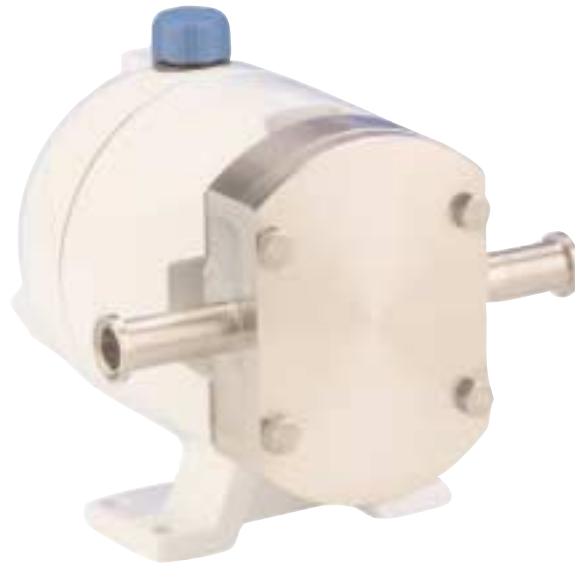


Spare Parts List

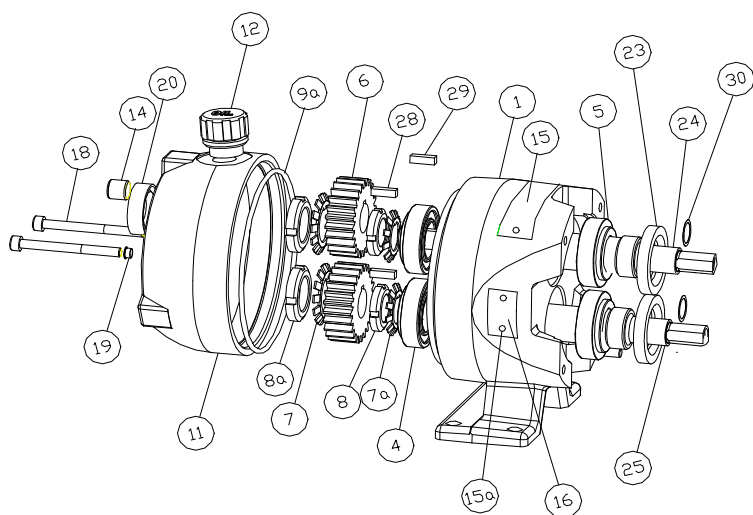
3 Size Pumps

Hy~Line



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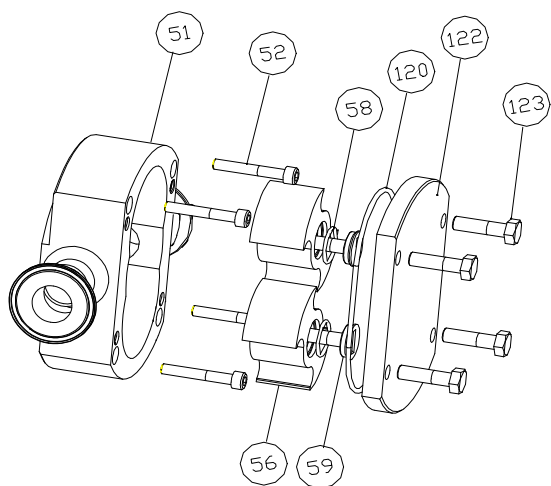
3 Size Pumps

Gearbox and Bearing Housing

Key No.	Description	Where used	Part No.	Qty Req.	
1	Bearing Carrier Housing (Aluminium)	32 & 34 Size	54305-0000	1	
4	Bearing - Rear	32 & 34 Size	92601-6002	2	
5	Bearing - Front	32 & 34 Size	92601-6002	2	
6	Timing Gear Set (2 gears per set)	32 & 34 Size	54308-0000	1	
7	Tab Washer - Gear Nut	32 & 34 Size	91602-6001	2	
7a	Tab Washer - Bearing Nut	32 & 34 Size	91613-6006	2	
8	Bearing Nut	32 & 34 Size	91085-6002	2	
8a	Gear Nut	32 & 34 Size	91085-6001	2	
9a	O-Ring - Gear Cover	32 & 34 Size	SP2000-03	1	
11	Gear Cover - Aluminium - Aluminium, Vertical Ports	32 & 34 Size	54306-0000 54306-1000	1	
12	Plug - Oil Filler/Breather	32 & 34 Size	24020-0002	1	
14	Drain Plug	32 & 34 Size	SP2650-0220	1	
15	Label - Hy~Line/Ultima	32 & 34 Size	23005-1390	1	
15a	Rivets	32 & 34 Size	X3058-022F	2	
16	Label - Model no., Spec	32 & 34 Size	23005-1919	1	
18	Screw - Gear Cover	32 & 34 Size	X3007-195F	2	
19	Washer, Gear Cover. Nylite	32 & 34 Size	SP1613-1389	1	
20	Lip Seal Rear - Gear Cover	32 & 34 Size	92701-6004	1	
23	Lip Seal Front - Bearing Carrier Housing (Silicone)	32 & 34 Size	92701-6066	2	
24	Shaft - Driving	32 Size 34 Size	54327-0000 54347-0000	1	
25	Shaft - Driven	32 Size 34 Size	54328-0000 54348-0000	1	
28	Key - Timing Gear Drive	32 & 34 Size	X4000-109A	2	
29	Key - Drive Shaft	32 & 34 Size	X4000-109A	2	
30	Shim Kit - Rotor Clearance	32 & 34 Size	55371-0000B	1	

	Gearbox Service Kit Consists of : 2 x Front Oil Seal for bearing housing (23) 2 x Rear Oil Seal for gear cover (20) 1 x Gasket - Gear cover (9a) 2 x Washer for sealing gear cover screws (19)	32 & 34 Size	54385-0000B	1	
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3 Size Pumps

Wet End -
Rotor Case & Rotors

Key No.	Description	Where used	Part No.	Qty Req.	
51	Rotor Case with welded ports & :- All Mech Seals - Tri - Clamp (BS4825 part 3) - Standard Standard Machined Finish	32 Size 34 Size	54323-1000 54343-1100	1	
	Electro-Polish Finish	32 Size 34 Size	54323-1090 54343-1190		
	0.5 Micron & Electro-Polish Finish	32 Size 34 Size	54323-1010 54343-1110		
	All Mech Seals - Tri - Clamp (BS4825 part 3) - Enlarged Standard Machined Finish	32 Size 34 Size	54323-1100 54343-1150		
	Electro-Polish Finish	32 Size 34 Size	54323-1190 34343-1159		
	0.5 Micron & Electro-Polish Finish	32 Size 34 Size	34323-1110 34343-1151		
	All Mech Seals - BSP (BS2779) - Standard Standard Machined Finish	32 Size 34 Size	54323-2000 54343-2100		
	Electro-Polish Finish	32 Size 34 Size	54323-2090 54343-2190		
	0.5 Micron & Electro-Polish Finish	32 Size 34 Size	54323-2010 54343-2110		
	All Mech Seals - BSP (BS2779) - Enlarged Standard Machined Finish	32 Size 34 Size	54323-2100 54343-2150		
	Electro-Polish Finish	32 Size 34 Size	54323-2190 34343-2159		
	0.5 Micron & Electro-Polish Finish	32 Size 34 Size	34323-2110 34343-2151		
	All Mech Seals - IDF (ISO 2853) - Standard Standard Machined Finish	32 Size 34 Size	54323-3000 54343-3100		
	Electro-Polish Finish	32 Size 34 Size	54323-3090 54343-3190		
	0.5 Micron & Electro-Polish Finish	32 Size 34 Size	54323-3010 54343-3110		
	All Mech Seals - IDF (ISO 2853) - Enlarged Standard Machined Finish	32 Size 34 Size	54323-3100 54343-3150		
	Electro-Polish Finish	32 Size 34 Size	54323-3190 34343-3159		
	0.5 Micron & Electro-Polish Finish	32 Size 34 Size	34323-3110 34343-3151		

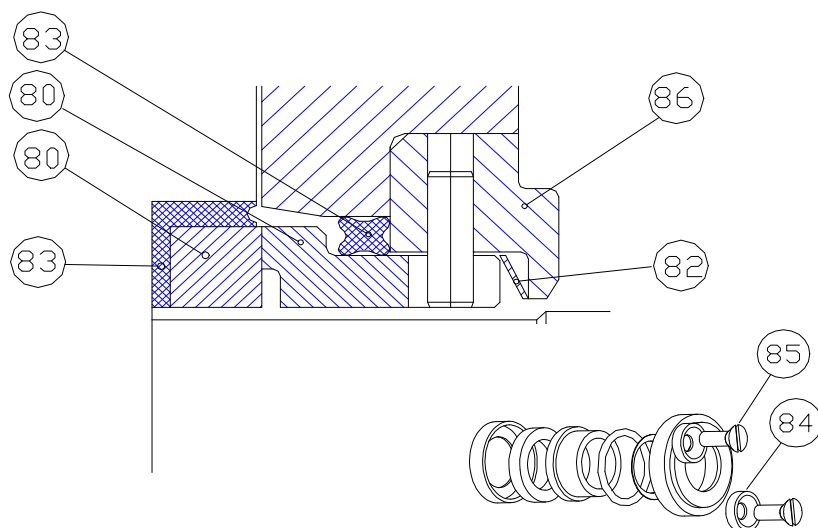
All Mech Seals - RJT (BS1864) - Standard	Standard Machined Finish	32 Size	54323-4000
		34 Size	54343-4100
	Electro-Polish Finish	32 Size	54323-4090
		34 Size	54343-4190
	0.5 Micron & Electro-Polish Finish	32 Size	54323-4010
		34 Size	54343-4110
All Mech Seals - RJT (BS1864) - Enlarged	Standard Machined Finish	32 Size	54323-4100
		34 Size	54343-4150
	Electro-Polish Finish	32 Size	54323-4190
		34 Size	34343-4159
	0.5 Micron & Electro-Polish Finish	32 Size	34323-4110
		34 Size	34343-4151
All Mech Seals - 3A ACME (BS3581) - Standard	Standard Machined Finish	32 Size	54323-5000
		34 Size	54343-5100
	Electro-Polish Finish	32 Size	54323-5090
		34 Size	54343-5190
	0.5 Micron & Electro-Polish Finish	32 Size	54323-5010
		34 Size	54343-5110
All Mech Seals - 3A ACME (BS3581) - Enlarged	Standard Machined Finish	32 Size	54323-5100
		34 Size	54343-5150
	Electro-Polish Finish	32 Size	54323-5190
		34 Size	34343-5159
	0.5 Micron & Electro-Polish Finish	32 Size	34323-5110
		34 Size	34343-5151
All Mech Seals - DIN 11851 - Standard	Standard Machined Finish	32 Size	54323-6000
		34 Size	54343-6100
	Electro-Polish Finish	32 Size	54323-6090
		34 Size	54343-6190
	0.5 Micron & Electro-Polish Finish	32 Size	54323-6010
		34 Size	54343-6110
All Mech Seals - DIN 11851 - Enlarged	Standard Machined Finish	32 Size	54323-6100
		34 Size	54343-6150
	Electro-Polish Finish	32 Size	54323-6190
		34 Size	34343-6159
	0.5 Micron & Electro-Polish Finish	32 Size	34323-6110
		34 Size	34343-6151
All Mech Seals - SMS 1146 - Standard	Standard Machined Finish	32 Size	54323-7000
		34 Size	54343-7100
	Electro-Polish Finish	32 Size	54323-7090
		34 Size	54343-7190
	0.5 Micron & Electro-Polish Finish	32 Size	54323-7010
		34 Size	54343-7110
All Mech Seals - SMS 1146 - Enlarged	Standard Machined Finish	32 Size	54323-7100
		34 Size	54343-7150
	Electro-Polish Finish	32 Size	54323-7190
		34 Size	34343-7159
	0.5 Micron & Electro-Polish Finish	32 Size	34323-7110
		34 Size	34343-7151

	All Mech Seals - NPT - Standard Standard Machined Finish	32 Size 34 Size	54323-9000 54343-9100		
	Electro-Polish Finish	32 Size 34 Size	54323-9090 54343-9190		
	0.5 Micron & Electro-Polish Finish	32 Size 34 Size	54323-9010 54343-9110		
	All Mech Seals - NPT - Enlarged Standard Machined Finish	32 Size 34 Size	54323-9100 54343-9150		
	Electro-Polish Finish	32 Size 34 Size	54323-9190 34343-9159		
	0.5 Micron & Electro-Polish Finish	32 Size 34 Size	34323-9110 34343-9151		
51	Rotor Case with welded ports, Flush & :- All Mech Seals - Tri - Clamp (BS4825 part 3) - Standard Standard Machined Finish	32 Size 34 Size	54323-1000F 54343-1100F	1	
	Electro-Polish Finish	32 Size 34 Size	54323-1090F 54343-1190F		
	0.5 Micron & Electro-Polish Finish	32 Size 34 Size	54323-1010F 54343-1110F		
	All Mech Seals - Tri - Clamp (BS4825 part 3) - Enlarged Standard Machined Finish	32 Size 34 Size	54323-1100F 54343-1150F		
	Electro-Polish Finish	32 Size 34 Size	54323-1190F 34343-1159F		
	0.5 Micron & Electro-Polish Finish	32 Size 34 Size	34323-1110F 34343-1151F		
	All Mech Seals - BSP (BS2779) - Standard Standard Machined Finish	32 Size 34 Size	54323-2000F 54343-2100F		
	Electro-Polish Finish	32 Size 34 Size	54323-2090F 54343-2190F		
	0.5 Micron & Electro-Polish Finish	32 Size 34 Size	54323-2010F 54343-2110F		
	All Mech Seals - BSP (BS2779) - Enlarged Standard Machined Finish	32 Size 34 Size	54323-2100F 54343-2150F		
	Electro-Polish Finish	32 Size 34 Size	54323-2190F 34343-2159F		
	0.5 Micron & Electro-Polish Finish	32 Size 34 Size	34323-2110F 34343-2151F		
	All Mech Seals - IDF (ISO 2853) - Standard Standard Machined Finish	32 Size 34 Size	54323-3000F 54343-3100F		
	Electro-Polish Finish	32 Size 34 Size	54323-3090F 54343-3190F		
	0.5 Micron & Electro-Polish Finish	32 Size 34 Size	54323-3010F 54343-3110F		
	All Mech Seals - IDF (ISO 2853) - Enlarged Standard Machined Finish	32 Size 34 Size	54323-3100F 54343-3150F		
	Electro-Polish Finish	32 Size 34 Size	54323-3190F 34343-3159F		
	0.5 Micron & Electro-Polish Finish	32 Size 34 Size	34323-3110F 34343-3151F		

	All Mech Seals - RJT (BS1864) - Standard	Standard Machined Finish	32 Size	54323-4000F		
			34 Size	54343-4100F		
	Electro-Polish Finish		32 Size	54323-4090F		
			34 Size	54343-4190F		
	0.5 Micron & Electro-Polish Finish		32 Size	54323-4010F		
			34 Size	54343-4110F		
	All Mech Seals - RJT (BS1864) - Enlarged	Standard Machined Finish	32 Size	54323-4100F		
			34 Size	54343-4150F		
	Electro-Polish Finish		32 Size	54323-4190F		
			34 Size	34343-4159F		
	0.5 Micron & Electro-Polish Finish		32 Size	34323-4110F		
			34 Size	34343-4151F		
	All Mech Seals - 3A ACME (BS3581) - Standard	Standard Machined Finish	32 Size	54323-5000F		
			34 Size	54343-5100F		
	Electro-Polish Finish		32 Size	54323-5090F		
			34 Size	54343-5190F		
	0.5 Micron & Electro-Polish Finish		32 Size	54323-5010F		
			34 Size	54343-5110F		
	All Mech Seals - 3A ACME (BS3581) - Enlarged	Standard Machined Finish	32 Size	54323-5100F		
			34 Size	54343-5150F		
	Electro-Polish Finish		32 Size	54323-5190F		
			34 Size	34343-5159F		
	0.5 Micron & Electro-Polish Finish		32 Size	34323-5110F		
			34 Size	34343-5151F		
	All Mech Seals - DIN 11851 - Standard	Standard Machined Finish	32 Size	54323-6000F		
			34 Size	54343-6100F		
	Electro-Polish Finish		32 Size	54323-6090F		
			34 Size	54343-6190F		
	0.5 Micron & Electro-Polish Finish		32 Size	54323-6010F		
			34 Size	54343-6110F		
	All Mech Seals - DIN 11851 - Enlarged	Standard Machined Finish	32 Size	54323-6100F		
			34 Size	54343-6150F		
	Electro-Polish Finish		32 Size	54323-6190F		
			34 Size	34343-6159F		
	0.5 Micron & Electro-Polish Finish		32 Size	34323-6110F		
			34 Size	34343-6151F		
	All Mech Seals - SMS 1146 - Standard	Standard Machined Finish	32 Size	54323-7000F		
			34 Size	54343-7100F		
	Electro-Polish Finish		32 Size	54323-7090F		
			34 Size	54343-7190F		
	0.5 Micron & Electro-Polish Finish		32 Size	54323-7010F		
			34 Size	54343-7110F		
	All Mech Seals - SMS 1146 - Enlarged	Standard Machined Finish	32 Size	54323-7100F		
			34 Size	54343-7150F		
	Electro-Polish Finish		32 Size	54323-7190F		
			34 Size	34343-7159F		
	0.5 Micron & Electro-Polish Finish		32 Size	34323-7110F		
			34 Size	34343-7151F		

	All Mech Seals - NPT - Standard Standard Machined Finish	32 Size 34 Size	54323-9000F 54343-9100F		
	Electro-Polish Finish	32 Size 34 Size	54323-9090F 54343-9190F		
	0.5 Micron & Electro-Polish Finish	32 Size 34 Size	54323-9010F 54343-9110F		
	All Mech Seals - NPT - Enlarged Standard Machined Finish	32 Size 34 Size	54323-9100F 54343-9150F		
	Electro-Polish Finish	32 Size 34 Size	54323-9190F 34343-9159F		
	0.5 Micron & Electro-Polish Finish	32 Size 34 Size	34323-9110F 34343-9151F		
52	Screw - Rotor Case	32 & 34 Size	X3007-186F	4	
56	Rotor Kit (Includes 2 x rotors) High Pressure (316L SS) - Standard Machined	32 Size 34 Size	54322-0009B 54342-0009B	1	
	High Pressure (316L SS) - Electro-Polish	32 Size 34 Size	54322-0099B 54342-0099B		
	High Pressure (316L SS) - 0.5 Micron & Electro-Polish	32 Size 34 Size	54322-0019B 54342-0019B		
	High Efficiency (316L SS) - Standard Machined	32 Size	54322-0008B		
	High Efficiency (316L SS) - Electro-Polish	32 Size	54322-0098B		
	High Efficiency (316L SS) - 0.5 Micron & Electro-Polish	32 Size	54322-0019B		
58	O-Ring - Rotor Retainer - Nitrile - EPDM - Viton - PTFE	32 & 34 Size 32 & 34 Size 32 & 34 Size 32 & 34 Size	92000-6047 92000-6058 92000-6057 92000-6059	2	
59	Rotor Retaining Screw	32 & 34 Size	54325-0000	2	
120	O-Ring - End Cover - Nitrile - EPDM - Viton - PTFE	32 & 34 Size 32 & 34 Size 32 & 34 Size 32 & 34 Size	92000-6049 92000-6055 92000-6054 92000-6056	1	
122	End Cover - Plain O-Ring Joint 316 SS Standard Machined Finish Electro-Polish Finish 0.5 Micron & Electro-Polish Finish	32 & 34 Size 32 & 34 Size 32 & 34 Size	54309-0000 54309-0090 54309-0010	1	
123	Bolt - End Cover	32 & 34 Size	X3001-209F	4	

3 Size Pumps

Single Mechanical
Seals

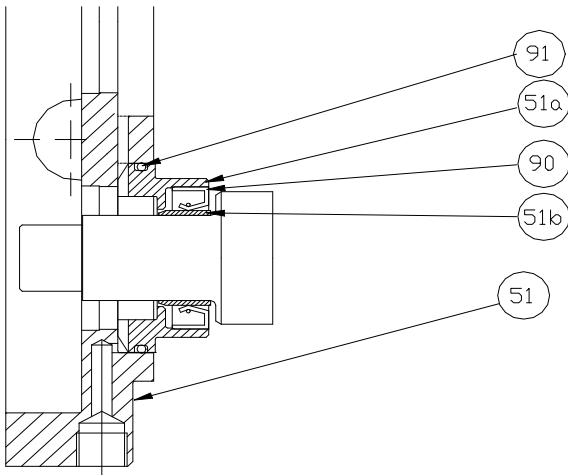
Key No.	Description	Where used	Part No.	Qty Req.	
80	Primary Seal Face Kit (Includes both faces) - Carbon/Stainless Steel - Carbon/Silicon Carbide - Silicon Carbide/Silicon Carbide	32 & 34 Size 32 & 34 Size 32 & 34 Size	96080-6007 SP6080-0528 SP6080-0527	2	
82	Wave Spring - Mechanical Seal	32 & 34 Size	X5250-005	2	
83	Single Seal Trim Kit - Nitrile - EPDM - Viton - PTFE / Kalrez	32 & 34 Size 32 & 34 Size 32 & 34 Size 32 & 34 Size	96080-6008 SP6080-0545 96080-0619 SP6080-0547	2	
84	Clamp Plate	32 & 34 Size	55043-0000	4	
85	Screw - Seal Housing	32 & 34 Size	X3005-178F	4	
86	Seal Housing Kit (includes wave spring)	32 & 34 Size	SP6080-0538	2	

	Pump Head Trim Kit - Nitrile - EPDM - Viton - PTFE	32 & 34 Size 32 & 34 Size 32 & 34 Size 32 & 34 Size	54384-9070B 54384-9077B 54384-9074B 54384-9072B	1	
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Consists of: 2 x Single seal trim kit (83), 2 x O-Ring rotor retainer (58), 1 x End cover o-ring (120),
2 x O-Ring shim retention (30)

	Seal Service Kit Carbon/Stainless - Nitrile - EPDM - Viton - PTFE Carbon/Silicon Carbide - Nitrile - EPDM - Viton - PTFE Silicon Carbide/Silicon Carbide - Nitrile - EPDM - Viton - PTFE	32 & 34 Size	54399-0001 54399-0003 54399-0005 54399-0007 54399-0009 54399-0011 54399-0013 54399-0015 54399-0017 54399-0019 54399-0021 54399-0023	1	
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Consists of: 2 x Primary seal face kit (80), 1 x Pump head trim kit, 2 x Seal housing kit (86), 1 x Shim kit (30)



3 Size Pumps

Flush for Single Mechanical Seals

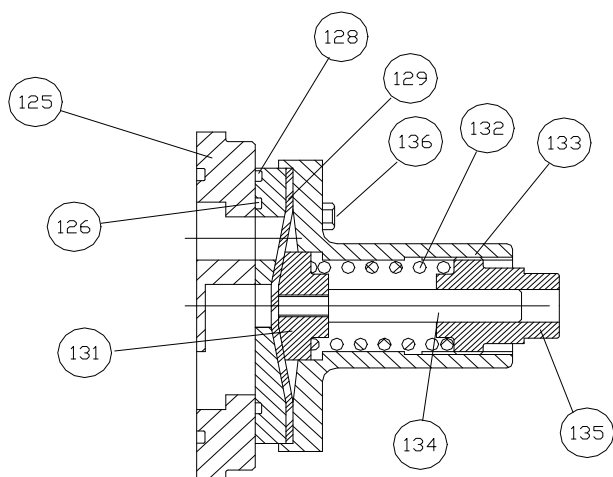
Key No.	Description	Where used	Part No.	Qty Req.	
51	Rotor Case - Flushed	32 Size 34 Size	See Rotor Case Part No.'s	1	
51a	Housing - Flushed Seal	32 & 34 Size	54344-0000	2	
51b	Sleeve	32 & 34 Size	54351-0011	2	
90	Lip Seal - Viton - Nitrile	32 & 34 Size 32 & 34 Size	92700-1050 92701-1035	2	
91	O-Ring - Nitrile	32 & 34 Size	92000-6034	2	

	Flushed Seal Housing Kit - Viton - Nitrile Consists of: 2 x Housing - Flushed Seal 2 x O-Ring - Nitrile 2 x Lip Seal - Viton 2 x Sleeve	32 & 34 Size	54345-0001 54345-0000	1	
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	Flushed Seal Conversion:- Order Flush rotor case (51) & Flushed seal housing kit				
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3 Size Pumps

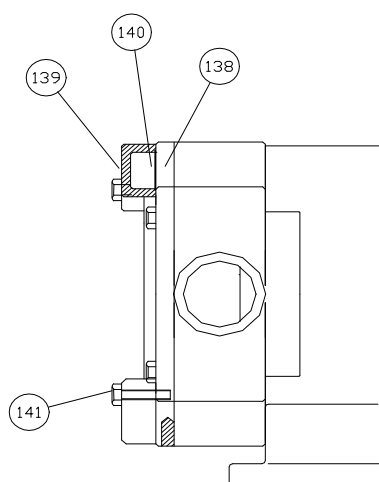
Relief Valves



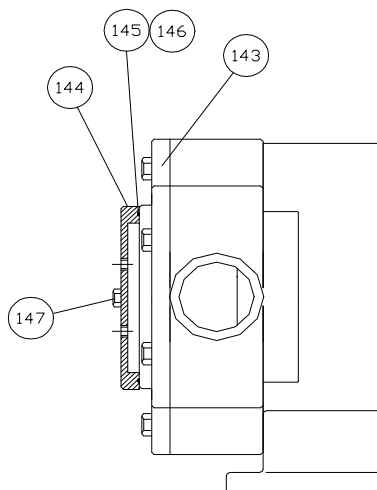
Key No.	Description	Where used	Part No.	Qty Req.	
Relief Valve					
125	End Cover	32 & 34 Size	54309-0001	1	
126	O-Ring - Relief Valve - Nitrile - PTFE - Viton	32 & 34 Size	X1990-119 X1990-123 92000-6068	1	
128	Seat - Relief valve	32 & 34 Size	54372-0000	1	
129	Diaphragm - Relief Valve - Nitrile - PTFE	32 & 34 Size	54373-0000 54373-0001	1	
131	Plunger	32 & 34 Size	24074-0000	1	
132	Spring - Relief Valve	32 & 34 Size	24075-0000	1	
133	Housing	32 & 34 Size	54382-0000	1	
134	Valve Guide	32 & 34 Size	24072-0000	1	
135	Adjusting Screw	32 & 34 Size	24078-0000	1	
136	Bolt - Relief Valve	32 & 34 Size	X3001-184F	4	
	Relief Valve Kit (includes all of the components above)	32 & 34 Size	54381-0000B	1	

3 Size Pumps

Thermal Jackets



Thermal Jacket - Pump Head



Thermal Jacket - End Cover

Key No.	Description	Where used	Part No.	Qty Req.	
Thermal Jacket - Pump Head					
138	End Cover	32 & 34 Size	54309-0003	1	
139	Jacket	32 & 34 Size	54301-0001	2	
140	O-Ring	32 & 34 Size	92000-1457	2	
141	Screws	32 & 34 Size	X3001-213F	4	

Pump Head Jacket Kit (Includes all of the components above)	32 & 34 Size	54380-0003B	1	
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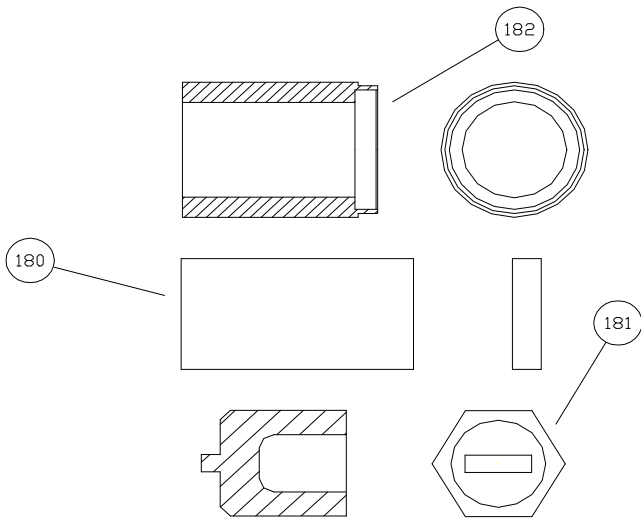
Thermal Jacket - End Cover					
143	End Cover	32 & 34 Size	54309-0004	1	
144	Jacket	32 & 34 Size	54379-0000	1	
145	O-Ring - Outer	32 & 34 Size	X4020-374B	1	
146	O-Ring - Inner	32 & 34 Size	X4020-112B	1	
147	Screws	32 & 34 Size	X3007-178F	1	

End Cover Jacket Kit (Includes all of the components above)	32 & 34 Size	54380-0004B	1	
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Relief Valve with Thermal Jacket - End Cover	32 & 34 Size	54380-0009B	1	
Consists of:				
1 x End cover (138), 1 x O-Ring - valve (126), 1 x Seat - valve (128)				
1 x Diaphragm (129), 1 x Plunger (131), 1 x Spring (132), 1 x Housing (133)				
1 x Valve guide (134), 1 x Adjusting screw (135), 2 x bolts (136)				
2 x Jacket (139), 2 x O-ring (140) & 4 x Screws (141)				

3 Size Pumps

Tools



Key No.	Description	Where used	Part No.	Qty Req.	
180	Tool - Rotor Locking Pad	32 & 34 Size	55027-0000	1	
181	Socket Tool - Rotor Retainer	32 & 34 Size	54376-0000	1	
182	Tool - Seal Seat Removal	32 & 34 Size	55274-0000	1	