

## REPAIR DEMANDS, SMALL SERIES, PROTOTYPING

### Quick service for your sealing and formed parts needs

Tailor-made, economical and fast. NCS Xpress minimizes your downtime and maximizes your flexibility. We provide machined seals, adapted seals, customized gaskets and formed parts for you – as individual pieces or in economical low quantities. Urgent spare parts orders can be delivered to your desired location within 48 hours.

#### Products

- |                       |                         |
|-----------------------|-------------------------|
| Chevron Sets          | PTFE Rotary Seals       |
| Standard Dirt Wipers  | Guide Rings             |
| Standard Rod Seals    | Spring Loaded Rod Seals |
| PTFE Rod Seals        | Dirt Wipers             |
| Standard Piston Seals | Gasket Profiles         |
| PTFE Piston Seals     | Backup Rings            |
| Rotary Shaft Seals    | Custom Machined         |

#### Materials

- |                   |                            |
|-------------------|----------------------------|
| Polyurethanes     | PTFE bronze                |
| Elastomers        | FON polyacetal             |
| Plastomers        | PA polyamide               |
| Fluoro-Plastic    | UHMBPE                     |
| HNBR              | POM                        |
| NBR               | FFKM                       |
| FKM               | Polyester Resin Composites |
| EPDM              | PEEK                       |
| Silicone          | Polyamides                 |
| PTFE virgin/white | FDA approved materials     |
| PTFE glass/MoS2   |                            |



Piston guides made of laminated fabric



Wipers (e.g. NBR) with aluminum housing



Compact piston seals made of NBR/PU/POM



Elastomer rod seal



Reduced friction rod seal made of PU

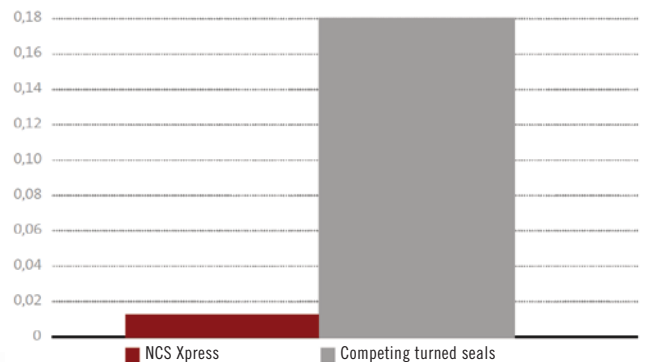


O-rings (e.g. EPDM or NBR)

## BENEFITS AT A GLANCE

- Original profiles and materials from the series production
- Customized solutions with standard profiles
- Fast delivery for your repair needs – if necessary within 48 hours
- Economical small batch series manufacturing
- Long service life due to unique material characteristics and manufacturing processes

#### LEAKAGE (G) PER 1,000 DOUBLE STROKES



Test conditions: 400 bar (5800 psi); 100 °C (212 °F); 0.3 m/s; 50,000 double strokes

Numerous studies prove: NCS Xpress achieves the best leakage values compared to the competition.

## ORIGINAL MATERIALS AND PROFILES FOR THE FOOD AND PHARMACEUTICAL INDUSTRY

### A solution for every industry sector

NCS Xpress provides highly resistant seals and formed parts for the special requirements of the process industry. Our seals can withstand the fatty media, high temperatures, and pressures that are common in the food and pharmaceutical industries. NCS Xpress offers proven solutions even for those with aggressive cleaning media contact.

The materials that come into contact with food or pharmaceuticals conform to FDA guidelines and are approved in accordance with global standards such as USP and NSF.



*Rapid Machined  
Radial Shaft Seal*



*Clamp Seal*

## CUSTOMIZED SEALS FOR HEAVY INDUSTRY

### Original designs and materials

NCS offers 10 product lines for heavy industry applications that are currently available in the fast delivery service – continuous, cut or precision-joined. The basic rings come from the series production. Guide belts and V-shaped packings are cut to measure and supplied open. A specially developed joining method allows individual diameter specifications for wipers, deflectors and radial shaft seals.



*Radial shaft seal, particularly  
suitable for working rolls in  
steel works*



*Innovative deflector, replaces  
V-rings in demanding  
applications*



*Guide belts  
made of laminated fabric*



*Wipers with support elements or with  
additional sealing function*



*V-shaped packing seal sets, particularly  
for cylinders in existing installations*

## BENEFITS AT A GLANCE

- Customized sealing solutions
- Based on your drawings
- Expert advice available
- Original profiles and materials as used in standard production
- Fast delivery for quick maintenance needs – within 48 hours, if needed
- Economic production of small batches
- Solutions for the process industry including FDA compliance and approvals like USP Class VI
- Prototyping

## CUSTOMER SPECIFIC SEALS AND FORMED PARTS

### Sealing solutions for proven reliability

NCS Xpress not only offers standard seals, but also customer-specific seals and formed parts.

Machined seals are an interesting alternative, especially when production of a series tool is too expensive or due to the special design production, is not even possible. In the case of newly developed parts, the threshold range is often a critical factor that has to be checked. Prototyping with NCS Xpress service not only saves time but money as well, since no tools are required for the creation of different functioning models.

Our experts are able to manufacture your individual solution, based on a drawing, sample or technical discussion. Formed parts can be manufactured from elastomeric materials such as EPDM, NBR, HNBR, FKM or polyurethanes as well as from plastics such as POM or PU.

Product modifications are no problem for us either. For example, the dead spaces of lip seals can be lined with silicone in order to allow for use in the food industry. The adherence of production residues and the formation of microfilms are thereby excluded.



*Pigs (pipe-cleaning devices)*



*Diaphragms*



*Formed parts made of PU*



*Formed parts made of PU*

## BENEFITS AT A GLANCE

- Unique turning and milling techniques allow the realization of individual designs
- Not using series tools saves costs
- Prototyping
- Reproduction based on a drawing or sample
- Numerous materials
- Highly competent consulting services



*Formed parts made of POM*



*Formed parts made for the medical industry*

**Contact North Coast Seal today for more information**

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