



Installation, Operation & Maintenance Instructions For Right Angle Syncrogear®

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FORM
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⚠ WARNING

- Read and follow all instructions carefully.
- Disconnect and lock-out power before installation and maintenance. Working on or near energized equipment can result in severe injury or death.
- Do not operate equipment without guards in place. Exposed equipment can result in severe injury or death.
- High voltage and rotating parts may cause serious or fatal injury.
- Turn off power to install or service and operate with guards in place.

⚠ CAUTION

- Periodic inspections should be performed. Failure to perform proper maintenance can result in premature product failure and personal injury.

Safety First

High voltage and rotating parts can cause serious or fatal injury. Safe installation, operation and maintenance must be performed by qualified personnel. Familiarization with and adherence to NEMA MG2, the National Electrical Code and local codes is recommended. It is important to observe safety precautions to protect personnel from possible injury. Personnel should be instructed to:

1. Avoid contact with energized circuits or rotating parts.
2. Disconnect all power sources before initiating any maintenance or repair.
3. Act with care in accordance with prescribed procedures in handling and lifting this equipment.
4. Be sure unit is electrically grounded in accordance with code requirements.
5. Be sure equipment is properly enclosed to prevent access by children or other unauthorized personnel in order to prevent possible accidents.
6. Be sure shaft key is fully captive before unit is energized.
7. Avoid contact with capacitors until safe discharge procedures have been completed.
8. Provide proper safeguards for personnel against rotating parts and applications involving high inertia loads which can cause overspeed.
9. Avoid extended exposure to equipment with high noise levels.
10. Be familiar with the equipment and read all instructions thoroughly before installing or working on equipment.

Inspection and Handling

Inspect unit to make sure no damage has occurred during shipment.

⚠ WARNING Units should be lifted using all eyebolts or lugs, if provided. These eyebolts or lifting lugs are for lifting this unit only and must not be used to lift any additional weight. Use only approved eyebolts and lifting techniques. Failure to observe this warning may result in serious personal injury.

Storage and Mounting

Units should be stored in a clean, dry location. If units are to be stored for over six months, refer to Regal Power Transmission Solutions.

Mount units to a firm, flat surface which is sufficiently rigid to prevent vibration. Drive belts and chains should be within recommended limits of tightness. Couplings should be properly aligned and balanced. For drive recommendations refer to drive or equipment manufacturer or to Regal Power Transmission Solutions.

⚠ WARNING Guards should be provided for all exposed rotating parts to prevent possible personal injury. Keep fingers and foreign objects away from ventilation and other openings. Applications involving high inertia loads may damage this equipment due to motor overspeed during shut down. Such applications should be referred to Regal Power Transmission Solutions.

⚠ CAUTION Do not force drive coupling or other equipment onto shaft, as bearing damage may result.



Lubrication

The normal operating temperature of a worm gear reducer may be as high as 200°F. During initial break-in higher temperatures may occur. If the temperature exceeds 200°F for longer than 100 hours consult the factory.

1. Install the breather (vent plug) supplied, in correct location see diagrams on the back of this card. Adjust the oil level if mounting other than in "Worm Top" position. The unit is shipped from Regal Power Transmission Solutions with AGMA #8C oil.
2. Change initial oil fill after 500 hours or 5 weeks.
3. Change oil every 2500 hours service or 6 months. If severe operating conditions exist, change oil every 1 to 3 months.
4. 90 weight oil and EP oil are not recommended.
5. For ambient temperatures -25°F to 15°F use a synthetic lubricant. (See table on reverse). Recommended synthetic oils are acceptable for ambient temperatures up to 125°F. When changing oil type, the unit should be carefully drained and flushed prior to re-filling.
6. For units running at slow speeds or under other unusual conditions, contact Regal Power Transmission Solutions.

Lubricants / Manufacturers

The companies and oils shown below are typical. Any make of oil meeting American Gear Manufacturers Association (AGMA) standards #7C and #8C will be satisfactory.

Synthetic Lubricants

Ambient Temp.	Manufacturer	Synthetic oil
-25° to 125° F	Mobil®	SCH634
	Shell®	Omala® RL 460
		Omala RL 680

Mineral Oils

Ambient Temp.	15° F to 60° F	50° F to 125° F
Viscosity Range (cSt at 40°C)	414 - 506	612 - 748
ISO Grade	460	680
AGMA Grade	#7C	#8C
Shell	Valvata® Oil J460	Valvata Oil J680
Mobil	600 Super Cy. Oil	Extra Hecla Super Cyl. Oil

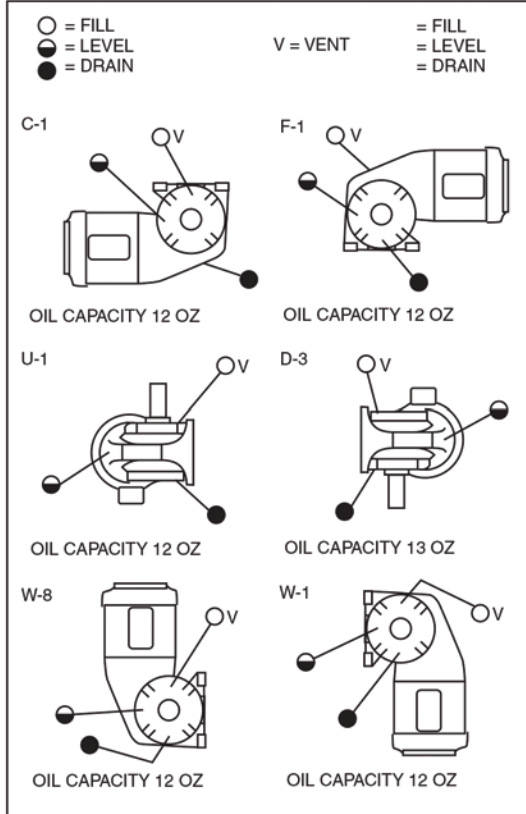
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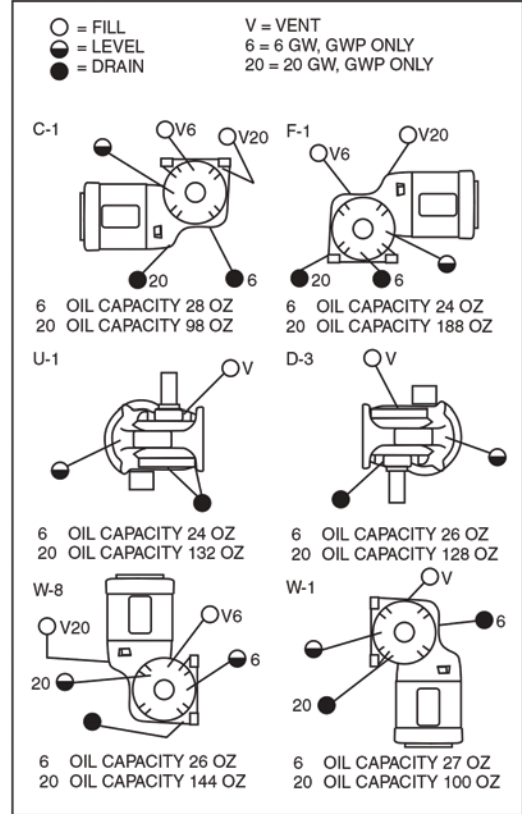
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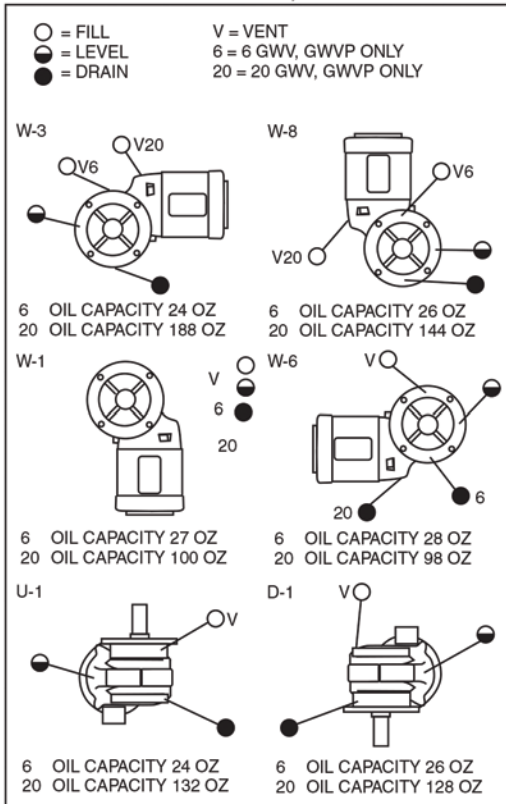
1 GWO, GWP



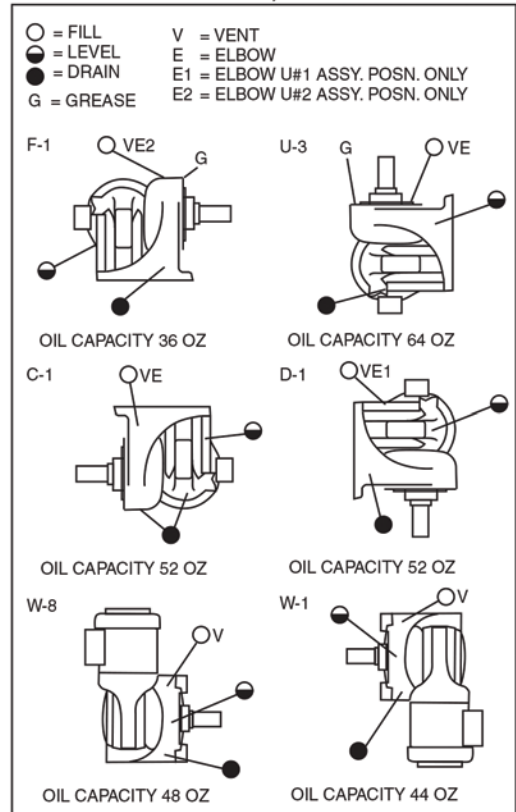
6 & 20 GW, GWP



6 & 20 GWV, GWVP



6 GWB, GWBP



Disconnect all power before adjusting units.

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