

3 Lubrication

Flowserve Limitorque WG operators are shipped with the following lubricants:

Table 3.1 – Lubricants

Product	Lubricant	Soap Base	Temperature Range
WG-00 through WG-10	Zenith LH 2	Lithium	-40°C to 90°C (-40°F to 194°F)

NOTE: The lubricant should be checked every 18 months for manual operators.

- ▲ **CAUTION:** Do not add a different lubricant to a Flowserve Limitorque operator unless it is of the same soap base as the existing lubricant, or you have received the approval of the lubricant manufacturer.

Quantity

Limitorque operators are built to operate on the partial immersion principle. The primary concern regarding the amount of lubricant is whether the “worm” is totally immersed in grease. This can be verified by the use of one or more of the “fill” and “drain” plugs provided on the operator housing in most sizes.

Quality

When removing a “fill” or “drain” plug to inspect the lubricant level, remove a small amount and ensure that it is clean and free of any contaminant, including water. Should dirt, water or other foreign matter be found, the operators should be flushed with a commercial degreaser/cleaner which is non-corrosive and does not affect seal materials such as Buna-N or Viton. Repack operator with fresh lubricant.

Consistency

The main gear box lubricant should be slightly fluid, approximating a standard NLGI-2 grade consistency or less.

Alternate lubricants may be used in place of the standard lubricants supplied by Flowserve, provided they are of a formulation similar to those listed above for the respective product.