



Read all of the maintenance instructions and safety procedures before proceeding.

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| 1 | HOUSING | 1 |
| 2 | SHAFT | 1 |
| 3* | O-RING | 1 |
| 4* | BALL BEARING | X |
| 5* | BALL PLUG | X |
| 6* | BACK-UP | 1 |
| 7* | SEAL O-RING | 1 |

* Spare parts set

1. Close inlet and outlet valves and wait for all the medium in the system to be drained completely. If hot medium is used, wait system to be cooled down to normal temperature.
2. Disassemble the swivel joint from the system with an appropriate tool.
3. Now the joint is ready for maintenance.
4. Put the swivel joint on a clean table on to the backside of the joint.
5. First of all take out ball plug(5).
6. Remove all grease inside ball bearing chamber with a suitable degreaser.
7. Rotate the shaft(2) and take out all ball bearings(4).
8. After all ball bearings are removed, take out the shaft from the housing.
9. Remove ball bearing o-ring(3) from the shaft.
10. Take out the seal o-ring(7) and back-up(6) from the seal chamber inside the housing.
11. Control ball bearings o-ring(3), if necessary replace them with new ones.
12. Be careful not to damage when assembling ball bearing o-rings onto the shaft.
13. Apply grease to a new seal o-ring(7) and place it inside sealing chamber.
14. Be careful not to damage the back-up when placing o-ring back-up(6) under the o-ring inside the sealing chamber.
15. After applying grease onto the ball bearing o-rings, while rotating the shaft, push the shaft into the housing until ball bearing races are aligned.
16. Replace all deformed ball bearings(4) with new ones and place them all inside the bearing chamber and fix them with ball plug.
17. Control rotation of the swivel joint, if there is any problem, take out all ball bearings and control bearing chambers.
18. Swivel joint is ready to be assembled back in system.
19. Assemble swivel joint to the system.
20. Open inlet and outlet valves, check if any leaking occurs from the drain port. If there is no leakage, the swivel joint is ready to be placed back in service.