

69. SE

SE1, SEV

50/60 Hz

SE1.50 from 2.2 kW, SE1.80, SE1.100

SEV.65 from 2.2 kW, SEV.80, SEV.100

Impeller-fixing parts

Pos.	Description	2-pole	2.2 - 4.0 kW	6.0 - 11 kW
		4-pole	1.1 - 2.2 kW	3.0 - 7.5 kW
		Kit No	96102365	96102366
9a	Key		1	1
66	Washer		1	1
157	Corrugated spring		1	1
188a	Screw		1	1

Single-channel impeller

Pos.	Description	Free passage	SE1.80	SE1.50	SE1.80	SE1.50	SE1.80	SE1.50	SE1.80
		2-pole		2.2		3.0		4.0	
		4-pole	1.5		2.2		3.0		5.5
		Cast iron	96091222	96091219	96091223	96091220	96091224	96091221	96091226
49	Impeller		1	1	1	1	1	1	1
49c	Wear ring for impeller		1	1	1	1	1	1	1

Pos.	Description	Free passage	SE1.100	SE1.80	SE1.100
		2-pole			
		4-pole	5.5	7.5	7.5
		Cast iron	96091229	96091227	96091230
49	Impeller		1	1	1
49c	Wear ring for impeller		1	1	1

SuperVortex impeller

Pos.	Description	Free passage	65	80	65	80	100	65.40/80.40	80.40
		2-pole	2.2		3.0	3.0		4.0	
		4-pole		2.2			3.0		4
		Cast iron	96886437	96812794	96886439	96886439	96886453	96886441	-
49	Impeller		1	1	1	1	1	1	1
		Stainless steel	-	97759200	-	-	97759206	-	97759201

Pos.	Description	Free passage	100	100	80	100	80	80	
		2-pole							
		4-pole	4.0	5.5	6.0	7.5	7.5	9.2	11
		Cast iron	96886456	96882380	96812823	96812827	96882475	96812831	96812654
		Stainless steel	97759207	97759208	97759202	97759203	97759209	97759204	97759205
49	Impeller	1	1	1	1	1	1		

S-tube impeller

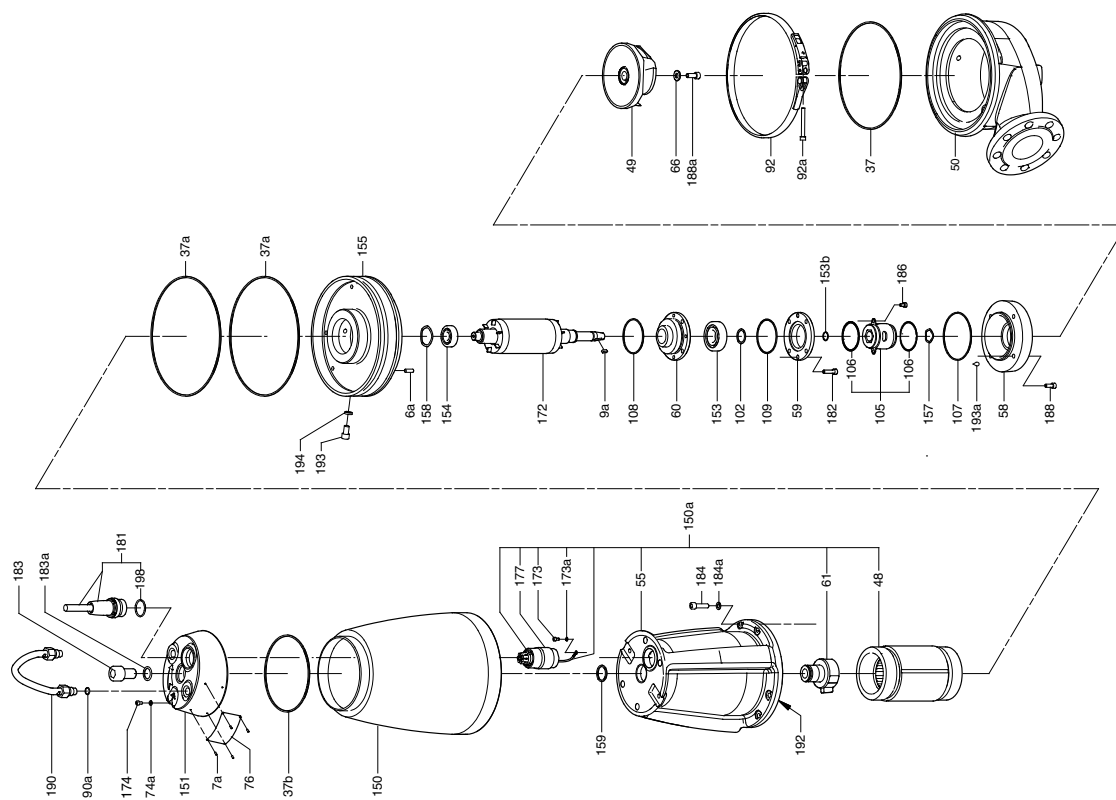
Pos.	Description	SE1.50	SE1.50	SE1.50	SE1.80	SE1.80	SE1.80	SE1.80
		2-pole	2.2	3.0	4.0			
		4-pole				1.5	2.2	3.0
			98166759	98166760	98166771	98166772	98166773	98166774
49	Impeller		1	1	1	1	1	1
49c	Wear ring for impeller		1	1	1	1	1	1

Pos.	Description	SE1.80	SE1.80	SE1.100	SE1.100	SE1.100
		2-pole				
		4-pole	5.5	7.5	4.0	5.5
			98166776	98166777	98166778	98166779
49	Impeller		1	1		1
49c	Wear ring for impeller		1	1		1

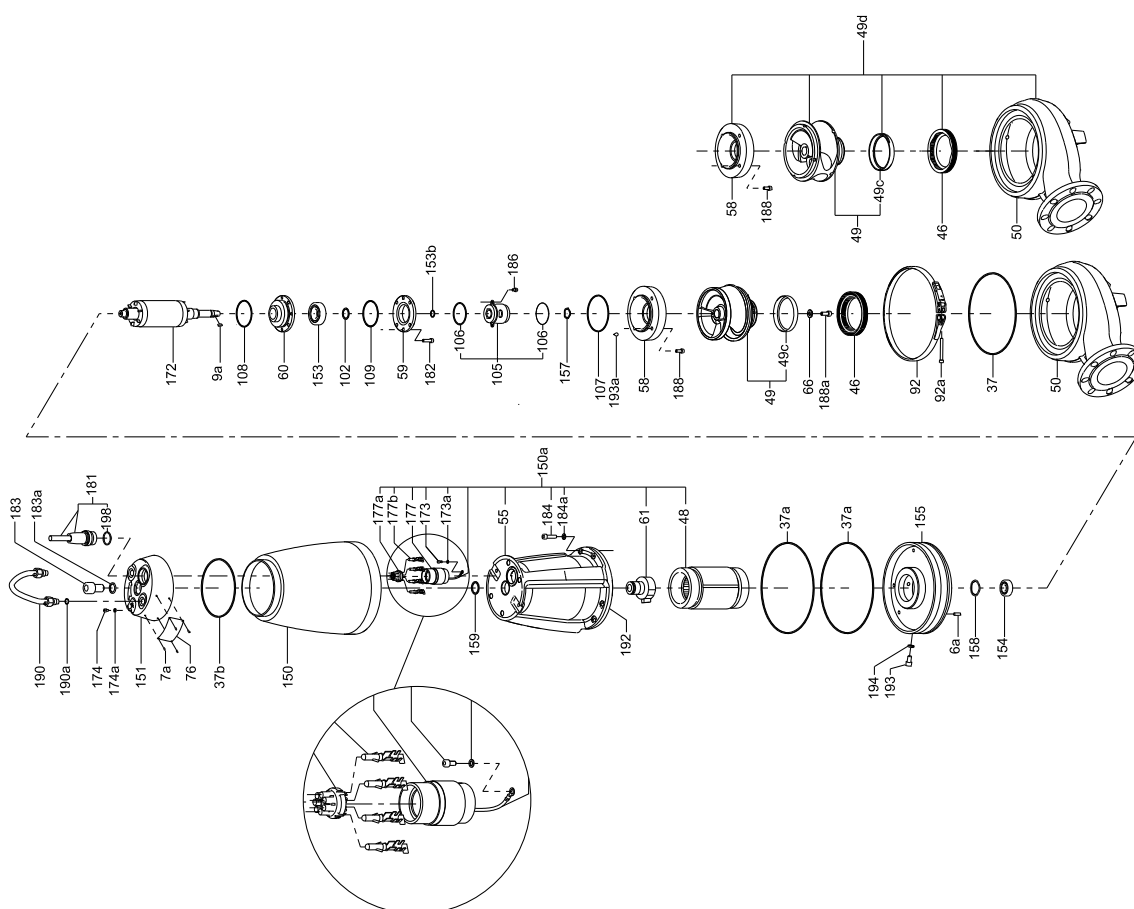
Tube impeller "Generation A"

Pos.	Description	SE1 100.75.4
		97783819
49	Impeller 50Hz SE1.100.75.4, tube catph.	1
49C	Wear ring for impeller SE1.100	1
58	Cover for oil chamber D, D235, catap	1

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Upgrade from single-channel impeller to S-tube impeller

Kit No	NBR	50.65.22.2	50.80.22.2	50.65.30.2	50.80.30.2	50.65.40.2	50.80.40.2	80.80.15.4	80.100.15.4	80.80.22.4
		98166781	98166782	98166783	98166784	98166785	98166786	98166787	98166788	98166789
		FKM	98173157	98173160	98173161	98173197	98173198	98173199	98173200	98173211
Pos.	Description	1	1	1	1	1	1			
46	Wear ring for impeller	1	1	1	1	1	1	1	1	1
58	Cover for oil chamber	1	1	1	1	1	1	1	1	1
49	Impeller	1	1	1	1	1	1	1	1	1
49c	Seal ring	1	1	1	1	1	1	1	1	1
50	Pump-housing	1	1	1	1	1	1	1	1	1
58a	Spring pin	4	4	4	4	4	4	1	1	1
187	Socket head cap screw							4	4	4

Kit No	NBR	80.100.22.4	80.80.30.4	80.100.30.4	80.80.40.4	80.100.40.4	80.80.55.4	80.100.55.4	80.80.75.4	80.100.75.4
		98166790	98166791	98166792	98166793	98166794	98166795	98166796	98166797	98166798
		FKM	98173214	98173215	98173216	98173217	98173218	98173219	98173221	98173222
Pos.	Description									
46	Wear ring for impeller	1	1	1	1	1	1	1	1	1
58	Cover for oil chamber	1	1	1	1	1	1	1	1	1
49	Impeller	1	1	1	1	1	1	1	1	1
49c	Seal ring	1	1	1	1	1	1	1	1	1
50	Pump-housing	1	1	1	1	1	1	1	1	1
58a	Spring pin	1	1	1	1	1	1	1	1	1
187	Socket head cap screw	4	4	4	4	4	4	4	4	4

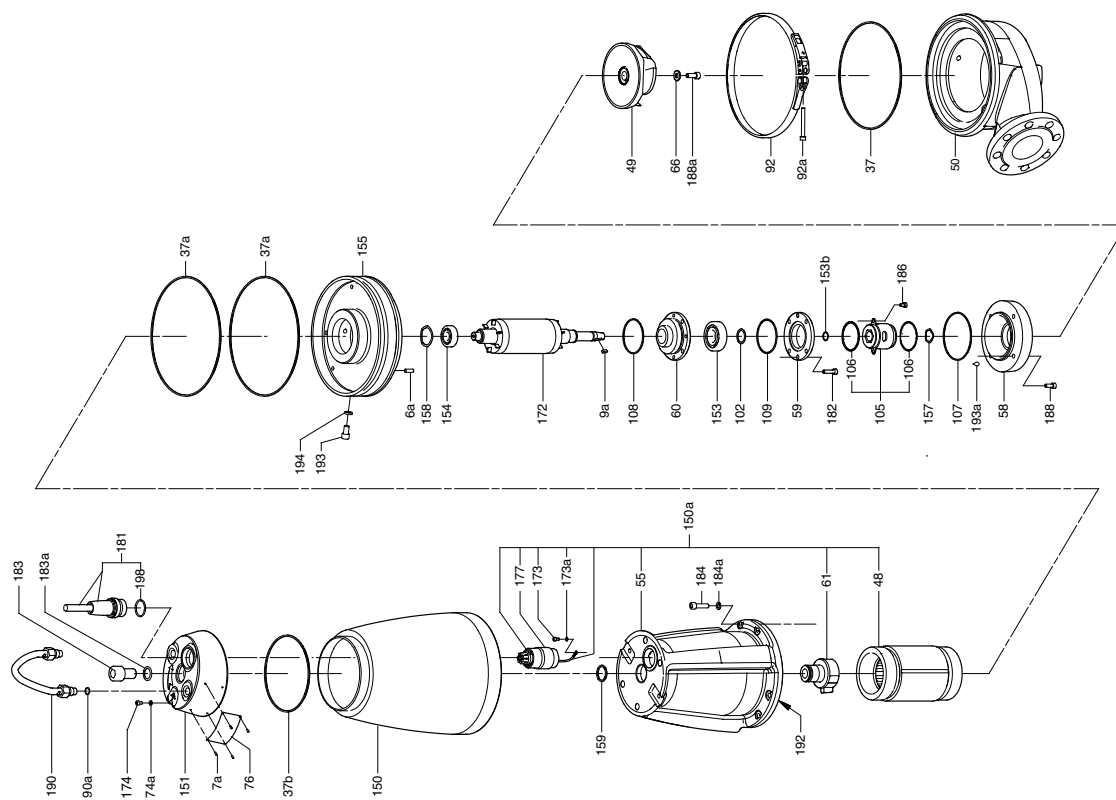
Kit No	NBR	100.100.40.4	100.150.40.4	100.100.55.4	100.150.55.4	100.100.75.4	100.150.75.4
		98166799	98166800	98166801	98166802	98166803	98166804
		FKM	98173225	98173226	98173227	98173228	98173230
Pos.	Description						
46	Wear ring for impeller	1	1	1	1	1	1
58	Cover for oil chamber	1	1	1	1	1	1
49	Impeller	1	1	1	1	1	1
49c	Seal ring	1	1	1	1	1	1
50	Pump-housing	1	1	1	1	1	1
58a	Spring pin	1	1	1	1	1	1
187	Socket head cap screw	4	4	4	4	4	4

Wear ring (SE1)

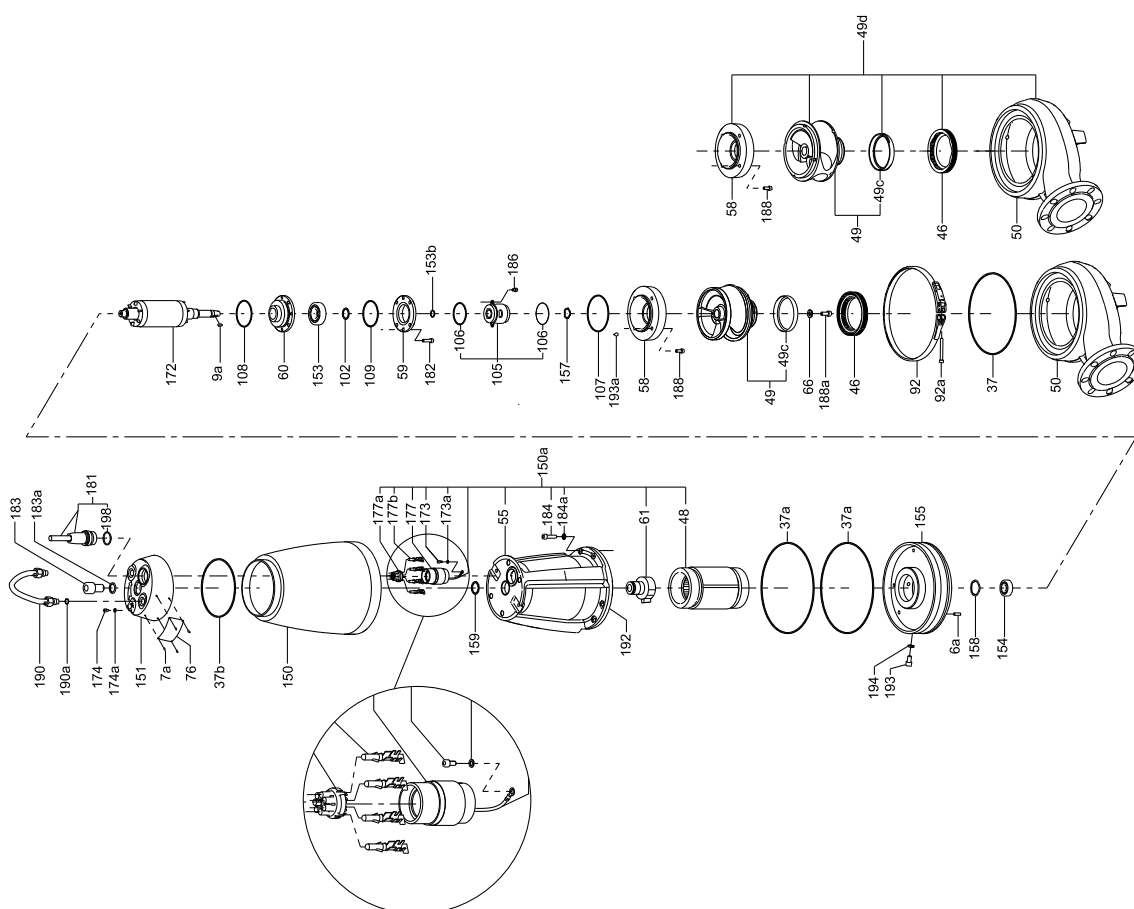
Pos.	Description	Free passage		Ø50				Ø80			
				Single Channel impeller		S-Tube impeller		Single Channel impeller		S-Tube impeller	
		Rubber type		NBR	FKM	NBR	FKM	NBR	FKM	NBR	FKM
		2 - pole				98166805		98172401			
		4 - pole		96102362	96690568			96102363	96690569	98166806	98172402
46	Seal ring			1	1			1	1	1	1
49c	Wear ring			1	1			1	1	1	1

Pos.	Description	Free passage		Ø100			
				Channel impeller		Tube impeller	
		Rubber type		NBR	FKM	NBR	FKM
		2 - pole					
		4 - pole		96102364	96690570	98166807	98172403
46	Seal ring			1	1	1	1
49c	Wear ring			1	1	1	1

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Clamp

Pos.	Description	2-pole	2.2-3.0 kW	4.0-7.5 kW	9.2-11 kW
		4-pole	1.1-2.2 kW	3.0-5.5 kW	7.5 kW
		Kit No	96592061	96592063	96592064
92	Clamp		1	1	1

Guide shoe

Pos.	Description	Outlet	DN 80	DN 80/100	DN 100	DN 100/150	DN 150
		Rubber type	NBR	NBR	NBR	NBR	NBR
		Kit No	96592058	96611611	96592056	96611613	96592060
-	Guide shoe		1	1	1	1	1
-	SmartSeal		1	1	1	1	1

Shaft seal

Pos.	Description	2-pole	2.2 - 4.0 kW	6.0 - 11 kW		
		4-pole	1.1 - 2.2 kW	3.0 - 7.5 kW		
		Rubber type	NBR	FKM	NBR	FKM
		Kit No	96102360	96635732	96102361	96635733
105	Shaft seal cartridge		1	1	1	1
107	O-ring	110 x 3	1	1	-	-
		134.5 x 3	1	1	1	1
		160 x 3	-	-	1	1
153b	O-ring	17.0 x 2.4	1	1	-	-
		28 x 2	-	-	1	1
157	Corrugated spring		1	1	1	1

SmartSeal for auto coupling

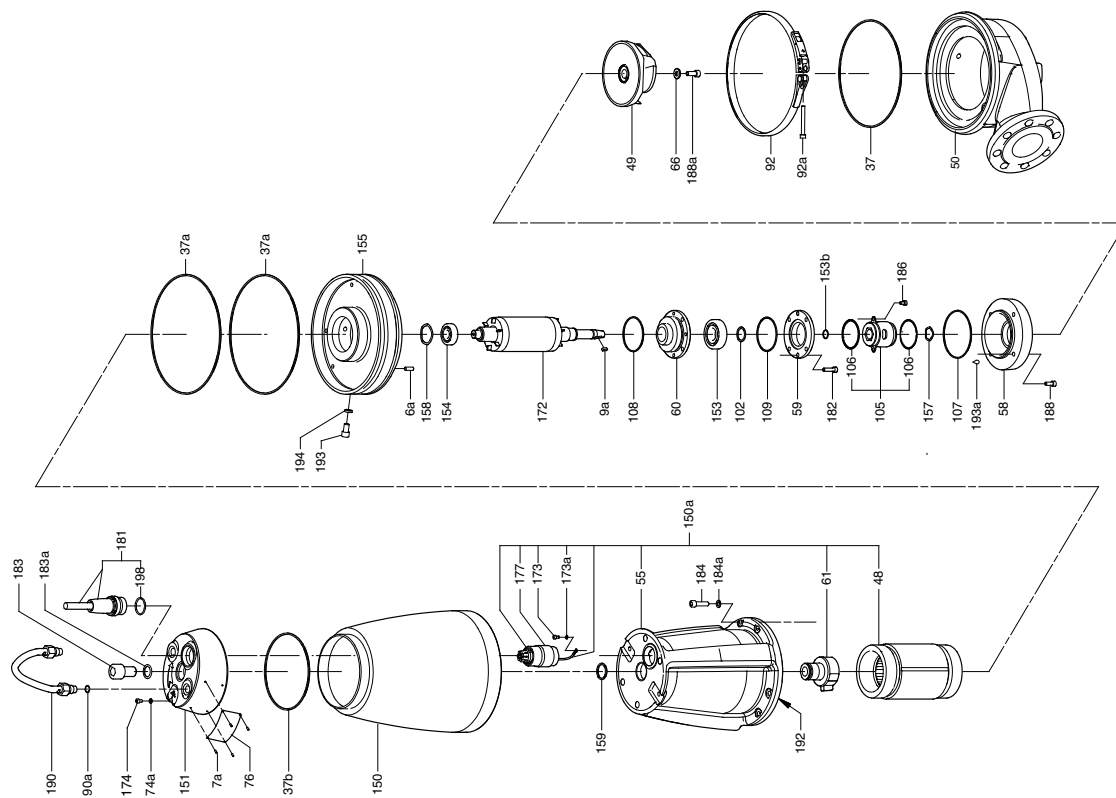
Description	Outlet	DN 65		DN 80/65		DN 80		DN 80/100	
	Rubber type	NBR	FKM	NBR	FKM	NBR	FKM	NBR	FKM
	Kit No	96575022	96659160	96575023	96659161	96575024	96659163	96575025	96659164
SmartSeal		1	1	1	1	1	1	1	1

Description	Outlet	DN 100		DN 100/150		DN 150	
	Rubber type	NBR	FKM	NBR	FKM	NBR	FKM
	Kit No	96575027	96659165	96575028	96659166	96575029	96659167
SmartSeal		1	1	1	1	1	1

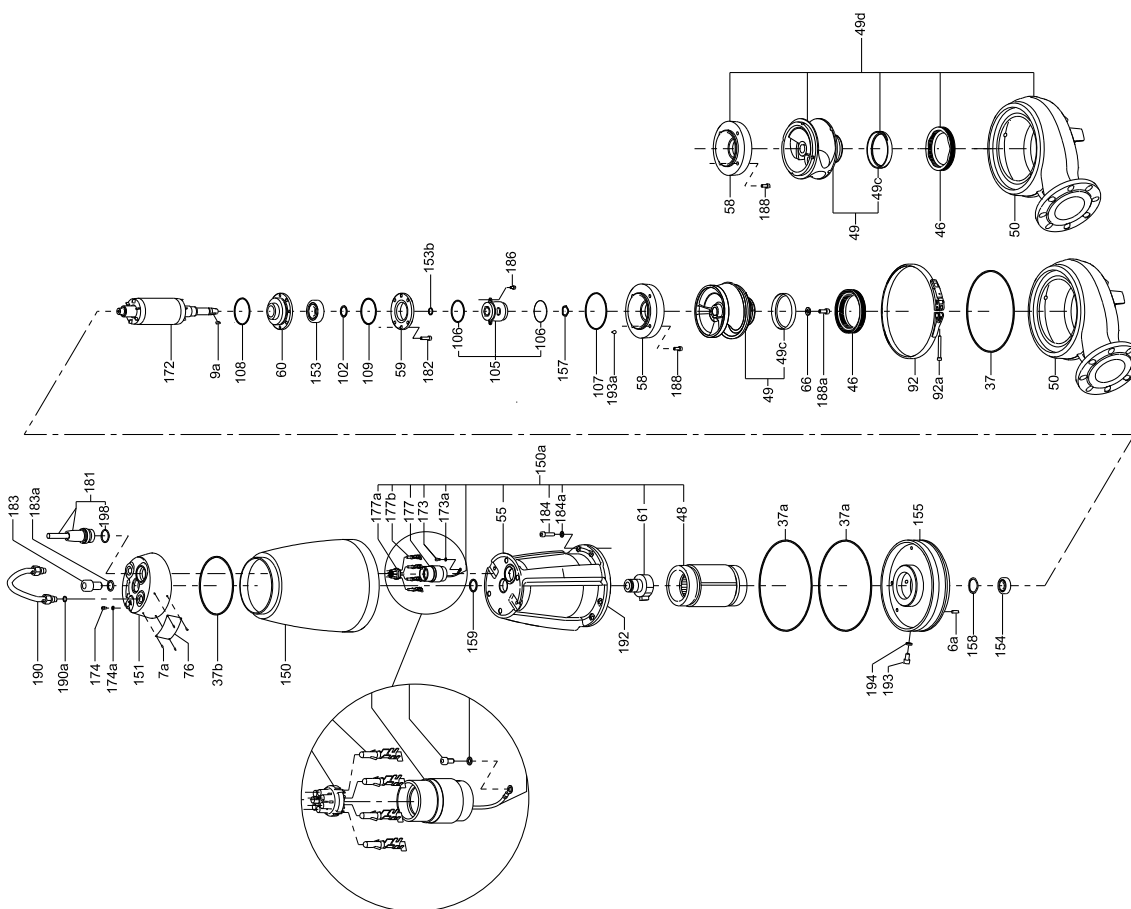
Upper guide rail holder

Pos.	Description	DN 65	DN 100/150
		96592037	96592038
-	Auto coupling	1	1

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Bearing

Pos.	Description	2-pole	2.2 - 3 kW	4 - 7.5 kW	9.2 - 11 kW
		4-pole	1.1 - 2.2 kW	3 - 5.5 kW	7.5 kW
		Kit No	96690703	96690704	96690705
153	Bearing		1	1	1
154	Bearing		1	1	1

Lifting bracket

Pos.	Description	2-pole	2.2 - 3 kW	6 - 7.5 kW	9.2 - 11 kW		
		4-pole	1.1 - 2.2 kW	3 - 5.5 kW	7.5 kW		
		Material	1.4301	1.4401	1.4301	1.4401	
		Kit No	96690430	96690431	96690432	96690434	96690436
190	Lifting bracket	1	1	1	1	1	1

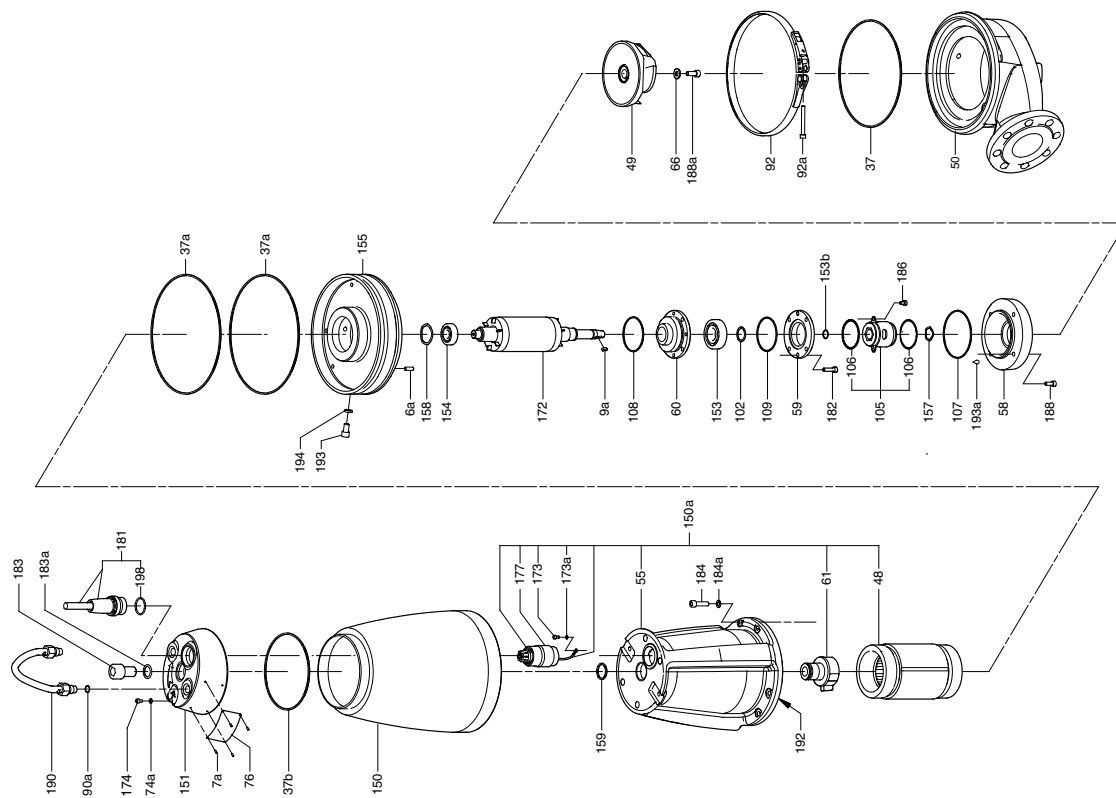
O-ring

Pos.	Description	2-pole	2.2 - 3 kW		4 kW		6 - 7.5 kW		9.2 - 11 kW	
		4-pole	1.1 - 2.2 kW		-		3 - 5.5 kW		7.5 kW	
		Rubber type	NBR	FKM	NBR	FKM	NBR	FKM	NBR	FKM
		Kit No	96102367	96788975	96102368	96788977	96102369	96788976	96102370	96788978
37	O-ring	250 x 4	1	1	-	-	-	-	-	-
		297 x 4	-	-	1	1	1	1	-	-
		330 x 4	-	-	-	-	-	-	1	1
37a	O-ring	285 x 4	2	2	-	-	-	-	-	-
		330 x 4	-	-	2	2	2	2	-	-
		346 x 4	-	-	-	-	-	-	2	2
37b	O-ring	185 x 4	1	1	-	-	-	-	-	-
		225 x 4	-	-	1	1	1	1	-	-
		250 x 4	-	-	-	-	-	-	1	1
102	O-ring	17.3 x 2.4	1	1	1	1	-	-	-	-
		28 x 2	-	-	-	-	1	1	1	1
106	O-ring	50 x 3	2	2	2	2	-	-	-	-
		62 x 3	-	-	-	-	2	2	2	2
107	O-ring	110 x 3	1	1	-	-	-	-	-	-
		134.5 x 3	-	-	1	1	1	1	-	-
		160 x 3	-	-	-	-	-	-	1	1
108	O-ring	80 x 3	1	1	-	-	-	-	-	-
		100 x 3	-	-	1	1	1	1	-	-
		120 x 3	-	-	-	-	-	-	1	1
109	O-ring	80 x 3	1	1	-	-	-	-	-	-
		100 x 3	-	-	1	1	1	1	1	1
159	O-ring	34 x 4	1	1	-	-	-	-	-	-
		41 x 4	-	-	1	1	1	1	1	1
183a	Washer	26/34 x 2	1	1	-	-	-	-	-	-
		33/38 x 2	-	-	1	1	1	1	1	1
194	Sealing washer	12.2/19 x 4.4	2	2	-	-	2	2	2	2
198	O-ring	34.2 x 3	1	1	-	-	-	-	-	-
		42.2 x 3	-	-	1	1	1	1	1	1

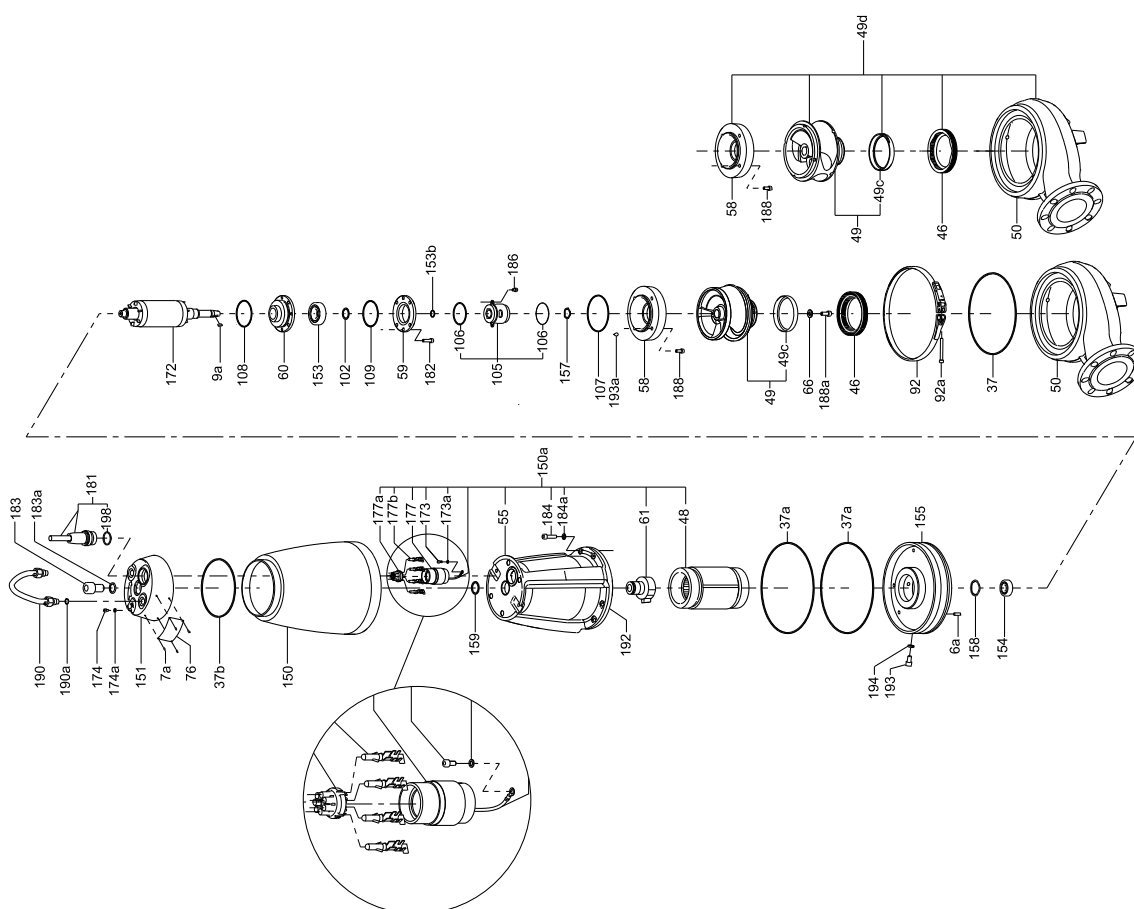
Top bolt

Pos.	Description	Size	M24	M30
		Kit No	96690572	96690573
183	Screw		1	1
183a	Washer		1	1

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Cable**2-pole: 2.2 - 3kW, 4-pole: 1.1 - 2.2kW**

Pos.	Length	10 m			15 m		
	Type	Standard	Ex	Screened Ex	Standard	Ex	Screened Ex
	Description						
181	Cable	96591649	96689976	96102486	96659473	96689977	96689980

Pos.	Length	20 m			25 m		
	Type	Standard	Ex	Screened Ex	Standard	Ex	Screened Ex
	Description						
181	Cable	96591660	96689978	96102488	96689953	96689979	96102489

2-pole: 4 - 7.5 kW, 9.2 - 11kW, 4-pole: 3 - 5.5 kW, 7.5kW

Pos.	Length	10 m						
	Type	Standard			Ex			Screened Ex D
	Description	7G 2.5 + 3 x 1 mm ²	4G 2.5 + 3 x 1 mm ² D	4G 2.5 + 3 x 1 mm ² Y	7G 2.5 + 3 x 1 mm ²	4G 2.5 + 3 x 1 mm ² D	4G 2.5 + 3 x 1 mm ² Y	Screened Ex Y 4 x 2.5 mm ² + 3 x 1 mm ²
181	Cable	96689954	96689958	96689972	96102482	96102498	96102494	96102490 96769058

Pos.	Length	15 m						
	Type	Standard			Ex			Screened Ex D
	Description	7G 2.5 + 3 x 1 mm ²	4G 2.5 + 3 x 1 mm ² D	4G 2.5 + 3 x 1 mm ² Y	7G 2.5 + 3 x 1 mm ²	4G 2.5 + 3 x 1 mm ² D	4G 2.5 + 3 x 1 mm ² Y	Screened Ex Y 4 x 2.5 mm ² + 3 x 1 mm ²
181	Cable	96689955	96689959	96689973	96102483	96102499	96102495	96102491 96769060

Pos.	Length	20 m						
	Type	Standard			Ex			Screened Ex D
	Description	7G 2.5 + 3 x 1 mm ²	4G 2.5 + 3 x 1 mm ² D	4G 2.5 + 3 x 1 mm ² Y	7G 2.5 + 3 x 1 mm ²	4G 2.5 + 3 x 1 mm ² D	4G 2.5 + 3 x 1 mm ² Y	Screened Ex Y 4 x 2.5 mm ² + 3 x 1 mm ²
181	Cable	96689956	96689970	96689974	96102484	96102500	96102496	96102492 96769061

Pos.	Length	25 m						
	Type	Standard			Ex			Screened Ex D
	Description	7G 2.5 + 3 x 1 mm ²	4G 2.5 + 3 x 1 mm ² D	4G 2.5 + 3 x 1 mm ² Y	7G 2.5 + 3 x 1 mm ²	4G 2.5 + 3 x 1 mm ² D	4G 2.5 + 3 x 1 mm ² Y	Screened Ex Y 4 x 2.5 mm ² + 3 x 1 mm ²
181	Cable	96689957	96689971	96689975	96102485	96102501	96102497	96102493 96769062

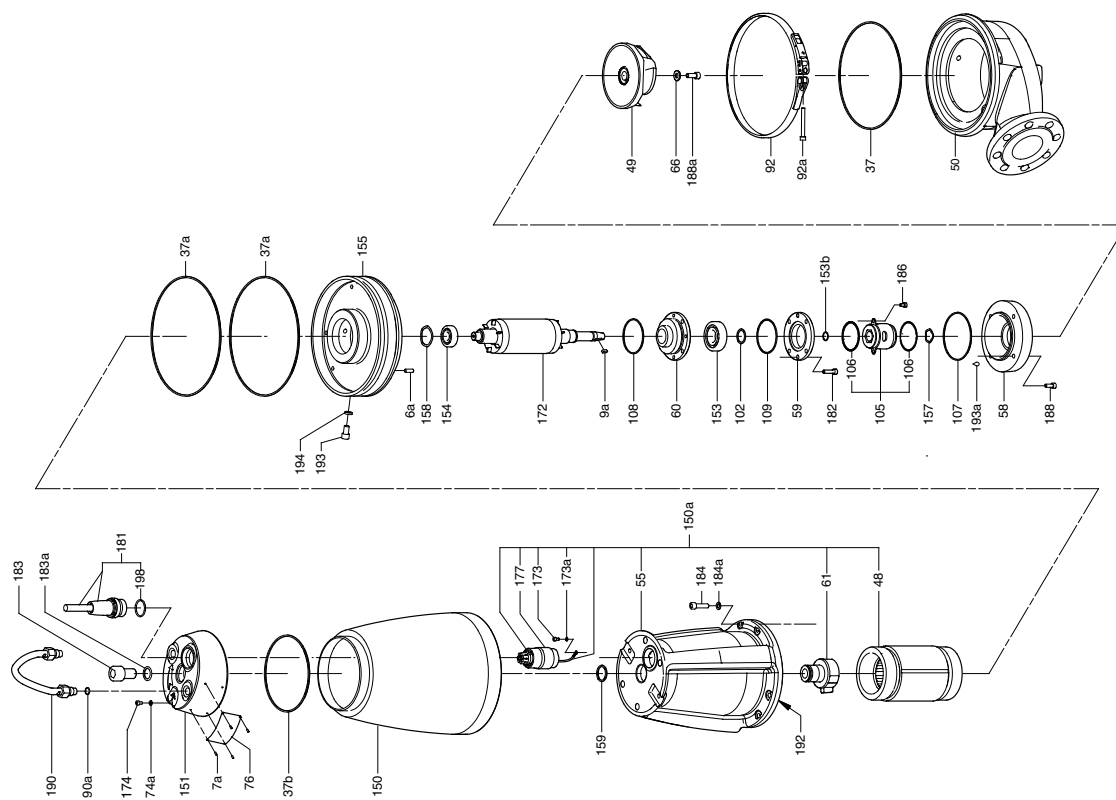
Pin housing

Pos.	Description	Kit No
177	Pin housing with 7 poles	96778908
	Pin housing with 10 poles	96778912

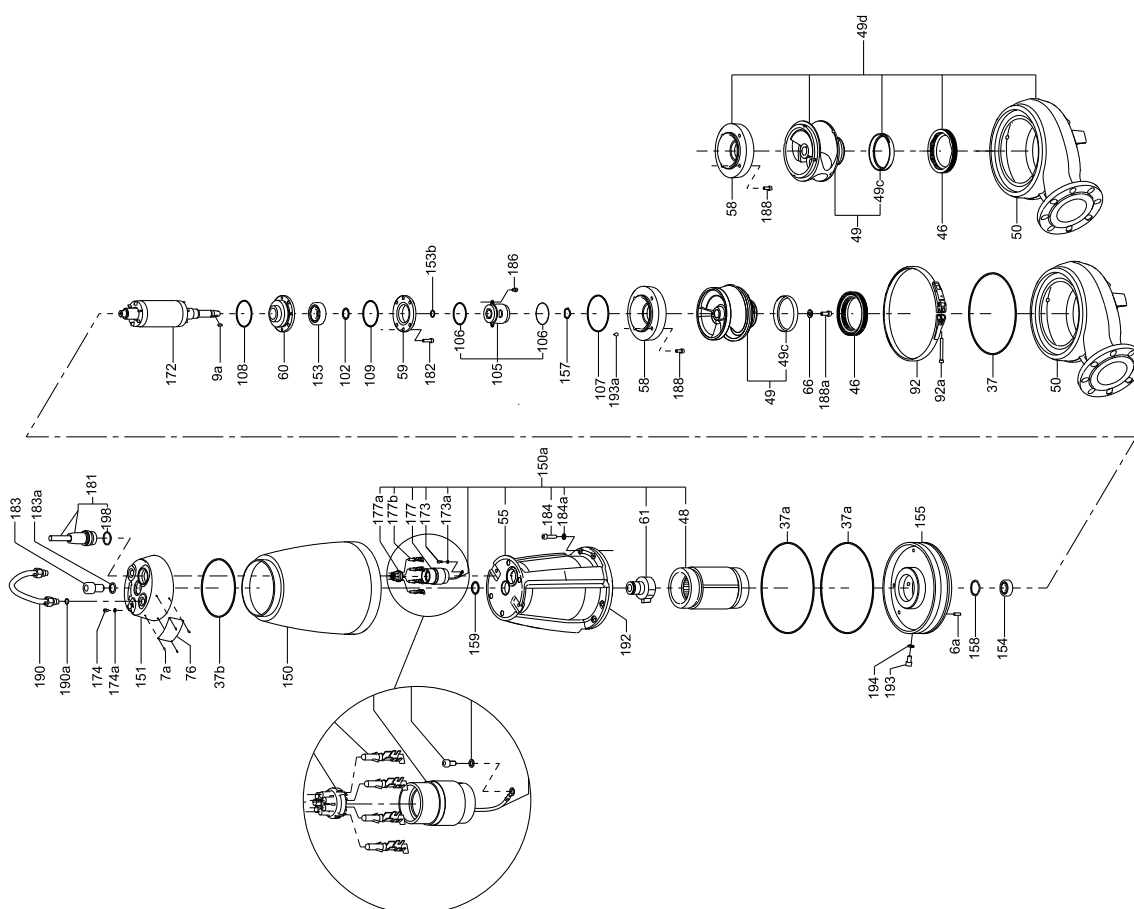
WIO sensor

Pos.	Description	2-pole	2.2 - 3 kW	6 - 7.5 kW	9.2 - 11 kW
		4-pole	1.1 - 2.2 kW	3 - 5.5 kW	7.5 kW
		Kit No	96617002	96617001	96616244
	Disc, spring		4	4	4
521	Rubber bush		1	1	1
	Sensor unit complete		1	1	1

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