

Parts list

APP Pumps

APP 53 / APP 65 / APP 78 / APP 86 / APP 92

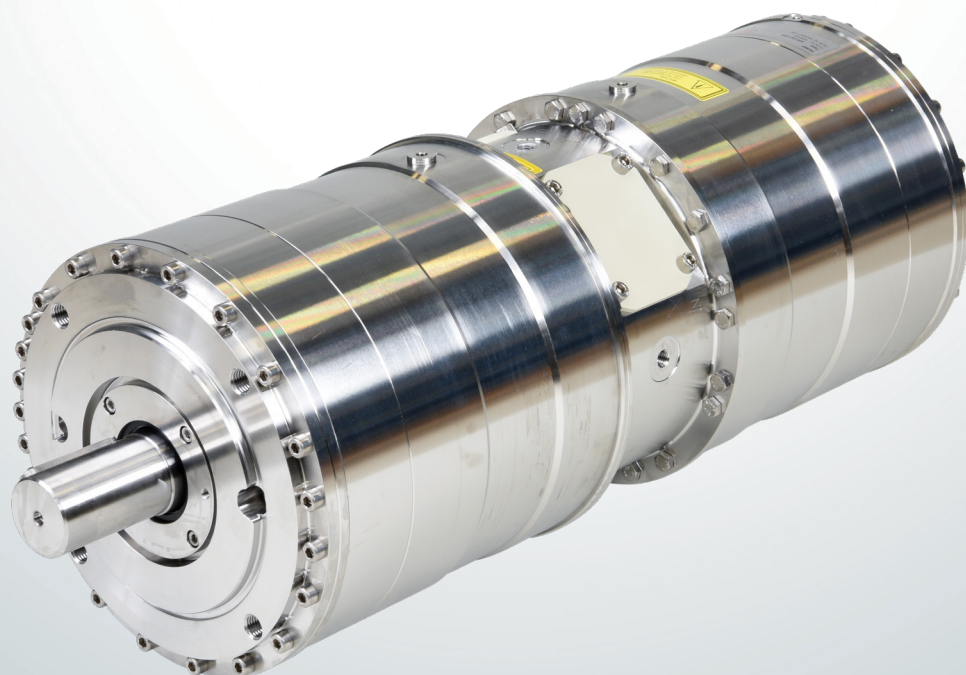


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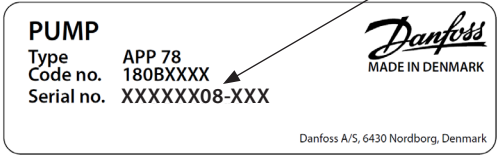
1. Validity

This Parts list contains two part list tables, for serial numbers:

- 07 and higher and
- up to 06

You find the serial number in the label of the pump.

The serial no. is referring to the Serial no. on the product label. The digits shown (08) indicate the version number of the pump.



Parts list

APP 53-92 Pumps

2. Parts list APP 53-92 - serial no. 07 or higher

Pos.	Qty.	Description	Material	180B4634 - APP 53-92 Screw kit	180B4635 - APP 53-92 Shaft seal kit	180B4636 - APP 53-92 Seal kit exc. shaft seal	180B4553 - APP 53 Piston kit	180B4554 - APP 65-92 Piston kit	180B4555 - APP 53-65 Retainer kit	180B4566 - APP 78 Retainer kit	180B4562 - APP 86-92 Retainer kit	180B4557 - APP 53-65 Valve plate kit	180B4558 - APP 78-92 Valve plate kit	180B4560 - APP 53 Swash plate kit	180B4601 - APP 65 Swash plate kit	180B4561 - APP 78-92 Swash plate kit	180B4566 - APP 53-92 Flushing valve kit	180B4559 - APP 53-92 Cylinder barrel kit	180B4649 - APP 53-92 Port flange kit ²⁾
0001	2	Complete Housing	1.4470/PEEK																
0002	4	Pin ø6 x 10	A4			x													
0003	6	Bleeding plug G1/4"	1.4410			x													
0004	6	O-ring (ø11 x 2 mm)	NBR			x													
0005	51	Cyl.screw M8 x 30 A4-80	A4-80	x															
0006	2	Screw M8 x 16 A4-80	A4-80	x															
0009	4	O-ring (ø228x 4 mm)	NBR			x	x	x											x
0010	4	O-ring (ø9.2 x 2.6 mm)	NBR											x	x	x			
0011	1	End flange	1.4462																
0014	1	Motor flange APP 53 - 92	1.4462																
0144	4	Threaded pin M16 x 80	A4																
0145	4	Hex lock nut M16	A4																
0147	4	Washer ø17xø30x3	A4																
0031	1	Swash plate APP 53 (non-drive end)	1.4410											x					
0031	1	Swash plate APP 65 (non-drive end)	1.4410												x				
0031	1	Swash plate APP 78-92 (non-drive end)	1.4410													x			
0032	1	Swash plate APP 53 (drive end)	1.4410											x					
0032	1	Swash plate APP 65 (drive end)	1.4410												x				
0032	1	Swash plate APP 78-92 (drive end)	1.4410													x			
0033	2	Distance washer ¹⁾	PP													x			
0034	4	Pin (ø10.5 x 20)	1.4410			x								x	x	x			
0064	2	Retainer ball DLC	1.4410/DLC						x	x	x								
0065	2	Ass. Retainer plate	1.4410/PEEK						x	x	x								
0061	2	Cyl.barrel with insert	1.4410/PEEK															x	
0066	18	Piston	1.4410/PEEK				x												
0066	18	Piston w. insert	1.4410/PEEK					x											
0067	1	Key (14 x 9 x 70)	A4			x													
0068	1	Shaft APP H	1.4410																
0069	1	Distance pipe APP 53-92	1.4462																
0070	2	Pin (ø10.5 x 20)	1.4410															x	
0072	1	Cone bushing DLC	1.4410/DLC															x	
0073	1	Screw M16x75 DLC	1.4410/DLC															x	
0074 ³⁾	1	Washer	1.4547	x	x	x						x	x					x	x
0081	9	Compression spring (ø1.9 x ø11 x 45.3)	1.4462									x	x						
0082	2	Assembly spring guide APP 53-65	1.4410/PP						x										
0082	2	Assembly spring guide APP 78	1.4410/PP							x									
0082	2	Assembly spring guide APP 86-92	1.4410/PP								x								
0091	1	Port plate	1.4410/PEEK									x							
0091	1	Port plate 17	1.4410/PEEK										x						
0092	2	Int. Valve plate	1.4410									x							
0092	2	Int. Valve plate 17	1.4410										x						
0095	1	Port plate (shaft side)	1.4410/PEEK									x							
0095	1	Port plate (shaft side) 17	1.4410/PEEK										x						
0093	18	Back-up ring	PTFE/Carbon			x						x	x						
0094	18	O-ring (ø30.2 x 3 mm)	NBR			x						x	x						

Parts list

APP 53-92 Pumps

Parts list (continued)
APP 53-92 - serial no. 07 or higher

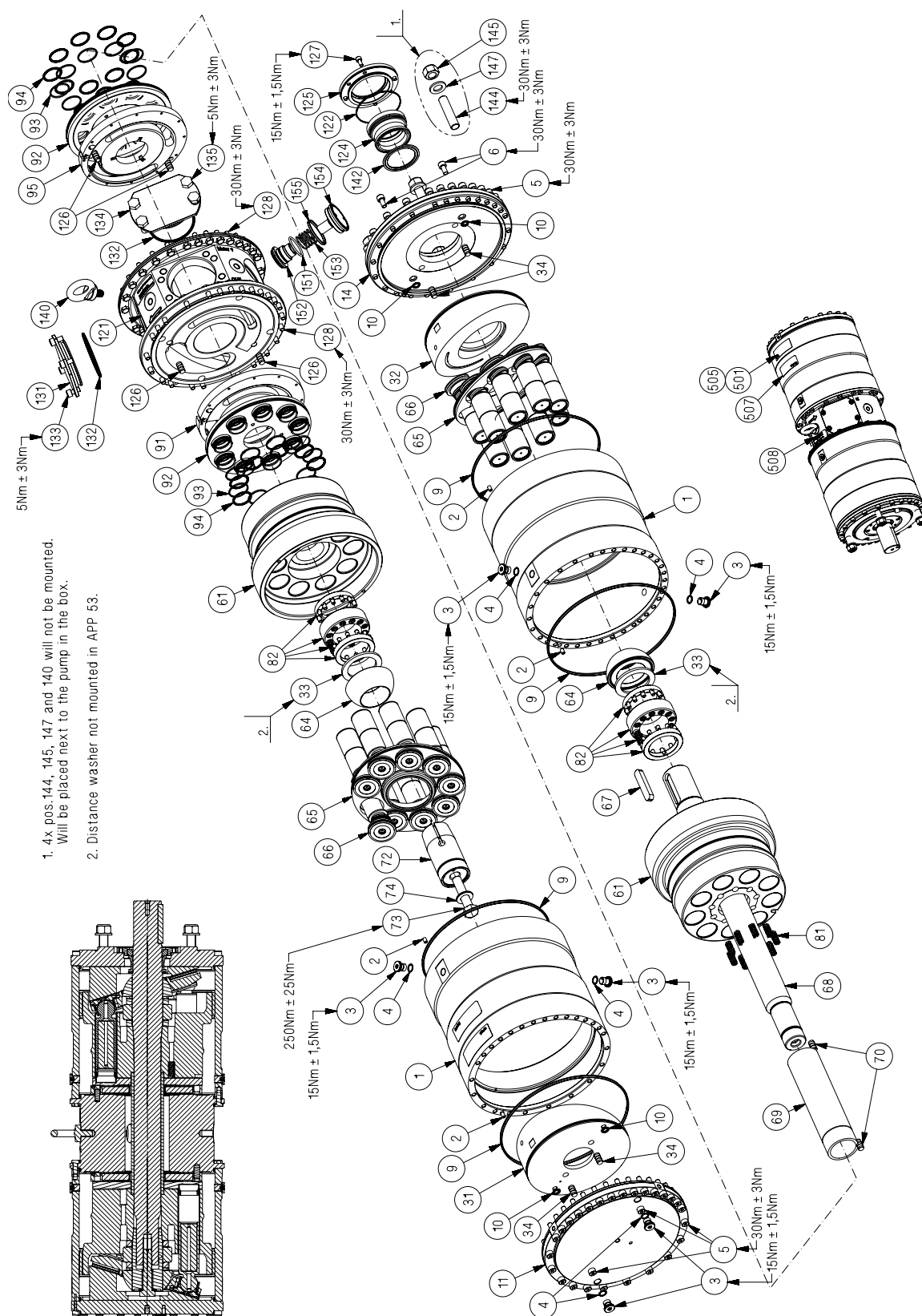
Pos.	Qty.	Description	Material	180B4634 - APP 53-92 Screw kit	180B4635 - APP 53-92 Shaft seal kit/seal kit	180B4636 - APP 53-92 Seal kit exc. shaft seal	180B4553 - APP 53 Piston kit	180B4554 - APP 65-92 Piston kit	180B4555 - APP 53-65 Retainer kit	180B4566 - APP 78 Retainer kit	180B4562 - APP 86-92 Retainer kit	180B4557 - APP 53-65 Valve plate kit	180B4558 - APP 78-92 Valve plate kit	180B4560 - APP 53 Swash plate kit	180B4601 - APP 65 Swash plate kit	180B4561 - APP 78-92 Swash plate kit	180B4556 - APP 53-92 Flushing valve kit	180B4559 - APP 53-92 Cylinder barrel kit	180B4649 - APP 53-92 Port flange kit ²⁾
0121	1	Center flange APP H	1.4462																x
0122	1	O-ring (ø80.0 x 2 mm)	NBR			x													
0124	1	Shaft seal	NBR		x														
0125	1	Cover for shaft seal	1.4462																
0126	4	Pin (ø10.5 x 20)	1.4410									x	x						x
0127	4	Screw M6 x 12 A4-80	A4-80		x														
0128	50	Screw M8 x 20 A4-80	A4-80	x															
0131	1	3" Cover for Inlet port	PP																
0132	2	O-ring (ø79 x 3.5)	NBR			x													
0133	4	Screw M8 x 16 A4-80	A4-80																
0134	1	3" Cover for Outlet port	PP																
0135	4	Screw M10 x 16 A4-80	A4-80																
0140	1	Lifting eye M12 (DIN 580E)	AISI 316																
0142	1	Washer for shaft seal	1.4462		x														
0151	1	O-ring (ø35 x 3)	NBR			x											x		
0152	1	Valve cone	1.4410														x		
0153	1	Compression spring	1.4462														x		
0154	1	Plug/guide	1.4410														x		
0155	1	O-ring (ø47.2 x 3.5)	NBR			x											x		
	1	Instruction		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

¹⁾ Not mounted in APP 53

²⁾ Only compatible with pump series 08 or higher

³⁾ Item 0074 is only available in series 09 and later. However, as the washer is compatible with older versions, it can be added during servicing.

3. Exploded view APP 53-92 serial no. 07 or higher



Parts list

APP 53-92 Pumps

4. Parts list APP 53-86 - serial no. up to 06

Pos.	Qty.	Description	Material	180B4552 - APP 53-86 Screw & seal kit	180B4553 - APP 53 Piston kit	180B4554 - APP 65-86 Piston kit	180B4555 - APP 53-65 Retainer kit	180B4556 - APP 78 Retainer kit	180B4562 - APP 86 Retainer kit	180B4557 - APP 53-65 Valve plate kit	180B4558 - APP 78-86 Valve plate kit	180B4560 - APP 53 Swash plate kit	180B4601 - APP 65 Swash plate kit	180B4561 - APP 78-86 Swash plate kit	180B4556 - APP 53-86 Flushing valve kit	180B4559 - APP 53-86 Cylinder barrel kit
0001	2	Complete Housing	1.4470/PEEK													
0002	4	Pin ø6 x 10	A4	x												
0003	6	Bleeding plug G1/4"	1.4410													
0004	6	O-ring (ø11 x 2 mm)	NBR	x												
0005	32	Cyl.screw M8 x 30 A4-80	A4-80	x												
0006	2	Screw M8 x 16 A4-80	A4-80	x												
0009	4	O-ring (ø228x 4 mm)	NBR	x	x	x										
0010	4	O-ring (ø9,2 x 2,6 mm)	NBR	x								x	x	x		
0011	1	End flange	1.4462													
0014	1	Motor flange APP H	1.4462													
0144	4	Threaded pin M16 x 70	A4													
0145	4	Hex lock nut M16	A4													
0147	4	Washer ø17xø30x3	A4													
0031	1	Swash plate APP 53 (non-drive end)	1.4410									x				
0031	1	Swash plate APP 65 (non-drive end)	1.4410										x			
0031	1	Swash plate APP 78-86 (non-drive end)	1.4410											x		
0032	1	Swash plate APP 53 (drive end)	1.4410									x				
0032	1	Swash plate APP 65 (drive end)	1.4410										x			
0032	1	Swash plate APP 78-86 (drive end)	1.4410											x		
0033	2	Distance washer ¹⁾	PP										x	x		
0034	4	Pin (ø10,5 x 20)	1.4410	x								x	x	x		
0064	2	Retainer ball DLC	1.4410/DLC				x	x	x							
0065	2	Ass. Retainer plate	1.4410/PEEK				x									
0065	2	Ass. Retainer plate 17	1.4410/PEEK					x	x							
0061	2	Cyl.barrel with insert	1.4410/PEEK													x
0066	18	Piston	1.4410/PEEK		x											
0066	18	Piston w. insert	1.4410/PEEK			x										
0067	1	Key (14 x 9 x 70)	A4	x												
0068	1	Shaft APP H	1.4410													
0069	1	Distance pipe APP H	1.4462													
0070	2	Pin (ø10,5 x 20)	1.4410													x
0072	1	Cone bushing DLC	1.4410/DLC													x
0073	1	Screw M16x75 DLC	1.4410/DLC													x
0074 ²⁾	1	Washer	1.4547	x						x	x					x
0081	9	Compression spring (ø1,9 x ø11 x 45,3)	1.4462							x	x					
0082	2	Assembly spring guide APP 53-65	1.4410/PP				x									
0082	2	Assembly spring guide APP 78	1.4410/PP					x								
0082	2	Assembly spring guide APP 86	1.4410/PP						x							
0091	1	Port plate	1.4410/PEEK							x						
0091	1	Port plate 17	1.4410/PEEK								x					
0092	2	Int. Valve plate	1.4410/PP							x						
0092	2	Int. Valve plate 17	1.4410/PP								x					
0093	18	Back-up ring	PTFE/Carbon	x						x	x					
0094	18	O-ring (ø30,2 x 3 mm)	NBR	x						x	x					
0095	1	Port plate (shaft side)	1.4410/PEEK							x						
0095	1	Port plate (shaft side) 17	1.4410/PEEK								x					

Parts list

APP 53-92 Pumps

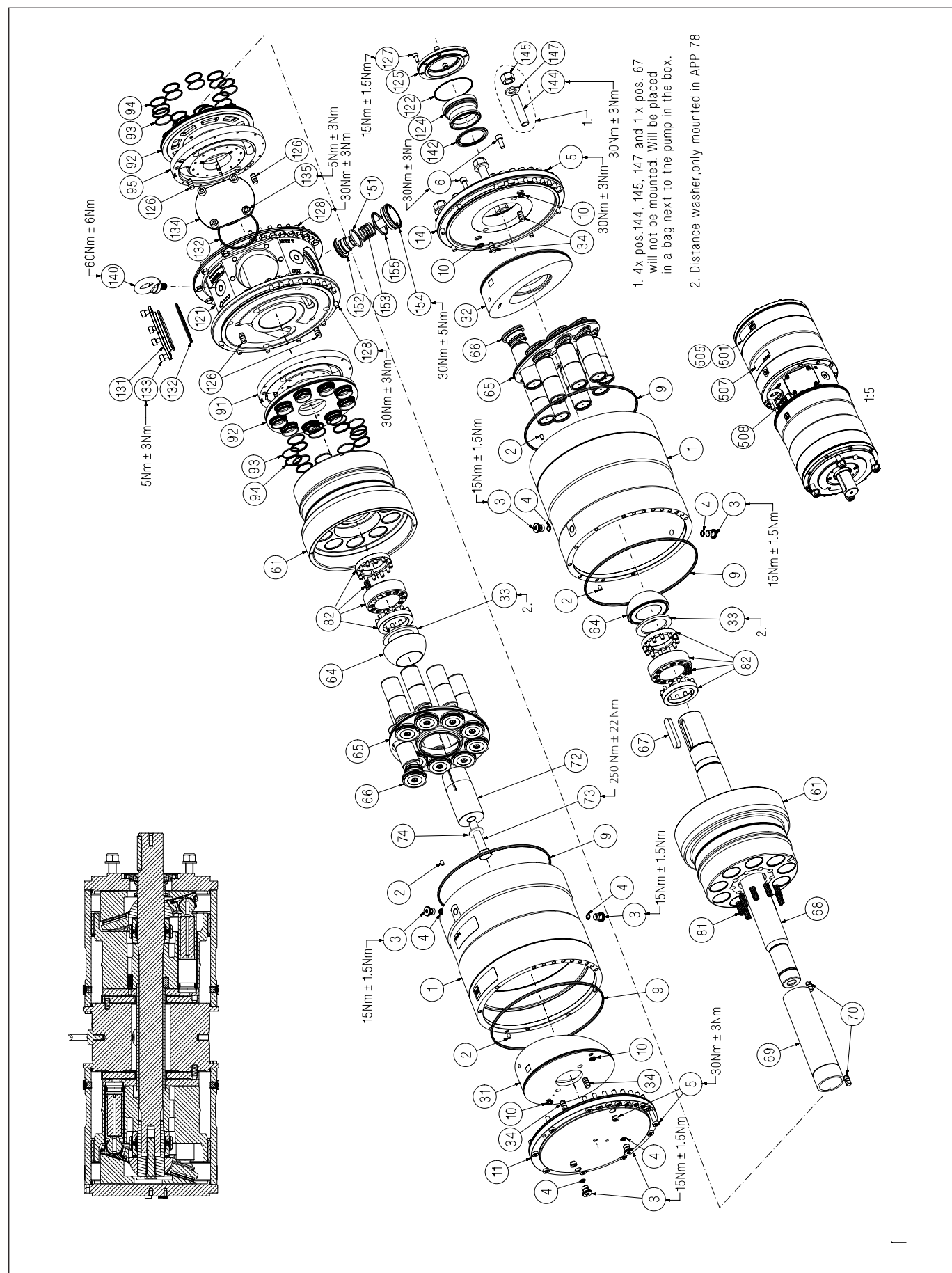
Parts list (continued) APP 53-86 - serial no. up to 06

Pos.	Qty.	Description	Material	180B4552 - APP 53-86 Screw & seal kit	180B4553 - APP 53 Piston kit	180B4554 - APP 65-86 Piston kit	180B4555 - APP 53-65 Retainer kit	180B4566 - APP 78 Retainer kit	180B4562 - APP 86 Retainer kit	180B4557 - APP 53-65 Valve plate kit	180B4558 - APP 78-86 Valve plate kit	180B4560 - APP 53 Swash plate kit	180B4601 - APP 65 Swash plate kit	180B4561 - APP 78-86 Swash plate kit	180B4556 - APP 53-86 Flushing valve kit	180B4559 - APP 53-86 Cylinder barrel kit
0121	1	Center flange APP H	1.4462													
0122	1	O-ring (ø80.0 x 2 mm)	NBR	x												
0124	1	Shaft seal	NBR	x												
0125	1	Cover for shaft seal	1.4462													
0126	4	Pin (ø10.5 x 20)	1.4410	x						x	x					
0127	4	Screw M6 x 12 A4-80	A4-80	x												
0128	30	Screw M8 x 20 BUMAX	A4-100	x												
0131	1	3" Cover for Inlet port	PP													
0132	2	O-ring (ø79 x 3.5)	NBR	x												
0133	4	Screw M8 x 16 A4-80	A4-80													
0134	1	3" Cover for Outlet port	PP													
0135	4	Screw M10 x 16 A4-80	A4-80													
0140	1	Lifting eye M12 (DIN 580E)	AISI 316													
0142	1	Washer for shaft seal	1.4462	x												
0151	1	O-ring (ø35 x 3)	NBR	x											x	
0152	1	Valve cone	1.4410												x	
0153	1	Compression spring	1.4462												x	
0154	1	Plug/guide	1.4410												x	
0155	1	O-ring (ø47.2 x 3.5)	NBR	x											x	
	1	Instruction		x	x	x	x	x	x	x	x	x	x	x	x	x

¹⁾ Not mounted in APP 53

²⁾ Item 0074 is only available in series 09 and later. However, as the washer is compatible with older versions, it can be added during servicing.

5. Exploded view APP 53-86 - serial no. up to 06



6. Tool sets

Note:

The parts listed are not sold separately, only in various kits.

Designation	180Z0665 Tool set APP 53-92
Press bush	1
Cone bushing extractor	1
M6 Allen key	1
M8 Allen key	1
M8 x 140 (30 mm thread) Unbraco	1
M8 x 70 (full thread) Unbraco	3
Valve plate fixation device	3
Tool bracket	1
Tool, washer	2
M16 pin	1
Nut M16 A4	4
ø17/30 x 3 washer	1
Screw M8 x 40 A4-80	1
Valve plate mount	1
24 mm, 1/2" socket	1
Flush valve tool	1
Torque wrench 60-340 Nm	1
Fork wrench 13 mm	2
Fork wrench 24 mm	1
Fork wrench 30 mm	1
Distance adapter	1
Screwdriver 5.5 x 1 mm	2
Screw (M8 x 16 mm)	2
Screw (M6 65 mm)	2
Shaft tool	1



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