

Part List - GP8076

<u>Item</u>	<u>Part</u>	<u>Description</u>	<u>Qty</u>	<u>Item</u>	<u>Part</u>	<u>Description</u>	<u>Qty</u>
1	05380	Crankcase	1	41	03567	Guide Ring	6
2	06893	Oil Filler Plug Assy with Vent	1	42	03568	Spiral Ring	6
5	22929	Copper Washer	2	45	03569	Pressure Spring	3
6	12256	Plug, 3/8" BSP	1	49	05072	Stud Bolt	8
7	05656	Plug for Oil Dipstick	1	49A	05073	Hexagon Nut	8
8	05035	Oil Dipstick Assembly	1	50	03570	Valve Casing	1
9	01009	O-Ring	1	50A	13162	Centering Stud	2
12	07109	Plug 1/2" BSP	2	50B	03571	Discharge Valve Casing	1
13	06272	Seal	2	51	03572	Valve Assembly	6
14	05036	Bearing Cover Closed	1	51A	03573	Spring Tension Cap	6
14A	05298	Bearing Cover Open	1	51B	03574	Valve Seat	6
15	05112	Radial Shaft Seal	1	51C	03575	Valve Plate	6
16	05037	O-Ring	2	51D	06560	O-Ring	6
17	05038	Hexagon Socket Screw	16	51E	05080	Valve Spring	6
18	05039	Spring Ring	16	51F	03434	O-Ring	6
21	05044	Tapered Roller Bearing	2	56	03576	Discharge Valve Adaptor	3
21A	05042	Fitting Disc	1-5	56A	04955	O-Ring	3
21B	05043	Fitting Disc	1-5	56B	13156	O-Ring	3
22	05299	Crankshaft	1	57	05086	Pressure Spring	3
23	05104	Fitting Key	1	57A	07210-0100	Pressure Spring	3
24	05047	Connecting Rod Assembly	3	58	05087	Hexagon Socket Screw	12
25	05048	Crosshead c/w Plunger	3	59	07109	Plug 1/2" BSP	2
28	05049	Crosshead Pin	3	59A	06272	Copper Seal	2
29	05051	Hexagon Screw	4	60	13322	Plug 1-1/2" BSP	1
29A	05381	Bracket 1 for Cooling Hose	2	61	05088	Plug 3" BSP	1
29B	05383	Bracket 2 for Cooling Hose	2	62	05302	Plug 1/4" BSP	6
30	05052	Cover Plate	1	62A	06934	Copper Gasket	6
30A	07225-0100	Hexagon Screw	5	66	05303	Disc for Crankshaft	1
30B	13136	Grommet	5	67	13433	Hexagon Screw	1
30C	05053	Washer	9	68	07662	Valve Puller Tool (Not shown)	1
30D	05050	Splash Cover	1	78	05025	Oil Cooler Assembly	1
31	07623	Eye Bolt	3	K1	05026	Cooling Vane Plate	1
32	05058	Radial Shaft Seal	3	K2	05027	Seal for Gear Cover	2
32A	03118	Scraper	3	K3	05028	Gear Cover	1
33	03119	Seal Retainer	3	K4	05029	Hexagon Head Countersunk Screw	4
33A	05056	O-Ring	3				
33B	05054	Clip Ring	3	K5	07381	Hexagon Socket Screw	8
33C	05059	Fitting Disc	3	K6	08041	Washer	8
34	03560	Oil Shield	3	K7	05030	Connection for Oil Cooler	1
36A	05063	Cover for Plunger Pipe	3	K8	06272	Copper Seal	6
36B	03561	Plunger Pipe	3	K9	07109	Plug 1/2" BSP	2
36C	03562	Tension Screw	3	K10	05031	Connecting Branch	3
36D	03577	Washer	3	K11	05032	Hose Adaptor	3
36E	06900	Centering Sleeve	3	K12	05033	Tube for Cooler	2
36F	22704	O-Ring	3	K13	05402	Hose Clamp	4
36G	12092	O-Ring	3	K14	05403	Hose Guard	2
38	03563	Seal Case	3	K15	05404	Hose Coupling Nut	1
38A	03564	O-Ring	6	K16	05405	Flat Gasket	4
39	03565	Seal Sleeve	3	K18	04158	Hexagon Socket Screw	4
39A	05066	O-Ring	3	K19	05053	Washer	4
40	03566	Support Ring	6				

GP8076 PUMP REPAIR KITS

Plunger Packing Kit - #09861

Item	Part #	Description	Qty.
38A	03564	O-Ring	6
39A	05066	O-Ring	3
40	03566	Support Ring	6
41	03567	Guide Ring	6
42	03568	Spiral Ring	6

Valve Repair Kit - #09862

Item	Part #	Description	Qty.
51B	03574	Valve Seat	6
51C	03575	Valve Plate	6
51D	06560	O-Ring	6
51E	05080	Valve Spring	6
51F	03434	O-Ring	6
56A	06258	O-Ring	3
56B	13156	O-Ring	3

Oil Seal Kit - #09584A

Item	Part #	Description	Qty.
32	05058	Radial Shaft Seal	3
32A	03118	Scraper	3
33A	05056	O-Ring	3

GP8076 TORQUE SPECIFICATIONS					
Position	Item #	Thread	Description	Lubrication Info	Torque Amount
12	07109	1/2" BSP	Plug, 1/2" BSP		59 ft.-lbs. (80 Nm)
15	05112		Radial Shaft Seal	Loctite 403	
17	05038	M12	Hexagon Socket Screw		64 ft.-lbs. (87 Nm)
24	05047	M10	Connecting Rod Assembly		36.9 ft.-lbs. (50 Nm)
32	05058		Radial Shaft Seal	Loctite 403	
36C	03562	M10	Tension Screw	Loctite 243	30 ft.-lbs. (40 Nm)
39	03565		Seal Sleeve	Anti-Seize 350 Crankcase Side	
49	05072	M20	Stud Bolt	Loctite 648 Crankcase Side	
49A	05073	M20	Hexagon Nut		266 ft.-lbs. (360 Nm)
58	05087	M14	Hexagon Socket Screw	Anti-Seize 350	103 ft.-lbs. (140 Nm)
59	07109	1/2" BSP	Plug, 1/2" BSP		59 ft.-lbs. (80 Nm)
K4	05029	M6	Hexagon Head Countersunk Screw		133 in.-lbs. (15 Nm)
K5	07381	M10	Hexagon Socket Screw		33 ft.-lbs. (45 Nm)
K9	07109	1/2" BSP	Plug, 1/2" BSP		59 ft.-lbs. (80 Nm)
K18	04158	M6	Hexagon Socket Screw		133 in.-lbs. (15 Nm)

GP8000 Troubleshooting		
Problem	Cause	Solution
Pressure drops, water leaks	V-sleeves leak	Replace V-sleeves, examine surface of plunger
Pressure drops, pump becomes loud	Discharge or suction valve leaks	Replace valve
	Steam formation (cavitation)	Reduce suction height, reduce flow resistance in inlet line, clean inlet filter, lower water temperature
Irregular pressure	Worn valves	Examine valves
	O-Ring on the valves or inlet valve adapter leaks	Examine O-ring, examine valve casing for unevenness on the sealing surfaces
Oil leaks at visible part of plunger	Gear sealing is leaky	Examine seals and running surface of plunger
Dirty mile-colored frothy oil	Oil has mixed with water	Replace oil immediately, find and fix the cause
Oil leakage on the crankshaft	Shaft seal ring leaks	Check seal and shaft
Noise increases without loss of pressure	Worn bearing	Dismantle gear, examine all parts, replace worn parts, check oil level. If service life was too short, check for excess strain or whether lubrication intervals were too long. Only specified lubricants are to be used