

4000 SERIES ROTARY JOINT



STEAM, HOT WATER
1/2" (DN15) - 2" (DN50)

- Mono & duoflow
- Nodular casting body
- Carbon graphite sealing parts
- Stainless steel shaft & flange
- Stationary or rotating siphon system

*** For further information please contact
Rototech or local representative.

*** No dry run!

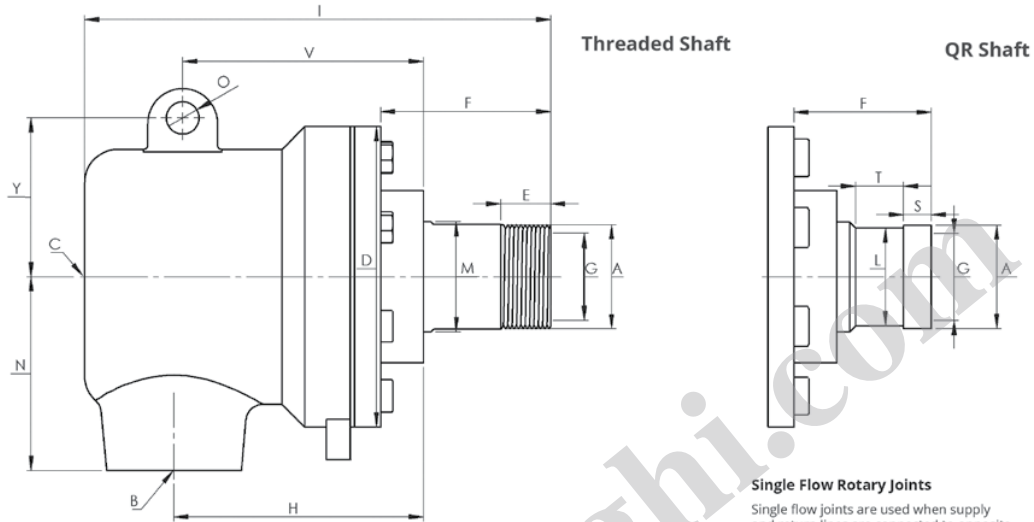
Working Conditions

Max. Water Pressure	:	17 Bar
Max. Steam Temperature	:	200 °C
Max. Speed / RPM	:	400 rpm/min





4000 Series 1/2" (DN15) - 2" (DN50) Single Flow Rotary Joints



* Custom sized manufacturing are available.

Single Flow Rotary Joints

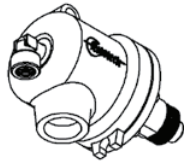
Single flow joints are used when supply and return lines are connected to opposite sides of the cylinder.

* Using see page 36

4000 SERIES ROTARY JOINTS - SINGLE FLOW 1/2"(DN15) - 2"(DN50)

Size DN	B	4000 Model No	A	C	D	F	E	G	H	I	Y	N	O	S	T	L	V	Kg
15	1/2"	4050-110-106	1/2" NPT - RH	3/8"	92	58	18	15	73	143	42	53,50	12				70	2,07
		4050-110-107	1/2" NPT - LH															
		4050-210-206	1/2" BSP - RH															
		4050-210-207	1/2" BSP - LH															
		4050-210-100	QR															
20	3/4"	4075-110-108	3/4" NPT - RH	1/2"	92	61	20	20	77,50	155	44,50	53,50	12				77,50	2,54
		4075-110-109	3/4" NPT - LH															
		4075-210-208	3/4" BSP - RH															
		4075-210-209	3/4" BSP - LH															
		4075-210-100	QR															
25	1"	4100-110-110	1" NPT - RH	3/4"	98	64	20	25	87	167	48	53,50	12				84,50	3,30
		4100-110-111	1" NPT - LH															
		4100-210-210	1" BSP - RH															
		4100-210-211	1" BSP - LH															
		4100-210-100	QR															
32	1 1/4"	4125-110-112	1 1/4" NPT - RH	1"	110	72	23	32	95,50	189	59	53,50	15				94	4,61
		4125-110-113	1 1/4" NPT - LH															
		4125-210-212	1 1/4" BSP - RH															
		4125-210-213	1 1/4" BSP - LH															
		4125-210-100	QR															
40	1 1/2"	4150-110-114	1 1/2" NPT - RH	1 1/4"	138	68	22	40	108	202	73,50	53,50	15				104	7,45
		4150-110-115	1 1/2" NPT - LH															
		4150-210-214	1 1/2" BSP - RH															
		4150-210-215	1 1/2" BSP - LH															
		4150-210-100	QR															
50	2"	4200-110-116	2" NPT - RH	1 1/2"	158	79	25	50	122	240	79	53,50	16				126	12,50
		4200-110-117	2" NPT - LH															
		4200-210-216	2" BSP - RH															
		4200-210-217	2" BSP - LH															
		4200-210-100	QR															

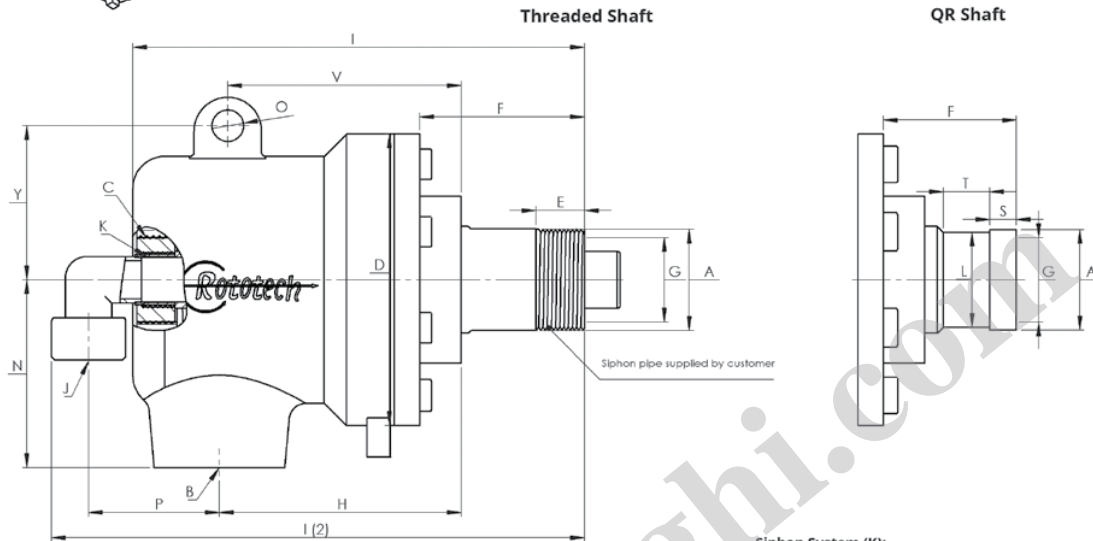
4000 Series 1/2" (DN15) - 2" (DN50) Duo Flow Rotary Joints



Duo Flow Rotary Joints

Duo flow joints are used when supply and return lines are connected to same sides of the cylinder.

* Using see page 36



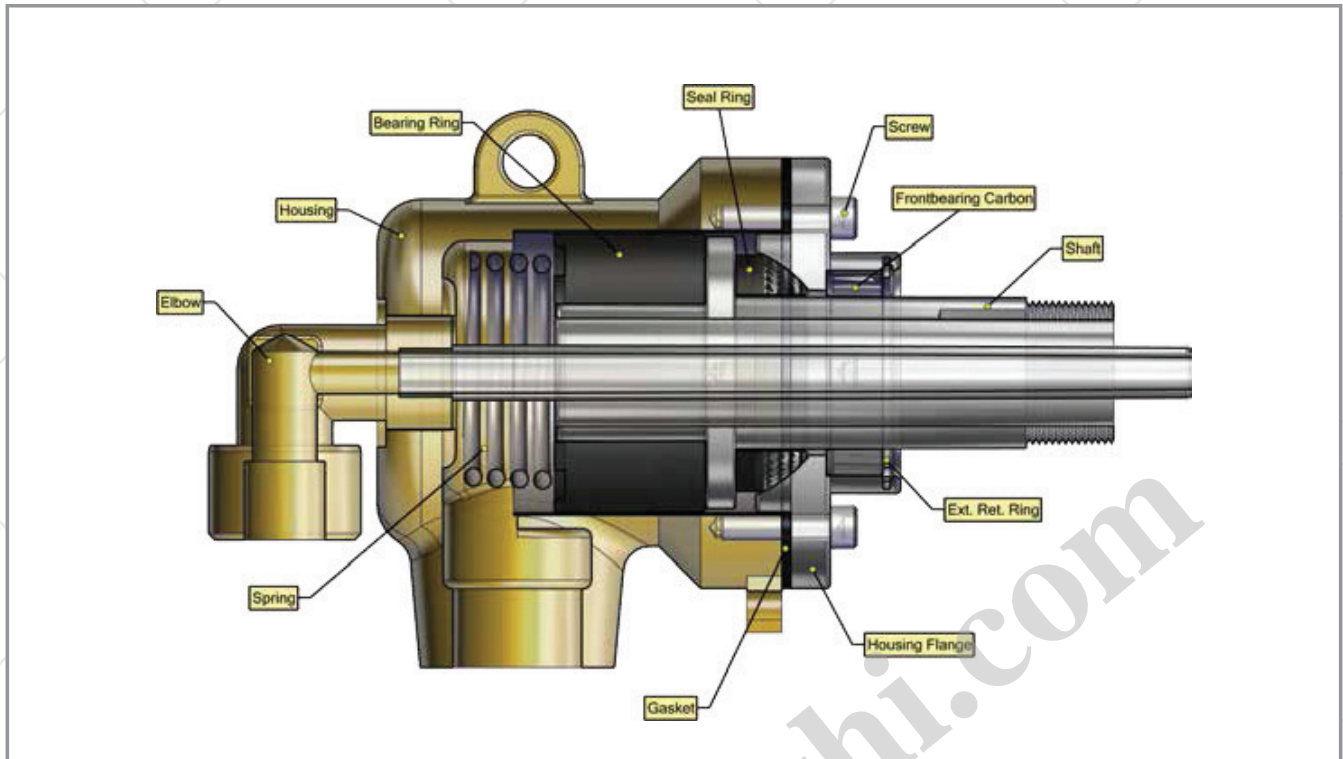
Siphon System (K):

Stationary and rotating siphon systems are available

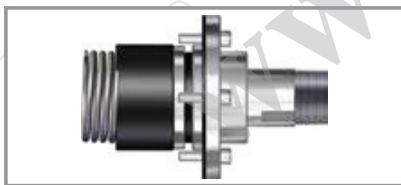
* Custom sized manufacturing are available.

4000 SERIES ROTARY JOINTS - DUAL FLOW 1/2"(DN15) - 2"(DN50)

Size DN	B	4000 Model No	A	K	J	D	F	E	G	H	I	I(2)	Y	N	P	O	S	T	L	V	Kg	
15	1/2"	4050-110-106 D	1/2" NPT - RH	3/8"	1/4"	3/8"	92	58	18	15	73	143	174	42	53,50	46	12				70	2,17
		4050-110-107 D	1/2" NPT - LH																			
		4050-210-206 D	1/2" BSP - RH																			
		4050-210-207 D	1/2" BSP - LH																			
		4050-210-100 D	QR																			
20	3/4"	4075-110-108 D	3/4" NPT - RH	1/2"	1/4"	3/8"	92	61	20	20	77,50	155	188	44,50	60	50,50	12				77,50	2,64
		4075-110-109 D	3/4" NPT - LH																			
		4075-210-208 D	3/4" BSP - RH																			
		4075-210-209 D	3/4" BSP - LH																			
		4075-210-100 D	QR																			
25	1"	4100-110-110 D	1" NPT - RH	3/4"	3/8"	1/2"	98	64	20	25	87	167	206	48	67	53	12				84,50	3,40
		4100-110-111 D	1" NPT - LH																			
		4100-210-210 D	1" BSP - RH																			
		4100-210-211 D	1" BSP - LH																			
		4100-210-100 D	QR																			
32	1 1/4"	4125-110-112 D	1 1/4" NPT - RH	1"	1/2"	1/2"	110	72	23	32	95,50	189	232	59	76	62,50	15				94	4,76
		4125-110-113 D	1 1/4" NPT - LH																			
		4125-210-212 D	1 1/4" BSP - RH																			
		4125-210-213 D	1 1/4" BSP - LH																			
		4125-210-100 D	QR																			
40	1 1/2"	4150-110-114 D	1 1/2" NPT - RH	1 1/4"	3/4"	3/4"	138	68	22	40	108	202	241	73,50	89	62	15				104	7,58
		4150-110-115 D	1 1/2" NPT - LH																			
		4150-210-214 D	1 1/2" BSP - RH																			
		4150-210-215 D	1 1/2" BSP - LH																			
		4150-210-100 D	QR																			
50	2"	4200-110-116 D	2" NPT - RH	1 1/2"	1"	1"	158	79	25	50	122	240	293	79	102	82	16				126	12,84
		4200-110-117 D	2" NPT - LH																			
		4200-210-216 D	2" BSP - RH																			
		4200-210-217 D	2" BSP - LH																			
		4200-210-100 D	QR																			



Model	4050	4075	4100	4125	4150	4200
Cartridge	4050-C BSP - RH	4075-C BSP - RH	4100-C BSP - RH	4125-C BSP - RH	4150-C BSP - RH	4200-C BSP - RH
	4050-C BSP - LH	4075-C BSP - LH	4100-C BSP - LH	4125-C BSP - LH	4150-C BSP - LH	4200-C BSP - LH
	4050-C NPT - RH	4075-C NPT - RH	4100-C NPT - RH	4125-C NPT - RH	4150-C NPT - RH	4200-C NPT - RH
	3025C-C NPT-LH	4075-C NPT - LH	4100-C NPT - LH	4125-C NPT - LH	4150-C NPT - LH	4200-C NPT - LH
	4050-C QR	4075-C QR	4100-C QR	4125-C QR	4150-C QR	4200-C QR
T-1	4050-T2	4075-T2	4100-T2	4125-T2	4150-T2	4200-T2
T-2	4050-T3	4075-T3	4100-T3	4125-T3	4150-T3	4200-T3



Cartridge

- Shaft
- Cover (AISI304)
- Gasket
- Front Bearing Carbon
- Ext.Ret. Ring
- Seal Ring
- Bearing Ring
- Spring
- Screw



T-1

- Gasket
- Front Bearing Carbon
- Seal Ring
- Bearing Ring
- Spring



T-2

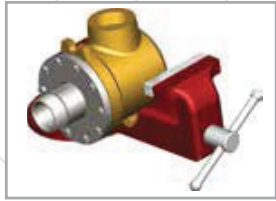
- Front Bearing Carbon
- Seal Ring
- Bearing Ring



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4000 SERIES ROTARY JOINTS INSTALLATION INSTRUCTIONS



1. First hold the rear of the joint in a bench vise and assemble the flexible hoses.

2. If rotating joint is used with a dual flow elbow, assemble the dual flow elbow, return hose and siphon pipe while the joint is hold in the bench vise.



3. After assembling the hoses, install the joint to the machine. When installing, pay attention not to install eccentrically.



4. Connect supply and return lines to hoses. Control the flexibility of the hoses. Be sure that the hoses are flexible and will be flexible under the pressure and temperature of the medium. Never install the joint directly to the supply and return pipes.



5. After assembling, check if running is smooth. If not, disassemble the joint from the machine and assemble it again.



6. After installing the joint to the machine, install the anti rotation rod into one of the holes on the housing. Never tie more than 2 joints with a single rod. Fix the rod to one of the joints and leave the rod to float.



4000 SERIES ROTATING JOINTS HOSE INSTALLATIONS

1. Do not anchor rotary joint. Rotary are designed to float with the flexible hoses.



2. Do not pipe directly. Always use flexible hoses.

3. For steam, hot oil and water use steel flexible hoses, for air and hydraulic use rubber hoses.

4. Install hose with curve in direction of rotation.

5. Flexible hoses must not be twisted during operation. Twisted hoses lose flexibility. Use pipe fittings for proper installation.

6. If rotating joint and pipe axis are not on the same axis, hose must be installed with a smooth curve.

