

The background of the entire page is a top-down view of numerous hydraulic seals and gaskets of various sizes and colors, including black, red, blue, green, yellow, and grey, scattered across a white surface. The seals are arranged in a non-uniform pattern, with some overlapping and others standing alone.

APOLLON

CATALOGUE HYDRAULIC SEALS

Gaskets and seals are our passion





**All the hydraulic and pneumatic gaskets
you need for your application**

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Your reliable partner for sealing technology

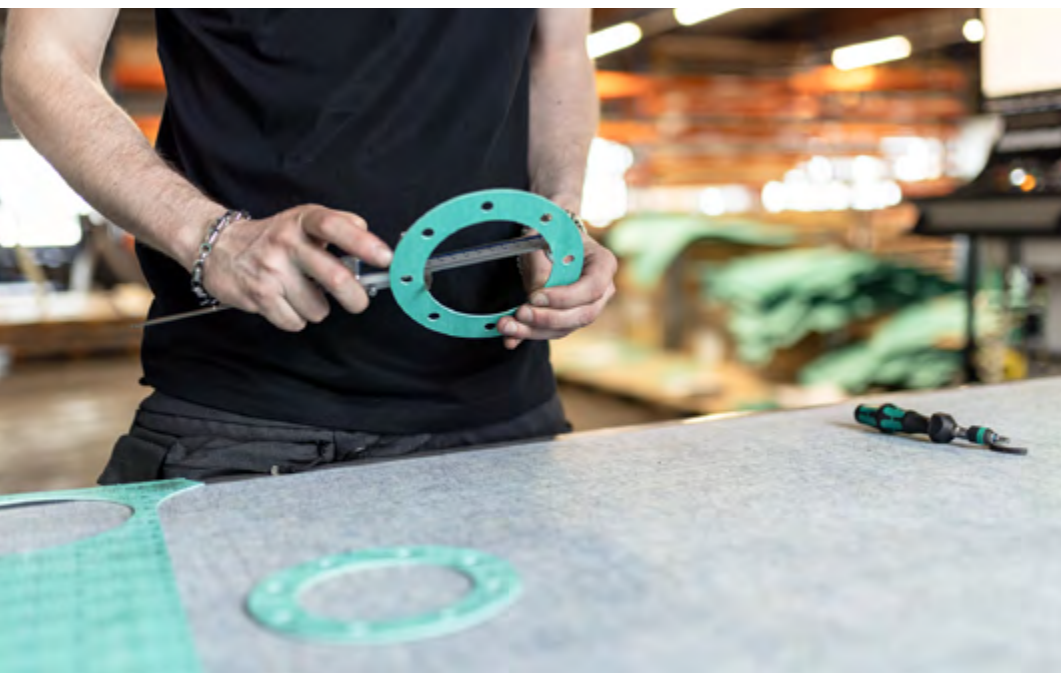
CUSTOMISED SEALING SYSTEMS AND SOLUTIONS

METAL GASKETS • SOFT MATERIAL GASKETS •
HYDRAULIC SEALS • PACKINGS AND PACKING RINGS



Sustainable management means minimising environmental impact as far as possible. Accordingly, industrial processes today are planned in such a way that resources and the environment are conserved. This also corresponds to the principle of optimised calculation, manufacturing and processing procedures. In terms of tightness, leaks mean material and energy losses. To avoid this, seals are indispensable.

Gaskets and seals are our passion. When producing our gaskets and seals, we focus on flawless function and a long service life. Our modern production facility in Hamburg for standard gaskets and customised products based on customer requirements or samples, as well as our extremely wide-ranging warehouse, make us a reliable partner for a wide range of industries.



We manufacture high-quality sealing systems on CNC machines, laser cutting systems and flatbed plotters. We produce ring joint gaskets, spiral wound gaskets, grooved gaskets, metallic flat gaskets and non-metallic flat gaskets based on graphite, fibre or PTFE.

We are also a reliable supplier partner for lens gaskets, corrugated gaskets, rubber-steel gaskets, rod seals, piston seals, wipers, rotor seals, bearing and seal rings, O-rings, graphite rings, packings and packing rings.

We keep all this and more in stock for your short-term requirements, if necessary as merchandise from well-known manufacturers. We respond quickly to your enquiries so that you receive the prices you need immediately. You set the standard: order production and delivery from us and, if necessary and possible, your seals will be at your premises the very next morning with UPS Express Plus. If you need it faster? Then we'll send a courier.



HYDRAULIC SEALS



We offer you an extensive range of hydraulic seals in the categories of rod seals, piston seals, wipers, rotor seals, back-up and guide rings as well as a wide range of O-rings.

If required, we would be pleased to put together customised seal kits for you or support you with repairs.

Hydraulic seals ROD SEALS



Rod seals are used in cylinders to seal liquids and provide optimum protection against the ingress of external media. Apollon has a large selection of different profiles made from various materials and material combinations. All have high wear resistance, extrusion properties and temperature resistance.

**STA100**

Slotted ring rod seal

**STA180**

Symmetrical lip seal rod seal

**STA270**

Double-acting rod seal

**STA110**

Slotted ring rod seal with integrated angled support ring

**STA190**

Symmetrical lip seal rod seal with supporting O-ring

**STA280**

Double lip groove ring rod seal with supporting O-ring

**STA120**

Slotted ring rod seal with integrated straight support ring

**STA200**

Symmetrical lip seal rod seal

**STA290**

Rod seal with O-ring

**STA130**

Slotted ring rod seal with supporting O-ring

**STA210**

Rod seal with O-ring

**STA300**

High-performance rod seal with energiser

**STA140**

Slotted ring rod seal with integrated bevelled support ring and O-ring

**STA220**

Double-lip grooved ring rod seal

**STA310**

Rod seal with O-ring

**STA150**

Slotted ring rod seal with integrated straight support ring and O-ring

**STA230**

Double-lip grooved ring rod seal with integrated support ring

**HUT100**

Hat cuff

**STA160**

Slotted ring rod seal pneumatic

**STA240**

Grooved ring rod seal with spring

**HUT200**

Hat cuff

**STA170**

Slotted ring rod seal pneumatic

**STA250**

Double-acting rod seal

**DA100**

Roof gasket set

**DA200**

Roof gasket set

**DA300**

Roof gasket set

**STA260**

Symmetrical lip seal rod seal with supporting O-ring

**KLA100**

Flap seal

Hydraulic seals

PISTON SEALS



Piston seals seal the two cylinder chambers separated from the piston and prevent fluids from escaping from the cylinder. A basic distinction is made between single and double-acting sealing elements.

We have a large selection of profiles and material combinations for use in hydraulics or pneumatics.



K0100

Grooved ring piston seal



K0140

Grooved ring piston seal with integrated bevelled support ring and O-ring



K0110

Grooved ring piston seal with integrated angled support ring



K0150

Grooved ring piston seal with integrated straight support ring and O-ring



K0120

Grooved ring piston seal with integrated straight support ring



K0160

Grooved ring piston seal for pneumatics



K0130

Grooved ring piston seal with supporting O-ring

**KO170**

Grooved ring piston seal for pneumatics (narrower sealing lips)

**KO180**

Symmetrical grooved ring piston seal

**KO190**

Symmetrical grooved ring piston seal with supporting O-ring

**KO200**

Piston seal with O-ring

**KO210**

Symmetrical lip seal piston seal with supporting O-ring

**KO220**

Grooved ring piston seal with spring

**KO230**

Double-acting piston seal

**KO240**

Single-acting piston seal

**KO250**

High-performance piston seal

**KO260**

Single-acting high-performance piston seal

**KO270**

Grooved ring piston seal with spring

**KO280**

Piston seal with O-ring

**KO290**

Piston seal with O-ring

**KO300**

High-performance piston seal

**KO310**

Piston accumulator seal

**KOK100**

Four-part compact piston seal

**KOK110**

Four-part compact piston seal

**KOK120**

Four-part compact piston seal

**KOK130**

Four-part compact piston seal

**KOK140**

Four-part compact piston seal

**KOK150**

Four-part compact piston seal

**KOK160**

Four-part compact piston seal

**KOK170**

Four-part compact piston seal

**KOK180**

Four-part compact piston seal

**KOK190**

Three-part compact piston seal

**DA400**

Roof cuff

**KLA100**

Flap seal

**T0100**

Hat cuff

**T0200**

Hat cuff

Hydraulic seals

WIPER SEALS



Single or double-acting wipers are installed in hydraulic cylinders to remove dirt, foreign particles, swarf and moisture from the piston rod entering the system. This extends the service life of the seals and helps to protect the guide parts.

Our sealing systems offer suitable wipers with maximum reliability and durability for all types of cylinders and applications.



AB100
Wiper with bevelled lip



AB140
Wiper pneumatics



AB180
Wiper



AB110
Wiper with bevelled lip



AB150
High-performance wiper with bevelled lip



AB190
Double-acting wiper with supporting O-ring



AB120
Wiper with metal adhesive fit



AB160
Double wiper



AB200
Double-acting wiper with supporting O-rings



AB130
Wiper pneumatics



AB170
Double wiper

Hydraulic seals

ROTOR SEALS



Rotor seals are used to seal rotary and swivelling movements of shafts, often under high pressure, against operating fluids such as water, oil and grease. Mainly used in mechanical engineering and the construction machinery industry, a distinction is made between internal and external seals.

We offer a wide selection of the right sealing element for your application.



R0100
Radial shaft seal
with spring



R0110
Radial shaft seal
with spring and
dust lip



R0120
Radial seal



R0130
Radial seal



R0140
Radial seal



R0150
Radial seal with
O-ring



R0160
Radial seal with
O-ring



R0170
Radial shaft seal
with spring



R0180
Radial shaft seal
with spring dust
lip



R0190
Radial shaft seal



R0200
Radial shaft seal
with spring



R0210
Radial shaft seal
with spring and
dust lip



R0220
Radial shaft seal



R0230
Radial shaft seal
with dust lip



AX100
Axial seal



AX200
Axial seal



VR100
V ring



VR200
V ring

Hydraulic seals

BACK-UP AND GUIDE RINGS



Back-up rings provide the primary seal with optimum protection against extrusion under high pressure loads. This prevents the O-ring from penetrating into the sealing gap. We offer a wide range in endless, slotted or spiralsided designs.

Guide rings, on the other hand, as the name suggests, are used to guide the pistons or rods of a hydraulic cylinder. They also compensate for the sometimes high lateral forces, prevent metal-to-metal contact and thus optimise the performance and service life of the sealing system.



ST100

Back-up ring
straight



ST130

Back-up ring
bevelled



ST110

Back-up ring
curved



ST140

Back-up ring
bevelled



ST120

Back-up ring
bevelled



FB100

Guide band

Hydraulic seals

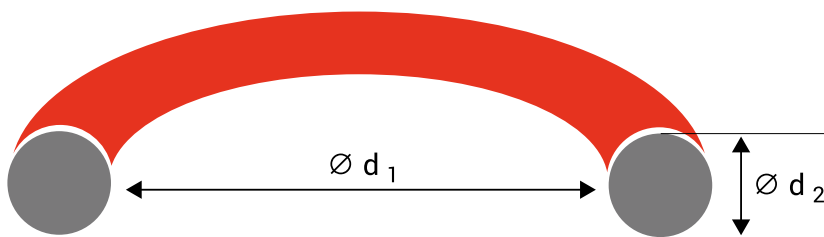
O-RINGS



O-rings are made of a ring-shaped elastic material and are installed in a groove to seal both radially and axially in order to seal liquids or gases.

O-rings with the largest possible cord thickness provide an optimum sealing effect.

The choice of material and its degree of hardness depends on the pressure of the liquid or gas, the static or dynamic application, the gap widths and the surface quality of the parts to be connected.



PACKINGS & PACKING RINGS



Packings & packing rings PACKINGS



Stuffing box packings, also known as shaft seals or barrier packings, seal the space between a rotating shaft or rod and its housing. They prevent liquids such as water, oil or chemicals from escaping from the system. They are made of braided fibres, which vary depending on the application and requirements. They are available in natural and synthetic fibres such as cotton, ramie, carbon/graphite, PTFE, PTFE/aramid or inorganic glass fibres.

The following parameters must be known when selecting the material: Application, pressure, temperature, fluid and speed. With this information, we can quickly determine the suitable material.

Packings & packing rings

PACKING RINGS



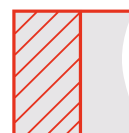
The use of pre-pressed packing rings is recommended for sealing stuffing boxes at the highest temperatures and pressures at which braided packings can no longer be used.

Pre-pressed graphite rings can be used as endless or split versions. The advantage of the split ring is that it is easy to refit without having to completely dismantle the stuffing box gland.

Pure graphite gaskets are widely used in all industrial sectors. They are used wherever high temperatures prevail or where substances characterised by particular aggressiveness are present. They are used, for example, in the manufacture of pumps or exhaust systems.

The versatility of these gaskets in particular makes them so attractive for many applications. For example, pure graphite gaskets can be supplemented with stainless steel flaps or impregnated with PTFE or copper in order to achieve better results and an optimised application. This also includes the use of graphite foil, which makes it possible to maintain sealing quality even at temperatures of more than 450 °C.

Sealing cap gaskets profiles



PA100



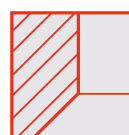
PA110



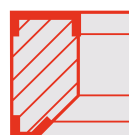
PA120



PA130



PA140



PA150

**We provide fast and reliable
assistance worldwide to protect you
from system downtimes.**

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