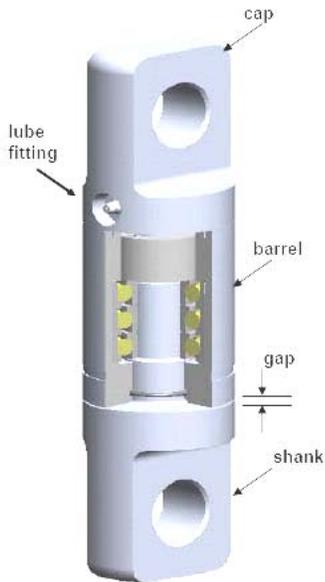




Supplementary Lubrication Instructions, Miller Y-Link Angular Contact Swivels For Swivels Used in Seawater Environments

Miller's Y-Link swivels are sometimes used in offshore construction, installation, and recovery operations where long term deployment is not a consideration. These instructions supplement Miller's basic swivel maintenance and inspection recommendations and are designed to maximize operability given the special circumstances of submerged use in marine environments.



Lubrication instructions

It is strongly recommended that the swivel be lubricated immediately before and after each submersion cycle. After removal from submerged operation it is important that the lubrication step be performed immediately. Do not store swivel after use without re-lubricating.

1. Suspend the swivel from its upper fitting to maximize the air gap between the swivel barrel and shank. This will assure that the flow from the pressure relief valve in the bottom of the barrel will not be obstructed. Note that the air gap is positioned below the lubrication fitting.
2. Evenly pump grease through the lube fitting maintaining pumping pressure until grease is expelled through the relief valve from the swivel gap area.
3. Rotate the swivel shank relative to the cap 180° in both directions three or four times and repeat the lubrication procedure.
4. Repeat step 3 until pure grease and no water is expelled from the gap.

Recommended lubricant

A non-toxic bearing lubricant with high water resistance, oxidation inhibitors and high pressure additives intended for subsea use such as *Jet Lube ALCO-EP-73 PLUS* (www.jetlube.com), or a similar product is recommended.