



100 SERIES INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS



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Rev No: 0

SIZE	MODEL
1/8"	106
1/4"	108
3/8"	110
1/2"	115
3/4"	120
1"	125
1 1/4"	132
1 1/2"	140
2"	150



WARNING

Unless specified; ROTOFLUID rotary joints must not be used with Hydrocarbons or Flammable Mediums. Leaking may result explosion or fire.

Medium: Pneumatic

Max. Pressure: 10 bar (150 psi)

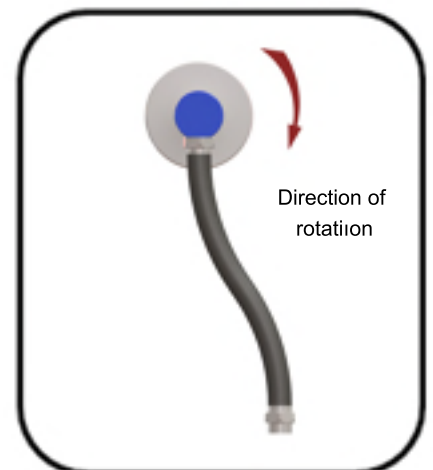
Max. Temperature: 120°C (250°F)

Max. Speed: 3,500 RPM

- Do not work with max. pressure at max. speed.
- All ROTOFLUID products are leakage tested before shipment. Disassembling or dismantling the joint invalidates the warranty.
- Operator should not make any modification or attachments and retrofitting of the rotary joint without manufacturers' consent is forbidden.
- It is important to use correct hand of rotary connection thread to ensure the Rotary Joint will not unscrew. If shaft rotates forward & reverse; flanged connection is recommended.
- ROTOFLUID Rotary Joints may only be installed by personel who have experience and knowledge about rotary joints and plumbing systems.
- For safe operation only use genuine ROTOFLUID parts.
- For safe operation only use hoses which are appropriate for the media.
- Follow engineering specifications of the machine builder.
- 100 Series Rotary Joints are designed to work with the interpassing medium. Do not run dry very long time. If application needs dry running, please consult factory.

INSTALLATION

- Do not connect Rotary Joint directly to piping. Rotary Joints are designed to float with the flexible hoses.
- Install hose with curve in direction of rotation.
- Unless specified, all 100 Series Rotary Joints are shipped as P-type.
- For special applications; 100 Series Rotary Joints can be manufactured as S or RSP type.
- Always flood the Rotary Joint and purge any entrapped air in the system before operating the machine to improve joint performance and longer joint life.





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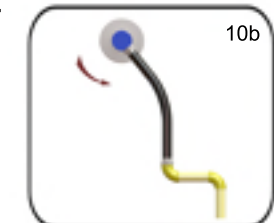
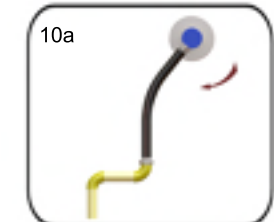
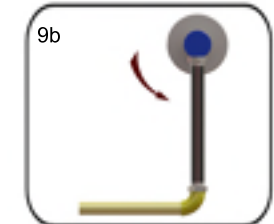
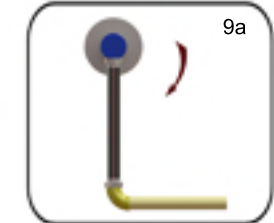


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1. First hold the housing of the joint with a bench vise. Do not clamp too tightly, it will damage housing or bearings.
2. Apply sealant/adhesive or teflon tape to the threads of the hose and assemble them to the housing.
3. Clean machine bore surface before assembling.
4. Apply adhesive or teflon tape to the thread of the shaft and install the joint to the machine. When installing, pay attention not to install eccentrically.
5. If the joint shaft is flanged,
 - 5.a) Clean flange sealing surface
 - 5.b) Place a new flange sealing o-ring into the o-ring groove
 - 5 c) Align rotating joint flange and machine bore flange.
 - 5 d) Fix flange to the bore of the roll with appropriate bolts. Make sure the sealing o-ring on the shaft flange is in position.
6. If the joint shaft is quick release; put a new copper washer into the bore of the roll, assemble qr flange onto the shaft, place split rings onto the socket on the shaft correspondingly, place qr flange onto the split wedges and fix the flange to the bore of the roll with appropriate bolts.
7. Connect inlet hose to the supply line. Use flexible hose and never install joint directly to the pipe.
8. After assembly; control rotation of joint. If any wobble,vibration, knocking or noise show up or if any eccentricity seems; disassemble the joint from the machine and assemble it again.
9. Flexible hoses must not be twisted during operation. Use proper pipe fittings.
10. If rotating joint and pipe axis are not on the same axis, hose must be installed with a smooth curve.

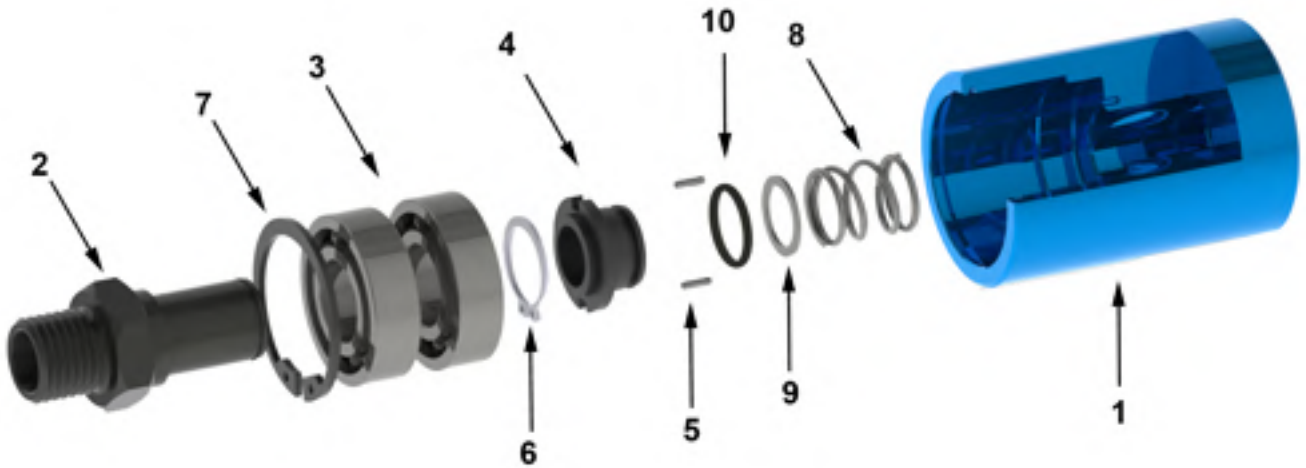


LUBRICATION

- 100 Series Rotary Joints are life lubricated and do not need lubrication during operation.

MAINTENANCE

- 100 Series Rotary Joints are maintenance free.
- Before disassembling from the machine, be sure that no feed pressure is applied.
- If the rotary joint is defected and leaking occurs, replace seals with new ones and do not work with leaking joints.



NO	PART NAME	QTY
1	HOUSING	1
2	SHAFT	1
3	BALL BEARING	2
4	SEAL RING	1
5	PIM	2
6	EXT. RETAINING RING	1
7	INT. RETAINING RING	1
8	SPRING	1
9	SPACER	1
10	O-RING	1

Small Spare Parts Kit

- (4) Seal Ring
- (8) Spring
- (10) Seal Ring O-ring

Spare Parts Kit

- (2) Shaft
- (3) Ball Bearings
- (4) Seal Ring
- (6) Ext. Retaining Ring
- (7) Int. Retaining Ring
- (8) Spring
- (9) Spacer
- (10) O-ring

Repair kits are available for 100 Series Rotary Joints and can be supplied by ROTOFLUID.

If you don't want to repair your rotary joints, ROTOFLUID will disassemble the joints, clean and replace worn out parts and all sealing tests will be made and joints will be shipped as good as a new joint.