

Part List - GP8055/GP8060/GP8065 - Brine

Item	Part	Description	Qty	Item	Part	Description	Qty
1	05380	Crankcase	1	40	06996	Seal Ring (GP8065)	3
2	06893	Oil Filler Plug Assembly with Vent	1	41	05276	Pressure Ring (GP8055)	3
5	22929	Copper Washer	2	41	05068	Pressure Ring (GP8060)	3
6	12256	Plug, 3/8" BSP	1	41	05117	Pressure Ring (GP8065)	3
7	05656	Plug for Oil Dipstick	1	42	05277	V Sleeve (GP8055)	9
8	05035	Oil Dipstick Assembly	1	42	05069	V Sleeve (GP8060)	9
9	06225	O-Ring	1	42	06997	V Sleeve (GP8065)	9
12	07109	Plug, 1/2" BSP	2	43	05278	Sleeve Support Ring (GP8055)	3
13	07182	Seal	2	43	05070	Sleeve Support Ring (GP8060)	3
14	05036	Bearing Cover Closed	1	43	05118	Sleeve Support Ring (GP8065)	3
14A	05298	Bearing Cover Open	1	45	05279	Seal Tension Spring (GP8055)	3
15	05112	Radial Shaft Seal	1	45	05071	Seal Tension Spring (GP8060)	3
16	05037	O-Ring	2	45	05119	Seal Tension Spring (GP8065)	3
17	05038	Hexagon Socket Screw	16	49	05072	Stud Bolt	8
18	05039	Spring Ring	16	49A	05073	Hexagon Nut	8
21	05044	Tapered Roller Bearing	2	50	05074-3000	Inlet Valve Casing	1
21A	05042	Fitting Disc	1-5	50A	13162	Centering Stud	2
21B	05043	Fitting Disc	1-5	50B	05075-3000	Discharge Valve Casing	1
21C	05113	Fitting Disc	1-5	51	05076-0100	Suction Valve Assembly	3
22	05299	Crankshaft	1	51A	04166	Spring Tension Cap	3
23	05300	Fitting Key	1	51B	05078-0100	Suction Valve Seat	3
24	05047	Connecting Rod Assembly	3	51C	05079-0100	Valve Plate	3
25	05048	Crosshead c/w Plunger	3	51D	07658-0001	O-Ring, Viton	3
28	05049	Crosshead Pin	3	51E	05080	Valve Spring	3
29	05051	Hexagon Screw	5	52	05082-0100	Discharge Valve Assembly	3
29A	05381	Bracket 1 for Cooling Hose	2	52A	04166	Spring Tension Cap	3
29B	05383	Bracket 2 for Cooling Hose	2	52B	05084-0100	Discharge Valve Seat	3
30	05052	Cover Plate	1	52C	05079-0100	Valve Plate	3
30A	07225-0100	Hexagon Screw	5	52D	05613	O-Ring, Viton	6
30B	13136	Grommet	5	52E	05080	Valve Spring	3
30C	08280	Washer	10	56	05085-0100	Discharge Valve Adaptor	3
30D	05050	Splash Cover	1	56A	05613	O-Ring, Viton	3
31	07623	Eye Bolt	4	57	05086	Pressure Spring	3
32	05058	Radial Shaft Seal	3	57A	07210-0100	Pressure Spring	3
32A	03118	Oil Scraper	3	58	05087-0100	Hexagon Socket Screw	12
33	03119	Seal Retainer	3	60	06909	Plug, 1 1/4" BSP	1
33A	05056	O-Ring	3	61	05088	Plug, 3" BSP	1
33B	05054	Clip Ring	3	66	05303	Disc for Crankshaft	1
33C	05059	Fitting Disc	3	67	13358	Hexagon Screw	1
34	05060	Oil Shield	3	K1	05026-0100	Cooling Vane Plate	1
36A	05063	Cover for Plunger Pipe (GP8060/GP8065)	3	K2	05027	Seal for Gear Cover	2
36B	05280	Plunger Pipe (GP8055)	3	K3	05028	Gear Cover	1
36B	05061	Plunger Pipe (GP8060)	3	K4	05029	Hexagon Head Countersunk Screw	4
36B	05115	Plunger Pipe (GP8065)	3	K5	07381	Hexagon Socket Screw	8
36C	05062	Tension Screw	3	K6	08041	Washer	8
36D	07665	Copper Washer	3	K7	05030	Connection for Oil Cooler	1
36E	06900	Centering Sleeve	3	K8	07661	Copper Seal	6
38	05283	Seal Case (GP8055)	3	K9	07109	Plug, 1/2" BSP	2
38	05064	Seal Case (GP8060/GP8065)	3	K10	05031	Connecting Branch	3
38A	13286-0001	O-Ring, Viton (GP8055)	6	K11	05032	Hose Adaptor	3
38A	06667-0001	O-Ring, Viton (GP8060/GP8065)	6	K12	05033	Tube for Cooler	2
39	05275	Seal Sleeve (GP8055)	3	K13	05402	Hose Clamp	4
39	05065	Seal Sleeve (GP8060)	3	K14	05403	Hose Guard	2
39	05116	Seal Sleeve (GP8065)	3	K15	05404	Hose Coupling Nut	1
39A	05066	O-Ring	3	K16	05405	Flat Gasket	4
40	07723	Seal Ring (GP8055)	3	K18	04158	Hexagon Socket Screw	4
40	05067	Seal Ring (GP8060)	3	K19	05053	Washer	4

Pump Repair Kits - GP8055/GP8060/GP8065 - Brine

Plunger Packing Kits

GP8055 - #09616

Item	Part #	Description	Qty.
38A	13286	O-Ring	6
38B	05281	Support Ring	6
39A	05066	O-Ring	3
40	07723	Seal Ring	3
42	05277	V-Sleeve	9

GP8060 - #09617

Item	Part #	Description	Qty.
38A	06667	O-Ring	6
39A	05066	O-Ring	3
40	05067	Seal Ring	3
42	05069	V-Sleeve	9

GP8065 - #09586

Item	Part #	Description	Qty.
38A	06667	O-Ring	6
39A	05066	O-Ring	3
40	06996	Seal Ring	3
42	06997	V-Sleeve	9

Oil Seal Kit - #09584

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

Inlet Valve Kit - #09587-0100

Item	Part #	Description	Qty.
51	05076-0100	Inlet Valve Assembly	3
56A	05613	O-Ring	3

Discharge Valve Kit - #09588-0100

Item	Part #	Description	Qty.
52	05082-0100	Discharge Valve Assembly	3
56A	05613	O-Ring	3

GP8055/GP8060/GP8065 - Brine TOOL LIST AND TORQUE SPECIFICATIONS				
ITEM	PART #	DESCRIPTION	TORQUE Ft-lbs (NM)	TOOL NEEDED
17	05038	Hexagon Socket Screw	64 (87)	10mm allen wrench
24	05047	Connecting Rod Hexagon Socket Screw	37 (50)	8mm allen wrench
33B	05054	Clip Ring	n/a	Industrial Snap ring pliers
36C	05062	Tension Screw	30 (40)	16mm socket
49A	05073	Hexagon Nut (manifold)	265 (360)	30mm socket
51	05076-0100	Valve Assemblies	n/a	Valve puller (p/n 07662) - included with pump
52	05082-0100	Valve Assemblies	n/a	Valve puller (p/n 07662) - included with pump
58	05087	Hexagon Socket Screw	132 (180)	12mm allen wrench
K5	07381	Hexagon Socket Screw	n/a	8mm allen wrench

GP8055/GP8060/GP8065 - Brine 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