

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
- Hollow shaft, flanged for direct couple to electric motors (NEMA184TC))



SPECIFICATIONS

Pump Model	EP1510E17	EP1512E17	EP1810E17	EP1811E17	EP1812E17
Max Volume	2.4 / 4.2 GPM	2.9 GPM	3.4 GPM	3.7 GPM	4.0 GPM
Max Discharge Pressure	3,045 PSI		2,500 PSI		
Horsepower	4.4 HP	6.0 HP	5.7 HP	6.2 HP	6.6 HP
Max Pump Speed	1750 / 3400 RPM	1750 RPM			
Max Inlet Pressure	125 PSI				
Max Inlet Vacuum	3 ft. water (2.6 Hg)				
Plunger Bore	.591 in./15 mm		.709 in./18 mm		
Plunger Stroke	.394 in./10 mm	.472 in./12 mm	.394 in./10 mm	.433 in./11 mm	.472 in./12 mm
Oil Capacity	15 oz.				
Max Fluid Temperature	165° F				
Inlet Port Thread	1/2"-14 BSP-F				
Discharge Port Thread	3/8"-19 BSP-F				
Shaft Diameter	1.125 in./28.58 mm				
Weight	15.4 lbs.				
Dimensions	9.7" x 8.45" x 6.3"				



General Pump
is a member of
the Interpump Group



Ref 300921 Rev. L
11-23



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

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

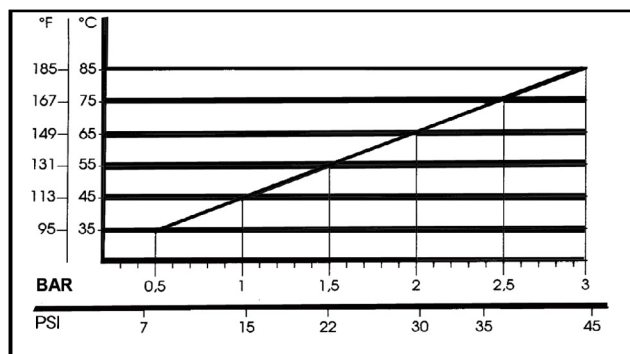
In order to obtain maximum performance in terms of duration of seals and valves, it is necessary to respect a few simple rules, as follows:

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

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

When working at 165°F (73°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**.

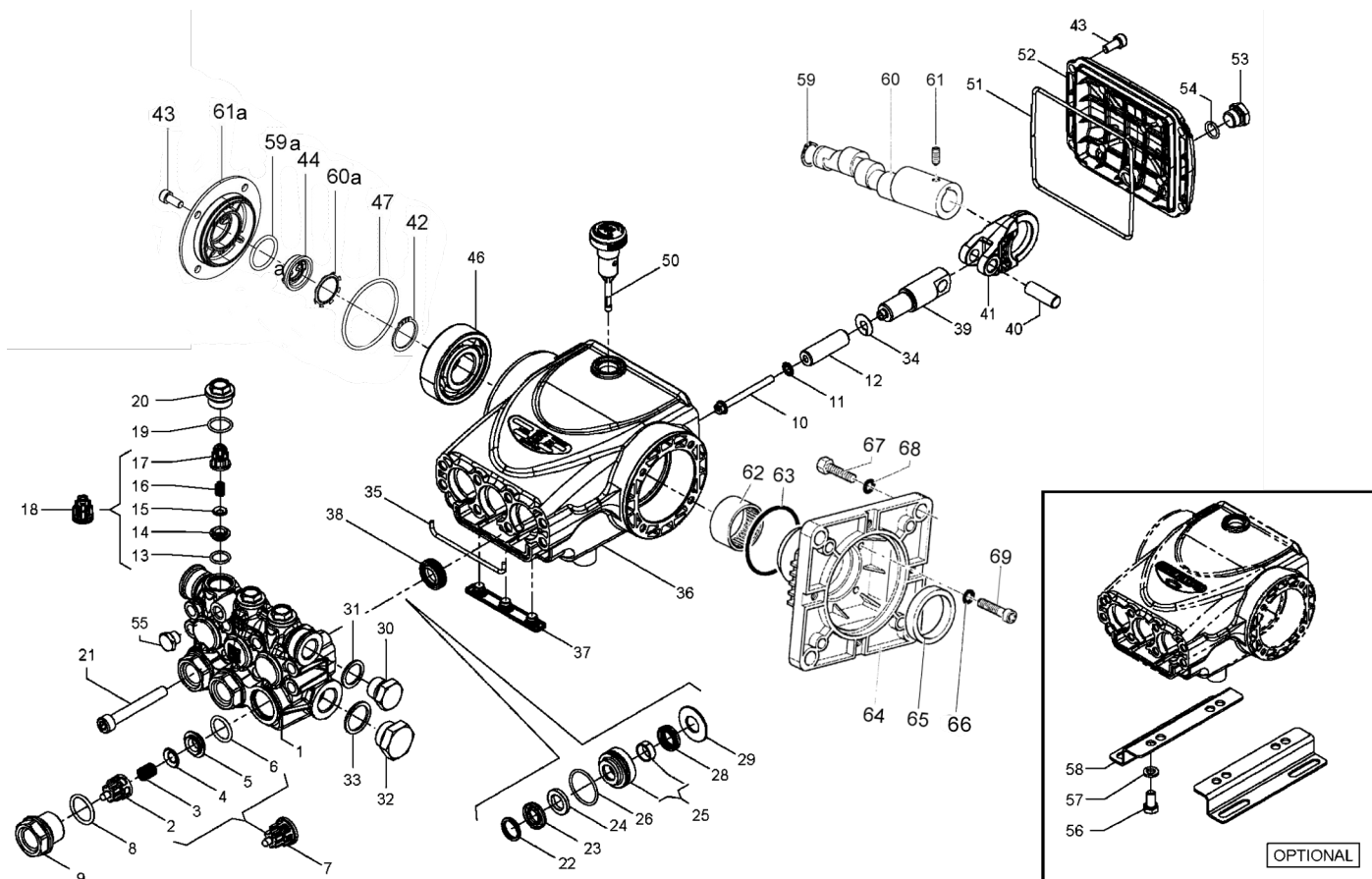
This change is not recommended because the oil has lost its properties, but rather to eliminate the impurities that have gotten into the oil during the running-in phase. If these impurities are not removed, but are allowed to remain in the oil, they *may cause premature wear* to the moving parts and 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	
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.	58120141	Manifold, Ø 15	1	25.	58605701	Intermed. Ring, Ø 15	3	53.	98204100	Plug, 1/4"x9	1
	58120241	Manifold, Ø 18	1		58605801	Intermed. Ring, Ø 18	3	54.	701013	O-ring, Ø 10.82x1.78	1
2.	36202551	Valve Cage	3	26.	701023	O-ring, 26.7x1.78	3	55.	98196600	Plug, 1/8"x8	1
3.	94737600	Spring, Ø 9.4x14.8	3	28.	90260800	Seal, Ø 15, LP	3	56.	99303700	Screw, Hex Head	4
4.	36200176	Valve	3		90265000	Seal, Ø 18 LP	3	57.	96701600	Washer, Ø 8.4	4
5.	36200366	Valve Seat	3		710030	Seal, Ø 15 LP	3	58.	50200074	Pump Foot	2
6.	701115	O-ring, Ø17.13x2.62	3	29.	58210770	Support Ring, Ø 15	3	59.	90063500	Circlip	1
7.	36711501	Valve Assembly	3		58210870	Support Ring, Ø 18	3	59a.	90385900	O-ring Ø 56.82x2.62	1
8.	701002	O-ring, Ø20.24x2.62	3	30.	98210000	Plug, 3/8"x13	1	60.	63023265	Crankshaft, 10 mm	1
9.	98222600	Valve Cap, M24x1.5x16.7	3	31.	96738000	Gasket, 17.5x23x1.5	1		63023665	Crankshaft, 12 mm	1
10.	99169000	Plunger Bolt, M5x55	3	32.	98217600	Plug, 1/2" BSPx10	1			(EP1812E17, EP1512E17)	
11.	96690500	Washer, Ø 5x11.5x0.4	3	33.	96751400	Gasket, Ø 21.5x27x1.5	1		63029465	Crankshaft, 11 mm	1
12.	58040109	Plunger, Ø 15x42	3	34.	96698000	Washer, Ø 7.5x15x0.5	3			(EP1811E17)	
13.	58040209	Plunger, Ø 18x42	3	35.	58210582	Gasket, Ø 3x94	1	60a.	90067100	Stop Ring	1
14.	701014	O-ring, Ø 12.42x1.78	3	36.	58010022	Crankcase	1	61.	99179000	Set Screw, M6x6	1
15.	36211366	Outlet Valve Seat	3	37.	58210451	Drip Cover	1	61a.	58150122	Side Cover	1
16.	36211276	Outlet Valve Poppet	3	38.	90156550	Oil Seal, Ø 15x24x5.7	3	62.	91856800	Needle Bearing	1
17.	94733300	Spring, Ø 6.2x10.4	3	39.	58050066	Piston Guide	3	63.	90409700	O-ring, Ø 55.56x3.56	1
18.	36211151	Outlet Valve Cage Guide	3	40.	97734000	Piston Pin, Ø 10x29.5	3	64.	10050422	Electric Flange	1
19.	36719301	Complete Outlet Valve	3	41.	58030022	Connecting Rod	3	65.	90169000	Oil Seal, Ø 45x62x8	1
20.	701016	O-ring, Ø 15.6x1.78	3	42.	90063500	Stop Ring Ø 25	1	66.	203510	Washer, Ø 6.4x10x0.7	4
21.	98213700	Outlet Valve Cap, M18x1.5x10	3	43.	99183700	Screw M6x14	12	67.	99460000	Screw, Hex, 1/2"x1-1/4"	4
22.	99317500	Screw, M8x60	8	44.	53210851	Oil Level Indicator	1	68.	96719500	Washer, Ø 13x18x1.1	4
23.	63101051	Head Ring, Ø 15	3	46.	91833100	Prem Bearing	1	69.	99191200	Screw, M6x30	4
	63101151	Head Ring, Ø 18	3	47.	90389800	O-ring, Ø 56.82x2.62	1				
	90261100	Packing, Ø 15, HP	3	50.	98210500	Oil Dipstick	1				
	90265350	Packing, Ø 18, HP	3	51.	90392550	O-ring, Ø 113.97x2.62	1				
	710031	Packing, Ø 15, HP (K276H, K312H)	3	52.	58160022	Rear Cover	1				
24.	90508990	Anti-ext. Ring, Ø 15	3								

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

REPAIR KITS

KIT NO.	K269	K270	K271	Ø 15				Ø 18	
				K273	K276	K276H ¹ (Hot Kit)	K312H ¹ (Hot Kit)	K274	K277
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, 25, 26, 28, 29	23, 28	22, 23, 24, 26, 28	22, 23, 24, 25, 26, 28, 29
NUMBER OF ASSY'S IN KIT	6	6	3	3	1	3	3	3	1
NO. OF CYLINDERS KIT SERVICES	3	3	3	3	1	3	3	3	1

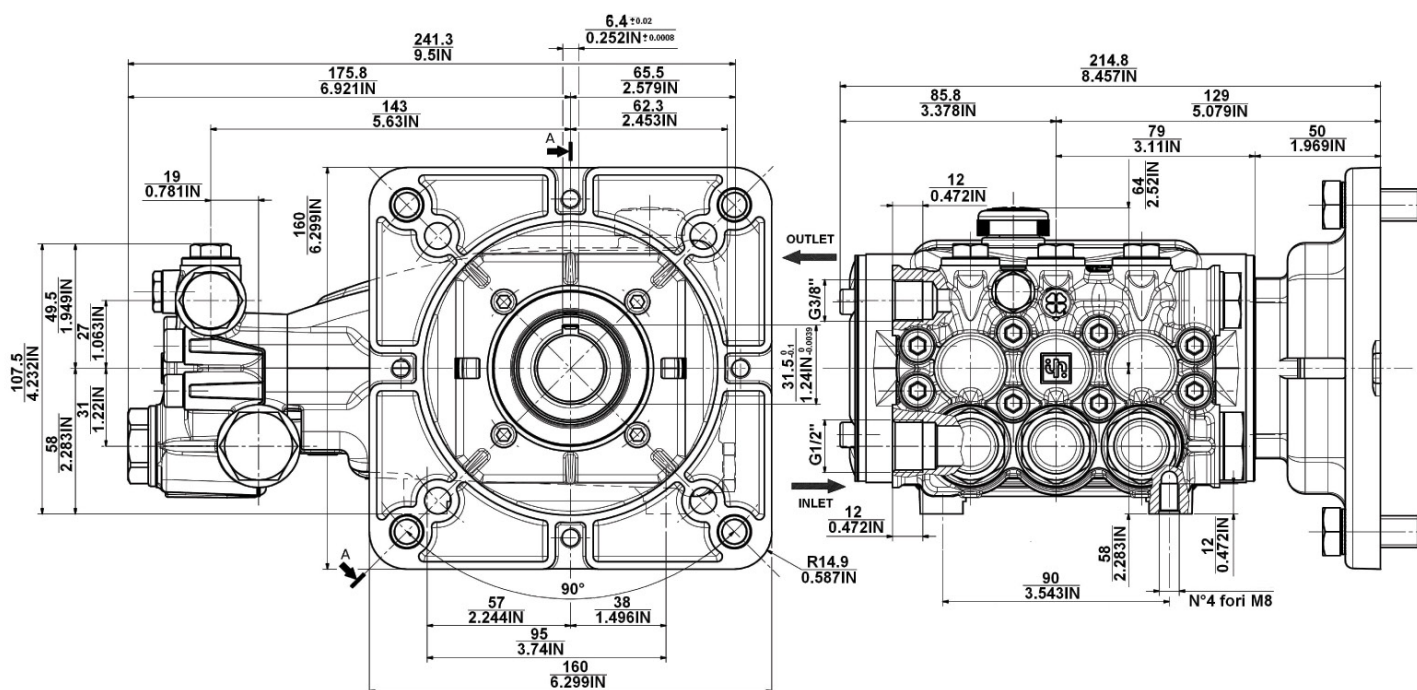
¹ Note: Seal tools included

TORQUE SPECS*

Position	Ft.-Lbs.	Nm.
9	96	130
10	4.5	6
20	44.3	60
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
69	7.4	10

*Decrease torque by 20% if threads are lubricated.

**Use Loctite 542 Red

DIMENSIONS


WARNING: High Pressure Systems require a primary pressure regulating device (i.e. regulator, unloader) and a secondary pressure relief device (i.e. pop-off valve, relief valve). Failure to install such relief devices properly could result in personal injury or damage to pump or property. GP does not assume any liability or responsibility for the operation of the user's high pressure system.



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