



**PT. Pandawa Mechatronics Indonesia**

# **FLEXIBLE & SEALING MATERIALS**

*"Our flat gaskets and seals are precise solutions and tailored exactly to individual customer requirements."*

**"The right rubber solution for every challenge"**

**PANDAWA**

**MECHATRONICS INDONESIA**

**Flexible without limits**

# OVERVIEW



Rubber  
Moulded Parts



Rubber-Metal  
Parts



Rubber-Plastic  
Parts



Gaskets  
Seals

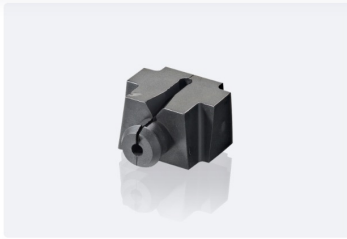


LSR-Silicone  
Parts



# Rubber Moulded Parts

**The right  
rubber  
solution  
for every  
challenge**



Rubber buffer for bodywork



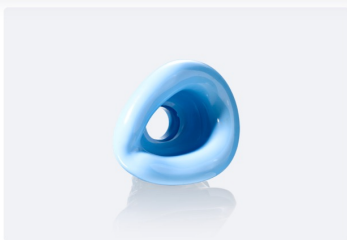
Double diaphragm sealing



U-ring



Distance piece for dental medicine



Breathing mask



Dust emptying valve



Rubber cylinder



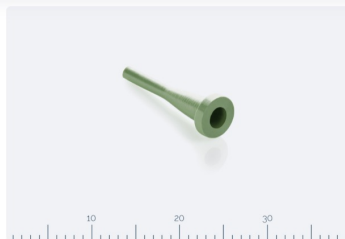
O-ring seal



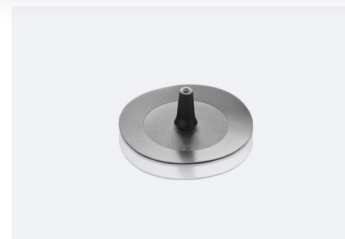
Gasket for auxiliary heating



Diaphragm for automotive



Seals for labelling systems



Umbrella valve

## Flexible without limits.

As a rubber specialist for technically sophisticated molded parts made from flexible materials, we use innovative production techniques not only for the manufacture of our high-performance composite parts, but also for the production of individual sealing and damping solutions. True to the motto "The right rubber solution for every challenge", our molded rubber parts continue to form the basis of our core business.

Our in-depth knowledge of materials plays a decisive role in this. They form the basis of our advanced process technologies, and our elastomer molded parts are the perfect result of our decades of experience.



# Rubber-Metal Parts



Contactpipe short



Standard pistons



Flapper element



Rubber to metal bonded gasket



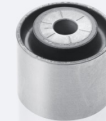
Occlusion insert



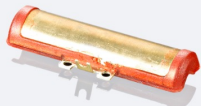
Standard pistons for valves



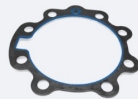
Valve plate for thermostats



Silent bush



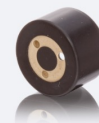
Electrode holder for measurement device



Gasket



Membrane for pressure chamber



Valve retainer



Vibration absorbers for lawnmowers



ACM seals

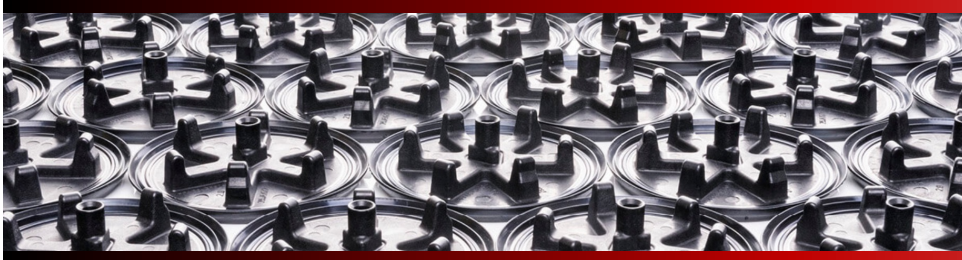


Gasket

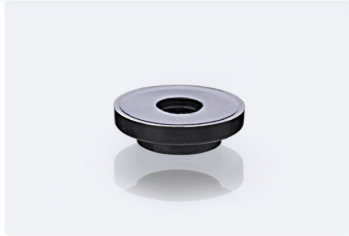


Valve plate





# Rubber-Plastic Parts



Sealing plate



Piston slide valve



Valve sealing



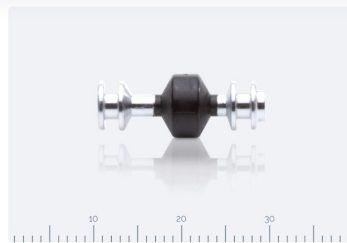
Rubber joint for orthopedic chairs



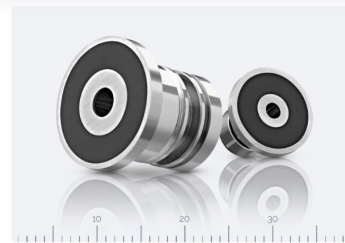
Armature for medical industry



Seal carrier



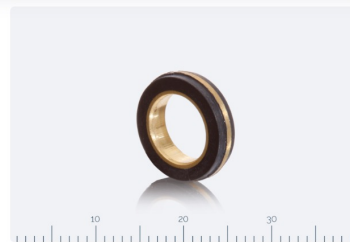
Valve piston



Control piston for proportional valve



Valve sealing



Sealing ring



Valve disc FVMQ



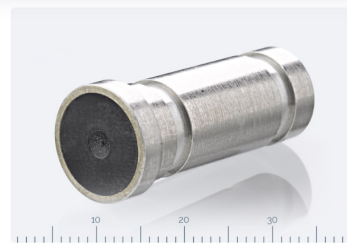
Running wheel



Armature conical



Supply air sealing for medical industry



Piston sealing



Sealing element isolation valve



# Gaskets Seals



Graphite gasket



Cork rubber gasket



Rubber edged gasket



Screen printed gasket

## Benefit from our expertise

- Extensive variety of materials:** We offer a wide range of materials depending on the application, such as solid and rubberised metals, or elastomer materials such as AEM, EPDM, CR, NBR, FKM, LSR, also graphite, cork, cellular rubber, PTFE, PU, aramid and fibre-reinforced sealing sheets. If desired, the gaskets can be provided with a coating, adhesive layer, screen printing or dovetail.
- State-of-the-art production technologies:** We work with you to select the optimum manufacturing process, taking into account annual requirements, batch sizes, area of application, tolerances and cutting qualities. Thanks to our advanced machinery, we utilise punching and water-cutting technologies, LIM, CM and TM for the production of your flat gaskets.
- Customised production:** Whether according to drawings, samples or special requirements, in small quantities or large series, with simple or complex geometries – we manufacture your flat gaskets for a perfect fit with maximum precision, which is essential for the functioning of your applications.
- Standards-compliant:** Our gaskets fulfil the highest quality and safety standards such as DIN standards, UL 94 V0 fire protection class / FMVSS 302 and food-safe qualities in accordance with EU 1935/2004 as well as FDA 177.2600, KTW / W270, DGVW EN549 and many more.
- Innovative solutions:** From heat-resistant seals for high-temperature applications to chemically resistant variants for aggressive media, our engineers and technicians offer comprehensive expertise and work with you to develop the ideal sealing solution – just in time.



# LSR-Silicone Parts



Instrument plating for dental medicine



Spray nozzle for sanitary technology



Silicon grommet for auxiliary heating



Membrane for medical technology



Microchip sealing



Roll diaphragm



Check valve



Heating check valve



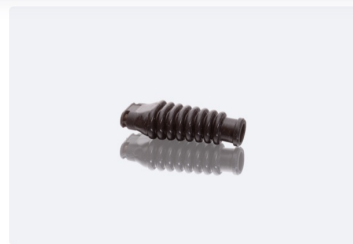
Housing part pressure sensor



Safety bellow



Duckbill valve



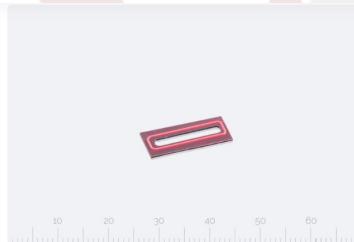
Connector protection cap



Membrane for pressure chamber



Lids for the foodstuff branch

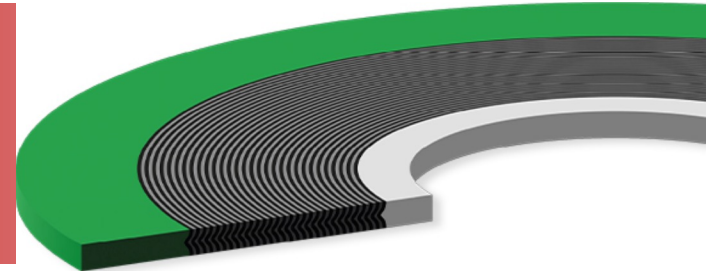


LSR-plastic microphone sealing

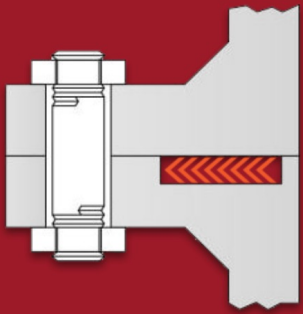


Armature for solenoid

# Applications – Spiral Wound

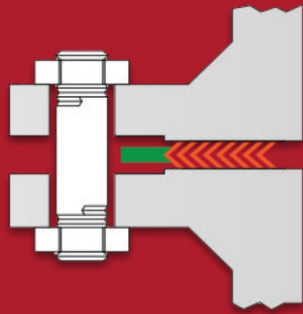


## Spiral Wound Gaskets



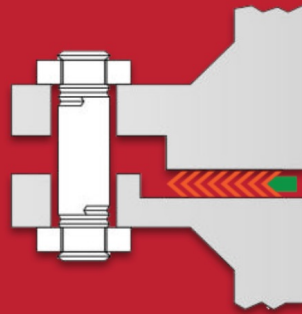
Type RF1

Spiral gasket only



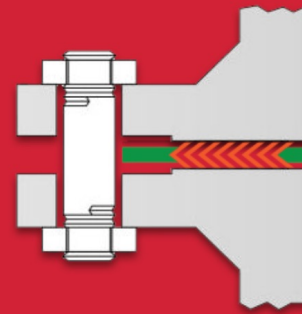
Type SG

Gasket with guide ring to act as a compression stop



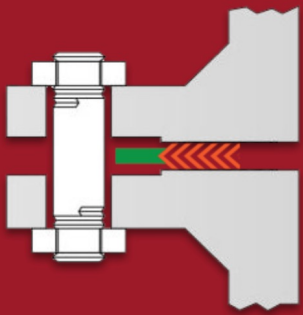
Type RF IR

Gasket with inner ring



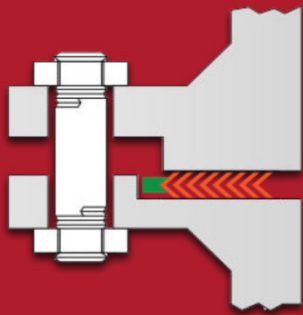
Type SG IR

Standard gasket with inner ring and outer rings



Type SG-RTJ

Special gasket for RTJ flanges



Type HX-R

For large diameter heat exchangers



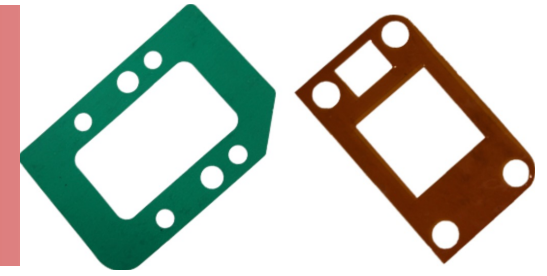
Type HX-RIR

As HX-R but with inner ring

### Special Profiles

Where an undesirable reaction between graphite and the medium to be sealed occurs, a spiral wound gasket with a GT-Zone can be effective in producing a seal that will not pollute medium and gives excellent gas tightness.

# Applications – Plastic



## Plastic Gaskets



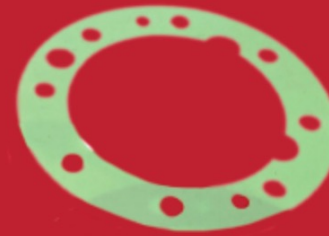
### Nylon Gaskets

Nylon packer and spacers gaskets can be cut to any shape to widths of 10mm from a range of sheet materials, such as Nylatron, using die-cut, laser and water-jet machinery.



### LDPE/HDPE Gaskets

Low density (LDPE) and high density (HDPE) are polyethylene plastics with properties of minimal moisture absorption, resistance to chemicals and good strength.



### Plastic shim Gaskets

We convert colour-coded plastic shim gaskets from a range of sheet materials including nylon, vinyl, acetate, polypropylene and polyethylene.



### Polycarbonate Gaskets

Polycarbonate has excellent impact, durability, heat and flame resistance properties. This thermoplastic provides high levels of mechanical, optical and electrical properties.

# Applications – Graphite



## Graphite Gaskets



### Reinforced Graphite Gaskets

Manufactured from reinforced graphite sheets for excellent corrosion and high-temperature resistance and compressibility.



### Tanged Graphite Gaskets

Reinforced with a tanged steel insert, tanged gaskets provide excellent creep resistance and chemical stability to temperatures of 2500°C.



### Foil Graphite Gaskets

Laminated with a thin stainless-steel foil for long-term stability on compression and recovery over a wide temperature and high-pressure range.



### Pure Graphite Gaskets

Pure graphite gaskets are widely used where high temperatures and aggressive substances are used in the process.



### Unimetal Graphite Gaskets

Graphite based wire mesh reinforced with polymer coating both sides for sealing resistant to a wide range of chemicals at extreme temperatures and pressures.



### Unigraph Graphite Gaskets

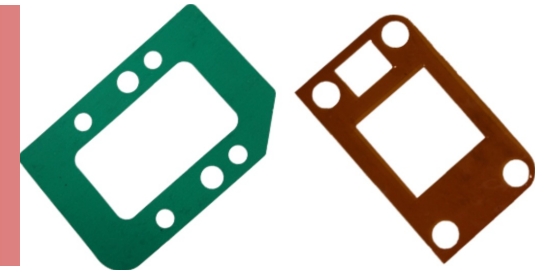
Graphite based with polymer coating both sides and suitable for sealing resistance to steam and aggressive chemicals up to 650° C and 120 bar.



### Graphite Eyelet Gasket

Adding an inner eyelet to the graphite gasket improves the overall resistance and life of the seal, particularly in situations with fluctuating pressures.

# Applications – Joint



## Gaskets for Joint



This is a CNAF (Compresses non-asbestos fibre) Full Face Gasket.



This is a CNAF (Compresses non-asbestos fibre) Raised Face Gasket.



Spiral wound gasket. Used with Raised Face Flanges. Composite of wound metal and a filler.



Commonly used as a gasket material in steam system applications. Includes one or more insertions of tanged 0.10mm thick stainless steel.



Standard ring joint gasket. This oval type should not be used with flat bottomed grooves.



The octagonal type has a higher sealing coefficient than the oval kind.



Although similar in style to the octagonal gaskets, the BX Series incorporate a pressure balance hole to ensure equalization of pressure which may get trapped in the grooves.



RX gaskets are designed for pressures up to 15,000 PSI. These gaskets are more costly than your standard oval or octagonal rings, making them less popular.



Terima Kasih | Thank You