Pearl Joint OCOUP COUP COUP COUP

GENERAL CATALOG

PEARL^{SGK}JOINT 株式会社昭和技研工業 SHOWA GIKEN INDUSTRIAL CO., LTD.

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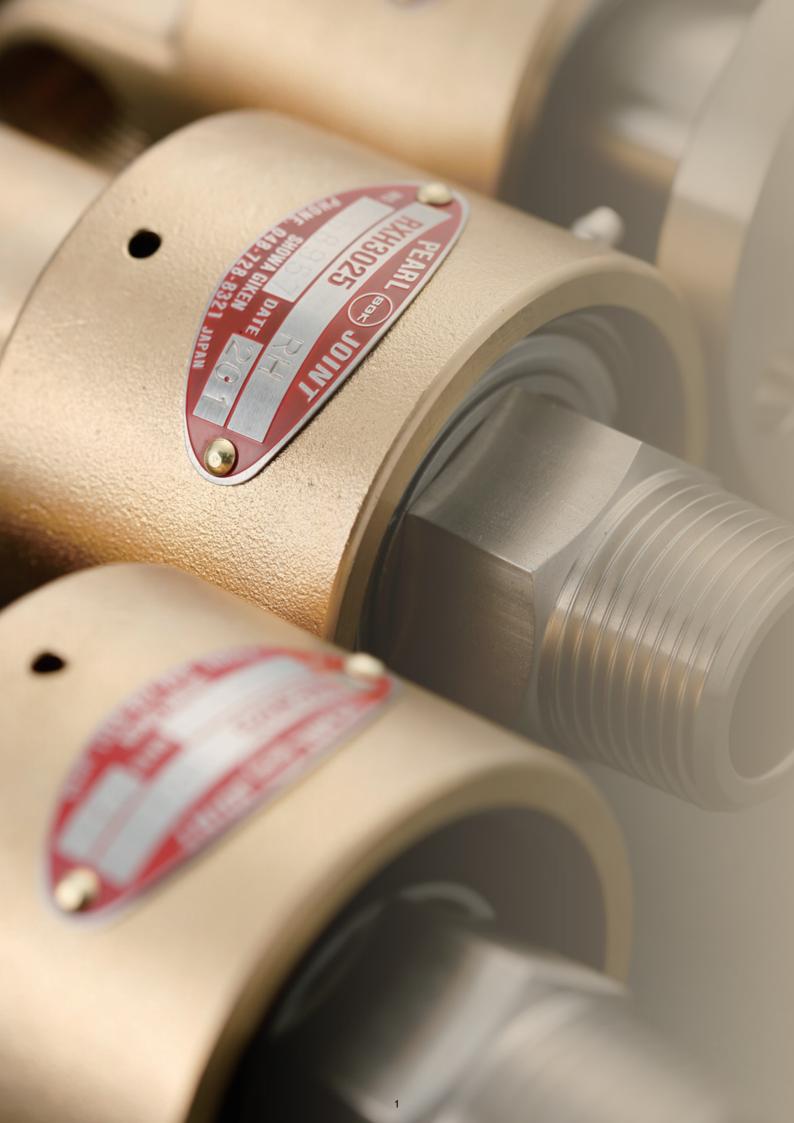
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Pearl Joint Botary Joint Swivel Joint

Rotary Joint

In various fields of industry, "pearl" (SGK's brand name) rotary joints have been successfully used under variety of service conditions covering a wide range of materials, pressures, temperatures and rotation speeds.

Pearl Rotary Joints are used for supplying/discharging compressed or decompressed (below atmospheric pressure) fluid/gas from a fixed piping to the rotary section of various machines with no leak. For example, they can be used when a heat transfer medium such as <steam>, <hot water>, or <heated oil>, or a coolant such as <water>, <brine>, <ammonia>, or <Freon> for cooling is supplied to rotating [roll], [drum], or [cylinder], and when <compressed air> or <operating oil> is supplied to rotary machines such as [clutch] and [chuck] that are operated by fluid/gas. These rotary joints have been developed based on the most recent and advanced mechanical seal theory, and are extremely effective and economical. They are manufactured under strict quality control, and are compatible to one another with no deviation in the product. Furthermore, with rich line-up of models, they can satisfy various purposes.

Swivel Joint

In various fields of industry, "pearl"(SGK's brand name) swivel joints have been successfully used under variety of service conditions covering a wide range of materials, pressures, temperatures and swivel moments.

Pearl Swivel Joints are used when compressed or decompressed (below atmospheric pressure) fluid/ gas is transported and the piping needs to be rotated or moved in optional direction of up/down, left/ right, or forward/backward. Movable piping can be made easily, safely and at a low cost, and piping can be secured. These Swivel Joints can be rotated 360 degrees. They have large mechanical strength that endures large radial/thrust load and moment load due to double-row ball bearings and grease lubrication. Since a ring-type packing such as O-ring is used in the sealing section, the structure remains simple while providing stable sealing that does not leak any pressurized fluid contained.PK series, for high temperature application is incorporated with lubrication-free bearings section, and the sealing section adopts PTFE material and the mechanical seal to provide stable sealing.

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The contents are subject to change without notice.

Rotary Joints, List

			Size	Max.			
Series	Line	Fluid	(Style)		Rotation Speed (min ⁻¹)	Temperature (°C)	
RX			8A~25A	2.25	3,500		
	RXE	Water / Oil	32A, 40A	1.67	2,000	100	
			50A~80A	1.18	750		
and a			10A~25A	2.25	3,500		
	RXH	Water / Thermal Oil	32A, 40A	1.67	2,000	150	
ac in			50A~80A	1.18	750		
0.00	RXK	Water / Oil	90A, 100A	0.98	500	100	
КС	Air / Gas / Water / Oil	Air / Gas /	6A~25A	0.98	1,500	100	
		Water / Oil	32A~65A		1,000		
AC	_	Saturated Steam / Thermal Oil /	10A~40A	1.47	300	180	
		Water / Oil / Air	50A~80A		150		
NC		Saturated Steam /	15A~40A	1.47	300	180	
A	Thermal Oil 50A~80A	1.47	100				
NX	NXE	Saturated Steam	32A~65A	1.5	150	200	
	NXH	Thermal Oil	32A~65A	1.0	150	280	
SXO	Cutting Oil / Water / Oil		(90°)		5.9 10,000	120	
			(Straight)	6.9			
			(Compact)	10.3	15,000	120	

* For dimensions, masses, options, precautions on selection, or order methods for respective series, see catalogs for the respective series available on our website.

Rotary Joints, Applications

Industries	Equipments, Facilities
Film, Rubber & Plastics	Calender roll / Mixing roll / Kneader / Banbury mixer / Plastic extruder / Casting roll / Film machine / Laminator / Film cooling and take-up roll
Chemicals & Pharmaceuticals	Conical dryer / Tube dryer / Ball mill / Vacuum dryer
Food & Sugar Production	Double drum dryer / Blender / Rotary kiln
Steelmaking & Metal	Steel converter-trunnion main unit cooling / Successive casting facility / For furnace cooling / Continuous plating / Reeler / Mud gun / Ladle turret
Printing	Offset press / Sheet offset press / Form printing press / Photogravure press / Dry laminator
Paper & Pulp	Paper dryer / Super calender / Coater / Yankee dryer / Corrugate machine / Cellophane machine / Laminating machine
Textile & Dyeing	Dyeing and drying cylinder / Roll printing machine / Sizings
Electronic & Semiconductor	Grinder / Wrapping machine / Polishing machine
Environment-related Others	Machine tools / Drilling machine / Cleaning equipment / Vacuum equipment / Press for air clutch / Sludge dryer facility / Screw press / Shield machine / Hydraulic and pneumatic equipment

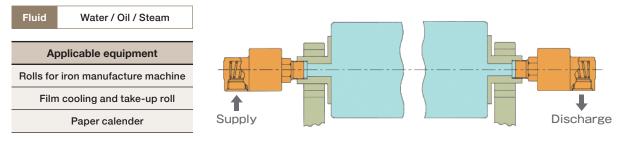




Rotary Joints, Intended use

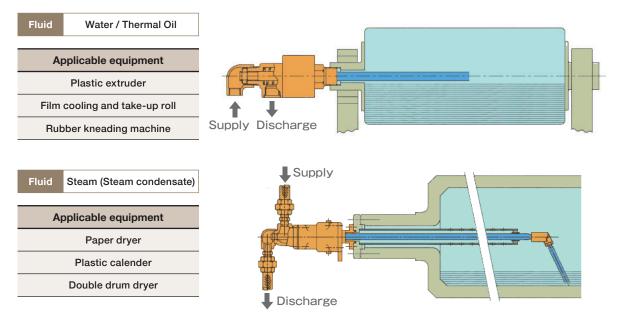
Simplex

Can be used in a situation where fluid is supplied from one side of a roll (drum or cylinder) and drained from the opposite side.



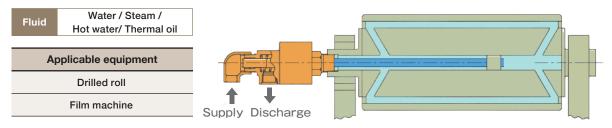
Duplex, Stationary IP

Can be used in a situation where fluid is supplied to and drained from a roll (drum or cylinder) while an internal pipe is stationary.



Duplex, Rotational IP

Can be used in a situation where fluid is supplied to and drained from a roll (drum or cylinder) while an internal pipe rotates.



Swivel Joints, List

	Matavial			Max.			
Series	Connection	Material (main parts)	Std Seal	Style	Size	Pressure (MPa)	Temperature (°C)
A	Taper Thread (Rc)	Ductile Cast Iron Carbon Steel	O-ring NBR	1~6	10A~100A	4.1	100
AS				1~6	10A~40A	4.1	
S STO	Taper Thread (Rc)	Stainless Steel	O-ring NBR	1~3	50A	4.1	100
				1.05	65A, 80A	2.1	
B	Taper Thread (Rc)	Carbon Steel	O-ring NBR	1~3	10A~40A	13.7	100
C	Flange	Carbon Steel	O-ring NBR	1~6	40A~300A	2.1	100
CS	Flange	Stainless Steel	O-ring NBR	1~6	40A~200A	2.1	100
SRK				2.2	10A~40A	34.3	
0	Taper Thread (Rc)	Carbon Steel	O-ring NBR	2,3	50A~65A	24.5	100
er er				2	80A	24.5	
SSH	Taper Thread (Rc)	Stainless Steel	O-ring NBR	2	10A~25A	20.6	100
PK	Taper Thread (Rc/R)	Ductile Cast Iron Bronze	PTFE	1~4	15A~50A	2.3	230

 \ast For dimensions, masses, options, precautions on selection, or order methods for respective series,

see catalogs for the respective series available on our website.

Swivel Joint

Swivel Joints, Applications

Pipes for a working medium such as oil, water, or air used for industrial machinery, hydraulic machinery, or machine tools, etc.

Pipes for a heat or cooling medium such as cold water, hot water, steam, thermal oil, or brine used for industrial machinery, etc.

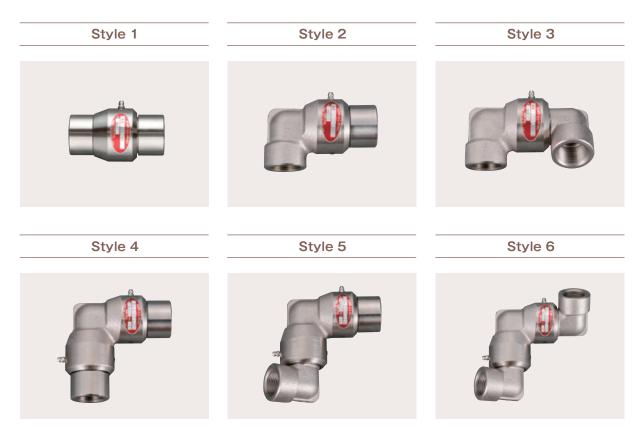
Fluid transfer piping for cargo-handling equipment used for petroleum products or LPG, etc.

Pipes for industrial wastewater treatment equipment

Pipes for air supply and exhaust of vacuum equipment

Swivel Joint, Styles

Depending on shapes, six styles are available for each series.



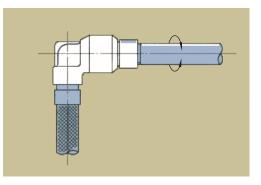
Note) Styles of the PK series are different from those of other series. For more information, see the PK series catalog available on our website.

Swivel Joints, Intended use

Used as a single unit (Style 1 or Style 2)

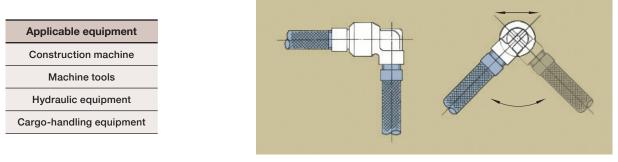
Used to transport fluid to a rotating body.

Applicable equipment	
Hose reel	
Rotary coil hooker	



Used as a single unit (Style 2)

Used for an oscillating pipe.

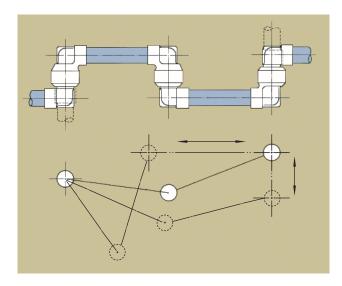


Used in a movable pipeline (Style 3-3-3 or Style 2-3-2)

A movable pipeline that uses three swivel joints allows fluid transport from a stationary pipe to machine equipment that moves on a plane. (figure shown below)

* If six swivel joints are used in a pipeline, it can be moved in all directions (three-dimensionally).

Applicable equipment	
Hot press	
Tire press	
Die-cast machine	
Injection molding machine	



Rotary Joint

Customized Products

We can produce customized products according to your requests. Contact us for more information.

Rotary Joint, Production Examples

Rotary joint

A rotary joint used in a situation where steam is supplied to a roll and steam condensate is collected through an internal pile.

Туре	ONC
Size	450A-300A
Fluid	Steam (Steam condensate)
Flow passage	2



Center joint for turn table

A rotary joint used in a situation where fluid supplied from a stationary pipe (one flow passage) is distributed through multiple ports to rolls.

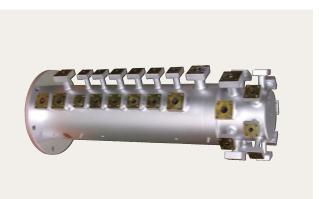
Туре	SR
Size	65A×1P 25A×1P
Fluid	Water / Oil
Flow passage	2

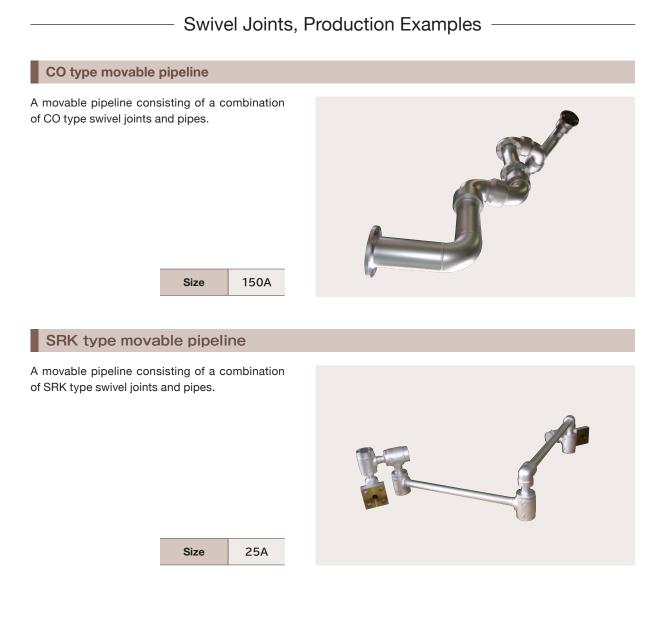


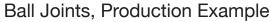
Multiple port rotary joint

A rotary joint that allows different fluids to flow separately through different ports to different rolls.

Туре	SR
Size	16P
Fluid	Hydraulic oil / Water / Air
Flow passage	16







Ball Joint

A ball joint is a joint that can be tilted in a desired direction, and is used for accommodating pipe torsion or changing the direction of the connected pipe.

We can provide a ball expansion joint that includes an extendable shaft.

Size 100A



Product Warranty

If a malfunction occurs during the warranty period, contact us or the distributor and send the product to us. Be sure to carefully pack the product for protection before sending it. After receiving the product, we will confirm the malfunction. If the malfunction was clearly caused by the materials of product components or the manufacturing method, we will repair the product in question or replace it with a new one free of charge.

Product Warranty Provision

1. Warranty Period

< New products >

One (1) year and six (6) months after shipment (from the manufacturing date) or one (1) year after installation, whichever comes first.

< Repaired products >

Six (6) months after shipment (from the manufacturing date).

2. We charge a fee for repairs in any of the following cases.

- ① Failure after the warranty period has expired
- 2 Failure caused by use of the product deviating from the service conditions
- ③ Failure caused by misuse (improper storage, installation, pipe laying, operation or maintenance, etc.)
- ④ Failure caused by fluid contaminants or foreign objects in the fluid
- (5) Failure caused by relocation, transport, or falling of the product after delivery
- (6) Failure caused by disassembly, repair, or modification done by personnel other than our service personnel
- (7) Failure of the product attributed to using materials or according to standards specified by the customer
- ⑧ Failure of the product attributed to using materials provided by the customer
- (9) Failure caused due to unavoidable acts of nature such as fires or other natural disasters

3. Scope of Responsibility

Our responsibility shall be limited to repairs, replacements, or transport expenses covered by this product warranty provision. Expenses or damages caused by said failures above shall not be covered.

4. Applicable Regions

This product warranty provision shall be applicable to products installed in Japan.

5. Another Agreement

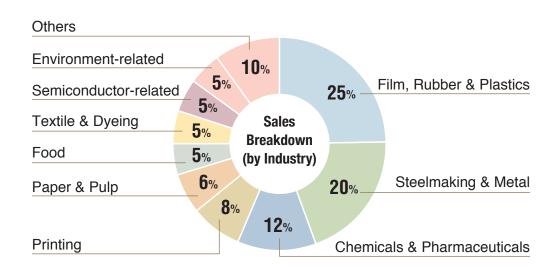
If another product warranty agreement is made separately with us and clearly states that said agreement shall have priority over this product warranty provision, this provision shall not be applicable.

6. This product warranty provision shall not restrict the customer's legal rights.

Company Profile



Company name:	SHOWA GIKEN INDUSTRIAL CO.,LTD.
Establishment :	1966
Paid in capita :	30,000k JPY
President :	Takashi Iwai
Employees :	103 people
Sales turnover :	2,185,092k JPY (FY2018)
Business operations	Design, manufacture, and sales of rotary and swivel joints
Headquarter :	7-24 Nishi-Kobari, Ina-Machi, Saitama, 362-0811 Japan
Sales office :	Tokyo Office, Osaka Office, Nagoya Office
Export Dept. :	2-64-11 Akabane, Kita-ku, Tokyo, 115-0045 Japan
(Tokyo Office)	Phone: +81-3-3598-1400
	E-mail sgk-tk@sgk-p.co.jp
URL :	http://www.sgk-p.co.jp



We have been providing Pearl Joints in a variety of fields since our founding in 1966.

Pearl Joint



Pearl Joint

МЕМО	

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URL http://www.sgk-p.co.jp



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