

Triplex Plunger Pump, 1" Hollow Shaft

FEATURES

- Triplex plunger pump
- New Forged brass manifold , increases working pressure to 4,000 PSI
- New plunger guide bushing (patent pending)
- Solid ceramic plungers with dual guide system
- New dual diameter plunger guide
- New optimized outlet valves
- New dual lip oil seal
- 1" Hollow shaft, flanged for direct couple to gas engines (SAE J609B)



SPECIFICATIONS

Pump Model	EP1506G8	EP1508G8	EP1509G8	EP1510G8	EP1306G8	EP1308G8	EP1309G8	EP1310G8	EP1311G8	EP1313G8
Maximum Volume	2.9 GPM	3.4 GPM	3.7 GPM	4.2 GPM	2.1 GPM	2.6 GPM	2.9 GPM	3.2 GPM	3.4 GPM	4.0 GPM
Maximum Discharge Pressure	3,045 PSI		3,000 PSI		4,000					
Horsepower	6.0 HP	7.1 HP	7.6 HP	8.7 HP	5.7 HP	7.1 HP	7.9 HP	8.6 HP	9.3 HP	10.7 HP
Maximum Pump Speed	3400 RPM									
Maximum Inlet Pressure	125 PSI									
Max. Inlet Vacuum	Flooded									
Plunger Bore	.591 in/15 mm				.512 in/13 mm					
Plunger Stroke	.236 in./6 mm	.315 in./8 mm	.354 in./9 mm	.394 in./10 mm	.236 in./6 mm	.315 in./8 mm	.354 in./9 mm	.394 in./10 mm	.433 in./11 mm	.512 in./13 mm
Oil Capacity	15 oz.									
Maximum Fluid Temperature	165° F									
Inlet Port Thread	1/2"-14 BSP-F									
Discharge Port Thread	3/8"-19 BSP-F									
Shaft Diameter	.945 in./24 mm									
Weight	15.4 lbs.									
Dimensions	9.5"x9.5"x6.45"									

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General Pump
is a member of
the Interpump Group

Ref 300922 Rev.A
02-13



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

Maximum temperature of the water through the pump is 165°F (85°C).

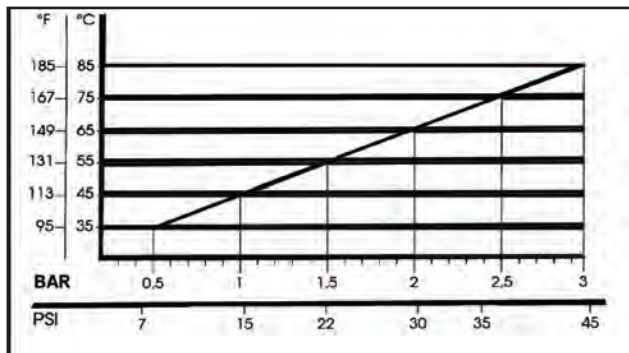
In order to obtain maximum performance in terms of duration of seals and valves, it is necessary to respect a few simple rules, as follows:

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

The higher the inlet pressure, the longer the life of the wet end of the pump.

When working at 185°F (85°C), the minimum feed pressure - measured directly in the inlet port of the pump when it is working - is 45 psi (3 bar).

The minimum feed pressure according to the different temperatures are:



Naturally, if the application allows for feeding the pump with 45 psi (3 bar) even at low temperatures (for example: 115°F/45°C the life of the wet end of the pump will be even longer).

- 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**.

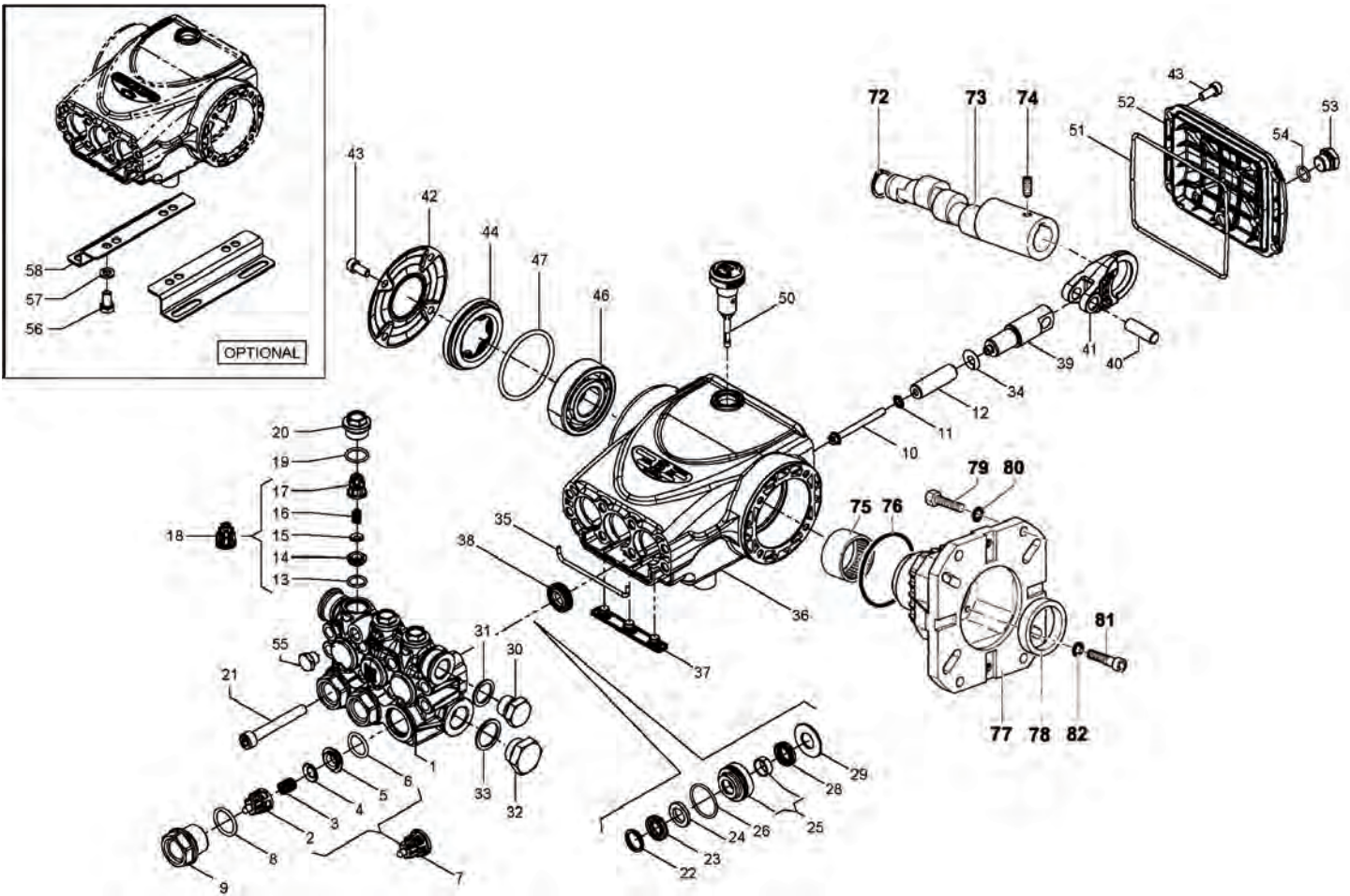
This change is not recommended because the oil has lost its properties, but rather to eliminate the impurities that have gotten into the oil during the running-in phase. If these impurities are not removed, but are allowed to remain in the oil, they *may cause premature wear* to the moving parts and 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 SAE15W40	
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.	58120041	Manifold, Ø 13	1	24.	90507650	Anti-ext. Ring, Ø 13	3	51.	90392550	O-ring, Ø 113.97x2.62	1
	58120141	Manifold, Ø 15	1		90508990	Anti-ext. Ring, Ø 15	3	55.	98196600	Plug, 1/8"x8	1
2.	36202551	Valve Cage	3	25.	58605601	Intermed. Ring, Ø 13	3	56.	99303700	Screw, Hex Head	4
3.	94737600	Spring, Ø 9.4x14.8	3		58605701	Intermed. Ring, Ø 15	3	57.	96701600	Washer, Ø 8.4	4
4.	36711501	Valve	3	26.	701023	O-ring, 26.7x1.78	3	58.	50200074	Pump Foot	2
5.	36200366	Valve Seat	3	28.	90260100	Seal, Ø 13, LP	3	72.	90063500	Circlip, Ø 25	1
6.	90384100	O-ring, Ø17.13x2.62	3		90260800	Seal, Ø 15, LP	3	73.	63027765	Crankshaft, 6.5 mm	1
7.	36711501	Valve Assembly	3	29.	58210670	Support Ring, Ø 13	3			(EP1506G8, EP1306G8)	
8.	701002	O-ring, Ø20.24x2.62	3		58210770	Support Ring, Ø 15	3	63028065	Crankshaft, 8 mm	1	
9.	98222600	Valve Cap, M24x1.5x16.7	3	30.	98210000	Plug, 3/8"x13	1			(EP1508G8, EP1308G8)	
10.	99169000	Plunger Bolt, M5x55	3	31.	96738000	Gasket, 17.5x23x1.5	1	63028265	Crankshaft, 9 mm	1	
11.	96690500	Washer, Ø 5x11.5x0.4	3	32.	98217600	Plug, 1/2" BSPx10	1			(EP1309G8, EP1509G8)	
12.	58040009	Plunger, Ø 13x42	3	33.	96751400	Gasket, Ø 21.5x27x1.5	1	63028465	Crankshaft, 10 mm	1	
	58040109	Plunger, Ø 15x42	3	34.	96698000	Washer, Ø 7.5x15x0.5	3			(EP1510G8, EP1310G8)	
13.	90358900	O-ring, Ø 12.42x1.78	3	35.	58210582	Gasket, Ø 3x94	1	63029265	Crankshaft, 11 mm	1	
14.	36211366	Outlet Valve Seat	3	36.	58010022	Crankcase	1			(EP1311G8)	
15.	36211276	Outlet Valve Poppet	3	37.	58210451	Drip Cover	1	63029065	Crankshaft, 13 mm	1	
16.	94733300	Spring, Ø 6.2x10.4	3	38.	90156550	Oil Seal, Ø 15x24x5.7	3			(EP1313G8)	
17.	36211151	Outlet Valve Cage Guide	3	39.	58050066	Piston Guide	3	74.	99179000	Set Screw, M6x6	1
18.	36719301	Complete Outlet Valve	3	40.	97734000	Piston Pin, Ø 10x29.5	3	75.	91856800	Needle Bearing	1
19.	701016	O-ring, Ø 15.6x1.78	3	41.	58030022	Connecting Rod	3	76.	90409700	O-ring	1
20.	98213700	Outlet Valve Cap, M18x1.5x10	3	44.	44211801	Sight Glass	1	77.	10051822	Flange	1
21.	99317500	Screw, M8x60	8	47.	90409700	O-ring, Ø 55.56x3.53	1	78.	90168700	Oil Seal, Ø 45x60x8	1
22.	44100251	Head Ring, Ø 13	3	50.	98210500	Oil Dipstick	1	79.	99275500	Screw, Hex Head	4
	63101051	Head Ring, Ø 15	3	52.	58160022	Rear Cover	1	80.	203476	Washer, Ø 8.4x15x1.5	4
23.	90260200	Packing, Ø 13, HP	3	53.	98204100	Plug, 1/4"x9	1	81.	99191200	Screw, M6x30	4
	90261100	Packing, Ø 15, HP	3	54.	701013	O-ring, Ø 10.82x1.78	1	82.	203510	Washer, Ø 6.4x10x.7	4

REPAIR KITS

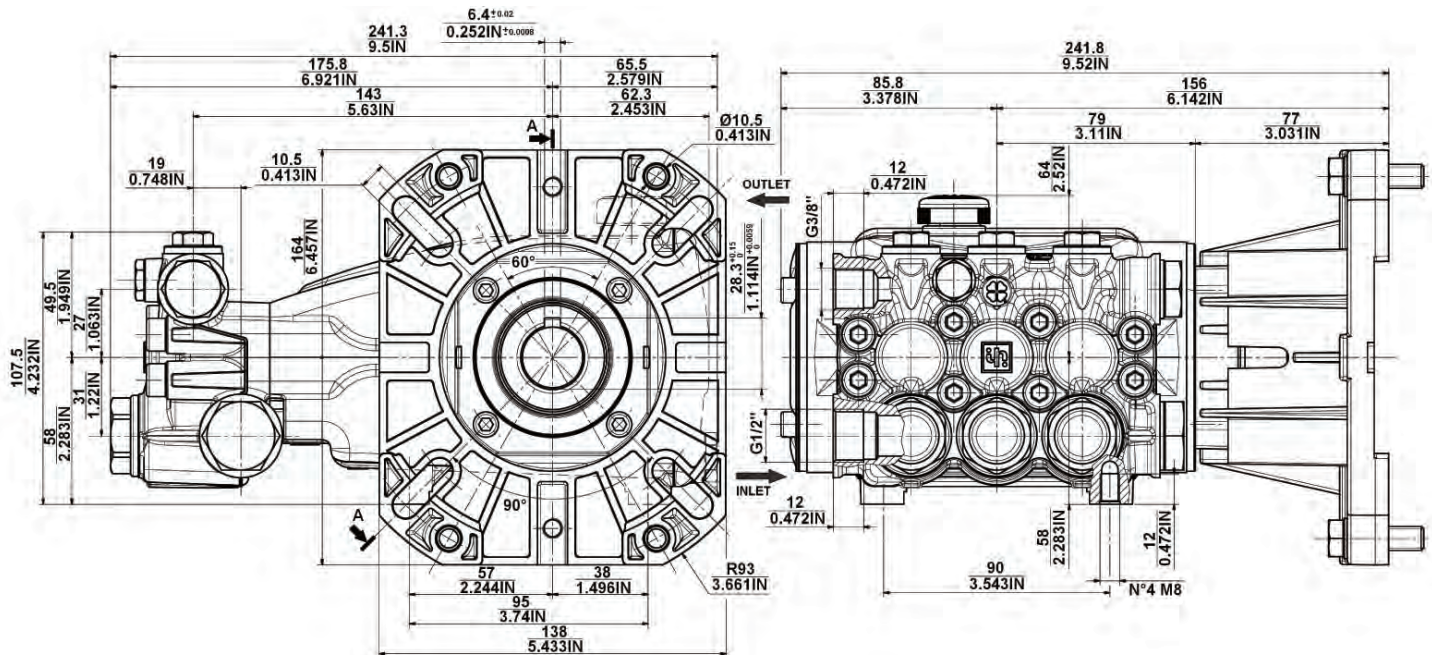
KIT NO.	K269	K270	K271	Ø 13		Ø 15	
				K272	K275	K273	K276
ITEM NO'S INCLUDED IN KIT	2, 3, 4, 5, 6, 13, 14, 15, 16, 17, (7), (18)	8, 9, 19, 20	38	22, 23, 24, 26, 28	22, 23, 24, 25, 26, 28, 29	22, 23, 24, 26, 28	22, 23, 24, 25, 26, 28, 29
NUMBER OF ASSY'S IN KIT	6	6	3	3	1	3	1
NO. OF CYLINDERS KIT SERVICES	3	3	3	3	1	3	1

TORQUE SPECS*

Position	Ft.-Lbs.	Nm.
9	96	130
10	4.5	6
20	26	35
21	14.8	20
30	30	40
32	30	40
43	7.4	10
53	14.8	20
55	9.6	13
56	14.8	20
81	7.4	10

*Decrease torque by 20% if threads are lubricated.
**Use Loctite 542 Red

DIMENSIONS



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