Metals Industry
Rotary unions for water cooling

Engineered reliability and effective cooling.

Increase productivity. Decrease maintenance downtime.
About Kadant Johnson
Since 1933, Kadant Johnson has specialized in the design and manufacture of rotary joints and precision unions and in the integration of these products with systems and services. Rotary unions are sealing devices used on rotating components to convey steam, water, air, coolant, and oil. In addition to rotary unions, Kadant Johnson also supplies auxiliary products, such as vacuum breakers, flexible metal hoses, sight flow indicators, steam and air separators, and pressure-powered pumps.
Bearing Cover Inserted

**Ratings**
- **Maximum Pressure:** 150 psig (10 bar)
- **Maximum Temperature:** 250°F (121°C)
- **Maximum Speed:** 25 RPM
- **Media:** Water

**Features**
- Mounts inside bearing cover
- External flexible hose eliminated
- Custom-designed and manufactured
- Available with Quad-Seal or mechanical seal
- High Cv flow values
- Can be rebuilt without removing bearing cover
- Up to 10 mm axial movement

**Benefits**
- Rotary union protected from break-outs
- Side loading eliminated
- Application flexibility
- Multiple campaign performance
- Continuous cooling, large flow areas
- Easy installation and repair
- Accommodates thermal growth of roll
Type CJE

features:
- Minimum number of moving parts
- Permanently lubricated
- Large bearing area

benefits:
- Simple design for easy operation
- Low maintenance requirements
- Provides shock and vibration resistance

Ratings:
- Maximum Pressure: 150 psig (10 bar)
- Maximum Temperature: 250°F (121°C)
- Maximum Speed: 25 RPM
- Media: Water

CJE – Single Flow

<table>
<thead>
<tr>
<th>Size (K)</th>
<th>M</th>
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<th>B</th>
<th>C</th>
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CJE – Dual Flow

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* Tube O.D.
### Type CJI

#### Features
- Deep grease galley
- No mechanical seal
- Quad-Ring with anti-friction coating
- Optional ceramic plated nipple

#### Benefits
- Optimal lubrication for multiple campaigns
- Fast and easy repair
- Extended operating life, less wear
- Minimal wear to nipple sealing area

#### CJIA – Single Flow

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#### CJID – Dual Flow

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* Tube O.D.

#### Ratings
- Maximum Pressure: 150 psig (10 bar)
- Maximum Temperature: 250°F (121°C)
- Maximum Speed: 100 RPM
- Media: Water

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![Diagram of CJIA Single Flow](Diagram)  

![Diagram of CJID Dual Flow](Diagram)
Type OTS

Features
- All stainless steel, bronze, and aluminum material options
- Custom-designed and manufactured
- Quad-Seal with anti-friction coating
- Simple design, minimal components
- Soft-seal repair kit available
- Mechanical seal version available for high speed

Benefits
- Highly resistant to corrosion
- Application flexibility
- Proven long-term performance
- Fast repair, long life
- Convenient ordering, simple maintenance
- Extended performance life

Mechanical Seal | Quad-Seal
---|---
Maximum Pressure: 150 psig (10 bar) | 150 psig (10 bar)
Maximum Temperature: 220°F (105°C) | 200°F (93°C)
Maximum Speed: 750 RPM | 4 RPM
Media: Water | Water

Type OTS with mechanical seal

Type OTS with Quad-Seal
**Type RX**

**Ratings**
- Maximum Pressure: 200 psig (13 bar)
- Maximum Temperature: 400°F (204°C)
- Maximum Speed: 3,500 RPM
- Media: Water, Thermal Oil

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Sizes available up through 6". Dimensions shown for taper threaded rotor.
Many suppliers have made a commitment to the international marketplace. But few have taken that commitment as far as Kadant Johnson. To assure product availability wherever it’s needed, Kadant Johnson joints, syphons, and related equipment are manufactured in Asia, Europe, North America, and South America.

Because knowledgeable advice and prompt service are as important as the products, Kadant Johnson has factory-authorized representatives in nearly 150 countries. So no matter where you are, Kadant Johnson products, service, and assistance are nearby.

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fax: +31 294 431359

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tel: +55 11 3932 7877
fax: +55 11 3931 4043

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Wuxi City, Jiangsu Province, China
tel: +86 510 85212218
fax: +86 510 85212038