

GP8045 / GP8048 Parts List

<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	43	05396	Support Ring (GP8045)	3
2	06893	Oil Filler Plug Assembly	1	45	05721	Tension Spring (GP8048)	3
5	22929	Copper Washer	2	45	07636	Tension Spring (GP8045)	3
6	06273	Oil Drain Plug	1	49	05072	Stud Bolt	8
7	05381	Plug, Oil Dip Stick	1	49A	05073	Hexagon Nut	8
8	05035	Oil Dip Stick Assembly	1	50	05397	Valve Casing	1
9	01009	O-Ring	1	50A	13162	Centering Stud	2
12	07109	Plug, 1/2" BSP	2	50B	05398	Discharge Casing	1
13	06272	Copper Ring	2	51	05976	Suction Valve Assembly	3
14	05036	Bearing Cover, Closed	1	51A	05595	Spring Tension Cap	3
14A	05298	Bearing Cover, Open	1	51B	05978	Suction Valve Seat	3
15	05112	Radial Shaft Seal	1	51C	05314	Valve Plate	3
16	05037	O-ring	2	51D	05408	O-Ring	3
17	05038	Inner Hexagon Screw	16	51E	05450	Valve Spring	3
18	05039	Spring Ring	16	51F	05596	O-Ring	3
21	05044	Tapered Roller Bearing	2	52	05977	Discharge Valve Assembly	3
21A	05042	Fitting Disc	1-5	52A	05595	Spring Tension Cap	3
21B	05043	Fitting Disc	1-5	52B	05979	Discharge Valve Seat	3
22	05299	Crankshaft	1	52C	05314	Valve Plate	3
23	05300	Fitting Key	1	52D	05408	O-Ring	6
24	05047	Connecting Rod Assembly	3	52E	05450	Valve Spring	3
25	05048	Crosshead c/w Plunger	3	52F	05596	O-Ring	3
28	05049	Crosshead Pin	3	56	04090	Discharge Valve Adapter	3
29	05051	Hexagon Screw	4	56A	05408	O-Ring	3
29A	05382	Bracket 1 - Cooling Hose	2	57	07173	Tension Spring	6
29B	05383	Bracket 2 - Cooling Hose	2	58	05087	Hexagon Socket Screw	12
30	05052	Cover Plate	1	59	07109	Plug, 1/2" BSP	2
30A	07225-0100	Screw, 316 S.S	5	59A	06272	Copper Gasket	2
30B	13136	Grommet	5	60	06909	Plug, 1-1/4" BSP	1
30C	08280	Washer	9	61	05088	Plug, 3" BSP	1
30D	05050	Splash Cover	1	62	05302	Plug, 1/4" BSP	6
31	07623	Eye Bolt	3	62A	06934	Copper Gasket	6
32	05058	Radial Shaft Seal	3	66	05303	Disc for Crankshaft	1
33	05055	Seal Retainer	3	67	13433	Hexagon Screw	1
33A	05056	O-Ring	3	78	05052	Oil Cooler Assembly	
33B	05054	Clip Ring	3			(K1-K19)	1
33C	05059	Fitting Disc	3	K1	05026	Cooling Vane Plate	1
34	05060	Oil Shield	3	K2	05027	Seal for Gear Cover	2
36B	05384	Plunger Pipe (GP8048)	3	K3	05028	Gear Cover	1
36B	05385	Plunger Pipe (GP8045)	3	K4	05029	Hexagon Head Countersunk	
36C	05062	Tension Screw	3			Screw	4
36D	07665	Copper Washer	3	K5	07381	Hexagon Socket Screw	8
36E	06900	Centering Sleeve	3	K6	08041	Washer	8
38	05386	Seal Case	3	K7	05030	Connection for Oil Cooler	1
38A	04840	O-Ring	6	K8	06272	Copper Seal	6
39	05388	Seal Sleeve (GP8048)	3	K9	07109	Plug, 1/2" BSP	2
39	05389	Seal Sleeve (GP8045)	3	K10	05031	Connecting Branch	3
39A	05066	O-Ring	3	K11	05032	U-Joint Connector w/Nut	3
40	05390	Seal Ring (GP8048)	3	K12	05033	Tube for Cooler	2
40	13290	Seal Ring (GP8045)	3	K13	05402	Hose Clamp	4
41	05391	Pressure Ring (GP8048)	3	K14	05403	Hose Guard	2
41	05392	Pressure Ring (GP8045)	3	K15	05404	Hose Coupling Nut	1
42	05393	Sleeve (GP8048)	9	K16	05405	Flat Gasket for Oil Cooler	4
42	05394	Sleeve (GP8045)	9	K18	04158	Hexagon Socket Screw	4
43	05395	Support Ring (GP8048)	3	K19	05053	Washer	4

GP8045/GP8048 PUMP REPAIR KITS

Plunger Packing Kits

Valve Assembly Kit - GP8045 & GP8048

GP8045 - #09626

Item	Part #	Description	Qty.
38A	04840	O-Ring	6
39A	05066	O-Ring	3
40	13290	Seal Ring	3
42	05394	V-Sleeve	9

Inlet Valve Kit - #09818

Item	Part #	Description	Qty.
51	05976	Inlet Valve Assembly	3
56A	05408	O-Ring	3

Discharge Valve Kit - #09819

Item	Part #	Description	Qty.
52	05977	Discharge Valve Assembly	3
56A	05408	O-Ring	3

GP8048 - #09627

Item	Part #	Description	Qty.
38A	04840	O-Ring	6
39A	05066	O-Ring	3
40	05390	Seal Ring	3
42	05393	V-Sleeve	9

Oil Seal Kit - #09584

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

GP8045/GP8048 Lubrication Information/Torque Specification/Tool List

Item #	Part #	Description	Lubrication	Torque	Tool
1	05380	Crankcase	Molycote Cu-Paste	N/A	
17	05038	Hexagon Socket Screw	N/A	64 ft.-lbs. (87 Nm)	10mm allen wrench
24	05047	Connecting Rod Hex Screw	N/A	37 ft.-lbs. (50 Nm)	8mm allen wrench
32	05058	Radial Shaft Seal	Loctite 403	N/A	
33B	05054	Clip Ring	N/A	N/A	Industrial Snap Ring Pliers
36C	05062	Tension Screw	Loctite 243	30 ft.-lbs. (40 Nm)	16mm socket
49	05072	Stud Bolt	Loctite 243	N/A	
49A	05073	Hexagon Nut (manifold)	N/A	265 ft.-lbs. (360 Nm)	30mm socket
51/52	05399/05406	Valve Assemblies	N/A	N/A	valve puller
51B/52B	05978/05979	Valve Seats	Molycote Cu-Paste	N/A	
58	05087	Hexagon Socket Screw	Molycote Cu-Paste	132 ft.-lbs. (180 Nm)	12mm allen wrench
79	07662	Tool for Valve	N/A	N/A	
K4	05029	Hex Countersunk Screw	N/A	132 in.-lbs. (15 Nm)	
K5	07381	Hexagon Socket Screw	N/A	N/A	8mm allen wrench
K9	07109	Plug, 1/2" BSP	N/A	N/A	

GP8000 Trouble Shooting

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 excess strain or whether lubrication intervals were too long. Only specified lubricants are to be used