

Parts List - GP8135 and GP8140

Item	Part	Description	Qty	Item	Part	Description	Qty
1	05651	Crankcase	1	51	05837	Inlet Valve Assembly	3
2	06893	Oil Filler Plug Assembly with Vent	1	51A	05595	Spring Tension Cap	3
3	05652	Rear Foot for Crankcase	2	51B	05838	Inlet Valve Seat	3
4	05653	Front Foot for Crankcase	2	51C	05752	Valve Plate	3
5	05654	Hexagon Socket Screw	4	51D	05408	O-Ring	3
6	05655	Hexagon Socket Screw	4	51E	05450	Valve Spring	3
7	05656	Plug 3/8" BSP for Oil Dipstick	1	51F	05596	O-Ring	3
8	04185	Oil Dipstick Assembly	1	52	05839	Discharge Valve Assembly	3
9	01009	O-Ring	1	52A	05595	Spring Tension Cap	3
10	05657	Plug M33 X 1.5	1	52B	05840	Discharge Valve Seat	3
11	07102	O-Ring	1	52C	05752	Valve Plate	3
12	12256	Plug 3/8" BSP	3	52D	05408	O-Ring	6
13	22929	Copper Washer	4	52E	05450	Valve Spring	3
14	05036	Bearing Cover Closed	1	52F	05596	O-Ring	3
16	05037	O-Ring	1	53A	03585	Discharge Casing	1
17	05038	Hexagon Socket Screw M12	8	53B	03586	Connection Plate	2
18	05039	Spring Ring	8	53C	07704	Copper Seal	2
19	05765	Flange	1	53D	03587	Hexagon Socket Screw	8
19A	05766	Hexagon Socket Screw	6	53E	03588	Lens Gasket	2
20	05658	Tapered Roller Bearing	1	53F	03589	Connection Nipple, 1" (MNPT versions)	1
21	05659	Tapered Roller Bearing	1	53F	03589-BSP	Connection Nipple, 1" (MBSP versions)	1
21A	05042	Fitting Disc	1-3	53G	03590	Plug, 1" BSP	1
21B	05043	Fitting Disc	1-3	54A	03591	Adapter, 2" (FNPT versions)	1
21C	05113	Fitting Disc	1-3	54B	13286	O-Ring (NPT versions)	1
22	05741	Crankshaft	1	54C	03592	Hexagon Socket Screw (NPT versions)	4
23	05661	Fitting Key	1	56	05409	Discharge Valve Adaptor	3
24	05047	Connecting Rod Assembly	3	56A	05408	O-Ring	3
25	05048	Crosshead with Plunger Base	3	57	07173	Tension Spring	6
28	05049	Crosshead Pin	3	58	05753	Inner Hexagon Screw	12
29	05051	Hexagon Screw	6	59	07109	Plug, 1/2" BSP	2
29A	07408	Hexagon Nut	2	59A	06272	Copper Seal, 1/2" BSP	2
29B	05383	Bracket 2 for Cooling Hose	2	61	05841	Plug, 2" BSP	1
29C	05662	Support Clamp	2	62	05842	Intermediate Casing	1
29D	05381	Bracket 1 for Cooling Hose	1	62A	05843	Flat Seal	1
30	05052	Cover Plate	1	62B	05754	Hexagon Socket Screw	4
30A	07225-0100	Hexagon Screw	5	62C	22764	Serrated Pin	4
30B	13136	Grommet	5	62D	05844	Flat Leakage Seal	3
30C	08280	Washer	9	62E	06106	Allen Grub Screw	2
30D	05050	Splash Cover	1	62F	04583	Connector	1
31	07623	Eye Bolt	4	63	05845	Drip Return Joint	2
32	05058	Radial Shaft Seal	3	63A	05757	Leakage Seal	2
32A	03118	Oil Scraper	3	63B	05811	Hexagon Socket Screw	4
33	03119	Seal Retainer	3	64	05846	Drip Return Nipple	2
33A	05056	O-Ring	3	64A	11507-0001	O-Ring	6
33B	05054	Clip Ring	3	65	05847	Drip Return Connection	1
33C	05059	Fitting Disc	3	65A	05848	Drip Return Plug	1
34	05060	Oil Shield	3	66	05663	Gear Cover	1
34A	05830	Locking Disc	3	67	05664	Hexagon Screw	10
36	05743	Plunger Pipe, GP8135	3	67A	05341	Washer	10
36	05816	Plunger Pipe, GP8140	3	68	05665	Cylinder Pin	2
38	05831	Seal Case, GP8135	3	69	04171	Gearwheel Set (1500 RPM=2.6)	1
38	05817	Seal Case, GP8140	3	69	04170	Gearwheel Set (1800 RPM=3.1)	1
38A	05408	O-Ring, GP8135	6	69	05767	Gearwheel Set (2200 RPM=3.8)	1
38A	05818	O-Ring, GP8140	6	69	05666	Gearwheel Set (2600 RPM=4.5)	1
39	05832	Seal Sleeve, GP8135	3	70	07614	Fitting Key	1
39	05819	Seal Sleeve, GP8140	3	71	04571	Fitting Disc	1
39A	05617	O-Ring	3	72	05667	Hexagon Screw	1
40	05744	Sleeve, GP8135	3	73	05608	Shaft Seal Ring for Gear	1
40	05820	Sleeve, GP8140	3	74	05429	Roller Bearing	1
40A	05745	O-Ring, GP8135	3	75	05669	Roller Bearing	1
40A	05821	O-Ring, GP8140	3	75A	05670	Fitting Disc	1
40B	05746	Pressure Ring, GP8135	3	76	05432	Gear Seal	1
40B	05822	Pressure Ring, GP8140	3	78	05849	Oil Cooler (Items K1 - K19)	1
40C	05474	Clip Ring, GP8135	3	K1	05026	Cooling Vane Plate	1
40C	13217-0100	Clip Ring, GP8140	3	K2	05027	Seal for Gear Cover	2
41	05833	Pressure Ring, GP8135	3	K3	05028	Gear Cover	1
41	05823	Pressure Ring, GP8140	3	K4	05029	Hexagon Head Countersunk Screw	4
41A	05747	Guide Ring, GP8135	3	K5	07381	Hexagon Socket Screw	8
41A	03559	Guide Ring, GP8140	3	K6	08041	Washer	8
42	05748	Rope Packing, GP8135	6	K7	05742	Connecting Branch	1
42	05825	Rope Packing, GP8140	3	K8	06272	Copper Seal	6
43	05749	Support Disc, GP8135	3	K9	07109	Plug, 1/2" BSP	2
43	05826	Support Disc, GP8140	3	K10	05031	Connecting Branch	3
44	05751	Support Ring, GP8135	6	K11	05032	U-Joint Connector c/w Nut	3
44	05827	Support Ring, GP8140	3	K12	05033	Tube for Cooler	2
45	13297	Tension Spring, GP8135	3	K13	05402	Hose Clamp	4
45	05828	Tension Spring, GP8140	3	K14	05403	Hose Guard	2
49	05834	Stud Bolt	8	K15	05404	Hose Coupling Nut	1
49A	05073	Hexagon Nut	8	K16	05405	Flat Gasket	4
50	05835	Inlet Valve Casing	1	K18	04158	Hexagon Set Screw	4
50A	13162	Centering Stud	2	K19	05053	Washer	4
					04175	Plunger Replacement Kit, GP8135 (34A-45)	
					04160	Plunger Replacement Kit, GP8140 (34A-45)	

Pump Repair Kits - GP8135 and GP8140

Plunger Packing Kit - GP8135 - # 09707

Item	Part #	Description	Qty.
38A	05408	O-Ring	6
39A	05617	O-Ring	3
40	05744	Sleeve	3
40A	05745	O-Ring	3
41A	05747	Guide Ring	3
42	05748	Rope Packing	6
44	05751	Support Ring	6

Plunger Packing Kit - GP8140 - # 09708

Item	Part #	Description	Qty.
38A	05818	O-Ring	6
39A	05617	O-Ring	3
40	05820	Sleeve	3
40A	05821	O-Ring	3
41A	03559	Guide Ring	3
42	05825	Rope Packing	3
44	05827	Support Ring	3

Inlet Valve Kit - #09709

Item	Part #	Description	Qty.
51	05837	Inlet Valve Assembly	3
56A	05408	O-Ring	3

Discharge Valve Kit - #09710

Item	Part #	Description	Qty.
52	05839	Discharge Valve Assembly	3
56A	05408	O-Ring	3

Oil Seal Kit - #09584

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

GP8135(A) & GP8140(A) TORQUE SPECIFICATIONS

Position	Item #	Tool Needed	Description	Lubrication Info	Torque Amount
17	05038	10mm Allen Wrench	Hexagon Socket Screw		64 ft.-lbs. (87 Nm)
24	05047	8mm Allen Wrench	Connecting Rod Assembly		37 ft.-lbs. (50 Nm)
33B	05054	Industrial Snap Ring Pliers	Clip Ring		
36	05743/05816	16mm Socket	Plunger Pipe		33 ft.-lbs. (45 Nm)
49A	05073	30mm Socket	Hexagon Nut		266 ft.-lbs. (360 Nm)
51/52	05837/05839	Valve Puller - p/n 07662	Valve Assemblies		
58	05753	12mm Allen Wrench	Hexagon Socket Screw	Anti-Seize 350	132 ft.-lbs. (180 Nm)
K5	07381	8mm Allen Wrench	Hexagon Socket Screw		

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