

FLUIDEN

Assurance for Excellence



Rotary Unions

for

• Water • Hot Oil • Steam • Air • Hydraulic • Vacuum • Coolant • Custom Applications

www.fluidenrotaryunions.com

" Excellence built into every Rotary Unions "

FLUIDEN offer wide range of Rotary Unions/ Rotary Joints for new Installations and as well as easily equivalent and retrofit for other brands of rotary unions with best quality range at a very competitive prices & excellence after sales services in India.

We are manufacturing a wide range of Rotary Unions / Rotary Joints for different applications include water, steam, thermal oil, hydraulic oil, air, and coolant and for custom applications too. From receiving inquiry to delivery and for best service after sales a gentle cooperation with our customers will always in line with customers satisfaction and product performance. We adhere to our customers through accurate information, effective analysis, accurate conclusions, short response times, and comprehensive optimization for best solution.

The reason for our success

The true strength of our passion is we do not see quality as a standard but rather as a lifelong commitment to our valued customer for performance and superior after sales support.....

We are always there for you...

Our experience and expertise philosophy have always a quality time for our customers, we are identifying problem and then implementing in the form of an optimized solution.....



our aim

" To be the first choice for Rotary Unions / Rotary Joints customers. As one of the experienced manufacturers of rotary unions in existence, our aim is to maximize the quality and value of our products & services. This is accomplished by many years of experience and constant deals with our customers they can always rely on our rotary union's high quality, reliability, and safety with customer needs "

Leak-proof solutions for excellent performance



We are working on customer oriented service
with **excellent quality of product**

We at **FLUIDEN** is one of Best Rotary Union/ Rotary Joints manufacturer in India.

FLUIDEN offers wide Range of Rotary Unions for New Installations and as well as easily equivalent for other brands of rotary unions with best quality range of rotating unions at a very competitive prices & excellence after sales services in India.

FLUIDEN is manufacturing a wide range of Rotary Unions for different applications. A rotary joint, also designated to as a Rotary Union or Rotating Union, permits the flow of various media from a stationary supply pipe and into and/or out of rotating equipment. Heat transfer and hydraulic media typically used with rotary joints and rotating unions include steam, water, thermal oil, hydraulic oil, air, and coolant.

FLUIDEN rotating unions must be capable to with stand high pressure with high rotating speed.

FLUIDEN rotary joints, premier in the industry, are designed for cold and hot water, steam up to 250°C/482°F, 40 bar, hot oil up to 390°C/734°F, hydraulic oil, air up to 40 bar, chemical media, coolant up to 150 bar, vacuum, high running speeds.

Rotary Unions for Comprehensive Industries....



Iron & Steel

FLUIDEN Rotary Unions are used into casting, hot and cold rolling, extrusion, and galvanizing applications in the metals industry. Resistant to external temperatures, rotary unions are used into continuous casting cooling rolls and into hydraulic coiler & de coiler as a media of water & hydraulic...

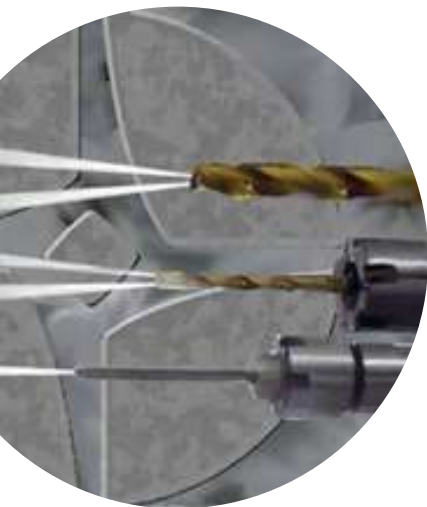
Textile

FLUIDEN Rotary Unions are used in textile machinery industry. It is used into Weaving, dyeing and finishing process machinery. Rotary unions are used for drying and cooling processes use heated or cooled rolls or dryer with use of media of water, steam and hot oil...



Machine Tools

FLUIDEN Rotary Unions for coolant, air, and oil service are high-performance, high-precision rotary unions which are generally applied to spindles on CNC machines, gun drilling, milling, and other machinery by media using water and coolant...



Corrugating

FLUIDEN Rotary Unions are used in the wet end of corrugating operations including on preheater rolls, single facers, preheat stack dryers, glue stations, and double backers, flexo printing, calendaring, and cooling applications machinery by media using Steam and hot oil with advantage of siphon pipe system...



Rotary Unions for Comprehensive Industries....



Paper

FLUIDEN Rotary Unions are used into paper mills & paper converters machines by use of steam joint and siphon systems and water unions for heating and cooling. Rotary unions are using into Paper dryers heating rolls by media using steam, hot water and oil with advantage of siphon system.

Plastic

FLUIDEN Rotary Unions are used into plastic machinery including cast film, blown film, foam, flexible and rigid sheet extrusion, single and multi-layer co-extrusion, blow molding, thermoforming, printing machine cooling cylinder, flexo printing machine cooling cylinder for water, thermal oil, air and hydraulic applications...



Rubber & Tire

FLUIDEN Rotary Unions are used into Rubber and tire manufacturing industries including mixing and extrusion of the rubber combined with other ingredients by using of media Water and steam.

& many more **custom rotary unions** for your application with variety of media including **water, air, coolant, hot oil, steam...**

Developing a wide vertical range of rotary unions with

optimized manufacturing processes High quality for demanding applications....

Manufacturing



Most of the products and spare parts are stocked at the factory and can be delivered in a very short time. When in need of a special product, customer receives quotation with technical information and drawings. After confirmation of the order, finished product is supplied in a very short time. From the receipt of the raw materials to the shipment of the final product, our total production process is subject to the strictest quality controls.

FLUIDEN assured for perfect seal combination for various types of media likes clean water, air, vacuum, hot oil, poor filtering water, hydraulic oil, coolant, etc.

FLUIDEN keep designing perfect balanced seal combinations with micro-lapped for the specific pressure, on the seal faces, constant regardless of the fluid pressure.

Quality



Quality is the priority principle of **FLUIDEN**. In order to secure such principle quality, control starts with the raw material entrance and continues through all production processes and ends up with the quality control of all the products one by one. Quality control continues by the information exchange with the customers and the data collected is widely used in products development. The quality of **FLUIDEN** is warranted by the testing of every single rotary union before delivery to customers. Only high quality materials are used in making **FLUIDEN** rotary unions. The careful control of the manufacturing process involved in producing the necessary parts warranties that all the unions are manufactured within the technical specification. The control of the manufacturing process warranties that the entire products are manufactured within the technical specification. Every delivered product was tested on modern benches under customer's application parameters.

Service & Reliability

Our customers can always rely on our quality of products. We offers full support to our customers through out lifetime of product.

Quality is more important for us than making a good product

Our Product Solutions

at a Glance....

3000 Series

Water, Saturated Steam & Hot Oil Services



- Max. Water Pressure 10 bar (150 psi)
- Max. Saturated Steam Pressure 1 bar (15 psi)
- Max. Hot Oil Pressure 7 bar (100 psi)
- Max. Temperature 126°C (260° F)
- Max. Rotor Speed 3500 rpm
- Rotor Thread Sizes 1/4" to 2" BSP, NPT, UNF, Metric

4000 Series

Water, Saturated Steam & Hot Oil Services

- Max. Water Pressure 14 bar (200 psi)
- Max. Saturated Steam Pressure 1 bar (14 psi)
- Max. Temperature 120°C (248° F)
- Max. Rotor Speed 750 rpm
- Rotor Thread Sizes 2-1/2" BSP, NPT, UNF, Metric



8000 series

Steam & Hot Oil Services



- Max. Saturated Steam Pressure 0.8 to 30 bar
- Max. Hot Oil Pressure 0.8 to 10 bar
- Max. Temperature -30°C to 320°C
- Max. Rotor Speed 450 rpm
- Rotor Thread Sizes 1" to 2-1/2" BSP, NPT, UNF, Metric

5700 Series

Continues Casting Machines (CCM)

- Max. Water Pressure 10 bar (150 psi)
- Max. Temperature 85°C (185° F)
- Max. Rotor Speed 250 rpm
- Inlet Thread Sizes 3/4" to 1" BSP, NPT, UNF, Metric



5500 Series

Multi-Media Rotary Unions



- Max. Air Pressure 10 bar (145 psi)
- Max. Hydraulic Pressure for High Speed Operation 60 bar (860 psi)
- Max. Hydraulic Pressure for Low Speed Operation 245 bar (3500 psi)
- Max. Temperature 80°C (175° F)
- Max. Rotor Speed 250 rpm
- Inlet Thread Sizes 3/8" to 1/2" BSP, NPT, UNF, Metric

2000 Series

Air-Hydraulic, Vacuum Services

- Max. Air Pressure 10 bar (145 psi)
- Max. Vacuum Pressure 2" Hg (6.7 kPa)
- Max. Hydraulic Pressure 70 bar (1,000 PSI)
- Max. Temperature 70°C (160° F)
- Max. Rotor Speed 3,500 rpm
- Rotor Thread Sizes 1/8" to 1-1/2" BSP, NPT, UNF, Metric



1000 Series

Coolant for Machine Tools

- Max. Coolant Pressure 1,500 PSI (105 BAR)
- Max. Coolant Temperature 70°C (160° F)
- Max. Rotor Speed 20,000 rpm
- Rotor Thread Sizes Available as per Machine Spindle end size

& many more custom rotary unions for new installations as well as easily interchangeable with other brands of rotary unions
& best suitable for your application with variety of media including water, air, coolant, hot oil, steam...

3000 Series



**Rotary Unions for General Purpose
Water, Saturated steam & Hot Oil Service**

3000 Series Rotary Unions for General Purpose Water, Saturated Steam & Hot Oil Services



Special Design Features

- Self-supported rotary union
- Forged brass housing up to 2" size
- Corrosion resist stainless steel rotor
- Highly precise and lubricated heavy duty ball bearings for long life and stable rotation
- Specially designed mechanical seals to sustain high pressure changes with minimum friction and wear for prolong service life
- Seal face combination: Silicon Carbide to Carbon Graphite
- Designed for both mono-flow and duo-flow
- Available in both US and metric standards
- Easy installation
- Customized models are available

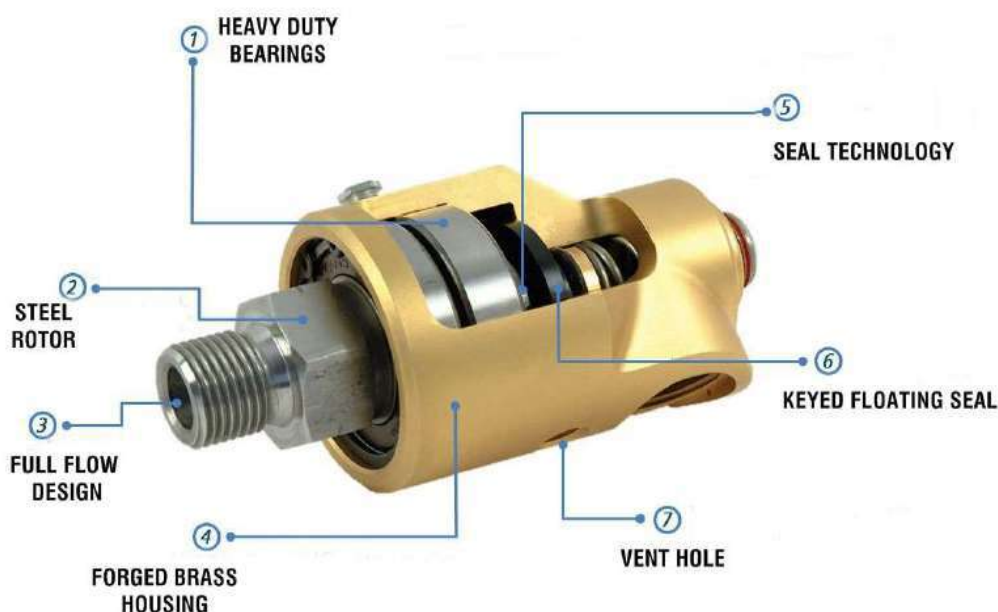
Technical Data

- | | |
|---------------------------------|--------------------|
| • Max. Water Pressure | 10 bar (150 psi) |
| • Max. Saturated Steam Pressure | 1 bar (15 psi) |
| • Max. Hot Oil Pressure | 7 bar (100 psi) |
| • Max. Temperature | 126°C (260° F) |
| • Max. Rotor Speed for | |
| • Sizes 3/8", 1/2", 3/4" | 3500 rpm |
| • Size 1" | 3000 rpm |
| • Size 1-1/4", 1-1/2" | 2500 rpm |
| • Size 2" | 750 rpm |
| • Max. Flow of Media | 24 L / min |

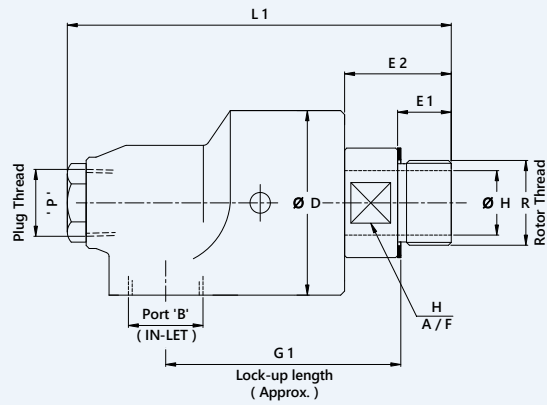
Mono-flow & Duo-flow Design

Size DN 8 (1/4") to DN 50 (2")

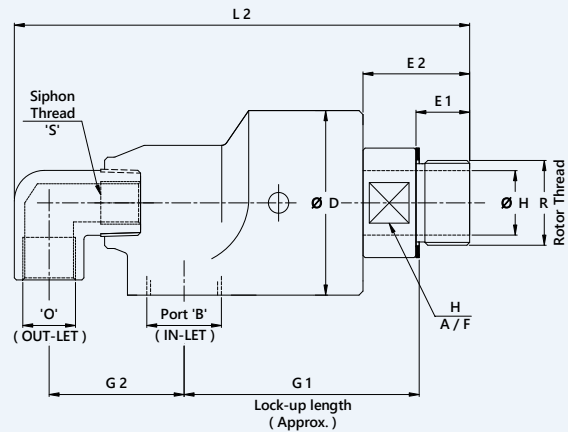
Construction of 3000 Series Rotary Union



Mono-flow Design



Duo-flow Design



Size	Model No.		'B' Port Size	'R' Rotor Thread	'O' Outlet Thread	'S' Siphon Thread	Ø D	E 1	E 2	G 1 Lockup Approx.	G 2	Ø H	L 1	L 2	'P' Plug Thread
	Mono-flow	Duo-flow													
DN 8	3000-108-11R	3000-208-11R	1/4"	G 1/4" BSP-RH	---	---	43.5	16	---	69.3	---	---	97.5	---	---
1/4"	3000-108-11L	3000-208-11L	1/4"	G 1/4" BSP-LH	---	---	43.5	16	---	69.3	---	---	97.5	---	---
DN 10	3000-110-11R	3000-210-11R	3/8"	G 3/8" BSP-RH	1/4"	M 6 X 1	45	16.5	26	64.5	35	9.5	101.5	122.5	1/4"
	3000-110-11L	3000-210-11L	3/8"	G 3/8" BSP-LH	1/4"	M 6 X 1	45	16.5	26	64.5	35	9.5	101.5	122.5	1/4"
	3000-110-12R	3000-210-12R	3/8"	3/8" NPT-RH	1/4"	M 6 X 1	45	16.5	26	69.3	35	9.5	99.5	122.5	1/4"
	3000-110-12L	3000-210-12L	3/8"	3/8" NPT-LH	1/4"	M 6 X 1	45	16.5	26	69.3	35	9.5	99.5	122.5	1/4"
	3000-110-14R	3000-210-14R	3/8"	5/8"-18 UNF-RH	1/4"	---	45	16.5	26	64.5	35	9.5	99.5	122.5	1/4"
	3000-110-14L	3000-210-14L	3/8"	5/8"-18 UNF-LH	1/4"	---	45	16.5	26	64.5	35	9.5	99.5	122.5	1/4"
DN 15	3000-115-11R	3000-215-11R	1/2"	G 1/2" BSP-RH	3/8"	G 1/8" BSP	57	20	35	80	38	12.7	120	148	3/8"
	3000-115-11L	3000-215-11L	1/2"	G 1/2" BSP-LH	3/8"	G 1/8" BSP	57	20	35	80	38	12.7	120	148	3/8"
	3000-115-12R	3000-215-12R	1/2"	1/2" NPT-RH	3/8"	G 1/8" BSP	57	22	35	90	38	12.7	121	148	3/8"
	3000-115-12L	3000-215-12L	1/2"	1/2" NPT-LH	3/8"	G 1/8" BSP	57	22	35	90	38	12.7	121	148	3/8"
	3000-115-14R	3000-215-14R	1/2"	3/4"-16 UNF-RH	3/8"	G 1/8" BSP	57	20	35	80	38	12.7	120	146	3/8"
	3000-115-14L	3000-215-14L	1/2"	3/4"-16 UNF-LH	3/8"	G 1/8" BSP	57	20	35	80	38	12.7	120	146	3/8"
	3000-115-13R	3000-215-13R	1/2"	M 22 X 1.5 RH	3/8"	G 1/8" BSP	57	20	37	80	38	12.7	120	146	3/8"
	3000-115-13L	3000-215-13L	1/2"	M 22 X 1.5 LH	3/8"	G 1/8" BSP	57	20	37	80	38	12.7	120	146	3/8"
DN 20	3000-120-11R	3000-220-11R	3/4"	G 3/4" BSP-RH	1/2"	G 1/4" BSP	73	20	34	96	45	17.5	138	168	1/2"
	3000-120-11L	3000-220-11L	3/4"	G 3/4" BSP-LH	1/2"	G 1/4" BSP	73	20	34	96	45	17.5	138	168	1/2"
	3000-120-12R	3000-220-12R	3/4"	3/4" NPT-RH	1/2"	G 1/4" BSP	73	22	34	96	45	17.5	171	171	1/2"
	3000-120-12L	3000-220-12L	3/4"	3/4" NPT-LH	1/2"	G 1/4" BSP	73	22	34	96	45	17.5	171	171	1/2"
	3000-120-15R	3000-220-15R	3/4"	1"-14 UNS-RH	1/2"	G 1/4" BSP	73	20	34	104	45	17.5	138	198	1/2"
	3000-120-15L	3000-220-15L	3/4"	1"-14 UNS-LH	1/2"	G 1/4" BSP	73	20	34	104	45	17.5	138	168	1/2"
	3000-120-13R	3000-220-13R	3/4"	M 27 X 1.5 RH	1/2"	G 1/4" BSP	73	20	35	96	45	17.5	138	168	1/2"
	3000-120-13L	3000-220-13L	3/4"	M 27 X 1.5 LH	1/2"	G 1/4" BSP	73	20	35	96	45	17.5	138	168	1/2"
DN 25	3000-125-11R	3000-225-11R	1"	G 1" BSP-RH	1/2"	G 3/8" BSP	83	22	42	109	59	25	165	203	3/4"
	3000-125-11L	3000-225-11L	1"	G 1" BSP-LH	1/2"	G 3/8" BSP	83	22	42	109	59	25	165	203	3/4"
	3000-125-12R	3000-225-12R	1"	1" NPT-RH	1/2"	G 3/8" BSP	83	30	42	121	59	25	173	211	3/4"
	3000-125-12L	3000-225-12L	1"	1" NPT-LH	1/2"	G 3/8" BSP	83	30	42	121	59	25	173	211	3/4"
	3000-125-14R	3000-225-14R	1"	1-1/2"-12 UNF-RH	1/2"	G 3/8" BSP	83	30	42	121	59	25	173	211	3/4"
	3000-125-14L	3000-225-14L	1"	1-1/2"-12 UNF-LH	1/2"	G 3/8" BSP	83	30	42	121	59	25	173	211	3/4"
	3000-125-13R	3000-225-13R	1"	M 35 X 1.5 RH	1/2"	G 3/8" BSP	83	30	36	121	59	25	173	211	3/4"
	3000-125-13L	3000-225-13L	1"	M 35 X 1.5 LH	1/2"	G 3/8" BSP	83	30	36	121	59	25	173	211	3/4"
DN 32	3000-132-11R	3000-232-11R	1-1/4"	G 1-1/4" BSP-RH	3/4"	G 1/2" BSP	91	28	54	121	71	31.8	191	234	1"
	3000-132-11L	3000-232-11L	1-1/4"	G 1-1/4" BSP-LH	3/4"	G 1/2" BSP	91	28	54	121	71	31.8	191	234	1"
	3000-132-12R	3000-232-12R	1-1/4"	1-1/4" NPT-RH	3/4"	G 1/2" BSP	91	30	54	191	71	31.8	191	238	1"
	3000-132-12L	3000-232-12L	1-1/4"	1-1/4" NPT-LH	3/4"	G 1/2" BSP	91	30	54	191	71	31.8	191	238	1"
	3000-132-16R	3000-232-16R	1-1/4"	1-3/4"-12 UN-RH	3/4"	G 1/2" BSP	91	30	54	191	71	31.8	191	237	1"
	3000-132-16L	3000-232-16L	1-1/4"	1-3/4"-12 UN-LH	3/4"	G 1/2" BSP	91	30	54	191	71	31.8	191	237	1"
DN 40	3000-140-11R	3000-240-11R	1-1/2"	G 1-1/2" BSP-RH	3/4"	G 3/4" BSP	108	30	72	149	78	38	225	268	1-1/4"
	3000-140-11L	3000-240-11L	1-1/2"	G 1-1/2" BSP-LH	3/4"	G 3/4" BSP	108	30	72	149	78	38	225	268	1-1/4"
	3000-140-12R	3000-240-12R	1-1/2"	1-1/2" NPT-RH	3/4"	G 3/4" BSP	108	30	72	152	78	38	215	261	1-1/4"
	3000-140-12L	3000-240-12L	1-1/2"	1-1/2" NPT-LH	3/4"	G 3/4" BSP	108	30	72	152	78	38	215	261	1-1/4"
	3000-140-16R	3000-240-16R	1-1/2"	2"-12 UN-RH	3/4"	G 3/4" BSP	108	30	72	152	78	38	225	272	1-1/4"
	3000-140-16L	3000-240-16L	1-1/2"	2"-12 UN-LH	3/4"	G 3/4" BSP	108	30	72	152	78	38	225	272	1-1/4"
	3000-140-13R	3000-240-13R	1-1/2"	M 50 X 1.5 RH	3/4"	G 3/4" BSP	108	30	72	152	78	38	225	272	1-1/4"
	3000-140-13L	3000-240-13L	1-1/2"	M 50 X 1.5 LH	3/4"	G 3/4" BSP	108	30	72	152	78	38	225	272	1-1/4"
DN 50	3000-150-11R	3000-250-11R	2"	G 2" BSP	3/4"	G 1" BSP	117	30	65	166	78	47.6	246	289	1-1/4"
	3000-150-11L	3000-250-11L	2"	G 2" BSP	3/4"	G 1" BSP	117	30	65	166	78	47.6	246	289	1-1/4"
	3000-150-12R	3000-250-12R	2"	2" NPT	3/4"	G 1" BSP	117	40	65	181	78	47.6	257	300	1-1/4"
	3000-150-12L	3000-250-12L	2"	2" NPT	3/4"	G 1" BSP	117	40	65	181	78	47.6	257	300	1-1/4"

Subject to technical & dimensional changes without prior notice.

3100 Series Rotary Unions for General Purpose

Water, Saturated Steam & Hot Oil Services



Special Design Features

- Self-supported rotary union
- Forged brass housing up to 2" size
- Corrosion resist stainless steel rotor
- Highly precise and lubricated heavy duty ball bearings for long life and stable rotation
- Specially designed mechanical seals to sustain high pressure changes with minimum friction and wear for prolong service life
- Seal face combination: Carbon Graphite to Ceramic
- Designed for both mono-flow and duo-flow
- Available in both US and metric standards
- Easy installation
- Custom models are available

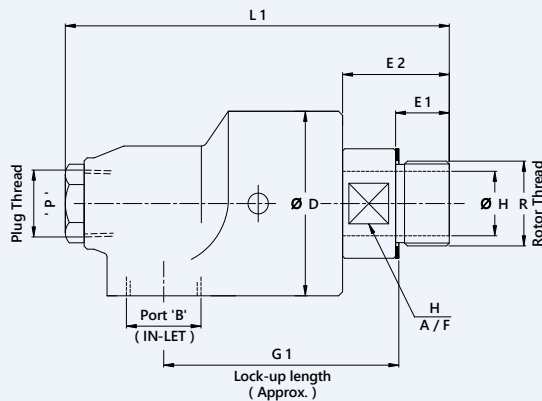
Technical Data

- Max. Water Pressure 10 bar (150 psi)
- Max. Saturated Steam Pressure 1 bar (15 psi)
- Max. Hot Oil Pressure 7 bar (100 psi)
- Max. Temperature 126°C (260° F)
- Max. Rotor Speed for
- Sizes 3/8", 1/2", 3/4" 3500 rpm
- Size 1" 3000 rpm
- Size 1-1/4", 1-1/2" 2500 rpm
- Size 2" 750 rpm
- Max. Flow of Media 24 L / min

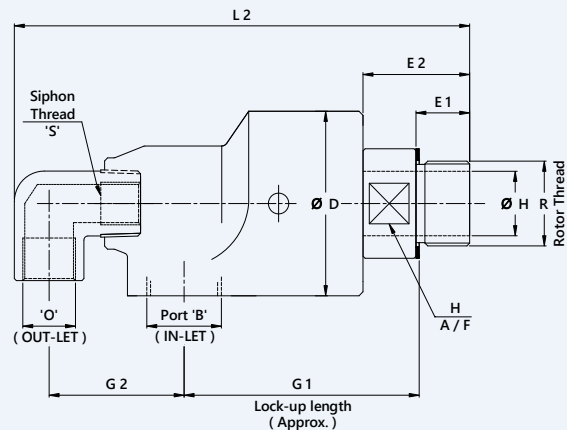
Mono-flow & Duo-flow Design

Size DN 8 (1/4") to DN 50 (2")

Mono-flow Design



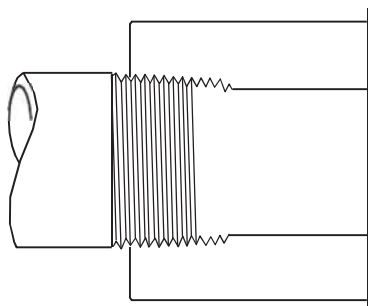
Duo-flow Design



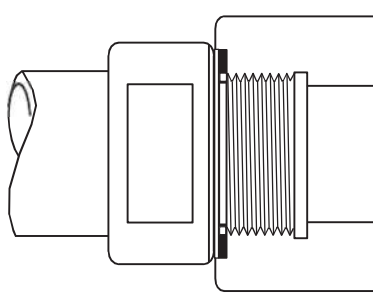
Size	Model No.		'B' Port Size	'R' Rotor Thread	'O' Outlet Thread	'S' Siphon Thread	Ø D	E 1	E 2	G 1 Lockup Approx.	G 2	Ø H	L 1	L 2	'P' Plug Thread
	Mono-flow	Duo-flow													
DN 8 1/4"	3100-108-21R	3100-208-21R	1/4"	G 1/4" BSP-RH	---	---	43.5	16	---	69.3	---	---	97.5	---	---
	3100-108-21L	3100-208-21L	1/4"	G 1/4" BSP-LH	---	---	43.5	16	---	69.3	---	---	97.5	---	---
DN 10 3/8"	3100-110-21R	3100-210-21R	3/8"	G 3/8" BSP-RH	1/4"	M 6 X 1	45	16.5	26	64.5	35	9.5	101.5	122.5	1/4"
	3100-110-21L	3100-210-21L	3/8"	G 3/8" BSP-LH	1/4"	M 6 X 1	45	16.5	26	64.5	35	9.5	101.5	122.5	1/4"
	3100-110-22R	3100-210-22R	3/8"	3/8" NPT-RH	1/4"	M 6 X 1	45	16.5	26	69.3	35	9.5	99.5	122.5	1/4"
	3100-110-22L	3100-210-22L	3/8"	3/8" NPT-LH	1/4"	M 6 X 1	45	16.5	26	69.3	35	9.5	99.5	122.5	1/4"
	3100-110-24R	3100-210-24R	3/8"	5/8"-18 UNF-RH	1/4"	---	45	16.5	26	64.5	35	9.5	99.5	122.5	1/4"
	3100-110-24L	3100-210-24L	3/8"	5/8"-18 UNF-LH	1/4"	---	45	16.5	26	64.5	35	9.5	99.5	122.5	1/4"
DN 15 1/2"	3100-115-21R	3100-215-21R	1/2"	G 1/2" BSP-RH	3/8"	G 1/8" BSP	57	20	35	80	38	12.7	120	148	3/8"
	3100-115-21L	3100-215-21L	1/2"	G 1/2" BSP-LH	3/8"	G 1/8" BSP	57	20	35	80	38	12.7	120	148	3/8"
	3100-115-22R	3100-215-22R	1/2"	1/2" NPT-RH	3/8"	G 1/8" BSP	57	22	35	90	38	12.7	121	148	3/8"
	3100-115-22L	3100-215-22L	1/2"	1/2" NPT-LH	3/8"	G 1/8" BSP	57	22	35	90	38	12.7	121	148	3/8"
	3100-115-24R	3100-215-24R	1/2"	3/4"-16 UNF-RH	3/8"	G 1/8" BSP	57	20	35	80	38	12.7	120	146	3/8"
	3100-115-24L	3100-215-24L	1/2"	3/4"-16 UNF-LH	3/8"	G 1/8" BSP	57	20	35	80	38	12.7	120	146	3/8"
	3100-115-23R	3100-215-23R	1/2"	M 22 X 1.5 RH	3/8"	G 1/8" BSP	57	20	37	80	38	12.7	120	146	3/8"
	3100-115-23L	3100-215-23L	1/2"	M 22 X 1.5 LH	3/8"	G 1/8" BSP	57	20	37	80	38	12.7	120	146	3/8"
DN 20 3/4"	3100-120-21R	3100-220-21R	3/4"	G 3/4" BSP-RH	1/2"	G 1/4" BSP	73	20	34	96	45	17.5	138	168	1/2"
	3100-120-21L	3100-220-21L	3/4"	G 3/4" BSP-LH	1/2"	G 1/4" BSP	73	20	34	96	45	17.5	138	168	1/2"
	3100-120-22R	3100-220-22R	3/4"	3/4" NPT-RH	1/2"	G 1/4" BSP	73	22	34	96	45	17.5	171	171	1/2"
	3100-120-22L	3100-220-22L	3/4"	3/4" NPT-LH	1/2"	G 1/4" BSP	73	22	34	96	45	17.5	171	171	1/2"
	3100-120-25R	3100-220-25R	3/4"	1"-14 UNS-RH	1/2"	G 1/4" BSP	73	20	34	104	45	17.5	138	198	1/2"
	3100-120-25L	3100-220-25L	3/4"	1"-14 UNS-LH	1/2"	G 1/4" BSP	73	20	34	104	45	17.5	138	168	1/2"
	3100-120-23R	3100-220-23R	3/4"	M 27 X 1.5 RH	1/2"	G 1/4" BSP	73	20	35	96	45	17.5	138	168	1/2"
DN 25 1"	3100-120-23L	3100-220-23L	3/4"	M 27 X 1.5 LH	1/2"	G 1/4" BSP	73	20	35	96	45	17.5	138	168	1/2"
	3100-125-21R	3100-225-21R	1"	G 1" BSP-RH	1/2"	G 3/8" BSP	83	22	42	109	59	25	165	203	3/4"
	3100-125-21L	3100-225-21L	1"	G 1" BSP-LH	1/2"	G 3/8" BSP	83	22	42	109	59	25	165	203	3/4"
	3100-125-22R	3100-225-22R	1"	1" NPT-RH	1/2"	G 3/8" BSP	83	30	42	121	59	25	173	211	3/4"
	3100-125-22L	3100-225-22L	1"	1" NPT-LH	1/2"	G 3/8" BSP	83	30	42	121	59	25	173	211	3/4"
	3100-125-24R	3100-225-24R	1"	1-1/2"-12 UNF-RH	1/2"	G 3/8" BSP	83	30	42	121	59	25	173	211	3/4"
	3100-125-24L	3100-225-24L	1"	1-1/2"-12 UNF-LH	1/2"	G 3/8" BSP	83	30	42	121	59	25	173	211	3/4"
	3100-125-23R	3100-225-23R	1"	M 35 X 1.5 RH	1/2"	G 3/8" BSP	83	30	36	121	59	25	173	211	3/4"
DN 32 1-1/4"	3100-125-23L	3100-225-23L	1"	M 35 X 1.5 LH	1/2"	G 3/8" BSP	83	30	36	121	59	25	173	211	3/4"
	3100-132-21R	3100-232-21R	1-1/4"	G 1-1/4" BSP-RH	3/4"	G 1/2" BSP	91	28	54	121	71	31.8	191	234	1"
	3100-132-21L	3100-232-21L	1-1/4"	G 1-1/4" BSP-LH	3/4"	G 1/2" BSP	91	28	54	121	71	31.8	191	234	1"
	3100-132-22R	3100-232-22R	1-1/4"	1-1/4" NPT-RH	3/4"	G 1/2" BSP	91	30	54	191	71	31.8	191	238	1"
	3100-132-22L	3100-232-22L	1-1/4"	1-1/4" NPT-LH	3/4"	G 1/2" BSP	91	30	54	191	71	31.8	191	238	1"
	3100-132-26R	3100-232-26R	1-1/4"	1-3/4"-12 UN-RH	3/4"	G 1/2" BSP	91	30	54	191	71	31.8	191	237	1"
DN 40 1-1/2"	3100-132-26L	3100-232-26L	1-1/4"	1-3/4"-12 UN-LH	3/4"	G 1/2" BSP	91	30	54	191	71	31.8	191	237	1"
	3100-140-21R	3100-240-21R	1-1/2"	G 1-1/2" BSP-RH	3/4"	G 3/4" BSP	108	30	72	149	78	38	225	268	1-1/4"
	3100-140-21L	3100-240-21L	1-1/2"	G 1-1/2" BSP-LH	3/4"	G 3/4" BSP	108	30	72	149	78	38	225	268	1-1/4"
	3100-140-22R	3100-240-22R	1-1/2"	1-1/2" NPT-RH	3/4"	G 3/4" BSP	108	30	72	152	78	38	215	261	1-1/4"
	3100-140-22L	3100-240-22L	1-1/2"	1-1/2" NPT-LH	3/4"	G 3/4" BSP	108	30	72	152	78	38	215	261	1-1/4"
	3100-140-26R	3100-240-26R	1-1/2"	2"-12 UN-RH	3/4"	G 3/4" BSP	108	30	72	152	78	38	225	272	1-1/4"
	3100-140-26L	3100-240-26L	1-1/2"	2"-12 UN-LH	3/4"	G 3/4" BSP	108	30	72	152	78	38	225	272	1-1/4"
	3100-140-23R	3100-240-23R	1-1/2"	M 50 X 1.5 RH	3/4"	G 3/4" BSP	108	30	72	152	78	38	225	272	1-1/4"
DN 50 2"	3100-140-23L	3100-240-23L	1-1/2"	M 50 X 1.5 LH	3/4"	G 3/4" BSP	108	30	72	152	78	38	225	272	1-1/4"
	3100-150-21R	3100-250-21R	2"	G 2" BSP	3/4"	G 1" BSP	117	30	65	166	78	47.6	246	289	1-1/4"
	3100-150-21L	3100-250-21L	2"	G 2" BSP	3/4"	G 1" BSP	117	30	65	166	78	47.6	246	289	1-1/4"
	3100-150-22R	3100-250-22R	2"	2" NPT	3/4"	G 1" BSP	117	40	65	181	78	47.6	257	300	1-1/4"
	3100-150-22L	3100-250-22L	2"	2" NPT	3/4"	G 1" BSP	117	40	65	181	78	47.6	257	300	1-1/4"

Subject to technical & dimensional changes without prior notice.

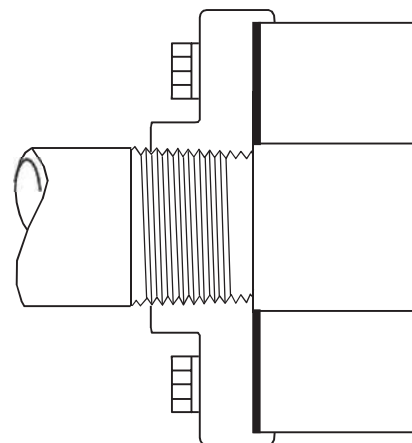
FLUIDEN rotary unions are attached to roll journals using threaded, flanged, or Quick-release flange



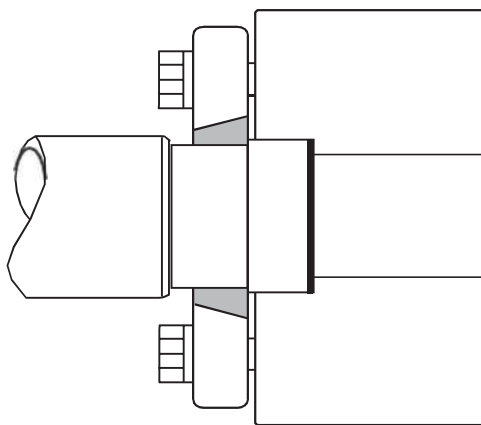
NPT thread
connection



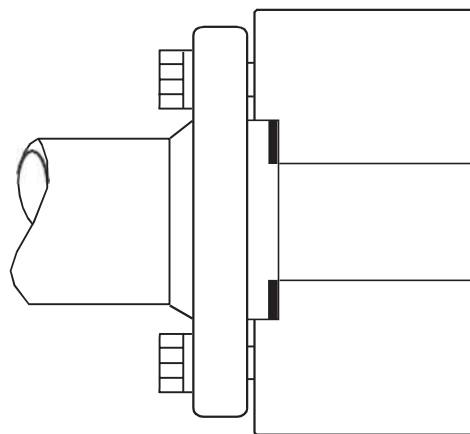
BSP thread
connection



Tapered thread
with adaptor
connection



Quick release flange
connection



Integral flange
connection

4000 Series



**Rotary Unions for General Purpose
Water & Saturated Steam Service**

4000 Series Rotary Unions for General Purpose

Water, Saturated Steam & Hot Oil Services



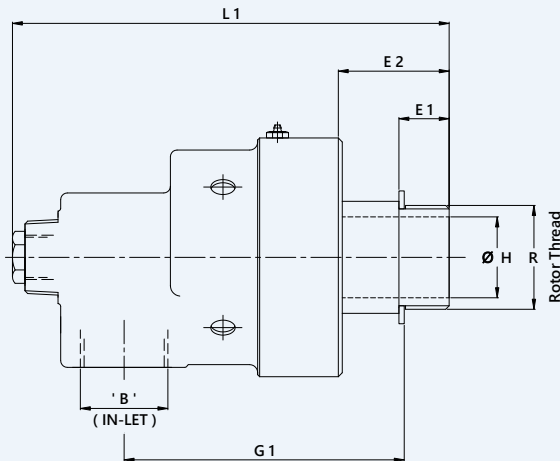
Special Design Features

- Self-supported rotary union
- Cast Iron housing
- Corrosion resist stainless steel rotor
- Highly precise and lubricated heavy duty ball bearings for long life and stable rotation
- Specially designed mechanical seals to sustain high pressure changes with minimum friction and wear for prolong service life
- Available in two seal face combinations
 - * Carbon Graphite to Ceramic
 - * Tungsten Carbide to Ceramic (suitable for poor media quality)
- Designed for both mono-flow and duo-flow
- Available in both US and metric standards
- Easy installation & maintenance

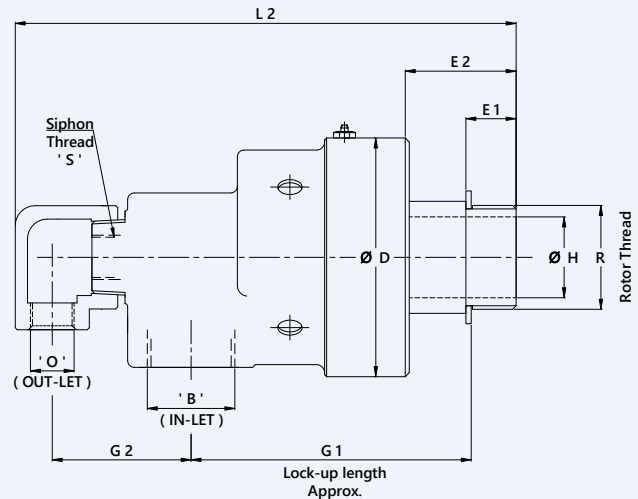
Technical Data

- Max. Water Pressure 14 bar (200 psi)
- Max. Saturated Steam Pressure 1 bar (14 psi)
- Max. Temperature 120°C (248° F)
- Max. Rotor Speed 750 rpm
- Max. Flow of Media 80 L / min

Mono-flow Design



Duo-flow Design



Size	Model No.		'B' Port Size	'R' Rotor Thread	'O' Outlet Thread	'S' Siphon Thread	Ø D	E 1	E 2	G 1 Lockup Approx.	G 2	Ø H	L 1	L 2	'P' Plug Thread
	Mono-flow	Duo-flow													
DN 65 2-1/2"	4000-165-11R	4000-265-11R	2-1/2"	G 2-1/2" BSP-RH	1-1/4"	1" NPT	177.5	38	82	208	109	60.3	312	382	1" NPT
	4000-165-11L	4000-265-11L	2-1/2"	G 2-1/2" BSP-LH	1-1/4"	1" NPT	177.5	38	82	208	109	60.3	312	382	1" NPT
	4000-165-12R	4000-265-12R	2-1/2"	G 2-1/2" NPT-RH	1-1/4"	1" NPT	177.5	48	82	208	109	60.3	312	382	1" NPT
	4000-165-12L	4000-265-12L	2-1/2"	G 2-1/2" NPT-LH	1-1/4"	1" NPT	177.5	48	82	208	109	60.3	312	382	1" NPT
	4000-165-100	4000-265-100	2-1/2"	Quick Release Nipple Connection	1-1/2"	1-1/2" NPT	177.5	---	82	208	112	60.3	312	382	1-1/2" NPT

Subject to technical & dimensional changes without prior notice.
Customized models are available on request.

8000 Series



**Rotary Unions for
Saturated Steam & Hot Oil Service**

8100 Series Mono-flow Rotary Unions for Steam & Hot Oil Applications



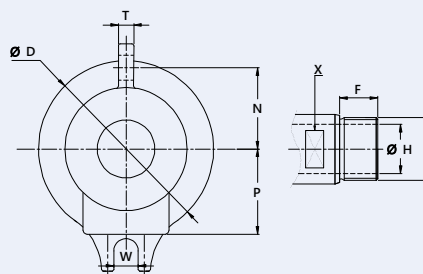
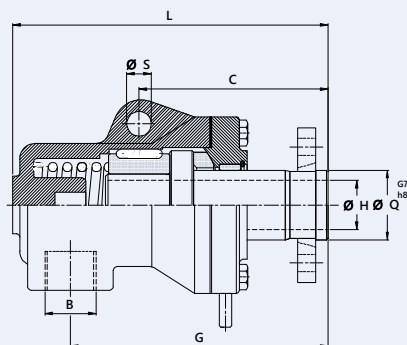
Special Design Features

- Self-supported rotary union
- Heavy duty ductile iron housing up to 2½" size
- Heat treated carbon steel rotor
- Rotation of housing is prevented by fork on housing cover
- Highly wear resistant imported Carbon Graphite bush bearings
- Bush bearings are especially suitable for thermal oil in conditions of high pressure, temperature at moderate speed
- Mono flow design
- Available in both US and metric standards
- Easy installation & repairable
- Custom models are available

Technical Data

- Max. Water Pressure 0.8 to 30 bar
- Max. Saturated Steam Pressure 0.8 to 30 bar
- Max. Hot Oil Pressure 0.8 to 10 bar
- Max. Temperature - 10°C to 320°C
- Max. Rotor Speed for 450 rpm
- Max. Flow of Media 24 L/min

Mono-flow Design



Size	Model No.	'B' Port Size	'R' Rotor Thread	Ø D	S	F	G	Ø H	L	N	P	C	Ø Q G7 / h8	X	W
DN 25 1"	8100-125-31R	1"	G 1" BSP-RH	98	14	29	143	25	173	55	50	105	---	30	14
	8100-125-31L	1"	G 1" BSP-LH	98	14	29	143	25	173	55	50	105	---	30	14
	8100-125-300	1"	---	98	14	29	143	25	173	55	50	105	35	---	14
DN 32 1-1/4"	8100-132-31R	1-1/4"	G 3/8" BSP-RH	115	16	34	168	32	201	64	56	119	---	41	16
	8100-132-31L	1-1/4"	G 3/8" BSP-LH	115	16	34	168	32	201	64	56	119	---	41	16
	8100-132-300	1-1/4"	3/8" NPT-RH	115	16	34	168	32	201	64	56	119	45	---	16
DN 40 1-1/2"	8100-140-31R	1-1/2"	G 1-1/2" BSP-RH	125	16	37	184	38	224	67	67	125	---	46	16
	8100-140-31L	1-1/2"	G 1-1/2" BSP-LH	125	16	37	184	38	224	67	67	125	---	46	16
	8100-140-300	1-1/2"	---	125	16	37	184	38	224	67	67	125	50	---	16
DN 50 2"	8100-150-31R	2"	G 2" BSP-RH	145	18	44	226	50	273	84	81	147	---	60	18
	8100-150-31L	2"	G 2" BSP-LH	145	18	44	226	50	273	84	81	147	---	60	18
	8100-150-300	2"	---	145	18	44	226	50	273	84	81	147	66	---	18
DN 65 2-1/2"	8100-165-31R	2-1/2"	G 2-1/2" BSP-RH	183	20	50	266	66	326	95	90	167	---	75	20
	8100-165-31L	2-1/2"	G 2-1/2" BSP-LH	183	20	50	266	66	326	95	90	167	---	75	20
	8100-165-300	2-1/2"	---	183	20	50	266	66	326	95	90	167	85	---	20

** Rotor Connections: R – RH Thread, L – LH Thread, 0 – Flange Connection, Other threads connections are available upon request
Subject to technical & dimensional changes without prior notice.

8200 Series Duo-flow Rotary Unions for Steam & Hot Oil Applications



Special Design Features

- Self-supported rotary union
- Heavy duty ductile iron housing up to 2½" size
- Heat treated carbon steel rotor
- Rotation of housing is prevented by fork on housing cover
- Highly wear resistant imported Carbon Graphite bush bearings
- Bush bearings are especially suitable for thermal oil in conditions of high pressure, temperature at moderate speed
- Duo flow design
- Available in fixed inner siphon & rotating inner siphon design
- Available in both US and metric standards
- Easy installation & repairable
- Custom models are available

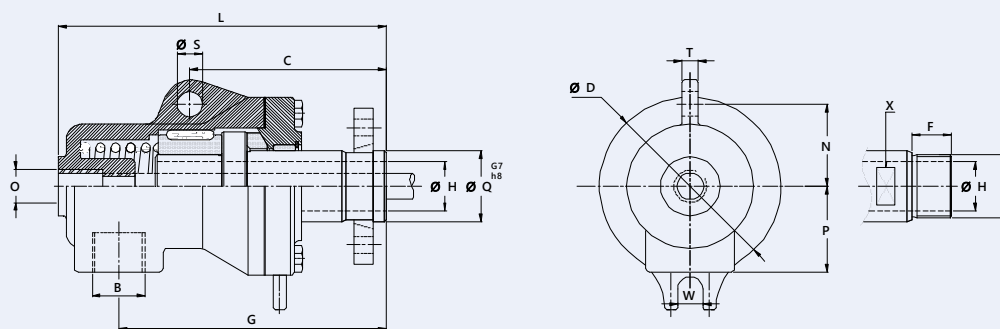
Technical Data

- | | |
|---------------------------------|-----------------|
| • Max. Water Pressure | 0.8 to 30 bar |
| • Max. Saturated Steam Pressure | 0.8 to 30 bar |
| • Max. Hot Oil Pressure | 0.8 to 10 bar |
| • Max. Temperature | - 10°C to 320°C |
| • Max. Rotor Speed for | 450 rpm |
| • Max. Flow of Media | 24 L / min |

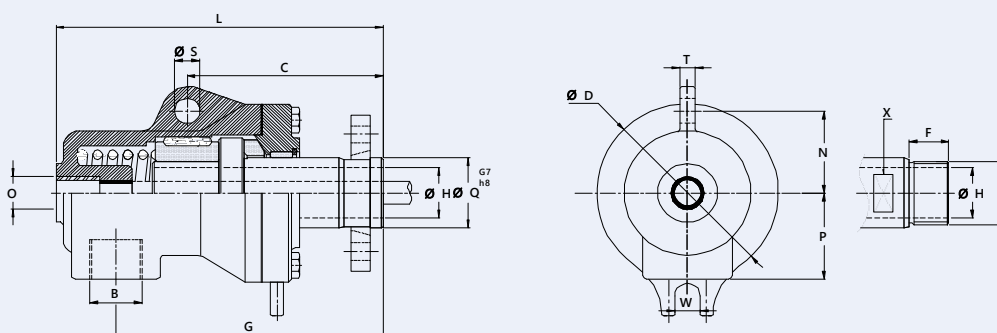
Construction of 8000 Series Rotary Unions



Duo-flow rotary union for non-rotating siphon pipe



Duo-flow rotary union for rotating siphon pipe



Size	Model No.		'B' Port Size	'R' Rotor Thread	'O' Outlet	Ø D	S	F	G	Ø H	L	N	P	C	Ø Q G7 / h8	X	W
	Stationary Siphon	Rotating Siphon															
DN 25 1"	8201-225-31R	8202-225-31R	3/4"	G 1" BSP-RH	G 3/8" BSP	98	14	29	143	25	173	55	50	105	---	30	14
	8201-225-31L	8202-225-31L	3/4"	G 1" BSP-LH	G 3/8" BSP	98	14	29	143	25	173	55	50	105	---	30	14
	8201-225-300	8202-225-300	3/4"	---	G 3/8" BSP	98	14	29	143	25	173	55	50	105	35	---	14
DN 32 1-1/4"	8201-232-31R	8202-232-31R	1"	G 1-1/4" BSP-RH	G 1/2" BSP	115	16	34	168	32	201	64	56	119	---	41	16
	8201-232-31L	8202-232-31L	1"	G 1-1/4" BSP-RH	G 1/2" BSP	115	16	34	168	32	201	64	56	119	---	41	16
	8201-232-300	8202-232-300	1"	---	G 1/2" BSP	115	16	34	168	32	201	64	56	119	45	---	16
DN 40 1-1/2"	8201-240-31R	8202-240-31R	1-1/4"	G 1-1/2" BSP-RH	G 3/4" BSP	125	16	37	184	38	224	67	67	125	---	46	16
	8201-240-31L	8202-240-31L	1-1/4"	G 1-1/2" BSP-LH	G 3/4" BSP	125	16	37	184	38	224	67	67	125	---	46	16
	8201-240-300	8202-240-300	1-1/4"	---	G 3/4" BSP	125	16	37	184	38	224	67	67	125	50	---	16
DN 50 2"	8201-250-31R	8202-250-31R	1-1/2"	G 2" BSP-RH	G 1" BSP	145	18	44	226	50	273	84	81	147	---	60	18
	8201-250-31L	8202-250-31L	1-1/2"	G 2" BSP-LH	G 1" BSP	145	18	44	226	50	273	84	81	147	---	60	18
	8201-250-300	8202-250-300	1-1/2"	---	G 1" BSP	145	18	44	226	50	273	84	81	147	66	---	18
DN 65 2-1/2"	8201-265-31R	8202-265-31R	2"	G 2-1/2" BSP-RH	G 1-1/2" BSP	183	20	50	266	66	326	95	90	167	---	75	20
	8201-265-31L	8202-265-31L	2"	G 2-1/2" BSP-LH	G 1-1/2" BSP	183	20	50	266	66	326	95	90	167	---	75	20
	8201-265-300	8202-265-300	2"	---	G 1-1/2" BSP	183	20	50	266	66	326	95	90	167	85	---	20

** Rotor Connections: R – RH Thread, L – LH Thread, 0 – Flange Connection, Other threads connections are available upon request.

Subject to technical & dimensional changes without prior notice.

8300 Series Duo-flow Rotary Unions for Steam & Hot Oil Applications



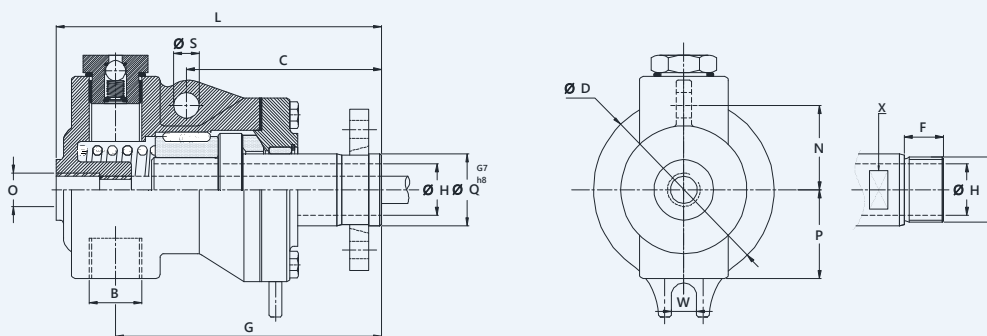
Special Design Features

- Self-supported rotary union
- Heavy duty ductile iron housing up to 2½" size
- Heat treated carbon steel rotor
- Rotation of housing is prevented by fork on housing cover
- Highly wear resistant imported Carbon Graphite bush bearings
- Bush bearings are especially suitable for thermal oil in conditions of high pressure, temperature at moderate speed
- Duo flow design
- Stationary siphon connections with Vacuum Valves
- Available in both US and metric standards
- Easy installation & repairable
- Custom models are available

Technical Data

- Max. Water Pressure 0.8 to 30 bar
- Max. Saturated Steam Pressure 0.8 to 30 bar
- Max. Hot Oil Pressure 0.8 to 10 bar
- Max. Temperature - 10°C to 320°C
- Max. Rotor Speed for 450 rpm
- Max. Flow of Media 24 L/min

Duo-flow rotary union for non-rotating siphon pipe, with vacuum breaker



Size	Model No.	'B' Port Size	'R' Rotor Thread	'O' Outlet	Ø D	S	F	G	Ø H	L	N	P	C	Ø Q G7 / h8	X	W
DN 25 1"	8300-225-31R	3/4"	G 1" BSP-RH	G 3/8" BSP	98	14	29	143	25	173	55	50	105	---	30	14
	8303-225-31L	3/4"	G 1" BSP-LH	G 3/8" BSP	98	14	29	143	25	173	55	50	105	---	30	14
	8303-225-300	3/4"	---	G 3/8" BSP	98	14	29	143	25	173	55	50	105	35	---	14
DN 32 1-1/4"	8303-232-31R	1"	G 1-1/4" BSP-RH	G 1/2" BSP	115	16	34	168	32	201	64	56	119	---	41	16
	8303-232-31L	1"	G 1-1/4" BSP-RH	G 1/2" BSP	115	16	34	168	32	201	64	56	119	---	41	16
	8303-232-300	1"	---	G 1/2" BSP	115	16	34	168	32	201	64	56	119	45	---	16
DN 40 1-1/2"	8303-240-31R	1-1/4"	G 1-1/2" BSP-RH	G 3/4" BSP	125	16	37	184	38	224	67	67	125	---	46	16
	8303-240-31L	1-1/4"	G 1-1/2" BSP-LH	G 3/4" BSP	125	16	37	184	38	224	67	67	125	---	46	16
	8303-240-300	1-1/4"	---	G 3/4" BSP	125	16	37	184	38	224	67	67	125	50	---	16

* Rotor Connections: R – RH Thread, L – LH Thread, O – Flange Connection, Other threads connections are available upon request.

Subject to technical & dimensional changes without prior notice.

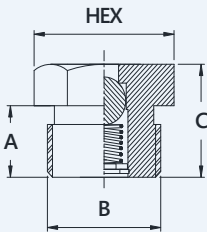


Special Design Features

- Brass material
- Available in 1/2" & 1" size
- Provide protection against damages of steam heated rolls due to occurs low pressure
- Available also separately

Technical Data

- Differiatial Pressure 0.3 bar
- Max. Temperature 160° C (320° F)



'B' Port Size	A	C	X
1/2" BSP	22	30	30
1" BSP	19	30	41

Subject to technical & dimensional changes without prior notice.

5700 Series



**Rotary Unions for
Water Service for Continuous Casting Machine**

5700 Series Rotary Unions for Continues Casting Machines (CCM)



FLUIDEN 5700 Series special designed for steel making industries and rolling mill (Continuous Casting Production Lines) machines. This series rotary unions are mainly used in water service in CCM machines. The specially designed seals are withstanding with various operating conditions, such as high temperature at low rotation speed with low friction and wear.



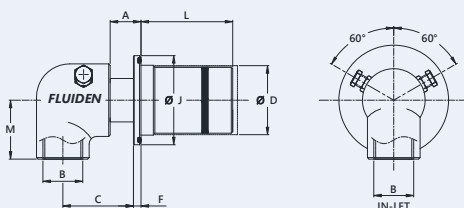
Special Design Features

- Self-supported rotary union
- Available in both Mono flow & Duo flow design
- Brass housing and elbow
- Corrosion resist stainless steel rotor
- In the shaft mounted design
- Widely spaced composite bearings
- Specially designed mechanical seals to sustain high pressure changes with minimum friction and wear for prolong service life
- Available in both US and metric standards
- Easy installation & repairable

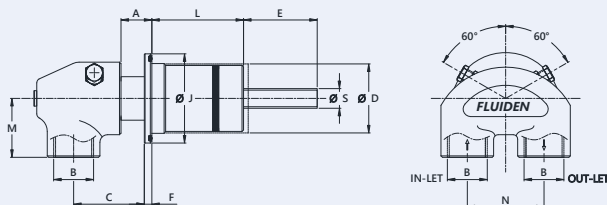
Technical Data

- Max. Water Pressure 10 bar (150 psi)
- Max. Temperature 85°C (185° F)
- Max. Rotor Speed 250 rpm

Mono-flow Design



Duo-flow Design



Model No.	'B' Port size		A	C	Ø D	E	F	Ø J	L	M	N	Ø S
5700-120-011	Mono flow	G 3/4" BSP	19	55	46.35/46.10	----	5	59	61	47	----	----
5700-120-012		3/4" NPT	19	55	46.35/46.10	----	5	59	61	47	----	----
5700-125-011		G 1" BSP	19	55	59.00/58.75	----	5	72.90	79	47	----	----
5700-125-012		1" NPT	19	55	59.00/58.75	----	5	72.90	79	47	----	----
5700-220-011	Duo flow	G 3/4" BSP	19	51	46.35/46.10	49	5	59	61	40	51	13.00/12.96
5700-220-021		G 3/4" BSP	19	51	59.00/58.75	63.5	5	72.90	79	40	51	19.00/18.95
5700-220-012		3/4" NPT	19	51	46.35/46.10	49	5	59	61	40	51	13.00/12.96
5700-220-022		3/4" NPT	19	51	59.00/58.75	63.5	5	72.90	79	40	51	19.00/18.95
5700-225-011		G 1" BSP	19	69	71.25/71.00	48	5	86	88	49	63.5	28.70/28.58
5700-225-012		1" NPT	19	69	71.25/71.00	48	5	86	88	49	63.5	28.70/28.58

Subject to technical & dimensional changes without prior notice.

Please do not operate at max. pressure combined with max. speed.

Customized Models are available on request.

5702 Series Rotary Unions for Continues Casting Machines (CCM)



FLUIDEN 5702 Series special designed for steel making industries and rolling mill (Continuous Casting Production Lines) machines. This series rotary unions are mainly used in water service in CCM machines. The specially designed seals are withstanding with various operating conditions, such as high temperature at low rotation speed with low friction and wear.



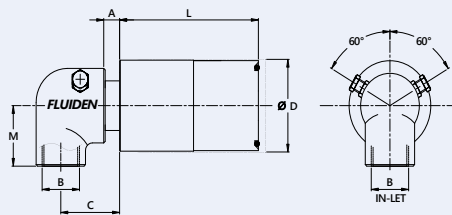
Special Design Features

- Self-supported rotary union
- Available in both Mono flow & Duo flow design
- Brass housing and elbow
- Corrosion resist stainless steel rotor
- In the shaft mounted design
- Widely spaced composite bearings
- Specially designed mechanical seals to sustain high pressure changes with minimum friction and wear for prolong service life
- Available in both US and metric standards
- Easy installation & repairable

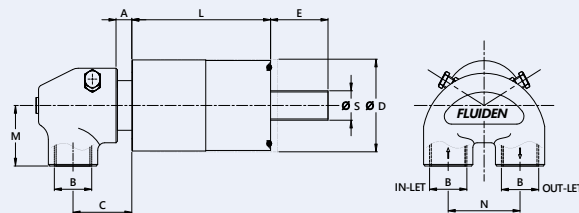
Technical Data

- Max. Water Pressure 10 bar (150 psi)
- Max. Temperature 85°C (185° F)
- Max. Rotor Speed 250 rpm

Mono-flow Design



Duo-flow Design



Model No.		'B' Port size	A	C	Ø D	E	F	L	M	N	Ø S
5702-125-021	Mono flow	G1" BSP	17	45	46.35/46.10	---	38	80.92	47	---	---
5702-125-021		G1" BSP	17	45	46.35/46.10	---	38	80.92	47	---	---
5702-125-012		1" NPT	17	45	59.00/58.75	---	32	56.23	47	---	---
5702-125-022		1" NPT	17	45	59.00/58.75	---	38	80.92	47	---	---
5702-220-011	Duo flow	G3/4" BSP	17	43	46.35/46.10	57	32	56.23	40	51	13.00/12.96
5702-220-021		G3/4" BSP	17	43	59.00/58.75	57	38	80.92	40	51	19.00/18.95
5702-220-012		3/4" NPT	17	43	46.35/46.10	57	32	56.23	40	51	13.00/12.96
5702-220-022		3/4" NPT	17	43	59.00/58.75	57	38	80.92	40	51	19.00/18.95
5702-225-011		G 1" BSP	23	67	71.25/71.00	55	54	82.72	47	63.5	28.70/28.58
5702-225-021		1" NPT	23	67	71.25/71.00	55	54	82.72	47	63.5	28.70/28.58

Subject to technical & dimensional changes without prior notice.

Please do not operate at max. pressure combined with max. speed.

Customized Models are available on request.

2000 Series



**Rotary Unions for
Air- Hydraulic & Vacuum Service**

2100 Series Rotary Unions for Air, Vacuum & Hydraulic Service

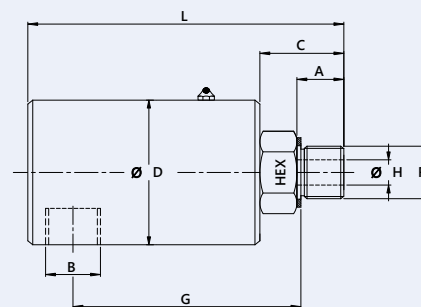


Special Design Features

- Self-supported rotary union
- Aluminium housing
- Stainless steel threaded rotor
- Highly precise and lubricated bearings for long life
- Specially designed mechanical seals to sustain high pressure changes with minimum friction and wear for prolong service life
- Designed for both axial and radial application
- Available in both US and metric thread standards
- Easy installation

Technical Data

- Max. Air Pressure 10 bar (145 psi)
- Max. Vacuum Pressure 2" Hg (6.7 kPa)
- Max. Hydraulic Pressure for :-
- Size- 1/8", 1/4", 3/8" 70 bar (1,000 PSI)
- Size- 1/2" 50 bar (750 PSI)
- Size- 1/2" 70 bar (1,000 PSI)
- Max. Temperature 70°C (160° F)
- Max. Rotor Speed (NPT Threads) 3,500 rpm
- Max. Rotor Speed (Parallel Threads) 1,500 rpm

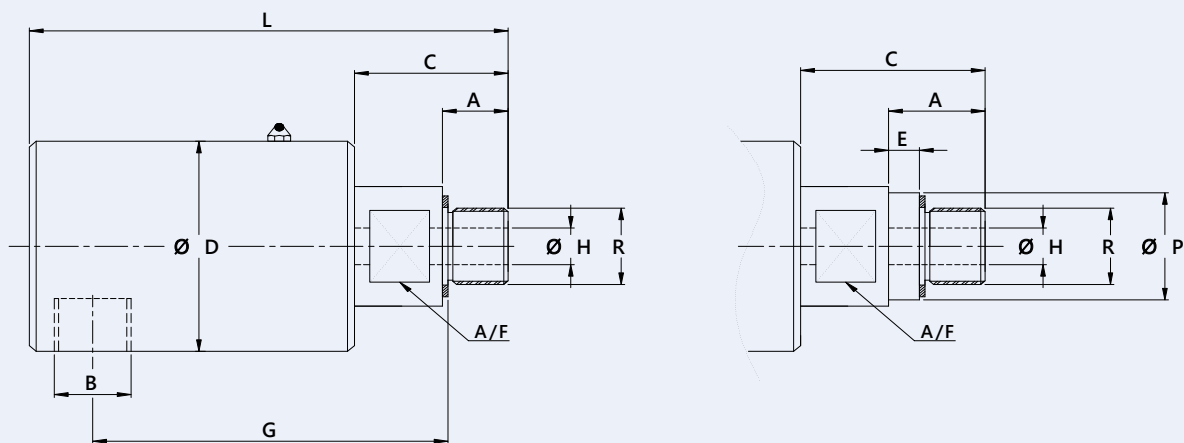


Size	Model No.	'B' Port Size	'R' Rotor Thread	A	C	Ø D	G	Ø H	L	HEX
DN 6	2100-106-011R	1/8"	1/4" BSP - RH	13	22	28.5	52	3.2	71.5	16
	2100-106-012L		1/8" NPT - LH	11	22	28.5	52	3.2	71.5	16
	2100-106-014R		3/8"-24 UNF - RH	13	22	28.5	52	3.2	71.5	16
	2100-106-014L		3/8"-24 UNF - LH	13	22	28.5	52	3.2	71.5	16
	2100-106-013R		M 10 X 1 - RH	11	22	28.5	54	3.2	71.5	16
DN 8	2100-108-011R	1/4"	1/4" BSP - RH	13	29	41.5	60	6.4	81	22.2
	2100-108-011L		1/4" BSP - LH	13	29	41.5	60	6.4	81	22.2
	2100-108-012R		1/4" NPT - RH	16	28.6	41.5	62.5	6.4	81	22.2
	2100-108-012L		1/4" NPT - LH	16	28.6	41.5	62.5	6.4	81	22.2
	2100-108-014R		5/8" - 18 UNF - RH	16	28.6	41.5	57	6.4	81	22.2
	2100-108-014L		5/8" - 18 UNF - LH	16	28.6	41.5	57	6.4	81	22.2
DN 10	2100-110-011R	3/8"	3/8" BSP - RH	16.5	27	43.5	71.5	8.7	100	24
	2100-110-012R		1/4" NPT - RH	16	27	43.5	79.5	9.5	100	24
	2100-110-112R		3/8" NPT - RH	16	27	43.5	79.5	9.5	100	24
	2100-110-014R		5/8" - 18 UNF - RH	16	27	43.5	72.2	9.5	100	24
	2100-110-014L		5/8" - 18 UNF - LH	16	27	43.5	72.2	9.5	100	24
	2100-110-013R		M 16 X 2 - RH	16.5	27	43.5	72.2	8.7	100	24
DN 15	2100-115-011R	1/2"	1/2" BSP - RH	19	33.3	57	77.5	12.7	113	28.5
	2100-115-011L		1/2" BSP - LH	19	33.3	57	77.5	12.7	113	28.5
	2100-115-111R		3/4" BSP - RH	19	32.5	57	77	15.8	112	35
	2100-115-111L		3/4" BSP - LH	19	32.5	57	77	15.8	112	35
	2100-115-012R		1/2" NPT - RH	22.2	36.5	57	89	12.7	116	28.5
	2100-115-012L		1/2" NPT - LH	22.2	36.5	57	89	12.7	116	28.5
	2100-115-112R		3/4" NPT - RH	22.2	36.5	57	88	15.8	116	28.5
	2100-115-112L		3/4" NPT - LH	22.2	36.5	57	88	15.8	116	28.5
	2100-115-014R		3/4" - 16 UNF - RH	19	33.3	57	77.5	12.7	112.5	28.5
	2100-115-014L		3/4" - 16 UNF - LH	19	33.3	57	77.5	12.7	112.5	28.5
	2100-115-013R		M 35 X 1.5 - RH	15	38	73	96	17.5	125.5	41
	2100-115-013L		M 35 X 1.5 - RH	15	38	73	96	17.5	125.5	41
	2100-115-015R		1" - 14 UNS - RH	19	32.5	51	77	15.8	112	35
	2100-115-015L		1" - 14 UNS - LH	19	32.5	51	77	15.8	112	35

Subject to technical & dimensional changes without prior notice.

Please do not operate at max. pressure combined with max. speed.

Customized models are available on request.



Size	Model No.	'B' Port Size	'R' Rotor Thread	A	C	Ø D	E	G	Ø H	L	Ø P Pilot Dia.	A/F
DN 20	2100-120-011R	3/4"	G 3/4" BSP-RH	19	34	72.5	---	94	17.5	128	---	32
	2100-120-011L		G 3/4" BSP-LH	19	34	72.5	---	94	17.5	128	---	32
	2100-120-012R		3/4" NPT-RH	22	36.5	72.5	---	103	19.5	130	---	32
	2100-120-012L		3/4" NPT-LH	22	36.5	72.5	---	103	19.5	130	---	32
	2100-010-013R-P		M 22 X 1.5-RH-PLT	14	28	72.5	3	87.5	14.3	87.5	26.992/26.979	32
	2100-010-013L-P		M 22 X 1.5-LH-PLT	14	28	72.5	3	87.5	14.3	87.5	26.992/26.979	32
	2100-010-113R-P		M 27 X 1.5-RH-PLT	15	35	72.5	6	91	17.5	129	27.993/27.980	36
	2100-010-113L-P		M 27 X 1.5-LH-PLT	15	35	72.5	6	91	17.5	129	27.993/27.980	36
	2100-120-113R		M 35 X 1.5-RH	15	38	72.5	---	101	17.5	131	---	41
	2100-120-113L		M 35 X 1.5-LH	15	38	72.5	---	101	17.5	131	---	41
	2100-120-015R		1" - 14 UNS-RH	19	33	72.5	---	93.6	16.7	127	---	32
	2100-120-015L		1" - 14 UNS-LH	19	33	72.5	---	93.6	16.7	127	---	32
	2100-120-115R-P		1" - 14 UNS-RH-PLT	19	54	72.5	12.7	101.5	16	147.5	31.699/31.694	41
	2100-120-115L-P		1" - 14 UNS-LH-PLT	19	54	72.5	12.7	101.5	16	147.5	31.699/31.694	41
DN 25	2100-125-011R	1"	G 1" BSP-RH	21	42	82.6	---	108	22.2	150	---	38
	2100-125-011L		G 1" BSP-LH	21	42	82.6	---	108	22.2	150	---	38
	2100-125-012R		1" NPT-RH	28.5	49	82.6	---	122	25.4	157	---	38
	2100-125-012L		1" NPT-LH	28.5	49	82.6	---	122	25.4	157	---	38
	2100-125-013R		M 35 X 1.5-RH	15	35	83	---	108	25	144	---	36
	2100-125-013L		M 35 X 1.5-LH	15	35	83	---	108	25	144	---	36
	2100-125-113R-P		M 35 X 1.5-RH-PLT	29	59	83	12	103	25	167	39.991/39.975	36
	2100-125-113L-P		M 35 X 1.5-LH-PLT	29	59	83	12	103	25	167	39.991/39.975	36
	2100-125-014R		1-1/2" - 12 UNF-RH	28.5	49	82.6	---	108	25.4	157	---	38
	2100-125-014L		1-1/2" - 12 UNF-LH	28.5	49	82.6	---	108	25.4	157	---	38
	2100-125-114-P		1-1/2" - 12 UNF-RH-PLT	25.5	58.7	82.6	12.7	106.5	25.4	166.5	39.649/39.636	38
	2100-125-114-P		1-1/2" - 12 UNF-LH-PLT	25.5	58.7	82.6	12.7	106.5	25.4	166.5	39.649/39.636	38
DN 40	2100-140-011R	1-1/2"	G 1-1/2" BSP-RH	29	72	108	---	143	35	205	---	54
	2100-140-011L		G 1-1/2" BSP-LH	29	72	108	---	143	35	205	---	54
	2100-140-012R		1-1/2" NPT-RH	30	62	108	---	147.5	38	195	---	54
	2100-140-012L		1-1/2" NPT-LH	30	62	108	---	147.5	38	195	---	54
	2100-140-013R		M 50 X 1.5-RH	23	66	108	---	147	38	200	---	54
	2100-140-013L		M 50 X 1.5-LH	23	66	108	---	147	38	200	---	54
	2100-140-016R		1-3/4" - 12 UN-RH	22	81	108	---	159	32	214	---	54
	2100-140-016L		1-3/4" - 12 UN-LH	29	72	108	---	143	35	205	---	54
	2100-140-116R		2" - 12 UN-RH	28.5	71.5	108	---	143	38	205	---	54
	2100-140-116L		2" - 12 UN-LH	28.5	71.5	108	---	143	38	205	---	54

Subject to technical & dimensional changes without prior notice

Please do not operate at max. pressure combined with max. speed

Customized models are available on request.

2200 Series Deu-plex Rotary Unions for Air, Vacuum & Hydraulic Service

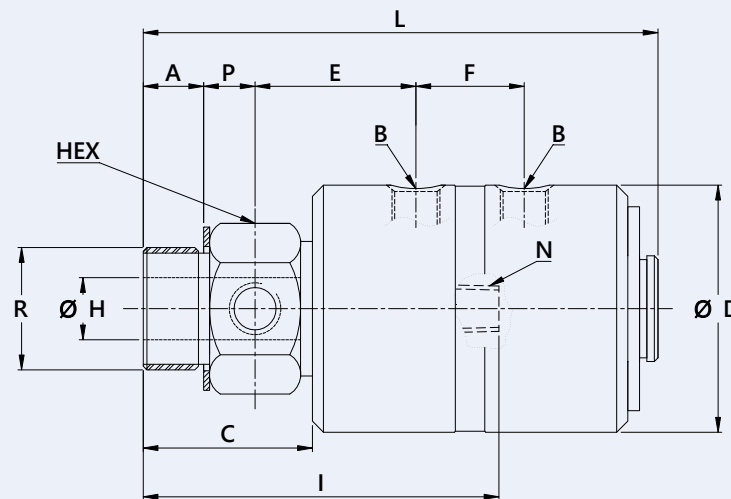


Special Design Features

- Self-supported rotary union
- Aluminium housing
- Stainless steel threaded rotor
- Bearing made from special material
- Duo flow design
- Specially designed mechanical seals
- Available in both US and metric thread standards
- Easy installation

Technical Data

- Max. Pressure 10 bar (150 psi)
- Max. Vacuum Pressure 2" Hg (6.7 kPa)
- Max. Hydraulic Pressure 210 bar (3,050 psi)
- Max. Temperature 120°C (250° F)
- Max. Rotor Speed 230 rpm



Size	Model No.	'B' Port Size	'R' Rotor Thread	A	C	Ø D	E	F	G	Ø H	I	L	M	N	P	HEX
2 x DN 8	2200-208-11R	2 X 1/4"	1" BSP	28	55.5	66.5	42.9	29.5	67.8	7.9	---	150	1/4" NPT	1/4" NPT	19	44.4
	2200-208-11**	2 X 1/4"	1" BSP	28	55.5	66.5	42.9	29.5	67.8	17.4	96	150	1/4" NPT	1/4" NPT	19	44.4
	2200-208-12R	2 X 1/4"	1" NPT	28	55.5	66.5	42.9	29.5	66.7	7.9	---	150	1/4" NPT	1/4" NPT	15	44.4
	2200-208-12**	2 X 1/4"	1" NPT	28	55.5	66.5	42.9	29.5	66.7	17.4	96	150	1/4" NPT	1/4" NPT	15	44.4
2 x DN 15	2200-215-11R	2 X 1/2"	1-1/4" BSP	28	63	76	66.9	42	84.2	16	---	208	1/2" NPT	1/2" NPT	17.5	55
	2200-215-11**	2 X 1/2"	1-1/4" BSP	28	63	76	66.9	42	84.2	27	129	208	1/2" NPT	1/2" NPT	17.5	55
	2200-215-12R	2 X 1/2"	1-1/4" NPT	28	63	76	66.9	42	95.25	16	---	208	1/2" NPT	1/2" NPT	17.5	50.8
	2200-215-12**	2 X 1/2"	1-1/4" NPT	28	63	76	66.9	42	95.25	27	129	208	1/2" NPT	1/2" NPT	17.5	50.8
2 x DN 20	2200-220-11R	2 X 3/4"	1-1/2" BSP	30	66.5	89	69.9	48.5	91.2	20.6	---	225.5	3/4" NPT	3/4" NPT	19.5	63.5
	2200-220-11**	2 X 3/4"	1-1/2" BSP	30	66.5	89	69.9	48.5	91.2	34.9	147.5	225.5	3/4" NPT	3/4" NPT	19.5	63.5
	2200-220-12R	2 X 3/4"	1-1/2" NPT	30	66.5	89	69.9	48.5	104	20.6	---	225.5	3/4" NPT	3/4" NPT	19.5	63.5
	2200-220-12**	2 X 3/4"	1-1/2" NPT	30	66.5	89	69.9	48.5	104	34.9	147.5	225.5	3/4" NPT	3/4" NPT	19.5	63.5

(**) Indicated models are supplying without inner rotors

Subject to technical & dimensional changes without prior notice.

Please do not operate at max. pressure combined with max. speed.

Customized models are available on request.

2300 Series High Speed & High Pressure Rotary Unions for Hydraulic Oil & Water Service



Special Design Features

- Self-supported rotary union
- Mono flow design
- Stainless steel housing to resist corrosion from media
- Stainless steel back cover and threaded rotor
- All components are made of steel and corrosion resist
- Highly precise and lubricated dual row ball bearings for long life and stable rotation at very high speed
- Specially designed mechanical seals to sustain high pressure with high speed changes with minimum friction and wear for prolong service life
- Available in both US and metric thread standards
- Easy installation

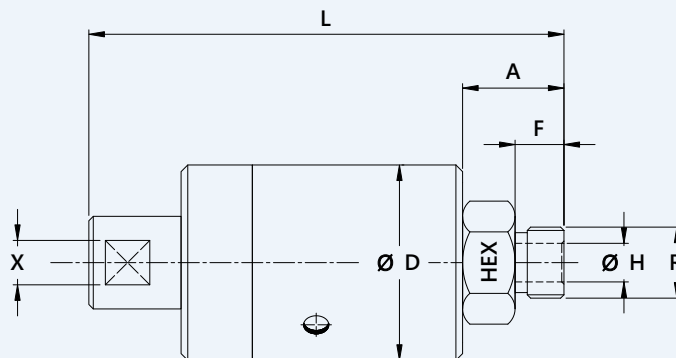
Technical Data

- Max. Hydraulic Oil Pressure 395 bar (5,700 psi)
- Max. Water Pressure 395 bar (5,700 psi)
- Max. Temperature 90°C (195° F)
- Max. Rotor Speed 1,500 rpm

Seal Face Combinations for High Performance

- Silicon Carbide to Silicon carbide
- Tungsten Carbide to Tungsten Carbide

DN 8 -25 Monoflow High Pressure and Speed Rotary Unions



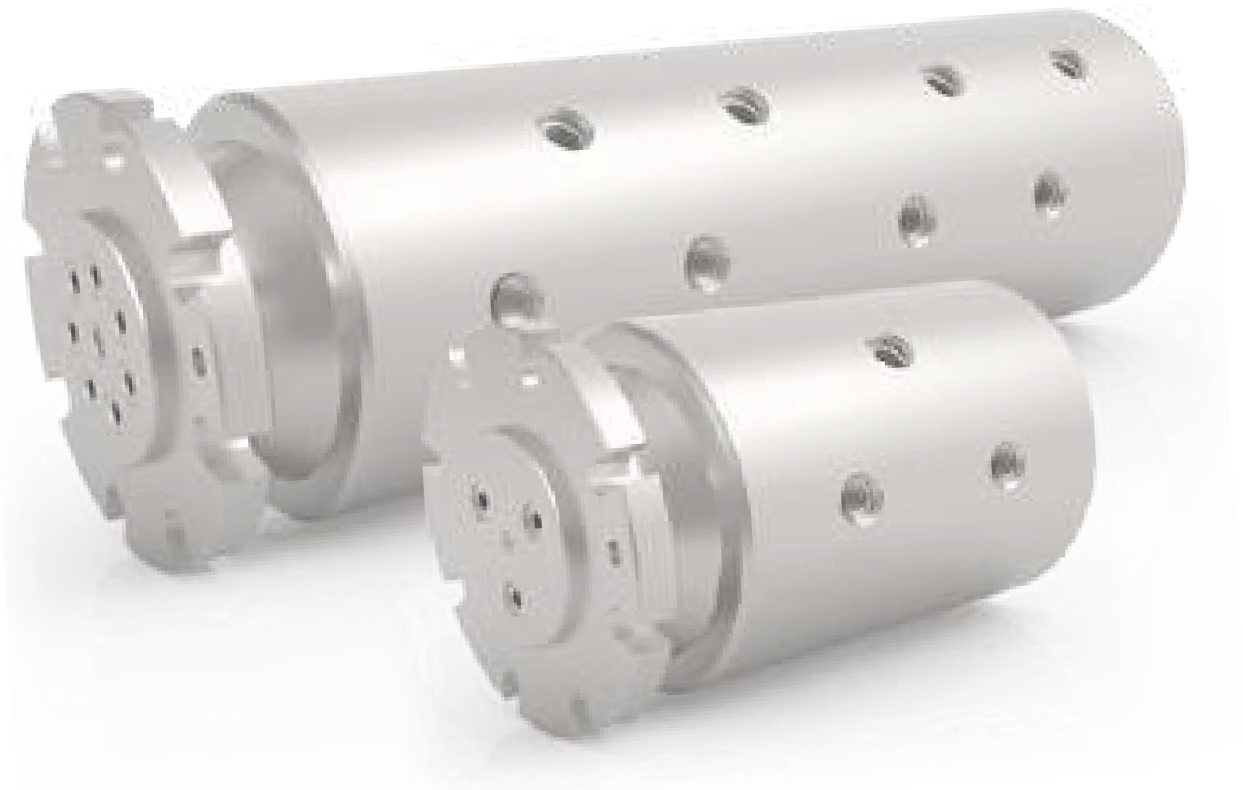
Size	Model No.	'B' Port Size	'R' Rotor Thread	A	F	L	Ø D	Ø H	HEX	X
DN 8	2300-108-111	1/4"	1/4" BSP - RH	26	15	118	50	7	27	10
	2300-108-112		1/4" BSP - LH	26	15	118	50	7	27	10
DN 10	2300-110-111	3/8"	3/8" BSP - RH	26	15	118	50	10	27	10
	2300-110-112		3/8" BSP - LH	26	15	118	50	10	27	10
DN15	2300-115-111	1/2"	1/2" BSP- RH	30	20	122	50	12	30	10
	2300-115-112		1/2" BSP- LH	30	20	122	50	12	30	10
DN 20	2300-120-111	3/4"	3/4" BSP - RH	44	24	161	96	18	48	10
	2300-120-112		3/4" BSP - LH	44	24	161	96	18	48	10
DN 25	2300-125-111	1"	1" BSP - RH	44	24	161	96	24	48	10
	2300-125-112		1" BSP - LH	44	24	161	96	24	48	10

Subject to technical & dimensional changes without prior notice.

Please do not operate at max. pressure combined with max. speed.

Customized models are available on request.

5500 Series



**Multi Passages Rotary Unions for
Multi Media Water, Air, Hydraulic Oil**

5500 Series Multi-Passage, Multi-Purpose, Multi-Media Rotary Unions



Multi-passage rotary unions are using for more than one operating media are used simultaneously. It is a self-supported rotary union. The multi-passage rotary union provides multiple, independent passages, each with a different rotating inlet ports, but lays same axis.

The multiple independent passages permit the flow of the same or different kind of operating media from rotating equipment. A multi-passage rotary union are including various media likes hydraulic fluids, air, coolant etc. The sealing technology selected is dependent on the media and operating conditions, such as temperature, pressure, speed, and passage size. The very special designed seals and the hardened steel rotor permits to operate at high fluid pressure and low rotation speed with low friction and wear.

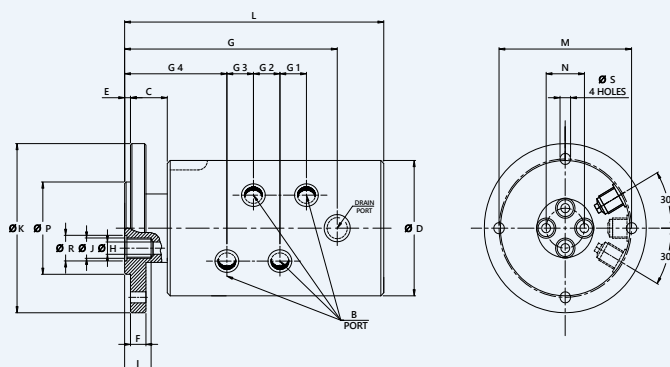
Special Design Features

- Multi Passage design for multi-media application
- Self-supported rotary union
- Brass housing for water service
- Aluminium housing for air service
- Carbon steel housing for hydraulic oil service
- Corrosion resist stainless steel flanged rotor
- Widely spaced highly precise and lubricated heavy duty ball bearings for long life and stable rotation
- Specially designed mechanical seals to sustain high pressure changes with minimum friction and wear for prolong service life
- Dynamic carbon Teflon sealing design
- Available in both US and metric standards
- Easy installation
- Custom connections types are available



Technical Data

- Max. Air Pressure 10 bar (145 psi)
- Max. Vacuum Pressure 2" Hg (6.7 kPa)
- Max. Hydraulic Pressure for
- High Speed Operation..... 60 bar (860 psi)
- Low Speed Operation..... 245 bar (3500 psi)
- Max. Temperature 80°C (175° F)
- Max. Rotor Speed 250 rpm



5500 Series

Size	Model No.	"B" Port Size	C	Ø D	E	F	G	G 1	G 2	G 3	G 4	Ø H	I	Ø J	Ø K	L	M	N	Ø P Pilot Dia.	Ø R	Ø S
4 X DN 10	5500-410-01	4X3/8" BSP	24.5	88.7	4	10.7	142	18	26	18	72	12.05 12.00	12	9	110	175.8	90	24.6	60.00 59.98	16.7	7.5
	5500-410-02	4X3/8" NPT	24.5	88.7	4	10.7	142	18	26	18	72	12.05 12.00	12	9	110	175.8	90	24.6	60.00 59.98	16.7	7.5
4 X DN 15	5500-415-01	4X1/2" BSP	24.5	107.5	4	13.7	169	23	32	23	81	15.05 15.00	15	13	130	202.5	110	29	75.00 74.98	19.7	9
	5500-415-02	4X1/2" NPT	24.5	107.5	4	13.7	169	23	32	23	81	15.05 15.00	15	13	130	202.5	110	29	75.00 74.98	19.7	9

Subject to technical & dimensional changes without prior notice.
Please do not operate at max. pressure combined with max. speed.


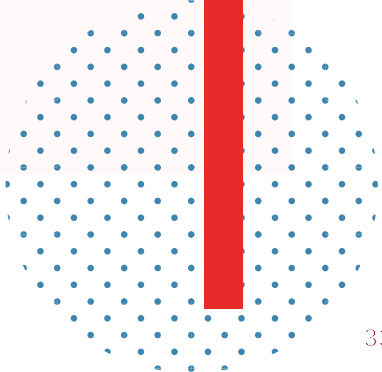
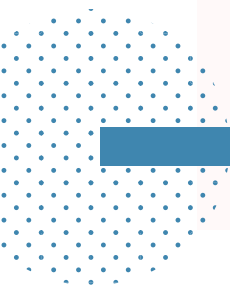



CUSTOM DESIGN PHILOSOPHY

STANDARD & CUSTOMIZED SOLUTIONS FOR SPECIAL WORKING CONDITIONS AND DIMENSIONS

Whatever your application needs are, we offer a wide range of standard models of Rotary Unions and customized models of Rotary Unions to fit your media type, pressure, speed and temperature requirements...

*.....Fill the form below, we are fully appreciate
your requirements and passionate to fulfill within*



SIZE : or **FLOW RATE :**

CONNECTION TYPE : **THREADED SHAFT** ☐ **FLANGE SHAFT** ☐

IF THREADED SHAFT; SIZE : **THREAD TYPE** ☐ NPT ☐ BSP ☐ BSPP ☐ UNF ☐ METRIC

DIRECTION ☐ RIGHT HAND ☐ LEFT HAND

PRESSURE : **BAR** or **PSI**

TEMPERATURE: °C or °F

Does pressure or temperature change during operation? If yes, please give max. and min. and describe:

[illegible]

Any information about the application? Send drawing if possible.

.....

.....

.....

34

FLUIDEN CO. (INDIA)

(AN ISO 9001:2015 COMPANY)



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www.fluidenrotaryunions.com
www.throughspindlecoolantunions.com



FLUIDEN

Assurance for Excellence



1000 Series

Rotary Unions

for

For CNC Machine Tools, VMC & HMC Machines , Gun Drill Machines, Rotary Index Tables

www.fluidenrotaryunions.com

FLUIDEN 1000 SERIES

FOR HIGH SPEED MACHINE TOOLS COOLANT APPLICATIONS

The **FLUIDEN 1000** series coolant rotary unions models are precisely designed for transferring coolant through the very high speed rotating spindle.

In Machine tools systems the supply of coolant through the high speed rotating spindle, which has following advantages over conventional cooling system where tool tips have been cooled by supplying coolant from an external source. In some processes this method of cooling does not provide optimum performance and decreases the service life of the cutting tools tips in the case of combined high speed rotation and pressure. At the end of results, the temperature will be increased at the cutting tool tip and the service life of the cutting tool is decreasing over the time. This **FLUIDEN 1000** series coolant rotary union models are specially designed for cooling the tool tips of cutting tool.

FLUIDEN 1000 series coolant rotary union models are utilized in the machine tool industries for,

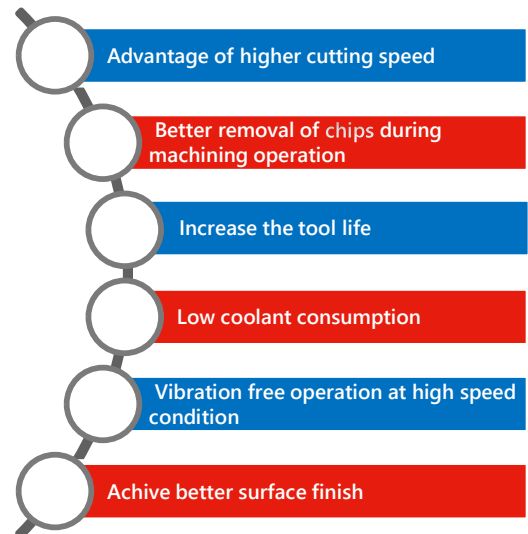
- Machine Tools
- CNC Machines
- Vertical & Horizontal Machining Center
- Drilling Machines
- Gun Drills
- Spindles
- Grinding Machines
- Rotary Index Table & Transfer Lines

The seals are designed well balanced and micro lapped which is always remains closed without remain any problems when with wet run or dry run operating conditions. Balanced seals are also allowing a low friction torque and a very long life to withstand for poor quality filtration of coolant. This very special designed rotary coolant union allows minimizing the space required for their installation. In additions to this special design features these unions are must increase the tool life even operating at high speed rotating speed, high pressure & high temperature.

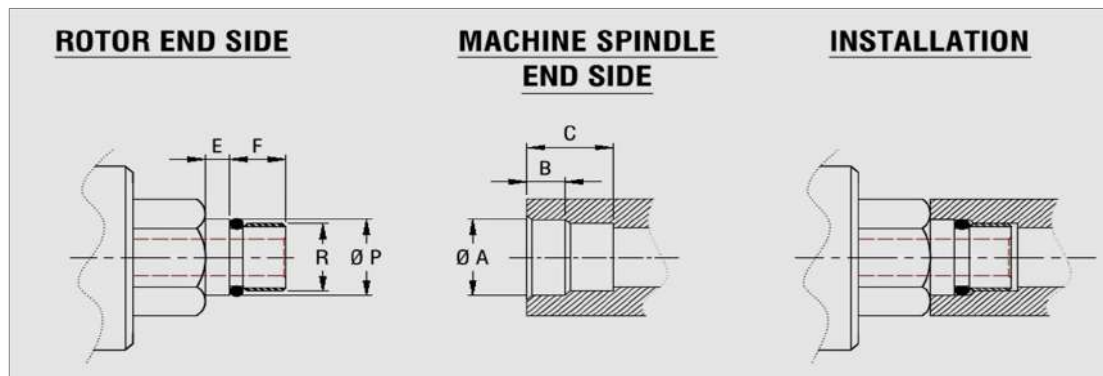
The **FLUIDEN 1000** series coolant rotary unions models are capable to withstand typical operating conditions are as following:

Models	Operating Pressure	Operating Temperature	Machine Spindle Speed
1009	1,500 PSI (105 BAR)	160°F (70°C)	20,000 RPM
1902	1,000 PSI (70 BAR)	160°F (70°C)	12,000 RPM
1090	1,500 PSI (105 BAR)	160°F (70°C)	15,000 RPM
1080	1,500 PSI (105 BAR)	160°F (70°C)	15,000 RPM
1008	1,500 PSI (105 BAR)	160°F (70°C)	20,000 RPM
1001	1,500 PSI (105 BAR)	160°F (70°C)	15,000 RPM
1016	1,000 PSI (70 BAR)	160°F (70°C)	12,000 RPM

In additions of above parameters followings are the advantages of **FLUIDEN 1000** series....



Mounting Examples of Coolant Rotary Unions in Machine Tools



Rotor End Side Sizes				Machine Spindle End Side Sizes		
R	Ø P	E	F	Ø A	B	C
M 16 X 1.5	17.993	5	11	18.000	8.5	17
	17.988			17.995		
	16.025	5	11	16.037	7	17
	16.020			16.027		
5/8"-18 UNF	16.649	4.7	14	16.662	7	20.6
	16.644			16.652		
	15.872	2.4	14	15.885	4.7	14.3
	15.864			15.875		

** Other rotor end & thread sizes are available as per machine spindle end sizes

Following are some important parameters required for better selection of coolant rotary unions...

- ✓ Space availability for mounting the rotary union properly (Maximum length & diameter...)
- ✓ Media type of using coolant (Water based Coolant, Cutting Oil, Hydraulic Oil, Dry air...)
- ✓ Position of machine tool spindle (Horizontal, Vertical...)
- ✓ Maximum operating pressure...
- ✓ Maximum operating temperature...
- ✓ Maximum rotor speed...
- ✓ Request to provide sample drawing for any equivalent make...

“ In addition to above parameters, *FLUIDEN* make rotary unions are ideal for new installations as well as directly interchangeable with any other brands of coolant rotary unions ”



Special Design Features

- Self-supported rotary union
- Aluminium anodized housing to resist corrosion from media
- Stainless steel threaded rotor
- Highly precise and lubricated deep groove ball bearings for long life and stable rotation at very high speed
- Specially designed mechanical seals to sustain high pressure changes with minimum friction and wear for prolong service life
- Designed for both axial and radial application
- Available in both US and metric thread standards
- Easy installation

Technical Data

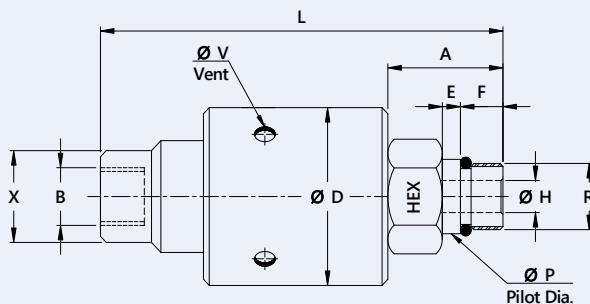
- Max. Pressure 105 bar (1,520 psi)
- Max. Temperature 70°C (160° F)
- Max. Rotor Speed 15,000 rpm
- Max. Flow of Media 20 L / min



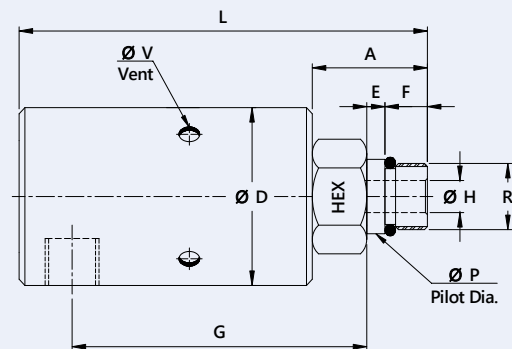
NO DRY RUN

FLUIDEN 1001 series coolant rotary unions are ideal for new installations as well as directly interchangeable with any other brands of coolant rotary unions

Axial Model (180°)



Radial Model (90°)



Model No.	'B' Port Size	'R' Rotor Thread	A	F	E	G	L	Ø D	Ø H	Ø P Pilot Dia.	V	HEX	X
1001-108-302	G 3/8" BSP	M 16 X1.5 LH	30	11	5	----	97	43	6	17.994 / 17.976	9	24	22.2
1001-208-302	3/8" NPT	M 16 X1.5 LH	30	11	5	----	97	43	6	17.994 / 17.976	9	24	22.2
1001-208-002	3/8" NPT	M 10 X 1 LH	27	11	3	----	94	43	3.2	17.994 / 17.976	9	24	22.2
1001-208-401	3/8" NPT	5/8"-18 UNF RH	33.3	14	4.7	----	100	43	6	16.650 / 16.645	9	24	22.2
1001-208-402	3/8" NPT	5/8"-18 UNF LH	33.3	14	4.7	----	100	43	6	16.650 / 16.645	9	24	22.2
1001-108-392	G 3/8" BSP	M 16 X1.5 LH	30	11	5	68	97	43	6	17.993 / 17.976	9	24	----
1001-208-392	3/8" NPT	M 16 X1.5 LH	33.3	11	5	68	97	43	6	17.994 / 17.976	9	24	----

Subject to technical & dimensional changes without prior notice.

Please do not operate at max. pressure combined with max. speed.

Customized models are available on request.



Special Design Features

- Self-supported rotary union
- Aluminium anodized housing to resist corrosion from media
- Stainless steel threaded rotor
- Highly precise and lubricated deep groove ball bearings for long life and stable rotation at very high speed
- Specially designed mechanical seals to sustain high pressure changes with minimum friction and wear for prolong service life
- Designed for both axial and radial application
- Available in both US and metric thread standards
- Easy installation

Technical Data

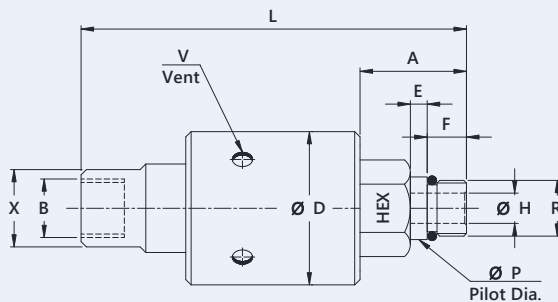
- Max. Pressure 70 bar (1,015 psi)
- Max. Temperature 70°C (160° F)
- Max. Rotor Speed 12,000 rpm
- Max. Flow of Media 80 L / min



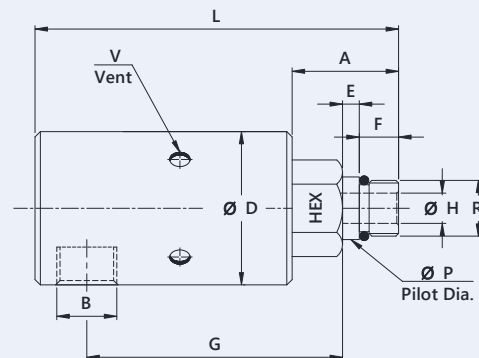
NO DRY RUN

FLUIDEN 1016 series coolant rotary unions are ideal for new installations as well as directly interchangeable with any other brands of coolant rotary unions

Axial Model (180°)



Radial Model (90°)



Model No.	'B' Port Size	'R' Rotor Thread	A	F	E	L	G	Ø D	Ø H	Ø P Pilot Dia.	V	HEX	X
1016-110-302	G 3/8" BSP	M 16X1.5 LH	30	11	5	114	----	44	9	17.993/17.975	9	24	22
1016-210-302	3/8" NPT	M 16X1.5 LH	30	11	5	114	----	44	9	17.993/17.975	9	24	22
1016-210-401	3/8" NPT	5/8"-18 UNF RH	33.3	14	4.7	115	----	44	9	16.650/16.644	9	24	22
1016-210-402	3/8" NPT	5/8"-18 UNF LH	33	14	4.7	115	----	44	9	16.650/16.644	9	24	22
1016-108-302	G 1/4" BSP	M 16X1.5 LH	30	11	5	114	----	44	9	17.993/17.975	9	24	22
1016-208-302	1/4" NPT	M 16X1.5 LH	30	11	5	114	----	44	9	17.993/17.975	9	24	22
1016-208-401	G 1/4" NPT	5/8"-18 UNF RH	33.3	14	4.7	115	----	44	9	16.650/16.644	9	24	22
1016-208-402	1/4" NPT	5/8"-18 UNF LH	33.3	14	4.7	115	----	44	9	16.650/16.644	9	24	---
1016-110-392	G 3/8" BSP	M 16X1.5 LH	30	11	5	114	71.3	44	9	17.993/17.975	9	24	---
1016-210-392	3/8" NPT	M 16X1.5 LH	30	11	5	114	71.3	44	9	17.993/17.975	9	24	---
1016-210-491	3/8" NPT	5/8"-18 UNF RH	33.3	14	4.7	115	71.3	44	9	16.650/16.644	9	24	---
1016-210-492	3/8" NPT	5/8"-18 UNF LH	33.3	14	4.7	115	71.3	44	9	16.650/16.644	9	24	---

Subject to technical & dimensional changes without prior notice.

Please do not operate at max. pressure combined with max. speed.

Customized models are available on request.



Special Design Features

- Self-supported rotary union
- Aluminium anodized housing to resist corrosion from media
- Stainless steel threaded rotor
- Highly precise and lubricated angular contact ball bearings for long life and stable rotation at very high speed
- Specially designed mechanical seals to sustain high pressure changes with minimum friction and wear for prolong service life
- Designed for both axial and radial application
- Available in both US and metric thread standards
- Easy installation

Technical Data

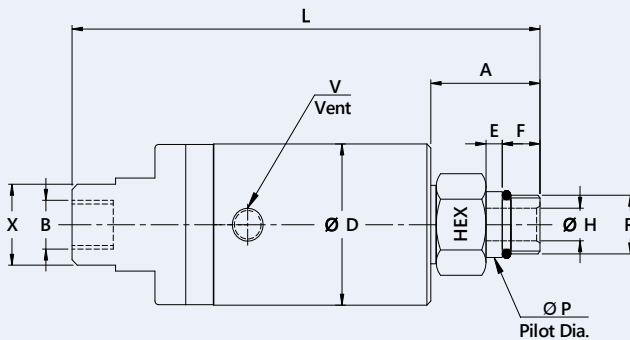
- Max. Pressure 105 bar (1,520 psi)
- Max. Temperature 70°C (160° F)
- Max. Rotor Speed 20,000 rpm
- Max. Flow of Media 80 L / min



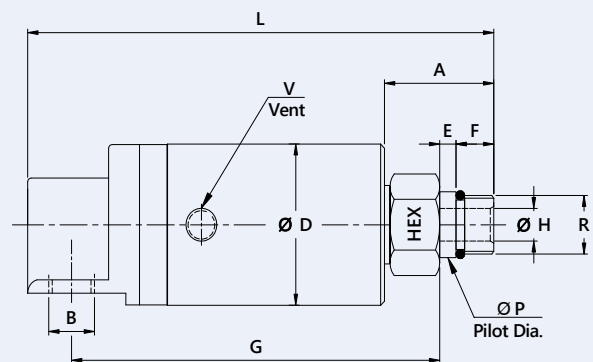
NO DRY RUN

FLUIDEN 1008 series coolant rotary unions are ideal for new installations as well as directly interchangeable with any other brands of coolant rotary unions

Axial Model (180°)



Radial Model (90°)



Model No.	'B' Port size	'R' Rotor Thread	A	E	F	G	L	Ø D	Ø H	Ø P Pilot Dia.	V	HEX	X
1008-108-302	1/4" BSP	M 16X1.5 LH	30	5	11	130	----	53	9	17.993/17.975	G 1/4" BSP	24	22
1008-208-302	1/4" NPT	M 16X1.5 LH	30	5	11	130	----	44	9	17.993/17.975	Ø 9	24	22
1008-208-402	1/4" NPT	5/8"-18 UNF LH	33.3	4.7	14	133	----	44	9	16.650/16.644	Ø 9	24	22
1008-110-402	3/8" BSP	5/8"-18 UNF LH	33.3	4.7	14	130	----	44	9	16.650/16.644	Ø 9	24	22
1008-210-302	3/8" NPT	M 16X1.5 LH	30	5	11	133	----	44	9	17.993/17.975	Ø 9	24	22
1008-210-402	3/8" NPT	5/8"-18 UNF LH	33.3	5	14	133	----	44	9	17.993/17.975	Ø 9	24	22
1008-108-392	1/4" BSP	M 16X1.5 LH	30	5	11	135	105	53	9	17.993/17.975	G 1/4" BSP	24	----
1008-110-392	3/8" BSP	M 16X1.5 LH	30	5	11	135	105	44	9	17.993/17.975	Ø 9	24	----
1008-210-392	3/8" NPT	M 16X1.5 LH	30	4.7	11	135	105	44	9	16.650/16.644	Ø 9	24	----
1008-210-492	3/8" NPT	5/8"-18 UNF LH	33.3	4.7	14	138	105	44	9	16.650/16.644	Ø 9	24	----

Subject to technical & dimensional changes without prior notice.

Please do not operate at max. pressure combined with max. speed.

Customized models are available on request.



Special Design Features

- Self-supported rotary union
- Aluminium anodized housing to resist corrosion from media
- Stainless steel threaded rotor
- Highly precise and lubricated deep groove ball bearings for long life and stable rotation at very high speed
- Specially designed mechanical seals to sustain high pressure changes with minimum friction and wear for prolong service life
- Designed for both axial and radial application
- Available in both US and metric thread standards
- Easy installation

Technical Data

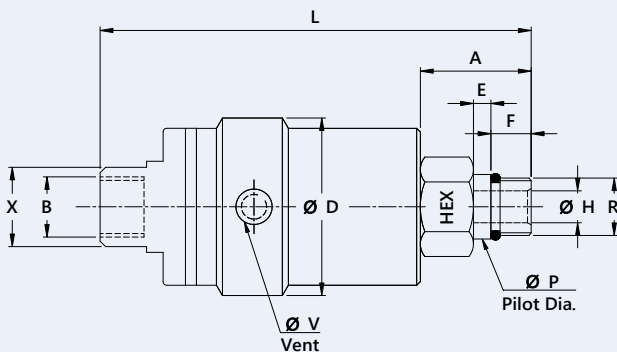
- Max. Pressure 70 bar (1,015 psi)
- Max. Temperature 70°C (160° F)
- Max. Rotor Speed 12,000 rpm
- Max. Flow of Media 24 L / min



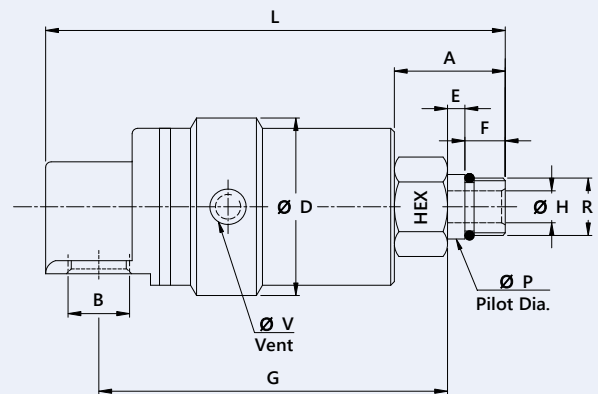
**NO AIR PRESSURE
WITH ROTATION**

FLUIDEN 1902 series coolant rotary unions are ideal for new installations as well as directly interchangeable with any other brands of coolant rotary unions

Axial Model (180°)



Radial Model (90°)



Model No.	'B' Port Size		'R' Rotor Thread	A	F	E	G	L	Ø D	Ø H	Ø P Pilot Dia.	V	HEX	X
1902-110-302	Axial	G 3/8" BSP	M 16X1.5-LH	32	11	5	----	130	49.5	9	17.993/17.988	1/4" BSP	24	22
1902-210-402		3/8" NPT	5/8"-18 UNF-LH	35.7	14.3	5	----	134	49.5	9	16.650/16.644	1/4" NPT	24	22
1902-310-302		3/8" PT	M 16X1.5-LH	32	11	5	----	130	49.5	9	17.993/17.988	1/4" PT	24	22
1902-110-392	Radial	G 3/8" BSP	M 16X1.5-LH	32	11	5	106	136	49.5	9	17.993/17.988	1/4" BSP	24	----
1902-210-492		3/8" NPT	5/8"-18 UNF-LH	35.7	14.3	5	106	140	49.5	9	16.650/16.644	1/4" NPT	24	----
1902-310-392		3/8" PT	M 16X1.5-LH	32	11	5	106	136	49.5	9	17.993/17.988	1/4" PT	24	----

Subject to technical & dimensional changes without prior notice.

Please do not operate at max. pressure combined with max. speed.

Customized Models are available on request.



Special Design Features

- Self-supported rotary union
- Aluminium anodized housing to resist corrosion from media
- Stainless steel threaded rotor
- Highly precise and lubricated angular contact ball bearings for long life and stable rotation at very high speed
- Specially designed mechanical seals to sustain high pressure changes with minimum friction and wear for prolong service life
- Designed for both axial and radial application
- Available in both US and metric thread standards
- Easy installation

Technical Data

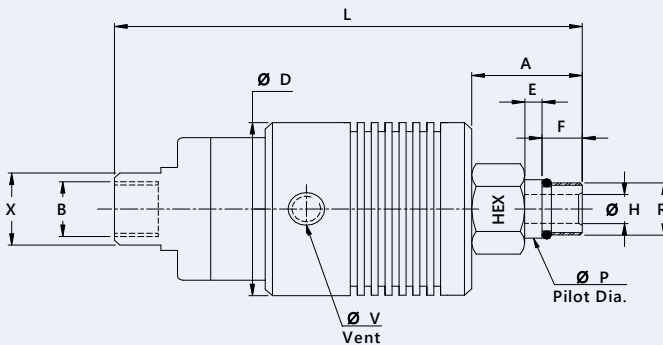
- Max. Pressure 105 bar (1,520 psi)
- Max. Temperature 70°C (160° F)
- Max. Rotor Speed 20,000 rpm
- Max. Flow of Media 24 L / min



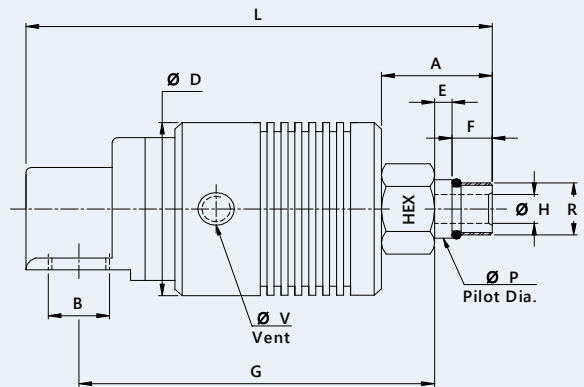
**NO AIR PRESSURE
WITH ROTATION**

FLUIDEN 1009 series coolant rotary unions are ideal for new installations as well as directly interchangeable with any other brands of coolant rotary unions

Axial Model (180°)



Radial Model (90°)



Model No.	‘B’ Port size		‘R’ Rotor Thread	A	F	E	G	L	Ø D	Ø H	Ø P Pilot Dia.	V	HEX	X
1009-108-302	Axial	G 1/4" BSP	M 16X1.5 LH	31	11	5	----	130	53	5	17.993/17.988	G1/4" BSP	24	22
1009-208-402		1/4" NPT	5/8"-18 UNF LH	34	14.3	5	----	134	53	5	16.650/16.644	1/4" NPT	24	22
1009-308-302		1/4" PT	M 16X1.5 LH	31	11	5	----	129	53	9	17.993/17.988	1/4" PT	24	22
1009-110-302		G 3/8" BSP	M 16X1.5 LH	31	11	5	----	130	53	9	17.993/17.988	G1/4" BSP	24	22
1009-210-402		3/8" NPT	5/8"-18 UNF LH	34	14.3	5	----	134	53	9	16.650/16.644	1/4" NPT	24	22
1009-310-302		3/8" PT	M 16X1.5 LH	31	11	5	----	129	53	9	17.993/17.988	1/4" PT	24	22
1009-108-392	Radial	G 1/4" BSP	M 16X1.5 LH	31	11	5	105	136	53	5	17.993/17.988	G1/4" BSP	24	---
1009-208-492		1/4" NPT	5/8"-18 UNF LH	34	14.3	5	105	140	53	5	16.650/16.644	G1/4" NPT	24	---
1009-308-392		1/4" PT	M 16X1.5 LH	31	11	5	105	136	53	9	17.993/17.988	1/4" PT	24	---
1009-110-392		G 3/8" BSP	M 16X1.5 LH	31	11	5	105	136	53	9	17.993/17.988	G1/4" BSP	24	---
1009-210-492		3/8" NPT	5/8"-18 UNF LH	34	14.3	5	105	140	53	9	16.650/16.644	1/4" NPT	24	---
1009-110-390		3/8" PT	M 16X1.5 LH	31	11	5	105	136	53	9	17.993/17.988	1/4" PT	24	---

Subject to technical & dimensional changes without prior notice.

Please do not operate at max. pressure combined with max. speed.

Customized models are available on request.

2220 Series High Speed 2-Passage Rotary Unions for Various Media



Special Design Features

- Self-supported rotary union with two independent passages
- Aluminium anodized housing to resist corrosion from media
- Stainless steel flanged rotor
- lubricated deep groove ball bearings for long life and stable rotation at very high speed
- Specially designed mechanical seals to sustain high pressure changes with minimum friction and wear for prolong service life
- Labyrinth system to protect ball bearings
- Easy installation

Technical Data

- | | |
|---------------------------|-----------------------------|
| • Media | Hydraulic Oil, Coolant, Air |
| • Max. Air Pressure | 6 bar (85 psi) |
| • Max. Coolant Pressure | 70 bar (1000 psi) |
| • Max. Hydraulic Pressure | 65 bar (950 psi) |
| • Max. Temperature | 70°C (160° F) |
| • Max. Rotor Speed | 7,000 rpm |
| • Max. Flow of Media | 70 L / min |
| • Filtration | ISO 4406 Class 17/15/12, |

FLUIDEN 2220 series high speed two-passage rotary unions are ideal for new installations as well as directly interchangeable with any other brands of coolant rotary unions

Model No.	'B' Port Size	'R' Connection
2220-208-108F-SPL	(2) X 1/4 NPT	Ø 108 MM FLANGED ROTOR



Special Design Features

- Self-supported rotary union
- Aluminium anodized housing to resist corrosion from media
- Stainless steel threaded rotor
- Highly precise and lubricated angular contact ball bearings for long life and stable rotation at very high speed
- Specially designed mechanical seals to sustain high pressure changes with minimum friction and wear for prolong service life
- Designed for both axial and radial application
- Available in both US and metric thread standards
- Easy installation

Technical Data

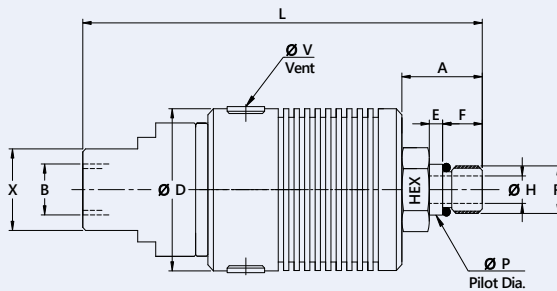
- Max. Pressure 105 bar (1500 psi)
- Max. Temperature 85°C (185° F)
- Max. Rotor Speed 15,000 rpm
- Max. Flow of Media 80 L / min



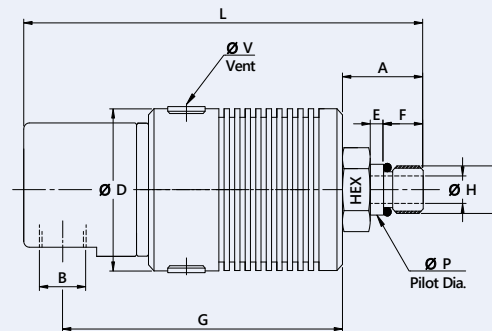
**NO AIR PRESSURE
WITH ROTATION**

FLUIDEN 1080 series coolant rotary unions are ideal for new installations as well as directly interchangeable with any other brands of coolant rotary unions

Axial Model (180°)



Radial Model (90°)



Model No.	'B' Port Size		'R' Rotor Thread	A	F	E	L	G	Ø D	Ø H	Ø P Pilot Dia.	V	HEX
1080-108-301	Axial	G 1/4" BSP	M 16X1.5 - RH	25.9	10.9	5	144	65	53	8.9	17.993/17.988	G 1/8" BSP	24
1080-208-302		G 1/4" NPT	5/8"-18 UNF LH	28.9	13.9	5	141	65	53	8.9	16.650/16.644	G 1/8" BSP	24
1080-110-301		G 3/8" BSP	M 16X1.5 - RH	25.9	10.9	5	144	65	53	8.9	17.993/17.988	G 1/8" BSP	24
1080-210-302		G 3/8" NPT	5/8"-18 UNF LH	28.9	13.9	5	141	65	53	8.9	16.650/16.644	G 1/8" BSP	24
1080-108-391	Radial	G 1/4" BSP	M 16X1.5 - RH	25.9	10.9	5	144	65	53	8.9	17.993/17.988	G 1/8" BSP	24
1080-208-392		G 1/4" NPT	5/8"-18 UNF LH	28.9	13.9	5	141	65	53	8.9	16.650/16.644	G 1/8" BSP	24
1080-110-391		G 3/8" BSP	M 16X1.5 - RH	25.9	10.9	5	144	65	53	8.9	17.993/17.988	G 1/8" BSP	24
1080-210-392		G 3/8" NPT	5/8"-18 UNF LH	28.9	13.9	5	141	65	53	8.9	16.650/16.644	G 1/8" BSP	24

Subject to technical & dimensional changes without prior notice.

Please do not operate at max. pressure combined with max. speed.

Customized models are available on request.



Special Design Features

- Self-supported rotary union
- Aluminium anodized housing to resist corrosion from media
- Stainless steel threaded rotor
- Highly precise and lubricated deep groove ball bearings for long life and stable rotation at very high speed
- Specially designed mechanical seals to sustain high pressure changes with minimum friction and wear for prolong service life
- Designed for both axial and radial application
- Available in both US and metric thread standards
- Easy installation

Technical Data

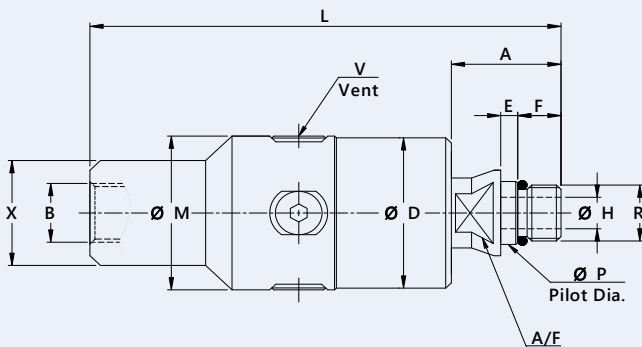
- Max. Pressure 105 bar (1500 psi)
- Max. Temperature 85°C (185° F)
- Max. Rotor Speed 15,000 rpm
- Max. Flow of Media 80 L / min



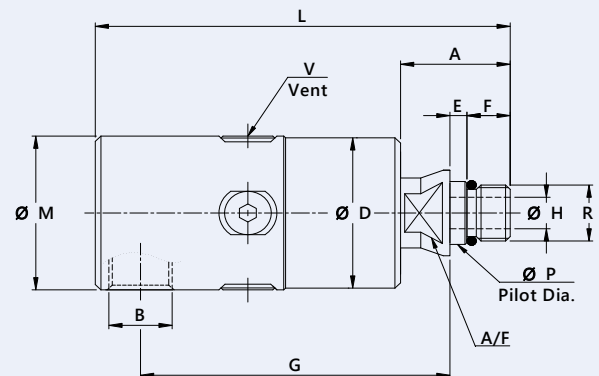
**NO AIR PRESSURE
WITH ROTATION**

FLUIDEN 1090 series coolant rotary unions are ideal for new installations as well as directly interchangeable with any other brands of coolant rotary unions

Axial Model (180°)



Radial Model (90°)



Model No.	'B' Port Size	'R' Rotor Thread	A	F	E	L	G	Ø M	Ø D	Ø H	Ø P Pilot Dia.	V	HEX	X
1090-108-301	G 1/4" BSP	M16X1.5 - RH	29	11.5	4.5	108	92	34.4	34	5	17.993/17.988	G 1/4" BSP	---	30
1090-208-302		M16X1.5 - LH	29	11.5	4.5	108	92	34.4	34	5	17.993/17.988	G 1/4" BSP	---	30
1090-110-301		M16X1.5 - RH	29	11.5	4.5	125	109	44	43	9	17.993/17.988	G 1/4" BSP	---	24
1090-210-302		M16X1.5 - LH	29	11.5	4.5	125	109	44	43	9	17.993/17.988	G 1/4" BSP	---	24
1090-108-391	G 1/4" NPT	M16X1.5 - RH	29	11.5	4.5	91	66	34.4	34	5	17.993/17.988	G 1/4" BSP	17	---
1090-208-392		M16X1.5 - LH	29	11.5	4.5	91	66	34.4	34	5	17.993/17.988	G 1/4" BSP	17	---
1090-110-391		M16X1.5 - RH	29	11.5	4.5	108	82	44	34	5	17.993/17.988	G 1/4" BSP	17	---
1090-210-392		M16X1.5 - LH	29	11.5	4.5	110	82	44	43	9	17.993/17.988	G 1/4" BSP	17	---

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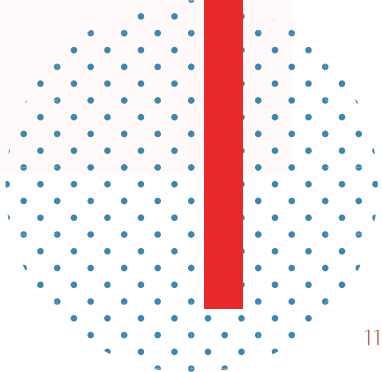
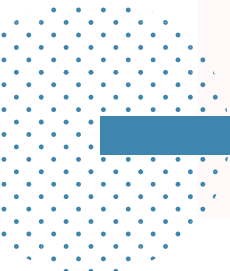



CUSTOM DESIGN PHILOSOPHY

STANDARD & CUSTOMIZED SOLUTIONS FOR SPECIAL WORKING CONDITIONS AND DIMENSIONS

Whatever your application needs are, we offer a wide range of standard models of Rotary Unions and customized models of Rotary Unions to fit your media type, pressure, speed and temperature requirements...

*.....Fill the form below, we are fully appreciate
your requirements and passionate to fulfill within*



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Fill the form below, we are fully appreciate your requirements and passionate to fulfill within

Machine Type	<input type="checkbox"/> CNC Machining Center <input type="checkbox"/> Turning Machine <input type="checkbox"/> Other _____	<input type="checkbox"/> Gun Drilling <input type="checkbox"/> Grinding	<input type="checkbox"/> Transfer Line or Flex Line <input type="checkbox"/> Multiple Spindle Head
Orientation	<input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical <input type="checkbox"/> Multi-axis: Vertical + _____ ° and – _____ °		
Union Location	<input type="checkbox"/> Spindle <input type="checkbox"/> Motor Spindle <input type="checkbox"/> Indexing Table or Pallet <input type="checkbox"/> Other: _____		
Available Space	Maximum overall length = _____ mm Maximum diameter = _____ mm (Please attach drawings or photographs of the area where the union will be installed.)		
Mounting	Bearing-supported: <input type="checkbox"/> Rotor-mounted <input type="checkbox"/> Bore-mounted Bearingless: <input type="checkbox"/> Outboard mounting <input type="checkbox"/> Inboard mounting <input type="checkbox"/> Around the shaft (shaft diameter = _____ mm) <input type="checkbox"/> Other: _____		
Rotor Style	<input type="checkbox"/> Threaded (pitch and diameter = _____) <input type="checkbox"/> Flanged (diameter = _____) <input type="checkbox"/> Other: _____		
Media	<input type="checkbox"/> Water-based coolant <input type="checkbox"/> Cutting oil <input type="checkbox"/> Hydraulic oil <input type="checkbox"/> Air-oil mist <input type="checkbox"/> Lubricated air <input type="checkbox"/> Dry air <input type="checkbox"/> Other: _____		
Operating Conditions	<input type="checkbox"/> Maximum pressure _____ bar (when rotating) _____ bar (when stopped) <input type="checkbox"/> Maximum speed _____ rpm <input type="checkbox"/> Maximum flow _____ liters per minute <input type="checkbox"/> Maximum temperature _____ °C		

FLUIDEN CO. (INDIA)

(AN ISO 9001:2015 COMPANY)



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