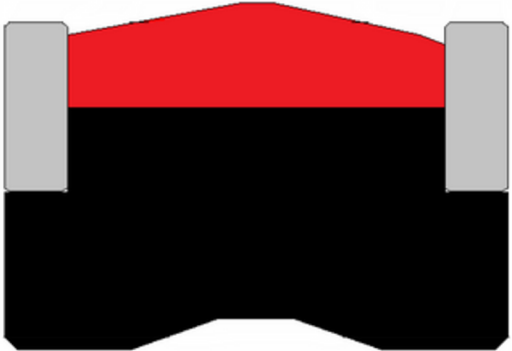
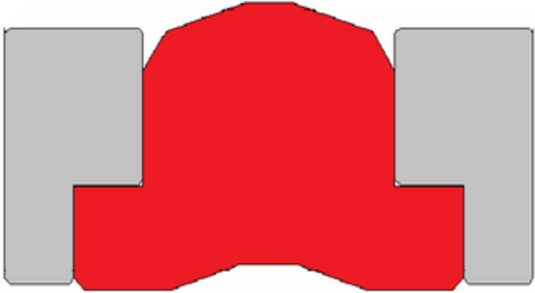
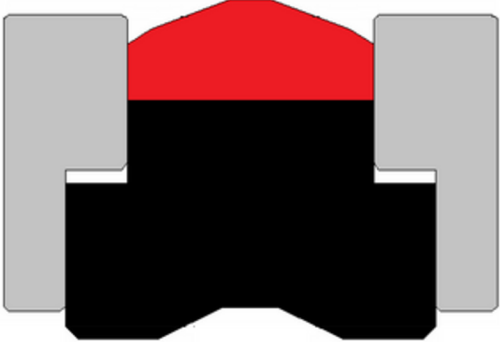
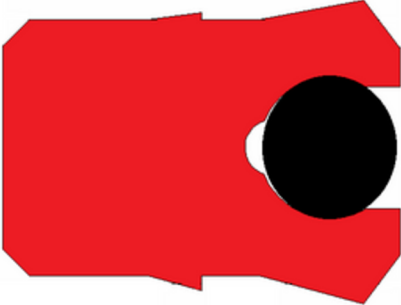
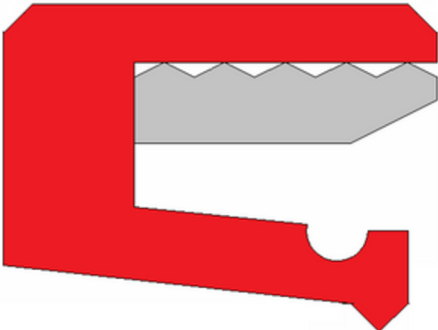
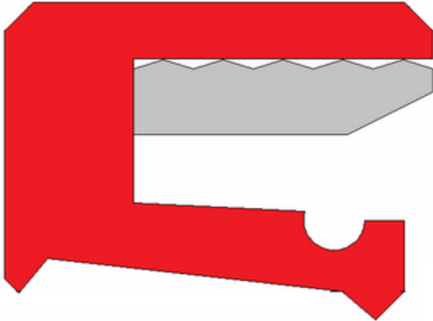
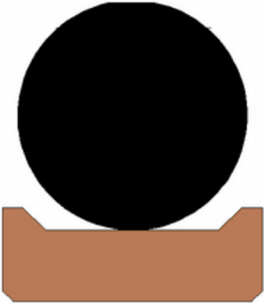
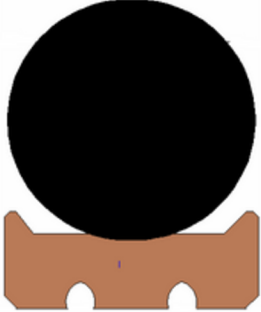
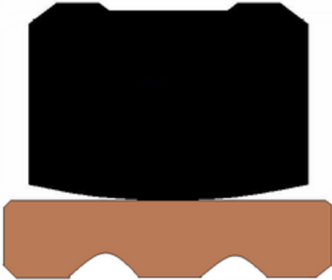
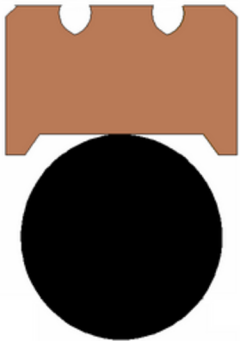
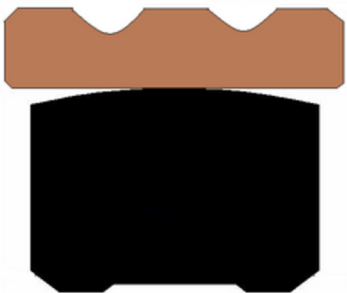
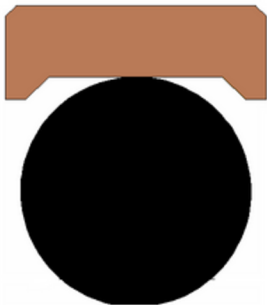
|                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| MINING<br>SEALS                                                                     |    |    |     |
|                                                                                     | P50                                                                                 | P50A                                                                                  | P51                                                                                   |
|    |    |    |    |
| P52                                                                                 | P53                                                                                 | P54                                                                                   | P55                                                                                   |
|  |  |  |  |
| R50                                                                                 | R51                                                                                 | R52                                                                                   | R53                                                                                   |
| ROTARY<br>SEALS                                                                     |  |  |  |
|                                                                                     | OS01                                                                                | OS02                                                                                  | R04                                                                                   |
|  |  |  |  |
| R05                                                                                 | R08                                                                                 | R09                                                                                   | R09A                                                                                  |
|  |  |  |  |
| R10                                                                                 | R10A                                                                                | R11                                                                                   | VR06                                                                                  |

TABLE OF MATERIALS

| Material      | Colour | Application Temp. | Hardness. at 20°C | Main application                                                                                                    |
|---------------|--------|-------------------|-------------------|---------------------------------------------------------------------------------------------------------------------|
| HPU Red       |        | -30 to +105°C     | Shore A 95 +/-2   | U-rings, wiper rings and other seal elements Mineral oil, compressed air, water Resistant against hydrolysis        |
| NBR Black     |        | -25 to +100°C     | Shore A 85 +/-5   | U-rings, wiper rings and other seal elements Mineral oil, compressed air, water For Pneumatic applications          |
| VITON Brown   |        | -20 to +210°C     | Shore A 85 +/-5   | U-rings, wiper rings and other seal elements High temperatures and aggressive media                                 |
| CAST NYLON    |        | -60 to +100°C     |                   | Back-up and guide rings, machined parts                                                                             |
| PTFE White    |        | -200 to +260°C    | Shore D 51 – 65   | Spring loaded seals Back-up and guide rings, low friction For food industry, excellent chemical resistance          |
| PTFE (BRONZE) |        | -200 to +260°C    | Shore D 62 – 67   | Composite seals with elastomer preload elements, spring loaded seals Back-up and guide rings, low friction          |
| PEEK Beige    |        | -50 to +250°C     | Shore D 90        | Composite seals with elastomer preload elements, Spring loaded seals Back-up and guide rings, high precision parts. |

Dimensions of the Installation space for O-rings

| Cross Section | Groove Depth | Without Back up Ring | One Back up Ring | Two Back up Ring | Recommended Back Up ring Thickness |
|---------------|--------------|----------------------|------------------|------------------|------------------------------------|
| 1,50          | 1,10         | 2,1                  | 3,1              | 4,1              | 1,0                                |
| 1,78          | 1,35         | 2,5                  | 3,5              | 4,5              | 1,0                                |
| 2,00          | 1,56         | 2,7                  | 4,2              | 5,7              | 1,5                                |
| 2,50          | 2,05         | 3,3                  | 4,8              | 6,3              | 1,5                                |
| 2,62          | 2,18         | 3,5                  | 5,0              | 6,5              | 1,5                                |
| 3,00          | 2,52         | 3,9                  | 5,4              | 6,9              | 1,5                                |
| 3,50          | 3,00         | 4,4                  | 5,9              | 7,4              | 1,5                                |
| 3,53          | 3,00         | 4,4                  | 5,9              | 7,4              | 1,5                                |
| 4,00          | 3,40         | 5,0                  | 6,7              | 8,4              | 1,7                                |
| 5,00          | 4,25         | 6,3                  | 8,0              | 9,7              | 1,7                                |
| 5,33          | 4,53         | 6,7                  | 8,4              | 10,1             | 1,7                                |
| 5,70          | 4,85         | 7,1                  | 9,1              | 11,1             | 2,0                                |
| 6,00          | 5,10         | 7,5                  | 9,5              | 11,5             | 2,0                                |
| 6,99          | 5,94         | 8,8                  | 10,8             | 12,8             | 2,0                                |
| 7,00          | 5,95         | 8,8                  | 10,8             | 12,8             | 2,0                                |
| 8,00          | 6,80         | 10,0                 | 12,5             | 15,0             | 2,5                                |

