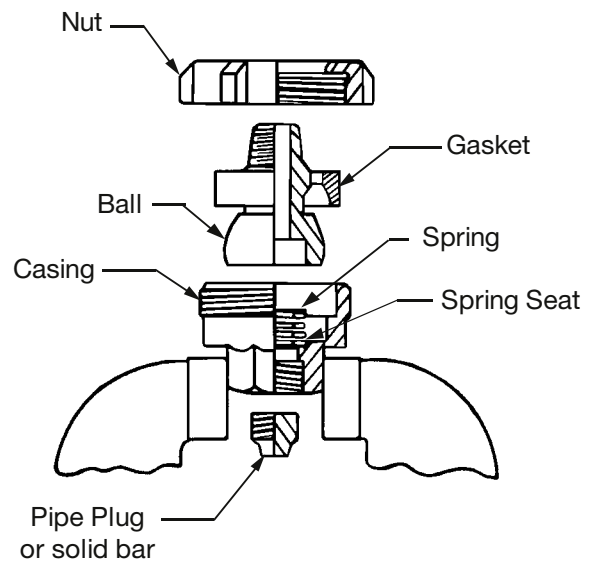# Maintenance & Repair Procedure

Maintenance and repair procedure of *DEUBLIN* Type Self-Align Swivel Joints is usually limited to infrequent replacement of the gasket. The procedure for disassembly and reassembly is as follows:

Disassembly

- Tap Upward
- 90° Elbow
- Ball
- Casing
- Clamp in Vise
- Screw Pipe Plug or solid bar into Casing

Reassembly

- Nut
- Gasket
- Ball
- Spring
- Casing
- Spring Seat
- Pipe Plug or solid bar
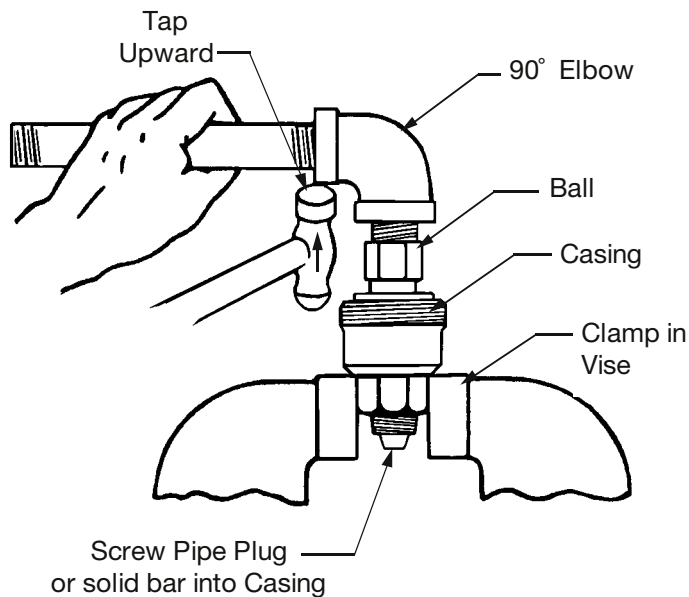
Disassembly procedure

1. Screw pipe plug or solid bar into casing, then clamp hex end in vise. Never clamp on casing proper—see above.

2. Unscrew nut with spanner or pipe wrench; remove and set aside.

3. Attach pipe nipple and elbow to ball end. Tap sharply with hammer to lift out ball and old gasket—do not pry out gasket.

4. If spring is weak or ball surface is scored or worn, replace parts. Clean all parts carefully. Remove any scale from working surfaces.

Reassembly procedure

1. Replace one spring seat and spring in casing and place recessed end of ball on top of spring.

2. Slide new gasket over extending end of ball and guide carefully down to gasket seat with concave surface next to ball. Gasket may be tapped lightly to guide squarely into seat opening in the casing.

3. With gasket aligned to be forced into seat, replace nut and screw down tight until positive contact between nut and casing is made. Avoid pinching gasket in assembly. Lubrication is not required: however, a coating of grease or oil may be used to facilitate seating gaskets.
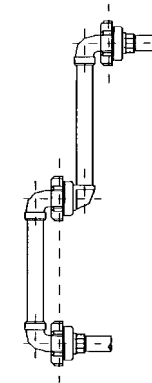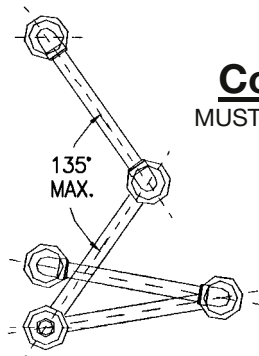
Installation Drawings

Proper installation of swivels is critical for long life. Two of the three ball center lines MUST be aligned when installed on the dog-leg. The maximum opening angle MUST not exceed 135°.
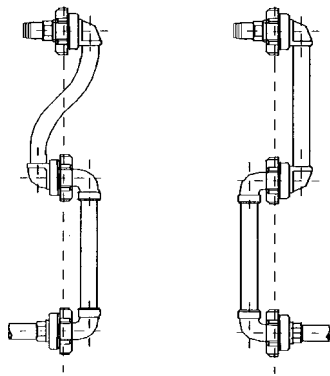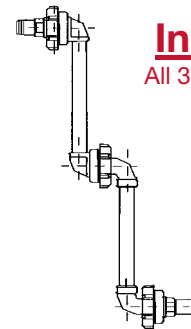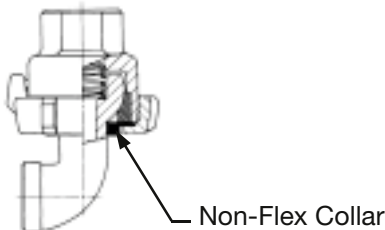
Correct
All 3 joints inline

Correct
2 joints inline

Correct
MUST not exceed 135°

135° MAX.

Incorrect
All 3 joints are out of line

Non-Flex Collar

The non-flex collar design is used to prevent side flexibility. This swivel is used at the top anchor point to prevent lateral movement of long pipes. Only one non-flex collar swivel is to be used per dog-leg, otherwise binding of the assembly will occur.

DEUBLIN®

Specifications subject to change without notice.

www.deublin.eu