



Series W Installation & Maintenance

Satisfactory performance depends on proper installation, lubrication and maintenance. All instructions given in the installation leaflet must be followed carefully.

Shaft Mounting

Ensure that the shaft on to which the gear unit is to be mounted and the gear unit bore are clean and free from burrs. Liberally smear the shaft and bore with lubricants to aid assembly and prevent fretting corrosion. Slide the unit on to the driven shaft fit side fitting key. **DO NOT USE TAPER OR TOP FITTING KEY.**

Foot Mounting

Mount the unit securely to a rigid structure. Fit the output extension shaft as required use flexible couplings such as Fenaflex for shaft to shaft connections and ensure that shaft misalignment is within the couplings capacity. When a pulley or sprocket is fitted to either shaft, mount it as close as possible to the gearcase.

When fitting or removing drive components do not hammer on shaft as this will damage the bearings, Fenner Taper Lock bushes permit easy fixing and dismantling without undue force.

LUBRICATION CAPACITY

Unit size	All Positions	Mounting Position	Unit Size		
			748	749	750
740	0.02				
741	0.04				
742	0.08	B3	3.0	4.5	7.0
743	0.15	B8	2.2	3.3	5.1
744	0.30	B6-B7	2.5	3.5	5.4
745	0.55	V5	3.0	4.5	7.0
746	1.00	V6	2.2	3.3	5.1
747	1.60				

LUBRICATION

Sizes 740 to 747 are pre-filled with IP TELIUM VSF 320 a synthetic gear oil suitable for permanent lubrication. They can be mounted in any position. Sizes 745, 746 & 747 should not be installed in the V5 or V6 position without prior consultation.

The synthetic oil used is suitable for ambient temperatures between -25°C and +50°C

Sizes 748, 749 and 750 are pre-filled for mounting position B3 with IP MELLANA OIL 220, a mineral based gear oil. Other mounting positions must be specified on order.

The Mineral oil used is suitable to operate in ambient temperatures between -15°C and +25°C

Helical Worm Gear Unit

The helical modules are supplied as a sealed for life unit complete with a long-life synthetic oil, AGIP TELIUM VSF320 and can be mounted in all positions.

The lubrication is separate from that of the worm gear unit.

Worm Worm Combination Units

When using a worm worm combination unit both gearboxes are lubricated separately.

Both units are supplied lubricated up to size 747, on sizes above 747 the small unit will be supplied lubricated, the large one not.

Use the mounting position detail below and fill to the required level.

BREATHERS/MOUNTING POSITIONS

Sizes 740 to 747 are supplied for operation without breathers, level & drain plugs.

Sizes 748 to 750 are supplied for operation with a breather but are dispatched with a closed transport plug. When the unit is in its operating position it is essential to replace the transport plug with the breather plug (supplied) in the position indicated on the installation leaflet prior to operating the unit.

MAINTENANCE

The high quality of Series W ensures that the unit will operate correctly with only the minimum amount of maintenance. Periodically check that the exterior of the assembly is clean, especially the cooling areas; periodically check for any oil leaks especially around the oil seals.

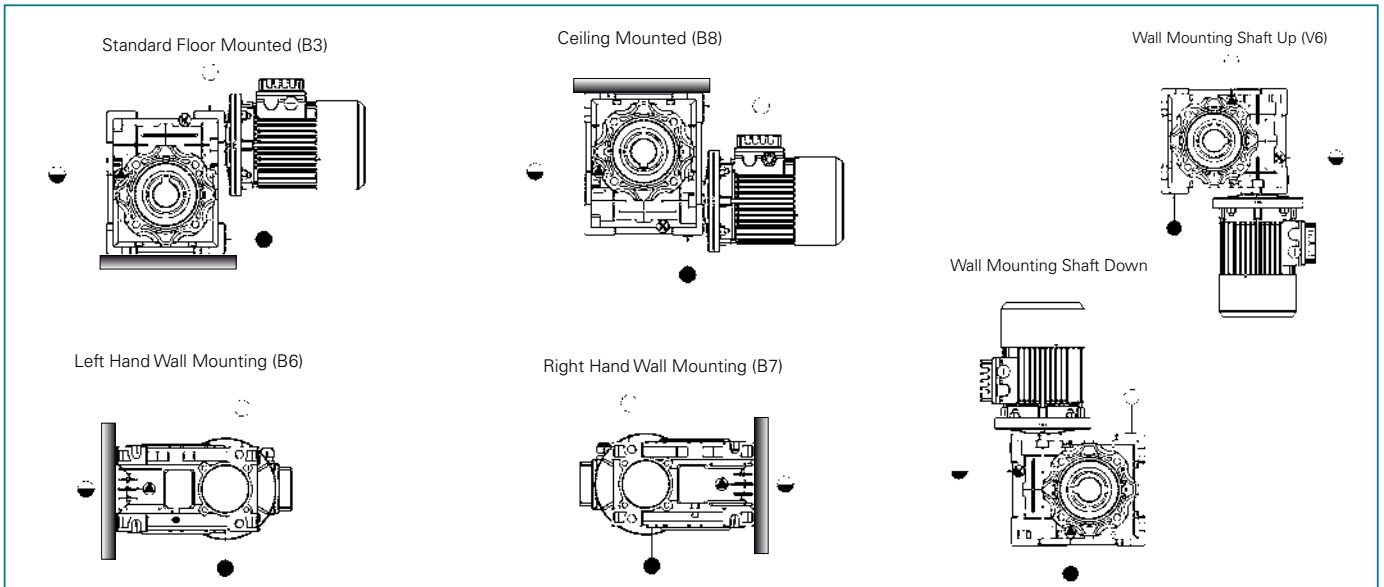
Sizes 740 to 747 are lubricated for life and do not require any special maintenance other than stated above.

Sizes 748 to 750 will require an oil change between 8/10000 hours of use depending on the type of environment and use. Make sure the breather hole in the plug is clean and using the oil window, check for sufficient lubricant. Should it be necessary to top up the lubricant use the same type that is already in the unit or one that is compatible with it. If in doubt we recommend you empty the oil from the gearbox completely and before refilling with new oil, wash out the unit to remove any residue.

RECOMMENDED TYPES

Supplier	Synthetic Oil		Mineral Oil	
	Operating Temp. °C		Operating Temp. °C	
	-25°C to +50°C		-5°C to +40°C	-15°C to +25°C
AGIP	TELIUM VSF 320	BLASIA 460	BLASIA 220	
BP	ENERGOL SG-XP320	ENERGOL GR-XP 460	ENERGOL GR-XP 220	
CASTROL	ALPHASYN PG320	ALPHA MAX 460	ALPHA MAX 220	
ESSO	S220	SPARTAN EP 460	SPARTAN EP 220	
MOBIL	GLYGOYLE 30	MOBILGEAR 634	MOBILGEAR 630	
SHELL	TIVELA OIL SC320	OMALA OIL 460	OMALA OIL 220	

MOUNTING POSITIONS



○ Ventilator/Filling Position ● Level Position ● Drain Position