

INDIA'S NO.1 MANUFACTURER



Since 1973

Leak-Proof Engineering

THE ART OF MAKING
HIGH PRESSURE

**DRY GAS
SEAL**

50 YEARS OF ENGINEERING EXCELLENCE





Since 1973

Leak-Proof Engineering

WHO WE ARE

We provide sealing solutions to the process industry all over the world. Our approach – to keep challenging our boundaries and enhancement to our capabilities – makes us one of the best mechanical seal manufacturing company in India.

WHAT WE DO

We build trust in our customers by providing innovative sealing solutions through our engineering skills, years of experience and technology. From in-house design to manufacturing and testing, we make world class products for our customers.

We manufacture Mechanical Seals, Seal Support Systems, Rotary Joints, Bearing Isolators, Flexible Graphite Packings and Self-sealing Rings. Our products provide one-stop sealing solution for process industries including Oil & Gas, Petrochemicals, Refineries, Pharmaceuticals, Power Generation, Chemicals, Paper & Pulp, Fertilizers, Cryogenic, Textile, Pigment & Dies, Food Processing, Mining, Steel, Bio-Tech, etc.

OUR JOURNEY

We started our journey in the year 1973 with a small manufacturing unit and became the first company to manufacture a Mechanical Seal in India. Since then, we have been focused on bringing new products and technology to provide advanced solutions to Indian process industry. After the success of a Mechanical Seal products, in 1983, we introduced products like Flexible Graphite Packings and Self-sealing Rings first time to Indian market.

Over the period of time, we enhanced our manufacturing capability through implementing in-house manufacturing process for Silicon Carbide & Ceramic faces, Metal Bellow welding, etc. Needless to say, we were the first mechanical seal company in India to have these manufacturing processes in-house.

Today we have more than 60,000 sq. ft. state-of-the-art manufacturing facility, in the state of Gujarat in India, which covers all mechanical seal manufacturing processes in-house. Mechanical Seal Test Facility includes API 682 Seal Test Rigs, Dry Gas Test Rig, Agitator Seal Test Rig, Non-Contacting Seal Test Rig, High-Pressure & High-Speed Test Rig, Cryogenic Seal Test Rig, etc.

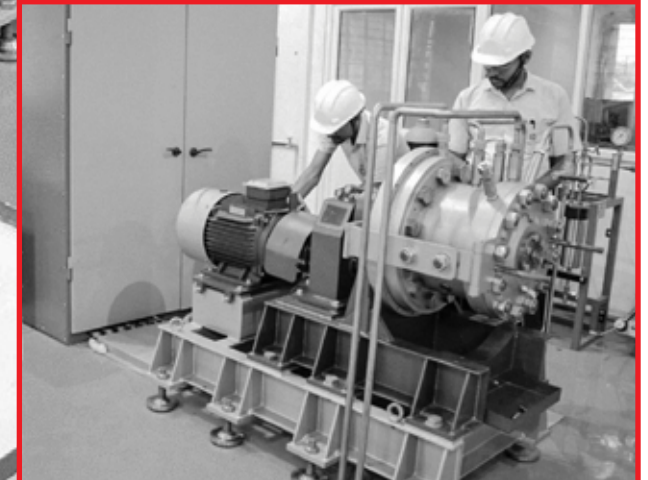
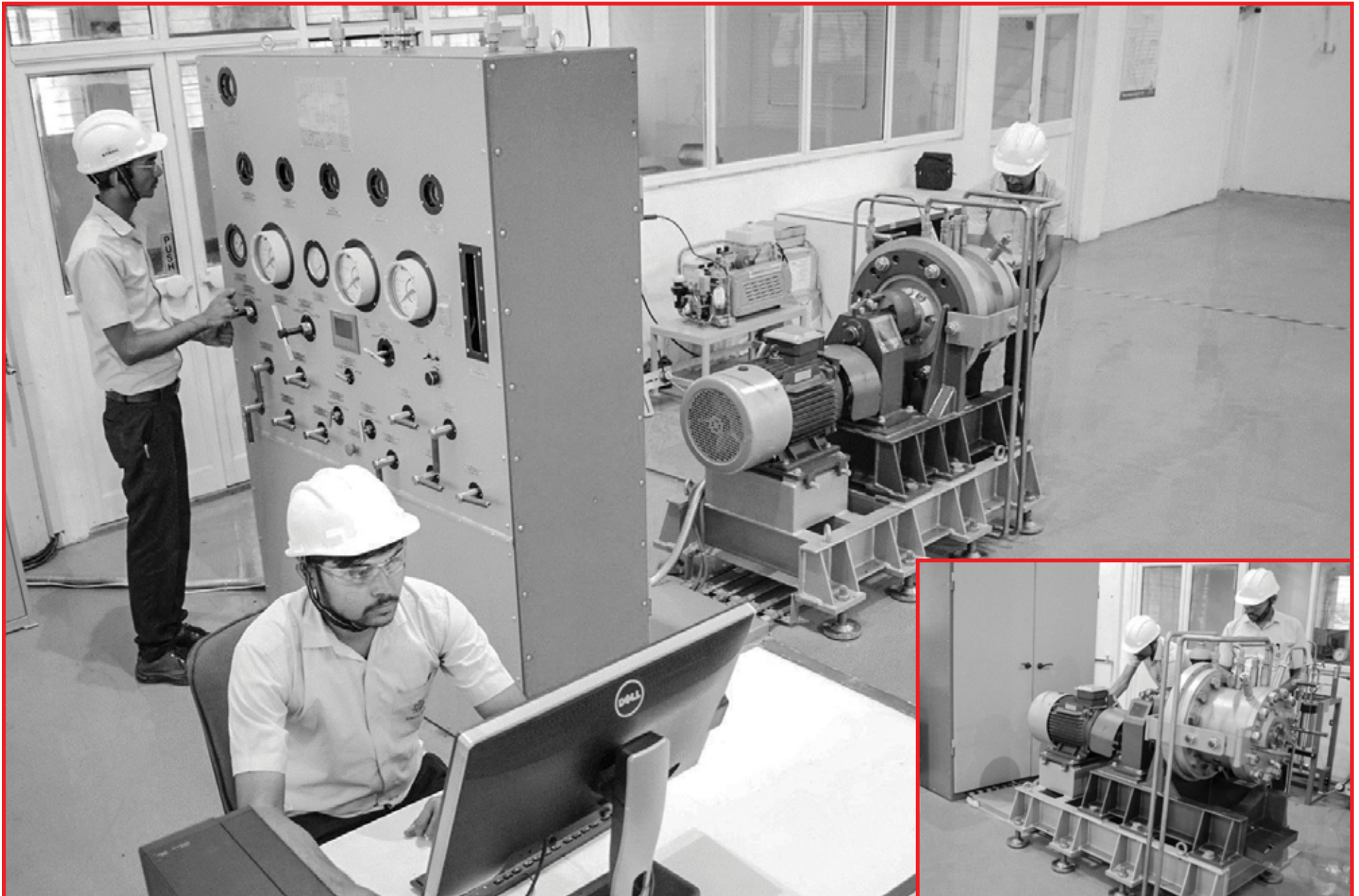
For a better reach & service to our customers, we have developed a nationwide network of 16 Branch Offices, 7 Regional Offices and a refurbishment facility with a competent sales and service personnel team.

With a vision of global expansion, we have established state-of-the-art production facility in Abu Dhabi, UAE and refurbishment facility in Al-Jubail, Saudi Arabia with sales & services offices across the continents.

OUR PRINCIPLES

We have embraced Knowledge, Courage and Integrity as our core principles to achieve day-to-day activities with high-performing culture. Our principles are deep rooted in our processes and business practices. These principles not only help us in nurturing our approach and growth, also enhance our ability to achieve our purpose and be competitive.





DRY GAS SEAL DEVELOPMENT

Leak-Proof Engineering has a track record in the field of Dry Gas Seals as we are the first Indian company to have in-house development and test facility for the Dry Gas Seals. From manufacturing to the in-house testing & field servicing, we provide a wide range of services to our esteemed clients with dedication and continuous development in the Dry Gas Seal product-line.

QUALIFIED WORKFORCE

Work is carried out by our qualified service engineers' team with years of experience of on and off-site Dry Gas Seal Servicing. Team is trained and equipped with sophisticated tools for servicing and technical support from a highly skilled engineering team to tackle the challenges.

PROMPT SERVICE

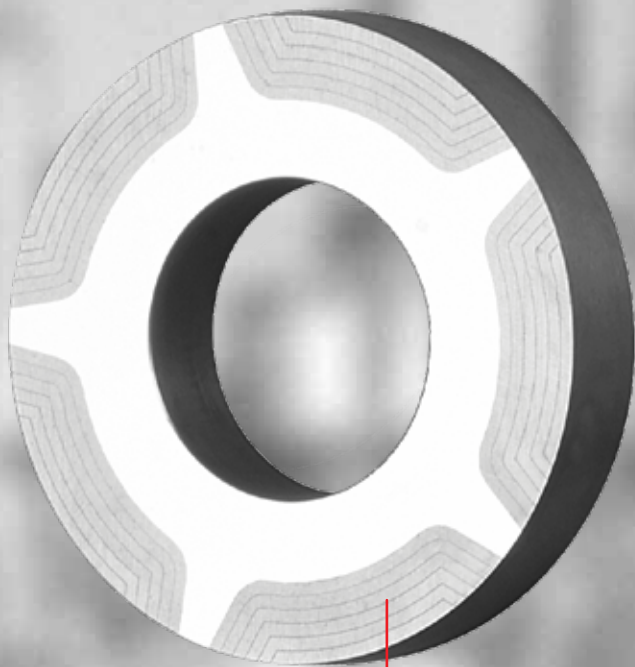
Leak-Proof Engineering provides services for the installed Dry Gas Seal systems including seals, seal support system and spare parts. Wide range spares for O-Rings, Springs, Bushings, etc. are stocked and maintained for the prompt service. Leak-Proof Engineering has vast experience in carrying out on-site services by the team of experienced technicians, Operative repair and component refurbishment at the customer's workshop make a significant impact on the cost and time. On-site Dry Gas Seal servicing doesn't require the seal to be shipped to the manufacturer and ensures quick turnaround time for the service.





Since 1973

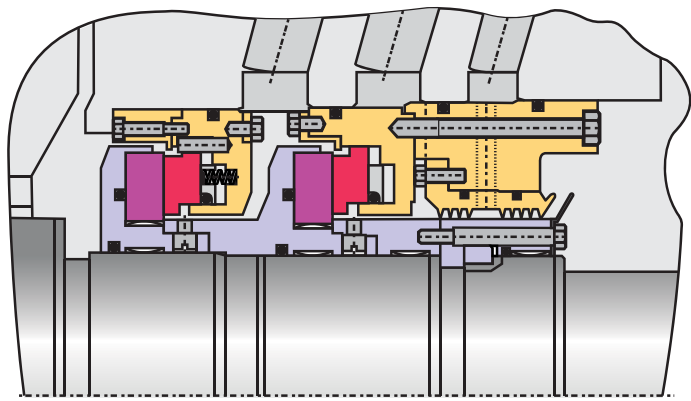
THE ART OF MAKING HIGH PRESSURE **DRY GAS SEAL**



WAVY GROOVE

SPIRAL GROOVE





LPG-702TL

**TANDEM
DRY GAS SEAL WITH
LABYRINTH SEAL**

Limiting parameters

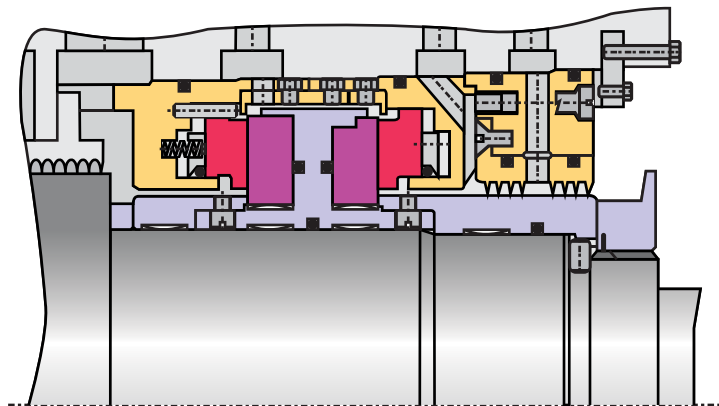
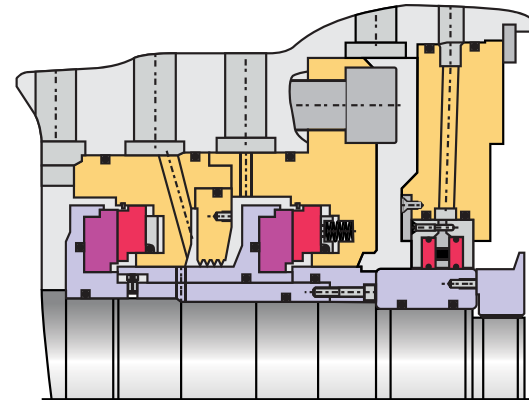
- ◆ Sealing pressure, bar - 300
- ◆ Rotational speed, m/sec - 200
- ◆ Temperature, °C - 250
- ◆ The shaft size under the seal, mm - 28...300

LPG-702TC

**TANDEM
DRY GAS SEAL WITH
SEPARATION SEAL**

Limiting parameters

- ◆ Sealing pressure, bar - 300
- ◆ Rotational speed, m/sec - 200
- ◆ Temperature, °C - 250
- ◆ The shaft size under the seal, mm - 28...300



LPG-702TN

**TANDEM
DRY GAS SEAL WITH
DRY RUNNING
BARRIER SEAL**

Limiting parameters

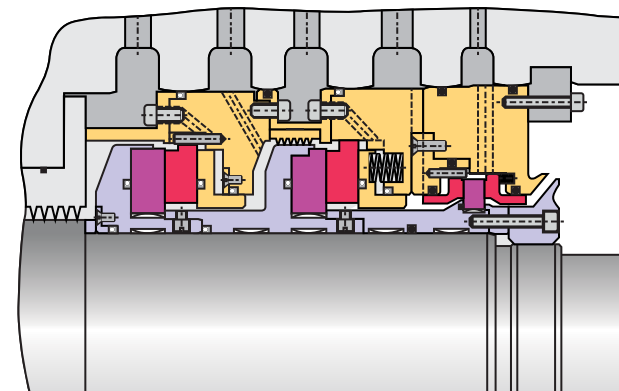
- ◆ Sealing pressure, bar - 300
- ◆ Rotational speed, m/sec - 200
- ◆ Temperature, °C - 250
- ◆ The shaft size under the seal, mm - 28...300

LPG-702FL

**DOUBLE
DRY GAS SEAL WITH
LABRINTH SEAL**

Limiting parameters

- ◆ Sealing pressure, bar - 100
- ◆ Rotational speed, m/sec - 150
- ◆ Temperature, °C - 250
- ◆ The shaft size under the seal, mm - 28...300

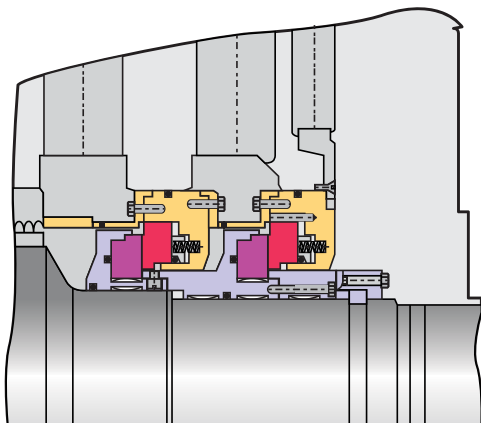


LPG-701SL

**SINGLE
DRY SEAL WITH
LABYRINTH SEAL**

Limiting parameters

- ◆ Sealing pressure, bar - 250
- ◆ Rotational speed, m/sec - 200
- ◆ Temperature, °C - 250
- ◆ The shaft size under the seal, mm - 28...300

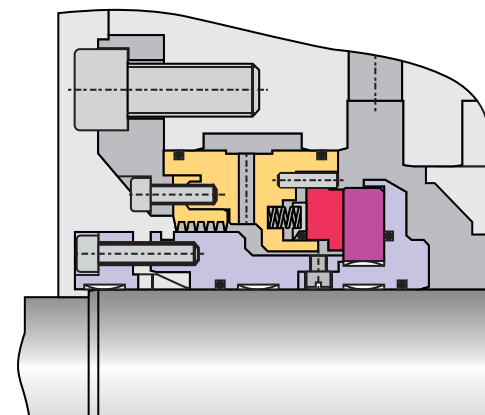


LPG-702TE

**TANDEM
DRY GAS SEAL
WITH EJECTOR**

Limiting parameters

- ◆ Sealing pressure, bar - 300
- ◆ Rotational speed, m/sec - 200
- ◆ Temperature, °C - 250
- ◆ The shaft size under the seal, mm - 28...300



DESIGN FEATURES AND SIMPLE SOLUTIONS

Leakproof Dry Gas Seal is a combined outcome of various processes viz. optimized design, precision manufacturing, and proper testing. Product validation is carried out with a planned seal qualification testing procedure and digitalized equipment, under the supervision of qualified and trained engineers. Our unique design of hydrodynamic grooves that has the capability of working over a wide range are developed within our Leakproof facility. This piece of art operates in various engineering sectors and industries like Oil and Gas Industry, Pharmaceutical Industry, Chemical Industry, Food Processing, Power plants sector, etc. proving its worth and successfully serving its purpose under high pressure and speed.



LEAK PROOF PROVIDES THE REALIZATION OF VARIOUS FUNCTIONS OF DGS

About 25% of dry gas seal failure occurs due to oil migration into the seal. This seal not only avoids leakage of product/hazardous gas into the environment but also prohibits the adjacent bearing oil to enter. This is achieved using our DGS in combination with other seals like separation seal and labyrinth seal. Together it results in no process gas leakage to bearings in case of seal failure, increased life of the seal, prevents shut-down of equipment and reduced service cost.

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	<p>www.leakproofseals.com</p>





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LEAK-PROOF ENGINEERING INDIA PRIVATE LIMITED.

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