

LUBRICANT	INTERVAL	AMOUNT
Mobilgear 627 (ISO VG100) or equivalent	Initial: After 100 hours Subsequent: 2,000 hours or every 6 months under normal operating conditions NOTE: <b>Clean magnetic drain plugs with each oil change</b>	½ Sight Glass

**LUBRICATION:**

All gearboxes are shipped lubricated. Ensure that lubrication has not leaked during shipping. If there are indications that lubrication has leaked:

Contact NIRECO America Corporation (845-856-4053) **IMMEDIATELY**. Do not mount and use gearbox until contacting manufacturer.

After the initial 100 hours of operation drain out initial oil, flush out the gearbox with an approved non-flammable, non-toxic solvent and refill. Thereafter, oil should be changed every 2,000 operating hours or every six months, whichever come first. If gearbox is operating in extremely dirty or high or low temperature environment, change oil more often.

Lubrication procedure:

1. Remove a breather or pipe plug that is located above the sight glass level.
2. Remove the lowest drain pipe plug.
3. Let all of the lubrication drain into a container.
4. Remove all of the *magnetic* drain plugs. These plugs are all silver colored.
5. Clean all of the magnetic drain plugs.
6. Inspect the drained fluid for metal particles or other signs of excessive wear. If excessive wear is found, contact the manufacturer before replacing the gearbox.
7. Replace all of the pipe plugs below the sight glass.
8. Add oil until the level is one-half ( ½ ) of the sight glass.

**INSTALLATION:**

Because of varying requirements, mounting hardware is not supplied with units. Good quality cap screws with lock washers should always be used. Base and fasteners for gearboxes must be rigid enough to maintain alignment.

Venting –Included with each gearbox is a vent kit. It is advisable to install the vent in place of one pipe plug above the fluid level in a convenient location.

Alignment – When installing care should be taken to align input and output shafts vertically and horizontally with connecting shafts. A flat and even mounting surface will help prevent uneven base hole bolt pressures. Flexible couplings will help compensate for minor variations in shaft alignment.

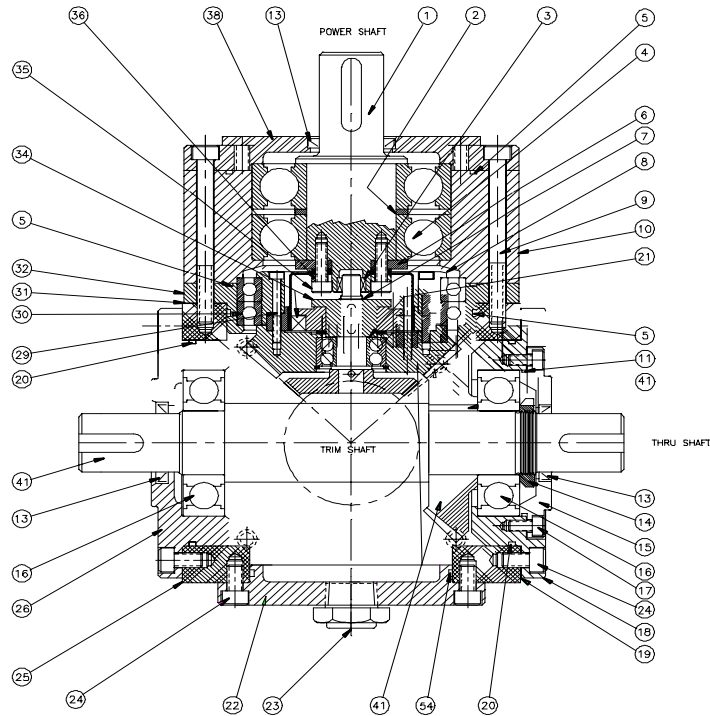
Couplings – Flexible couplings to pinion and cross shafts are recommended because they minimize bearing and gear wear caused by slight misalignment. Follow coupling and manufacturer’s installation directions.

Sheaves and sprockets - When mounting sheaves or sprockets, the center of the load should be located as close to the gearbox as possible. Excessive overhung loading could result in early failure of bearings. Refer to the general catalog or contact your local distributor for overhung load.

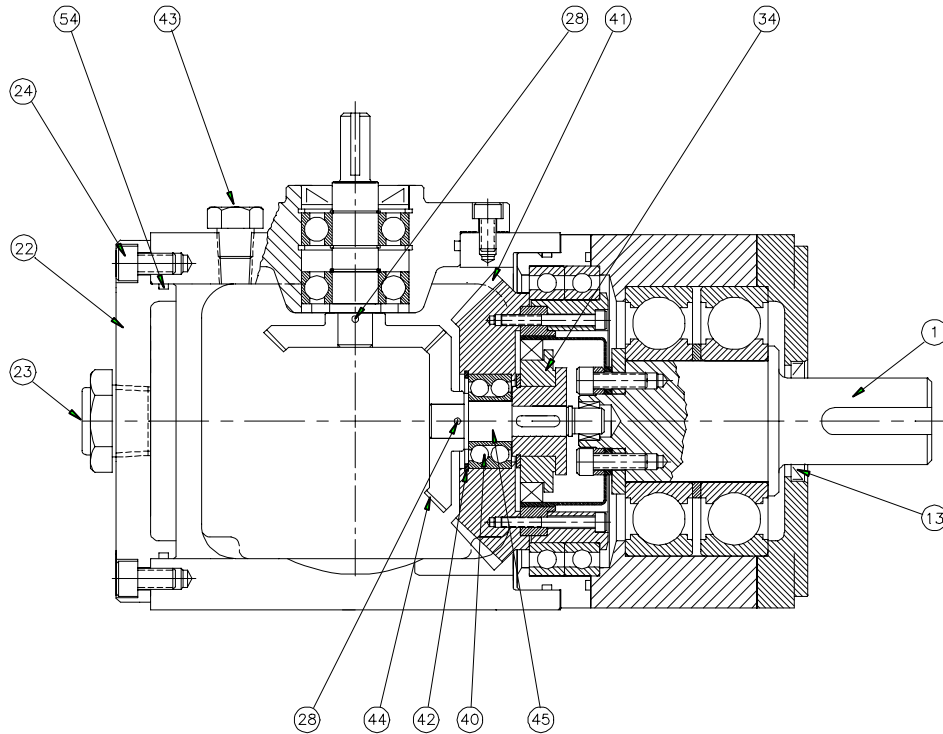
**PREVENTATIVE MAINTENANCE:**

Keep shafts and vent plug clean to prevent foreign particles from entering seals or gear case. Inspect periodically for oil leaks. Check couplings, setscrews and gearbox bolts for tightness (loose fasteners can cause alignment problems and excessive wear). Check endplay in shafts. Noticeable movement might indicate service or parts replacement.

**PART ORDERING INFORMATION:** When ordering parts, please provide model and serial number located on the gearbox nameplate along with item number and description of parts.

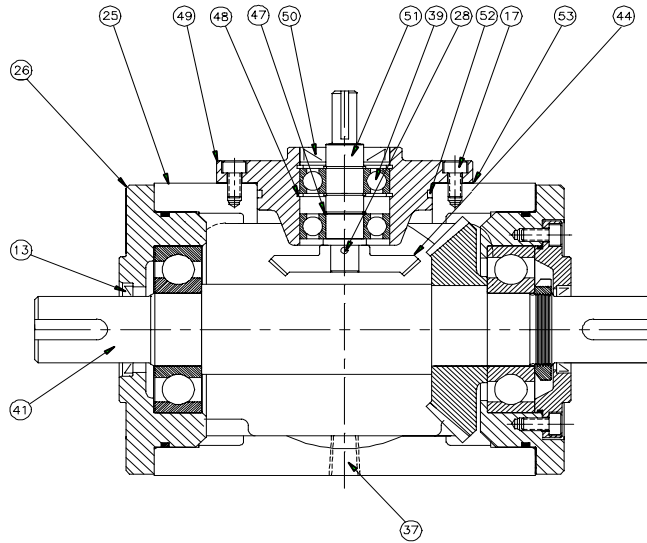


ITEM	QTY.	DESCRIPTION	ITEM	QTY.	DESCRIPTION
01	01	SHAFT	20	02	O-RING
02	01	SPACER	21	01	SHIM
03	01	BEARING	22	01	COVER
04	02	BEARING	23	01	GAUGE
05	03	O-RING	24	12	SCREW
06	01	SPACER	25	01	CASE
07	01	RETAINING RING	26	01	BEARING CAP
08	01	CARRIER	29	06	SCREW
09	06	SCREW	30	02	BEARING
10	01	HOUSING	31	03	SHIM
11	01	O-RING	32	01	DIVIDER
13	03	SEAL	34	01	HARMONIC DRIVE
14	01	BEARING NUT	35	08	SCREW
15	01	COVER	36	01	CLAMP
16	02	BEARING	38	01	COVER
17	08	SCREW	41	01	GEARSET & SHAFT ASSEMBLY
18	01	BEARING CAP	54	01	O-RING
19	03	SHIM			



SIDE VIEW

ITEM	QTY.	DESCRIPTION	ITEM	QTY.	DESCRIPTION
01	01	SHAFT	40	01	BEARING
13	03	SEAL	41	01	GEAR SET
22	01	COVER	42	01	RETAINING RING
23	01	GAUGE	43	01	VALVE
24	12	SCREW	44	01	GEAR SET & SHAFT ASSEMBLY
28	02	DOWEL PIN	45	01	SHAFT
34	01	HARMONIC DRIVE	54	01	O-RING



BACK VIEW

ITEM	QTY.	DESCRIPTION	ITEM	QTY.	DESCRIPTION
13	03	SEAL	41	01	GEARSET & SHAFT ASSEMBLY
17	08	SCREW	47	03	RETAINING RING
25	01	CASE	48	02	RETAINING RING
26	01	BEARING CAP	49	01	HOUSING
28	02	DOWEL PIN	50	01	SEAL
37	02	PLUG	51	01	SHAFT
39	02	BEARING	52	01	O-RING
44	01	GEAR SET	53	03	SHIM