

# ***DOUBLE E ROTOFLUX ROTARY UNIONS***

***For constant pressure applications***



- ***High-precision design reduces vibration***
- ***Stainless steel rotor and solid brass housing reduce corrosion***
- ***Easy cross reference to your existing union***
- ***Strong, durable, affordable***



***DOUBLE E COMPANY, INC.***

***Excellence in Engineering***

## **DOUBLE E ROTOFLEX ROTARY UNIONS**

Double E Rotoflex rotary unions are designed and manufactured to solve many of the problems commonly associated with rotary unions, including corrosion, leaking, and vibration. Through the use of advanced design and top-quality materials, Rotoflex unions offer durability and strength, and a large inventory of standard sizes and short delivery times ensure that your production schedule is met.

### **DOUBLE E QUALITY**

Rotoflex rotary unions offer quality of design, materials, and manufacture. Using proven union designs, Double E Rotoflex unions are built using only high-grade materials, including an all-brass housing, stainless steel rotors, and tungsten carbide seals. Rotoflex unions ensure that your high tolerance machinery

works the way it was designed to – without added vibration or noise.

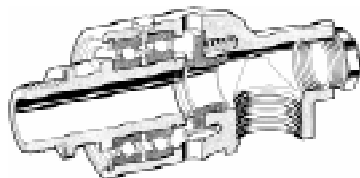
### **ADVANCED DESIGN**

The double ball bearing design of Rotoflex unions allows the rotor to rotate freely, without vibration or wobble. The stainless steel rotors are designed with an end pilot for high speed applications to ensure concentric rotation. A flanged rotor can be used on applications that require both clockwise and counterclockwise rotation. Stainless steel springs ensure corrosion-free performance throughout the life of the union. Also, a short union is available for applications with limited space.

### **EMPHASIS ON SEALS**

Double E Rotoflex unions have been designed with seals in mind. Tungsten carbide to carbon graphite seals are used for clean water, steam, air, vacuum, and hot oil applications.

## **ROTOFLUX UNIVERSAL DESIGN STANDARD SIZES**

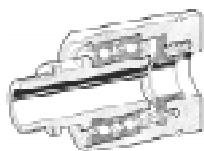


**Universal  
Design**

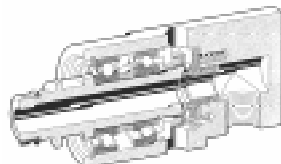
	1/4 Inch NPT	3/8 Inch NPT	1/2 Inch NPT	3/4 Inch NPT	1 Inch NPT	1 1/4 Inch NPT	1 1/2 Inch NPT	2 Inch NPT
Single Passage Seals Type N	RH LH	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED
Single Passage Seals Type D	RH LH	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED
Double Passage Seals Type N	N/A	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED
Single Passage Seals Type D	N/A	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED
Single Passage Seals Type N Rotating Syphon	N/A	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED
Single Passage Seals Type D Rotating Syphon	N/A	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED	RH LH FLANGED

*N Seal = tungsten carbide against carbon graphite, D Seal = tungsten carbide against tungsten carbide.  
RH = Right handed, LH = Left handed. NOTE: Also available in metric sizes.*

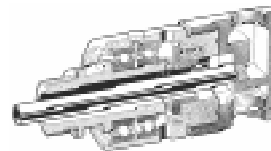
### **OTHER UNION DESIGNS INCLUDE:**



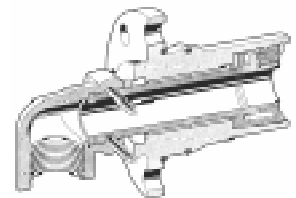
**In-Shaft Design**



**High Speed Design**



**Short Design**



**Angle Design**

Tungsten carbide to tungsten carbide seals are used for applications with poorly filtered water, hydraulic oil, coolant, and abrasive fluids. All seal faces are micro-lapped for a perfect fit, ensuring that specific pressures on both sides of the seal remain in balance regardless of fluid or air pressure. A unique pin design prevents the rotation of the floating seal, and a Viton O-ring provides static sealing even in high temperatures and harsh chemical conditions.

**BACKED BY AN  
INDUSTRY LEADER**

For nearly 30 years, the Double E Company has been engineering, manufacturing, and distributing innovative web handling products for the paper, film, and foil converting industries. The Double E Company is proud to offer top quality customer and product support for Rotoflux rotary unions. Spare parts

and accessories are always available for immediate delivery. Double E supplies a complete line of rotary

unions for your printing, converting, and packaging needs. Call today for more information.

**UNIQUE FEATURES OF DOUBLE E  
ROTOFLUX ROTARY UNIONS**

**Durable and dependable.**

**Two ball bearings eliminate vibration and wobble.**

**Stainless steel rotors and brass housing eliminate corrosion.**

**Unique seal design ensures a constant pressure.**

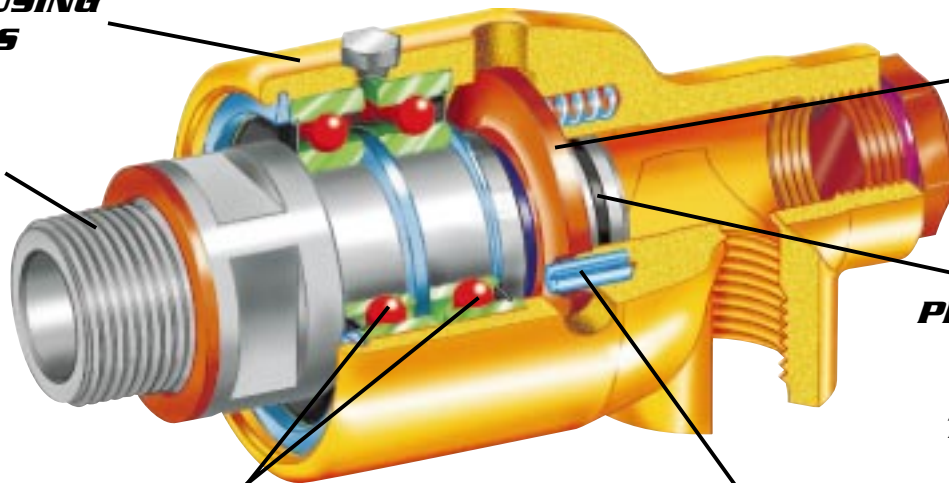
**Viton O-Ring provides a complete seal, even in high temperatures.**

**COMPONENTS OF DOUBLE E  
ROTOFLUX ROTARY UNIONS**

**SOLID BAR STOCK  
BRASS HOUSING  
ELIMINATES  
LEAKAGE**

**STAINLESS  
STEEL  
ROTORS**

**DOUBLE BALL BEARINGS  
ELIMINATE VIBRATION  
AND WOBBLE**



**TUNGSTEN  
CARBIDE AND  
CARBON  
GRAPHITE  
SEALS ENSURE  
A CONSTANT  
PRESSURE**

**VITON O-RING  
PROVIDES A COM-  
PLETE SEAL,  
EVEN IN HIGH  
TEMPERATURES**

**PIN PREVENTS ROTATING  
OF FLOATING SEAL**

**DOUBLE E ROTOFLUX ROTARY UNIONS**

# **DOUBLE E ROTOFLEX ROTARY UNION SPECIFICATIONS**

**Double E Rotoflex rotary unions are interchangeable with nearly all manufacturers, including Deublin and Johnson. For more information, fill out the information below and fax back to (508) 580-2915.**

Company Name: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Postal Code, Country: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

## **GENERAL SPECIFICATIONS**

Media: \_\_\_\_\_ Media pressure (PSI): \_\_\_\_\_

Rotation speed (RPM): \_\_\_\_\_

Media temperature (°C or °F): \_\_\_\_\_

Union size: \_\_\_\_\_ Rotor thread: \_\_\_\_\_

# of passages: \_\_\_\_\_

If 2 passages are required:

Stationary siphon pipe  Rotating siphon pipe

Is media filtered?  Yes  No

Clean or dirty media: \_\_\_\_\_

## **CURRENT APPLICATION**

Kind of application: \_\_\_\_\_

Type of machine: \_\_\_\_\_

Special conditions:

Dirty ambient  Pressure peaks  Dry run

Special union mounting  Other: \_\_\_\_\_

## **PRESENT UNION**

Manufacturer: \_\_\_\_\_

Part Number: \_\_\_\_\_

Quantity Required: \_\_\_\_\_

## **PROBLEMS W/PRESENT UNIONS**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



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*The SR71 was first introduced in 1965 as a state-of-the-art spy plane. At the time, it revolutionized aerodynamic technology, and to this day it represents superior engineering, speed, strength, and being the best. The Double E Company is proud to have the consent of Lockheed Aircraft to use the SR71 as its corporate symbol.*