

**MARKO**  
STEAMJET PVT. LTD.

Design & Manufacturing  
**ALL TYPE OF  
ROTARY JOINT**

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





## ABOUT US

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Marko steam jet is a leading and recognized name in the Rotary joint, valves and pumps industry, striving to manufacture quality engineered products to the related industries and boom the manufacturing numbers in India. The Prominence that the company has achieved since its establishment is its unwavering commitment to quality. With pioneering 18 years of customer trust and satisfaction, we not only create value for stakeholders, but also benefit them with our innovations and services.

At Marko Steam jet, we understand that servicing of any engineered instrument is important for better efficiency and life-span. Thus, we provide our customers with the facility of rebuilding or repairing equipments. All rebuild joints at our company are factory tested and will be delivered and installed with full confidence to strike and achieve optimum customer satisfaction.



**17+**  
**Years**  
**Experience**



**500+**  
**Satisfied**  
**Clients**



**7+**  
**Country**  
**Presence**





S T E A M

# STATIONARY TYPE ROTARY JOINT

## BEARING HOUSING MOUNTED ROTARY JOINT

HS-1

SIZE : 2" TO 4"

PRESSURE : 0.5 TO 12 Barg

TEMPERATURE : 100° to 300°C

SPEED : Up to 1500 MPM (300 RPM)

This type of rotary joint is used for basically high-speed machines as it has very few rotating contact parts. There is only one seal ring conclave shape installed in this rotary joint. This ring is specially designed for this rotary joint so that it won't be easily worn. Extremely little upkeep, even at very high speeds. There is no possibility of the rotary joint being leaked as it is supported by a bracket with a bearing housing. This is a stable rotational joint, so hose pipes won't break easily under the high speed of the cylinders.



## SBRJ

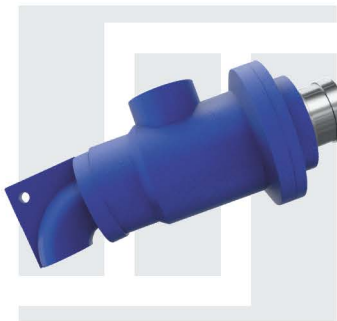
SIZE : 1" to 4"

PRESSURE : 0.5 to 12 Barg

TEMPERATURE : 100° to 300°C

SPEED : Up to 500 MPM (150 RPM)

This is a newly designed rotary joint specially designed for low maintenance and easy installation. This is a self-supported rotary joint, as on the nipple side there is a bush for the body support





# STEAM

## STATIONARY TYPE ROTARY JOINT

### BRSS

SIZE : 2" TO 4"

PRESSURE : 0.5 TO 7 barg

TEMPERATURE : 100°to300°C

SPEED : up to 500 MPM (150 RPM)

This is a body-rotating stationary syphon rotary joint. In this type of rotary joint, neither split nor R.h or L.h. are required. Therefore, it's very easy to install. It's a balanced rotary joint as the body is rotating with the cylinder.



### Ls-1

SIZE : 1.5" to 4"

PRESSURE : 0.5 to 5 Barg

TEMPERATURE : 100°to300°C

SPEED : up to 500 MPM (100 RPM)

The rotary joint is an advanced version of the SBP-type rotary joint. The thickness of the rotary joint parts is heavier compared with SBP-type rotary joint. It's very easy to dismantle the rotary joint when seal changes are required.

### SBP OR SBP-LS-1 TYPE

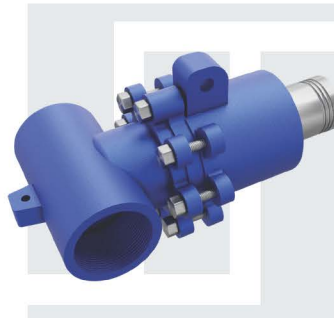
SIZE : 1/2" to 4"

PRESSURE : 0.5 to 5 Barg

TEMPERATURE : 100°to300°C

SPEED : Up to 150 MPM (30 RPM)

This is an outdated-designed rotary joint, mostly intended for low speeds. The cost of maintenance is relatively minimal. It can be available with a split design or an rh-lh design.





STEAM

SINGLE-FLOW

## STATIONARY TYPE ROTARY JOINT

### SA TYPE

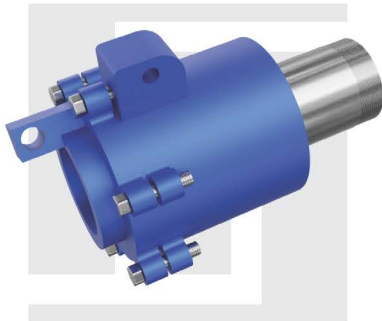
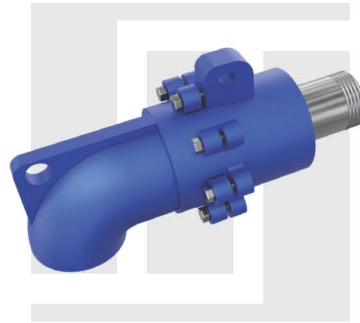
SIZE : 1/4" to 4"

PRESSURE : 0.5 to 5 Barg

TEMPERATURE : 100° to 300°C

SPEED : Up to 300 MPM (100 RPM)

This type of rotary joint is needed when, from one side, steam is entered into the cylinder and, from another side, condensate comes out.



### SC TYPE

SIZE : 3/4" to 4"

PRESSURE : 0.5 to 5 Barg

TEMPERATURE : 100° to 300°C

SPEED : Up to 300 MPM (100 RPM)

This type of rotary joint is needed when, from one side, steam is entered into the cylinder and, from another side, condensate comes out.



S T E A M

INTERNAL-ASSEMBLY

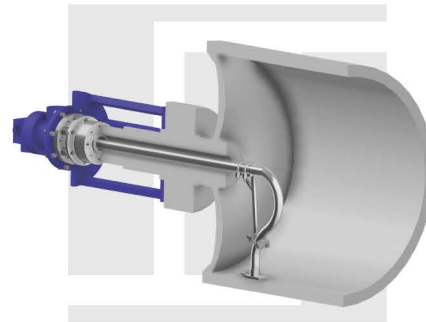
## STATIONARY TYPE ROTARY JOINT

### CANTILEVER SYPHON

SPEED : speed up to 1500 MPM

After there has been heat transfer and the formation of condensate, syphons remove liquid from drying systems. To maximise drying rate and reduce cross-machine temperature differences in dryers, careful syphon selection is required. The use of stationary syphons, which remain in a constant position and are employed in higher- or lower speed applications where condensate is in a rimming or non-rimming position.

In this type of syphon system, there is no rotation part in the cylinder. Only internal bracket support is necessary. The syphon pipe design is very heavy so that it won't be broken down when the cylinder is rotating at very high rpm. We will provide the syphon band in ss 304 or ss 316.





S T E A M

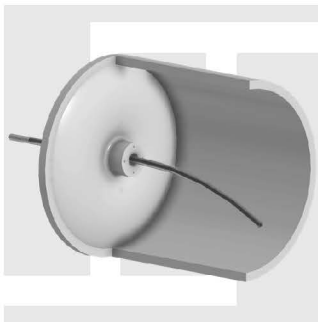
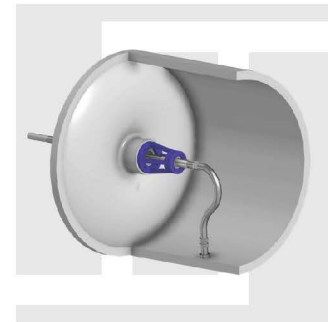
INTERNAL-ASSEMBLY

# STATIONARY TYPE ROTARY JOINT

LS-1, SBP-LS-1, SBRJ & BRSS

SPEED : Up to 500 MPM

In this type of syphoning system, an internal support system is required. So that we can use this design only up to a certain speed. Because of this type of support, the load on the rotary joint (rotator cuff) has been distributed.



ROTOCURVE SYPHON

SPEED : Up to 100 MPM

This type of synchronous design is used for low-speed machines. When manhole is very small and no one can enter the cylinder. At that time, this type of syphon system has been used.





S T E A M

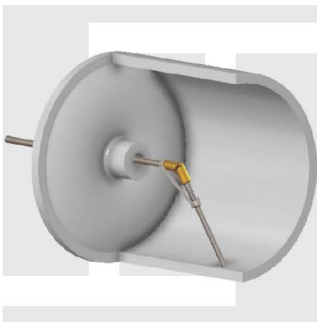
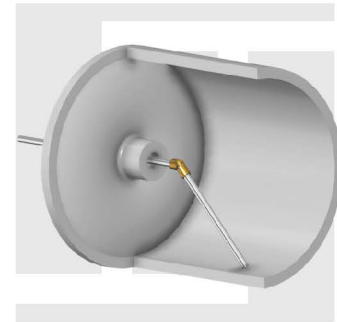
INTERNAL-ASSEMBLY

# STATIONARY TYPE ROTARY JOINT

## 45' DEGREE ELBOW SYPHON

SPEED : Up to 150 MPM

This type of synchronous design is used for low-speed machines. When the manhole is very small, anyone can fit the syphon elbow into that hole. It's a very old and basic syphon design. The elbow is made of gun metal or SS 304 as per requirement.



## 45' DEGREE SPRING LOADED SYPHON

SPEED : Up to 200 MPM

This type of synchronous design is used for low-speed machines. When the manhole is very small, anyone can fit the syphon elbow into that hole. It's a very old and basic syphon design. The elbow is made of gun metal or SS 304 as per requirement. In this type of design, the spring is fitted with a syphon elbow so that the load is carried by the spring.







S T E A M

# ROTATING TYPE ROTARY JOINT

LNAR TYPE ROTARY JOINT IS MOSTLY INTENDED FOR MACHINES  
WITH HIGH SPEEDS.

Alignment is most necessary when we want to install this type of rotary joint.  
As there is no guide in this type of rotary joint, the friction and wear are less  
compared with another rotating type of rotary joint.

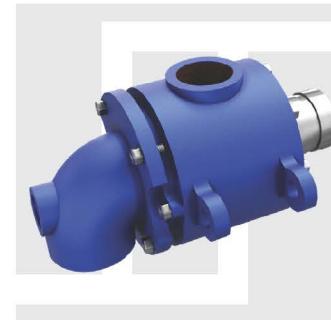
## LNAR TYPE ROTATING ROTARY JOINT ( High Speed)

SIZE : 1/2" to 7 1/2 "

PRESSURE : 0.5 TO 12 Barg

TEMPERATURE : 100° to 300°C

SPEED : Up to 700 MPM (Up to 200 RPM)





S T E A M

# ROTATING TYPE ROTARY JOINT

SN TYPE ROTARY JOINT IS INTENDED MOSTLY FOR MACHINES  
WITH LOW SPEEDS.

Alignment is not necessary when we want to install the rotary joint. As there is a guide to support the rotary joint, the friction and wear are slightly higher compared with another rotating type of rotary joint. But that we can eliminate if we change the material of construction of the seals.

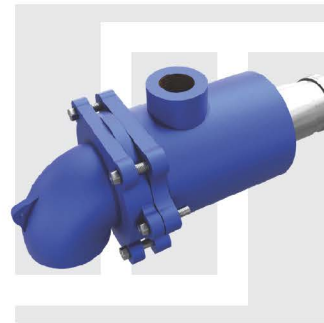
## SN TYPE ROTATING ROTARY JOINT (LOW SPEED)

SIZE : 3/4" to 5"

PRESSURE : 0.5 TO 12 Barg

TEMPERATURE : 100° to 300°C

SPEED : Up to 200 MPM (Up to 50 RPM)



SIZE : 3 1/2" to 5"

PRESSURE : 0.5 to 12 Barg

TEMPERATURE : 100° to 300°C

SPEED : Up to 200 MPM (Up to 50 RPM)





STEAM

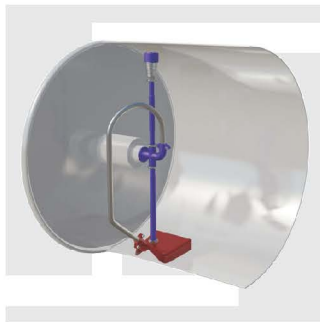
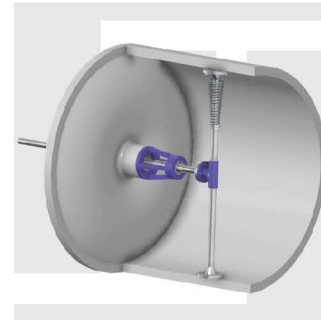
INTERNAL-ASSEMBLY

# ROTATING TYPE ROTARY JOINT

## SPRING LOADED SYPHON

SPEED : Up to 700 MPM

Under 700 mpm, conventional rotary syphons are employed in rimming applications. A stainless steel (an aluminium steel) pickup foot is soldered to the vertical condensate pipe, and a heavy-duty spring holds the rotating syphon firmly against the cylinder shell. The dryer's rimming condensate is minimised by the close clearance design.



## ROTARY SCOOP SYPHON

SPEED : Up to 500 MPM

The Rotary Scoop syphon is designed for non-rimming cylinders. The scoop syphon operates by accumulating condensate during its rotation of the cylinders.. As rotation continues, the scoop lifts the condensate to the center pipe and discharges it out of the dryer, through the horizontal pipe.





S T E A M

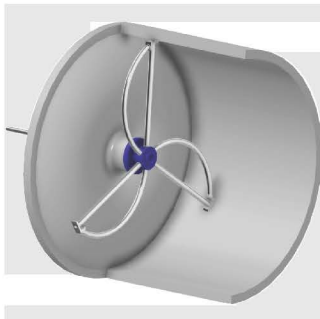
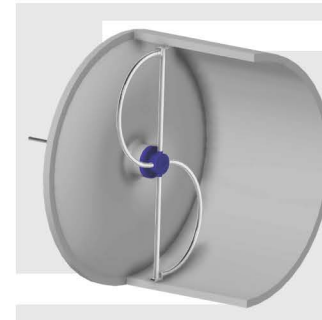
INTERNAL-ASSEMBLY

# ROTATING TYPE ROTARY JOINT

## DOUBLE SCOOP SYPHON

SPEED : Up to 200 MPM

Rotary double-scoop syphons revolve with the cylinder and are used in low-speed applications where condensate pools with rotation.



## TRIPPLE SCOOP SYPHON

SPEED : Up to 200 MPM

A triple-scoop syphon is required for very big diameter cylinders, or MG, as the condensate is larger in a bigger cylinder. We can offer the very studded design of three scoops.





**HOT & COLD  
WATER**

# ROTARY JOINT

These types of rotary joints are used for hot and cold water. They have five basic components: housing, shaft, bearing, seals and spring.

## SINGLE FLOW

SIZE : 1/4" TO 5"

PRESSURE : Up to 30 Kg/cm<sup>2</sup>

TEMPERATURE : Up to 100°C

SPEED : Up to 2000 MPM (1000 RPM)

MEDIA : Hot & Cold Water



## DUAL FLOW

SIZE : 1/4" TO 5"

PRESSURE : Up to 30 kg/cm<sup>2</sup>

TEMPERATURE : Up to 100°C

SPEED : Up to 2000 MPM (1000 RPM)

MEDIA : Hot & Cold Water





**HOT & COLD  
WATER**

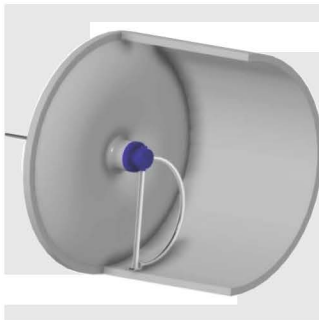
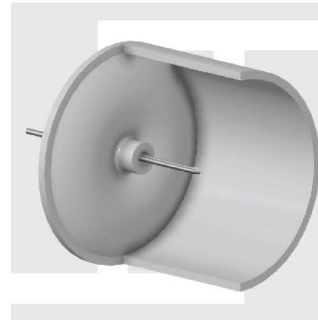
**INTERNAL-ASSEMBLY**

# ROTATING TYPE ROTARY JOINT

## STATIONARY SYPHON

**SPEED : Up to 500 MPM**

Stationary syphon Hot or cold water comes out of the cylinder when the cylinder has half of the water.



## ROTATING SYPHON

**SPEED : Up to 1500 MPM**

In a rotating syphon, hot or cold water comes out of the band when the cylinder rotates.



These types of rotary joints are used for hot thermic fluid. They have five basic components: housing, shaft, bush, seals & spring.

## SINGLE FLOW

SIZE : 1/4" TO 5"

PRESSURE : Up to 30 kg/cm<sup>2</sup>

TEMPERATURE : Up to 300° C

SPEED : Up to 50 RPM

MEDIA : Hot / Thermic Fluid

These types of rotary joints are used for hot oil or thermal fluid. They have five basic components: the housing, shaft, bush, seals and spring. Bush Material is basically metal impregnated carbon or resin impregnated carbon which is given necessary wearing resistance against Hot/Thermic Fluid





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Plot No. 25, 26/9, Phase-1,  
Nilsin Ind. Compound,  
Nr. Amco Bank, G.I.D.C., Vatva,  
Ahmedabad-382445, Gujarat, India

**REGIONAL BRANCH OFFICE**

No. 42, Fair Lands-Perya Pudur Road,  
ATC Nagar, Salem-636016, Tamilnadu, India  
Call : +91-9840310230  
E-mail : markopapsouth@gmail.com

**PHONE**

+91 98259 25752  
+91 72270 19010

**EMAIL**

info@markosteamjet.com | vishal@markosteamjet.com

**WEBSITE**

www.markosteamjet.com

**EGYPT**

4, Melsa Bulding, Nasr City  
Cairo, Egypt.

**BANGLADESH**

House-1300, Road-17,  
Avenue-02, MirpurDoHS,  
Dhaka-1216  
E-mail : bdsales@markosteamjet.com

