

GP8045A/GP8048A 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	41	05391	Pressure Ring (GP8048)	3
2	06893	Oil Filler Plug Assembly	1	41	05392	Pressure Ring (GP8045)	3
5	22929	Copper Washer	2	42	05393	Sleeve (GP8048)	9
6	06273	Oil Drain Plug	1	42	05394	Sleeve (GP8045)	9
7	05381	Plug, Oil Dip Stick	1	43	05395	Support Ring (GP8048)	3
8	05035	Oil Dip Stick Assembly	1	43	05396	Support Ring (GP8045)	3
9	01009	O-Ring	1	45	05721	Tension Spring (GP8048)	3
12	07109	Plug, 1/2" BSP	2	45	07636	Tension Spring (GP8045)	3
13	06272	Copper Ring	2	49	05072	Stud Bolt	8
14	05036	Bearing Cover, Closed	1	49A	05073	Hexagon Nut	8
14A	05298	Bearing Cover, Open	1	50	05397	Valve Casing	1
15	05112	Radial Shaft Seal	1	50A	13162	Centering Stud	2
16	05037	O-ring	2	50B	05398	Discharge Casing	1
17	05038	Inner Hexagon Screw	16	51	05976	Suction Valve Assembly	3
18	05039	Spring Ring	16	51A	05595	Spring Tension Cap	3
21	05044	Tapered Roller Bearing	2	51B	05978	Suction Valve Seat	3
21A	05042	Fitting Disc	1-5	51C	05314	Valve Plate	3
21B	05043	Fitting Disc	1-5	51D	05408	O-Ring	3
22	05299	Crankshaft	1	51E	05450	Valve Spring	3
23	05300	Fitting Key	1	51F	05596	O-Ring	3
24	05047	Connecting Rod Assembly	3	52	05977	Discharge Valve Assembly	3
25	05048	Crosshead c/w Plunger	3	52A	05595	Spring Tension Cap	3
28	05049	Crosshead Pin	3	52B	05979	Discharge Valve Seat	3
29	05051	Hexagon Screw	4	52C	05314	Valve Plate	3
30	05052	Cover Plate	1	52D	05408	O-Ring	6
30A	07225-0100	Screw, 316 S.S	5	52E	05450	Valve Spring	3
30B	13136	Grommet	5	52F	05596	O-Ring	3
30C	08280	Washer	9	56	04090	Discharge Valve Adapter	3
30D	05050	Splash Cover	1	56A	05408	O-Ring	3
31	07623	Eye Bolt	3	57	07173	Tension Spring	6
32	05058	Radial Shaft Seal	3	58	05087	Hexagon Socket Screw	12
33	03119	Seal Retainer	3	59	07109	Plug, 1/2" BSP	4
33A	05056	O-Ring	3	59A	06272	Copper Gasket	4
33B	05054	Clip Ring	3	60	06909	Plug, 1-1/4" BSP	1
33C	05059	Fitting Disc	3	61	05088	Plug, 3" BSP	1
34	05060	Oil Shield	3	62	05302	Plug, 1/4" BSP	6
36B	05384	Plunger Pipe (GP8048)	3	62A	06934	Copper Gasket	6
36B	05385	Plunger Pipe (GP8045)	3	66	05303	Disc for Crankshaft	1
36C	05062	Tension Screw	3	67	13433	Hexagon Screw	1
36D	07665	Copper Washer	3	K2	05027	Seal for Gear Cover	1
36E	06900	Centering Sleeve	3	K3	05028	Gear Cover	1
38	05386	Seal Case	3	K5	22706	Hexagon Socket Screw	8
38A	04840	O-Ring	6	K6	08041	Washer	8
39	05388	Seal Sleeve (GP8048)	3	K7	05030	Connection for Oil Cooler	1
39	05389	Seal Sleeve (GP8045)	3	K8	06272	Copper Seal	4
39A	05066	O-Ring	3	K9	07109	Plug, 1/2" BSP	4
40	05390	Seal Ring (GP8048)	3	K18	04158	Hexagon Socket Screw	4
40	13290	Seal Ring (GP8045)	3	K19	05053	Washer	4

GP8045A/GP8048A PUMP REPAIR KITS

Plunger Packing Kits

Valve Assembly Kit - GP8045 & GP8048

GP8045A - #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

GP8048A - #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

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

Oil Seal Kit - #09584

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

GP8045A/GP8048A 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