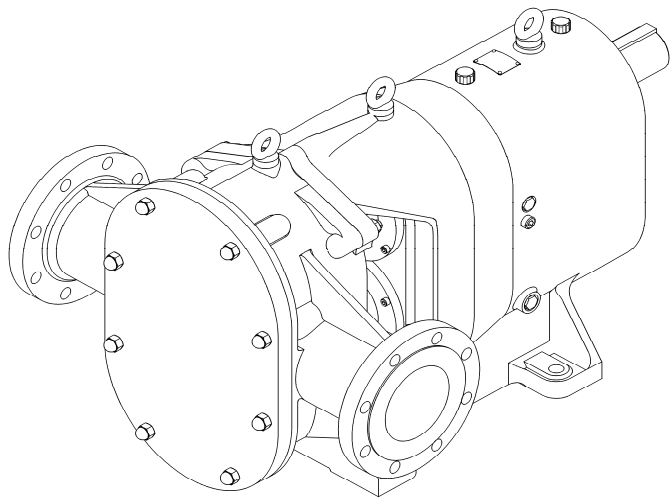


Series A7-8

Stainless Steel Positive Displacement Rotary Lobe Pumps

Spare Parts List

Oct 2018 (Issue 3.3)



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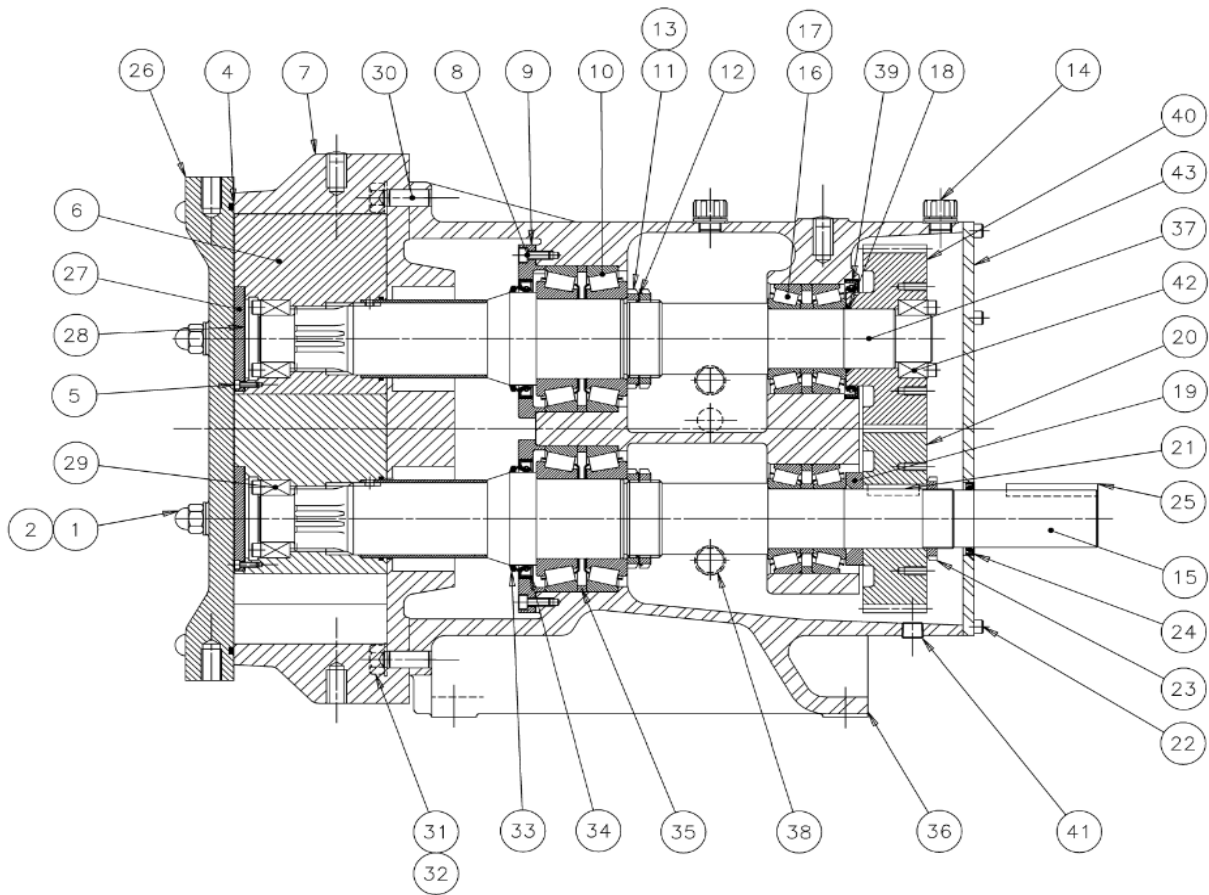
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When identifying the spare parts required it is important to check the pump specification by referring to the pump serial number.

A7-0550 Pump			
Drg No.	Description	Qty	Part No.
1	Stud, rotorcase cover	8	6350.139
2	Dome nut, rotorcase cover	8	5340.030
3	Eyebolt (no longer supplied)	3	5190.000
4	O' Ring, rotorcase cover NBR FPM EPDM PTFE	1	5380.156 5380.196 5380.508 5380.310
5	Screw, rotor cap	6	5990.051
6	Rotor, Trilobe, Stainless Steel 3.5 bar 70°C 3.5 bar 130°C 3.5 bar 200°C 7 bar 70°C 7 bar 130°C 7 bar 200°C 10 bar 70°C 10 bar 130°C 10 bar 200°C	2	5711.013A 5711.014A 5711.015A 5711.016A 5711.017A 5711.018A 5711.019A 5711.020A 5711.021A
7	Rotorcase 6" (150mm) flanged connections R90 EN1092-1 B1 PN16 ASA150RF R90 Flush & 2xR90 BSPT EN1092-1 B1 PN16 ASA150RF R90 Flush & 2xR90 NPT ASA150RF Packed Gland Packed Gland Flush BSPT Packed Gland Flush NPT	1	9557.257A 9557.254A 9551A.257A 9551A.254A 9551B.254A 9323.257A 9323.254A 9324A.257A 9324A.254A 9324B.254A
8	Screw, seal retainer	6	5990.030
9	Retainer, seal	2	5560.009
10	Bearing, gland end	4	5080.005
11/13	Nut, bearing gland end	4	5340.023
12	Tab washer	2	6400.025
14	Filler plug	2	5470.031
15	Drive Shaft 7 bar 10 bar	1	6110.508 6110.498
16/17	Bearing, drive end	2	5080.006
18	'O' Ring, NBR, bearing seal ring	1	1550.228
19	Ring, Bearing Seal	1	5600.001
20	Timing gear, keyed	1	5210.016
21	Key, timing gear	1	5270.024
22	Screw, gearcase cover	8	5990.030
23	Locking nut, timing gear	1	5340.025
24	Lip seal, drive end	1	5310.010
25	Key, drive shaft	1	5270.025
26	Cover, rotorcase Plain For Hinge Jacketed	1	5130.143 5130.129 5130.181
27	Rotor cap	2	5110.043

A7-0550 Pump			
Drg No.	Description	Qty	Part No.
28	Gasket, Rotor Cap	2	5198.113
29	Torque locking assembly, rotor	2	5615.007
30	Dowel	2	5170.011
31	Washer, gearcase/rotorcase screw	4	6400.041
32	Screw, gearcase/rotorcase	4	5950.038
33	Slinger	2	5665.017
34	Lip seal, gland end	2	5310.019
35	Spacer, bearing gland end	2	5670.014
36	Gearcase	1	5220.022
37	Shaft, auxiliary	1	6100.508
	7 bar		6100.498
38	Sight glass	2	5480.001
39	Lip seal, timing gear	1	5310.019
40	Timing gear, TLA	1	5210.017
41	Drain plug	2	1660.008
42	Torque locking assembly, timing gear	1	5615.007
43	Cover, gearcase	1	5120.025
	Gland Guard	2	5243.014
	Screw, gland guard	8	5990.045
	Washer, gland guard	8	6400.128
	<u>Rotorcase Cover Hinge Assembly</u>		
	Hinge Bracket	1	5087.015
	Hinge Arm	1	5087.016
	Flange Bracket	1	5087.021
	ASA150FF		5087.022
	EN1092-1 B1 PN16		
	Dowel	2	5170.022
	Pin	2	5180.014
	Bush	4	5060.004
	Screw, rotorcase cover	2	5950.026
	Screw, flange	2	5950.068

A7 Pump Model - Sectional Drawing

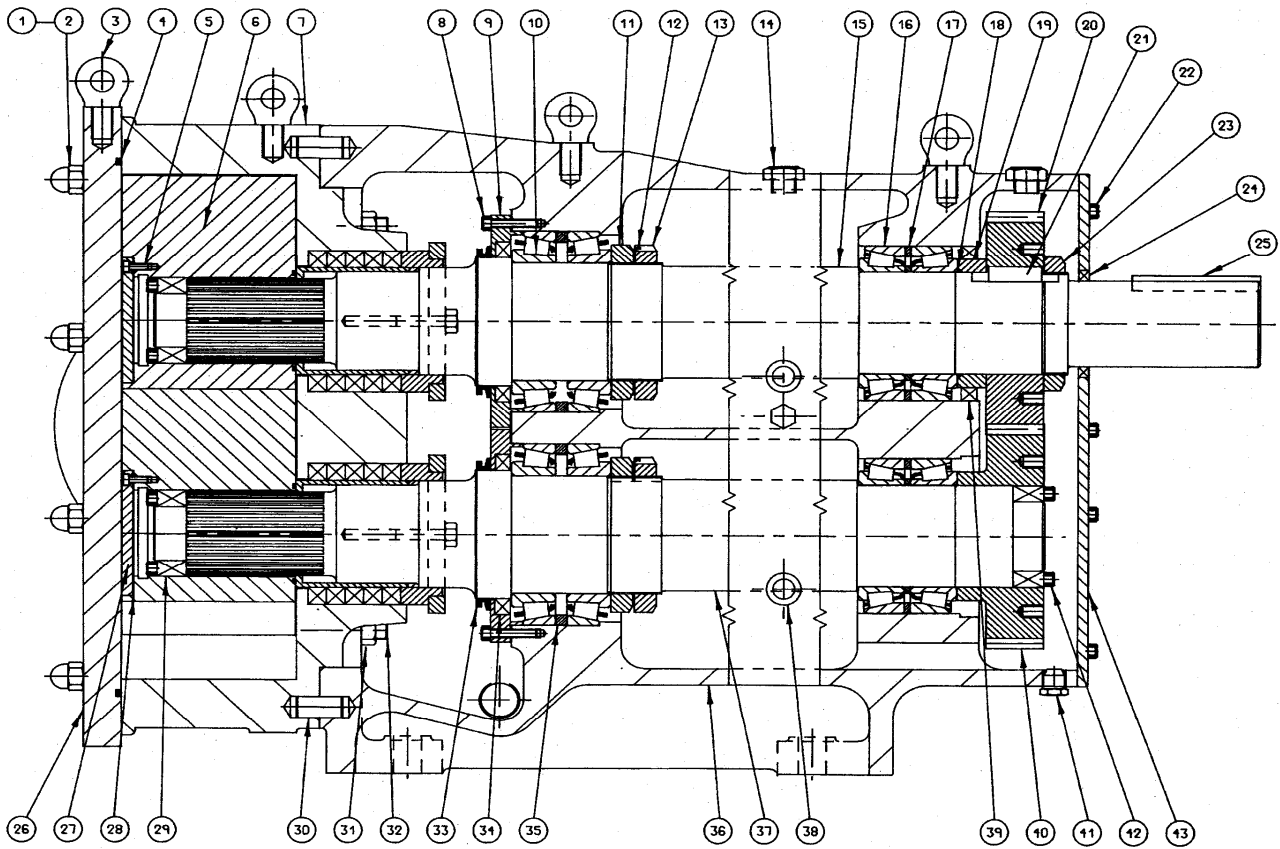


A8-0745 and A8-1149 Pumps				
Drg No.	Description		Qty	Part No.
1	Stud, rotorcase cover		8	6350.086
2	Dome nut, rotorcase cover		8	5340.030
3	Eyebolt (no longer supplied)		4	5190.000
4	O' Ring, rotorcase cover	NBR FPM EPDM PTFE	1	5380.004 5380.007 5380.081 5380.006
5	Screw, rotor cap		6	5990.052
6	Rotor, Trilobe, Stainless Steel	3.5 bar 70°C	2	5711.022A
		3.5 bar 130°C		5711.023A
		3.5 bar 200°C		5711.024A
		7 bar 70°C		5711.025A
		7 bar 130°C		5711.026A
		7 bar 200°C		5711.027A
		10 bar 70°C		5711.028A
		10 bar 130°C		5711.029A
		10 bar 200°C		5711.030A
		3.5 bar 70°C		5711.031A
		3.5 bar 130°C		5711.032A
		3.5 bar 200°C		5711.033A
		5 bar 70°C		5711.034A
		5 bar 130°C		5711.035A
		5 bar 200°C		5711.036A
		7 bar 70°C		5711.078A
		7 bar 130°C		5711.079A
		7 bar 200°C		5711.080A
7	Rotorcase 6" (150mm) flanged connections for A8-0745	R90	1	EN1092-1 B1 PN16 ASA150RF 9548.257A 9548.254A
		R90 Flush BSPT		EN1092-1 B1 PN16 ASA150RF 9548.257A 9548.254A
		R90 Flush NPT		ASA150RF 9548.254A
		Double R90		EN1092-1 B1 PN16 ASA150RF 9548.257A 9548.254A
		Double R90 BSPT		ASA150RF 9548.254A
		Double R90 NPT		ASA150RF 9548.254A
		Packed Gland		EN1092-1 B1 PN16 ASA150RF 9740.257A 9740.254A
		Packed Gland Flush BSPT		EN1092-1 B1 PN16 ASA150RF 9740.257A 9740.254A
	Rotorcase 8" (200mm) flanged connections for A8-1149	Packed Gland Flush NPT		ASA150RF 9740.254A
		R90		EN1092-1 B1 PN16 ASA150RF 9708.263A 9708.260A
		R90 Flush BSPT		EN1092-1 B1 PN16 ASA150RF 9708.263A 9708.260A
		R90 Flush NPT		ASA150RF 9708.260A
		Double R90		EN1092-1 B1 PN16 ASA150RF 9708.263A 9708.260A
		Double R90 BSPT		ASA150RF 9708.260A
		Double R90 NPT		ASA150RF 9708.260A
		Packed Gland		EN1092-1 B1 PN16 ASA150RF 9741.263A 9741.260A
		Packed Gland Flush BSPT		EN1092-1 B1 PN16 ASA150RF 9741.263A 9741.260A
		Packed Gland Flush NPT		ASA150RF 9741.260A
8	Screw, seal retainer		6	5990.017

A8-0745 and A8-1149 Pumps			
Drg No.	Description	Qty	Part No.
9	Retainer, seal	2	5550.007
10	Bearing, gland end	4	5080.009
11/13	Nut, bearing gland end	4	5340.036
12	Tab washer	2	6400.042
14	Filler plug	2	5470.031
15	Drive Shaft	1	6110.503
	A8-0745		6110.534
	A8-1149		
16/17	Bearing, drive end	2	5080.010
18	'O' Ring, NBR, bearing seal ring	1	5380.029
19	Ring, Bearing Seal	1	5600.003
20	Timing gear, keyed	1	5210.022
21	Key, timing gear	1	5270.028
22	Screw, gearcase cover	8	5990.030
23	Locking nut, timing gear	1	5340.037
24	Lip seal, drive end	1	5310.008
25	Key, drive shaft	1	5270.006
26	Cover, rotorcase	1	5130.136
	Plain		5130.195
	For Hinge		
27	Rotor cap	2	5110.044
28	Gasket, Rotor Cap	2	5198.114
29	Torque locking assembly, rotor	2	5615.005
30	Dowel	2	5170.020
31	Nut, gearcase/rotorcase stud	4	5330.002
32	Stud, gearcase/rotorcase	4	6350.003
33	Slinger	2	5665.022
34	Lip seal, gland end	2	5310.017
35	Spacer, bearing gland end	2	5670.039
36	Gearcase	1	5220.031
37	Shaft, auxiliary	1	6100.503
	A8-0745		6100.534
	A8-1149		
38	Sight glass	4	5480.001
39	Lip seal, timing gear	1	5310.017
40	Timing gear, TLA	1	5210.023
41	Drain plug	3	1660.008
42	Torque locking assembly, timing gear	1	5615.012
43	Cover, gearcase	1	5120.030
	Gland Guard	2	5243.012
	Screw, gland guard	8	5990.045
	Washer, gland guard	8	6400.128

A8-0745 and A8-1149 Pumps					
Drg No.	Description			Qty	Part No.
	<u>Rotorcase Cover Hinge Assembly</u>				
	Hinge Bracket			1	5087.015
	Hinge Arm			1	5087.016
	Flange Bracket	A8-0745	ASA150FF	1	5087.024
			EN1092-1 B1 PN16		5087.025
		A8-1149	ASA150FF		5087.027
			EN1092-1 B1 PN16		5087.028
	Dowel			2	5170.022
	Pin			2	5180.014
	Bush			4	5060.004
	Screw, rotorcase cover			2	5950.026
	Screw, flange			2	5950.040

A8 Pump Models - Sectional Drawing



R90 Single Mechanical Seals (Complete) - A7 and A8 Pump Models			
2 seals per pump. It is recommended to replace both sets of seals when wear dictates seal replacement			
Rotary Seal / Stationary Seal Ring	'O' Rings	A7-0550 Part No.	A8-0745 and A8-1149 Part No.
Stainless Steel / Carbon	NBR EPDM FPM PTFE	7400.106N 7400.106E 7400.106V 7400.106P	7400.107N 7400.107E 7400.107V 7400.107P
Stainless Steel / Inserted Carbon	NBR EPDM FPM PTFE	7400.146N 7400.146E 7400.146V 7400.146P	7400.147N 7400.147E 7400.147V 7400.147P
Tungsten Carbide / Inserted Carbon	NBR EPDM FPM PTFE	7400.166N 7400.166E 7400.166V 7400.166P	7400.167N 7400.167E 7400.167V 7400.167P
Tungsten Carbide / Tungsten Carbide	NBR EPDM FPM PTFE	7400.176N 7400.176E 7400.176V 7400.176P	7400.177N 7400.177E 7400.177V 7400.177P
Silicon Carbide / Inserted Carbon	NBR EPDM FPM PTFE	7400.196N 7400.196E 7400.196V 7400.196P	7400.197N 7400.197E 7400.197V 7400.197P
Silicon Carbide / Silicon Carbide	NBR EPDM FPM PTFE	7400.206N 7400.206E 7400.206V 7400.206P	7400.207N 7400.207E 7400.207V 7400.207P
Description	Qty	A7-0550 Part No.	A8-0745 and A8-1149 Part No.
Anti-Rotation Pin	6	5180.015	5180.015
Shaft Sleeve	2	6200.072	6200.084
Spacer, Shaft Sleeve	2	5670.016	5670.031
O' Ring, Shaft Sleeve	2	NBR 5380.136	5380.000
		EPDM 5380.158	5380.010
		FPM 5380.134	5380.133
		PTFE 5380.287	5380.013
Additional parts to convert pump fitted with above R90 seals to single flushed seals			
Description	Qty	A7-0550 Part No.	A8-0745 and A8-1149 Part No.
Rotorcase	1	see page 3	see page 6
Lip Seal (FPM)	2	5310.052	5310.128
Housing	2	BSPT 5265.197	5265.589A
		NPT -	5265.589B
Gasket	2	5198.111	5198.109
Stud	6	6350.103	-
Nut, Stud	6	5330.003	-
Housing 'O' Ring	2	NBR -	1550.162
		EPDM -	1555.162
		FPM -	1551.162
Screw, housing	16	-	5990.041
Washer	16	-	6400.046

R90 Double Mechanical Seals (Complete) - A7 Pump Models				
2 seals per pump. It is recommended to replace both sets of seals when wear dictates seal replacement.				
Inboard Seal	Outboard Seal	Inboard Seal 'O' Ring	Outboard Seal 'O' Ring	A7-0550
Rotary Seal / Stationary Seal Ring	Rotary Seal / Stationary Seal Ring			Part No.
Stainless Steel / Carbon	Stainless Steel / Carbon	NBR EPDM FPM PTFE PTFE PTFE PTFE	NBR EPDM FPM PTFE NBR EPDM FPM	7400.106N/106N 7400.106E/106E 7400.106V/106V 7400.106P/106P 7400.106P/P106N 7400.106P/P106E 7400.106P/P106V
Stainless Steel / Inserted Carbon	Stainless Steel / Inserted Carbon	NBR EPDM FPM PTFE PTFE PTFE PTFE	NBR EPDM FPM PTFE NBR EPDM FPM	7400.146N/146N 7400.146E/146E 7400.146V/146V 7400.146P/146P 7400.146P/P146N 7400.146P/P146E 7400.146P/P146V
Tungsten Carbide / Tungsten Carbide	Stainless Steel / Carbon	NBR EPDM FPM PTFE PTFE PTFE PTFE	NBR EPDM FPM PTFE NBR EPDM FPM	7400.176N/P106N 7400.176E/P106E 7400.176V/P106V 7400.176P/P106P 7400.176P/P106N 7400.176P/P106E 7400.176P/P106V
Tungsten Carbide / Tungsten Carbide	Tungsten Carbide / Tungsten Carbide	NBR EPDM FPM PTFE PTFE PTFE PTFE	NBR EPDM FPM PTFE NBR EPDM FPM	7400.176N/176N 7400.176E/176E 7400.176V/176V 7400.176P/176P 7400.176P/P176N 7400.176P/P176E 7400.176P/P176V
Silicon Carbide / Silicon Carbide	Stainless Steel / Carbon	NBR EPDM FPM PTFE PTFE PTFE PTFE	NBR EPDM FPM PTFE NBR EPDM FPM	7400.206N/P106N 7400.206E/P106E 7400.206V/P106V 7400.206P/P106P 7400.206P/P106N 7400.206P/P106E 7400.206P/P106V
Silicon Carbide / Silicon Carbide	Silicon Carbide / Silicon Carbide	NBR EPDM FPM PTFE PTFE PTFE PTFE	NBR EPDM FPM PTFE NBR EPDM FPM	7400.206N/206N 7400.206E/206E 7400.206V/206V 7400.206P/206P 7400.206P/P206N 7400.206P/P206E 7400.206P/P206V
Note: For A7-0550 seals where inboard and outboard seals are different, then there is an additional "P" in the part number to distinguish between A7-0550 seals and S6 seals.				
Description		Qty		A7-0550
				Part No.
Rotorcase				see page 3
Housing, BSPT		2		5265.213
Gasket		2		5198.111
Stud		6		6350.103
Nut, Stud		6		5330.003

R90 Double Mechanical Seals (Complete) - A8 Pump Models

4 seals per pump.
 Each double seal is comprised of 2 single seals "back-to-back".
 For part numbers of single seals see page 10.
 It is recommended to replace both sets of seals when wear dictates seal replacement.

Description	Qty	A8-0745 and A8-1149
		Part No.
Rotorcase		see page 6
Housing	2	5265.183A
		5265.183B
'O' Ring, Housing	2	1550.162
		1555.162
		1551.162
Screw	16	5950.058
Washer	16	6400.046
Anti-Rotation Pin	12	5180.015

Packed Gland Seals - A7 and A8 Pump Models				
Drg No.	Description	Qty	A7-0550 Part No	A8-0745 and A8-1149 Part No
1	Rotorcase	1	see page 3	see page 6
2	Shaft Sleeve 'O' Ring	2	NBR 5380.136	5380.000
			EPDM 5380.158	5380.010
			FPM 5380.134	5380.133
			PTFE 5380.287	5380.013
3	Shaft Sleeve, Hard Coated	2	6200.073	6200.092
4	Spacer, Shaft Sleeve	2	5670.016	5670.031
5	Gland Packing	2	Polyamide 5240.047	5240.045
			PTFE 5240.058	-
6	Lantern Ring (if fitted)	2	5650.013	5650.009
7	Gasket	2	-	-
8	Gland Follower, split	2	5230.037	5230.090
9	Gland Plate, split	2	5230.016	5230.091
10	Screw, gland follower	4	-	5990.028
11	Slinger	2	5665.017	5665.022
12	Stud	4	6350.083	6350.089
14	Nut	4	5330.000	5330.001
	Housing	2	Unflushed -	5265.590
			Flushed BSPT -	5265.590A
			Flushed NPT -	5265.590B
	Housing 'O' Ring	2	NBR -	1550.162
			EPDM -	1555.162
			FPM -	1551.162
	Screw, housing	16	-	5990.011

A7 and A8 Pump Rotor Torque Locking Assembly (TLA) Tool Kits				
Drg No.	Description	Qty	A7-0550 Part No.	A8-0745 and A8-1149 Part No.
	Rotor Clamping Tool	1	6380.003	6380.145
	Nut	1	5330.000	5330.000
	Screw	1	5950.040	5950.043

Revision History			
Issue	Ref	Date	Description
AP		1982	AP601 and AP801 introduced to replace AP600 and AP800
		1984	AP550 introduced
		1985	T80L mechanical seal replaces T80
		198?	Rotor cap retention method for stainless steel rotors upgraded on AP550, AP601, and AP801. MKII rotor cap is fixed to the shaft but the screw is now an integral part of the rotor cap. The existing rotor cap is retained for use with NBR covered rotors. AP550 rotor cap drg. no. 27 part number 5110.032 replaces part number 5110.025 for stainless steel rotors. AP601-801 rotor cap part number 5110.032 replaces part number 5110.015 for stainless steel rotors.
		198?	Rotor cap retention method for stainless steel rotors upgraded on AP550, AP601, and AP801. MKIII rotor cap is fixed to the rotor using 6 screws instead of directly to the shaft - drg no. 5, AP550 part number 5990.051 and AP601-801 part number 5990.052. AP550 rotor cap drg no. 27 part number 5110.043 replaces 5110.032. AP601-801 rotor cap part number 5110.044 replaces 5110.032. AP550 gasket drg no. 28 part number 5198.113 replaces rotor cap 'O' rings 5380.155 (NBR), 5380.175 (FPM), 5380.078 (EPDM) and 5380.205 (PTFE). AP601-801 gasket part number 5198.114 replaces rotor cap 'O' rings 5380.000 (NBR), 5380.010 (FPM), 5380.133 (EPDM), and 5380.013 (PTFE). AP550 rotor drg. no. 6 part numbers 5711.013A to 5711.021A replace part numbers 5710.930A to 5710.938A. AP601 rotor part numbers 5711.022A to 5711.030A replace part numbers 5710.872A to 5710.887A. AP801 rotor part numbers 5711.031A to 5711.036A and 5711.078A to 5711.080A replace part numbers 5710.939A to 5710.944A. New rotors can be fitted as spares if supplied with new rotor cap, gasket and screws.
		198?	AP550 drg no. 32 gearcase/rotorcase screw part number 5950.038 replaces part number 5950.012.
		198?	AP550 split gland follower part numbers 5230.016 and 5230.037 replace gland follower part number 5230.031
		1987	T87 mechanical seal replaces T80L
		1990	R90 mechanical seal replaces T87. The R90 is able to replace the T87 as a complete assembly.
		199?	AP601 gland follower part numbers 5230.090 and 5230.091 replace part numbers 5230.035 and 5230.036
		199?	AP550 drg no. 14 filler plug part number 31491.0052.1 replaces part number 1661.008.
		199?	AP601-801 drg no. 14 filler plug part number 5440.000 replaces 1660.008.
		1994	Gland Guards added
		199?	AP550-801 drg no. 38 sight glass part number 5480.001 replaces part number 5480.000.
Series A		01/11/2002	Series A range introduced with new nomenclature and replaces AP for SSP sales channels.
2.0	0606	01/06/2006	NEW MANUAL SERIES A7-8
2.1	CH-11058	14/02/2007	A8-0745 Rubber Rotors removed - part numbers 5710.994 and 5710.824
2.2	CH-11184	09/09/2008	A7-0550 Rubber Rotors removed - part numbers 5710.954 and 5710.955
2.3	CH-11023	09/10/2008	Seal housing 'O' Rings added for R90 Double Mechanical Seal on A8 pump.

Revision History (continued)			
Issue	Ref	Date	Description
2.4	CH-11322	19/07/2011	Gland guard washer part number changed.
2.5	CH-11355	19/07/2011	Note added to eyebolts advising no longer supplied.
2.6	CH-11378	19/07/2011	A7-0550 rotorcase cover stud part number changed.
2.7	CH-11504	16/06/2015	A7-0550 sectional drawing added.
2.8	CH-11703	16/06/2015	A8 R90 flushed lip seal P/N changed from 5310.033 to 5310.128
2.9	CH-11720	16/06/2015	A7 Rotorcase cover stud P/N changed from 6350.082 to 6350.139
2.10	CH-11862	16/06/2015	Flange description BS4504 changed to EN1092-1 B1 PN16.
3.0	-	01/07/2015	NEW ISSUE
3.1	CH-12150	19/10/2018	Filler plug P/N's changed from 31491.0052.1 and 5440.000 to 5470.031.
3.2	CH-12177	19/10/2018	A8-0745 Rotorcase P/N's changed with addition of housings.
3.3	CH-12178	19/10/2018	A8-1149 Rotorcase P/N's changed with addition of housings.