

# Service Kit Catalogue



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# 1. CR Back to back

## Identification

For pumps with IEC standards

### Type key

Example: CRE 32-3-2 A-F-A-E-HQQE

| Code | Explanation                               |
|------|-------------------------------------------|
| CR   | Type range: CR, CRI, CRN                  |
| E    | Pump with integrated frequency converter  |
| 32   | Flow rate [m <sup>3</sup> /h]             |
| 3    | Number of impellers                       |
| 2    | Number of reduced-diameter impellers      |
| A    | Code for pump version                     |
| F    | Code for pipe connection                  |
| A    | Code for materials                        |
| E    | Code for rubber parts                     |
|      | Code for shaft seal:                      |
| H    | Shaft seal type designation               |
| Q    | Seal face material (rotating seal face)   |
| Q    | Seal face material (stationary seal face) |
| E    | Secondary seal material (rubber parts)    |

### Key to codes

| Code                   | Description                                      |
|------------------------|--------------------------------------------------|
| <b>Pump version</b>    |                                                  |
| A                      | Basic version                                    |
| B                      | Oversize motor                                   |
| C                      | CR compact                                       |
| D                      | Pump with pressure intensifier                   |
| E                      | Pump with certificate                            |
| F                      | Pump for high temperatures (with air-cooled top) |
| G                      | E-pump without operating panel                   |
| H                      | Horizontal version                               |
| I                      | Different pressure rating                        |
| J                      | E-pump with a different maximum speed            |
| K                      | Pump with low NPSH                               |
| L                      | Pump including Grundfos CUE and certificate      |
| M                      | Magnetic drive                                   |
| N                      | With sensor                                      |
| O                      | Cleaned and dried                                |
| P                      | Undersize motor                                  |
| Q                      | High-pressure pump with high-speed MGE motor     |
| R                      | Belt-driven pump                                 |
| S                      | High-pressure pump                               |
| T                      | Thrust-handling device                           |
| U                      | ATEX-approved pump                               |
| V                      | Cascade function                                 |
| W                      | Deep-well pump with ejector                      |
| X                      | Special version                                  |
| Y                      | Electropolished                                  |
| Z                      | Pumps with bearing flange                        |
| <b>Pipe connection</b> |                                                  |
| A                      | Oval flange                                      |

| Code | Description                        |
|------|------------------------------------|
| B    | NPT thread                         |
| CA   | FlexiClamp                         |
| CX   | TriClamp                           |
| F    | DIN flange                         |
| FC   | DIN 11853-2 flange (collar flange) |
| FE   | EN 1092-1, type E                  |
| G    | ANSI flange                        |
| J    | JIS flange                         |
| N    | Changed diameter of ports          |
| P    | PJE coupling (Victaulic type)      |
| X    | Special version                    |

|                  |                                                                                                                                                  |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Materials</b> |                                                                                                                                                  |
| A                | Basic version                                                                                                                                    |
| C                | Carbon-free pump                                                                                                                                 |
| D                | Carbon-graphite-filled PTFE (bearings)/tungsten carbide                                                                                          |
| E                | Carbon-free/tungsten carbide rotating bearing (only for Japan)                                                                                   |
| H                | Flanges and base plate EN 1.4408                                                                                                                 |
| K                | Bronze (bearings)/tungsten carbide                                                                                                               |
| L                | Motor stool, base plate and flanges EN 1.4408                                                                                                    |
| M                | Motor stool, base plate, coupling and flanges EN 1.4408 and coupling guards in cobber<br>Bolts, nuts and spacing pipes EN 1.4401 or higher grade |
| N                | Flanges EN 1.4408                                                                                                                                |
| P                | PEEK neck ring                                                                                                                                   |
| Q                | Silicon carbide/silicon carbide bearing in pump and silicon carbide/silicon carbide seal faces in thrust-handling device                         |
| R                | Silicon carbide/silicon carbide bearing                                                                                                          |
| S                | PTFE neck rings                                                                                                                                  |
| T                | Base plate EN 1.4408                                                                                                                             |
| U                | Silicon carbide/silicon carbide bearing in pump and silicon carbide/tungsten carbide seal faces in thrust-handling device                        |
| W                | Tungsten carbide/tungsten carbide                                                                                                                |
| X                | Special version                                                                                                                                  |

|                             |                |
|-----------------------------|----------------|
| <b>Rubber parts in pump</b> |                |
| E                           | EPDM           |
| F                           | FXM (Fluoraz®) |
| K                           | FFKM (Kalrez®) |
| N                           | CR (Neoprene)  |
| V                           | FKM (Viton®)   |

|                                    |                                     |
|------------------------------------|-------------------------------------|
| <b>Shaft seal type designation</b> |                                     |
| A                                  | O-ring seal with fixed driver       |
| H                                  | Balanced cartridge seal with O-ring |
| O                                  | Double seal, back-to-back           |
| P                                  | Double seal, tandem                 |
| X                                  | Special version                     |

|                                                               |                                     |
|---------------------------------------------------------------|-------------------------------------|
| <b>Seal face material (rotating and stationary seal face)</b> |                                     |
| B                                                             | Carbon, synthetic resin-impregnated |
| U                                                             | Cemented tungsten carbide           |
| Q                                                             | Silicon carbide                     |
| X                                                             | Other ceramics                      |

|                                               |      |
|-----------------------------------------------|------|
| <b>Secondary seal material (rubber parts)</b> |      |
| E                                             | EPDM |

| Code | Description    |
|------|----------------|
| F    | FXM (Fluoraz®) |
| K    | FFKM (Kalrez®) |
| V    | FKM (Viton®)   |



## For pumps with NEMA standards

### Type key

#### Example

**CRE 32-4-2 A-G-A-E-HQQE-N-C-B**

| Code | Explanation                                 |
|------|---------------------------------------------|
| CR   | Type range: CR, CRI, CRN                    |
| E    | Pump with integrated frequency converter    |
| 32   | Flow rate [gpm (m <sup>3</sup> /h)]         |
| 4    | Number of impellers                         |
| 2    | Number of reduced-diameter impellers        |
| A    | Code for pump version                       |
| G    | Code for pipe connection                    |
| A    | Code for materials                          |
| E    | Code for rubber parts                       |
|      | Code for shaft seal:                        |
| H    | • Shaft seal type designation               |
| Q    | • Seal face material (rotating seal face)   |
| Q    | • Seal face material (stationary seal face) |
| E    | • Secondary seal material (rubber parts)    |
| N    | Code for motor: P2 [hp (kW)]                |
| C    | Code for motor: phase and voltage [V]       |
| B    | Code for motor: speed variant [rpm]         |

### Key to codes

| Code                   | Description                                      |
|------------------------|--------------------------------------------------|
| <b>Pump version</b>    |                                                  |
| A                      | Basic version                                    |
| B                      | Oversize motor                                   |
| C                      | CR compact                                       |
| D                      | Pump with pressure intensifier                   |
| E                      | Pump with certificate                            |
| F                      | Pump for high temperatures (with air-cooled top) |
| G                      | E-pump without operating panel                   |
| H                      | Horizontal version                               |
| I                      | Different pressure rating                        |
| J                      | E-pump with a different maximum speed            |
| K                      | Pump with low NPSH                               |
| L                      | Pump including Grundfos CUE and certificate      |
| M                      | Magnetic drive                                   |
| N                      | With sensor                                      |
| O                      | Cleaned and dried                                |
| P                      | Undersize motor                                  |
| Q                      | High-pressure pump with high-speed MLE motor     |
| R                      | Belt-driven pump                                 |
| S                      | High-pressure pump                               |
| T                      | Thrust handling device                           |
| U                      | ATEX-approved pump                               |
| V                      | Cascade function                                 |
| W                      | Deep-well pump with ejector                      |
| X                      | Special version                                  |
| 6                      | Special version with NSF 61/372 approval         |
| Y                      | Electropolished                                  |
| Z                      | Pumps with bearing flange                        |
| <b>Pipe connection</b> |                                                  |

| Code | Description                        |
|------|------------------------------------|
| A    | Oval flange                        |
| B    | NPT thread                         |
| CA   | FlexiClamp                         |
| CX   | TriClamp                           |
| F    | DIN flange                         |
| FC   | DIN 11853-2 flange (collar flange) |
| FE   | EN 1092-1, type E                  |
| G    | ANSI flange                        |
| J    | JIS flange                         |
| N    | Changed diameter of ports          |
| P    | PJE coupling (Victaulic type)      |
| X    | Special version                    |

|                  |                                                                                                                                                |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Materials</b> |                                                                                                                                                |
| A                | Basic version                                                                                                                                  |
| C                | Carbon-free pump                                                                                                                               |
| D                | Carbon-graphite-filled PTFE (bearings)/tungsten carbide                                                                                        |
| E                | Pickled and passivated (Only Japan)                                                                                                            |
| H                | Flanges and base plate EN 1.4408                                                                                                               |
| K                | Bronze (bearings)/tungsten carbide                                                                                                             |
| L                | Motor stool, base plate and flanges EN 1.4408                                                                                                  |
| M                | Motor stool, base plate, coupling and flanges EN 1.4408 and coupling guards in cobber. Bolts, nuts and spacing pipes EN 1.4401 or higher grade |
| N                | Flanges EN 1.4408                                                                                                                              |
| P                | PEEK neck ring                                                                                                                                 |
| Q                | Silicon carbide/silicon carbide bearing in pump and silicon carbide/silicon carbide seal faces in thrust handling device                       |
| R                | Silicon carbide/silicon carbide bearing                                                                                                        |
| S                | PTFE neck rings                                                                                                                                |
| T                | Base plate EN 1.4408                                                                                                                           |
| U                | Silicon carbide/silicon carbide bearing in pump and silicon carbide/tungsten carbide seal faces in thrust handling device                      |
| W                | Tungsten carbide/tungsten carbide                                                                                                              |
| X                | Special version                                                                                                                                |

|                             |                |
|-----------------------------|----------------|
| <b>Rubber parts in pump</b> |                |
| E                           | EPDM           |
| F                           | FXM (Fluoraz®) |
| K                           | FFKM (Kalrez®) |
| N                           | CR (Neoprene)  |
| V                           | FKM (Viton®)   |

|                                    |                                     |
|------------------------------------|-------------------------------------|
| <b>Shaft seal type designation</b> |                                     |
| A                                  | O-ring seal with fixed driver       |
| H                                  | Balanced cartridge seal with O-ring |
| O                                  | Double seal, back-to-back           |
| P                                  | Double seal, tandem                 |
| X                                  | Special version                     |

|                                                               |                                     |
|---------------------------------------------------------------|-------------------------------------|
| <b>Seal face material (rotating and stationary seal face)</b> |                                     |
| B                                                             | Carbon, synthetic resin-impregnated |
| U                                                             | Cemented tungsten carbide           |
| Q                                                             | Silicon carbide                     |
| X                                                             | Other ceramics                      |

|                                               |      |
|-----------------------------------------------|------|
| <b>Secondary seal material (rubber parts)</b> |      |
| E                                             | EPDM |

| Code | Description    |
|------|----------------|
| F    | FXM (Fluoraz®) |
| K    | FFKM (Kalrez®) |
| V    | FKM (Viton®)   |

## Codes for motor

| Code                         | Description   |
|------------------------------|---------------|
| <b>P2 [hp (kW)]</b>          |               |
| C                            | 0.33 (0.25)   |
| D                            | 0.5 (0.37)    |
| E                            | 0.75 (0.55)   |
| F                            | 1 (0.75)      |
| G                            | 1.5 (1.1)     |
| H                            | 2 (1.5)       |
| I                            | 3 (2.2)       |
| K                            | 5 (4)         |
| L                            | 7.5 (5.5)     |
| M                            | 10 (7.5)      |
| N                            | 15 (11)       |
| O                            | 20 (15)       |
| P                            | 25 (18.5)     |
| Q                            | 30 (22)       |
| R                            | 40 (30)       |
| S                            | 50 (37)       |
| T                            | 60 (45)       |
| U                            | 75 (55)       |
| V                            | 100 (75)      |
| W                            | 120 (90)      |
| 1                            | 150 (110)     |
| 2                            | 175 (132)     |
| 3                            | 215 (160)     |
| 4                            | 270 (200)     |
| 5                            | 335 (250)     |
| <b>Phase and voltage (V)</b> |               |
| A                            | 1 × 200-240 V |
| B                            | 3 × 200-240 V |
| C                            | 3 × 440-480 V |
| D                            | 3 × 380-500 V |
| X                            | Not defined   |
| <b>Speed variant (rpm)</b>   |               |
| A                            | 1450-2000     |
| B                            | 2900-4000     |
| C                            | 4000-5900     |
| 2                            | 2-pole        |
| 4                            | 4-pole        |

## CR, CRI, CRN 1, 3, 5

### Kit, chamber stack

#### Chamber stack for CR, CRI 1, 1S

| Pump type     | SiC-SiC bearing |
|---------------|-----------------|
|               | Kit No.         |
| CR, CRI 1-10  | 99620085        |
| CR, CRI 1-11  | 99620174        |
| CR, CRI 1-12  | 98431804        |
| CR, CRI 1-13  | 96690072        |
| CR, CRI 1-15  | 98867528        |
| CR, CRI 1-17  | 97747430        |
| CR, CRI 1-19  | 99620176        |
| CR, CRI 1-2   | 98402798        |
| CR, CRI 1-21  | 96928305        |
| CR, CRI 1-23  | 98346475        |
| CR, CRI 1-25  | 96648336        |
| CR, CRI 1-27  | 99620184        |
| CR, CRI 1-3   | 99554458        |
| CR, CRI 1-30  | 99620187        |
| CR, CRI 1-33  | 99620084        |
| CR, CRI 1-36  | 99620083        |
| CR, CRI 1-4   | 99420032        |
| CR, CRI 1-5   | 99350838        |
| CR, CRI 1-6   | 98460103        |
| CR, CRI 1-7   | 99619369        |
| CR, CRI 1-8   | 99619523        |
| CR, CRI 1-9   | 98329788        |
| CR, CRI 1S-10 | 99953597        |
| CR, CRI 1S-11 | 99953600        |
| CR, CRI 1S-12 | 99953601        |
| CR, CRI 1S-13 | 99302272        |
| CR, CRI 1S-15 | 99953602        |
| CR, CRI 1S-17 | 99953613        |
| CR, CRI 1S-19 | 99953616        |
| CR, CRI 1S-21 | 99953617        |
| CR, CRI 1S-23 | 99953619        |
| CR, CRI 1S-25 | 99953636        |
| CR, CRI 1S-27 | 99953639        |
| CR, CRI 1S-3  | 99953415        |
| CR, CRI 1S-30 | 99953640        |
| CR, CRI 1S-33 | 99953642        |
| CR, CRI 1S-36 | 99953653        |
| CR, CRI 1S-4  | 99953417        |
| CR, CRI 1S-5  | 99953531        |
| CR, CRI 1S-6  | 99953561        |
| CR, CRI 1S-7  | 99953575        |
| CR, CRI 1S-8  | 99953594        |
| CR, CRI 1S-9  | 99953596        |

#### Chamber stack for CRN 1, 1S

| Pump type | SiC-SiC bearing |
|-----------|-----------------|
|           | Kit No.         |
| CRN 1-10  | 99953376        |
| CRN 1-11  | 99953377        |
| CRN 1-12  | 98976511        |
| CRN 1-13  | 99953378        |

| Pump type                  | SiC-SiC bearing |
|----------------------------|-----------------|
|                            | Kit No.         |
| CRN 1-15                   | 99953379        |
| CRN 1-17                   | 99586739        |
| CRN 1-19                   | 99953380        |
| CRN 1-19, electropolished  | 96884984        |
| CRN 1-2                    | 98150378        |
| CRN 1-21                   | 99953381        |
| CRN 1-25                   | 98862754        |
| CRN 1-27                   | 99953403        |
| CRN 1-29                   | 99953406        |
| CRN 1-3                    | 96648427        |
| CRN 1-3, cleaned and dried | 97796711        |
| CRN 1-3, electropolished   | 97774475        |
| CRN 1-30                   | 99953407        |
| CRN 1-31                   | 99953409        |
| CRN 1-33                   | 99915788        |
| CRN 1-36                   | 99311671        |
| CRN 1-4                    | 98489222        |
| CRN 1-5                    | 98434734        |
| CRN 1-6                    | 99357396        |
| CRN 1-7                    | 99953374        |
| CRN 1-8                    | 99953375        |
| CRN 1-9                    | 99048443        |
| CRN 1S-10                  | 99956999        |
| CRN 1S-11                  | 97665544        |
| CRN 1S-13                  | 99957000        |
| CRN 1S-15                  | 99957002        |
| CRN 1S-17                  | 99957003        |
| CRN 1S-19                  | 99957004        |
| CRN 1S-2                   | 98953914        |
| CRN 1S-21                  | 99957005        |
| CRN 1S-23                  | 99957006        |
| CRN 1S-25                  | 99957007        |
| CRN 1S-27                  | 99957008        |
| CRN 1S-3                   | 99956995        |
| CRN 1S-30                  | 99957009        |
| CRN 1S-33                  | 99957021        |
| CRN 1S-36                  | 99957029        |
| CRN 1S-4                   | 97632889        |
| CRN 1S-6                   | 99259037        |
| CRN 1S-7                   | 96865299        |
| CRN 1S-8                   | 99956996        |
| CRN 1S-9                   | 99956998        |

#### Chamber stack for CR, CRI 3

| Pump type              | SiC-SiC bearing |
|------------------------|-----------------|
|                        | Kit No.         |
| CR, CRI 3-10           | 98334528        |
| CR, CRI 3-10, low NPSH | 99986484        |
| CR, CRI 3-11           | 99391332        |
| CR, CRI 3-11, low NPSH | 99507082        |
| CR, CRI 3-12           | 99619585        |
| CR, CRI 3-13           | 98328758        |
| CR, CRI 3-13, low NPSH | 99986489        |
| CR, CRI 3-15           | 99023104        |

| Pump type              | SiC-SiC bearing |
|------------------------|-----------------|
|                        | Kit No.         |
| CR, CRI 3-15, low NPSH | 99986491        |
| CR, CRI 3-17           | 98735384        |
| CR, CRI 3-17, low NPSH | 99986492        |
| CR, CRI 3-19           | 99619623        |
| CR, CRI 3-19, low NPSH | 97738742        |
| CR, CRI 3-19, low NPSH | 98939467        |
| CR, CRI 3-2            | 98316774        |
| CR, CRI 3-2, low NPSH  | 99986457        |
| CR, CRI 3-21           | 99619626        |
| CR, CRI 3-21, low NPSH | 98895268        |
| CR, CRI 3-23           | 99619651        |
| CR, CRI 3-23, low NPSH | 99986503        |
| CR, CRI 3-25           | 99187060        |
| CR, CRI 3-25, low NPSH | 99986505        |
| CR, CRI 3-27           | 99619655        |
| CR, CRI 3-27, low NPSH | 99986512        |
| CR, CRI 3-3            | 98062808        |
| CR, CRI 3-3, low NPSH  | 99986458        |
| CR, CRI 3-31           | 99619660        |
| CR, CRI 3-31, low NPSH | 99986523        |
| CR, CRI 3-33           | 99619662        |
| CR, CRI 3-33, low NPSH | 99986526        |
| CR, CRI 3-36           | 99357621        |
| CR, CRI 3-36, low NPSH | 99986528        |
| CR, CRI 3-4            | 99619530        |
| CR, CRI 3-4, low NPSH  | 98583386        |
| CR, CRI 3-5            | 98103962        |
| CR, CRI 3-5, low NPSH  | 99566592        |
| CR, CRI 3-6            | 98383467        |
| CR, CRI 3-6, low NPSH  | 99986459        |
| CR, CRI 3-7            | 99619507        |
| CR, CRI 3-7, low NPSH  | 99986462        |
| CR, CRI 3-8            | 99619532        |
| CR, CRI 3-8, low NPSH  | 99986479        |
| CR, CRI 3-9            | 96809730        |
| CR, CRI 3-9, low NPSH  | 98142054        |

### Chamber stack for CRN 3

| Pump type                 | SiC-SiC bearing |
|---------------------------|-----------------|
|                           | Kit No.         |
| CRN 3-10                  | 99475453        |
| CRN 3-10, electropolished | 98439898        |
| CRN 3-10, low NPSH        | 99986228        |
| CRN 3-11                  | 96742972        |
| CRN 3-11, low NPSH        | 92656980        |
| CRN 3-12                  | 98098632        |
| CRN 3-12, low NPSH        | 99986230        |
| CRN 3-13                  | 98518937        |
| CRN 3-13, low NPSH        | 99829399        |
| CRN 3-15                  | 96838518        |
| CRN 3-15, low NPSH        | 99986232        |
| CRN 3-17                  | 96771244        |
| CRN 3-17, low NPSH        | 99986263        |
| CRN 3-19                  | 96926733        |

| Pump type                 | SiC-SiC bearing |
|---------------------------|-----------------|
|                           | Kit No.         |
| CRN 3-19, electropolished | 97991816        |
| CRN 3-19, low NPSH        | 99448974        |
| CRN 3-2                   | 98362176        |
| CRN 3-2, low NPSH         | 99986220        |
| CRN 3-21                  | 98542406        |
| CRN 3-21, low NPSH        | 98619921        |
| CRN 3-23                  | 99350810        |
| CRN 3-23, low NPSH        | 97756130        |
| CRN 3-25                  | 98046591        |
| CRN 3-25, low NPSH        | 99986264        |
| CRN 3-27                  | 98898758        |
| CRN 3-27, electropolished | 98341685        |
| CRN 3-27, low NPSH        | 99986266        |
| CRN 3-29                  | 92506637        |
| CRN 3-29, low NPSH        | 96902187        |
| CRN 3-3                   | 97695869        |
| CRN 3-3, low NPSH         | 99252262        |
| CRN 3-31                  | 99620086        |
| CRN 3-31, reinforced      | 93120409        |
| CRN 3-31, low NPSH        | 99986267        |
| CRN 3-33                  | 99620161        |
| CRN 3-33, low NPSH        | 99986269        |
| CRN 3-36                  | 98821359        |
| CRN 3-36, low NPSH        | 99986271        |
| CRN 3-4                   | 96878316        |
| CRN 3-4, low NPSH         | 99986221        |
| CRN 3-5                   | 99619684        |
| CRN 3-5, low NPSH         | 97890966        |
| CRN 3-6                   | 96648594        |
| CRN 3-6, low NPSH         | 99986223        |
| CRN 3-7                   | 98464664        |
| CRN 3-7, electropolished  | 97897462        |
| CRN 3-7, low NPSH         | 99986225        |
| CRN 3-8                   | 97578428        |
| CRN 3-8, low NPSH         | 99986227        |
| CRN 3-9                   | 97700848        |
| CRN 3-9, low NPSH         | 98780478        |

### Chamber stack for CR, CRI 5

| Pump type              | SiC-SiC bearing |
|------------------------|-----------------|
|                        | Kit No.         |
| CR, CRI 5-10           | 98568502        |
| CR, CRI 5-11           | 99953618        |
| CR, CRI 5-12           | 99321193        |
| CR, CRI 5-13           | 99028462        |
| CR, CRI 5-13, low NPSH | 91134175        |
| CR, CRI 5-14           | 99217355        |
| CR, CRI 5-14, low NPSH | 96658332        |
| CR, CRI 5-15           | 99235376        |
| CR, CRI 5-15, low NPSH | 98424872        |
| CR, CRI 5-16, low NPSH | 98861318        |
| CR, CRI 5-18           | 99611466        |
| CR, CRI 5-20           | 98055516        |
| CR, CRI 5-20, low NPSH | 98670352        |

| Pump type              | SiC-SiC bearing          |
|------------------------|--------------------------|
|                        | Kit No.                  |
| CR, CRI 5-22           | <a href="#">97506706</a> |
| CR, CRI 5-22, low NPSH | <a href="#">98787325</a> |
| CR, CRI 5-24           | <a href="#">97712121</a> |
| CR, CRI 5-24, low NPSH | <a href="#">98592371</a> |
| CR, CRI 5-26           | <a href="#">96697546</a> |
| CR, CRI 5-26, low NPSH | <a href="#">98749695</a> |
| CR, CRI 5-29           | <a href="#">97751756</a> |
| CR, CRI 5-3            | <a href="#">98103930</a> |
| CR, CRI 5-32           | <a href="#">96624917</a> |
| CR, CRI 5-36           | <a href="#">99953622</a> |
| CR, CRI 5-36, low NPSH | <a href="#">96589245</a> |
| CR, CRI 5-4            | <a href="#">98993634</a> |
| CR, CRI 5-4, low NPSH  | <a href="#">96625419</a> |
| CR, CRI 5-5            | <a href="#">98097119</a> |
| CR, CRI 5-5, low NPSH  | <a href="#">99062383</a> |
| CR, CRI 5-6            | <a href="#">96836218</a> |
| CR, CRI 5-6, low NPSH  | <a href="#">99040551</a> |
| CR, CRI 5-7            | <a href="#">98602835</a> |
| CR, CRI 5-7, low NPSH  | <a href="#">99864816</a> |
| CR, CRI 5-8            | <a href="#">99953615</a> |
| CR, CRI 5-8, low NPSH  | <a href="#">99421677</a> |
| CR, CRI 5-9            | <a href="#">99054093</a> |
| CR, CRI 5-9, low NPSH  | <a href="#">97821973</a> |

#### Chamber stack for CRN 5

| Pump type          | SiC-SiC bearing          |
|--------------------|--------------------------|
|                    | Kit No.                  |
| CRN 5-10           | <a href="#">98894209</a> |
| CRN 5-10, low NPSH | <a href="#">96574506</a> |
| CRN 5-11           | <a href="#">98134787</a> |
| CRN 5-11, low NPSH | <a href="#">98556550</a> |
| CRN 5-12           | <a href="#">96827986</a> |
| CRN 5-12, low NPSH | <a href="#">99997524</a> |
| CRN 5-13, low NPSH | <a href="#">99997533</a> |
| CRN 5-14           | <a href="#">98677075</a> |
| CRN 5-14, low NPSH | <a href="#">96571901</a> |
| CRN 5-15           | <a href="#">98812462</a> |
| CRN 5-15, low NPSH | <a href="#">99997534</a> |
| CRN 5-16           | <a href="#">98136854</a> |
| CRN 5-18           | <a href="#">98277047</a> |
| CRN 5-18, low NPSH | <a href="#">99997536</a> |

| Pump type                                      | SiC-SiC bearing          |
|------------------------------------------------|--------------------------|
|                                                | Kit No.                  |
| CRN 5-2                                        | <a href="#">96625416</a> |
| CRN 5-20                                       | <a href="#">96740258</a> |
| CRN 5-22                                       | <a href="#">98113729</a> |
| CRN 5-22, electropolished                      | <a href="#">98145770</a> |
| CRN 5-22, low NPSH                             | <a href="#">99188415</a> |
| CRN 5-24                                       | <a href="#">98716669</a> |
| CRN 5-24, low NPSH                             | <a href="#">98506237</a> |
| CRN 5-26                                       | <a href="#">96625954</a> |
| CRN 5-26, low NPSH                             | <a href="#">96653668</a> |
| CRN 5-29                                       | <a href="#">96770514</a> |
| CRN 5-29, low NPSH                             | <a href="#">97697491</a> |
| CRN 5-3                                        | <a href="#">96648429</a> |
| CRN 5-3, low NPSH                              | <a href="#">99997506</a> |
| CRN 5-32                                       | <a href="#">98500422</a> |
| CRN 5-32, low NPSH                             | <a href="#">98529437</a> |
| CRN 5-36                                       | <a href="#">96461550</a> |
| CRN 5-36, low NPSH                             | <a href="#">98362166</a> |
| CRN 5-4                                        | <a href="#">96659667</a> |
| CRN 5-4, cleaned and dried                     | <a href="#">99471907</a> |
| CRN 5-4, low NPSH                              | <a href="#">96575097</a> |
| CRN 5-5                                        | <a href="#">96744699</a> |
| CRN 5-5, low NPSH                              | <a href="#">99997507</a> |
| CRN 5-6                                        | <a href="#">97844489</a> |
| CRN 5-6, cleaned and dried                     | <a href="#">98540211</a> |
| CRN 5-6, cleaned and dried/<br>electropolished | <a href="#">98491106</a> |
| CRN 5-6, low NPSH                              | <a href="#">99997509</a> |
| CRN 5-7                                        | <a href="#">96638889</a> |
| CRN 5-7, low NPSH                              | <a href="#">99997512</a> |
| CRN 5-8                                        | <a href="#">96958366</a> |
| CRN 5-8, low NPSH                              | <a href="#">97723611</a> |
| CRN 5-9                                        | <a href="#">99224864</a> |
| CRN 5-9, low NPSH                              | <a href="#">98813302</a> |

#### Kit, O-ring

| Pos. | Material | FFKM                     | FXM                      |
|------|----------|--------------------------|--------------------------|
|      | Kit No.  | <a href="#">96533328</a> | <a href="#">96463944</a> |
| 37   | O-ring   | 2                        | 2                        |
| 38   | O-ring   | 3                        | 3                        |
| 109  | O-ring   | 1                        | 1                        |

**Kit, shaft seal**

| Pos. | Type                      | AQQE     | AQQV     | OUUV     | OQQE     | OUUE     | OQQV     |
|------|---------------------------|----------|----------|----------|----------|----------|----------|
|      | Kit No.                   | 96533360 | 96533361 | 98591346 | 98591349 | 98591361 | 96989183 |
| 26c  | Washer                    | -        | -        | 1        | 1        | 1        | -        |
| 37   | O-ring                    | 3        | 3        | -        | -        | -        | -        |
| 38   | O-ring                    | 7        | 7        | -        | -        | -        | -        |
| 102  | O-ring                    | 1        | 1        | 1        | 1        | 1        | -        |
| 103  | Seal ring, stationary     | -        | -        | 1        | 1        | 1        | -        |
| 105  | Shaft seal                | 1        | 1        | 1        | 1        | 1        | 1        |
| 105  | Seal drive, lower         | 1        | 1        | 1        | 1        | 1        | -        |
| 105  | Compression spring        | 1        | 1        | 1        | 1        | 1        | -        |
| 105  | Seal ring, rotating       | 1        | 1        | 1        | 1        | 1        | -        |
| 107  | O-ring                    | 1        | 1        | 1        | 1        | 1        | -        |
| 109  | O-ring                    | 1        | 1        | 1        | 1        | 1        | -        |
| 111  | Seal drive, upper         | 1        | 1        | 1        | 1        | 1        | -        |
| -    | Seal ring, stationary     | 1        | 1        | 1        | 1        | 1        | -        |
| -    | Driver for shaft seal     | 1        | 1        | 1        | 1        | 1        | -        |
| -    | Socket set screw          | 2        | 2        | 2        | 2        | 2        | -        |
| -    | Hex socket head cap screw | 3        | 3        | 3        | 3        | 3        | -        |
| -    | Shaft seal, rotating part | -        | -        | 1        | 1        | 1        | -        |
| -    | Plug                      | -        | -        | 1        | 1        | 1        | -        |

**Kit, double shaft seal**

| Pos. | Type                       | OUUK + HUUK | OQQK + HQQK |
|------|----------------------------|-------------|-------------|
|      | Kit No.                    | 98603758    | 98603775    |
| 105  | Double shaft seal complete | 1           | 1           |

**Spare, pump cover**

| Pos. | Pump type  | CRN      |
|------|------------|----------|
|      | Kit No.    | 98969445 |
| 2b   | Pump cover | 1        |





## CR, CRI, CRN 10, 15, 20

### Kit, chamber stack

#### Chamber stack for CR, CRI 10, 15, 20

| Pump type          | SiC-SiC bearing          |
|--------------------|--------------------------|
|                    | Kit No.                  |
| CR 10-1            | <a href="#">98117093</a> |
| CR 10-7            | <a href="#">96659666</a> |
| CR 10-9            | <a href="#">96633884</a> |
| CR 15-2            | <a href="#">98576117</a> |
| CR 15-5            | <a href="#">97704240</a> |
| CR 20-2            | <a href="#">98418477</a> |
| CRI 15-17          | <a href="#">98449381</a> |
| CRI 15-3, low NPSH | <a href="#">96738761</a> |

| Pump type          | HM-SiC bearing           |
|--------------------|--------------------------|
|                    | Kit No.                  |
| CRI 15-6, low NPSH | <a href="#">96656211</a> |

| Pump type           | HM-Bronze bearing        |
|---------------------|--------------------------|
|                     | Kit No.                  |
| CRI 10-20, low NPSH | <a href="#">99493484</a> |

#### Chamber stack for CRN 10, 15, 20

| Pump type                  | SiC-SiC bearing          |
|----------------------------|--------------------------|
|                            | Kit No.                  |
| CRN 10-3                   | <a href="#">93168269</a> |
| CRN 10-12, electropolished | <a href="#">97950251</a> |
| CRN 10-6                   | <a href="#">98456674</a> |
| CRN 10-7                   | <a href="#">96659665</a> |
| CRN 10-9                   | <a href="#">99800331</a> |

### Kit, rubber parts

| Pos. | Material            | EPDM                     | FKM                      | FFKM/EPDM                | FFKM/FKM                 |
|------|---------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|      | Kit No.             | <a href="#">96525433</a> | <a href="#">96525434</a> | <a href="#">96525435</a> | <a href="#">96525436</a> |
| 37   | O-ring, 170.7 x 3.3 | 3                        | 3                        | 3                        | 3                        |
| 38   | O-ring, 16.3 x 2.4  | 7                        | 7                        | 7                        | 7                        |
| 38a  | O-ring, 5.3 x 2.4   | 1                        | 1                        | 1                        | 1                        |
| -    | O-ring, 90.0 x 3.0  | 2                        | 2                        | -                        | -                        |
| 60   | Spring rubber       | 4                        | 4                        | 4                        | 4                        |
| 441b | Gasket flange       | 2                        | 2                        | 2                        | 2                        |
| 441b | Gasket              | 2                        | 2                        | 2                        | 2                        |
| 441b | Gasket              | 2                        | 2                        | 2                        | 2                        |

| Pump type                  | SiC-SiC bearing          |
|----------------------------|--------------------------|
|                            | Kit No.                  |
| CRN 10-9, electropolished  | <a href="#">97713837</a> |
| CRN 15-1                   | <a href="#">97708295</a> |
| CRN 15-10                  | <a href="#">98101940</a> |
| CRN 15-12                  | <a href="#">98120087</a> |
| CRN 15-12, electropolished | <a href="#">97991776</a> |
| CRN 15-14                  | <a href="#">98062806</a> |
| CRN 15-16                  | <a href="#">93225892</a> |
| CRN 15-17, electropolished | <a href="#">98503330</a> |
| CRN 15-3                   | <a href="#">98456696</a> |
| CRN 15-5                   | <a href="#">98456691</a> |
| CRN 15-9, electropolished  | <a href="#">97660459</a> |
| CRN 20-10, electropolished | <a href="#">97713835</a> |
| CRN 20-16, high pressure   | <a href="#">96893436</a> |
| CRN 20-3                   | <a href="#">96642157</a> |

### Kit, gaskets

| Pos. | Material      | FFKM                     | FXM                      |
|------|---------------|--------------------------|--------------------------|
|      | Kit No.       | <a href="#">96533374</a> | <a href="#">96534871</a> |
| 37   | O-ring        | 2                        | 2                        |
| 38   | O-ring        | 3                        | 3                        |
| 38a  | O-ring        | 1                        | 1                        |
| 441b | Gasket flange | 2                        | 2                        |
| 441b | Gasket        | 2                        | 2                        |
| 441b | Gasket        | 2                        | 2                        |
| 60   | Spring        | 4                        | 4                        |

**Kit, shaft seal**

| Type | Kit No.                  |
|------|--------------------------|
| HQQE | <a href="#">96511844</a> |
| HQQV | <a href="#">96511845</a> |
| HQQK | <a href="#">96511846</a> |
| HQQF | <a href="#">96511847</a> |
| HUBK | <a href="#">96511838</a> |
| HUUV | <a href="#">96511841</a> |
| HUUK | <a href="#">96511842</a> |
| HUUF | <a href="#">96511843</a> |

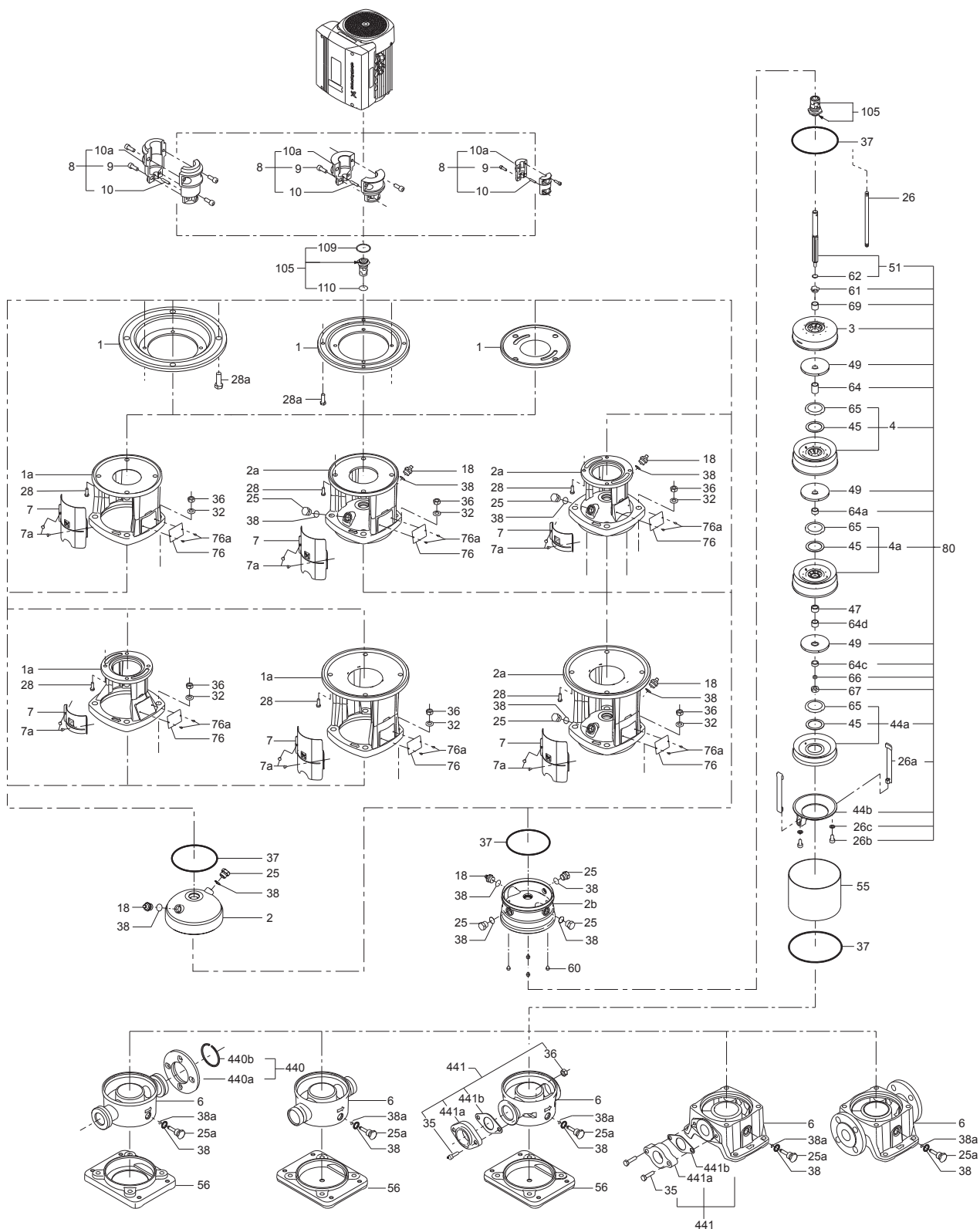
**Content**

| Pos. | Description    | Quantity |
|------|----------------|----------|
| 105  | Shaft seal     | 1        |
| -    | Adjusting fork | 1        |

**Spare, pump cover**

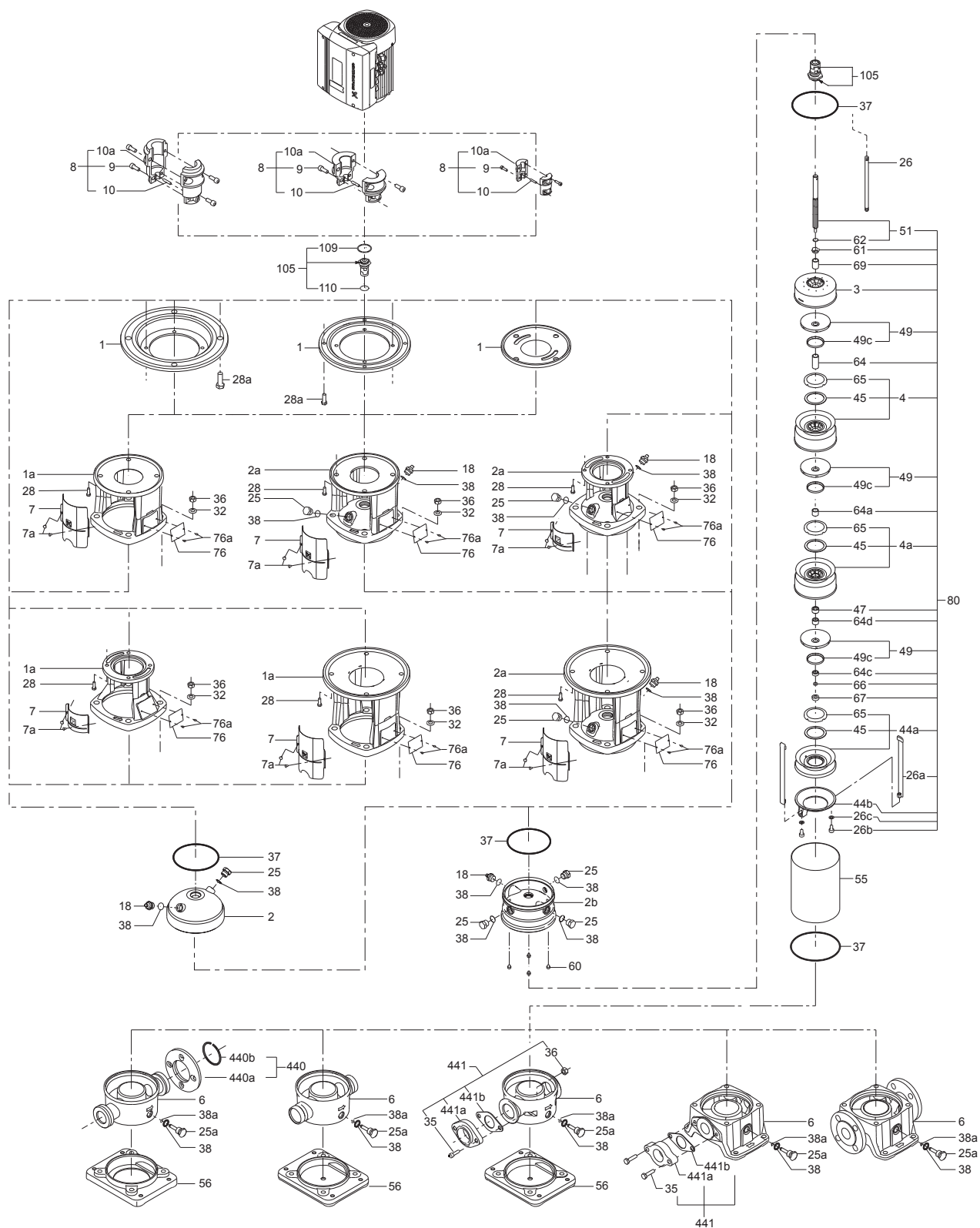
| Pos. | Kit No.    |   |
|------|------------|---|
| 2b   | Pump cover | 1 |

Exploded view for CR, CRI, CRN 10, back to back



TM069466

## Exploded view for CR, CRI, CRN 15, 20, back to back



TM069475

**CR, CRI, CRN 32, 45, 64, 90, model A****Kit, chamber stack****Chamber stack for CR, CRN 32**

| Pump type            | SiC-SiC bearing          |
|----------------------|--------------------------|
|                      | Kit No.                  |
| CR 32-10-2           | <a href="#">98685583</a> |
| CR 32-10-2, low NPSH | <a href="#">98689934</a> |
| CR 32-11-2           | <a href="#">98685585</a> |
| CR 32-12             | <a href="#">98685588</a> |
| CR 32-12, low NPSH   | <a href="#">98689939</a> |
| CR 32-13-2, low NPSH | <a href="#">98689940</a> |
| CR 32-5              | <a href="#">98685574</a> |
| CR 32-6, low NPSH    | <a href="#">98689927</a> |
| CR 32-6-2            | <a href="#">98685575</a> |
| CR 32-6-2, low NPSH  | <a href="#">98689926</a> |
| CR 32-7, low NPSH    | <a href="#">98689929</a> |
| CR 32-7-2, low NPSH  | <a href="#">98689928</a> |
| CR 32-8              | <a href="#">98685580</a> |
| CR 32-8, low NPSH    | <a href="#">98689931</a> |
| CR 32-8-2            | <a href="#">98685579</a> |
| CR 32-9              | <a href="#">98685582</a> |
| CR 32-9-2            | <a href="#">98685581</a> |
| CR 32-1-1            | <a href="#">98685544</a> |
| CR 32-2              | <a href="#">98685548</a> |
| CR 32-2, low NPSH    | <a href="#">98689919</a> |
| CR 32-2-1, low NPSH  | <a href="#">98689918</a> |
| CR 32-3              | <a href="#">98685550</a> |
| CR 32-3, low NPSH    | <a href="#">98689921</a> |
| CR 32-3-2            | <a href="#">98685549</a> |
| CR 32-3-2, low NPSH  | <a href="#">98689920</a> |
| CR 32-4              | <a href="#">98685572</a> |
| CRN 32-10            | <a href="#">98685613</a> |
| CRN 32-11, low NPSH  | <a href="#">98689963</a> |
| CRN 32-11-2          | <a href="#">98685614</a> |
| CRN 32-13-2          | <a href="#">98685618</a> |
| CRN 32-14            | <a href="#">98685622</a> |
| CRN 32-5             | <a href="#">98685603</a> |
| CRN 32-5, low NPSH   | <a href="#">98689951</a> |
| CRN 32-5-2           | <a href="#">98685602</a> |
| CRN 32-6             | <a href="#">98685605</a> |
| CRN 32-6, low NPSH   | <a href="#">98689953</a> |
| CRN 32-6-2           | <a href="#">98685604</a> |
| CRN 32-8, low NPSH   | <a href="#">98689957</a> |
| CRN 32-9-2, low NPSH | <a href="#">98689958</a> |
| CRN 32-1             | <a href="#">98685594</a> |
| CRN 32-2             | <a href="#">98685597</a> |
| CRN 32-2-2           | <a href="#">98685595</a> |
| CRN 32-3             | <a href="#">98685599</a> |
| CRN 32-4             | <a href="#">98685601</a> |
| CRN 32-8             | <a href="#">98685609</a> |

| Pump type | HM-Bronze bearing        |
|-----------|--------------------------|
|           | Kit No.                  |
| CR 32-1-1 | <a href="#">98689841</a> |
| CR 32-2   | <a href="#">98689845</a> |
| CR 32-2-2 | <a href="#">98689843</a> |
| CR 32-3   | <a href="#">98689847</a> |
| CR 32-9-2 | <a href="#">98689858</a> |

**Chamber stack for CR, CRN 45**

| Pump type                    | SiC-SiC bearing          |
|------------------------------|--------------------------|
|                              | Kit No.                  |
| CR 45-1                      | <a href="#">98685624</a> |
| CR 45-1-1                    | <a href="#">98685623</a> |
| CR 45-11-2, low NPSH         | <a href="#">98689994</a> |
| CR 45-12                     | <a href="#">98685653</a> |
| CR 45-12, low NPSH           | <a href="#">98689997</a> |
| CR 45-12-2, low NPSH         | <a href="#">98689996</a> |
| CR 45-2-1 (shaft L544)       | <a href="#">99901392</a> |
| CR 45-2-1 (shaft L624)       | <a href="#">98685626</a> |
| CR 45-2-1, low NPSH          | <a href="#">98689970</a> |
| CR 45-2-2                    | <a href="#">98685625</a> |
| CR 45-3-1                    | <a href="#">98685629</a> |
| CR 45-3-2, low NPSH          | <a href="#">98689972</a> |
| CR 45-4                      | <a href="#">98685633</a> |
| CR 45-4, low NPSH            | <a href="#">98689977</a> |
| CR 45-4-2                    | <a href="#">98685631</a> |
| CR 45-4-2, low NPSH          | <a href="#">98689975</a> |
| CR 45-5, low NPSH            | <a href="#">98689980</a> |
| CR 45-5-1                    | <a href="#">98685635</a> |
| CR 45-5-2, low NPSH          | <a href="#">98689978</a> |
| CR 45-6                      | <a href="#">98685639</a> |
| CR 45-6, low NPSH            | <a href="#">98689983</a> |
| CR 45-6-2                    | <a href="#">98685637</a> |
| CR 45-6-2, low NPSH          | <a href="#">98689981</a> |
| CR 45-7, low NPSH            | <a href="#">98689986</a> |
| CR 45-7-2                    | <a href="#">98685640</a> |
| CR 45-7-2, low NPSH          | <a href="#">98689984</a> |
| CR 45-8-1                    | <a href="#">98685644</a> |
| CR 45-8-1, low NPSH          | <a href="#">98689988</a> |
| CR 45-9                      | <a href="#">98685647</a> |
| CR 45-9, low NPSH            | <a href="#">98689991</a> |
| CRN 45-1                     | <a href="#">98685656</a> |
| CRN 45-10                    | <a href="#">98685681</a> |
| CRN 45-10-2                  | <a href="#">98685680</a> |
| CRN 45-1-1                   | <a href="#">98685655</a> |
| CRN 45-12, low NPSH          | <a href="#">98690026</a> |
| CRN 45-13-2, low NPSH        | <a href="#">98690027</a> |
| CRN 45-2                     | <a href="#">98685659</a> |
| CRN 45-2-2                   | <a href="#">98685657</a> |
| CRN 45-2-2, with certificate | <a href="#">99351916</a> |
| CRN 45-3                     | <a href="#">98685662</a> |
| CRN 45-3, low NPSH           | <a href="#">98690003</a> |
| CRN 45-4                     | <a href="#">98685665</a> |
| CRN 45-4-2                   | <a href="#">98685663</a> |
| CRN 45-5-2                   | <a href="#">98685666</a> |
| CRN 45-6                     | <a href="#">98685671</a> |

| Pump type            | SiC-SiC bearing          |
|----------------------|--------------------------|
|                      | Kit No.                  |
| CRN 45-7, low NPSH   | <a href="#">98690015</a> |
| CRN 45-8, low NPSH   | <a href="#">98690018</a> |
| CRN 45-8-1, low NPSH | <a href="#">98690017</a> |
| CRN 45-9-2           | <a href="#">98685678</a> |
| CRN 45-9-2, low NPSH | <a href="#">98690019</a> |

| Pump type | HM-Bronze bearing        |
|-----------|--------------------------|
|           | Kit No.                  |
| CR 45-3   | <a href="#">98689877</a> |
| CR 45-4-2 | <a href="#">98689878</a> |
| CR 45-7-2 | <a href="#">98689887</a> |

### Chamber stack for CR 90

| Pump type | SiC-SiC bearing          |
|-----------|--------------------------|
|           | Kit No.                  |
| CR 90-2   | <a href="#">99462550</a> |

### Kit, shaft seal

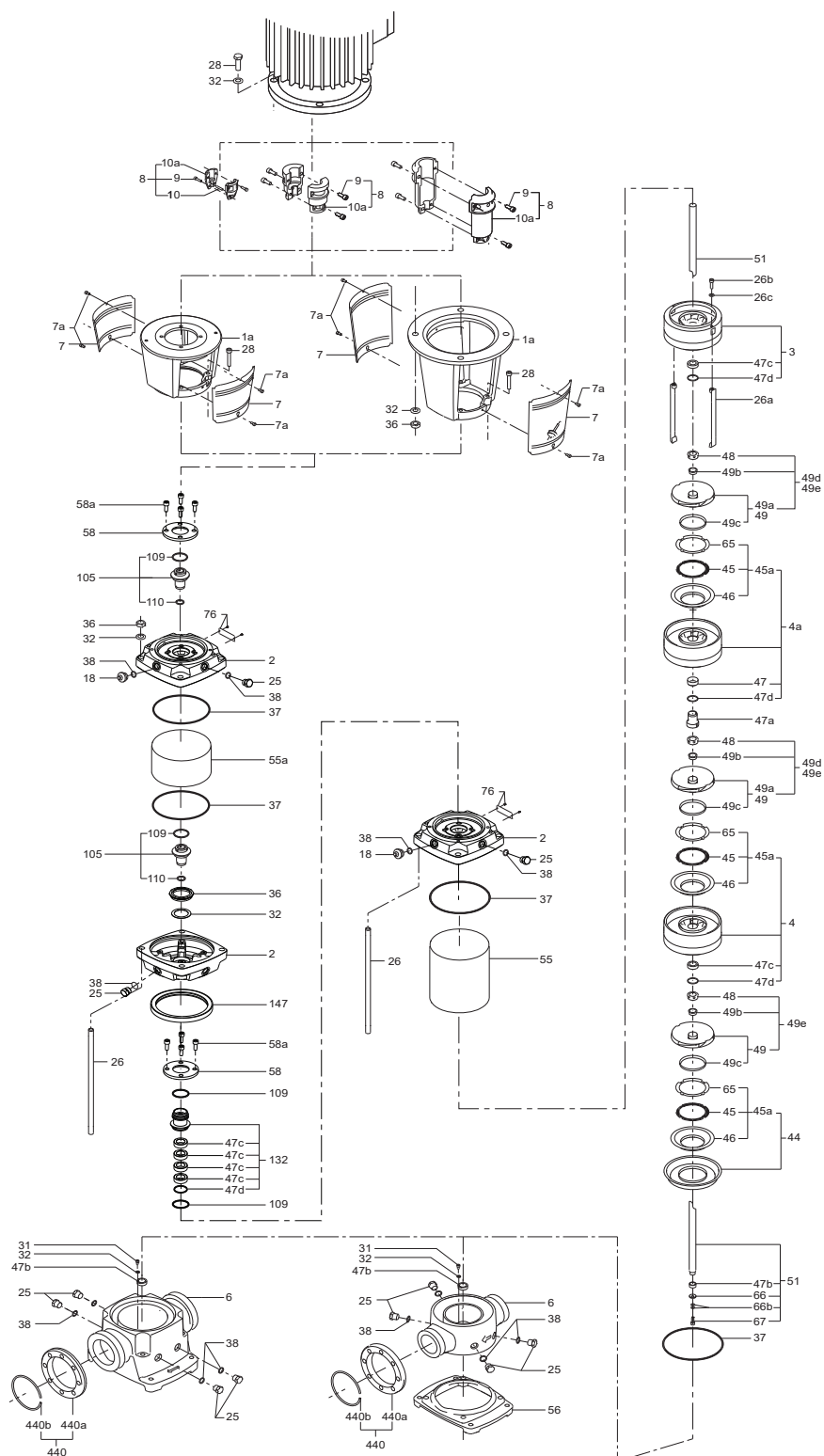
| Pos. | Pump type              | CR, CRN 32               | CR, CRN 32               | CR, CRN 45, 64           | CR, CRN 45, 64           | CR, CRN 90               | CR, CRN 90               |
|------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|      | Material               | AUUE                     | AUUV                     | AUUE                     | AUUV                     | AUUE                     | AUUV                     |
|      | Kit No.                | <a href="#">96578679</a> | <a href="#">96578680</a> | <a href="#">96578681</a> | <a href="#">96578682</a> | <a href="#">96578683</a> | <a href="#">96578684</a> |
| -    | Compression spring     | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |
| -    | Grinding device        | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |
| -    | Nut                    | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |
| 37   | O-ring                 | 2                        | 2                        | 2                        | 2                        | 2                        | 2                        |
| -    | O-ring                 | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |
| -    | O-ring                 | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |
| -    | O-ring                 | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |
| -    | Retainer for seal ring | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |
| -    | Seal drive             | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |
| -    | Seal ring, rotating    | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |
| -    | Seal ring, stationary  | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |
| 9    | Socket sect screw      | 2                        | 2                        | 2                        | 2                        | 2                        | 2                        |
| -    | Spring retainer        | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |
| -    | Upper seal driver      | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |
| -    | Washer                 | 1                        | 1                        | 1                        | 1                        | 1                        | 1                        |

### Kit, connecting pipe

| Pos. | Description     | Material | EPDM/FKM                 | FXM                      |
|------|-----------------|----------|--------------------------|--------------------------|
|      |                 | Kit No.  | <a href="#">96578685</a> | <a href="#">96578686</a> |
| 109  | O-ring          | FXM      | -                        | 2                        |
|      |                 | EPDM     | 2                        | -                        |
|      |                 | FKM      | 2                        | -                        |
| -    | Connecting pipe |          | 1                        | 1                        |
| 47c  | Bush            |          | -                        | 3                        |
| 47d  | Locking ring    |          | -                        | 1                        |



Exploded view for CR, CRI, CRN 32, 45, 64, 90, model A, back to back



T1M069484

## CR, CRI, CRN 32, 45, 64, 90, model B

### Kit, chamber stack

#### Chamber stack for CR, CRN 32

| Pump type                                | SiC-SiC bearing          |
|------------------------------------------|--------------------------|
|                                          | Kit No.                  |
| CR 32-1                                  | <a href="#">98246999</a> |
| CR 32-1-1                                | <a href="#">98074712</a> |
| CR 32-2                                  | <a href="#">96753715</a> |
| CR 32-2, low NPSH                        | <a href="#">98134101</a> |
| CR 32-2-2 (with Teflon support bearing)  | <a href="#">97563478</a> |
| CR 32-2-2 (with Graflon support bearing) | <a href="#">98357774</a> |
| CR 32-3                                  | <a href="#">96883017</a> |
| CR 32-4                                  | <a href="#">96546499</a> |
| CR 32-4, low NPSH                        | <a href="#">96692797</a> |
| CR 32-9                                  | <a href="#">99445725</a> |
| CRN 32-2                                 | <a href="#">96899905</a> |
| CRN 32-2, low NPSH                       | <a href="#">98381436</a> |
| CRN 32-2-2                               | <a href="#">97849962</a> |
| CRN 32-3                                 | <a href="#">97954246</a> |
| CRN 32-3-2                               | <a href="#">96648451</a> |
| CRN 32-4                                 | <a href="#">96804649</a> |
| CRN 32-4-2                               | <a href="#">96659662</a> |

| Pump type | HM-Bronze bearing        |
|-----------|--------------------------|
|           | Kit No.                  |
| CR 32-3-2 | <a href="#">97780122</a> |

#### Chamber stack for CR, CRN 45

| Pump type            | SiC-SiC bearing          |
|----------------------|--------------------------|
|                      | Kit No.                  |
| CR 45- 7, low NPSH   | <a href="#">98159355</a> |
| CR 45-10             | <a href="#">98145561</a> |
| CR 45-11             | <a href="#">98618625</a> |
| CR 45-11-2           | <a href="#">98095372</a> |
| CR 45-11-2, low NPSH | <a href="#">98365826</a> |
| CR 45-12, low NPSH   | <a href="#">98373592</a> |
| CR 45-2, low NPSH    | <a href="#">96639957</a> |
| CR 45-2-1            | <a href="#">99901392</a> |
| CR 45-2-2            | <a href="#">98542446</a> |
| CR 45-3-1            | <a href="#">98177058</a> |
| CR 45-4              | <a href="#">98143478</a> |
| CR 45-4-2            | <a href="#">96959189</a> |
| CR 45-4-2, low NPSH  | <a href="#">98533438</a> |
| CR 45-5, low NPSH    | <a href="#">97512631</a> |
| CR 45-5-1, low NPSH  | <a href="#">98256759</a> |
| CR 45-6, low NPSH    | <a href="#">97788392</a> |
| CR 45-6-2, low NPSH  | <a href="#">96741100</a> |
| CR 45-7              | <a href="#">96740445</a> |
| CR 45-7, low NPSH    | <a href="#">96638646</a> |
| CR 45-7-2            | <a href="#">98504629</a> |
| CR 45-7-2, low NPSH  | <a href="#">98664650</a> |
| CR 45-8-1            | <a href="#">91129546</a> |
| CR 45-8-1, low NPSH  | <a href="#">98185884</a> |
| CR 45-8-2            | <a href="#">97917989</a> |

| Pump type                 | SiC-SiC bearing          |
|---------------------------|--------------------------|
|                           | Kit No.                  |
| CR 45-9, low NPSH         | <a href="#">98157233</a> |
| CR 45-9-2                 | <a href="#">98455998</a> |
| CRN 45-1                  | <a href="#">96834669</a> |
| CRN 45-10                 | <a href="#">97794966</a> |
| CRN 45-10-2               | <a href="#">98482896</a> |
| CRN 45-13-2               | <a href="#">97984668</a> |
| CRN 45-2                  | <a href="#">98419927</a> |
| CRN 45-2, electropolished | <a href="#">99230285</a> |
| CRN 45-2-1                | <a href="#">92771021</a> |
| CRN 45-2-2                | <a href="#">96488833</a> |
| CRN 45-3                  | <a href="#">96871757</a> |
| CRN 45-4                  | <a href="#">98118612</a> |
| CRN 45-4-2                | <a href="#">96878006</a> |
| CRN 45-4-2, low NPSH      | <a href="#">98245556</a> |
| CRN 45-5                  | <a href="#">97633443</a> |
| CRN 45-5-2                | <a href="#">99653888</a> |
| CRN 45-6                  | <a href="#">98423098</a> |
| CRN 45-6, low NPSH        | <a href="#">98543542</a> |
| CRN 45-6-2                | <a href="#">98423106</a> |
| CRN 45-7                  | <a href="#">97753362</a> |
| CRN 45-7-1                | <a href="#">99650656</a> |

#### Chamber stack for CR, CRN 64

| Pump type            | SiC-SiC bearing          |
|----------------------|--------------------------|
|                      | Kit No.                  |
| CR 64-1              | <a href="#">98369036</a> |
| CR 64-1-1            | <a href="#">98097070</a> |
| CR 64-2              | <a href="#">96659546</a> |
| CR 64-3-1            | <a href="#">98257307</a> |
| CR 64-4              | <a href="#">96613188</a> |
| CR 64-4, low NPSH    | <a href="#">96944442</a> |
| CR 64-4-2            | <a href="#">97753415</a> |
| CR 64-4-2, low NPSH  | <a href="#">98134322</a> |
| CR 64-5-2, low NPSH  | <a href="#">98186848</a> |
| CRN 64-1             | <a href="#">96577443</a> |
| CRN 64-2             | <a href="#">97790091</a> |
| CRN 64-2-1           | <a href="#">98362170</a> |
| CRN 64-2-1, low NPSH | <a href="#">96749927</a> |
| CRN 64-2-2           | <a href="#">98288200</a> |
| CRN 64-3             | <a href="#">96864598</a> |
| CRN 64-3, low NPSH   | <a href="#">97763577</a> |
| CRN 64-3-1           | <a href="#">98729686</a> |
| CRN 64-4             | <a href="#">96864597</a> |
| CRN 64-4-1           | <a href="#">97633207</a> |
| CRN 64-5             | <a href="#">99489477</a> |
| CRN 64-6             | <a href="#">96828309</a> |
| CRN 64-6-1           | <a href="#">96843492</a> |
| CRN 64-6-2           | <a href="#">98617381</a> |
| CRN 64-7             | <a href="#">99490627</a> |

**Chamber stack for CR, CRN 90**

| Pump type  | SiC-SiC bearing |
|------------|-----------------|
|            | Kit No.         |
| CR 90-2    | 99462550        |
| CR 90-2-2  | 98581629        |
| CR 90-5    | 98414775        |
| CR 90-6    | 98156944        |
| CRN 90-2   | 97530553        |
| CRN 90-3   | 96864901        |
| CRN 90-4-1 | 98447608        |

| Pump type | HM-Bronze bearing |
|-----------|-------------------|
|           | Kit No.           |
| CR 90-6   | 99688046          |

**Kit, cover**

| Pos. | Kit No.                   | 98593648 |
|------|---------------------------|----------|
| 58   | Cover N                   | 1        |
| 58a  | Hex socket head cap screw | 4        |

**Kit, O-ring****O-ring for CR, CRN 32**

| Pos. | Material       | EPDM     | FKM      | FXM      | FFKM     |
|------|----------------|----------|----------|----------|----------|
|      | Kit No.        | 98593542 | 98593544 | 98593547 | 98593549 |
| 37   | O-ring         | 3        | 3        | 3        | 3        |
| 38   | O-ring         | 10       | 8        | 8        | 8        |
| 60   | Spring rubber  | 4        | 4        | 4        | 4        |
| -    | Adjusting fort | 2        | 2        | -        | -        |

**O-ring for CR, CRN 32**

| Pos. | Material       |      | FXM/EPDM | FXM/FKM  | FFKM/EPDM | FFKM/FKM |
|------|----------------|------|----------|----------|-----------|----------|
|      | Kit No.        |      | 98593562 | 98593563 | 98593564  | 98593565 |
| 37   | O-ring         | EPDM | 1        | -        | 1         | -        |
|      |                | FXM  | 2        | 2        | 2         | 2        |
|      |                | FKM  | -        | 1        | -         | 1        |
| 38   | O-ring         | EPDM | 4        | -        | 4         | -        |
|      |                | FXM  | 6        | 6        | -         | -        |
|      |                | FKM  | -        | 4        | -         | 4        |
|      |                | FFKM | -        | -        | 6         | 6        |
| 60   | Spring rubber  |      | 4        | 4        | 4         | 4        |
| -    | Adjusting fort |      | 1        | -        | 1         | -        |

**O-ring for CR, CRN 45, 64**

| Pos. | Material       | EPDM     | FKM      | FXM      | FFKM     |
|------|----------------|----------|----------|----------|----------|
|      | Kit No.        | 98593566 | 98593568 | 98593592 | 98593593 |
| 37   | O-ring         | 3        | 3        | 3        | 3        |
| 38   | O-ring         | 10       | 8        | 8        | 8        |
| 60   | Spring rubber  | 4        | 4        | 4        | 4        |
| -    | Adjusting fort | 2        | 2        | -        | -        |

**O-ring for CR, CRN 45, 64**

| Pos. | Material       |      | FXM/EPDM | FXM/FKM  | FFKM/EPDM | FFKM/FKM |
|------|----------------|------|----------|----------|-----------|----------|
|      | Kit No.        |      | 98593594 | 98593598 | 98593603  | 98593608 |
| 37   | O-ring         | EPDM | 1        | -        | 1         | -        |
|      |                | FXM  | 2        | 2        | 2         | 2        |
|      |                | FKM  | -        | 1        | -         | 1        |
| 38   | O-ring         | EPDM | 4        | -        | 4         | -        |
|      |                | FXM  | 6        | 6        | -         | -        |
|      |                | FKM  | -        | 4        | -         | 4        |
|      |                | FFKM | -        | -        | 6         | 6        |
| 60   | Spring rubber  |      | 4        | 4        | 4         | 4        |
| -    | Adjusting fort |      | 1        | -        | 1         | -        |

**O-ring for CR, CRN 90**

| Pos. | Material       | EPDM     | FKM      | FXM      | FFKM     |
|------|----------------|----------|----------|----------|----------|
|      | Kit No.        | 98593611 | 98593612 | 98593615 | 98593616 |
| 37   | O-ring         | 3        | 3        | 3        | 3        |
| 38   | O-ring         | 10       | 8        | 8        | 8        |
| 60   | Spring rubber  | 4        | 4        | 4        | 4        |
| -    | Adjusting fort | 2        | 2        | -        | -        |

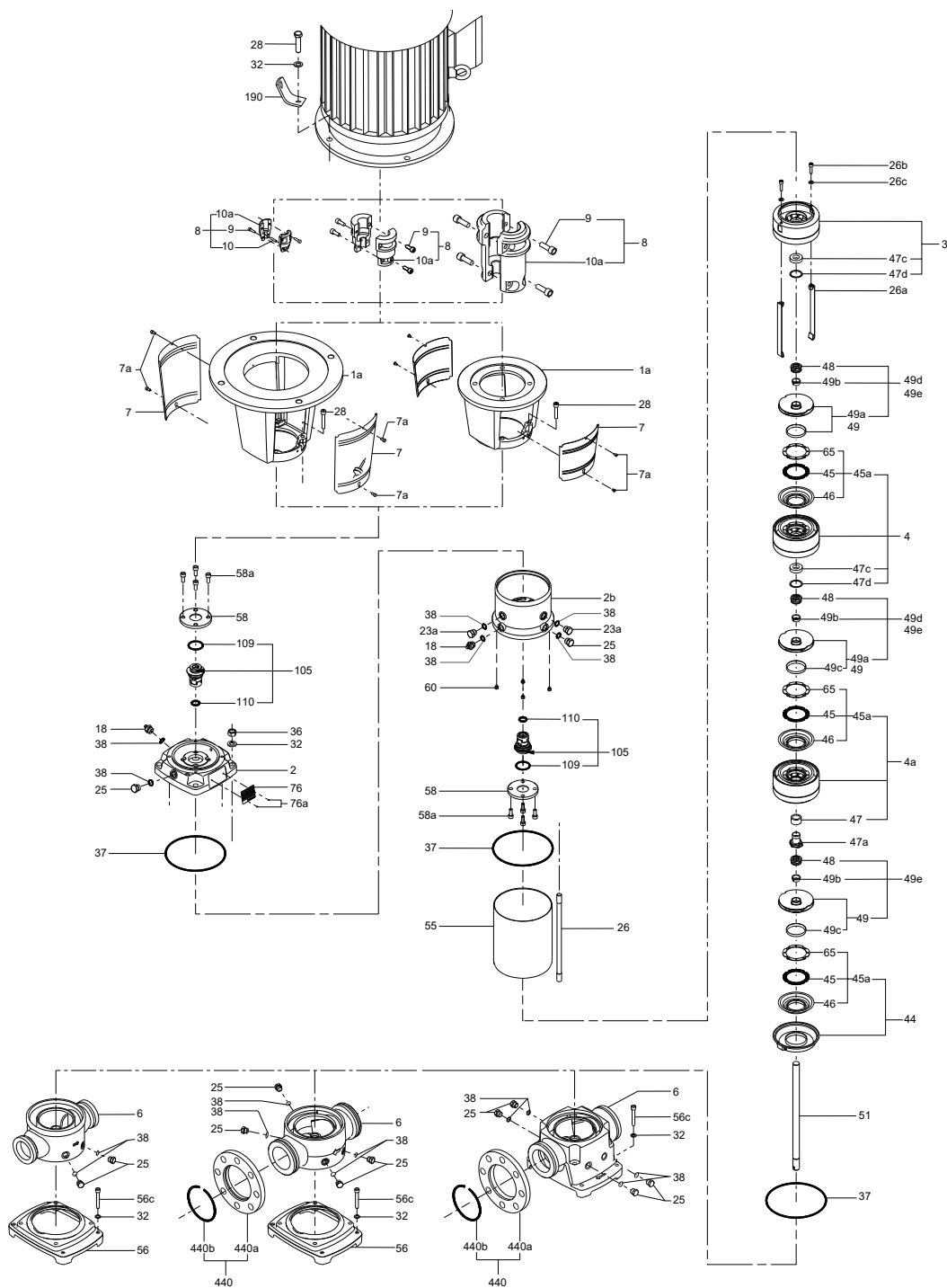
**O-ring for CR, CRN 90**

| Pos. | Material       |      | FXM/EPDM | FXM/FKM  | FFKM/EPDM | FFKM/FKM |
|------|----------------|------|----------|----------|-----------|----------|
|      | Kit No.        |      | 98593618 | 98593620 | 98593622  | 98593624 |
| 37   | O-ring         | EPDM | 1        | -        | 1         | -        |
|      |                | FXM  | 2        | 2        | 2         | 2        |
|      |                | FKM  | -        | 1        | -         | 1        |
| 38   | O-ring         | EPDM | 4        | -        | 4         | -        |
|      |                | FXM  | 6        | 6        | -         | -        |
|      |                | FKM  | -        | 4        | -         | 4        |
|      |                | FFKM | -        | -        | 6         | 6        |
| 60   | Spring rubber  |      | 4        | 4        | 4         | 4        |
| -    | Adjusting fort |      | 1        | -        | 1         | -        |

**Kit, plug**

| Pos. | Kit No.    | 98593644 |
|------|------------|----------|
| 23a  | Plug       | 2        |
| 18   | Vent screw | 1        |
| 25   | Plug       | 1        |
| 38   | O-ring     | 4        |
| 38   | O-ring     | 4        |
| 38   | O-ring     | 4        |

Exploded view for CR, CRI, CRN 32, 45, 64, 90, model B, back to back



**CR, CRN 120, 150****Kit, chamber stack**

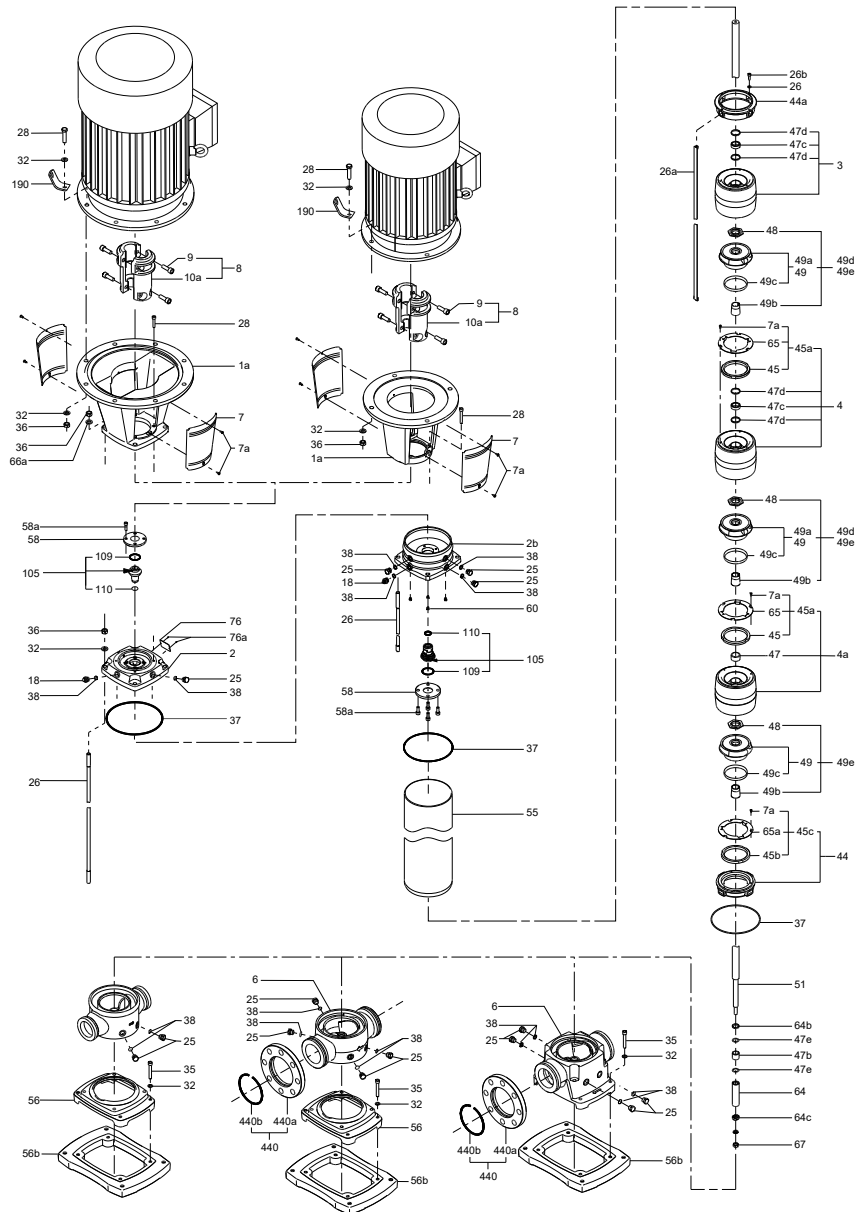
| Pump type   | SiC-SiC bearing          |
|-------------|--------------------------|
|             | Kit No.                  |
| CRN 150-4-1 | <a href="#">98489469</a> |

**Kit, O-ring**

| Pos. | Material            | EPDM                     | FKM                      | FXM                      | FFKM                     |
|------|---------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|      | Kit No.             | <a href="#">99017308</a> | <a href="#">99017507</a> | <a href="#">99017508</a> | <a href="#">99017509</a> |
| 37   | O-ring              | 3                        | 3                        | 3                        | 3                        |
| 38   | O-ring              | 10                       | 10                       | 10                       | 10                       |
| 60   | Spring              | 4                        | 4                        | 4                        | 4                        |
| -    | Adjusting fork, D32 | 1                        | 1                        | 1                        | 1                        |
| -    | Adjusting fork, D22 | 1                        | 1                        | 1                        | 1                        |

| Pos. | Material             | FXM/EPDM                 | FXM/FKM                  | FFKM/EPDM                | FFKM/FKM                 |
|------|----------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|      | Kit No.              | <a href="#">99017510</a> | <a href="#">99017511</a> | <a href="#">99017512</a> | <a href="#">99017523</a> |
| 37   | O-ring EPDM          | 1                        | -                        | 1                        | -                        |
|      | O-ring FXM           | 2                        | 2                        | 2                        | 2                        |
|      | O-ring FKM           | -                        | 1                        | -                        | 1                        |
| 38   | O-ring EPDM          | 4                        | -                        | 4                        | -                        |
|      | O-ring FXM           | 6                        | 6                        | -                        | -                        |
|      | O-ring FKM           | -                        | 4                        | -                        | 4                        |
|      | O-ring FFKM          | -                        | -                        | 6                        | 6                        |
| 60   | Spring rubber        | 4                        | 4                        | 4                        | 4                        |
| -    | Adjusting fork, D32  | 1                        | 1                        | 1                        | 1                        |
| -    | Adjusting fork, D 22 | 1                        | 1                        | 1                        | 1                        |

## Exploded view for CR, CRN 120, 150, back to back



## CR, CRN 95 - 255

## Kit, O-ring

| Pos. | Pump type           | CR, CRN 95 | CR, CRN 95 | CR, CRN 95 | CR, CRN 95 |
|------|---------------------|------------|------------|------------|------------|
|      | Shaft diameter [mm] | EPDM       | FXM        | FFKM/FXM   | FKM        |
|      | Rubber material     | 22         | 22         | 22         | 22         |
|      | Kit No.             | 99560788   | 99560792   | 99560793   | 99560789   |
| 37   | O-ring              | 3          | 3          | 3          | 3          |
| 38   | O-ring              | 10         | 10         | 10         | 10         |
| 109  | O-ring              | 2          | 2          | 2          | 2          |
| 110  | O-ring              | 2          | 2          | 2          | 2          |

| Pos. | Pump type           | CR, CRN 125, 155 | CR, CRN 125, 155 | CR, CRN 125, 155 | CR, CRN 125, 155 |
|------|---------------------|------------------|------------------|------------------|------------------|
|      | Shaft diameter [mm] | EPDM             | FKM              | FXM              | FFKM/FXM         |
|      | Rubber material     | 22               | 22               | 22               | 22               |
|      | Kit No.             | 99560790         | 99560791         | 99560795         | 99560796         |
| 37   | O-ring              | 3                | 3                | 3                | 3                |
| 38   | O-ring              | 10               | 10               | 10               | 10               |
| 109  | O-ring              | 2                | 2                | 2                | 2                |
| 110  | O-ring              | 2                | 2                | 2                | 2                |

## Kit, plug

| Pos. | Rubber material         | EPDM     | FFKM     | FKM      | FXM      |
|------|-------------------------|----------|----------|----------|----------|
|      | Kit No.                 | 99560784 | 99560787 | 99560785 | 99560786 |
| -    | Plug complete           | 3        | 3        | 3        | 3        |
| 18   | Air vent screw complete | 1        | -        | 1        | 1        |
| 118  | Air vent screw complete | -        | 1        | -        | -        |



**Kit, shaft seal ø22**

| Code for shaft seal | Kit No.                  |
|---------------------|--------------------------|
| HQBE                | <a href="#">99560761</a> |
| HQBF                | <a href="#">99560763</a> |
| HQBK                | <a href="#">99560765</a> |
| HQBV                | <a href="#">99560762</a> |
| HQQE                | <a href="#">99560753</a> |
| HQQE                | <a href="#">99560754</a> |
| HQQF                | <a href="#">99560758</a> |
| HQQK                | <a href="#">99560759</a> |
| HQQK                | <a href="#">99560760</a> |
| HQQV                | <a href="#">99560756</a> |
| HQQV                | <a href="#">99560757</a> |
| HUBE                | <a href="#">99560766</a> |
| HUBF                | <a href="#">99560768</a> |
| HUBK                | <a href="#">99560769</a> |
| HUBV                | <a href="#">99560767</a> |
| HUQE                | <a href="#">99560770</a> |
| HUQE                | <a href="#">99560771</a> |
| HUQF                | <a href="#">99560774</a> |
| HUQK                | <a href="#">99560775</a> |
| HUQK                | <a href="#">99560776</a> |
| HUQV                | <a href="#">99560772</a> |
| HUQV                | <a href="#">99560773</a> |
| HUUE                | <a href="#">99560777</a> |
| HUUE                | <a href="#">99560778</a> |
| HUUK                | <a href="#">99560782</a> |
| HUUK                | <a href="#">99560783</a> |
| HUUV                | <a href="#">99560780</a> |
| HUUV                | <a href="#">99560781</a> |

| Pos. | Description                 | Quantity |
|------|-----------------------------|----------|
| 105  | Shaft seal                  | 1        |
| -    | Grinding device, shaft seal | 1        |

**Spare, cover**

| Pos. | Pump type              | CR, CRN 95               | CR, CRN 125, 155         |
|------|------------------------|--------------------------|--------------------------|
|      | Shaft seal thread dia. | M50                      | M50                      |
|      | Sleeve diameter[mm]    | 254                      | 304                      |
|      | Kit No.                | <a href="#">99560797</a> | <a href="#">99560798</a> |
| 58   | Cover                  | 1                        | 1                        |

## Spare, shaft

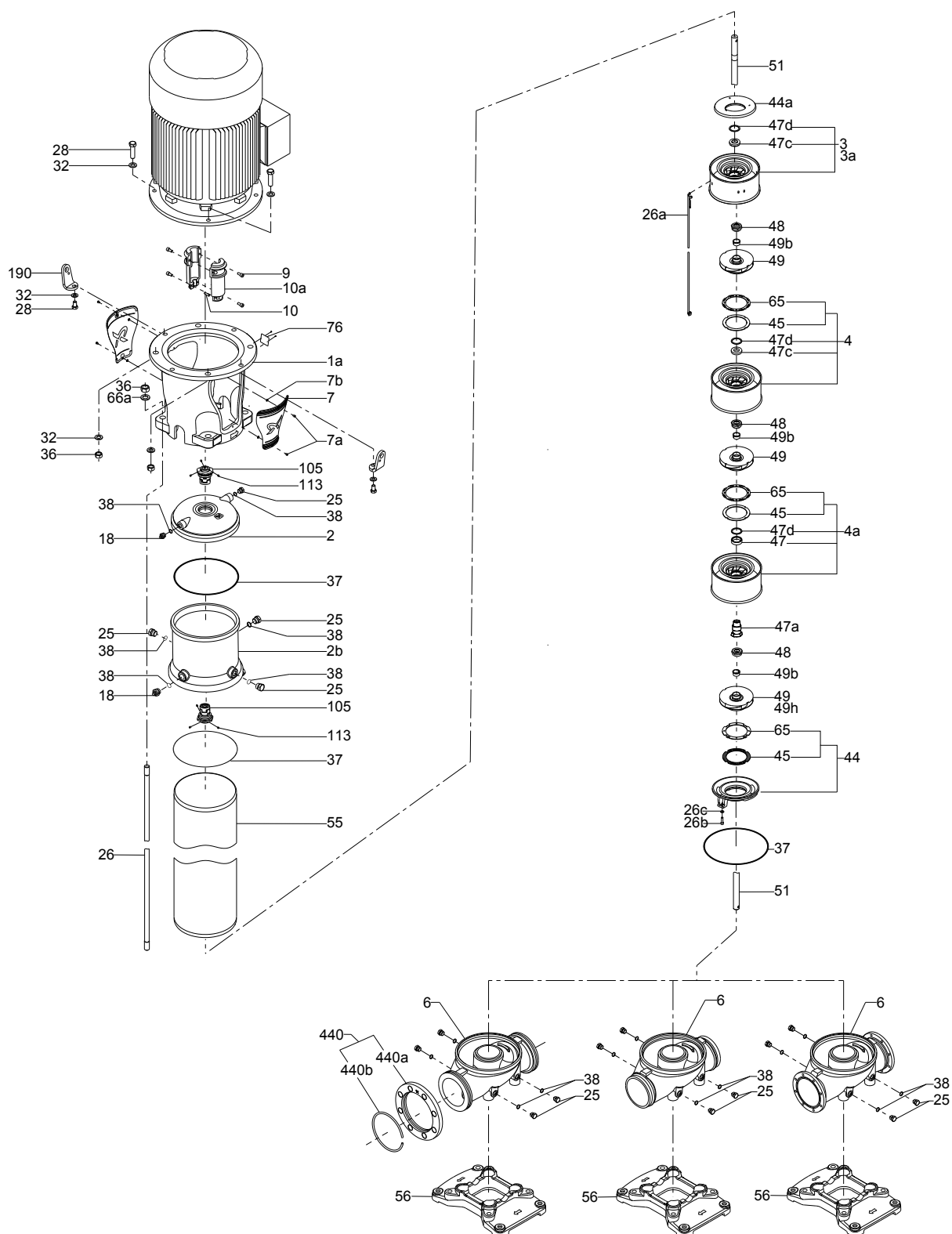
## CR 95 without thrust-handing device

|      | Pump type                | CR 95    | CR 95    | CR 95    | CR 95    | CR 95    | CR 95    |
|------|--------------------------|----------|----------|----------|----------|----------|----------|
|      | Stage                    | 1        | 2        | 3        | 4        | 5        | 6        |
| Pos. | Shaft diameter [mm]      | 22       | 22       | 22       | 22       | 22       | 22       |
|      | Shaft seal diameter [mm] | 22       | 22       | 22       | 22       | 22       | 22       |
|      | Kit No.                  | 99560799 | 99560800 | 99560801 | 99560802 | 99560803 | 99560804 |
| 51   | Shaft                    | 1        | 1        | 1        | 1        | 1        | 1        |

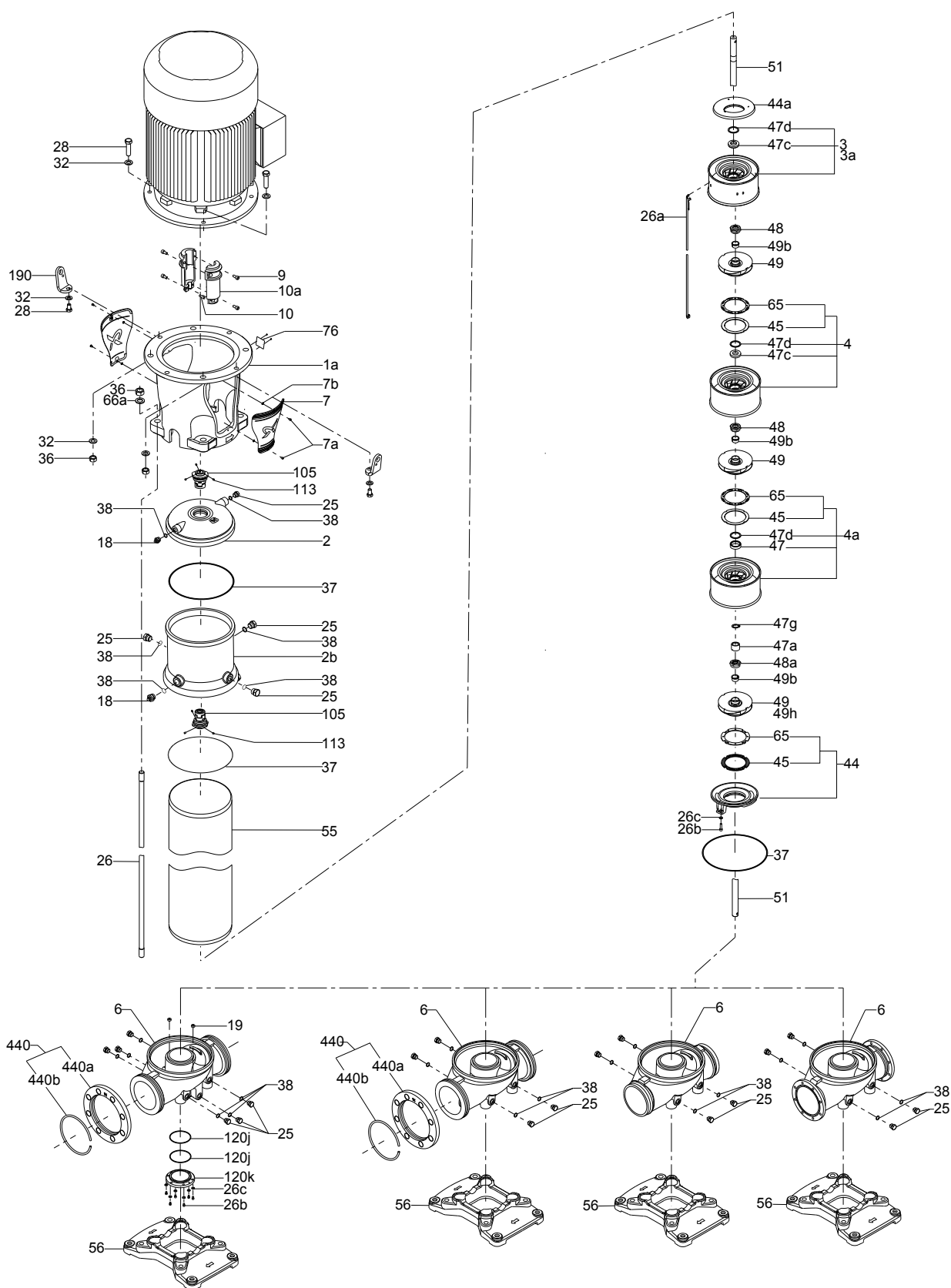
## CRN 95 without thrust-handing device

|      | Pump type                | CRN 95   | CRN 95   | CRN 95   | CRN 95   | CRN 95   | CRN 95   |
|------|--------------------------|----------|----------|----------|----------|----------|----------|
|      | Stage                    | 1        | 2        | 3        | 4        | 5        | 6        |
| Pos. | Shaft diameter [mm]      | 22       | 22       | 22       | 22       | 22       | 22       |
|      | Shaft seal diameter [mm] | 22       | 22       | 22       | 22       | 22       | 22       |
|      | Kit No.                  | 99560805 | 99560806 | 99560807 | 99560808 | 99560809 | 99560810 |
| 51   | Shaft                    | 1        | 1        | 1        | 1        | 1        | 1        |

**Exploded view for CR, CRN 95 - 255, ø22 back-to-back shaft seal**



Exploded view for CR, CRN 95 - 255, ø28 or ø36 back-to-back shaft seal



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