SOBTS EXIM | COMPANY INTRODUCTION

# SOBTS EXIM

## HYDRAULIC, PNEUMATIC AND INDUSTRIAL SEALS

TRADING • CUSTOMIZED CONTRACT MANUFACTURING

### ABOUT SOBTS EXIM

## Sealing products for industrial applications

SOBTS EXIM is a trader of hydraulic, pneumatic and industrial sealing products. We also support customized contract-manufacturing enquiries based on customer drawings, dimensions, material requirements and agreed operating conditions.

From replacement seals and kits to special profiles, each enquiry can start with the application and the dimensions that matter.

**PRODUCT TRADING**
Hydraulic, pneumatic and industrial seals

**CUSTOM REQUIREMENTS**
Customized contract manufacturing enquiries

**APPLICATION-LED**
Selection discussions using drawings and conditions

### SEAL PRODUCT RANGE



ROD AND PISTON SEALS




SEAL KITS




PNEUMATIC SEALS

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# Sealing products catalogue

Hydraulic and pneumatic seal categories for equipment and industry

SOBTS EXIM presents this catalogue of hydraulic, pneumatic and industrial seals.
Trading and customized manufacturing enquiries are supported against customer drawings and requirements.

## PRODUCT FAMILIES

### Hydraulic cylinder seals

Rod seals, piston seals, wipers, static seals and seal kits.

### Guidance and wear components

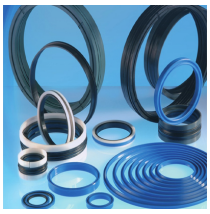
Guide rings, PTFE guide strips and wear strips.

### Rotary and static sealing

Radial shaft oil seals, O-rings and bonded Dowty seals.

### Pneumatic and specialty products

Pneumatic seals, UHS/DHS, cast polyurethane products, coupling spiders and specialty profiles.



HYDRAULIC SEAL PROFILES



SEAL KITS

Confirm product brand and availability for each enquiry.

# Rod seals

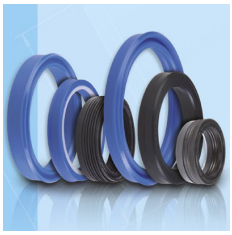
Dynamic sealing at the cylinder rod to help limit outward fluid leakage

Rod seals are used in single-acting and double-acting hydraulic systems to help limit fluid leakage.

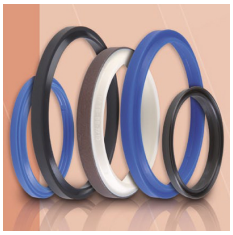
| Profile / type | Pressure (MPa) | Speed (m/s) | Temperature (C) | Material |
|---|---|---|---|---|
| TSE | 25 | 0.5 | -30 to +110 | Fabric |
| TSE/AI | 40 | 0.5 | -30 to +110 | Fabric + POM |
| GT/7 | 40 | 0.5 | -30 to +110 | Fabric |
| TTS | 40 | 0.5 | -35 to +100 | Polyurethane |
| GIP | 25 | 0.5 | -35 to +100 | Polyurethane + NBR |
| GUA-RING 02 | 50 | 12 | -30 to +100 | PTFE + NBR |
| BUFFER | 40 | 0.8 | -35 to +100 | Polyurethane + POM |

## PROFILE SELECTION NOTES

- For single-acting and double-acting hydraulic applications.
- Material options include fabric-reinforced, polyurethane, PTFE and mixed-material profiles.
- Confirm the profile, groove geometry, fluid, pressure, speed and temperature before selection.



ROD SEALS



ROD PROFILES

Check the current manufacturer data sheet for the selected seal and application.
application.

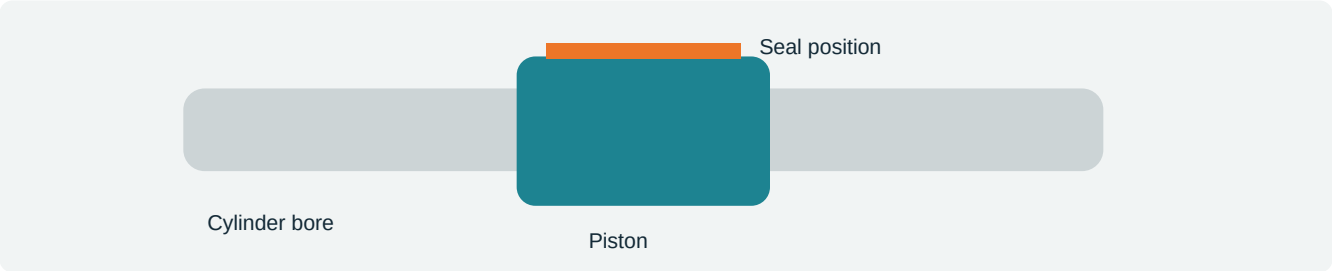
# Piston seals

Sealing between the piston and cylinder bore in hydraulic cylinders

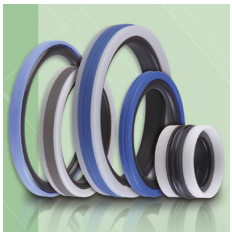
Piston seal profiles cover single-acting and double-acting systems with elastomeric, fabric, PTFE and backed designs. elastomeric, fabric, PTFE and backed designs.

| Profile / type | Pressure (MPa) | Speed (m/s) | Temperature (C) | Material |
|---|---|---|---|---|
| TPM/P | 35 | 0.5 | -30 to +110 | POM + TPE |
| TPS/T | 40 | 0.8 | -30 to +110 | Fabric + POM |
| PDH | 60 | 1.5 | -30 to +110 | PTFE + POM |
| PDP | 40 | 0.5 | -30 to +110 | Polyurethane + POM |
| TTU | 40 | 0.5 | -35 to +100 | Polyurethane |
| TTE/W | 50 | 0.5 | -35 to +100 | Polyurethane + POM |
| TTO | 25 / 40* | 0.5 | -35 to +100 | Polyurethane + NBR |
| GUA-RING 01 | 50 | 12 | -30 to +100 | PTFE + NBR |

## TYPICAL PISTON SEAL ARRANGEMENT




*Separate 25 MPa and 40 MPa entries appear for this profile; confirm the exact variant.



PISTON SEALS



PISTON PROFILES

# Guide rings and wiper seals

Guidance components and rod-entry protection

Guide rings guide the piston or rod within a hydraulic cylinder. Wiper seals help prevent dirt, dust and moisture from entering the cylinder as the rod retracts.

## GUIDE RING PROFILES

| Profile | Material | Published temperature range |
|---|---|---|
| AGI / AGI-S; AGE | POM + fiberglass | -40 to +110 C |
| AFI / AFE | Fabric + phenolic resin | -40 to +130 C |
| TEF/SEAL TF | PTFE + bronze | -40 to +200 C |

## WIPER SEAL EXAMPLES

| Profile | Material | Temperature range |
|---|---|---|
| GHM | NBR | -30 to +110 C |
| GHK / GHY / GHW | Polyurethane | -35 to +100 C |
| GPA | Polyurethane + metal | -35 to +100 C |
| GHF | PTFE reinforced + NBR | -30 to +130 C |
| GHH | TPE thermoplastic | -50 to +140 C |
| GGW | Polyurethane | -35 to +100 C |

Wipers are external contamination barriers, while guide rings manage side load and prevent metal-to-metal contact. Confirm groove dimensions, fit and operating environment for each design.



GUIDE RINGS



GUIDE ELEMENTS

# O-rings and bonded seals

Common elastomer families and selected Dowty bonded seal sizes

O-ring selection depends on the compound, groove geometry, pressure, temperature and fluid compatibility. material performance depends on the particular compound variant.

## O-RING COMPOUND GUIDE

| Material | Published temperature guide | Examples of use / limits noted |
|---|---|---|
| NBR (nitrile) | -40 to +110 C | Mineral hydraulic and lubricating oils; fuels and LPG |
| FKM / Viton | -40 to +230 C | Higher temperature; synthetic and hydraulic fluids |
| EPDM | -55 to +150 C | Brake fluids, hot water and steam; not mineral oils |
| Silicone (MVQ) | -55 to +230 C | Air, water, oxygen; static applications |
| Polyurethane (PU) | -30 to +80 C | Wear and extrusion resistance; chemical limits apply |
| PTFE | -200 to +260 C | Chemical resistance; static use noted |

## BONDED DOWTY SEAL EXAMPLES

| Thread/profile | ID (mm) | OD (mm) | Thickness (mm) | Material |
|---|---|---|---|---|
| 1/4 in BSP | 15.21 | 20.57 | 2.00 | 90 (blue) |
| 1/2 in BSP | 23.01 | 28.58 | 2.50 | 90 (blue) |
| M10 | 12.40 | 16.00 | 1.50 | 90 (blue) |
| M12 | 14.30 | 18.00 | 1.50 | 90 (blue) |
| M20 | 22.50 | 28.00 | 1.50 | 90 (blue) |

Use listed dimensions and temperature guides as a starting point. Verify compound grade, size and chemical compatibility. compatibility before specifying.



O-RINGS



BONDED SEALS

# PTFE guide strips

Bronze-filled PTFE strips and dimensional options

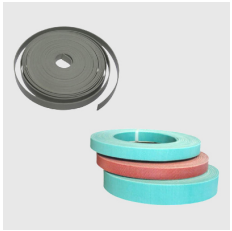
PTFE guide strips are listed in brown, with 40% bronze fill, speed 15 m/s and temperature range temperature range of -40 C to +200 C. It also lists diamond-surface variants and notes that other sizes can be requested.

## REPRESENTATIVE GROOVE WIDTHS AND STRIP THICKNESSES

| Groove width (mm) | Common thicknesses (mm) | Material |
|---|---|---|
| 4.10 | 1.50, 2.00, 2.50, 4.00 | PTFE + bronze |
| 5.70 | 1.50, 2.00, 2.50 | PTFE + bronze |
| 6.30 | 1.50, 2.00, 2.50, 3.00, 4.00, 4.50 | PTFE + bronze |
| 8.10 | 1.50, 2.00, 2.50, 3.00, 4.00 | PTFE + bronze |
| 9.70 | 1.00, 1.50, 2.00, 2.50, 3.00, 4.00, 4.50 | PTFE + bronze |
| 12.00 / 12.70 | 2.00, 2.50, 3.00 | PTFE + bronze |
| 15.00 | 1.50, 2.00, 2.50, 3.00, 4.00 | PTFE + bronze |
| 20.00 / 25.00 | 2.00, 2.50, 3.00, 4.00 | PTFE + bronze |

## DIAMOND-SURFACE VARIANTS LISTED

- PTFE bronze / diamond surface entries are listed at 2.5 mm thickness for groove widths 5.70, 9.70, 15.00, 20.00 and 25.00 mm.
- The catalogue includes 4.00 mm thickness at widths 9.70, 15.00 and 25.00 mm.
- Confirm strip dimensions and finish against the housing groove and application.



GUIDE STRIPS



WEAR RINGS

# Seal kits and customized sets

Cylinder repair kits for mobile and industrial equipment

## INDUSTRIES SERVED

- Automotive
- Material handling
- Construction and dump equipment
- Industrial
- Mining
- Refuse and waste equipment
- Agriculture
- Chemical processing
- Forestry
- Marine
- Oilfield and gas

## INFORMATION TO PROVIDE FOR A KIT ENQUIRY

- Equipment make, model and cylinder identification
- Seal arrangement or exploded view, if available
- Rod and bore diameters, groove dimensions and seal stack
- Fluid type, operating temperature and pressure
- Quantity and whether a full kit or individual seal is needed



SEAL KIT PRODUCT RANGE

SOBTS EXIM can discuss sourcing or customized kit requirements against agreed application details.

# Pneumatic seals

U-cups, piston seals and combination seal profiles

Pneumatic seal families include piston U-seals and combination seal profiles. Selected examples are shown below. piston U-seals and combi seals. Below are representative rows from the published listings.

## PNEUMATIC PISTON U-SEAL EXAMPLES

| Profile | ID (mm) | OD (mm) | Thickness (mm) | Material |
|---|---|---|---|---|
| E4 | 32 | 24 | 5.50 | PU |
| E4 | 50 | 40 | 7.00 | PU |
| E4 | 100 | 88 | 8.50 | PU |
| E4 | 160 | 145 | 10.00 | PU |
| Z8 | 20 | 14 | 2.55 | PU |
| Z8 | 40 | 32 | 3.25 | PU |
| Z8 | 80 | 70 | 4.25 | PU |
| Z8 | 125 | 105 | 8.25 | PU |

## COMBINATION SEAL EXAMPLES

| Profile | ID (mm) | OD (mm) | Thickness (mm) | Seal profile / material |
|---|---|---|---|---|
| EU | 12 | 20 | 10.70 | EU-COMBI / PU |
| EU | 12 | 22 | 10.70 | EU-COMBI / PU |
| EU | 14 | 24 | 10.70 | EU-COMBI / PU |
| EU | 18 | 26 | 10.70 | EU-COMBI / PU |

Dimensions are in millimetres as listed. Confirm whether these refer to the seal or housing and verify the complete profile drawing. verify the complete profile drawing before ordering.




PNEUMATIC SEALS




UHS / DHS

# UHS and DHS seal profiles

Selected DHS wiper seal dimensions

UHS, UNS and DHS polyurethane seals include the DHS wiper examples below, showing ID, OD, thickness and material.

## DHS WIPER SEAL EXAMPLES (MM)

| Profile | ID | OD | Thickness | Material |
|---|---|---|---|---|
| DHS | 11.20 | 19.20 | 6.00 | PU |
| DHS | 16.00 | 24.00 | 6.00 | PU |
| DHS | 25.00 | 33.00 | 6.00 | PU |
| DHS | 38.00 | 46.00 | 6.50 | PU |
| DHS | 50.00 | 58.00 | 6.50 | PU |
| DHS | 70.00 | 80.00 | 8.00 | PU |
| DHS | 85.00 | 95.00 | 8.00 | PU |
| DHS | 100.00 | 110.00 | 8.00 | PU |
| DHS | 120.00 | 130.00 | 8.00 | PU |
| DHS | 130.00 | 140.00 | 9.50 | PU |

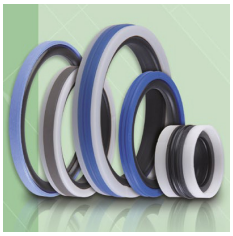
## RANGE AND FIT

DHS sizes span small through larger diameters. Match the seal profile and housing geometry to the cylinder drawing; do not infer pressure c
cylinder drawing; do not infer a pressure or temperature rating from dimensions alone.

- Identify whether the required element is a rod wiper, rod seal or piston seal.
- Check dimensions, installation direction and elastomer compatibility.
- Ask for the current drawing and operating limits of the exact profile.




POLYURETHANE SEALS



HYDRAULIC SEALS

# SND oil seals

Radial shaft seals in TC and TG types

SND radial shaft oil seals are listed in NBR (nitrile rubber), types TC and TG, with ID, OD and thickness in millimetres.

## SELECTED SIZE EXAMPLES (ID X OD X THICKNESS)

| ID (mm) | OD (mm) | Thickness (mm) | Material |
|---|---|---|---|
| 8 | 16 | 7 | NBR |
| 10 | 18 | 7 | NBR |
| 10 | 20 | 7 | NBR |
| 12 | 22 | 7 | NBR |
| 15 | 30 | 7 | NBR |
| 20 | 35 | 7 | NBR |
| 20 | 40 | 10 | NBR |
| 25 | 40 | 8 | NBR |
| 28 | 38 | 10 | NBR |

## ORDERING CHECKS

- Identify shaft diameter (seal ID), housing bore (seal OD) and available width.
- Confirm lip arrangement, direction of pressure and rotating speed against the selected TC or TG profile.
- Verify elastomer compatibility with lubricant, temperature and operating environment.



OIL SEALS



ROTARY SEALS

This page shows representative entries; check the current size list for exact available combinations.
size list to check the exact combination.

# Cast PU products and coupling spiders

Wear products, custom cast components and flexible inserts

## CAST POLYURETHANE CATEGORIES LISTED

- Polyurethane wheels and slitting spacers
- Cast polyurethane products
- Concrete pump parts and polyurethane nozzles
- Sandvik polyurethane slide components
- PU ring rubbers

## PU COUPLING SPIDER NOTES

PU spiders cushion and reduce vibration between power machinery and working machines.
machines. Published features include easy installation, high processing precision, tear and abrasion resistance. It lists a coupling temperature range of -35 C to +90 C and torque range of 22.4 to 2500 N.m.

| Series examples | Color | Examples shown |
|---|---|---|
| GR | Red | GR-14 through GR-140 |
| MT | Yellow | MT1 through MT11 |
| SBT | Green | SBT-1 through SBT-8 |
| GS | Red | GS-7 through GS-75 |
| H series | Black | H-95 through H-440 |

Dimensional fields vary by coupling series. Verify the hub size, insert geometry, torque and environmental conditions from the series-specific data before selection.



COUPLING SPIDERS

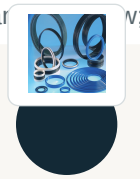


PU COMPONENTS

# Additional profile families

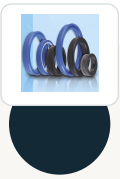
Additional seal product categories

Additional hydraulic and pneumatic seal profile families include the products below.
far w; detailed dimensions and working limits should be confirmed from the specific product data.



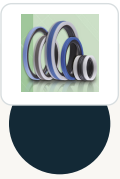
### GLYD and Step Seals

Compact piston sealing profiles listed in the product range.



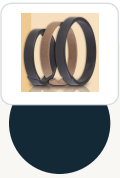
### HBY Seals

Hydraulic seal profile family.



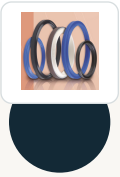
### X-Rings / Quad Rings

Four-lobed static or dynamic sealing form.



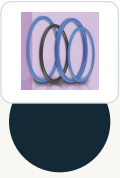
### SPGW and DKBI

Hydraulic seal profile families listed under products.



### Seal tools and O-ring kits

Installation tools and packaged O-ring sets listed in product navigation.



### Static seals

Separate hydraulic static seal category listed on the home page.

*Confirm detailed dimensions and working limits from product data.*

# Seal selection and material guide

Confirm application data before specifying a profile

O-ring performance depends on the specific elastomer variant; check chemical resistance. be checked. It also notes that groove size and radial clearance affect function.

## A PRACTICAL ENQUIRY CHECKLIST

- Seal function and location: rod, piston, wiper, static or rotary
- Required dimensions: ID, OD, thickness, groove and clearance
- Fluid or gas, concentration and exposure to cleaning agents
- Pressure, speed or cycling, temperature and duty cycle
- Hardware drawing, surface finish and installation constraints
- Required quantity, identification and replacement-kit contents

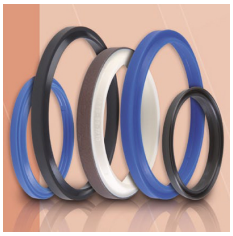
## O-RING TEMPERATURE GUIDES

| Material family | Guide range |
|---|---|
| NBR | -40 to +110 C |
| FKM / Viton | -40 to +230 C; another fluoroelastomer entry lists up to +320 C |
| EPDM | -55 to +150 C |
| Silicone (MVQ) | -55 to +230 C |
| PU | -30 to +80 C |
| PTFE | -200 to +260 C |

These are general guides, not guarantees for every compound or working condition. Confirm fluid compatibility and exact manufacturer ratings for the selected seal.



STATIC O-RINGS



HYDRAULIC PROFILES

# THANK YOU

## FOR CONSIDERING SOBTS EXIM

For seals, kits and customized requirements, share your application, dimensions, fluid, operating conditions and drawings with our team.









### SOBTS EXIM CONTACT

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### PRODUCT ENQUIRIES

Hydraulic, pneumatic and industrial seals, kits and custom requirements.

*Technical listings may change; confirm current dimensions, ratings and availability before ordering.*