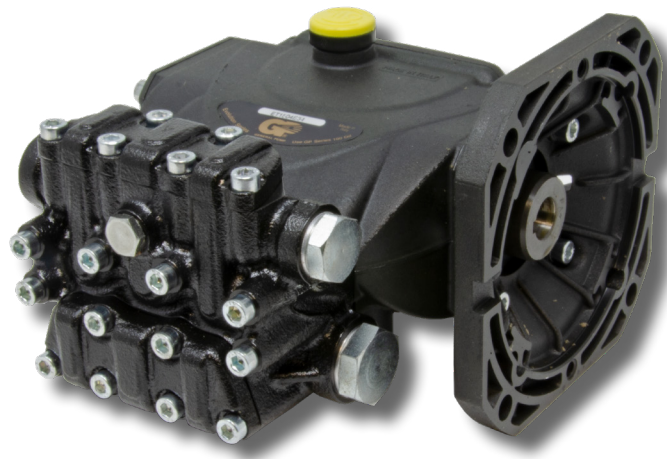


FEATURES

- “HR” anti-corrosion surface treatment on manifold
- New generation seal package
- Dust protection chamber
- Solid ceramic plungers
- Oversized plunger guide
- Optimized inlet and outlet valves
- Oversized crankcase
- Hollow shaft, flanged for direct couple to electric motors (NEMA56C)



SPECIFICATIONS

Pump Model	ET1509E17	ET1807E17	ET1809E17	ET1504E34	ET1505E34	ET1506E34	ET1507E34
Max Volume	2.1 GPM	2.4 GPM	3.2 GPM	1.85 GPM	2.1 GPM	2.9 GPM	3.2 GPM
Max Discharge Pressure	2,610 PSI	2,320 PSI		2,610 PSI			
Horsepower	3.7 EBHP	3.8 EBHP	5.0 EBHP	3.6 EBHP	3.7 EBHP	5.2 EBHP	5.6 EBHP
Max Pump Speed	1700 RPM			3400 RPM			
Inlet Pressures	Flooded to 70 PSI						
Plunger Bore (in / mm)	.591 in./15 mm	.708/18 mm		.591 in./15 mm			
Plunger Stroke (in / mm)	.370 in./9.4 mm	.283 in./7.2 mm	.370 in./9.4 mm	.157 in./4 mm	.197 in./5 mm	.256 in./6.5 mm	.283 in./7.2 mm
Oil Capacity	8.5 oz.						
Max Fluid Temperature	165° F						
Inlet Port Thread	1/2"-14 BSP-F						
Discharge Port Thread	3/8"-19 BSP-F						
Shaft Diameter	5/8" Hollow						
Weight	11.0 lbs.						
Dimensions - Nominal	7.3" x 7.4" x 5.5"						



Instructions and Recommendations for the Installation of *ET Series Pumps*

Maximum temperature of the water through the pump is 165°F (73°C).

In order to obtain maximum performance in terms of duration of seals and valves, it is necessary to respect a few simple rules, as follows:

- 1) **In order to avoid damage caused by cavitation, the pump must be pressure fed.**

Note: Contact General Pump's technical sales department for guidance when operating the pump outside of the related inlet specs.

- 2) **The plumbing which feeds the pump must be of a diameter at least equal to the inlet port.**

Also, follow the suggestions below:

- a) Make the plumbing as short and straight as possible, preferably in an upward direction to facilitate the expulsion of eventual air bubbles naturally if compatible with the requirements of the system.
- b) It is always useful to put a filter at the inlet with capacity of 4 to 5 times the flow of the pump, for example for a 4 gpm (15 l/min) pump, put a filter from 16 to 20 gpm (60-75 l/min). The mesh size suitable for this application is 0.016" (.4 mm).
- c) It is extremely important to put a pressure switch on the suction port of the pump, and in any case downstream from the filter, so that it can stop the pump should the feed pressure drop by 20% due to the filter clogging or failure of the feed pump, etc.

- 3) **Change of oil**

We recommend the **first oil change after the first 50 hours**, with the **pump stopped** and the **oil still warm**.

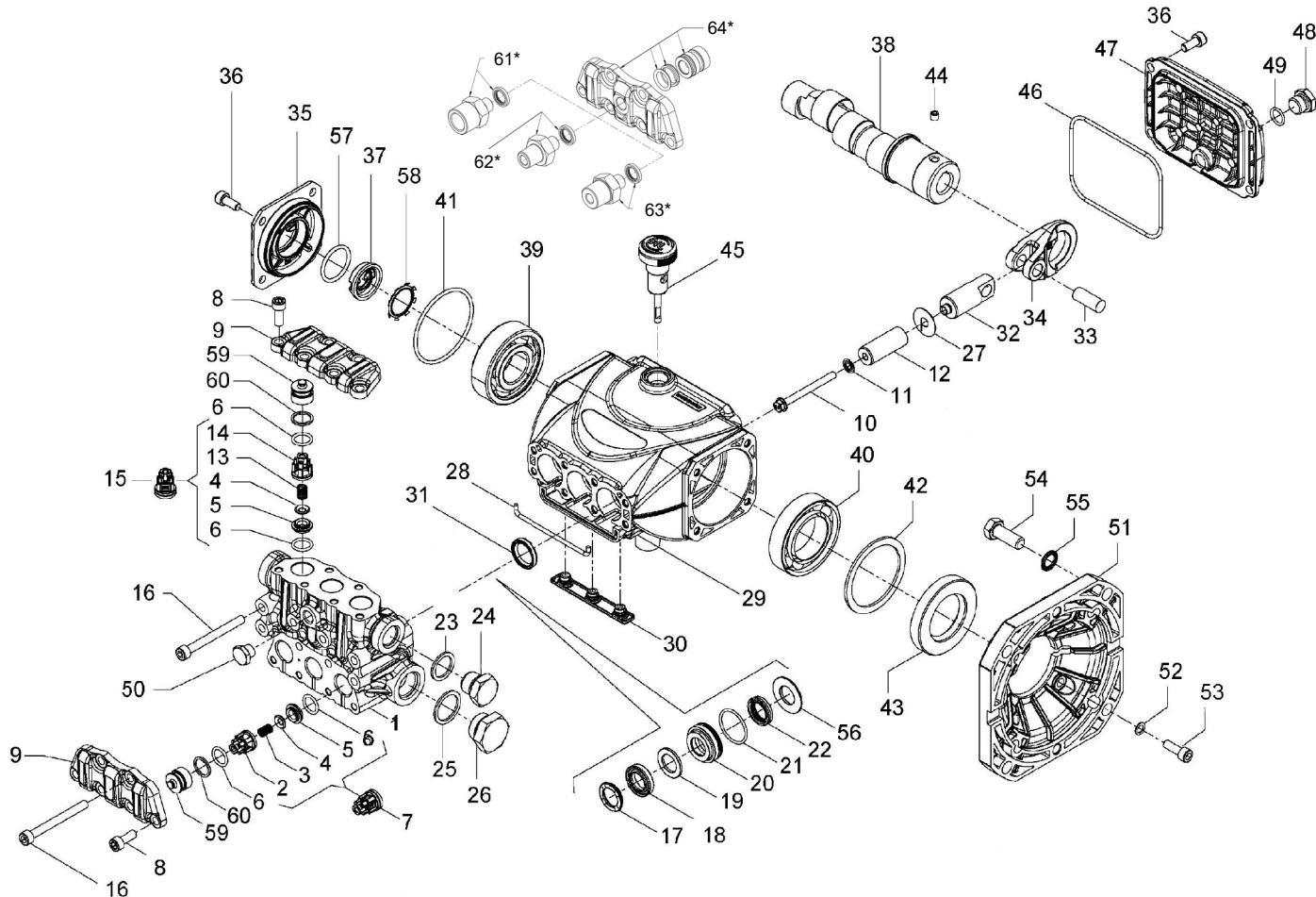
This change is not recommended because the oil has lost its properties, but rather to eliminate the impurities that have gotten into the oil during the running-in phase. If these impurities are not removed, but are allowed to remain in the oil, they *may cause premature wear* to the moving parts and the oil seals. **After this initial change, the oil can then be changed every three months or 300 hours of operation thereafter.**

Please note: If the pump works in conditions with high humidity and with sharp temperature changes, it is possible that condensation will appear inside the crankcase, which mixing with the oil can change its properties. This is easy to see because the oil changes to a white, milky color.

If the pump does not have excessive water leaking from the packings, and the oil becomes milky, the oil has to be changed more frequently. The percentage of water in the oil must not exceed 20%.

Use oil per the following chart:

CHART OF COMPATIBLE OILS	
General Pump	Series 100
BP	VISCO 2000
CASTROL	CWX
MOBIL	SUPER
SHELL	HELIX SUPER
TOTAL	QUARTZ 4000-5000



PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1.	53122115	Manifold, Ø 15	1	22.	90260800	Packing, Ø15x22x5, LP	3	39.	91832800	Bearing Ø15-18	1
	53122215	Manifold, Ø 18	1		90265000	Packing, Ø18x24x5, LP	3	40.	91846400	Bearing Ø15-18	1
2.	36211951	Inlet Valve Guide	3		710030	Packing, Ø15, LP	3	41.	90389800	O-ring, Ø56.82x2.62	1
3.	94732600	Spring, Ø 6x12	3		710032	Packing, Ø18, LP (K229)	3	42.	60210189	Spacer	1
4.	36211272	Valve, Spherical	6	23.	96738000	Washer, Ø17.5x23x1.5	1	43.	90167500	Stop Ring Ø35x62x10	1
5.	36211366	Valve Seat	6	24.	98210050	Plug, 3/8"x13	1	44.	99179000	Screw M6x06	1
6.	90367400	O-ring, Ø12x2	6	25.	96751400	Washer, 21.5x27x1.5	1	45.	98210800	Oil Dipstick G 3/8"x45	1
7.	36722401	Valve Assembly	3	26.	98218700	Plug, 1/2"x10	1	46.	90391700	O-ring, Ø88.57x2.62	1
8.	99185400	Screw, M6x16	10	27.	96699000	Gasket, Ø 7.5x23x0.5	3	47.	53160022	Rear Cover	1
9.	53211815	Valve Cover	2	28.	53210382	Gasket, Ø3x85	1	48.	98204250	Plug, 3/8"x9	1
10.	99169000	Plunger Bolt, M5x55	3	29.	53010022	Crankcase	1	49.	701013	O-ring, Ø 10.82x1.78	1
11.	96690500	Washer, Ø 5x11.5x0.4	3	30.	58210451	Drip Cover	1	50.	98196800	Plug, 1/8"x8	1
12.	53040009	Plunger, Ø 15x38.5	3	31.	90159300	Oil Seal, Ø 18x24x4	3	51.	10034422	Flange for Electric Motor	1
	63040509	Plunger, Ø 18x38x8.5	3	32.	53050066	Piston Guide	3	52.	96693800	Washer Ø6.4x10x0.7	4
13.	94733300	Spring, Ø 6.2x10.4	3	33.	97733800	Piston Pin, Ø 10x26.5	3	53.	99186700	Screw M6x18	4
14.	36211151	Outlet Valve Cage Guide	3	34.	53030022	Connecting Rod	3	54.	99334500	Screw 3/8"x16	4
15.	36719301	Complete Outlet Valve	3	35.	53150022	Side Cover Housing	1	55.	96710400	Washer Ø 10.5x16x1	4
16.	99199600	Screw, M6x70	8	36.	99183700	Screw M6x14	8	56.	53210770	Support Ring, Ø 18	3
17.	63101051	Head Ring, Ø 15	3	37.	53210851	Oil Level Indicator	8	57.	90385900	O-ring Ø 25.07x2.62	1
	63101151	Head Ring, Ø 18	3	38.	60022465	Crankshaft, Ø 5 (ET1505E34)	1	58.	90067100	Stop Ring	1
18.	90261100	Packing, Ø15x24x5.4/3.4HP	3		60022765	Crankshaft, Ø 6.5 (ET1506E34)	1	59.	36217851	Inlet/Outlet Valve Cap	6
	90265350	Packing, Ø18x28x6/3.7HP	3		60022265	Crankshaft, Ø 4.0 (ET1504E34)	1	60.	90509300	Stop Ring, Ø 16.4x13.2x1.3	6
	710031	Packing, Ø 15, HP (K312H, K313H)	3		60022965	Crankshaft, Ø 7.2 (ET1807E17, ET1507E34)	1	61.*	101162	Kit, ADTR, 1/4"-F, SS, W/Seal	1
	710033	Packing, Ø 18, HP (K229)	3		60023465	Crankshaft, Ø 9.4 (ET1509E17, ET1809E17)	1	62.*	101157	Kit, ADTR, 1/4"-M, SS, W/Seal	1
19.	90508990	Anti-ext. Ring, Ø15x24x2	3					63.*	101158	Kit, ADTR, 3/8"-K, SS, W/Seal	1
	90511150	Anti-ext. Ring, Ø18x28x2	3					64.*	K423	Kit, Tapped Valve Plate W/ Valve Spacer & Seals	1
20.	53210170	Support Ring, Ø 15x24x2	3								
	53210270	Support Ring, Ø 18	3								
21.	90360400	O-ring, Ø25.12x1.78	3								

* Optional Parts

** 53150001 Oil Level Indicator Assembled W/O Screws and O-ring

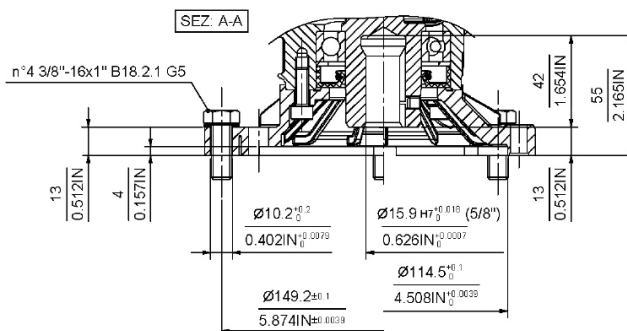
TORQUE SPECS*

Pos.	Ft.-Lbs.	Nm.
8	8.9	12
10	4.4	6
16	8.9	12
24**	30	40
26	30	40
36	7.4	10
48	14.8	20
50**	9.6	13
53	7.3	10

*Decrease torque by 20% if threads are lubricated.

****Use Loctite 542 Red**

DIMENSIONS



WARNING: This product can expose you to chemicals including lead, which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov