

Parts List - BP7170/BP7171

ITEM	PART	DESCRIPTION	QTY.	ITEM	PART	DESCRIPTION	QTY.
1	04674	Crankcase	1	51A	04704	Inlet Valve Seat, BP7170	3
2	06893	Oil Filler Plug Assembly	1	51A	04685	Inlet Valve Seat, BP7171	3
4	07601	Crankcase Cover	1	51B	05408	O-Ring for 51, BP7170	3
5	05798	Gasket, Crankcase Cover	1	51B	04686	Guide Ring, BP7171	3
8	03215	Oil Dip Stick Assembly	1	51C	06678	Valve Plate, BP7170	3
9	01009	O-Ring, Dip Stick	1	51C	04687	Valve Seal Ring, BP7171	3
10	22706	Hexagon Screw	8	51D	07732-0100	Valve Spring, BP7170	3
11	06725	Spring Washer	8	51D	04688	Valve Plate, BP7171	3
12	07109	Drain Plug	3	51E	06679	Spacer Pipe, BP7170	3
13	06272	Gasket, Drain Plug	2	51E	05450	Valve Spring, BP7171	3
14	04675	Bearing Cover	2	51F	06680	Valve Seal Ring, BP7170	3
15	07608	Radial Shaft Seal	2	51F	04690	Guide Sleeve, BP7171	3
16	07184	O-Ring	2	51G	04691	Spring Tension Cap, BP7171	3
17	05642	Inner Hexagon Screw	8	51H	05167	O-Ring, BP7171	3
18	05039	Spring Washer	8	51J	07758	O-Ring, BP7171	3
20	07610	Taper Roller Bearing	2	52	06673	Discharge Valve Assembly (52A-G), BP7170	3
20A	07611	Fitting Disc (Shim)	1-5	52	04692	Discharge Valve Assembly (52A-L), BP7171	3
21	05645	Shaft Guard Holder	1	52A	04705	Discharge Valve Seat, BP7170	3
21A	05646	Shaft Guard	1	52A	04693	Discharge Valve Seat, BP7171	3
22	13405	Crankshaft	1	52B	05818	O-Ring, BP7170	3
23	07614	Key	1	52B	03433	Guide Ring, BP7171	3
24	13182	Connecting Rod Assembly	3	52C	06678	Valve Plate, BP7170	3
25	13183	Crosshead Assembly	3	52C	04687	Valve Seal Ring, BP7171	3
28	13184	Crosshead Pin	3	52D	07732-0100	Valve Spring, BP7170	3
30	06661	Cover Plate	1	52D	04688	Valve Plate, BP7171	3
30A	07225-0100	Hexagon Screw	4	52E	06679	Spacer Pipe, BP7170	3
30B	13136	Grommet	4	52E	05450	Valve Spring, BP7171	3
30C	05053	Washer	4	52F	06680	Valve Seal Ring, BP7170	3
31	07623	Eye Bolt	1	52F	04690	Guide Sleeve, BP7171	3
32	07624	Radial Shaft Seal	3	52G	05408	O-Ring, BP7170	3
33	06662	Seal Retainer	3	52G	04691	Spring Tension Cap, BP7171	3
33A	13286	O-Ring	3	52H	03434	O-Ring, BP7171	3
33B	05719	Circlip	3	52J	07758	O-Ring, BP7171	3
33C	04676	Fitting Disc (Shim)	3	52K	05599	O-Ring, BP7171	3
36	06664	Plunger Pipe Assembly (36 A-D)	3	52L	13309	Spacer, BP7171	3
36A	07667	Plunger Connection	3	53	04694	Valve Holder, BP7171	3
36B	06665	Plunger Pipe	3	54	04695	Plate Spring Adapter, BP7171	3
36C	07664	Tension Screw	3	54A	04696	Clip Ring, BP7171	3
36D	07665	Copper Ring	3	55	04187	Tension Disc, BP7171	3
38	06666	Seal Case	3	55A	04697	Clip Ring, BP7171	3
38A	06667	O-Ring	6	56	04698	Plate Spring, BP7171	18
39	04677	Spacer Sleeve	3	56A	07658	O-Ring, BP7170	3
40	04678	Lubrication Ring	3	56B	07635	Support Ring, BP7170	3
41	06670	Spiral Ring	6	57	13173	Tension Spring, BP7170	6
42	06671	Support Ring	3	57	04699	O-Ring, BP7171	3
43	04679	Guide Ring	3	58	06682	Plug M64 X 2, BP7170	3
44	04680	Pressure Sleeve	3	58	04700	Valve Plug, BP7171	3
45	04681	Adjusting Ring	3	60	13151	Plug, 1-1/4" BSP, BP7170	1
47	04374	Grease Nipple	3	60	13322	Plug, 1-1/2" BSP, BP7171	1
48	04682	Intermediate Casing	1	61	13171	Plug, 2-1/2" BSP	1
49	06675	Stud Bolt, BP7170	8		04706	Gear End Assembly, BP7170 (1-33C, 49, 49A, 50A)	1
49	04683	Stud Bolt, BP7171	8		04701	Gear End Assembly, BP7171 (1-33C, 49, 49A, 50A)	1
49A	13160	Hex Nut, BP7170	8		04707	Manifold Assembly, BP7170 (1 x 12, 50-61 without 50A)	1
49A	13430	Hex Nut, BP7171	8		04703	Manifold Assembly, BP7171 (50-61)	1
50	06676	Valve Casing, BP7170	1		04702	Plunger Replacement Kit, (36-45)	1
50	04689	Valve Casing, BP7171	1				
50A	13162	Cylinder Stud	4				
51	06683	Inlet Valve Assembly (51A-F), BP7170	3				
51	04684	Inlet Valve Assembly (51A-J), BP7171	3				

Repair Kits - BP7170/BP7171

Plunger Packing Kit

09558

Item	Part #	Description	Qty.
38A	06667	O-Ring	6
41	06670	Spiral Ring	6
42	06671	Support Ring	3

Oil Seal Kit

09557

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

Valve Repair Kit - BP7170

09559

Item	Part #	Description	Qty.
51A	04704	Valve Seat, Inlet	3
51B	05408	O-Ring	3
51C/52C	06678	Valve Plate	6
51D/52D	07732-0100	Valve Spring	6
51E/52E	06679	Spacer Pipe	6
51F/52F	06680	Ring for Valve	6
52A	04705	Valve Seat, Discharge	3
52B	05818	O-Ring	3
52G	05408	O-Ring	3
56A	07658	O-Ring	3
56B	07635	Support Ring	3

Valve Repair Kit - BP7171

09836

Item	Part #	Description	Qty.
51A	04685	Valve Seat, Inlet	3
51B	04686	Guide Ring	3
51C/52C	04687	Valve Seal Ring	6
51D/52D	04688	Valve Plate	6
51E/52E	05480	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 BP7170/BP7171

Item	Part #	Description	Torque	Tool Needed/ Lubrication
1	04674	Crankcase		Molycote Cu-Paste
10	22706	Hexagon Screw	33 ft.-lbs. (45 Nm)	
12	07109	Drain Plug	59 ft.-lbs. (80 Nm)	
24	13182	Connecting Rod Assembly	30 ft.-lbs. (40 Nm)	
30A	07225-0100	Hexagon Screw	89 in.-lbs. (10 Nm)	
33B	05719	Circlip		Loctite 403
36A	07667	Plunger Connection	33 ft.-lbs. (40 Nm)	
36C	07664	Tension Screw	30 ft.-lbs. (40 Nm)	Loctite 243
49	06675	Stud Bolt, BP7170		Loctite 243
49	04683	Stud Bolt, BP7171		Loctite 243
49A	13160	Hex Nut, BP7170	103 ft.-lbs. (140 Nm)	
49A	13430	Hex Nut, BP7171	59 ft.-lbs. (80 Nm)	
51A	04704	Inlet Valve Seat, BP7170		Hylomar
51A	04685	Inlet Valve Seat, BP7171		Hylomar
52A	04705	Discharge Valve Seat, BP7170		Hylomar
52A	04693	Discharge Valve Seat, BP7171		Hylomar
58	06682	Valve Plug	107 ft.-lbs. (145 Nm)	
58	04700	Valve Plug	107 ft.-lbs. (145 Nm)	