

Installation and repair instructions for multipassage unions type G_M

SAFETY INSTRUCTIONS

Please follow your company' safety procedures whenever working on Johnson-Fluiten rotary unions and read all of the instructions completely before proceeding. Please refer to the engineer drawings of your Johnson-Fluiten rotary union for part identification. If you have any question, please contact your sales representative or Johnson-Fluiten directly.

LUBRICATION

NOTICE

Johnson-Fluiten recommends to use Silicon grease SIL133 or equivalent for all gaskets compounds.

Preliminary check

WARNING

Before proceeding with assembly verify rotor housing, diameter and body connection accordingly to our catalogue for standard product or drawing for customized union.

INSTALLATION INSTRUCTIONS

- Provide fittings for the connection with the rotary joint.
- Connect the rotary joint to the connections on the nipple using flexible rubber tubes.
- Lift the rotary joint and place it nearby the interface.
- Verifying that the nipple centerline is aligned with the interface centerline and the connection are correctly oriented in respect of the plant lines.
- Mount the joint, slowly, until obtaining the contact between the nipple flange and the interface plane.
- Pay attention to align the screw holes and fitting the centering diameter
- Insert and tighten the screws using a cross locking system and applying the correct torque value (see table 1)
- Connect the rotary union with the plant lines, using flexible rubber tube with a correct length to avoid loads and torques applied to the union.

FLEXIBLE HOSE CONNECTIONS

Depending on your application, choose either a rubber or metal braided hose, with ratings able to sustain the flow media.

WARNING

When connecting the rotary union to the fixed piping, the flexible hose should be installed as close to the union as possible, in a relaxed condition, neither stretched or compressed. If you have unusual



long run of hose, it is strongly suggested you to support the hoses to protect the bearings from overload. Refer to Table 2 to determine the correct length of flexible hose needed to isolate the rotary union from piping stresses

FUNCTIONAL TEST

It is not possible to define in detail the functional test which will depend on the type of installation, a few general suggestions are specified below:

Start the machinery and operate for 5 minutes verifying:

- Absence of leakage
- Absence of vibration or abnormal noises produced by the rotary union
- Absence of excessive heating of rotary union, in particular in the area of ball bearings

ORDINARY MAINTENANCE

NOTICE

- Multipassage joints does not require regreasing: bearings are lubricated for life.

REPAIRKIT REPLACEMENT

- Remove seeger (pos.06)
- Press on bottom with a mechanical extractor and push the rotor (01) out of the body (02)
- Remove all internal gaskets with orings (09) from their own seat.

Only in case of bearing replacement:

- remove retaining ring (05) and seeger (07) after you push out the nipple
- remove bearings (03 and 04)

Johnson-Fluiten Warranty

Johnson-Fluiten products are built to a high standard of quality. Performance is what you desire: that is what we provide. Johnson-Fluiten products are warranted against defects in materials and workmanship for a period of one year after date of shipment. It is expressly understood and agreed that the limit of Johnson-Fluiten's liability shall, at Johnson-Fluiten's sole option, be the repair or resupply of a like quantity of non-defective product.



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- Clean carefully the nipple (01) and the internal of the body (02), checking if there's no sign of scratches and engravings
- Replace oring and press the gasket (09) inside its seat.
- Verify the gasket (09) is completely integral to its seat inside the body (02) to avoid breaks when you insert the rotor (01)

Table 1

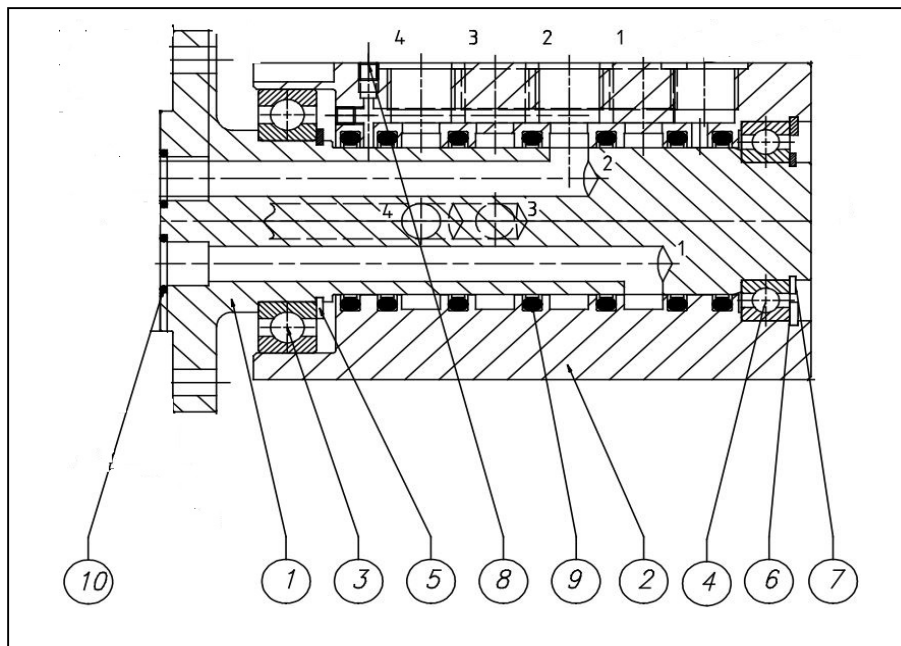
description	Dimension	Torque (N*m)
Nipple screw	M4	6
Nipple screw	M5	6
Nipple screw	M8	24.6
Nipple screw	M10	50

Table 2

RECOMMENDED MINIMUM HOSE LENGHT	
1/4"	200 mm
3/8"	250 mm
1/2"	250 mm
3/4"	300 mm

Only in case of bearing replacement:

- place the bearing (03) and secure it with retaining ring (05)
- place the bearing (04) and secure it with seeger (07)
- Carefully insert the rotor (01) turning it slowly to avoid gasket breaks.
- Reinsert the retaining ring (pos.06) and verify by hand the rotor can turn without excessive stress



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