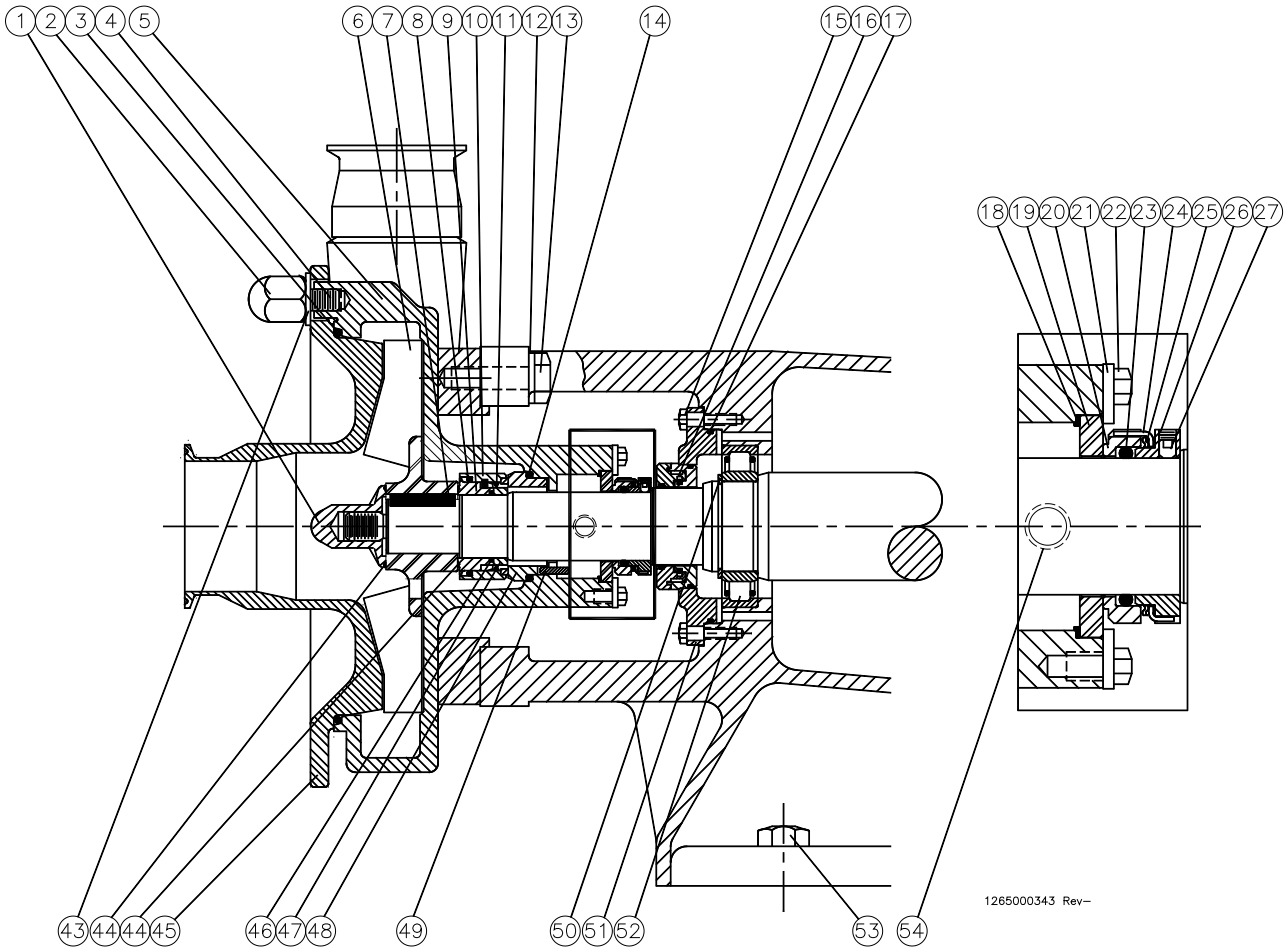
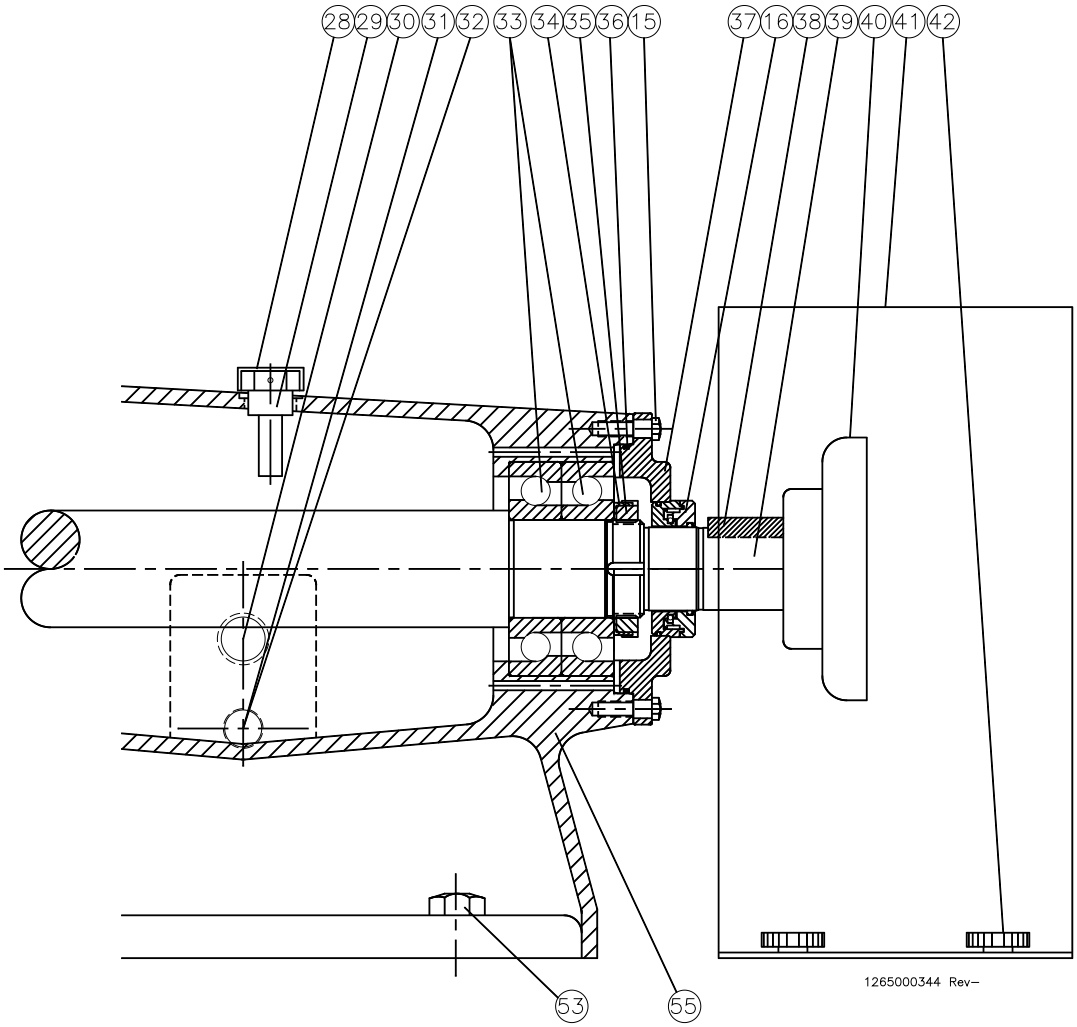


Figure 15: FPH/FPHP 3542, 3552, 3642, 3652 Assembly

1. Impeller Nut
2. Cover Nut
3. Cover Gasket
4. Housing Stud
5. Pump Housing
6. Impeller
7. Impeller Key
8. Rotating Seal o-ring
9. Seal Driver
10. Rotating Seal
11. Seal Spring
12. Lock Washer
13. Pump Housing Bolt
14. Stationary Seal o-ring
15. Bearing Cap Bolt
16. Labyrinth Seal
17. O-ring
18. Flat Gasket
19. Stationary Flush seal
20. Rotating Flush seal
21. Seal Retaining Ring
22. Seal Housing Bolt
23. Flush seal o-ring
24. Flush seal Drive Ring
25. Seal Spring
26. Seal Driver
27. Set Screw
28. Breather Cap
29. Oil Breather
30. Sight Glass



31. Drain Plug Nipple
32. Drain Plug Cap
33. Thrust Bearing
34. Bearing Lock Washer
35. Bearing Lock Nut
36. O-ring
37. Rear Bearing Cap
38. Coupling Key
39. Pump Shaft
40. Coupling Flange
41. Coupling Guard
42. Guard Screw
43. Flat washer
44. Impeller Nut Gasket & Impeller Gasket
45. Cover
46. O-ring
47. Gapping Spacer
48. Stationary Seal Ring
49. Housing Pin
50. Snap Ring
51. Front Bearing Cap
52. Radial Bearing
53. Mounting bolt
54. Water Pipe
55. Bearing Block

FPH/FPHP 3542

Item No.	Description	Part No.	Qty.
1	Impeller nut	1954000005	1
2	Cover nuts	1103000022	10
3	Cover gasket (viton)	1180000336	1
4	Housing stud	1103000001	10
5	FPH/FPHP 3542 housing	1448610004	1
6	Impeller	1448630223	1
7	Impeller key	1315000023	1
8	O-ring (viton)	1180000030	1
9	Seal driver	1811000021	1
10	Rotating seal ring (silicon carbide)	1810600155	1
11	Seal spring	1820000025	1
12	Lock washer	1104000031	4
13	Pump housing bolt	1101000102	4
14	O-ring (viton)	1181000099	1
15	Bearing cap bolt	1101000096	10
16	Labyrinth seal	1812000023	2
17	Front bearing cap o-ring	1180000148	1
18	Flat gasket	1181000047	1
19	Stationary water seal - ceramic	1815600093	1
20	Rotating water seal ring	1810600056	1
21	Seal retaining ring	1148000023	1
22	Seal housing bolt	1101000086	4
23	O-ring (viton)	1180000329	1
24	Water seal drive ring	1811000027	1
25	Water seal spring	1820000016	1
26	Water seal driver	1811000023	1
27	Set screw	1101000112	2

Item No.	Description	Part No.	Qty.
28	Breather cap	1248000009	1
29	Oil breather	1248000007	1
30	Sight glass	1248000018	2
31	Drain plug nipple	1226000006	1
32	Drain plug cap	1226000007	1
33	Thrust bearing (set)	1173000004	1
34	Bearing lock washer	1104000016	1
35	Bearing lock nut	1306000005	1
36	Rear bearing cap o-ring	1180000149	1
37	Rear bearing cap	1303000009	1
38	Coupling key	1315000008	1
39	Pump shaft	1321000181	1
43	Flat washer	1104000005	10
44	Impeller nut gasket (viton)	1181000098	2
45	FPH 3542 cover	1448620336	1
45	FPHP 3542 cover	1448620337	1
46	Seal driver o-ring	1180000086	1
47	Gapping spacer (7.7 mm)	1224000046	1
47	Gapping spacer (8.0 mm)		1
48	Stationary seal ring (silicon carbide)	1815600196	1
50	Snap ring	1148000005	1
51	Front bearing cap	1303000008	1
52	Radial bearing	1173000012	1
54	Water pipe	1910000007	2
55	Bearing block	1310600038	1

** = impellers are available in a variety of sizes. Please check with Fristam Pumps*

FPH 3552

Item No.	Description	Part No.	Qty.
1	Impeller nut	1954000005	1
2	Cover nuts	1103000022	10
3	Cover gasket (viton)	1180000336	1
4	Housing stud	1103000001	10
5	FPH 3552 housing	1458610004	1
6	Impeller	1458630243	1
7	Impeller key	1315000023	1
8	O-ring (viton)	1180000030	1
9	Seal driver	1811000021	1
10	Rotating seal ring (silicon carbide)	1810600155	1
11	Seal spring	1820000025	1
12	Lock washer	1104000031	4
13	Pump housing bolt	1101000102	4
14	O-ring (viton)	1181000099	1
15	Bearing cap bolt	1101000096	10
16	Labyrinth seal	1812000023	2
17	Front bearing cap o-ring	1180000148	1
18	Flat gasket	1181000047	1
19	Stationary water seal - ceramic	1815600093	1
20	Rotating water seal ring	1810600056	1
21	Seal retaining ring	1148000023	1
22	Seal housing bolt	1101000086	4
23	O-ring (viton)	1180000329	1
24	Water seal drive ring	1811000027	1
25	Water seal spring	1820000016	1
26	Water seal driver	1811000023	1
27	Set screw	1101000112	2

Item No.	Description	Part No.	Qty.
28	Breather cap	1248000009	1
29	Oil breather	1248000007	1
30	Sight glass	1248000018	2
31	Drain plug nipple	1226000006	1
32	Drain plug cap	1226000007	1
33	Thrust bearing (set)	1173000004	1
34	Bearing lock washer	1104000016	1
35	Bearing lock nut	1306000003	1
36	Rear bearing cap o-ring	1180000149	1
37	Rear bearing cap	1303000009	1
38	Coupling key	1315000008	1
39	Pump shaft	1321000181	1
43	Flat washer	1104000005	10
44	Impeller nut gasket (viton)	1181000098	2
45	FPH 3552 cover	1458620501	1
46	Seal driver o-ring	1180000086	1
47	Gapping spacer (7.7 mm)	1224000042	1
47	Gapping spacer (8.0 mm)		1
48	Stationary seal ring (silicon carbide)	1815600196	1
50	Snap ring	1148000005	1
51	Front bearing cap	1303000008	1
52	Radial bearing	1173000012	1
54	Water pipe	1910000007	2
55	Bearing block	1310600038	1

** = impellers are available in a variety of sizes. Please check with Fristam Pumps*

FPH 3642

Item No.	Description	Part No.	Qty
1	Impeller Nut	1954000036	1
2	Cover Nuts	1103000022	14
3	Cover gasket (viton)	1180000337	1
4	Housing stud	1103000013	14
5	FPH 3642 Housing	1462610000	1
6	Impeller	1462630000	1
7	Impeller Key	1315000035	1
8	O-ring (viton)	1180000280	1
9	Seal Driver	1811000035	1
10	Rotating seal ring (silicon carbide)	1810600156	1
11	Seal Spring	1820000028	1
12	Lock washer	1104000006	4
13	Pump housing bolt	1101000086	4
14	O-ring (viton)	1180000253	1
15	Bearing cap bolt	1101000011	4
16	Labyrinth seal (front) Labyrinth seal (back)	1812000037 1812000038	1
17	Front bearing cap o-ring	1180000748	1
18	Flat gasket (viton)	1181000140	1
19	Stationary water seal	1815600198	1
20	Rotating water seal ring	1810600100	1
21	Seal retaining ring	1148000030	1
22	Seal housing bolt	1101000086	4
23	O-ring (viton)	1180000030	1
24	Water seal drive ring	1811000036	1
25	Water seal spring	1820000028	1
26	Water seal driver	n/a	
27	Set screw	n/a	

Item No.	Description	Part No.	Qty
28	Breather cap	n/a	1
29	Oil breather	1248000036	1
30	Sight glass	1248000018	2
31	Drain plug nipple	1226000006	1
32	Drain plug cap	1226000007	1
33	Thrust bearing	1173000030	2
34	Bearing lock washer	1104000058	1
35	Bearing lock nut	1306000074	1
36	Rear bearing cap o-ring	1180000747	1
37	Rear bearing cap	1303000014	1
38	Coupling key	1315000041	1
39	Pump shaft	1340000012	1
43	Flat washer	1104000005	14
44	Impeller/nut gasket (viton)	1180000030	2
45	FPH 3642 Cover	1462620000	1
46	Seal driver o-ring	1180000348	1
47	Gapping spacer (7.6mm) Gapping spacer (7.8mm) Gapping spacer (8.0mm) Gapping spacer (8.2mm) Gapping spacer (8.4mm)	1224000091	1
48	Stationary seal ring (silicon carbide)	1815600197	1
50	Snap ring	1148000031	1
51	Front bearing cap	1303000013	1
52	Radial bearing	1173000029	1
54	Water pipe	1910000007	2
55	Bearing block	1310600108	1

** = impellers are available in a variety of sizes. Please check with Fristam Pumps*

FPH 3652

Item No.	Description	Part No.	Qty
1	Impeller Nut	1954000036	1
2	Cover Nuts	1103000022	10
3	Cover gasket (viton)	1180000340	1
4	Housing stud	1103000017	10
5	FPH 3652 Housing	1460610000	1
6	Impeller	1460630000	1
7	Impeller Key	1315000054	1
8	O-ring (viton)	1180000280	1
9	Seal Driver	1811000035	1
10	Rotating seal ring (silicon carbide)	1810600156	1
11	Seal Spring	1820000028	1
12	Lock washer	1104000031	4
13	Pump housing bolt	1101000102	4
14	O-ring (viton)	1180000253	1
15	Bearing cap bolt	1101000011	4
16	Labyrinth seal (front) Labyrinth seal (back)	1812000037 1812000038	1
17	Front bearing cap o-ring	1180000748	1
18	Flat gasket (viton)	1181000140	1
19	Stationary water seal	1815600198	1
20	Rotating water seal ring	1810600100	1
21	Seal retaining ring	1148000030	1
22	Seal housing bolt	1101000086	4
23	O-ring (viton)	1180000030	1
24	Water seal drive ring	1811000036	1
25	Water seal spring	1820000028	1
26	Water seal driver	n/a	
27	Set screw	n/a	

Item No.	Description	Part No.	Qty
28	Breather cap	n/a	1
29	Oil breather	1248000036	1
30	Sight glass	1248000018	2
31	Drain plug nipple	1226000006	1
32	Drain plug cap	1226000007	1
33	Thrust bearing	1173000030	2
34	Bearing lock washer	1104000058	1
35	Bearing lock nut	1306000074	1
36	Rear bearing cap o-ring	1180000747	1
37	Rear bearing cap	1303000014	1
38	Coupling key	1315000041	1
39	Pump shaft	1321000398	1
43	Flat washer	1104000005	10
44	Impeller/nut gasket (viton)	1180000030	2
45	FPH 3652 Cover	1460620000	1
46	Seal driver o-ring	1180000348	1
47	Gapping spacer (7.6mm) Gapping spacer (7.8mm) Gapping spacer (8.0mm) Gapping spacer (8.2mm) Gapping spacer (8.4mm)	1224000091	1
48	Stationary seal ring (silicon carbide)	1815600197	1
50	Snap ring	1148000031	1
51	Front bearing cap	1303000013	1
52	Radial bearing	1173000029	1
54	Water pipe	1910000007	2
55	Bearing block	1310600108	1

** = impellers are available in a variety of sizes. Please check with Fristam Pumps*

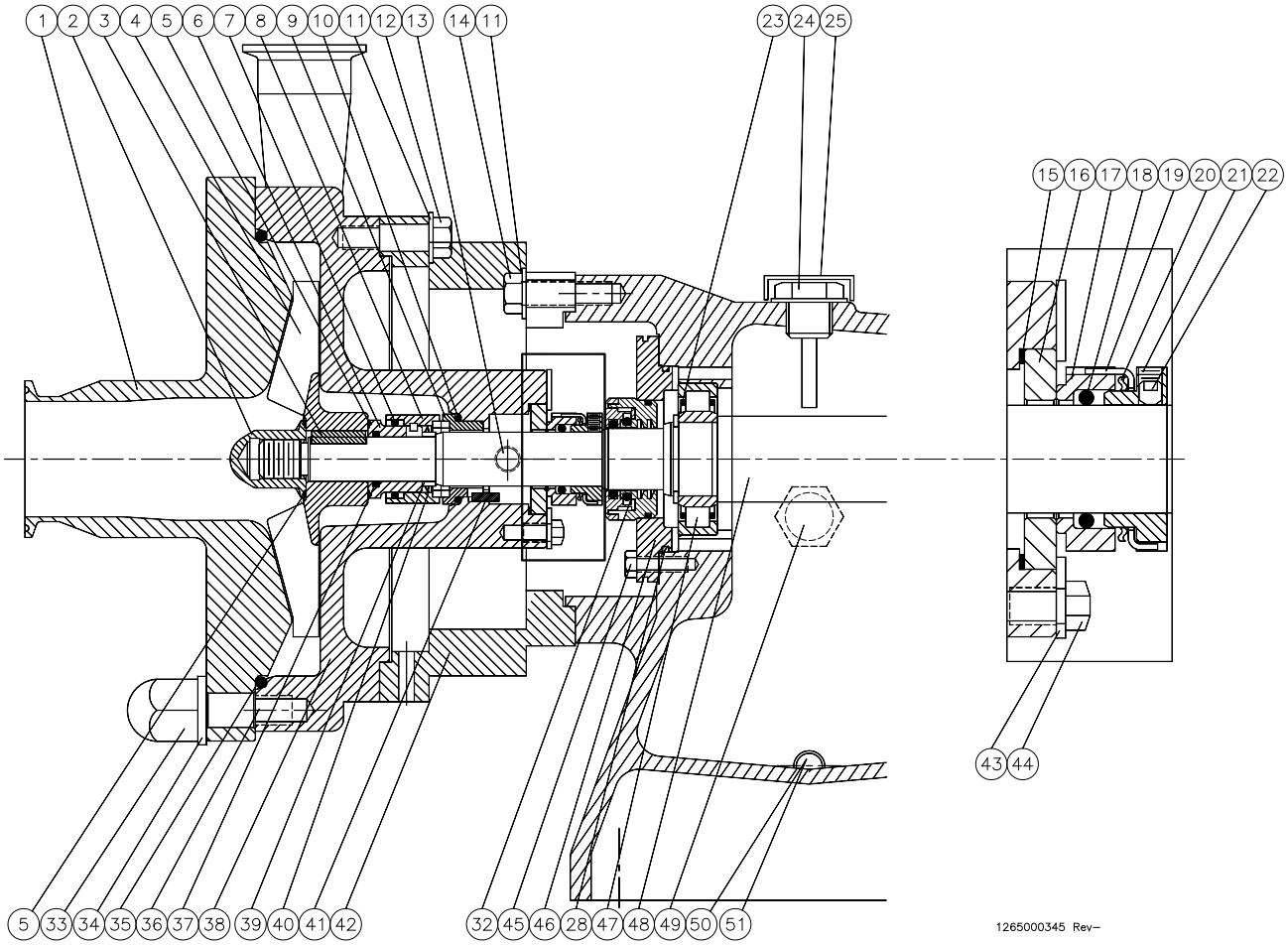
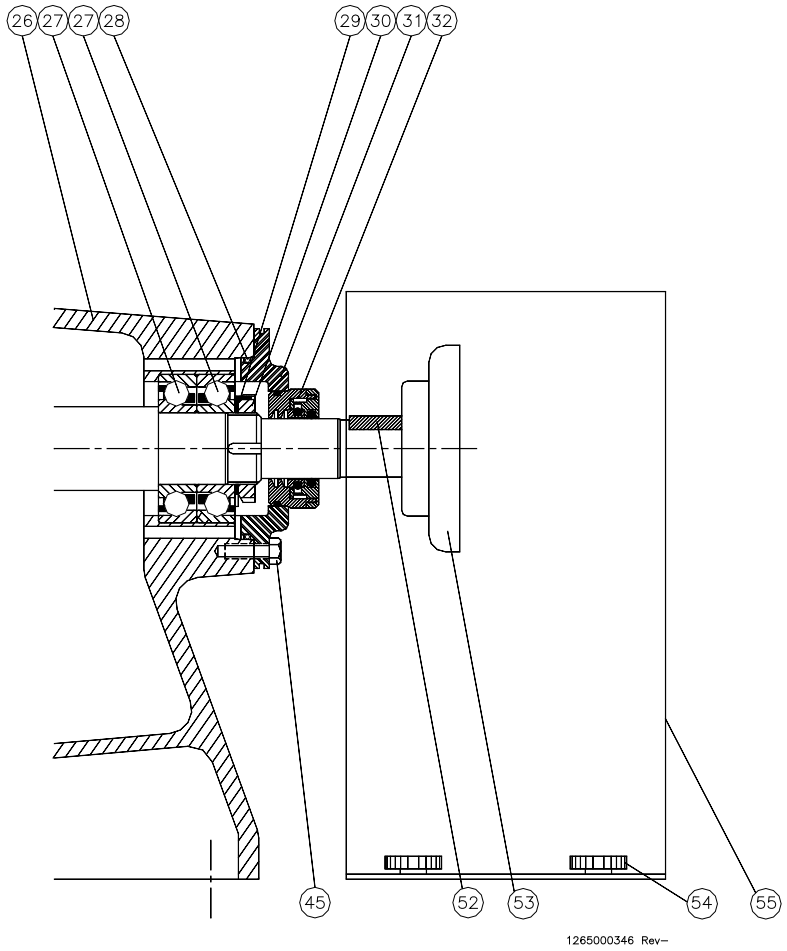


Figure 16: FPHP 722 Assembly

1. Pump Cover
2. Impeller Nut
3. Impeller Key
4. Impeller
5. Impeller Gasket
6. Seal Driver
7. Rotating Seal o-ring
8. Rotating Seal
9. Stationary Seal
10. Stationary Seal o-ring
11. Lock Washer
12. Flange Bolt
13. Water Pipe
14. Bearing Block Bolt
15. Flat Gasket
16. Stationary Flush seal
17. Rotating Flush seal Ring
18. Flush seal o-ring
19. Flush seal Drive Ring
20. Seal Spring
21. Seal Driver
22. Set Screw
23. Snap Ring
24. Oil Breather
25. Breather Cap
26. Bearing Block
27. Thrust Bearing
28. O-ring
29. Bearing Lock Washer
30. Bearing Lock Nut



31. Rear Bearing Cap
32. Labyrinth Seal
33. Cover Nut
34. Flat Washer
35. Cover Gasket
36. Housing Stud
37. O-ring
38. Housing
39. Gapping Spacer
40. Seal Spring
41. Housing Pin
42. Flange Adapter
43. Seal Retaining Ring
44. Seal Housing Bolt
45. Bearing Cap Bolt
46. Front Bearing Cap
47. Radial Bearing
48. Pump Shaft
49. Sight Glass
50. Drain Plug Nipple
51. Drain Plug Cap
52. Coupling Key
53. Coupling Flange
54. Guard Screw
55. Coupling Guard

FPHP 722

Item No.	Description	Part No.	Qty.
1	FPHP 722 cover w/2" fitting	1424620673	1
2	Impeller nut	1954000000	1
3	Impeller key	1315000002	1
4	Impeller	1424630051	1
5	Impeller nut gasket (viton)	1181000089	2
6	Seal driver	1811000010	1
7	O-ring (viton)	1181000036	1
8	Rotating seal ring (tungsten carbide)	1810600030	1
9	Stationary seal ring (tungsten carbide)	1815600080	1
10	O-ring (viton)	1180000344	1
11	Lock washer	1104000036	8
12	Flange bolt	1101000105	4
13	Water pipes	1910000000	2
14	Bearing block bolt	1101000106	4
15	Flat gasket	1181000069	1
16	Stationary water seal	1815600177	1
17	Rotating water seal ring	1810600015	1
18	O-ring (viton)	118000056	1
19	Water seal drive ring	1811000016	1
20	Seal spring	1820000026	1
21	Seal driver	1811000024	1
22	Set screw	1101000018	2
23	Snap ring	1148000012	1
24	Oil breather	1248000007	1
25	Breather cap	1248000009	1
26	Bearing block	1310600037	1
27	Thrust bearing	1173000003	2

Item No.	Description	Part No.	Qty.
28	O-ring (viton)	1180000122	2
29	Bearing lock washer	1104000023	1
30	Bearing lock nut	1306000008	1
31	Rear bearing cap	1303000007	1
32	Labyrinth seal	1812000024	2
33	Cover nut	1103000022	8
34	Flat washer	1104000005	8
35	Cover gasket (viton)	1180000335	1
36	Housing stud	1103000017	8
37	O-ring (viton)	1180000119	1
38	FPHP 722 housing w/1.5" fitting	1424610001	1
39	Gapping spacer	1224000051	1
40	Seal spring	1820000044	1
41	Housing pin	1891000008	1
42	Flange adapter	1310600055	1
43	Seal retaining ring	1148000021	1
44	Seal housing bolt	1101000086	4
45	Bearing cap bolt	1101000021	8
46	Front bearing cap	1303000006	1
47	Radial bearing	1173000010	1
48	Pump shaft	1321000180	1
49	Sight glass	1248000018	2
50	Drain plug nipple	1226100001	1
51	Drain plug cap	1226100002	1
52	Coupling Key	1315000044	1

** = impellers are available in a variety of sizes. Please check with Fristam Pumps*