



Professional Innovation Cooperation Win-win



JST SEALS



JST Seals is a leading manufacturer of high-performance seals for countless industries including construction, oil and gas, semiconductor, LNG, wind power, chemistry, coal mining, medical equipment and others. We aim high and look far, providing professional and reliable sealing solutions for particular harsh applications.

JST has passed ISO9001 certification, API Q1 certification and HSE certification.

JST is committed to innovation, and has developed over 50 patented products and counting, JST products are winning growing trust from customers.

JST keeps increasing production capacity to meet the rising demand from customers. We have automatic production workshop, elastomer seal production workshop, polymer seal production workshop, class 10,000 clean room, and tooling processing workshop, and R & D center. For over 28 years, we are committed to our mission of “Fuel social development of mankind via sealing technology”.

JST is aimed to be the most professional SMART seal producer.



## R & D TESTING CAPABILITIES



JST has a complete technical system, including material formulation laboratory, comprehensive performance laboratory for high & low temperature and high pressure products, - 196°C cryogenic temperature laboratory, equipped with high and low temperature tensile testing machine, material abrasion testing machine, material immersion testing machine, low temperature retraction testing machine, DSC vulcanization tester, carbon black dispersion analyzer, creep tester, finite element analysis (FEA), and in combination with the company's PLM system, it can make deeper researches on elastomer materials, polymer composites and product performance.



### Main Products:

- ◆ API 6A gate valve seal
- ◆ API 6A wellhead equipment seal
- ◆ Downhole packer element
- ◆ Downhole seal stack
- ◆ Well service pump packing
- ◆ Hammer union seal
- ◆ API 6D ball valve and LNG seal
- ◆ Hydraulic seal
- ◆ FFKM seal / O ring
- ◆ Oil-free lubricated pump seal

### Ability:

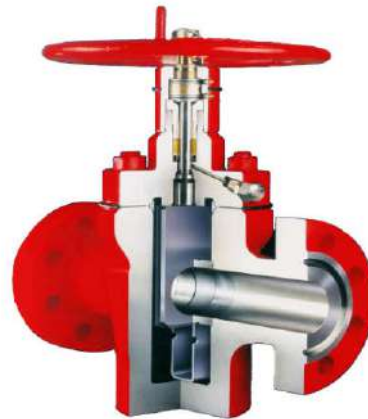
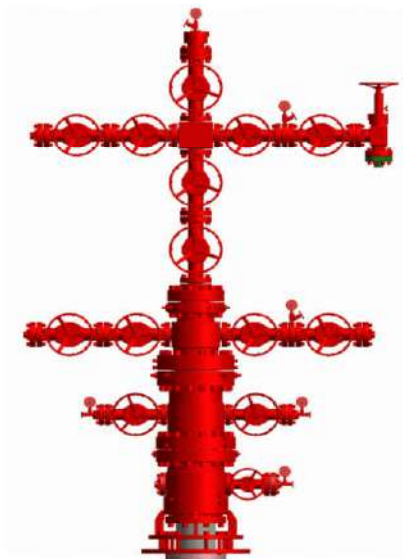
- ◆ API Spec Q1
- ◆ ISO 9001:2015
- ◆ HSE management system
- ◆ API 6A PR2 test
- ◆ RGD test
- ◆ H2S immersion test(Norsok M710)
- ◆ Low temperature test(-196°C)
- ◆ FEA/Finite Element Analysis
- ◆ R & D center
- ◆ More than 52 patents & inventions





## API 6A Gate Valve Seal

To meet the characteristics and requirements of API 6A gate valve, JST adopts modified PTFE, PEEK or other materials, working with Elgiloy, Inconel, or Stainless Steel springs to develop a wide range of seals with high and low temperature resistance, high pressure resistance, good chemical corrosion resistance to H<sub>2</sub>S, which passed the API 6A Annex F PR2 tests.



## Wellhead Equipment Seal



For wellhead casing head, tubing hanger, JST provides elastomer seals including FS-seal, S-Seal, P-Seal, O-Ring, MEC metal end-cap seal, lockdown screw packing, pack off slip seal, BX ring, C ring, and develop the HNBR, FKM, AFLAS and other compounds accordingly. The materials have high pressure resistance, good sealing characteristics and passed H<sub>2</sub>S immersion test and API 6A NORSOK M710 RGD/AED test.

## BOP Seal

In the BOP, JST can provide with inner / outer BOP seals, top seal, ram seal and other customized products. We develop the HNBR, FKM compounds, which have high pressure resistance, good sealing characteristics and passed H<sub>2</sub>S immersion test and API 6A NORSOK M710 RGD/AED test.





## Well Service Equipment Seal

JST manufactures well service fracturing pump and plunger pump packings in a wide variety of materials to suit specific well conditions and operating parameters, they are available in a wide range of elastomeric materials and high performance resins, including NBR, HNBR, FKM, filled PTFE, fabric reinforced rubber.

In addition, Valve inserted seal which is made of modified polyurethane material of excellent extrusion resistance, puncture resistance and fatigue resistance, which guarantees the fracturing work under various working conditions.



## Hammer Union Seal



JST offers two lines of hammer union seals, one from elastomer, another one from elastomer reinforced with anti-extrusion ring which is normally used for high pressure.

The material mainly includes NBR, HNBR and Viton without/with brass or stainless steel anti-extrusion ring. It can fully meet the specific performance requirements of your demanding operating environment.

## Downhole Tool Seal

JST offers a wide range of molded elastomer (rubber) products for exploration, drilling, and well-service applications. Packer Element, Bonded Seal, PEEK/PTFE back up ring, RGD O Ring, Liner Wiper Plug, Pump down Plug, Seal Stack, Metal End Cap Seal, S Seal are the common used seals for downhole tools.





## API 6D Ball Valve and LNG Seal



Sealing for API 6D ball valve and LNG at cryogenic temperatures has its own unique set of challenges. JST has a wide range of solutions for cryogenic sealing applications. The range includes valve stem seals and valve seat seals. Compounds and designs could vary as per specific applications.

The material mainly includes polymer jacket (virgin PTFE, filled PTFE, TFM, PCTFE, UHMW-PE, PEEK, etc.) and SS/Elgiloy/Inconel helical spring, canted level spring, canted coil spring.

Material compounds have passed API 6A FF/HH Immersion Testing and NACE approved energizers available for oil and gas application.





## Hydraulic Seal



JST has 28 years experience in the hydraulic seal designing and application. Hydraulic seals can be dynamic or static. The range includes piston seals, rod seals, wiper seals, as well as wear rings, back up rings and v packings.



They are widely used in construction machinery, injection machines, die-casting machine, vulcanizing machine and other industries.





## Oil-free Lubricated Pump Seal

In oil-free compressor, JST has developed the wear-resistant / high-temperature resistant materials as well as healthy materials, which have been certified by FDA and NSF.



## High Pressure Water Pump Seal



JST has developed particular fabric reinforced NBR and polymer materials playing good sealing role in water effectively preventing the damage caused by water leakage and the pump failure caused by overheating of the plunger friction.

The sealing system can ensure the normal operation of the high-pressure washer even under the conditions of large pressure change, high temperature and low lubrication.

## FFKM Seal/O-Ring

### ◆ Industrial grade FFKM seal

FFKM has excellent chemical corrosion resistance and high temperature resistance characteristics, which makes FFKM widely used in various harsh working conditions for chemical applications.

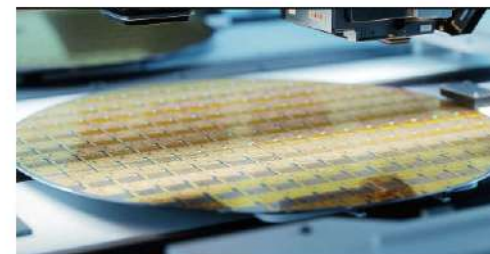


### ◆ Semiconductor grade FFKM seal



JST semiconductor-grade FFKM compounds are with high purity (low amount of extractables) and very good oxygen and CF<sub>4</sub> plasma resistance, which have the third-party testing reports.

The excellent FFKM has high resistance to plasma, heat and corrosive chemicals.





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