



Mangla Rubber Technologies

Improving valve sealing performance



Liners | O-Rings | Seals | Diaphragms | Gaskets | Large Mouldings

HIGH PERFORMANCE SEALING TECHNOLOGY

Rubber Gaskets for Plate Heat Exchangers

Why us :

High Performance Rubber Gaskets

Longer life

Full Range of Makes & Models

40 Years Of Experience

Wide Variety of Materials

Food (FDA) & Industrial Grades

The Mangla Group was the first to develop & manufacture Rubber gaskets for Plate Type Heat Exchangers in India.

Our highly experienced technical team is available to discuss your requirements and offer you the best suited solutions.

Standard Materials :

NBR

1. High Temperature -20°C/+145° C
2. Low Temperature -40° C/+120° C
3. Low Hardness 60-70 Shore A

EPDM

1. Peroxide Cured -35°C /+150° C
2. High Temperature -35° C /+175° C
3. Low Hardness 60 to 70 Shore A

FKM

1. Industrial Grade -15° C/+200° C
2. High Fluorine -10° C/ +200° C
3. Steam Grade - 15° C/+200° C

Others

1. HNBR– Hydrogenated Nitrile
2. Polychloroprene
3. Butyl
4. Aflas



Diaphragms

These are manufactured with or without fabric reinforcement.

Our production process is based on science backed reasoning. Our best engineers are involved right from the concept stage up to field & cycle tests.

All our efforts are pointed in the direction of adding value to our products & to continually improving the product



Diaphragms Manufactured :

- Weir type
- Flat diaphragm
- Plate shaped diaphragm
- PTFE faced Diaphragms

Reinforcements :

1. Meta-aramid Fibers
2. Nylon
3. Rayon
4. Cotton

In Materials :

1. EPDM
2. FKM/Viton
3. Nitrile/NBR & HNBR

Inflatable Insert Seals for Dome Valves

- **Sizes up to 500 NB**
- **In Materials :**
 - **Silicone**
 - **Viton (FKM)**
 - **Neoprene**
- **For Temperature up to : 100°C and 200°C**
- **Excellent sealing performance**
- **Long service life**
- **High reliability**
- **Excellent Abrasion Resistance**



Image.: Insert Seals for a Dome Valve



O - Rings

O - Rings are perhaps the most well recognized forms of sealing elements and are used in virtually every industry.

We manufacture O-rings with:

- an Accuracy of 0.02mm
- sizes : up to 1400mm (55") OD moulded as one single joint less piece. Joint less construction increases the reliability.
- in a variety of materials tailored to suit your specific application requirements.

Our qualified Application Engineers are available to advise materials to suit your application requirements.

Materials :

MR1047: HNBR (Hydrogenated Nitrile)

MR1057: HNBR LT - for extreme low temp duties

MR1010: FKM (Viton)

MR1058: FKM LT - for Low temperature service

MR1049 & MR1028: EPDM FDA & Industrial grades

MR1050: EPDM - WRAS compliant for potable water

MR1020: NBR FDA & Industrial grades

MR1051: Silicone

MR1059: Aflas® - FEPM material

MR1052 - MR1055: Kalrez® /FFKM Ultimate performance material for chemical resistance and higher temperatures

Applications :

We have a rich experience in Sealing for:

Methanol Resistance

Low Temp Sealing

Amine Service

Hydrogen Sulfide (H₂S)

Carbon Dioxide (CO₂)

Sea Water

Potable Water

Food Contact Applications

Bio-degradable Lubricants

Data Sheets available on request.

Did You Know?

Space Shuttle Challenger : In January 1986, the space shuttle exploded into pieces within seconds after take-off, resulting in loss of lives of Astronauts on-board and the whole project altogether.

The reason for this failure was Wrong Selection of the O - Ring Material used!

Don't ignore the importance of sealing materials. Talk to our Specialists today & find out what suits your applications best!

**Because
it's a
Harsh World!**

Kalrez / FFKM O-Rings & Customized Parts



FFKM (Perfluoroelastomer) offer excellent resistance to chemicals and Extreme Temperatures. They are used in niche applications that involve severe chemicals at temperatures up to 330° C.

Currently, we offer four standard materials designed to suit various applications are as under :

FFKM (Perfluoroelastomer) offer excellent resistance to highly aggressive chemical processing, O&G recovery and Extreme Temperatures.

We can also supply direct FFKM equivalents to many Kalrez®, Perlast®, Chemraz® grades . Data Sheets available on request.

01

MR1052

Designed for Broad Chemical Resistance in Extreme environment

02

MR1053

Designed for Chemical Resistance in extremely demanding environment like Amines

03

MR1054

For Extreme Temperature resistance (280°C) & broad fluid resistance such as steam

04

MR1055

For Superior High Temperature capability (300°C) & Extreme Chemical Resistance

Available in form of :

- O-Rings
- Valve stem Seals
- Valve seats
- Diaphragms
- Gaskets
- Packer seals
- T-seals

Rubber lining for Butterfly Valves

Advice on Material compatibility

Our team of trained Engineers are available to provide guidance and support to choose the right material for your specific application requirements.

Extreme temperature capability

With our wide range of materials specifically developed for Butterfly Valves, there is a material to suit all your High and Low Temperature needs from -40°C to 330°C.

High Abrasion resistance

Is often a requirement in applications involving abrasive media or frequent operations. We can meet this requirement with complete confidence.

**Current Size capability : from
DN50 (2"NB) to DN1200 (48"NB)
And always willing to go further**

Excellent long-term sealing performance

Feedback obtained through our rigorous testing and field approvals in a wide variety of industries, has given us confidence to take on your sealing challenges.

Continuous R&D

Its our Continuous Research & Development activities that set us apart from many others. It is easy to manufacture black and shiny rubber. But every thing that glitters may not be Gold. **Material makes the real difference.** That's why we constantly strive to develop new and better materials.

Trusted by OEMs

Trust is a fragile thing, hard to earn, easy to lose. Among many other things, doing the things right, each time, is what has made us a preferred partner of OEMs.



Image: Rubber lining of large size Butterfly Valves to suit API

Replaceable liners & Fixed Moulded-in type

In Materials:

- EPDM FDA (Food) & Industrial Grade
- Silicone FDA (Food) & Industrial Grade
- Nitrile (Food) & Industrial Grade
- Viton (FKM) FDA (Food) & Industrial Grade
- HNBR FDA (Food) & Industrial Grade



Image: EPDM Seat for Butterfly Valve



Image: Food Grade Silicone Seat for Butterfly Valve

Vast Experience: in manufacturing & Supplying replaceable type liners. We also undertake rubber lining of Fixed Moulded-in type butterfly Valve.

API: We manufacture butterfly liners complying to API requirements.



Image: A Butterfly type Valve



Image: Full size range for Aluminum bonded type rubber seats

Client Testimonials



“ You are always able to deliver products to suit our requirements & specifications within stipulated time frame. Your Quality is up to the mark and product performance satisfactory. You have a sound technical team, friendly and open to take up new challenges. We wish you all the best! “



“Mangla Rubber Technologies have always been successful in Indigenizing Rubber Products as per our specifications, which we used to import from another country. In the whole time you have never let us down. The product quality has been never a problem and when we had an issue you always helped us.

This reliability is where we trust in and what makes our decision to work with you also in the future very easy.”



“We have replaced the new EPDM liners supplied with the valves, with the Mangla make EPDM liners. This has given us double the life! Well done Team Mangla! ”

About US :

Mangla Rubber Technologies is a family run business with a history of 40 years into Seals and Sealing Technology.

We take pleasure in introducing ourselves as manufacturer of Specialty high performance Rubber Components for Heavy Industries like Chemical Plants, Refineries, Distilleries, Sugar mills, Power plants etc. We are also associated with several OEMs of International repute.

We are a company of technically qualified engineers in the field of Rubber Technology with rich industrial experience in India and abroad.

The management of MRT is well qualified from top universities of India and abroad, is rich in technical know-how and is highly competent.

Complete Customer Satisfaction and Continuous Improvement forms the basis of our foundation.

Our manufacturing facility includes Compression and Injection Moulding machines. Currently we have presses with platen size up to 1420mm (55”) x 1420mm (55”).

You can be assured of our field leading rapid turnaround of your product, saving you precious hours in downtime.



Mangla Rubber Technologies

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