

**western**  
**sealtech**





LATE MR. KANUBHAI C. SHAH  
*Founder,*

**SUCCESS** is certain  
when you move from  
**ONE FAILURE** to another,  
without losing **ENTHUSIASM**

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# ABOUT US

Established in 1972, Western Sealtech specializes in manufacturing inflatable seals, rubber extrusions & rubber/PTFE diaphragms. With over 50 years of experience, our seals are made up of elastomers having specially developed in-house formulations, which make our seals not only appealing in aesthetics but also long lasting in extreme environments. We take pride in extruding intricate shapes and designs, which have otherwise been difficult to manufacture. We guide and work with our clients to meet their stringent parameters on compression set, elongation, hardness, density and other such physical as well as chemical properties which are required in their application

# OUR STORY

Western Sealtech is a globally recognized company that was established by Late Mr. Kanubhai Shah in 1972. The company had a humble beginning in a small garage with an area of 100 sq feet, but has since expanded to become a family of over 150 people, with its headquarters located in Mumbai, India, and 2 manufacturing plants in Umbergaon (Gujarat), India, as well as a sales office in Delaware, USA.



# OUR VISION & MISSION

**Our Vision** is to offer the most secure sealing solution for challenging applications across the globe.

**Our Mission** is to fulfil our vision via unparalleled customer centric approach.

# OUR VALUES

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## INTEGRITY

"Integrity is doing the right thing, even when no one is watching."

-C.S Lewis

## COMMITMENT

"Commitment is what transforms a promise into a reality."

-Abraham Lincoln

## PASSION

"The greatest feeling in the world is getting paid to do what you love."

-Anonymous



# OUR MOTTO

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## UNCOMPROMISING PEOPLE

We strive for honesty and integrity with a no-giving-up attitude in our people.

## UNCOMPROMISING PRODUCTS

We strive for the best possible quality of products that can exceed industry benchmarks.

## UNCOMPROMISING SERVICE

We strive for excellence in service, making sure to always delight our customers.

# OVERVIEW

ESTABLISHED IN	1972 50+
YEARS IN BUSINESS	100+ 36,000
EMPLOYEES	SQ FT 200+
FACILITY AREA	40+
GLOBAL CUSTOMERS	COUNTRIES
MARKET PRESENCE	100 TONNES
MATERIAL CONSUMED	P.A.
POLYMERS USED	15+
NUMBER OF TOOLS MADE	5000+



## WHY US?



### FASTEST ORDER TURNAROUND TIME

Enabled by a team of highly experienced in-house tool designers, machine operators, hands-on sales coordinators, and quality control personnel.



### IN-HOUSE TOOLING & COMPOUNDING

“All under one roof” approach. Complete control over every activity, from tool fabrication to compound development to manufacturing, quality control, and dispatch.



### GLOBALLY COMPETITIVE PRICING

Bulk exports and volume productions enable us to transfer additional cost benefits to our customers whilst matching global standards of production and quality.



### JUST-IN-TIME (JIT) DELIVERY

Having reputed logistics partners across the globe enables us to ensure Just-in-Time (JIT) delivery of goods at your doorstep and unmatched customer experience throughout the supply chain.

## INDUSTRIES WE CATER TO



Pumps & Valves



Pharmaceutical



Aeronautics



Fluid Handling



Nuclear



Ship Building (Yachts)



Door & Window Manufacturing



Paper Manufacturing

## MARKET SHARE (IN %)





# OUR PRODUCTS

INFLATABLE SEALS

RUBBER EXTRUSIONS

RUBBER & PTFE DIAPHRAGMS

OTHER PRODUCTS

# INFLATABLE SEALS

Western Sealtech Inflatable Seals are rubber seals which inflate (rather than compress) to offer contamination proof sealing in a wide range of applications. When compared to regular elastomeric seals, inflatable seals work effectively between irregular or misaligned surfaces, thus enhancing their sealing integrity. They are specifically designed to inflate, which ultimately helps to form a tight barrier between the mounting and striking surface. Inflatable seals are simpler to use as they demand less force while guaranteeing 100% sealing.

## STRENGTHS

Can seal uneven surfaces; no demands on the flatness of mating surface for sealing

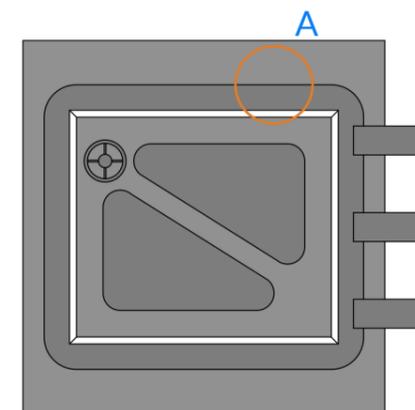
The inflation property allows for sealing of gaps with wide tolerances

Overcomes issues arising from compression set, commonly observed in regular gaskets

Offers tight sealing in pressurized environments, as well as effective sealing in aggressive and extreme environments

Better operational seal life

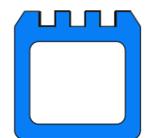
## INFLATABLE SEAL: IN ACTION



AIRTIGHT DOOR FOR NUCLEAR FACILITY



DETAIL AT "A": Seal in Normal Condition (Door Opens)



DETAIL AT "A": Inflated Seal (Door Closes)

## MANUFACTURING CAPABILITIES

Western Sealtech possesses the engineering capabilities of manufacturing both non-reinforced as well as fabric reinforced inflatable seals.

### FABRIC REINFORCED CONSTRUCTION



- Suitable for applications involving extreme pressure/temperature
- Ideal for rugged and chemically aggressive environments like nuclear plants, ocean beds, etc.
- Fabric reinforcement adds to the seal's overall strength and resilience
- Superior seal life
- Complex manufacturing process with high levels of precision labour
- Higher pricing compared to non-reinforced seals

### NON-REINFORCED CONSTRUCTION

- Constructed only from elastomers
- Can withstand a pressure differential of up to 3 to 5 bar, depending on the seal profile
- Relatively cost effective when compared to fabric reinforced seals
- Preferred option for most sealing requirements



NOTE: Please refer to Western Sealtech Inflatable Seals Catalogue on Page 26 for more details.

## APPLICATIONS

Inflatable seals are widely used in a range of industries across the globe, which include pharmaceutical, pulp and paper manufacturing, food and beverages, ship building, door/container manufacturing units, bulk material handling, aerospace, and other engineering industries. Some specific applications where inflatable seals are used are shown below.

NOTE: Scan the QR Code to watch the applications in action!



CLEAN ROOMS/  
GAS TIGHT DOORS



ROBOTIC  
CLAMPS



BUTTERFLY  
VALVES



SATELLITE  
TRANSPORTATION  
CONTAINERS



FLUIDIZED  
BED DRYERS



VIBRATION  
TESTING  
ROOM



NUCLEAR  
CONTAINMENT  
FACILITY



HATCH DOORS:  
YACHTS & AIRCRAFTS

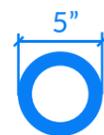


DOCTOR BLADES  
IN PAPER  
MANUFACTURING

# RUBBER EXTRUSIONS

Western Sealtech specialises in rubber extrusions since 1972. Our seals are made from compounds that are specially developed using in-house formulations, which make our seals not only appealing in aesthetics but also long lasting in extreme environments. We take pride in extruding intricate shapes and designs, which have otherwise been difficult to manufacture. We guide and work with our clients to meet their stringent parameters on compression set, elongation, hardness, density, and other such physical as well as chemical properties which are required in their application.

## UNIQUE FEATURES

 Profile sections as large as 5 inches in diameter can be extruded

 2500 extrusion dies

 Prototyping in less than 2 weeks

 Spliced and vulcanized gaskets

## SPLICED AND VULCANISED GASKETS



A very large number of gaskets at Western Sealtech are manufactured by splicing and vulcanising extruded elastomer profiles. The extruded profile is first cut with precision (splicing). The loose ends of this seal are then bonded together by applying uncured compound (the same as used in the extruded seal) at the point where the ends meet. This joint is then moulded at high temperatures for a specified period of time to form a strong unbreakable bond. Western Sealtech is known for offering the best joins for gaskets since the joins are compression moulded rather bonded using adhesives.

### APPLICATIONS OF VULCANIZED GASKETS



DETAIL AT "X": Vulcanized gasket for Clean Room Door



DETAIL AT "Y": Vulcanized silicone gasket, with the ability to withstand temperatures upto -80 °C, for sealing freezer doors.



ENLARGED VIEW OF VULCANIZED JOINT

## MANUFACTURING CAPABILITIES



RUBBER TUBINGS



RUBBER STRIPS



SPONGE EXTRUSIONS



CUSTOM EXTRUSIONS



INFLATABLE SEALS



REINFORCED HOSES

## APPLICATION OF RUBBER EXTRUSIONS



METRO DOORS



COMMERCIAL DOORS



AUTOClave DOORS



BIO HAZARD DOORS



HANGAR DOORS



HATCH DOORS



PHARMACEUTICAL INDUSTRY



PHARMACEUTICAL INDUSTRY

# RUBBER & PTFE DIAPHRAGMS

Western Sealtech is a leading manufacturer of Rubber and PTFE diaphragms with a global distribution network. Diaphragms are used in a range of industries across the globe, like in assemblies of pumps, valves, and actuators to regulate the flow and transfer of fluids. Rubber/PTFE diaphragms function as flexible barriers between two chambers, preventing the movement of fluids or contaminants from one chamber to another. They may be static or dynamic rubber seals.

## UNIQUE FEATURES



In-house tooling facility available for mold making



Manufacturing of OEM replacement diaphragms

0.25" - 55"



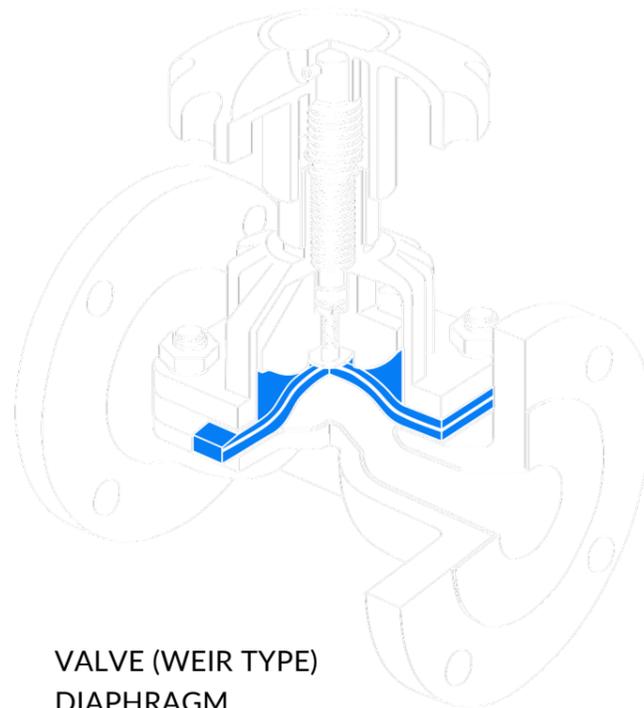
Diaphragm sizes range from 1/4" to 55" diameter



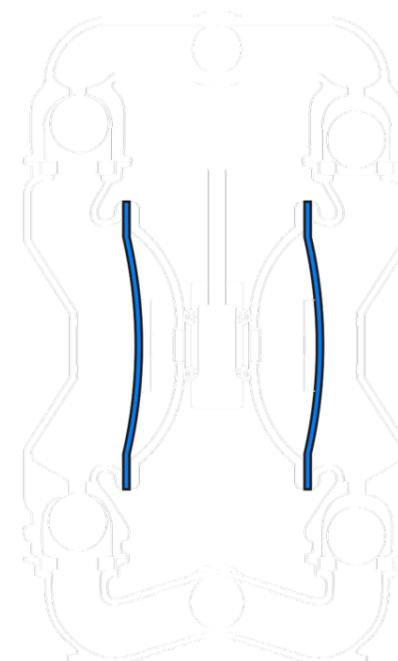
Specific elastomers can be used to withstand extreme temperatures (-100°C to +300°C)



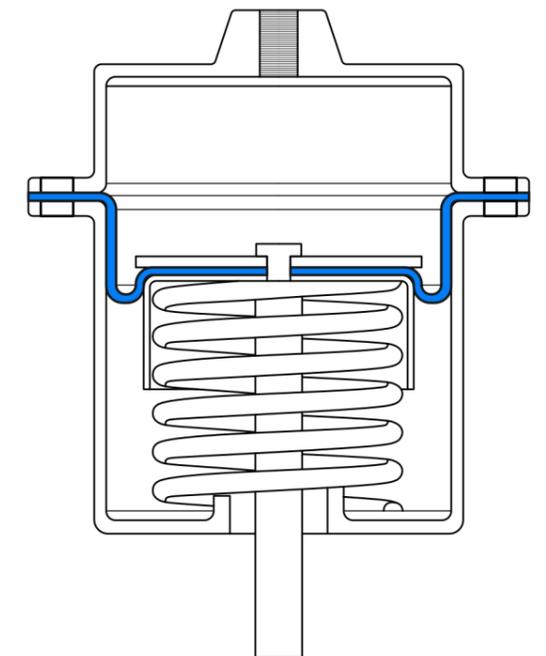
Fabric reinforced diaphragms can be used to withstand pressure up to 1000 psi (68 bar)



VALVE (WEIR TYPE) DIAPHRAGM



PUMP DIAPHRAGM



ROLLING (ACTUATOR) DIAPHRAGM

## MANUFACTURING CAPABILITIES

Western Sealtech manufactures the following categories of Rubber and PTFE diaphragms:

### VALVE (WIER TYPE) DIAPHRAGMS



Valve diaphragms by Western Sealtech are sturdy and flexible seals that allow for opening, closing, and controlling of the valve. Diaphragms are carefully engineered for enhancing valve performance, promising superior flex life, saving significant labour costs, and guaranteeing excellent sealing functionality.

### PUMP DIAPHRAGMS

Along with diaphragms for valves, Western Sealtech possesses the capability to manufacture pump diaphragms too. It is safe to say that a suitable diaphragm is among the most critical components of an AODD pump. The pump will simply fail in its purpose if there is any kind of leakage. Hence, selection of a correct diaphragm is extremely crucial for the safe, efficient, economic, and hassle-free operation of an AODD pump.



### ROLLING (ACTUATOR) DIAPHRAGMS



Rolling diaphragms manufactured by Western Sealtech are flexible fluid control devices. They find critical application in systems involving sealing function between a cylinder and piston. Rolling diaphragms are usually manufactured using a combination of elastomer and fabric i.e. a layer of fabric reinforcement sandwiched between two elastomeric layers.

## APPLICATIONS

Diaphragms find their use in all industries involving corrosive, viscous, and abrasive slurries. Some of these industries include:



OIL & PETROLEUM



FUEL & POWER



CHEMICAL PROCESSING PLANTS



PULP & PAPER



CEMENT



MINING & MINERALS

**NOTE:** Please refer to Western Sealtech Rubber & PTFE Diaphragms Catalogue on Page 26 for more details.

# OTHER PRODUCTS

Western Sealtech covers a very wide range of products under its domain. Apart from silicone extrusions, inflatable seals, and diaphragms, we possess the manufacturing capabilities for producing the following components:

## RUBBER GASKETS

Rubber gaskets act as a static seal between two irregular flange faces, and are made to operate under various conditions with varied pressure and temperature ratings. Western Sealtech manufactures rubber washers, flange gaskets, TC gaskets, manhole gaskets, and butterfly valve gaskets



## O-RINGS

O-rings are round, mechanical gaskets used as sealing instruments. They are designed to be seated in a groove and compressed during assembly between two or more parts.

## RUBBER BELLOWS

Rubber bellows or Boots are special kinds of rubber products, which can move in a particular direction and return back to their original shape upon release of tension.



## RUBBER GROMMETS

Rubber grommets are useful in electronic applications when a wire or tube needs to pass through metal or another material that may cause damage. Grommets are usually used to cover the rough edges of a hole in a metal plate to protect whatever is passing through it.



## RUBBER BONDED PRODUCTS

In certain applications, rubber has to be bonded with metals, engineering plastics, wood, fabric, etc. to meet the required demands in terms of strength, flexibility, hardness, pressure or temperature resistance.

## RUBBER SHEETS

Western Sealtech manufactures both reinforced and non-reinforced rubber sheets. Reinforced sheets have one or multiple layers of fabric between them.



# OUR CLIENTELE



# OTHER CATALOGUES



## RUBBER EXTRUSIONS

VIEW ON OUR WEBSITE

<https://www.westernsealtech.com/rubber-extrusions/>



## INFLATABLE SEALS

VIEW ON OUR WEBSITE

<https://www.westernsealtech.com/knowledge-center/>



## RUBBER & PTFE DIAPHRAGMS

VIEW ON OUR WEBSITE

<https://www.westernsealtech.com/knowledge-center/>



## FOOD + PHARMACEUTICAL TUBINGS & HOSES

VIEW ON OUR WEBSITE

<https://www.westernsealtech.com/knowledge-center/>



## RAIL AND MASS TRANSIT

VIEW ON OUR WEBSITE

<https://www.westernsealtech.com/knowledge-center/>



### **Head Office**

Office No. 1012, 72 Corp, Sakinaka,  
Near Metro Station, Andheri (E), Mumbai  
400072, MH, India.

### **Sales Office (USA)**

3524, Silverside Road, Suite 35B,  
Wilmington, Delaware 19810-4929.

### **Western Rubbers Europe B.V.**

Smederijstraat 2, 4814 DB Breda,  
Netherlands

### **Manufacturing Unit 1 & 2**

Plot No, 21 And Plot No. 24, Survey No.  
1994 and 1997, At Daheri, Umbergaon,  
Valsad, Gujarat 396171, India

Plot no. 28, Survey No. 39, At Daheri,  
Umbergaon, Valsad, Gujarat 396170,  
India



[www.westernsealtech.com](http://www.westernsealtech.com)



[sales@westernsealtech.com](mailto:sales@westernsealtech.com)



+91 9130026591 | +91 9130026592



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