## GENERAL PUMP

A member of the Interpump Group

## **ESN Series**

Triplex Plunger Pump, 1" Hollow Shaft, Nickel-Plated, Gas

## FEATURES

- 1" Hollow Shaft, Flanged for Gas Engines
- New forged brass (nickel-plated) manifold, increases working pressure to 4,000 PSI
- New plunger guide bushing (patent pending)
- Solid ceramic plungers with dual guide system
- New optimized outlet valves
- Exclusive protection chamber between crankcase and manifold
- New dual lip oil seal

## SPECIFICATIONS



Pump Model	ESN1310G	ESN1313G	ESN1510G	ESN1512G			
Maximum Volume	3.43 GPM	3.96 GPM	4.49 GPM	5.28 GPM			
Maximum Discharge Pressure	4,00	) PSI	3,625 PSI				
Horsepower	14.0 GHP	14.0 GHP 16.3 GBHP		19.7 GHP			
Maximum Pump Speed		3400 RPM					
Maximum Inlet Pressure		125 PSI					
Plunger Bore (in / mm)	.512 in	/13 mm	.591 in./15 mm				
Plunger Stroke (in / mm)	.394 in./10 mm	.394 in./10 mm .512 in./13 mm		.472 in./12 mm			
Oil Capacity		22 oz. (.65 liters)					
Maximum Fluid Temperature		165º F					
Inlet Port Thread		1/2"-14 BSP-F					
Discharge Port Thread		3/8"-19 BSP-F					
Shaft Diameter		1 in./25.4 mm					
Weight		21 lbs.					
Dimensions - Nominal		10.4" x 10.3" x 4.8"					







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# Instructions and Recommendations for the Installation of $ESN\ Series\ Pumps$

Maximum temperature of the water through the pump is  $165^{\circ}F$  (73°C).

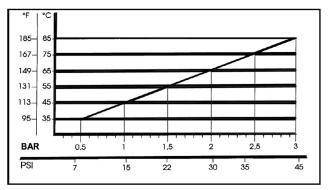
In order to obtain maximum performance in terms of duration of seals and valves, it is necessary to respect a few simple rules, as follows:

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

Ref 300953 Rev.D 11-18 the pump, for example for a 4 gpm (15 l/min) pump, put a filter from 16 to 20 gpm (60-75 l/mi)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*.

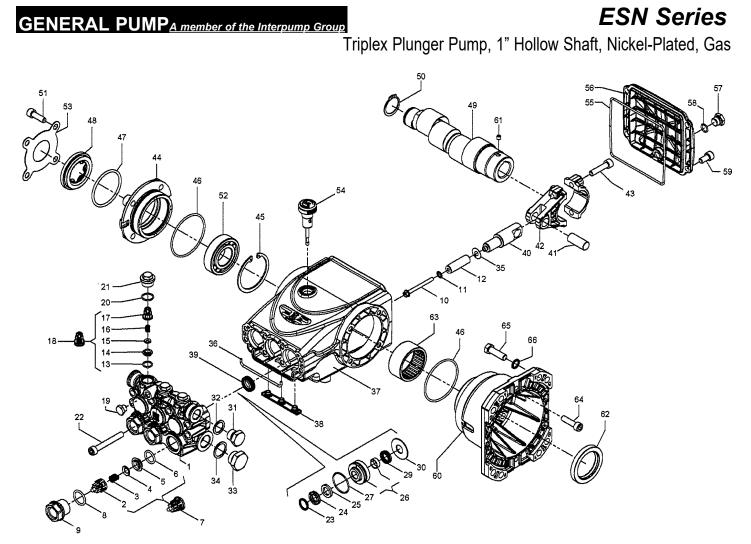
This change is not recommended because the oil has lost its properties, but rather to eliminate the impurities that have gotten into the oil during the running-in phase. If these impurities are not removed, but are allowed to remain in the oil, they *may cause premature wear* to the moving parts and 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

No.   Part No.   Description   Qty.     1   59121441   Manifold, Ø13   1     2   36202551   Valve Cage   3     3   94767600   Spring, Ø.4.x 14.8   3     4   3620016   Valve Spherical   3     5   36200366   Valve Spherical   3     5   36200366   Valve Spherical   3     6   701151   O-ring, Ø.7.13 x 2.62   3     7   36711501   Valve Samply   3     8   701002   O-ring, Ø.7.13 x 2.62   3     9   90260100   Seal, Ø.13, LP   3     9   90260100   Seal, Ø.13, LP   3     1   966700   Bernig, Ø.13 x 42   3     9   92026010   Seal, Ø.13, LP   3     1   966700   Bernig, Ø.13 x 42   3     9   9206700   Pulnger, Ø.13 x 42   3   9673800   Gasket, Ø.25 x 27 x 1.5   1     1   9680200   Pulnger, Ø.13 x 42   3<			-						<b></b>	1		
1   59121141   Manifod, Ø 15   1   24   90260200   Packing Ø 13, HP   3     2   36202551   Valve Cage   3   94767600   Spring, Ø 9.4 x 14.8   3     3   94767600   Spring, Ø 1.4 x 14.8   3   90507650   Anti-ext. Ring, Ø 15   3     4   36200266   Valve Spherical   3   56050801   Interned, Ring, Ø 15   3     5   36200366   Valve Seat, Inlet   3   27   90361200   O-ring, J 1.7 13 x 2.62   3   7   903671501   Valve Ration (ESN15106, ESN1310G)   1     6   701115   O-ring, Ø 2.0 2.5 x 2.62   3   27   90361200   O-ring, J 1.4 X 1.78   3   59020455   Crankshaft (ESN1510G, ESN1310G)   1     9   98222500   Valve Cap, M24 x 1.5 x 16.7   3   59210570   Support Ring, Ø 13   3   51   99066000   Sceniør (I 1.5 x 2.3 x 1.5   1     12   58040109   Plunger, Ø 15 x 42   3   39   98217900   Plug, 1/2" BSP x 10, Nickel   1   55   9039	No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.			Description	Qty.
S9121141   Manified, Ø 15   1   90260200   Packing Ø 13, HP   3   46   90391300   O-ring, Ø 6/.95 X 2.62   1     3   94767600   Spring, Ø 9.4 x 14.8   3   25   90507650   Anti-ext. Ring, Ø 13   3     4   36200176   Valve Spherical   3   90508990   Anti-ext. Ring, Ø 13   3     5   36200366   Valve Seat, Inlet   3   59605901   Interned, Ring, Ø 15   3     6   701115   O-ring, Ø 20.25 x 2.62   3   27   90361200   O-ring, 31.47x 1.78   3     7   36711501   Valve Assembly   3   90260000   Seal, Ø 15, LP   3   50   90006700   Retaining Clip   1     9   9822500   Valve Cap, M24 x 1.5 x 16.7   3   90260100   Seal, Ø 13, LP   3   50   90066700   Retaining Clip   1     11   960500   Washer, Ø 5 x 1.5 x 0.4   3   1   9820900   Plug, 1/2" BSP x 10, Nickel   1   53   66150274   Cover   1	1	59121041	Manifold, Ø13	1	24	90261100	Packing Ø 15, HP	3	45	90085000	Ring, Seeger, Ø 62	1
3 94767600 Spring, Ø.9.4 x 14.8 3 25 90508990 Anti-ext. Ring, Ø.15 3   4 36200176 Valve Spherical 3 26 59605801 Interned, Ring, Ø.13 3   5 36200366 Valve Sat, Inlet 3 27 90361200 O-ring, Ø.17.13 x 2.62 3 27 90361200 O-ring, Ø.17.13 x 2.62 3 27 90361200 O-ring, Ø.17.13 x 2.62 3 29 90260800 Seal, Ø.15, LP 3 50 90066700 Retaining Clip 1   7 36711501 Valve Assembly 3 30 59210670 Support Ring, Ø.13 3 50 90066700 Retaining Clip 1   9 98222500 Valve Cap, M24 x 1.5 x 16.7 3 30 59210670 Support Ring, Ø.13 3 51 90066700 Retaining Clip 1   12 58040009 Plunger, Ø.15 x 42 3 32 96738000 Gasket, J.7.5 x 23 x 1.5 1 54 98210500 Oil Dipstick 1   13 701014 O-ring, Ø.12.42 x 1.78 3 34 96751400	1	59121141	Maniflod, Ø 15	1	24	90260200	Packing Ø 13, HP	3	46	90391300	O-ring, Ø 67.95 x 2.62	1
3 94/6/600 Sping, Ø.9.4 x 14.8 3 90508901 Anti-ext. Ring, Ø.15 3 48 44211801 Sight Glass 1   4 36200366 Valve Spherical 3 26 59605801 Interned, Ring, Ø.15 3 59020465 Crankshaft (ESN1512G) 1   6 701115 O-ring, Ø.17.13 x 2.62 3 27 90361200 O-ring, 31.47x 1.78 3 59020465 Crankshaft (ESN1512G) 1   7 36711501 Valve Assembly 3 90260800 Seal, Ø.13, LP 3 59020650 Crankshaft (ESN1510G, ESN1310G) 1   9 98222500 Valve Cap, M24 x 1.5 x 16.7 3 90260100 Seal, Ø.13, LP 3 52 91337600 Retaining Clip 1   19 96690500 Washer, Ø.5 x 1.5 x 0.4 3 19 98209900 Plug, 3/8" x 13, Nickel 1 53 66150274 Cover 1   12 58040109 Plunger, Ø.13 x 42 3 39 98217900 Plug, 1/2" BSP x 10, Nickel 1 55 90392200 O-ring, Ø.13.02 x 2.62 1   13 7010	2	36202551		3	25	90507650	Anti-ext. Ring, Ø 13	3	47	90409700	O-ring, Ø 55.56 x 3.53	1
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18 36719301 Complete Outlet Valve 3 39 90156550 Oil Seal, Ø 15 x 24 x 5.7 3   19 98196700 Plug, Nickel 3 40 59050066 Piston Guide 3   20 701016 O-ring, Ø 15.6 x 1.78 3 41 97739900 Piston Pin, Ø 14 x 34 3   21 98213750 Outlet Valve Cap, M18x1.5x10 3 42 59030001 Connecting Rod 3   22 99317500 Screw, M8 x 60 3 43 99309900 Connecting Rod Screw 6   23 63101051 Head Ring, Ø 15 3 44 47150022 Crankcase Cover, Side 1	16	34733300	Spring, Ø 6.2 x 10.4	3	37	59010022	Crankcase	1	59	99303900	Screw, M8 x 16	4
19 98196700 Plug, Nickel 3 40 59050066 Piston Guide 3 62 90169000 Oil Seal, Ø 45 x 62 x 8 1   20 701016 O-ring, Ø 15.6 x 1.78 3 41 97739900 Piston Pin, Ø 14 x 34 3 63 91858500 Bearing, Needle 1   21 98213750 Outlet Valve Cap, M18x1.5x10 3 42 59030001 Connecting Rod 3   22 99317500 Screw, M8 x 60 3 43 99309900 Connecting Rod Screw 6 65 99334600 Screw, 3/8"-16 x 1-1/4" 4   23 63101051 Head Ring, Ø 15 3 44 47150022 Crankcase Cover, Side 1 66 96710400 Washer, Ø 10.5 x 16 x 1 4	17	36211151	Outlet Cage Guide	3	38	58210451	Drip Cover	1	60	10080122	Motor Flange	1
20   701016   O-ring, Ø 15.6 x 1.78   3   41   97739900   Piston Pin, Ø 14 x 34   3   63   91858500   Bearing, Needle   1     21   98213750   Outlet Valve Cap, M18x1.5x10   3   42   59030001   Connecting Rod   3   64   90308400   Screw, M8 x 30   4     22   99317500   Screw, M8 x 60   3   43   99309900   Connecting Rod Screw   6   65   99334600   Screw, 3/8"-16 x 1-1/4"   4     23   63101051   Head Ring, Ø 15   3   44   47150022   Crankcase Cover, Side   1   66   96710400   Washer, Ø 10.5 x 16 x 1   4	18	36719301	Complete Outlet Valve	3	39	90156550	Oil Seal, Ø 15 x 24 x 5.7	3	61	99179000	Screw, M6 x 6	1
21 98213750 Outlet Valve Cap, M18x1.5x10 3 42 59030001 Connecting Rod 3   22 99317500 Screw, M8 x 60 3 43 99309900 Connecting Rod Screw 6 64 90308400 Screw, M8 x 30 4   23 63101051 Head Ring, Ø 15 3 44 47150022 Crankcase Cover, Side 1 66 96710400 Washer, Ø 10.5 x 16 x 1 4	19	98196700	Plug, Nickel	3	40	59050066	Piston Guide	3	62	90169000	Oil Seal, Ø 45 x 62 x 8	1
22   99317500   Screw, M8 x 60   3   43   99309900   Connecting Rod Screw   6   65   99334600   Screw, 3/8"-16 x 1-1/4"   4     23   63101051   Head Ring, Ø 15   3   44   47150022   Crankcase Cover, Side   1   66   96710400   Washer, Ø 10.5 x 16 x 1   4	20	701016	O-ring, Ø 15.6 x 1.78	3	41	97739900	Piston Pin, Ø 14 x 34	3	63	91858500	Bearing, Needle	1
23 63101051 Head Ring, Ø 15 3 44 47150022 Crankcase Cover, Side 1 66 96710400 Washer, Ø 10.5 x 16 x 1 4	21	98213750	Outlet Valve Cap, M18x1.5x10	3	42	59030001	Connecting Rod	3	64	90308400	Screw, M8 x 30	4
	22	99317500	Screw, M8 x 60	3	43	99309900	Connecting Rod Screw	6	65	99334600	Screw, 3/8"-16 x 1-1/4"	4
44100251 Head Ring, Ø 13 3	23	63101051	Head Ring, Ø 15	3	44	47150022	Crankcase Cover, Side	1	66	96710400	Washer, Ø 10.5 x 16 x 1	4
		44100251	Head Ring, Ø 13	3			· · ·	·		·		

## GENERAL PUMP <u>A member of the Interpump Group</u>

## **ESN** Series

Triplex Plunger Pump, 1" Hollow Shaft, Nickel-Plated, Gas

## **REPAIR KITS**

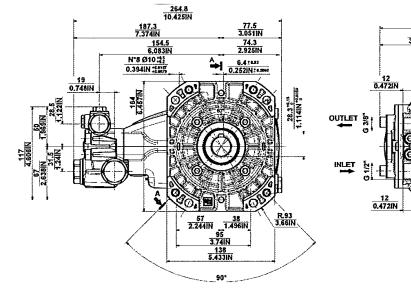
## **TORQUE SPECS\***

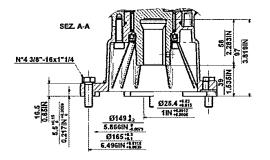
KIT NO.	K269	K292	K271	Ø 13			Ø 15		
Rit NO.	1205	N232	11271	K282	K287	K283	K288		
ITEM NO'S INCLUDED IN KIT	2, 3, 4, 5, 6, 13, 14, 15, 16, 17, (7), (18)	8, 9, 20, 21	39	23, 24, 25, 27, 29	23, 24, 25, 26, 27, 29, 30	23, 24, 25, 27, 29	23, 24, 25, 26, 27, 29, 30		
NUMBER OF ASSY'S IN KIT	6	6	3	3	1	3	1		
NO. OF CYLINDERS KIT SERVICES	3	3	3	3	1	3	1		

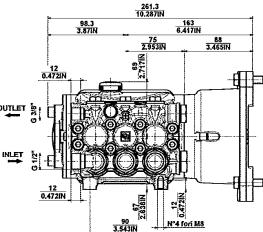
Position	FtLbs.	Nm.
9	96	130
10	4.5	6
19*	9.6	13
21	44.3	60
22	14.8	20
31	30	40
33	30	40
43	14.8	20
51	14.8	20
57	14.8	20
59	14.8	20
64	14.8	20

\*Use Loctite 542 Red

## DIMENSIONS







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