

P400-3100 PUMP PARTS LIST

A=P420-3100 B= P423-3100 C=P435-3100 D=P450-3100 E=P425-3100

<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	05694	Crankcase	1	20	05443-0100	Seal Case (A,E)	3
2	08378	Oil Fill Plug with Gasket	1	20	05592-0100	Seal Case (B)	3
3	05689	Crankcase cover	1	20	05534-0100	Seal Case (C,D)	3
3A	07186	Oil Sight Glass w/ Gasket	1	20A	05696	Spacer Ring	3
4	08380	O-Ring	1	20B	05695	Extended Sleeve	3
5	07109-0400	Oil Drain Plug, 1/2" BSP	1	20C	06182	Guide Ring for 20B	3
5A	06015	O-Ring	1	21	07266-0001	O-Ring	3
5B	08092-0100	Plug with Gasket	1	23	12254	Grooved Seal (A,E)	3
6	01010-0100	Screw	4	23	06249	Grooved Seal Packing (B)	3
6A	01011-0400	Spring Washer	4	23	08477	Grooved Seal (C,D)	6
7	04739A	Bearing Cover, Open, Anodized	1	23A	06251-0100	Spacer Disc (B)	3
8	05974	Bearing Cover, Closed, Anodized	1	23B	12255	Grooved Seal (A,E)	3
8A	05292	Shim, 0.1 mm	1-6	23B	13390	Grooved Seal (B)	3
9	01016	O-Ring	2	24	08376	Support Ring (A,E)	6
10	07114-0100	Screw with Washer	8	24	06252	Support Ring (B)	3
10A	07011-0400	Spring Washer	8	24	07929	Support Ring (C,D)	3
11	07459	Radial Shaft Seal	1	25	08394-0100	Weep Return Ring (A,E)	3
12	05350	Bearing	2	25	06254-0100	Weep Return Ring (B)	3
13	04741	Crankshaft (A,C)	1	25	06804	Weep Return Ring (C,D)	3
13	04740	Crankshaft (B,D,E)	1	26	08395-3000	Manifold (A,B,E)	1
13A	04742	Spacer Ring	1	26	05574-3000	Manifold (C,D)	1
14	08091	Fitting Key	1	27A	08408-0100	Valve Assembly (A,B,E)	6
15	08390	Connecting Rod Assembly	3	27A	05578	Valve Assembly (C,D)	6
15A	05349	Connecting Rod Screw	6	27	08370-0100	Valve Seat (A,B,E)	6
15B	05348	Adapter Sleeve	6	27	05576	Valve Seat (C,D)	6
16	06178	Plunger Assy. Items 16A-16G (A,E)	3	28	06791-0100	Valve Plate (A,B,E)	6
16	05693	Plunger Assy. Items 16A-16G (B)	3	28	05542-0100	Valve Plate (C,D)	6
16	05692	Plunger Assy. Items 16A-16G (C,D)	3	29	06377-0100	Valve Spring (A,B,E)	6
16A	06179	Plunger Base	3	29	07906-0100	Valve Spring (C,D)	6
16B	08398	Plunger Pipe (A,E)	3	30	08372	Valve Spring Retainer (A,B,E)	6
16B	06247	Plunger Pipe (B)	3	30	07907	Valve Spring Retainer (C,D)	6
16B	08397	Plunger Pipe (C,D)	3	31	07212-0001	O-Ring, Viton (A,B,E)	6
16D	08399-0100	Tensioning Screw	3	31	07770-0001	O-Ring (C,D)	6
16E	07023-0001	O-Ring	3	32	06616	Plug, M30 x 1.5 (A,B,E)	6
16F	07203	Backup Ring	3	32	08406	Plug, M24 x 1.5 (C,D)	6
16G	07161-0100	Steel Washer	3	33	07214-0001	O-Ring, Viton (A,B,E)	6
17	06790	Crosshead Pin	3	33	06015-0001	O-Ring (C,D)	6
18	06180	Cover	1	34	06183	Inner Hexagon Screw	8
19	05444	Oil Seal	3	36	13150-0100	Plug, 3/4" BSP (C, D)	2

P400-3100 SERIES PUMP REPAIR KITS

Plunger Packing Kits

09667 (P420-3100, P425-3100)

Item	Part #	Description	Qty.
20C	06182	Guide Ring	3
21	07266-0001	O-Ring	3
23	12254	Grooved Seal	3
23B	12255	Grooved Seal	3
24	08376	Support Ring	6

Oil Seal Kit

09641

Item	Part #	Description	Qty.
19	05444	Oil Seal	3

Plunger Packing Kits

09668 (P423-3100)

Item	Part #	Description	Qty.
20C	06182	Guide Ring	3
21	07266-0001	O-Ring	3
23	06249	Grooved Seal	3
23B	13390	Grooved Seal	3
24	06252	Support Ring	3

Valve Assembly Kit

09522 (P420A-3100, P423-3100, P425-3100)

Item	Part #	Description	Qty.
27A	08408-0100	Valve Assy, Complete	6
33	07214-0001	O-Ring, Viton	6

Plunger Packing Kit

09634 (P435-3100, P450-3100)

Item	Part #	Description	Qty.
20C	06182	Guide Ring	3
21	07266-0001	O-Ring	3
23	08477	Grooved Seal	6
24	07929	Support Ring	3

Valve Assembly Kit

09646-0001 (P435-3100, P450-3100)

Item	Part #	Description	Qty.
27A	05578	Valve Assy, Complete	6
33	06015-0001	O-Ring	6

P400-3100 PUMP TORQUE SPECIFICATIONS

Position	Item#	Description	Thread Size	Lubrication	U.S (Metric)
3A	07186	Oil Sight Glass with Gasket	1" BSP	Loctite 5910	106 in.-lbs. (12 Nm)
5	07109-0400	Oil Drain Plug	1/2" BSP		59 ft.-lbs. (80 Nm)
5B	08092-0100	Plug with Gasket	3/4" BSP		59 ft.-lbs. (80 Nm)
6	01010-0100	Screw	M8		110 in.-lbs. (12.5 Nm)
10	07114	Screw with Washer	M8		132 in.-lbs. (15 Nm)
15B	05349	Connecting Rod Screw	M6		97 in.-lbs. (11 Nm)
16D	08399-0100	Tensioning Screw (P420/P423/P425)		Loctite 243	247 in.-lbs. (28 Nm)
16D	08399-0100	Tensioning Screw (P430/P450)			199 in. lbs. (22.5 Nm)
16G	07161-0100	Steel Washer		Loctite 577 (both sides)	
27	05576 / 08370-0100	Valve Seat		Hylomar	
32	06616	Plug (P420/P423/P425)	M30 x 1.5	Loctite 243	107 ft.-lbs. (145 Nm)
32	08406	Plug (P435/P450)	M25 x 1.5	Loctite 243	125 ft.-lbs. (170 Nm)
34	06183	Inner Hexagon Screw	M10	Lightly Oil	30 ft.-lbs. (40 Nm)