Parts List - BPK7180

ITEM	PART	DESCRIPTION	QTY.
1	03832	Crankcase	1
2	03833	Oil Filler Plug Assembly	1
4	07601	Crankcase Cover	1
5	05798	Gasket, Crankcase Cover	1
8	03215	Oil Dip Stick Assembly	1
9	01009	O-Ring, Dip Stick	1
10	22706	Hexagon Screw	8
11	06725	Spring Washer	8
12	07109	Drain Plug	3
13	06272	Gasket, Drain Plug	3
14	03855	Bearing Cover w/Centering Ring	1
14A	03834	Bearing Cover	1
15	03836	Radial Shaft Seal	1
15A	04822	Lid	1
15B	03837	Spacer Ring	1
16	03838	O-Ring	2
17	05642	Inner Hexagon Screw	8
18	05039	Spring Washer	8
20	05773	Taper Roller Bearing	2
20A	05774	Fitting Disc (Shim), 0.1mm	1-8
22	03839	Crankshaft	1
23	07614	Key	1
24	05777	Connecting Rod Assembly	3
25	05778	Crosshead Assembly	3
28	05779	Crosshead Pin	3
30	06661	Cover Plate	1
30A	07225-0100	Hexagon Screw	4
30B	13136	Grommet	4
30C	05053	Washer	4
31	07623	Eye Bolt	1
32	07624	Radial Shaft Seal	3
32A	03840	Flinger	3
33	03841	Seal Retainer	3
33A	07627	O-Ring	3
33B	07628	Circlip Ring	3
33C	07249	Fitting Disc (Shim), 0.1mm	3
34	13137	Oil Scraper	3
36A	03842	Extension	3
36B	03843	Piston Body	3
36C	03844	Hexagon Screw	3
36D	13262	Copper Ring	3
36E	03845	Pressure Disc	3
36F	03846	Plate	3
36G	03847	Piston Seal	3
36H	03623	Hexagon Socket Screw	12
36J	03848	Guide Ring	3

ITEM	PART	DESCRIPTION	QTY.
38	03856	Centering Ring	3
38A	03149	O-Ring	3
40	03849	Cylinder Liner	3
41	03850	Flat Seal	6
45	03851	Spacer Disc	3
48	03857	Intermediate Casing	1
49	04683	Stud Bolt	8
49A	13430	Hex Nut	8
50	04689	Valve Casing	1
50A	13162	Cylinder Stud	4
51	04684	Inlet Valve Assembly (51A-J)	3
51A	04685	Inlet Valve Seat	3
51B	04686	Guide Ring	3
51D	04688	Valve Plate	3
51E	05450	Valve Spring	3
51F	04690	Guide Sleeve	3
51G	04691	Spring Tension Cap	3
51H	05167	O-Ring	3
51J	07758	O-Ring	3
52	04692	Discharge Valve Assembly (52A-L)	3
52A	04693	Discharge Valve Seat	3
52B	03433	Guide Ring	3
52D	04688	Vale Plate	3
52E	05450	Valve Spring	3
52F	04690	Guide Sleeve	3
52G	04691	Spring Tension Cap	3
52H	03434	O-Ring	3
52J	07758	O-Ring	3
52K	05599	O-Ring	3
52L	13309	Spacer Sleeve	3
53	04694	Valve Holder	3
54	04695	Plate Spring Adapter	3
54A	04696	Clip Ring	3
55	04187	Tension Disc	3
55A	04697	Clip Ring	3
56	04698	Plate Spring	18
57	04699	O-Ring	3
58	04700	Valve Plug	3
60	13322	Plug, 1-1/2” BSP	1
61	13171	Plug, 2-1/2” BSP	1
	03852	Valve Puller Tool (not shown)	1
	03853	Gear End Assembly, (1-33C, 49, 49A, 50A)	1
	04703	Manifold Assembly, (50-61)	1
	03854	Piston Replacement Kit, (34-48)	1

Repair Kits - BPK7180

Plunger Packing Kit
 # 09883

Item	Part #	Description	Qty.
36D	13262	Copper Ring	3
36G	03847	Piston Seal	3
36J	03848	Guide Ring	3
38A	03149	O-Ring	3
41	03850	Flat Seal	6

Oil Seal Kit
 # 09221-BPK

Item	Part #	Description	Qty.
32	07624	Radial Shaft Seal	3
33A	13286	O-Ring	3

Valve Repair Kit
 # 09884

Item	Part #	Description	Qty.
51A	04685	Valve Seat, Inlet	3
51B	04686	Guide Ring	3
51D/52D	04688	Valve Plate	6
51E/52E	05450	Valve Spring	6
51F/52F	04690	Guide Sleeve	6
51G/52G	04691	Spring Tension Cap	6
51H	05167	O-Ring	3
51J/52J	07758	O-Ring	6
52A	04693	Valve Seat, Discharge	3
52B	03433	Guide Ring	3
52H	03434	O-Ring	3
52K	05599	O-Ring	3
52L	13309	Spacer	3
57	04699	O-Ring	3

Torque Specifications BPK7180			
Item	**Thread**	**Torque**	**Tool Needed/ Lubrication**
1			Glattol 4346 on contact surface to plunger guides
10	M10	33 ft.-lbs. (45 Nm)	
12	1/2” BSP	59 ft.-lbs. (80 Nm)	
15			Loctite 403
17	M12	64 ft.-lbs. (87 Nm)	
24	M10	33 ft.-lbs. (40 Nm)	
32			Loctite 403
36C	M12	36 ft.-lbs. (50 Nm)	Loctite 243
36H	M6	132 in.-lbs. (15 Nm)	Loctite 243
49	M16		Loctite 648 on Crankcase side
49A	M12	59 ft.-lbs. (80 Nm)	
58	M64x2	107 ft.-lbs. (145 Nm)	

Preventative Maintenance Check-List & Recommended Spare Parts List						
Oil Level/Quality	X					
Oil Leaks	X					
Water Leaks	X					
Belts, Pulley		X				
Plumbing		X				
Recommended Spare Parts						
Oil Change p/n 1154			X	X		
Seal Spare Parts (1 kit/pump) (This page for kit list)					X	
Oil Seal Kit (1 kit/pump) (This page for kit lit)					X	
Valve Kit (1 kit/pump) (This page for kit list)						X