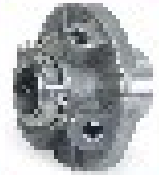




MECHANICAL SHAFT SEALS & COMPONENTS



○ PETRO-CHEMICALS

○ PHARMACEUTICALS

○ CHEMICALS

○ FERTILIZERS

○ REFINERIES

○ TEXTILES





Mumbai Office & Factory

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Jogeshwari (W), Mumbai - 400 102.
Tel. : 2678 8205 Tele Fax. : 022-2678 8205
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Surat Office

Flat No. 102, Aman Society,
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Cell : 09328134005 / 09898063005

Email : mak-tech@hotmail.com

DOUBLE AGITATOR SEAL



Pressure : Upto 35 bar
Temperature : -90° to 300°C
Speed : 5 to 1450 RPM.

The Type MT-31 seals are designed for Agitators / Mixers / Reactors / Auto Clave used in process industry can be given from size 15mm to 300mm in top entry / side entry / bottom entry installation

Service : Chemical, Pharmaceutical, Bulk Drugs & Polymer Industry.

Face Material : Tungsten Carbide, Carbon, Ceramic, Silicon Carbide, Special Coat.

Metal Components : S.S. 304 / S.S. 316 / Hastelloy 'C'.

Secondary Seal : PTFE, Viton, Silicon, EPDM, Grafol.

SINGLE DRY SEAL



Pressure : 7 bar
Temperature : -40° to 100°C
Speed : 1 to 200 Max.

The Type MT-32 C seals are designed to avoid the contaminations of product in case of seal failure to save costly batches. Excellent wear & tear capability of seal faces.

Service : Chemical, Pharmaceutical, Bulk Drugs & Polymer Industry.

Face Material : Tungsten Carbide, Carbon, Silicon Carbide, Ceramic, Special Coat.

Metal Component : S.S. 304 / S.S. 316, Hastelloy 'C', Alloy 20 Monel etc.

Secondary Seal : Viton, PTFE, Nitrile, Neoprene.

THERMO SYPHON SYSTEM.



Pressure : 50 bar

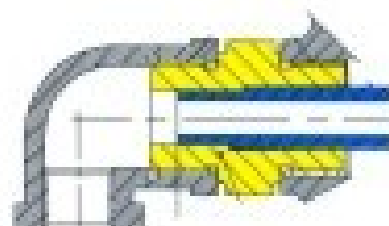
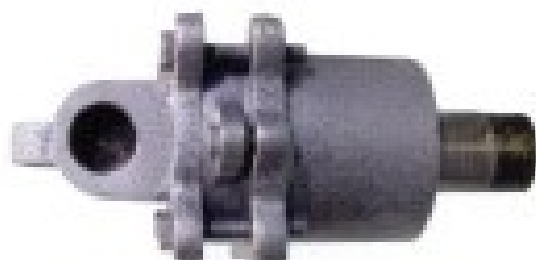
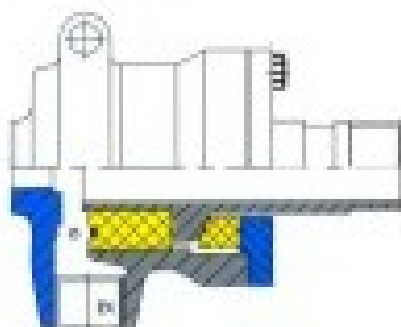
Thermo Siphon System is designed to dissipate the heat from double seal. It is basically used to provide barrier fluid to double seal for lubrication & to keep the seal in contact.

Hand pump will be supplied on request.

Service : Chemical, Pharmaceutical, Bulk Drugs & Polymer Industry.

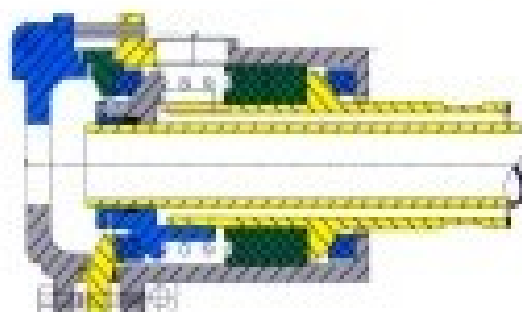
Metal Components : M.S. / S.S. 304 / S.S. 316.

ROTARY JOINT



Body	C.I./M.S./SS./BRASS
Assembly Flange	C.I./M.S./S.S./BRASS
Nipple	M.S./S.S. HARDENED
Seal Ring	Carbon Graphite (IMP)
Guide Ring	Carbon Graphite (IMP)
Spring	S.S./Spring Steel
Gasket	Compressed Asbestos

MAX. WATER PRESSURE	15 bar
MAX. WATER TEMPERATURE	150°C
MAX. STEAM PRESSURE	10 bar
MAX. STEAM TEMPERATURE	180°C
MAX. HOT OIL PRESSURE	8 bar
MAX. HOT OIL TEMPERATURE	180°C



MATERIAL SPECIFICATION

Body	C.I./S.S./BRASS
Nipple	EN8/EN24/M.S./S.S. Hardened
Assembly Flange	C.I./S.S./BRASS
Cover Plate	C.I./S.S./BRASS
Seal Ring	Carbon Graphite
Guide Ring	Carbon Graphite
Spring	S.S./Spring Steel
Thrust collar	EN8/EN24/M.S./S.S. Hardened
Gasket	Compressed Asbestos

OPR. PARAMETERS

MAX. WATER PRESSURE	20 bar
MAX. WATER TEMPERATURE	200°C
MAX. STEAM PRESSURE	20 bar
MAX. STEAM TEMPERATURE	200°C
MAX. HOT OIL PRESSURE	20 bar
MAX. HOT OIL TEMPERATURE	200°C

MATERIAL SPECIFICATION

Journal Flange	C.I./M.S./S.S.
Quick Release Flange	C.I./M.S./S.S.
Split Ring	C.I./M.S./S.S.
Nipple (Q.R.C.)	EN8/EN24/S.S.
Gasket	Asbestos/Copper

FEATURES

- The BM70/ROF40 Series Rotary Joint, combine short, trouble free service with easy to maintenance.
- The anti-torque lag prevent's rotation of housing while in operation.
- The special carbon graphite bearing is lubricated by the process fluid and no addition lubrication required.
- The extra long sphyon pipe support removes the load from the sphyon pipe thread/packing.
- So the pipe's last longer. This series is field repairable

NOTE : WHEN ORDERING PLEASE SPECIFY : SIZE, TYPE & SYNCHON SIZE OF ROTARY JOINT
WHEN ORDERING PLEASE SPECIFY : NIPPLE THREAD (BSF/INPT) (R.H./L.H.)
(ABOVE - 2-1/2" FLANGE ENDS - REQUIRED FLANGE DETAILS.

TEFLON BELLOWS SEALS

The Type MT-81 seal are designed for extremely Corrosive chemicals including concentrated acids, salts, strong oxidizing & reducing agents & chemically active organic.

Service : Chemical, Petro-Chemical, Pharmaceutical, Bulk Drugs.

Face Material : GFT, Ceramic, Silicon Carbide, Carbon

Metal Components : S.S. 316 / Hastelloy 'C', Alloy - 20

Secondary Seal : Teflon



Pressure : 5 bar
Temperature : -20° to 180°C
Speed : 4000 RPM.

METAL BELLOW SEALS

The Type MT-84 seals are specially designed for heat transfer fluid application. Thermic fluid is very common application, this seal performed better in cryogenic application also.

Service : Chemical, Petro-Chemical, Pharmaceutical, Bulk Dryer

Face Material : Carbon, Silicon Carbide, Tungsten Carbide

Metal Components : AM. 350 / Hastelloy 'C'.

Secondary Seal : Grafoil, Viton, Teflon etc.



Pressure : 10 bar
Temperature : -75° to 350°C
Speed : 4500 RPM.

RUBBER BELLOW SEALS

The Type MT-82 seal has been designed for the most commonly used application like oil & water. Its indigenous design incorporates several functions. Highly consumable seal.

Service : Water & Oil for pumps & Compressor

Face Material : Carbon, Silicon Carbide, Ceramic Tungsten Carbide.

Metal Component : S.S. 304 / S.S. 316.

Bellow Material : EPDM, Nitrile, Neoprene, Viton



Pressure : 15 bar
Temperature : -20° to 200°C
Speed : 3000 RPM.

WAVE SPRING SEAL.

The Type MT-J1 are single wave spring seals suitable for most general application these seal can also be used in dirty application as springs clogging does not takes place.

Service : Paper & Pulp Industries,
Sugar, Waste Water &
Dairy.

Face Material : Ceramic, Carbon, Tungsten Carbide,
Silicon Carbide, Special Coat.

Metal Components : S.S. 304 / S.S. 316.

Secondary Seal : Silicon, Viton, Nitrile,
Neoprene, PTFE.



Pressure : 10 bar
Temperature : -30° to 220°C
Speed : 4000 RPM.

SPARKLER FILTER PUMP SEALS

The Type MT-83 seals are used in all Hygienic Dairy & Pharmaceutical Industry. Specially designed for sparkler filter machines in the filter press.

Service : Pharmaceutical, Dairy &
Beverages Industries

Face Material : Tungsten Carbide, Carbon,
Silicon Carbide.

Metal Components : S.S. 316.

Secondary Seal : Viton / PTFE.



Pressure : 10 bar
Temperature : -50° to 220°C
Speed : 4500 RPM.

CARTRIDGE SEAL

The Type MT-J2 seal has been designed fully pre-assembled unit for use in the conventional stuffing boxes of Circulating pumps. Seal suitable for easy and reliable mounting with no setting or alignment care, can be installed by unskilled person.

Service : Pharmaceutical, Fertilizer,
Petroleum, Refineries, Solvents.

Face Material : Tungsten Carbide, Silicon Carbide,
Ceramic, Carbon.

Metal Component : S.S. 316, Hastelloy 'C',
Alloy 20, Monel etc.

Secondary Seal : Viton, PTFE, EPDM, Neoprene.



Pressure : 10 bar
Temperature : -25° to 220°C
Speed : 4500 RPM.

SINGLE SPRING UNBALANCED SEAL

The Type MT-81 are single coil spring unbalanced seals developed for dirty media & mild slurry.

Service : Oil Refinery, Petroleum,
Petrochemical, Pharmaceutical,
Solvents, Paper & Pulp Industries.

Face Material : Tungsten Carbide, Carbon, Silicon
Carbide, Ceramic, Special Cast.

Metal Component : S.S. 304 / S.S. 316.

Secondary Seal : Viton, PTFE, Nitrile,
Neoprene, Silicon.



Pressure : 10 bar
Temperature : -20° to +220°C
Speed : 4500 RPM.

SINGLE SPRING BALANCED SEAL

The Type MT-81 B seal has been designed for dirty media and mild slurry applications. All components are held together by a snap ring which helps in easier installation and removal.

Service : Petrochemicals, Petroleum,
Refinery, Distilleries & Pharmaceuticals.

Face Material : Tungsten Carbide, Carbon,
Silicon Carbide, Ceramic, Special Cast.

Metal Component : S.S. 304 / S.S. 316.

Secondary Seal : Viton, PTFE, Nitrile,
Neoprene.



Pressure : 25 bar
Temperature : -40° to 220°C
Speed : 4500 RPM.

CONICAL SPRING UNBALANCED SEAL

The Type MT-82 U is a single Conical helical spring unbalanced seal with 'O' Ring as secondary element can be afford for wide services.

Service : Water, Chemical Process,
Dairy & Pharmaceuticals.

Face Material : Tungsten Carbide, Carbon,
Ceramic, Silicon Carbide, Special Cast.

Metal Components : S.S. 304 / S.S. 316.

Secondary Seal : Viton, Silicon
PTFE, Neoprene



Pressure : 10 bar
Temperature : -20° to 220°C
Speed : 4000 RPM.

COMPANY PROFILE

We, at MAK-TECH SEALS, please to inform you that, we had ventured into manufacturing of Mech. Seal, way back in 1988 realizing the quality needs of Engineering / Chemical / Pharmaceutical / Steel / Power Plant / Petrochemical & all types of process Industry. As these industries strive to source, quality mechanical seals & spares for higher level application, at competitive rate. And we are here to accomplish the requirement of these industries.

We, are manufacturer of wide range & different sizes of mechanical seals & spares, using basic to exotic raw materials to suit customers requirements.

Quality is essential to the success of any business. Success demands top quality practices and strict discipline on the part of the company. As such we have established a very comprehensive and scientific system of quality control, where strict vigil is maintained at every stage of production. Quality check involves the following pre-requisites.

- ❖ Online & after manufacturing regular inspection of components.
- ❖ Checking the flatness of seal faces at acceptable flatness limit.
- ❖ Thoroughly checking the dimensions of the manufactured product to the closest tolerances and if required rectifying the components to achieve the optimum results.

Our aggressive management team is committed to provide the higher standard of quality and fine services to our customers. Let us assure you that we stand ready, willing and able to provide those services needed to become your leading vendor. We invite you to share our knowledge and technology. We shall be both technologically acceptable and commercially competitive.

MULTI SPRING SEAL

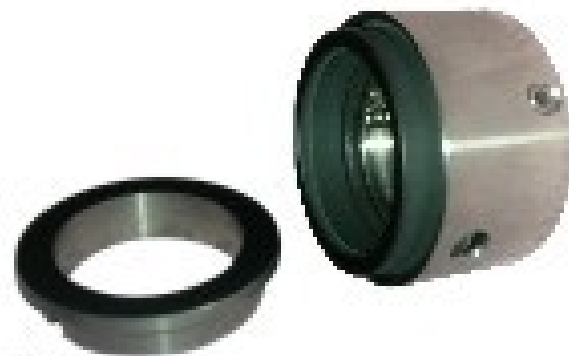
The Type MT-31U seal has been designed & developed for universal application its compact design permits the uses in the standard stuffing boxes on centrifugal pumps.

Service : Chemical Oil Refinery, Petroleum, Petrochemical, Pharmaceutical.

Face Material : Tungsten Carbide, Carbon, Silicon Carbide, Ceramic.

Metal Component : S.S. 304 / S.S. 316 / Hastelloy C⁺, Alloy-20
Any other material as per the requirement.

Secondary Seal : Viton, PTFE, Nitrile, Neoprene, Silicon.



Pressure : 10 bar
Temperature : -20° to +220°C
Speed : 4500 RPM.

MULTI SPRING BALANCE SEAL

The Type MT-31B seals are designed for high pressure application used in the industry Excellent design for hot water application.

Service : Chemical Oil Refinery, Petroleum, Petrochemical, Pharmaceutical.

Face Material : Tungsten Carbide, Carbon, Silicon Carbide, Ceramic.

Metal Component : S.S. 304 / S.S. 316 / Hastelloy C⁺, Alloy-20
Any other material as per the requirement.

Secondary Seal : Viton, PTFE, Nitrile, Neoprene, Silicon.



Pressure : 25 bar
Temperature : 60°C to 220° C
Speed : 4500 RPM.