

## 72. 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    | -        |
|      |             | Stainless steel | -        | 97759200 | -        | -        | 97759206 | -           | 97759201 |
| 49   | Impeller    |                 | 1        | 1        | 1        | 1        | 1        | 1           | 1        |

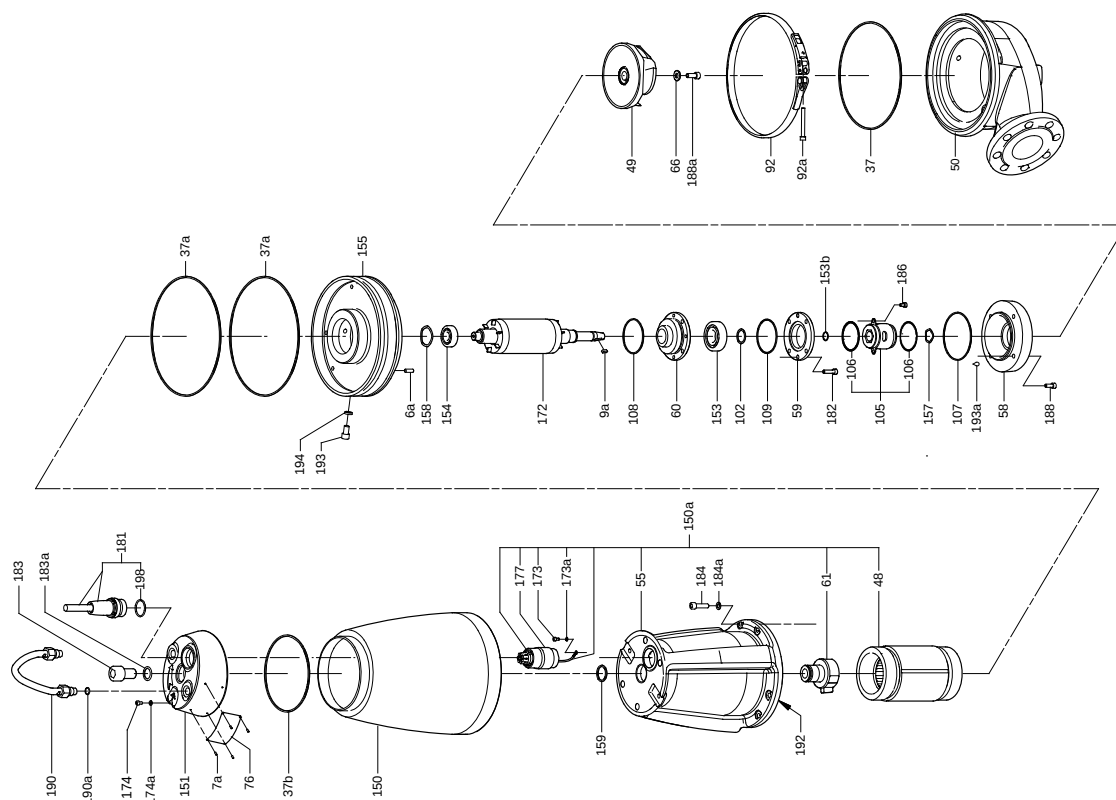
| Pos. | Description | Free passage    | 100      | 100      | 80       | 100      | 80       | 80       |
|------|-------------|-----------------|----------|----------|----------|----------|----------|----------|
|      |             | 2-pole          |          |          |          |          |  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

#### S-tube impeller

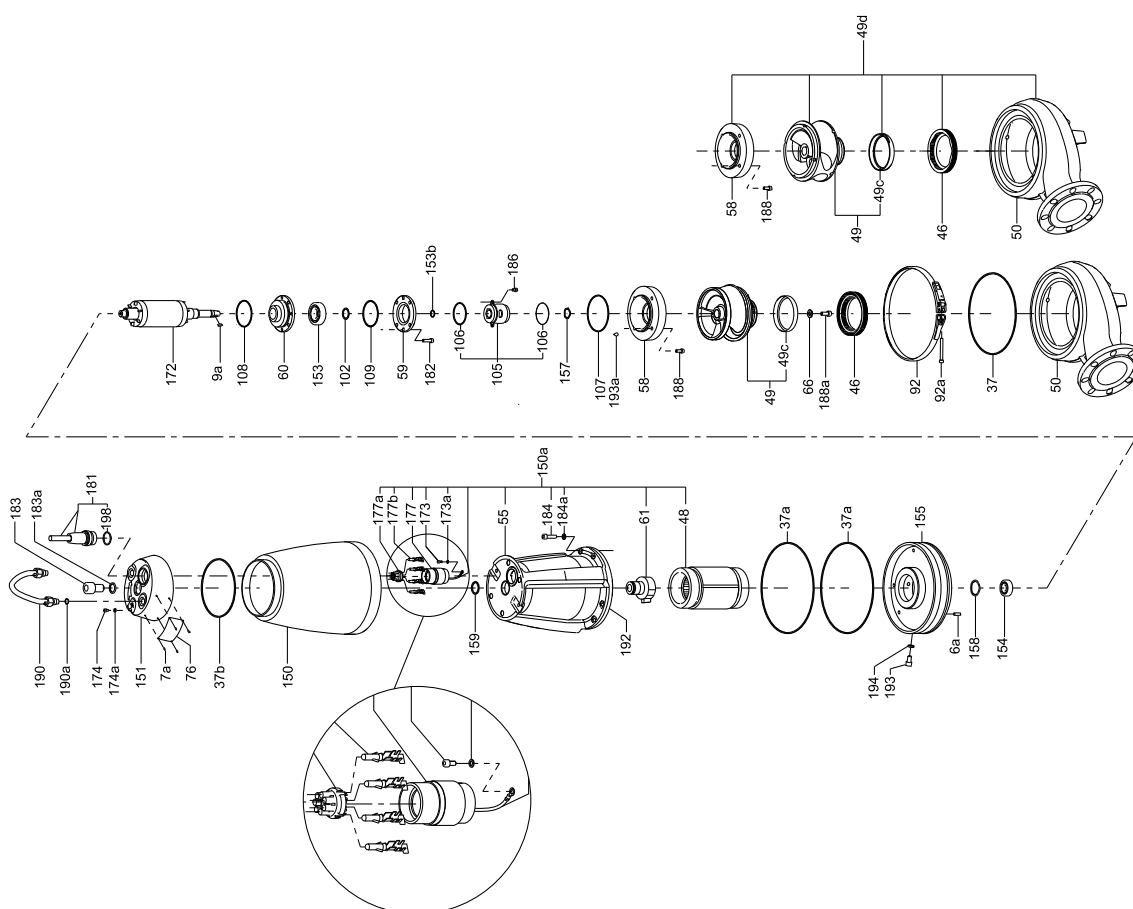
##### Tube impeller "Generation A"

| 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            |

## SEV



## SE1



TM02 8449 0204

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SE1, SEV SE

**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**

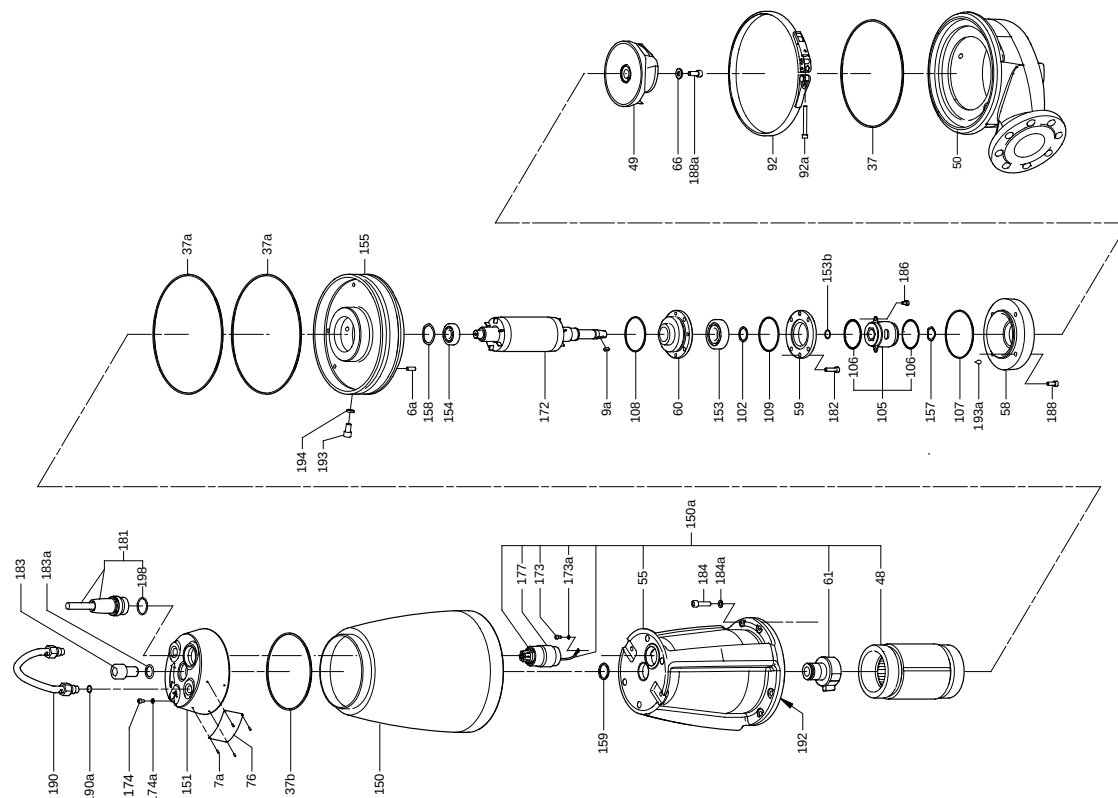
| Description | Outlet      | DN 65    |          | DN 80/65 |          | DN 80    |          | DN 80/100 |          |
|-------------|-------------|----------|----------|----------|----------|----------|----------|-----------|----------|
|             | Rubber type | NBR      | FKM      | NBR      | 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        |

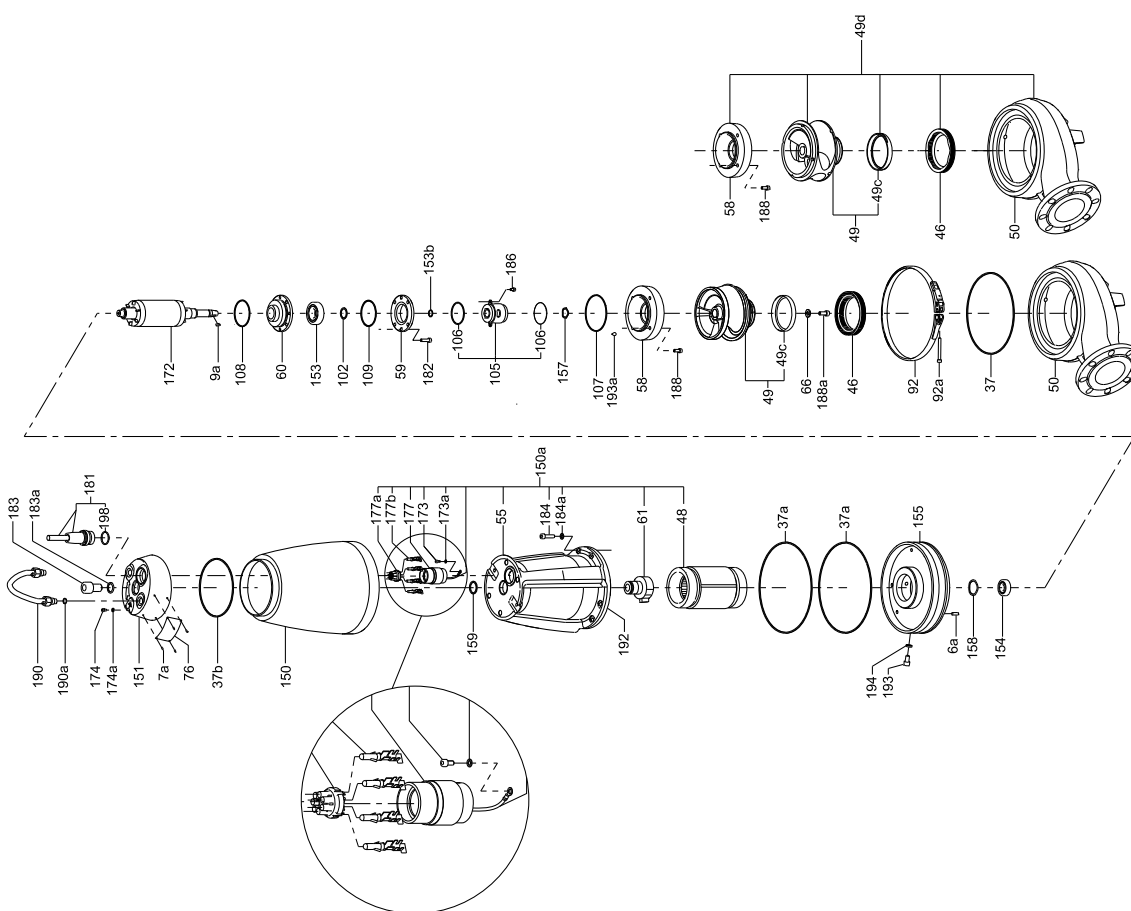
**Upper guide rail holder**

| Pos.        | Kit No                  | 96592037                 | 96829357                | 96592038                 | 96829358                |
|-------------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|
| Description |                         | DN 65/DN 80              | DN 65/DN 80             | DN 100/DN 150            | DN 100/DN 150           |
| -           | Upper guide rail holder | 1                        | 1                       | 1                        | 1                       |
|             |                         | Before 1044<br>cast iron | After 1044<br>st. steel | Before 1044<br>cast iron | After 1044<br>st. steel |

## SEV



## SE1



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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   | 1.4301      | 1.4401   |
|      |                 | Kit No   | 96690430     | 96690431 | 96690432   | 96690434 | 96690436    | 96690437 |
| 190  | Lifting bracket |          | 1            | 1        | 1          | 1        | 1           | 1        |

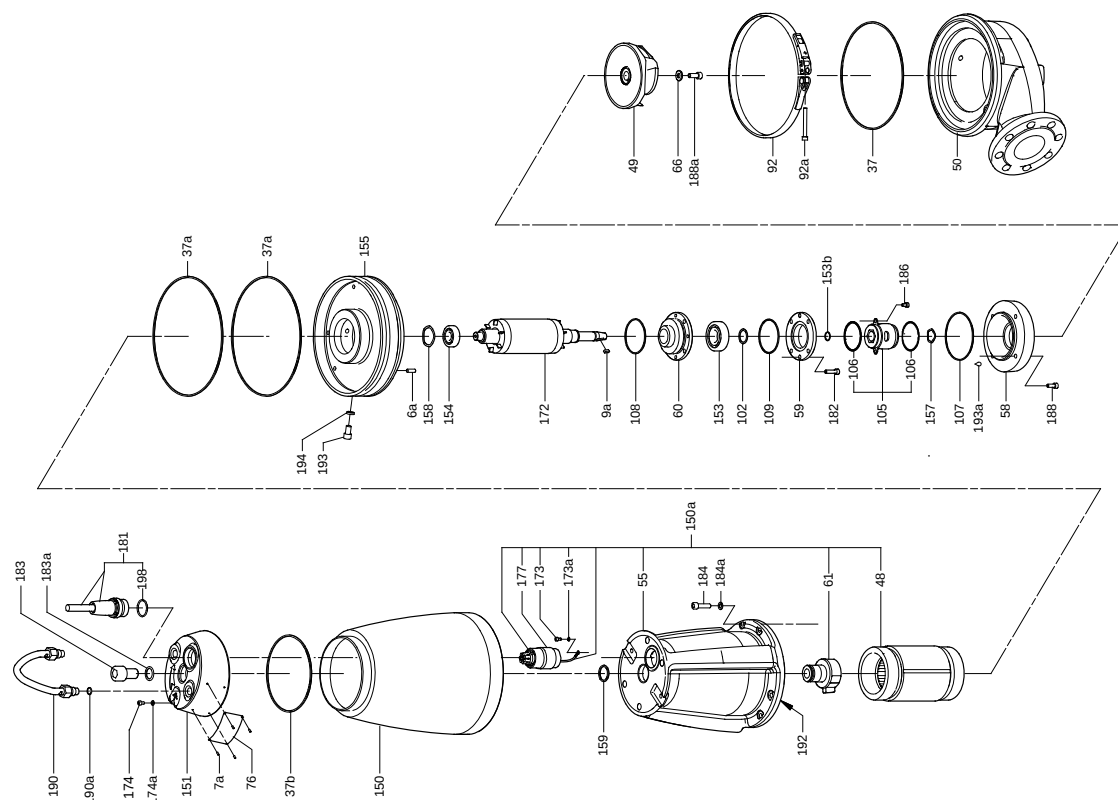
**O-ring**

| 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        |

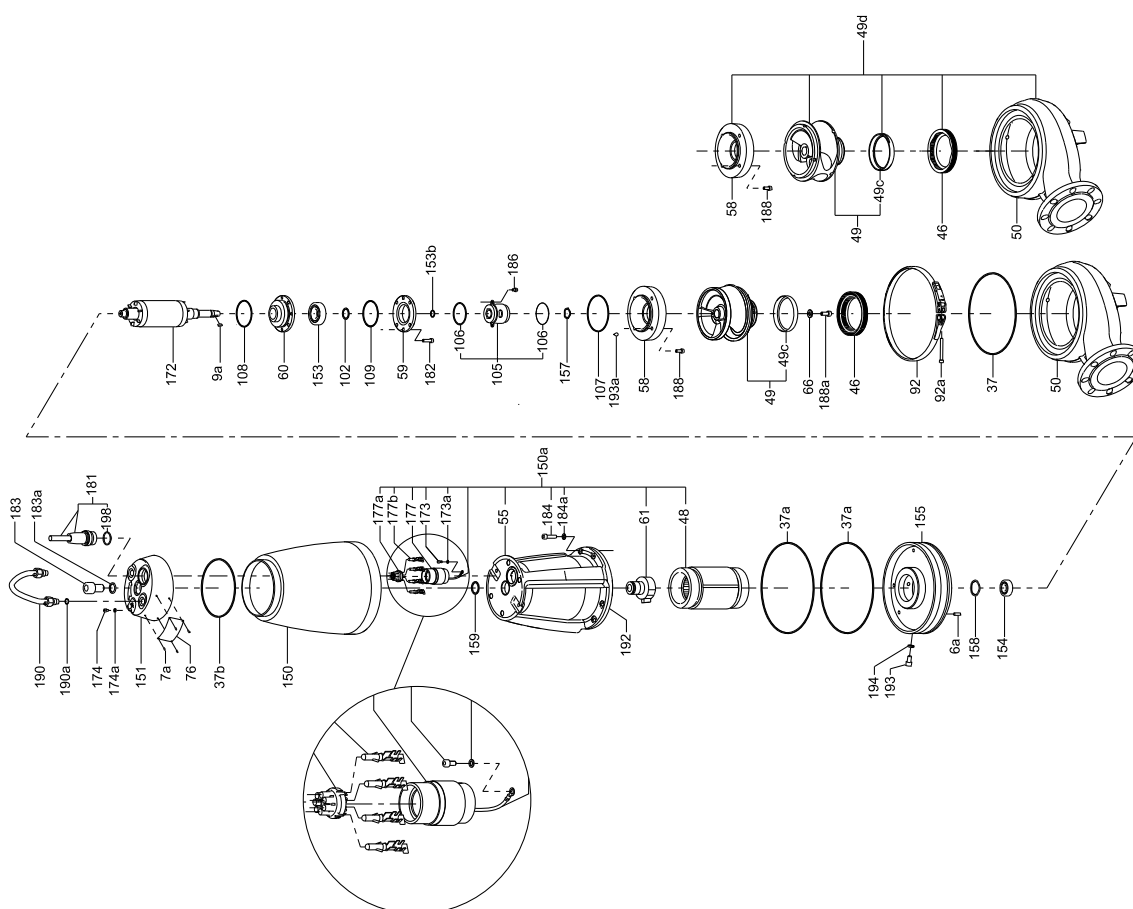
**Top bolt**

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

## SEV



## SE1



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SE1, SEV SE

**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                                |                                     |                                     |
|      | Description | 7G 2.5 +<br>3 x 1 mm <sup>2</sup> | 4G 2.5 +<br>3 x 1 mm <sup>2</sup> D | 4G 2.5 +<br>3 x 1 mm <sup>2</sup> Y | 7G 2.5 +<br>3 x 1 mm <sup>2</sup> | 4G 2.5 +<br>3 x 1 mm <sup>2</sup> D | 4G 2.5 +<br>3 x 1 mm <sup>2</sup> Y |
| 181  | Cable       | 96689954                          | 96689958                            | 96689972                            | 96102482                          | 96102498                            | 96102494                            |

| Pos. | Length      | 15 m                              |                                     |                                     |                                   |                                     |                                     |
|------|-------------|-----------------------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|
|      | Type        | Standard                          |                                     |                                     | Ex                                |                                     |                                     |
|      | Description | 7G 2.5 +<br>3 x 1 mm <sup>2</sup> | 4G 2.5 +<br>3 x 1 mm <sup>2</sup> D | 4G 2.5 +<br>3 x 1 mm <sup>2</sup> Y | 7G 2.5 +<br>3 x 1 mm <sup>2</sup> | 4G 2.5 +<br>3 x 1 mm <sup>2</sup> D | 4G 2.5 +<br>3 x 1 mm <sup>2</sup> Y |
| 181  | Cable       | 96689955                          | 96689959                            | 96689973                            | 96102483                          | 96102499                            | 96102495                            |

| Pos. | Length      | 20 m                              |                                     |                                     |                                   |                                     |                                     |
|------|-------------|-----------------------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|
|      | Type        | Standard                          |                                     |                                     | Ex                                |                                     |                                     |
|      | Description | 7G 2.5 +<br>3 x 1 mm <sup>2</sup> | 4G 2.5 +<br>3 x 1 mm <sup>2</sup> D | 4G 2.5 +<br>3 x 1 mm <sup>2</sup> Y | 7G 2.5 +<br>3 x 1 mm <sup>2</sup> | 4G 2.5 +<br>3 x 1 mm <sup>2</sup> D | 4G 2.5 +<br>3 x 1 mm <sup>2</sup> Y |
| 181  | Cable       | 96689956                          | 96689970                            | 96689974                            | 96102484                          | 96102500                            | 96102496                            |

| Pos. | Length      | 25 m                              |                                     |                                     |                                   |                                     |                                     |
|------|-------------|-----------------------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|
|      | Type        | Standard                          |                                     |                                     | Ex                                |                                     |                                     |
|      | Description | 7G 2.5 +<br>3 x 1 mm <sup>2</sup> | 4G 2.5 +<br>3 x 1 mm <sup>2</sup> D | 4G 2.5 +<br>3 x 1 mm <sup>2</sup> Y | 7G 2.5 +<br>3 x 1 mm <sup>2</sup> | 4G 2.5 +<br>3 x 1 mm <sup>2</sup> D | 4G 2.5 +<br>3 x 1 mm <sup>2</sup> Y |
| 181  | Cable       | 96689957                          | 96689971                            | 96689975                            | 96102485                          | 96102501                            | 96102497                            |

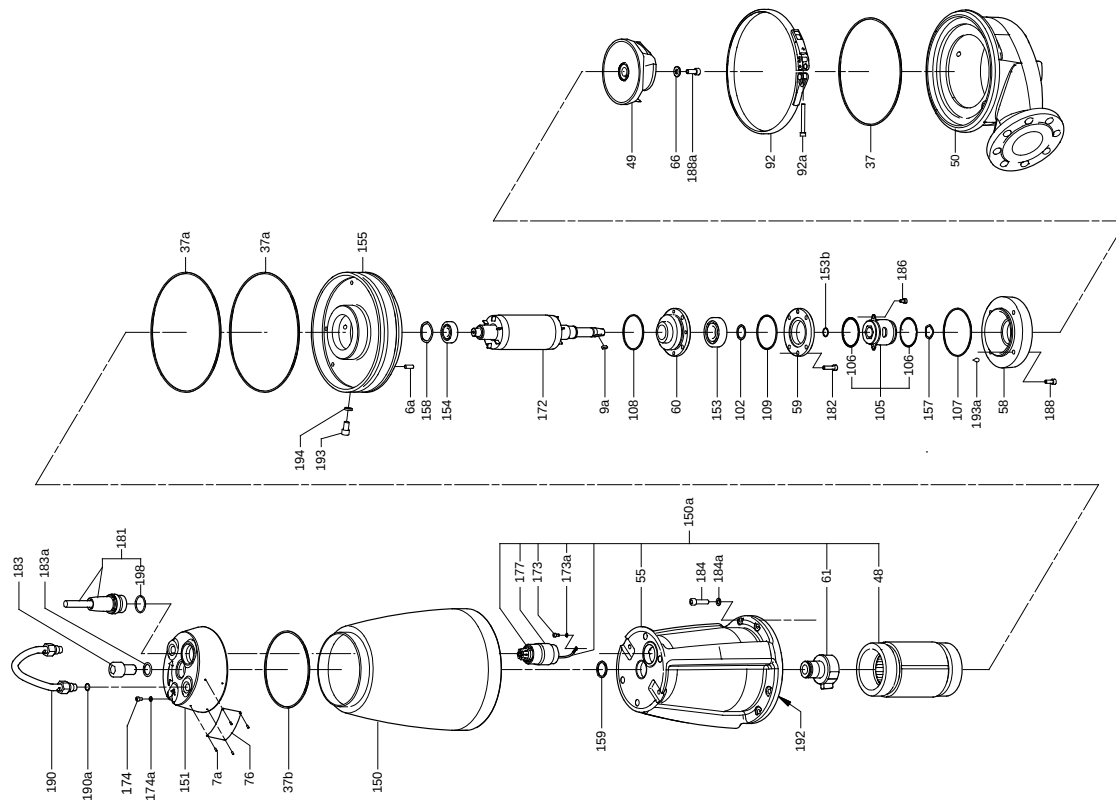
**Pin housing**

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

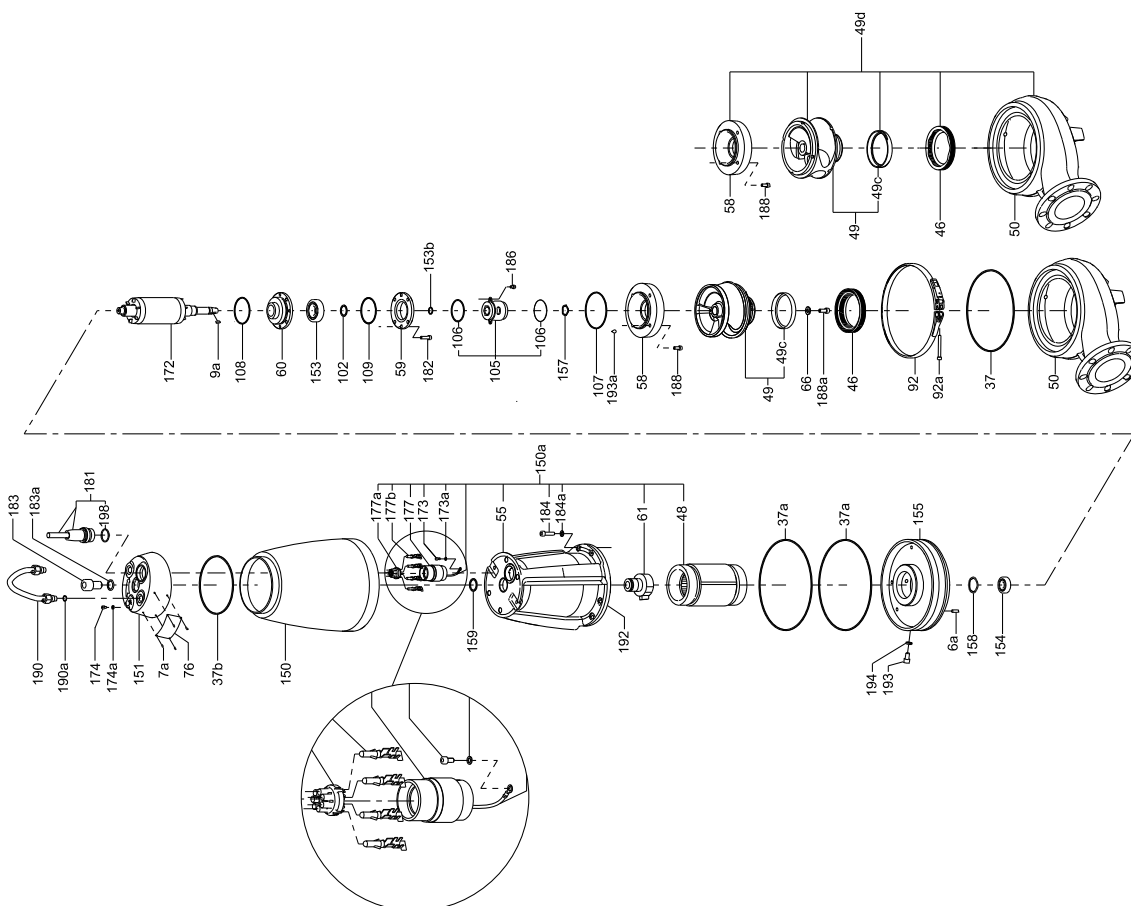
**WIO sensor**

| 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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TM02 8449 0204

TM05 3247 1012

SE1, SEV SE