



# CR10-H

## Parts List & Kits

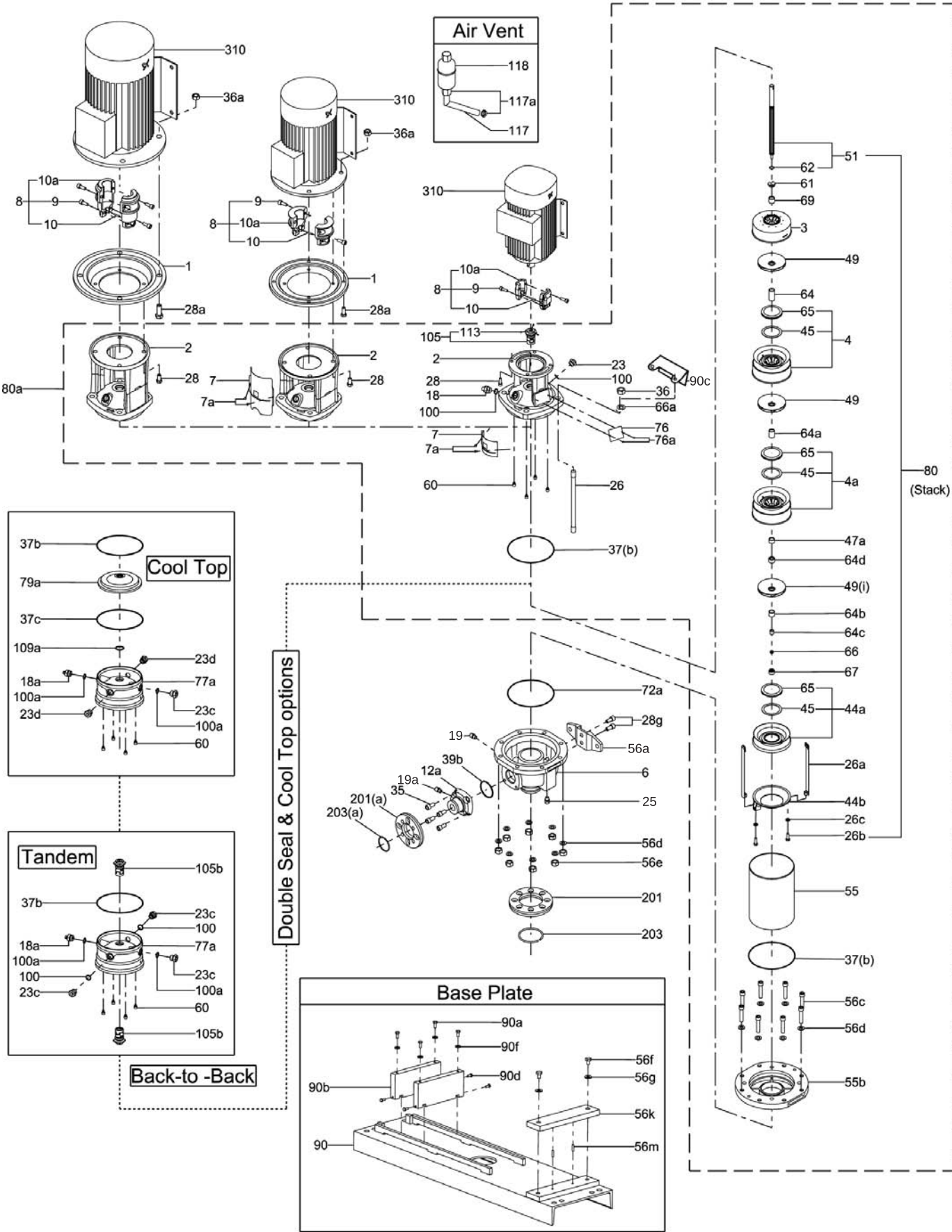
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# Exploded View CR10-H



TM047921

# Parts List & Kits CR10-H

| Pos. No.          | Part Description                               | Model | Stages    | No. Used | Comments/Dimensions                                   | B.O.M. Ref. No. | Material No. | Included in kits ? |
|-------------------|------------------------------------------------|-------|-----------|----------|-------------------------------------------------------|-----------------|--------------|--------------------|
| <b>PARTS LIST</b> |                                                |       |           |          |                                                       |                 |              |                    |
| 1                 | Adapter for Motor Stool                        |       | 7-12      | 1        | For NEMA, 213/215TC, 7.5 - 10HP                       | 96476208        |              | No                 |
| 2                 | Motor Stool                                    |       | 14-18/17  | 1        | For NEMA, F254TC, 15-20HP                             | 96486329        |              | No                 |
|                   |                                                |       | 2/1-2     | 1        | NEMA, 56C, .75 - 2.0HP                                | 96486287        |              | No                 |
|                   |                                                |       | 3-6       | 1        | NEMA, 182TC, 3 - 5HP (High)                           | 96486311        |              | No                 |
|                   |                                                |       | 7-12      | 1        | Add Pos.1 NEMA 213/215TC, 7.5-10HP (High)             | 96486311        |              | No                 |
|                   |                                                |       | 14-18/17  | 1        | Add Pos. 1 for NEMA 254/256TC, 15-20HP                | 96486311        |              | No                 |
|                   |                                                |       |           | 1        | NEMA, 284/286TSC, 25HP                                | 96486293        |              | No                 |
| 3                 | Chamber, Top, Complete with guide vane         |       | 2-17      | *1       | Slotted to accept Strap, pos. 26a                     | 96487783        |              | No                 |
| 3a                | Chamber N, Top, without guide vane             |       | 2/1&18/17 | *1       | Slotted to accept Strap, pos. 26a                     | 96491220        |              | No                 |
| 3b                | Chamber without guide vane                     |       | 3-22      | *1       |                                                       | 420015          |              | No                 |
| 4                 | Chamber complete with Pos. 45 & 65             |       | 2/1-22    | ^^^      | PTFE Pos.45                                           | 96487846        |              | No                 |
| 4a                | Chamber Cpl. w/Pos. 45 & 65 & Bearing          |       | 2/1-22    | ^^^^     | Silicon Carbide Bearing, PTFE Pos.45                  | 96747280        |              | YES*               |
|                   | Chamber N Cpl. w/Pos. 45 & 65 & Brg. (option)  |       | 2/1-22    | ^^^^     | Graflon Bearing, PTFE Pos.45                          | 96492496        |              | YES                |
|                   | Chamber N Cpl. w/Pos. 45 & 65 & Brg. (option)  |       | 2/1-22    | ^^^^     | Bronze Bearing, PTFE Pos.45                           | 96492498        |              | YES                |
| 4b                | Chamber N Cpl. w/Pos. 45 & 65, (Low NPSH opt.) |       | 3-18/17   | 1        | PTFE Pos.45                                           | 96505300        |              | No                 |
| 6                 | Volute, suction / discharge base               |       | 2/1-22    | 1        | GA, 1.5" suction (OD=76mm) for 4 hole dis. adapter    | 95922001        |              | No                 |
|                   | Volute, option larger suction & discharge      |       | 2/1-22    | 1        | G05/G22, 2" suction (OD=90mm) for 4 hole dis. adapter | 95922000        |              | No                 |
|                   |                                                |       | 2/1-22    | 1        | G8&C/G10/G50/G60, 3" suc. (OD=120), 6 hole dis. adap. | 95922002        |              | No                 |
| 7                 | Coupling Guard                                 |       | 2/1-2     | 2        | NEMA-56C                                              | 96491002        |              | YES                |
|                   |                                                |       | 3-18/17   | 2        | NEMA, 182-215TC (High), 254TC-286TSC                  | 96490656        |              | YES                |
| 7a                | Screw for Coupling Guard                       |       | 2/1-18/17 | 4        | Screw comb. slot torx/straight slot 4 x 8mm           | 96488481        |              | YES                |
| 9                 | Allen Screw                                    |       | 2/1-2     | 4        | M6 x 20mm, Delta/Tone Seal                            | 001D7899        |              | YES                |
|                   |                                                |       | 3-18/17   | 4        | M10 x 25mm, Delta/Tone Seal                           | 001D7901        |              | YES                |
| 10                | Shaft Pin                                      |       | 2/1-22    | 1        | ø5 x 26mm                                             | 310192          | 95061337     | YES                |
| 10a               | Coupling Half (machined set)                   |       | 2/1-2     | 1        | NEMA, 56C, 1/3 - 2HP. ø15.9/ ø16mm                    | 96516777        |              | YES                |
|                   |                                                |       | 3-6       | 1        | NEMA, 182/184TC, 3-5HP. ø28.6/ø16mm (High)            | 96516009        |              | YES                |
|                   |                                                |       | 7-12      | 1        | NEMA, 213TC, 7.5-10HP. ø34.9/ø16mm (High)             | 96516770        |              | YES                |
|                   |                                                |       | 14-18/17  | 1        | NEMA, 254TC, 15-20HP. ø41.2/ø16mm (High)              | 96516771        |              | YES                |
|                   |                                                |       |           | 1        | NEMA, 284/286TSC, 25HP. ø41.2/ø16mm                   | 96516771        |              | YES                |
| 12a               | Discharge Adapter                              |       | 2/1-22    | 1        | GA, 4 hole flange, OD=55mm, ID=26mm (1.0"), L=60mm    | 95922007        |              | No                 |
|                   |                                                |       | 2/1-22    | 1        | G05, 4 hole flange, OD=55mm, ID=26mm (1.0"), L=111mm  | 95922008        |              | No                 |
|                   |                                                |       | 2/1-22    | 1        | G22, 4 hole flange, OD=90mm, ID=50mm (2"), L=85mm     | 95922016        |              | No                 |
|                   | Discharge Adp. option larger suc./dis. & press |       | 2/1-22    | 1        | GB, 6 hole flange, OD=76mm, ID=49mm (1.5"), L=65mm    | 95922009        |              | No                 |
|                   |                                                |       | 2/1-22    | 1        | GC, 6 hole flange, OD=90mm, ID=49mm (2"), L=65mm      | 95922010        |              | No                 |
|                   |                                                |       | 2/1-22    | 1        | G50, 6 hole flange, OD=76mm, ID=41mm (1.5"), L=116mm  | 95922011        |              | No                 |
|                   |                                                |       | 2/1-22    | 1        | G10, 6 hole flange, OD=90mm, ID=50mm (2"), L=110mm    | 95922012        |              | No                 |
|                   |                                                |       | 2/1-22    | 1        | G60, 6 hole flange, OD=90mm, ID=50mm (2"), L=142mm    | 95922013        |              | No                 |
|                   |                                                |       | 2/1-22    | 1        | G20, 6 hole flange, OD=76mm, ID=40mm (1.5"), L=166mm  | 95922014        |              | No                 |
|                   |                                                |       | 2/1-22    | 1        | G30, 6 hole flange, OD=90mm, ID=50mm (2"), L=192mm    | 95922015        |              | No                 |
|                   |                                                |       | 2/1-22    | 1        | G50, 6 hole flange, OD=76mm, ID=47mm (1.5"), L=96mm   | 96834136        |              | No                 |
|                   |                                                |       | 2/1-22    | 1        | G10, 6 hole flange, OD=90mm, ID=56mm (2"), L=90mm     | 96834137        |              | No                 |
|                   |                                                |       | 2/1-22    | 1        | G60, 6 hole, flange, OD=90mm, ID=55mm (2"), L=122mm   | 96834138        |              | No                 |
|                   |                                                |       | 2/1-22    | 1        | G20, 6 hole flange, OD=76mm, ID=46mm (1.5"), L=146mm  | 96834139        |              | No                 |
|                   |                                                |       | 2/1-22    | 1        | G30, 6 hole flange, OD= 90mm, ID= 54mm (2"), L= 72mm  | 96834140        |              | No                 |
|                   |                                                |       | 2/1-22    | 1        | G33, 6 hole flg.OD=120mm, ID= 80mm (3"), L=110mm      | 95922017        |              | No                 |
| 18(a)             | Priming/Vent Plug                              |       | 2/1-22    | 1        | G 1/2A, NV24 with NV9 x M8 stem                       | 405150          | 95061351     | No                 |
| 19                | (Suction) Pressure tap plug                    |       | 2/1-22    | 1        | 1/4" NPT,SS SQHD                                      | 001D7216        |              | No                 |
| 19a               | (Discharge) Pressure tap plug                  |       | 2/1-22    | 1        | 1/4" NPT,SS SQHD                                      | 001D7216        |              | No                 |
| 23, 23c           | Plug                                           |       | 2/1-22    | *        | G 1/2A, NV24, solid                                   | 370025          | 95061733     | No                 |
| 25                | Drain plug                                     |       | 2/1-22    | 1        | 1/4" NPT,SS SQHD                                      | 001D7216        |              | No                 |
| 26                | Staybolt                                       |       | 2/1-2     | 4        | M16 x 116mm                                           | 96922783        |              | No                 |
|                   |                                                |       | 3         | 4        | M16 x 150mm                                           | 96922785        |              | No                 |
|                   |                                                |       | 4         | 4        | M16 x 176mm                                           | 96922787        |              | No                 |
|                   |                                                |       | 5         | 4        | M16 x 211mm                                           | 96922789        |              | No                 |
|                   |                                                |       | 6         | 4        | M16 x 241mm                                           | 96922792        |              | No                 |
|                   |                                                |       | 7         | 4        | M16 x 266mm                                           | 96922793        |              | No                 |
|                   |                                                |       | 8         | 4        | M16 x 296mm                                           | 96922795        |              | No                 |
|                   |                                                |       | 9         | 4        | M16 x 327mm                                           | 350179          |              | No                 |
|                   |                                                |       | 10        | 4        | M16 x 356mm                                           | 290248          |              | No                 |
|                   |                                                |       | 12        | 4        | M16 x 415mm                                           | 370134          |              | No                 |
|                   |                                                |       | 14        | 4        | M16 x 481mm                                           | 96922805        |              | No                 |
|                   |                                                |       | 16        | 4        | M16 x 536mm                                           | 380092          |              | No                 |
|                   |                                                |       | 18/17     | 4        | M16 x 596mm                                           | 96922810        |              | No                 |
|                   |                                                |       | 20        | 4        | M16 x 661mm, 4 pole & 50 Hz.                          | 96922813        |              | No                 |
|                   |                                                |       | 22        | 4        | M16 x 716mm, 4 pole & 50 Hz.                          | 380094          |              | No                 |
|                   | Staybolt (Back-to-Back & Tandem Seal option)   |       | 2/1-2     | 4        | M16 x 211mm                                           | 96922789        |              | No                 |
|                   |                                                |       | 3         | 4        | M16 x 241mm                                           | 96922792        |              | No                 |
|                   |                                                |       | 4         | 4        | M16 x 266mm                                           | 96922793        |              | No                 |
|                   |                                                |       | 5         | 4        | M16 x 296mm                                           | 96922795        |              | No                 |
|                   |                                                |       | 6         | 4        | M16 x 333mm                                           | 370133          |              | No                 |
|                   |                                                |       | 7         | 4        | M16 x 356mm                                           | 290248          |              | No                 |

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|----------|------------------|-------|--------|----------|---------------------|-----------------|--------------|--------------------|
|----------|------------------|-------|--------|----------|---------------------|-----------------|--------------|--------------------|

## PARTS LIST

|       |                                                          |  |            |         |                                                            |          |          |     |
|-------|----------------------------------------------------------|--|------------|---------|------------------------------------------------------------|----------|----------|-----|
| 26    | Staybolt (Back-to-Back & Tandem Seal option) (continued) |  | 8          | 4       | M16 x 386mm                                                | 97525093 |          | No  |
|       |                                                          |  | 9          | 4       | M16 x 415mm                                                | 370134   |          | No  |
|       |                                                          |  | 10         | 4       | M16 x 450mm                                                | 97525096 |          | No  |
|       |                                                          |  | 12         | 4       | M16 x 506mm                                                | 96922806 |          | No  |
|       |                                                          |  | 14         | 4       | M16 x 566mm                                                | 290251   |          | No  |
|       |                                                          |  | 16         | 4       | M16 x 628mm                                                | 380093   |          | No  |
|       |                                                          |  | 18/17      | 4       | M16 x 686mm                                                | 96922814 |          | No  |
| 26a   | Strap                                                    |  | 20: 4 pole | 4       | M16 x 745mm                                                | 370138   |          | No  |
|       |                                                          |  | 22: 4 pole | 4       | M16 x 807mm                                                | 350185   |          | No  |
|       |                                                          |  | 2/1-2      | 2       | L* = 78.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut               | 96487758 |          | No  |
|       |                                                          |  | 3          | 2       | L* = 108.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487760 |          | No  |
|       |                                                          |  | 4          | 2       | L* = 138.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487761 |          | No  |
|       |                                                          |  | 5          | 2       | L* = 168.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487762 |          | No  |
|       |                                                          |  | 6          | 2       | L* = 198.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487764 |          | No  |
|       |                                                          |  | 7          | 2       | L* = 228.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487765 |          | No  |
|       |                                                          |  | 8          | 2       | L* = 258.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487766 |          | No  |
|       |                                                          |  | 9          | 2       | L* = 288.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487768 |          | No  |
|       |                                                          |  | 10         | 2       | L* = 318.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487769 |          | No  |
|       |                                                          |  | 12         | 2       | L* = 378.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487771 |          | No  |
|       |                                                          |  | 14         | 2       | L* = 438.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487773 |          | No  |
|       |                                                          |  | 16         | 2       | L* = 498.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487775 |          | No  |
|       |                                                          |  | 18/17      | 2       | L* = 558.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487777 |          | No  |
|       |                                                          |  | 20: 4 pole | 2       | L* = 618.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487778 |          | No  |
|       |                                                          |  | 22: 4 pole | 2       | L* = 678.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487781 |          | No  |
| 26b   | Bolt for Pos. 26a                                        |  | 2/1-22     | 2       | M8 x 25mm, 316 SS w/Delta/Tone Seal                        | 96416603 |          | No  |
| 26c   | Washer for Pos. 26b                                      |  | 2/1-22     | 2       | A4, ø16.0/ø8.4x1.6mm                                       | 001D3284 |          | No  |
| 28    | Motor Bolt                                               |  | 2/1-2      | 4       | NEMA, 56C, .75 - 2HP, UNC 3/8" x 25mm                      | 001D1839 |          | No  |
|       |                                                          |  | 3-6        | 4       | NEMA, 182/184TC, 3 - 5HP, UNC1/2" x 25mm                   | 001D1840 |          | No  |
|       |                                                          |  | 7-12       | 4       | NEMA, 213TC, 7.5 -10HP, JR 1/2" x 1.25" UNC                | 001D0185 |          | No  |
|       |                                                          |  | 14-18/17   | 4       | NEMA, 254TC, 15HP, 1/2" x 2.5" UNC                         | 96491112 |          | No  |
| 28g   | Bolt for Foot 56a & Volute Pos. 6 (GA, GB, GC)           |  | 2/1-22     | 2       | M12 x 20mm, low hex head, 8.8 Alloy Steel, Delta Tone/Seal | 95922047 |          | No  |
| 35    | Bolt-Foot 56a & Volute Pos. 6 (G05, G10, G22, G50, G60)  |  | 2/1-22     | 2       | M12 x 20mm, 8.8 Alloy Steel, Delta Tone/Seal               | 95922048 |          | No  |
|       |                                                          |  | 2/1-18/17  | 6       | M12 x 22mm Socket Head Cap Screw, Delta Tone/Seal          | 95922049 |          | No  |
|       |                                                          |  | 2/1-18/17  | 4       | M12 x 25mm Socket Head Cap Screw, Delta Tone/Seal          | 95922050 |          | No  |
| 36    | Staybolt Nut                                             |  | 2/1-22     | 4       | 24mm x M16, Delta Tone/Seal                                | 001D7908 |          | No  |
| 37(b) | Sleeve O-ring                                            |  | 2/1-22     | ◆◆      | EPDM, ø170.7 x 3.3mm                                       | 96483101 |          | YES |
|       |                                                          |  | 2/1-22     | ◆◆      | FKM, ø170.7 x 3.3mm                                        | 96483102 |          | YES |
|       |                                                          |  | 2/1-22     | ◆◆      | FKM, ø171.25 x 3.3mm                                       | 96483109 |          | YES |
|       |                                                          |  | 2/1-22     | ◆◆      | FFKM, ø170.7 x 3.3mm                                       | 96483140 |          | YES |
| 39b   | O-ring for Discharge Adapter flange Pos. 12a             |  | 2/1-17     | 1       | EPDM, Parker 2-238 ø88.5 x 3.5mm                           | 95922035 |          | YES |
|       |                                                          |  | 2/1-17     | 1       | FKM, Parker 2-238 ø88.5 x 3.5mm                            | 95922036 |          | YES |
|       |                                                          |  | 2/1-17     | 1       | FKM, Parker 2-238 ø88.5 x 3.5mm                            | 95952037 |          | YES |
|       |                                                          |  | 2/1-17     | 1       | FFKM, Parker 2-238 ø88.5 x 3.5mm                           | 95131207 |          | YES |
| 44a   | Inlet upper with Pos. 45 & 65                            |  | 2/1-22     | 1       |                                                            | 96489070 |          | No  |
| 44c   | Inlet upper N with Pos. 45 & 65 (Low NPSH option)        |  | 2/1-22     | 1       |                                                            | 96489039 |          | No  |
| 44b   | Inlet lower, machined                                    |  | 2/1-22     | 1       |                                                            | 96488000 |          | No  |
| 44d   | Spacer ring N for low NPSH Pos. 44c                      |  | 2/1-22     | 1       |                                                            | 96505491 | 97573624 | No  |
| 45    | Neck Ring                                                |  | 2/1-22     | # imp.- | ø59.5 x ø44.08 x 1.2mm, PTFE-Acoflon 100                   | 96487401 |          | YES |
|       |                                                          |  | 2/1-22     | 1       | ø75.8 x ø59.95 x 1.2mm, PTFE-Acoflon 100                   | 96487400 |          | YES |
| 47a   | Bearing Ring/Spacer                                      |  | 2/1-22     | ^^^^    | SIC 150, ø23.4 x ø17.6 x ø15.0 x 14mm                      | 96763100 |          | YES |
|       |                                                          |  | 2/1-22     | ^^^^    | TC, ø21.9 x ø17.6 x ø15.0 x 14mm                           | 330085   | 95061371 | YES |
| 49    | Impeller                                                 |  | 2/1-22     | # stgs- | ø92.9 x ø44.0 x 13.6mm (back-plate 1.0mm)                  | 96487817 |          | No  |
| 49i   | Impeller N (Low NPSH option)                             |  | 3-22       | 1       | ø104.8 x ø59.85 x 25.4mm (back-plate 1.5mm)                | 96476527 |          | No  |
| 51    | Shaft, Complete                                          |  | 2/1-2      | 1       | ø16 x 179.0mm, 431 SS                                      | 96489224 |          | No  |
|       |                                                          |  | 3          | 1       | ø16 x 209.0mm, 431 SS                                      | 96490794 |          | No  |
|       |                                                          |  | 4          | 1       | ø16 x 239.0mm, 431 SS                                      | 96490796 |          | No  |
|       |                                                          |  | 6          | 1       | ø16 x 299.0mm, 431 SS                                      | 96490872 |          | No  |
|       |                                                          |  | 7          | 1       | ø16 x 329.0mm, 431 SS                                      | 96490874 |          | No  |
|       |                                                          |  | 5          | 1       | ø16 x 269.0mm, 431 SS                                      | 96490870 |          | No  |
|       |                                                          |  | 8          | 1       | ø16 x 359.0mm, 431 SS                                      | 96490878 |          | No  |
|       |                                                          |  | 9          | 1       | ø16 x 389.0mm, 431 SS                                      | 96490880 |          | No  |
|       |                                                          |  | 10         | 1       | ø16 x 419.0mm, 431 SS                                      | 96490882 |          | No  |
|       |                                                          |  | 12         | 1       | ø16 x 479.0mm, 431 SS                                      | 96490886 |          | No  |
|       |                                                          |  | 14         | 1       | ø16 x 539.0mm, 431 SS                                      | 96490890 |          | No  |
|       |                                                          |  | 16         | 1       | ø16 x 599.0mm, 431 SS                                      | 96490894 |          | No  |
|       |                                                          |  | 18/17      | 1       | ø16 x 659.0mm, 431 SS                                      | 96490896 |          | No  |
|       |                                                          |  | 20         | 1       | ø16 x 719.0mm, 431 SS, 4 pole & 50 Hz.                     | 96490898 |          | No  |
|       |                                                          |  | 22         | 1       | ø16 x 779.0mm, 431 SS, 4 pole & 50 Hz.                     | 96490913 |          | No  |
|       |                                                          |  | 2/1-2      | 1       | ø16 x 269.0mm, 329 SS                                      | 96507534 |          | No  |
|       | Shaft, Cpl. (Back-to-Back & Tandem Seal option)          |  | 3          | 1       | ø16 x 299.0mm, 329 SS                                      | 96507538 |          | No  |
|       |                                                          |  | 4          | 1       | ø16 x 329.0mm, 329 SS                                      | 96507539 |          | No  |
|       |                                                          |  | 5          | 1       | ø16 x 359.0mm, 329 SS                                      | 96507571 |          | No  |
|       |                                                          |  | 6          | 1       | ø16 x 389.0mm, 329 SS                                      | 96507572 |          | No  |
|       |                                                          |  | 7          | 1       | ø16 x 419.0mm, 329 SS                                      | 96507573 |          | No  |
|       |                                                          |  | 8          | 1       | ø16 x 449.0mm, 329 SS                                      | 96507575 |          | No  |
|       |                                                          |  | 9          | 1       | ø16 x 479.0mm, 329 SS                                      | 96507576 |          | No  |

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| <b>PARTS LIST</b> |                                                             |         |            |              |                                                   |                 |              |                    |
| 51                | Shaft, Cpl. (Back-to-Back & Tandem Seal option) (continued) |         | 10         | 1            | Ø16 x 509.0mm, 329 SS                             | 96507577        |              | No                 |
|                   |                                                             |         | 12         | 1            | Ø16 x 569.0mm, 329 SS                             | 96507579        |              | No                 |
|                   |                                                             |         | 14         | 1            | Ø16 x 629.0mm, 329 SS                             | 96507581        |              | No                 |
|                   |                                                             |         | 16         | 1            | Ø16 x 689.0mm, 329 SS                             | 96507583        |              | No                 |
|                   |                                                             |         | 18/17      | 1            | Ø16 x 749.0mm, 329 SS                             | 96507584        |              | No                 |
|                   |                                                             |         | 20         | 1            | Ø16 x 809.0mm, 329 SS, 4 pole & 50 Hz.            | 96507585        |              | No                 |
|                   |                                                             |         | 22         | 1            | Ø16 x 869.0mm, 329 SS, 4 pole & 50 Hz.            | 96507587        |              | No                 |
| 55                | Outer Sleeve                                                |         | 2/1-2      | 1            | Ø171.1/ Ø170.7 x 74.0mm x 1.5mm, 304 SS           | 96485420        |              | No                 |
|                   |                                                             |         | 3          | 1            | Ø171.1/ Ø170.7 x 104.0mm x 1.5mm, 304 SS          | 96489762        |              | No                 |
|                   |                                                             |         | 4          | 1            | Ø171.1/ Ø170.7 x 134.0mm x 1.5mm, 304 SS          | 96489763        |              | No                 |
|                   |                                                             |         | 5          | 1            | Ø171.1/ Ø170.7 x 164.0mm x 1.5mm, 304 SS          | 96489765        |              | No                 |
|                   |                                                             |         | 6          | 1            | Ø171.1/ Ø170.7 x 194.0mm x 1.5mm, 304 SS          | 96489766        |              | No                 |
|                   |                                                             |         | 7          | 1            | Ø171.1/ Ø170.7 x 224.0mm x 1.5mm, 304 SS          | 96489838        |              | No                 |
|                   |                                                             |         | 8          | 1            | Ø171.1/ Ø170.7 x 254.0mm x 1.5mm, 304 SS          | 96489768        |              | No                 |
|                   |                                                             |         | 9          | 1            | Ø171.1/ Ø170.7 x 284.0mm x 1.5mm, 304 SS          | 96489769        |              | No                 |
|                   |                                                             |         | 10         | 1            | Ø171.1/ Ø170.7 x 314.0mm x 1.5mm, 304 SS          | 96489770        |              | No                 |
|                   |                                                             |         | 12         | 1            | Ø171.1/ Ø170.7 x 374.0mm x 2.0mm, 316 SS          | 96489829        |              | No                 |
|                   |                                                             |         | 14         | 1            | Ø171.1/ Ø170.7 x 434.0mm x 2.0mm, 316 SS          | 96489830        |              | No                 |
|                   |                                                             |         | 16         | 1            | Ø171.1/ Ø170.7 x 494.0mm x 2.0mm, 316 SS          | 96489832        |              | No                 |
|                   |                                                             |         | 18/17      | 1            | Ø171.1/ Ø170.7 x 554.0mm x 2.0mm, 316 SS          | 96489833        |              | No                 |
|                   |                                                             |         | 20: 4 pole | 1            | Ø171.1/ Ø170.7 x 614.0mm x 2.0mm, 316 SS, 50Hz.   | 96489834        |              | No                 |
|                   |                                                             |         | 22: 4 pole | 1            | Ø171.1/ Ø170.7 x 674.0mm x 2.0mm, 316 SS, 50Hz.   | 96489835        |              | No                 |
| 55b               | Sleeve flange                                               |         | 2/1-22     | 1            | CR-H, CRN-H10, 15, 20, 316 SS                     | 95131164        |              | No                 |
| 56a               | Foot for Pos. 6 (GA, GB, GC)                                |         | 2/1-22     | 1            | H= 21mm, W= 198mm, Ø16mm hole CL 142mm            | 95922023        |              | No                 |
|                   | Foot for Pos. 6 (G05, G10, G22, G50, G60)                   |         | 2/1-22     | 1            | H= 98mm, W= 300mm, Ø16mm hole CL 248mm            | 95922024        |              | No                 |
|                   | Foot for Pos. 6 (C1, G20, G30)                              | 254TC   | 14-18/17   | 1            | H= 142mm, W= 300mm, Ø16mm hole CL 248mm           | 96834143        |              | No                 |
| 56b(d)            | Washer for bolt Pos. 56c                                    |         | 2/1-22     | 16           | M12, 304 SS                                       | 00ID3103        |              | No                 |
| 56c               | Bolt for sleeve flange Pos. 55b                             |         | 2/1-22     | 8            | M12x1.75 x65mm, 12.9 Alloy Steel, Delta Tone/Seal | 95922053        |              | No                 |
| 56e               | Nut for bolt Pos. 56c                                       |         | 2/1-22     | 8            | M12, NV19, 8.8 Steel, Delta Tone/Seal             | 00ID7917        |              | No                 |
| 56f               | Bolt for Pos. 90 (BP139 w/GA, BP245 G05/22)                 | 56/182T | 2/1-6      | 2            | Hex Hd.1/2 -13 UNC x 1" SAE 5, Z.P.               |                 |              | YES                |
|                   | Bolt for Pos. 90 (BP258 G05/22)                             | 254TC   | 14-18/17   | 2            | Hex Hd.1/2 -13 UNC x 1" SAE 5, Z.P.               |                 |              | YES                |
|                   | Bolt for Pos. 90 (BP148 with GA & BP252 G05/22)             | 213TC   | 7-12       | 2            | Hex Head 1/2 -13 UNC x 1.25" SAE 5, Zinc plated   |                 |              | YES                |
|                   | Bolt for Pos. 90 (BP148with GA, Pos.56k & m)                | 254TC   | 14-18/17   | 2            | Hex Head 1/2 -13 UNC x 2.25" SAE 5, Zinc plated   |                 |              | YES                |
| 56g               | Washer for bolt Pos. 56f                                    |         | 2/1-22     | 2            | 1/2" SAE, Zinc plated                             |                 |              | YES                |
| 56k               | Spacer for base Pos. 90                                     | GA      | 14-18/17   | 1            | 148BP 254T, L=200mm x H=25.4mm x W=78.2mm         |                 |              | YES                |
| 56m               | Alignment pin                                               | GA      | 14-18/17   | 2            | Slotted Spring Pin, Ø3/16" x 1" ASME, Zinc plated |                 |              | YES                |
| 60                | Stack Compression Spring                                    |         | 2/1-22     | 4            | Ø11.0 x Ø7.0 x 15.5mm, EPDM                       | 96503070        |              | YES                |
|                   |                                                             |         | 2/1-22     | 4            | Ø11.0 x Ø7.0 x 15.5mm, FKM                        | 96503072        |              | YES                |
| 60a               | Stack Compression Spring (option)                           |         | 2/1-22     | 4            | Ø11.0 x Ø7.0 x 15.5mm, PTFE                       | 96503071        |              | YES                |
| 61                | Stop spacer                                                 |         | 2/1-22     | 1            | Ø22.0 x Ø17.8 x Ø15.11 x 11.8 x 6.8mm             | 96783511        |              | YES                |
| 64                | Spacing Pipe                                                |         | 2/1-22     | 1            | Ø21.5 x Ø17.5 x 29.05mm                           | 331404          | 95061499     | No                 |
| 64a               | Spacing Pipe                                                |         | 2/1&18/17  | 1            | Ø21.5 x Ø17.5 x 9.0mm                             | 96495333        |              | YES                |
| 64b               | Spacing Pipe (Low NPSH option only)                         |         | 2/1&18/17  | 2            | Ø21.5 x Ø17.5 x 10.05mm                           | 331402          | 95061472     | No                 |
| 64c               | Clamp, Splined                                              |         | 2/1-22     | 1            | Ø21.5 x Ø17.6 x Ø15.0 x 12.7mm                    | 96496311        |              | YES                |
| 64d               | Spacing Pipe                                                |         | 2/1-22     | 1            | Ø21.5 x Ø17.5 x 6.0mm                             | 331412          |              | No                 |
| 64e               | Spacing Pipe (Low NPSH option only)                         |         | 2/1-22     | 1            | Ø21.5 x Ø17.5 x 38.0mm                            | 331406          | 95061629     | No                 |
| 64g               | Spacing Pipe (de-staging 2 impellers option only)           |         | 3-22       | 1 per de-stg | Ø21.5 x Ø17.5 x 30.0mm (use with 3b only)         | 331410          |              | No                 |
| 65                | Neck Ring Retainer N                                        |         | 2/1-22     | # stgs-      | Ø61.9 x Ø47.2 x 4.7mm                             | 96487285        |              | Yes                |
|                   | Neck Ring Retainer N (Low NPSH option)                      |         | 2/1-22     | 1            | Ø78.8 x Ø61.5 x 6.7mm                             | 330059          |              | No                 |
| 66                | Lock Washer Set for Shaft                                   |         | 2/1-22     | 1            | Ø13.5 x Ø8.2 x 2.6mm                              | 96417297        |              | YES                |
| 66a               | Washer for Staybolt                                         |         | 2/1-22     | 2            | DIN 125A, Ø30 x Ø17 x 2.5mm, Delta Tone/Seal      | 96430378        |              | No                 |
| 67                | Lock Nut for Shaft                                          |         | 2/1-22     | 1            | 13mm x M8                                         | 96496488        |              | YES                |
| 69                | Spacing Pipe                                                |         | 2/1-22     | 1            | Ø21.5 x Ø17.5 x 18.0mm                            | 96491536        |              | No                 |
| 69a               | Spacing Pipe (de-staging 1 impeller option only)            |         | 2/1&18/17  | 1            | Ø21.5 x Ø17.5 x 19.0mm (use with 3a only)         | 331409          | 95062143     | No                 |
| 72a               | O-ring for Sleeve Flange Pos. 55b                           |         | 2/1-22     | 1            | EPDM, Ø215.5mm                                    | 95922038        |              | YES                |
|                   |                                                             |         | 2/1-22     | 1            | FKM, Ø215.5mm                                     | 95922039        |              | YES                |
|                   |                                                             |         | 2/1-22     | 1            | FFKM, Ø215.5mm                                    | 95131208        |              | YES                |
|                   |                                                             |         | 2/1-22     | 1            | FXM, Ø215.5mm                                     | 95922040        |              | YES                |
| 76                | Nameplate                                                   |         | 2/1-22     | 1            | 304SS, 60 x 45mm                                  | 96563333        |              | No                 |
| 76a               | Rivet for Nameplate                                         |         | 2/1-22     | 2            | 304SS, Ø3 x 5mm                                   | 96022882        |              | No                 |
| 77a               | Pump Head Cover for Tandem Seal & Cool Top®                 |         | 2/1-22     | 1            | Cast Stainless                                    | 96505487        |              | No                 |
|                   | Pump Head Cover for Back-to-Back                            |         | 2/1-22     | 1            | Cast Stainless                                    | 96505488        |              | No                 |
| 79a               | Disc / Plate complete w/79b & c for Cool Top                |         | 2/1-22     | 1            | Cast Stainless                                    | 96511281        |              | No                 |
| 79b               | Bushing for Disc / Plate 79a                                |         | 2/1-22     | 1            | Graflon                                           | 96505571        |              | No                 |
| 79c               | Retaining Ring for 79b                                      |         | 2/1-22     | 1            | Stainless                                         | 96510985        |              | No                 |
| 90                | Main Support Baseplate                                      | GA      | 2/1-5      | 1            | BP. Cpl.139, L=991mm x W=305mm x H=106.5mm        | 96956336        |              | YES                |
|                   |                                                             | GA      | 7-12       | 1            | BP. Cpl.148, L=1219mm x W=381mm x H=107.9mm       | 96956346        |              | YES                |
|                   |                                                             | G05/22  | 2/1-6      | 1            | BP. Cpl.245, L=1143mm x W=305mm x H=106.5mm       | 96956341        |              | YES                |
|                   |                                                             | G05/22  | 7-12       | 1            | BP. Cpl.252, L=1320.8mm x W=381mm x H=107.9mm     | 96956356        |              | YES                |
|                   |                                                             | G05     | 16         | 1            | BP. Cpl.258, L=1473.2mm x W=457.2mm x H=119.1mm   | 96956360        |              | YES                |
|                   |                                                             | G22     | 14-18/17   | 1            | BP. Cpl.258, L=1473.2mm x W=457.2mm x H=119.1mm   | 96956360        |              | YES                |
|                   | Main Support Baseplate - Longer versions                    | GA      | 6          | 1            | XLBP1(139/245), L=1500mm x W=381mm x H=106.5mm    | 96956376        |              | YES                |
|                   |                                                             | GA,G05  | 14-18/17   | 1            | XLBP2(148/252), L=1777.8mm x W=381mm x H=107.9mm  | 96956377        |              | YES                |

Due to part changes over time, all position numbers (1-203) may not be used.

This column indicates which pump model uses the spare part. If blank, the part is used in all models.

B.O.M. Ref. No. is only available if it is not included in a kit or does not have a material number listed. If it is included in a kit (YES), or has a material number, request one of these numbers. If not included in a kit (No), but has a Material Number, use Material Number.

# Parts List & Kits CR10-H

| Pos. No.   | Part Description                                     | Model                    | Stages   | No. Used                                     | Comments/Dimensions                                        | B.O.M. Ref. No.     | Material No. | Included in kits ? |
|------------|------------------------------------------------------|--------------------------|----------|----------------------------------------------|------------------------------------------------------------|---------------------|--------------|--------------------|
| PARTS LIST |                                                      |                          |          |                                              |                                                            |                     |              |                    |
| 90         | Main Support Baseplate - Longer versions (continued) | G22                      | 14-18/17 | 1                                            | XLBP3(258/264),<br>L=2406.4mm x W=457.2mm x H=120mm        | 96956379            |              | YES                |
| 90a        | Bolt for motor to slider Pos. 90b                    | 56C                      | 2/1-2    | 4                                            | Hex Head 5/16 -18 UNC x .75" SAE 5, Zinc plated for GA     |                     |              | YES                |
|            |                                                      | 56/182                   | 2/1-6    | 4                                            | Hex Head 5/16 -18 UNC x .75" SAE 5, Zinc plated for G05/22 |                     |              | YES                |
|            |                                                      | 182TC                    | 3-6      | 4                                            | Hex Head 3/8 -16 UNC x .5" SAE 5, Zinc plated for GA       |                     |              | YES                |
|            |                                                      | 213TC                    | 7-12     | 4                                            | Hex Head 3/8 -16 UNC x 5/8" SAE 5, Zinc plated for GA      |                     |              | YES                |
|            |                                                      | 213TC                    | 7-12     | 4                                            | Hex Head 3/8 -16 UNC x 1" SAE 5, Zinc plated for G05/22    |                     |              | YES                |
|            |                                                      | 254TC                    | 14-18/17 | 4                                            | Hex Head 1/2 -13 UNC x 1.5" SAE 5, Zinc plated for GA      |                     |              | YES                |
|            |                                                      | 254TC                    | 14-18/17 | 4                                            | Hex Head 1/2 -13 UNC x 1.25" SAE 5, Z.P. for G05/22        |                     |              | YES                |
| 90b        | Motor support / slider                               | 56C                      | 2/1-2    | 2                                            | GA,GB,GC, BP139, L=204mm x H=45.5mm x W=25.4mm             | 96956339            |              | YES                |
|            |                                                      | 182TC                    | 3-6      | 2                                            | GA,GB,GC, BP139, L=230mm x H=23mm x W=25.4mm               | 96956338            |              | YES                |
|            |                                                      | 213TC                    | 7-12     | 2                                            | GA,GB,GC, BP148, L=252mm x H=20mm x W=25.4mm               | 96956347            |              | YES                |
|            |                                                      | 254TC                    | 14-18/17 | 2                                            | GA,GB,GC, BP148, L=299mm x H=20.3mm x W=25.4mm             | 96956348            |              | YES                |
|            |                                                      | 56C                      | 2/1-2    | 2                                            | G05, G22, BP245, L=204mm x H=125.5mm x W=25.4mm            | 96956343            |              | YES                |
|            |                                                      | 182TC                    | 3-6      | 2                                            | G05, G22, BP245, L=230mm x H=100mm x W=25.4mm              | 96956342            |              | YES                |
|            |                                                      | 213TC                    | 7-12     | 2                                            | G05, G22, BP252, L=252mm x H=96.5mm x W=25.4mm             | 96956357            |              | YES                |
|            | 254C                                                 | 14-18/17                 | 2        | G05, G22, BP252, L=354mm x H=67mm x W=25.4mm | 96956361                                                   |                     | YES          |                    |
| 90c        | Support Bracket for Pump Cartridge                   | 2/1-22                   |          | 1                                            | 304 SS, H=59mm CL of hole, GA/GB/GC                        | 95131178            |              | No                 |
|            |                                                      | 2/1-22                   |          | 1                                            | 304 SS, H=136mm CL of hole, G05/G10/G22/G50/G60            | 95131180            |              | No                 |
|            |                                                      | 2/1-22                   |          | 1                                            | 304 SS, H=180mm CL of hole, G20/G30                        | 96834148            |              | No                 |
| 90d        | Bolt for motor slider Pos. 90b to base Pos. 90       | 56C                      | 2/1-2    | 4                                            | Hex Head 1/4 -20 UNC x 1" SAE 5, Zinc plated               |                     |              | YES                |
|            |                                                      | 182/213                  | 3-12     | 4                                            | Hex Head 1/4 -20 UNC x 1.75" SAE 5, Zinc plated for GA     |                     |              | YES                |
|            |                                                      | 213-254                  | 7-18/17  | 4                                            | Hex Head 1/4 -20 UNC x 1.75" SAE 5, Z.P. for G05/22        |                     |              | YES                |
|            |                                                      | 254TC                    | 14-18/17 | 4                                            | Hex Head 1/4 -20 UNC x 2.5" SAE 5, Zinc plated for GA      |                     |              | YES                |
|            |                                                      | 182TC                    | 3-6      | 4                                            | Hex Head 1/4 -20 UNC x 2.5" SAE 5, Z.P. for G05/22         |                     |              | YES                |
| 90f        | Washer for motor bolt Pos. 90a to slider Pos. 90b    | 56C                      | 2/1-2    | 4                                            | 5/16"" SAE, Zinc plated                                    |                     |              | YES                |
|            |                                                      | 182/213                  | 3-6      | 4                                            | 3/8" SAE, Zinc plated                                      |                     |              | YES                |
|            |                                                      | 254TC                    | 14-18/17 | 4                                            | 1/2" SAE, Zinc plated                                      |                     |              | YES                |
| 100        | Priming/Vent Plug O-ring                             |                          | 2/1-22   | ■                                            | EPDM, ø16.3 x 2.4mm                                        | 00ID1288            |              | YES                |
| 100(a)     | Priming/Vent Plug O-ring                             |                          | 2/1-22   | ■                                            | FKM, ø16.3 x 2.4mm                                         | 00ID2231            |              | YES                |
|            |                                                      | Priming/Vent Plug O-ring |          | 2/1-22                                       | ■                                                          | FFKM, ø16.3 x 2.4mm | 96428162     | 96587720           |
|            |                                                      |                          |          | 2/1-22                                       | ■                                                          | FKM, ø16.3 x 2.4mm  | 96442869     | 96587721           |
| 105(b)     | Shaft Seal HQBE                                      |                          | 2/1-22   | *                                            | SiC, Carbon with resin-impregnated, EPDM                   | 96484076            |              | YES                |
|            | Shaft Seal HQBV                                      |                          | 2/1-22   | *                                            | SiC, Carbon with resin-impregnated, FKM                    | 96484077            |              | YES                |
|            | Shaft Seal HQQE                                      |                          | 2/1-22   | *                                            | SiC, SiC, EPDM                                             | 96484071            |              | YES                |
|            | Shaft Seal HQQV                                      |                          | 2/1-22   | *                                            | SiC, SiC, FKM                                              | 96484072            |              | YES                |
|            | Shaft Seal HQQF                                      |                          | 2/1-22   | *                                            | SiC, SiC, FKM                                              | 96484075            |              | YES                |
|            | Shaft Seal HQQK                                      |                          | 2/1-22   | *                                            | SiC, SiC, FFKM                                             | 96484074            |              | YES                |
|            | Shaft Seal HUBE                                      |                          | 2/1-22   | *                                            | TC, Carbon with resin-impregnated, EPDM                    | 96483952            |              | YES                |
|            | Shaft Seal HUBV                                      |                          | 2/1-22   | *                                            | TC, Carbon with resin-impregnated, FKM                     | 96483964            |              | YES                |
|            | Shaft Seal HUBF                                      |                          | 2/1-22   | *                                            | TC, Carbon with resin-impregnated, FKM                     | 96483966            |              | YES                |
|            | Shaft Seal HUBK                                      |                          | 2/1-22   | *                                            | TC, Carbon with resin-impregnated, FFKM                    | 96483965            |              | YES                |
|            | Shaft Seal HUUE                                      |                          | 2/1-22   | *                                            | TC, TC, EPDM                                               | 96483967            |              | YES                |
|            | Shaft Seal HUUV                                      |                          | 2/1-22   | *                                            | TC, TC, FKM                                                | 96483968            |              | YES                |
|            | Shaft Seal HUUF                                      |                          | 2/1-22   | *                                            | TC, TC, FKM                                                | 96484070            |              | YES                |
|            | Shaft Seal HUUK                                      |                          | 2/1-22   | *                                            | TC, TC, FFKM                                               | 96483969            |              | YES                |
| 117        | Pipe for Air Vent 118                                |                          | 2/1-22   | 1                                            | G1/2, 316SS                                                | 96525189            |              | YES                |
| 117a       | Counter Nut for Pipe 117                             |                          | 2/1-22   | 2                                            | NV24, internal G1/2, 316SS                                 | 96506709            |              | YES                |
| 118        | Air Vent                                             |                          | 2/1-22   | 1                                            | Air vent type 1511-AV - 5/6430                             | 96427483            |              | YES                |
| 201        | Flange, Suction                                      |                          | 2/1-10   | 1                                            | 1.5" 150#, 4 x 1/2"-13 UNC threaded flange, e-coat         | 96922828            |              | No                 |
|            |                                                      |                          | 2/1-10   | 1                                            | 2" 150#, 4 x 5/8"-11 UNC threaded flange, e-coat           | 96922829            |              | No                 |
|            |                                                      |                          | 2/1-10   | 1                                            | 3" 150#, 8 x non thread flange, electrocoated              | 350085              |              | No                 |
|            |                                                      |                          | 12-22    | 1                                            | 1.5" 300#, 4 x 3/4"-10 UNC threaded flange, e-coat         | 96956145            |              | No                 |
|            |                                                      |                          | 12-22    | 1                                            | 2" 300#, 8 x 5/8"-11 UNC threaded flange, e-coat           | 96956146            |              | No                 |
|            |                                                      |                          | 12-22    | 1                                            | 3" 300#, 8 x 3/4"-10 UNC threaded flange, e-coat           | 96956147            |              | No                 |
|            |                                                      |                          | 12-22    | 1                                            | 1" 150#, 4 x 1/2"-13 UNC threaded flange, e-coat           | 96922827            |              | No                 |
| 201a       | Flange, Discharge                                    |                          | 2/1-10   | 1                                            | 1.5" 150#, 4 x 1/2"-13 UNC threaded flange, e-coat         | 96922828            |              | No                 |
|            |                                                      |                          | 2/1-10   | 1                                            | 2" 150#, 4 x 5/8"-11 UNC threaded flange, e-coat           | 96922829            |              | No                 |
|            |                                                      |                          | 2/1-10   | 1                                            | 1" 300#, 4 x 5/8"-11 UNC threaded flange, e-coat           | 96956144            |              | No                 |
|            |                                                      |                          | 12-22    | 1                                            | 1.5" 300#, 4 x 3/4"-10 UNC threaded flange, e-coat         | 96956145            |              | No                 |
|            |                                                      |                          | 12-22    | 1                                            | 2" 300#, 8 x 5/8"-11 UNC threaded flange, e-coat           | 96956146            |              | No                 |
|            |                                                      |                          | 12-22    | 1                                            | 3" 300#, 8 x 3/4"-10 UNC threaded flange, e-coat           | 96956147            |              | No                 |
| 203        | Retaining ring for 201, 1.5" flange                  |                          | 2/1-22   | 1                                            | ø72.6mm x 5mm                                              | 96475395            | 96547671     | No                 |
|            |                                                      |                          | 2/1-22   | 1                                            | ø86.6mm x 5mm                                              | 96475396            |              | No                 |
|            |                                                      |                          | 2/1-22   | 1                                            | ø121mm x 6mm                                               | 350009              |              | No                 |
| 203a       | Retaining ring for 201a, 1.0" flange                 |                          | 2/1-22   | 1                                            | ø53.6mm x 3.2mm                                            | 96439718            |              | No                 |
|            |                                                      |                          | 2/1-22   | 1                                            | ø72.6mm x 5mm                                              | 96475395            | 96547671     | No                 |
|            |                                                      |                          | 2/1-22   | 1                                            | ø86.6mm x 5mm                                              | 96475396            |              | No                 |
|            |                                                      |                          | 2/1-22   | 1                                            | ø121mm x 6mm                                               | 350009              |              | No                 |

## NOTES:

The first number is the total number of impellers. There are a few exceptions to this format:

**Example:** A CR10-1 is actually a CR10-2/1. It has 2 chambers, 1 impeller (de-staged by 1), and uses a 2 stage shaft.

**Example:** A CR10-17 is actually a CR10-18/17. It has 18 chambers, 17 impellers (de-staged by 1), and uses an 18 stage shaft.

### Exception to the above: Low NPSH models:

Low NPSH CR10s have one less impeller and chamber than what is listed on the nameplate.

**Example:** An LNPSH CR10-3 is actually a CR10-3/2. It has 3 chambers, 2 impellers, and uses a 4 stage shaft.

**Example:** An LNPSH CR10-22 is actually a CR10-21. It has 21 chambers, 21 impellers, and uses a 22 stage shaft.

YES\* If the YES is followed by an asterisk, the part in kit is made of upgraded material (example 304 SS changed to 316 SS for Pos. 4a).

\* 1 2 to 16 and 18 to 22 stage use Pos. 3  
2 /1 and 18/17 stage use Pos. 3a  
De-staging by two impellers use one 3a and one 3b

^^^ 2/1 and 2 stage use 0  
3 to 8 stage = # of stages less 2  
9 to 14 stage = # of stages less 3  
16 to 22 stage = # of stages less 4

### Exception to the above: Low NPSH models

4/2 and 4/3 stage use 0  
5/4 to 8/7 stage = # of stages less 4  
9/8 to 16/15 stage = # of stages less 5  
18/16 to 22/21 stage = # of stages less 6  
De-staging by two impellers use 1 less than stated above.

^^^^ 2/1 to 8 stage = use 1  
9 to 14 stage = use 2  
16 to 22 stage = use 3

### Exception to the above: Low NPSH models

16/15 stage = use 2  
18 stage and up = use 3

\* Standard use 1. Back-to-Back or Tandem pump version use 2  
\*\* Standard use 1. Back-to-Back or Tandem pump version use 4

⊖ Standard use 1. CR(I,N)10-2/1 and 10-18/17 replace with Pos. 69a

# stgs Use the number of stages in standard models, less one in de-staged and Low NPSH models.

# imp. Use the number of stages in standard models, less one in de-staged and Low NPSH models.

◆◆ Standard use 2. Back-to-Back or Tandem pump version use 3, Cool Top use 1 EPDM or FKM and 2 FXM in lower hot section of pump.

L\* A tip-to-tip length which includes the bends for slot engagement. Bottom tip to bend is 4.5mm shorter than the tip-to-tip value.

## Key to Symbols

|      |       |                                                                                         |
|------|-------|-----------------------------------------------------------------------------------------|
| KITS | ..... | Recommended spare part                                                                  |
| Ø    | ..... | Diameter                                                                                |
| ANSI | ..... | American National Standards Institute                                                   |
| CPL  | ..... | Complete Assembly – these parts consist of more than one component                      |
| EPDM | ..... | Ethylene Propylene (also known as EPR and EPT) – an elastic substance similar to rubber |
| FFKM | ..... | Kalrez Elastomer made by DuPont                                                         |
| FKM  | ..... | Fluoro Elastomer (generic for Viton)                                                    |
| FXM  | ..... | Fluoraz Elastomer made by Greene Tweed                                                  |
| IEC  | ..... | International Electro-technical Commission (European standards)                         |
| M    | ..... | International standard thread size designation (thread diameter in mm)                  |
| mm   | ..... | Millimeter                                                                              |
| MG   | ..... | Identifies Grundfos motor type/size                                                     |
| N    | ..... | Stamp code for 316 SS or similar                                                        |
| NBR  | ..... | Buna - N (also known as Nitrile) – an elastic substance similar to rubber               |
| NEMA | ..... | National Electrical Manufacturers Association                                           |
| NPSH | ..... | Net Positive Suction Head                                                               |
| PTFE | ..... | Teflon                                                                                  |
| SiC  | ..... | Silicon Carbide                                                                         |
| SS   | ..... | Stainless Steel                                                                         |
| TC   | ..... | Tungsten Carbide                                                                        |
| UNC  | ..... | Unified National Coarse – a standard for threads on bolts                               |

# Spare Part Kits CR10-H

## SPARE PART KITS

Since certain pump parts can be expected to exhibit wear at the same time as related pump parts, they have been grouped into the following kits for your convenience. The numbers indicate the quantity of the part within each kit. Please order these kits using the kit material number at the top of the columns.

| CR(I, N)10 SiC Bearing |                                                                                                    |                  |                           |    |    |
|------------------------|----------------------------------------------------------------------------------------------------|------------------|---------------------------|----|----|
| WEAR PARTS KIT 1-8     |                                                                                                    | Kit No. 96511889 |                           |    |    |
| WEAR PARTS KIT 9-14    |                                                                                                    | Kit No. 96511922 |                           |    |    |
| WEAR PARTS KIT 15-22   |                                                                                                    | Kit No. 96511925 |                           |    |    |
| Pos. No.               | Description                                                                                        | Material No.     | Qty. Included in each Kit |    |    |
| 4a                     | Chamber N Cpl. w/Pos.45 & 65 & SiC Bearing                                                         | 96747281         | 1                         | 2  | 3  |
| 26b                    | Bolt for strap, M8 x 25mm, 316 SS w/Delta Seal                                                     | 96416603         | 2                         | 2  | 2  |
| 26c                    | Washer for strap, A4, $\phi 16.0/\phi 8.4 \times 1.6$ mm                                           | 00ID3284         | 2                         | 2  | 2  |
| 45                     | Neck Ring, $\phi 59.5 \times \phi 44.08 \times 1.2$ mm, PTFE-Acoflon 100                           | 96487401         | 7                         | 12 | 19 |
| 47a                    | Bearing Ring/Spacer, SiC 150, $\phi 23.4 \times 14$ mm                                             | 96763100         | 1                         | 2  | 3  |
| 61                     | Stop Spacer, $\phi 29.0 \times \phi 18.4 \times \phi 17.6 \times \phi 15.0 \times 9.5 \times 2$ mm | 330072           | 1                         | 1  | 1  |
| 62                     | Stop Ring, $\phi 16.6 \times \phi 15.0 \times 1.6$ mm                                              | 330057           | 1                         | 1  | 1  |
| 64a                    | Spacing Pipe, $\phi 21.5 \times \phi 17.5 \times 9.0$ mm                                           | 96495333         | 1                         | 2  | 3  |
| 64c                    | Clamp, Splined, $\phi 21.5 \times \phi 17.6 \times \phi 15.0 \times 12.7$ mm                       | 96496311         | 1                         | 1  | 1  |
| 64d                    | Spacing Pipe, $\phi 21.5 \times \phi 17.5 \times 6.0$ mm                                           | 331412           | 1                         | 2  | 3  |
| 65                     | Neck Ring Retainer, N, $\phi 61.9 \times \phi 47.2 \times 4.7$ mm                                  | 96487285         | 7                         | 12 | 19 |
| 66                     | Lock Washer Set of 2, $\phi 13.5 \times \phi 8.2 \times 2.6$ mm                                    | 96417297         | 1                         | 1  | 1  |
| 67                     | Lock Nut, 13mm x M8                                                                                | 96496488         | 1                         | 1  | 1  |

| CR(I, N)10 Graflon Bearing |                                                                                                    |                  |                           |    |    |
|----------------------------|----------------------------------------------------------------------------------------------------|------------------|---------------------------|----|----|
| WEAR PARTS KIT 1-8         |                                                                                                    | Kit No. 96511921 |                           |    |    |
| WEAR PARTS KIT 9-14        |                                                                                                    | Kit No. 96511924 |                           |    |    |
| WEAR PARTS KIT 15-22       |                                                                                                    | Kit No. 96511927 |                           |    |    |
| Pos. No.                   | Description                                                                                        | Material No.     | Qty. Included in each Kit |    |    |
| 4a                         | Chamber N Cpl. w/Pos.45 & 65 & Graflon Bearing                                                     | 96492496         | 1                         | 2  | 3  |
| 26b                        | Bolt for strap, M8 x 25mm, 316 SS w/Delta Seal                                                     | 96416603         | 2                         | 2  | 2  |
| 26c                        | Washer for strap, A4, $\phi 16.0/\phi 8.4 \times 1.6$ mm                                           | 00ID3284         | 2                         | 2  | 2  |
| 45                         | Neck Ring, $\phi 59.5 \times \phi 44.08 \times 1.2$ mm, PTFE-Acoflon 100                           | 96487401         | 7                         | 12 | 19 |
| 47a                        | Bearing Ring/Spacer, TC 150, $\phi 21.9 \times 14$ mm                                              | 330085           | 1                         | 2  | 3  |
| 61                         | Stop Spacer, $\phi 29.0 \times \phi 18.4 \times \phi 17.6 \times \phi 15.0 \times 9.5 \times 2$ mm | 330072           | 1                         | 1  | 1  |
| 62                         | Stop Ring, $\phi 16.6 \times \phi 15.0 \times 1.6$ mm                                              | 330057           | 1                         | 1  | 1  |
| 64a                        | Spacing Pipe, $\phi 21.5 \times \phi 17.5 \times 9.0$ mm                                           | 96495333         | 1                         | 2  | 3  |
| 64c                        | Clamp, Splined, $\phi 21.5 \times \phi 17.6 \times \phi 15.0 \times 12.7$ mm                       | 96496311         | 1                         | 1  | 1  |
| 64d                        | Spacing Pipe, $\phi 21.5 \times \phi 17.5 \times 6.0$ mm                                           | 331412           | 1                         | 2  | 3  |
| 65                         | Neck Ring Retainer, N, $\phi 61.9 \times \phi 47.2 \times 4.7$ mm                                  | 96487285         | 7                         | 12 | 19 |
| 66                         | Lock Washer Set of 2, $\phi 13.5 \times \phi 8.2 \times 2.6$ mm                                    | 96417297         | 1                         | 1  | 1  |
| 67                         | Lock Nut, 13mm x M8                                                                                | 96496488         | 1                         | 1  | 1  |

| CR(I)10 Bronze Bearing |                                                                                                    |                  |                           |    |    |
|------------------------|----------------------------------------------------------------------------------------------------|------------------|---------------------------|----|----|
| WEAR PARTS KIT 1-8     |                                                                                                    | Kit No. 96511920 |                           |    |    |
| WEAR PARTS KIT 9-14    |                                                                                                    | Kit No. 96511923 |                           |    |    |
| WEAR PARTS KIT 15-22   |                                                                                                    | Kit No. 96511926 |                           |    |    |
| Pos. No.               | Description                                                                                        | Material No.     | Qty. Included in each Kit |    |    |
| 4a                     | Chamber N Cpl. w/Pos.45 & 65 & Bronze Bearing                                                      | 96492498         | 1                         | 2  | 3  |
| 26b                    | Bolt for strap, M8 x 25mm, 316 SS w/Delta Seal                                                     | 96416603         | 2                         | 2  | 2  |
| 26c                    | Washer for strap, A4, $\phi 16.0/\phi 8.4 \times 1.6$ mm                                           | 00ID3284         | 2                         | 2  | 2  |
| 45                     | Neck Ring, $\phi 59.5 \times \phi 44.08 \times 1.2$ mm, PTFE-Acoflon 100                           | 96487401         | 7                         | 12 | 19 |
| 47a                    | Bearing Ring/Spacer, TC 150, $\phi 21.9 \times 14$ mm                                              | 330085           | 1                         | 2  | 3  |
| 61                     | Stop Spacer, $\phi 29.0 \times \phi 18.4 \times \phi 17.6 \times \phi 15.0 \times 9.5 \times 2$ mm | 330072           | 1                         | 1  | 1  |
| 62                     | Stop Ring, $\phi 16.6 \times \phi 15.0 \times 1.6$ mm                                              | 330057           | 1                         | 1  | 1  |
| 64a                    | Spacing Pipe, $\phi 21.5 \times \phi 17.5 \times 9.0$ mm                                           | 96495333         | 1                         | 2  | 3  |
| 64c                    | Clamp, Splined, $\phi 21.5 \times \phi 17.6 \times \phi 15.0 \times 12.7$ mm                       | 96496311         | 1                         | 1  | 1  |
| 64d                    | Spacing Pipe, $\phi 21.5 \times \phi 17.5 \times 6.0$ mm                                           | 331412           | 1                         | 2  | 3  |
| 65                     | Neck Ring Retainer, N, $\phi 61.9 \times \phi 47.2 \times 4.7$ mm                                  | 96487285         | 7                         | 12 | 19 |
| 66                     | Lock Washer Set of 2, $\phi 13.5 \times \phi 8.2 \times 2.6$ mm                                    | 96417297         | 1                         | 1  | 1  |
| 67                     | Lock Nut, 13mm x M8                                                                                | 96496488         | 1                         | 1  | 1  |

| HQxx SHAFT SEAL KIT, BALANCED CARTRIDGE               |                                      |                  |                           |   |   |   |   |   |
|-------------------------------------------------------|--------------------------------------|------------------|---------------------------|---|---|---|---|---|
| (Maximum allowed working PSI is 435)                  |                                      | Kit No. 96511848 |                           |   |   |   |   |   |
| (Tandem Seal option Pumps require 2 of each Seal Kit) |                                      | Kit No. 96511849 |                           |   |   |   |   |   |
|                                                       |                                      | Kit No. 96511844 |                           |   |   |   |   |   |
|                                                       |                                      | Kit No. 96511847 |                           |   |   |   |   |   |
|                                                       |                                      | Kit No. 96511846 |                           |   |   |   |   |   |
|                                                       |                                      | Kit No. 96511845 |                           |   |   |   |   |   |
| Pos. No.                                              | Description                          | Material No.     | Qty. Included in each Kit |   |   |   |   |   |
| 105                                                   | HQBE                                 | 96484076*        | 1                         |   |   |   |   |   |
|                                                       | HQBV                                 | 96484077*        |                           | 1 |   |   |   |   |
|                                                       | HQQE                                 | 96484071*        |                           |   | 1 |   |   |   |
|                                                       | HQQF                                 | 96484075*        |                           |   |   | 1 |   |   |
|                                                       | HQQK                                 | 96484074*        |                           |   |   |   | 1 |   |
|                                                       | HQQV                                 | 96484072*        |                           |   |   |   |   | 1 |
| N/A                                                   | Grinding Device Tool for Emery Cloth | 370711           | 1                         | 1 | 1 | 1 | 1 | 1 |
| N/A                                                   | Emery Cloth                          | 370712           | 1                         | 1 | 1 | 1 | 1 | 1 |

\* Seal material number includes the Adjusting fork 96483950.

| STACK KITS (SiC) Pos. 80 |              |
|--------------------------|--------------|
| Model                    | Material No. |
| CR10-2/1                 | 96491694     |
| CR10-2                   | 96491695     |
| CR10-3                   | 96491696     |
| CR10-4                   | 96491697     |
| CR10-5                   | 96491698     |
| CR10-6                   | 96491699     |
| CR10-7                   | 96491700     |
| CR10-8                   | 96491701     |
| CR10-9                   | 96491702     |
| CR10-10                  | 96491703     |
| CR10-12                  | 96491704     |
| CR10-14                  | 96491705     |
| CR10-16                  | 96491706     |
| CR10-18/17               | 96529404     |
| CR10-18                  | 96491707     |
| CR10-20                  | 96491708     |
| CR10-22                  | 96491709     |

\*\*\*For 4 pole & 50 Hz. operation only.

## SPARE PART KITS (Continued)

| <b>HUXx SHAFT SEAL KIT, BALANCED CARTRIDGE</b><br>(Maximum allowed working PSI is 435)<br>(Tandem Seal option Pumps require 2 of each Seal Kit) |                                      | Kit No.      | 96511836                  |          |          |          |          |          |          |          |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------|---------------------------|----------|----------|----------|----------|----------|----------|----------|---|
|                                                                                                                                                 |                                      | Kit No.      |                           | 96511839 |          |          |          |          |          |          |   |
|                                                                                                                                                 |                                      | Kit No.      |                           |          | 96511838 |          |          |          |          |          |   |
|                                                                                                                                                 |                                      | Kit No.      |                           |          |          | 96511837 |          |          |          |          |   |
|                                                                                                                                                 |                                      | Kit No.      |                           |          |          |          | 96511840 |          |          |          |   |
|                                                                                                                                                 |                                      | Kit No.      |                           |          |          |          |          | 96511843 |          |          |   |
|                                                                                                                                                 |                                      | Kit No.      |                           |          |          |          |          |          | 96511842 |          |   |
|                                                                                                                                                 |                                      | Kit No.      |                           |          |          |          |          |          |          | 96511841 |   |
| Pos. No.                                                                                                                                        | Description                          | Material No. | Qty. Included in each Kit |          |          |          |          |          |          |          |   |
| 105                                                                                                                                             | HUBE                                 | 96483952*    | 1                         |          |          |          |          |          |          |          |   |
|                                                                                                                                                 | HUBF                                 | 96483966*    |                           | 1        |          |          |          |          |          |          |   |
|                                                                                                                                                 | HUBK                                 | 96483965*    |                           |          | 1        |          |          |          |          |          |   |
|                                                                                                                                                 | HUBV                                 | 96483964*    |                           |          |          | 1        |          |          |          |          |   |
|                                                                                                                                                 | HUUE                                 | 96483967*    |                           |          |          |          | 1        |          |          |          |   |
|                                                                                                                                                 | HUUF                                 | 96484070*    |                           |          |          |          |          | 1        |          |          |   |
|                                                                                                                                                 | HUUK                                 | 96483969*    |                           |          |          |          |          |          | 1        |          |   |
|                                                                                                                                                 | HUUV                                 | 96483968*    |                           |          |          |          |          |          |          | 1        |   |
| N/A                                                                                                                                             | Grinding Device Tool for Emery Cloth | 370711       | 1                         | 1        | 1        | 1        | 1        | 1        | 1        | 1        | 1 |
| N/A                                                                                                                                             | Emery Cloth                          | 370712       | 1                         | 1        | 1        | 1        | 1        | 1        | 1        | 1        | 1 |

\* Seal material number includes the Adjusting fork 96483950.

## Standard CR Gasket Kits

| <b>GASKET KIT (EPDM)</b>                          |                                                                            | Kit No.      | 96509609                  |          |          |          |          |          |          |          |          |
|---------------------------------------------------|----------------------------------------------------------------------------|--------------|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>GASKET KIT (FKM)</b>                           |                                                                            | Kit No.      |                           | 96509610 |          |          |          |          |          |          |          |
| <b>GASKET KIT (FFKM)</b>                          |                                                                            | Kit No.      |                           |          | 96534871 |          |          |          |          |          |          |
| <b>GASKET KIT (FFKM)</b>                          |                                                                            | Kit No.      |                           |          |          | 96533374 |          |          |          |          |          |
| <b>GASKET KIT (EPDM)-Double Seal option.</b>      |                                                                            | Kit No.      |                           |          |          |          | 96525433 |          |          |          |          |
| <b>GASKET KIT (FKM)-Double Seal option.</b>       |                                                                            | Kit No.      |                           |          |          |          |          | 96525434 |          |          |          |
| <b>GASKET KIT (FFKM/EPDM)-Double Seal option.</b> |                                                                            | Kit No.      |                           |          |          |          |          |          | 96525435 |          |          |
| <b>GASKET KIT (FFKM/FFKM)-Double Seal option.</b> |                                                                            | Kit No.      |                           |          |          |          |          |          |          | 96525436 |          |
| <b>GASKET KIT (FKM/EPDM)-Cool Top option.</b>     |                                                                            | Kit No.      |                           |          |          |          |          |          |          |          | 96525432 |
| Pos. No.                                          | Description                                                                | Material No. | Qty. Included in each Kit |          |          |          |          |          |          |          |          |
| 37                                                | Sleeve O-ring, EPDM (WRC NSF), $\phi 170.7 \times 3.3$ mm                  | 96483101     | 2                         |          |          |          | 3        |          | 1        |          | 1        |
|                                                   | Sleeve O-ring, FKM, $\phi 170.7 \times 3.3$ mm                             | 96483102     |                           | 2        |          |          |          | 3        |          | 1        |          |
| 37b                                               | Sleeve O-ring, FKM, $\phi 171.25 \times 3.3$ mm                            | 96483109     |                           |          | 2        |          |          |          |          |          | 2        |
|                                                   | Sleeve O-ring, FFKM, $\phi 170.7 \times 3.3$ mm                            | 96483140     |                           |          |          | 2        |          |          | 2        | 2        |          |
| 37c                                               | Disc Plate O-ring, EPDM, $\phi 155.0 \times 3.0$ mm                        | 96509703     |                           |          |          |          |          |          |          |          | 1        |
|                                                   | Disc Plate O-ring, FKM, $\phi 155.0 \times 3.0$ mm                         | 96480168     |                           |          |          |          |          |          |          |          |          |
| 38, 100(a,b)                                      | Drain Plug O-ring, EPDM, $\phi 16.3 \times 2.4$ mm                         | 00ID1288     | 3                         |          |          |          | 7        |          | 4        |          | 1        |
|                                                   | Drain Plug O-ring, FKM, $\phi 16.3 \times 2.4$ mm                          | 00ID2231     |                           | 3        |          |          |          | 7        |          | 4        |          |
|                                                   | Drain Plug O-ring, FKM, $\phi 16.3 \times 2.4$ mm                          | 96442869     |                           |          | 3        |          |          |          |          |          | 3        |
|                                                   | Drain Plug O-ring, FFKM, $\phi 16.3 \times 2.4$ mm                         | 96428162     |                           |          |          | 3        |          |          | 3        | 3        |          |
| 38a                                               | Drain Plug O-ring, EPDM, $\phi 5.3 \times 2.4$ mm                          | 00ID2142     | 1                         |          |          |          | 1        |          |          |          |          |
|                                                   | Drain Plug O-ring, FKM, $\phi 5.3 \times 2.4$ mm                           | 00ID3945     |                           |          |          |          |          | 1        |          |          |          |
|                                                   | Drain Plug O-ring, FKM, $\phi 5.3 \times 2.4$ mm                           | 96511292     |                           |          | 1        |          |          |          |          |          | 1        |
|                                                   | Drain Plug O-ring, FFKM, $\phi 5.3 \times 2.4$ mm                          | 96511293     |                           |          |          | 1        |          |          | 1        | 1        |          |
| 39                                                | Flange O-ring, EPDM, $\phi 90 \times 3$ mm                                 | 96496200     | 2                         |          |          |          | 2        |          |          |          |          |
|                                                   | Flange O-ring, FKM, $\phi 90 \times 3$ mm                                  | 00ID2856     |                           | 2        |          |          |          | 2        |          |          |          |
|                                                   | Flange gasket, Fiber, 122mm x $\phi 60 \times \phi 44 \times 2$ mm         | 420039       | 2                         | 2        | 2        | 2        | 2        | 2        | 2        | 2        | 2        |
|                                                   | Flange gasket, Fiber, $\phi 102 \times \phi 65 \times 2$ mm                | 330035       | 2                         | 2        | 2        | 2        | 2        | 2        | 2        | 2        | 2        |
|                                                   | Flange gasket, Fiber, $\phi 92 \times \phi 49 \times 2$ mm                 | 00ID2582     | 2                         | 2        | 2        | 2        | 2        | 2        | 2        | 2        | 2        |
| 60(a)                                             | Stack Compression Spring, EPDM, $\phi 11.0 \times \phi 7.0 \times 15.5$ mm | 96503070     | 4                         |          |          |          | 4        |          |          |          | 4        |
|                                                   | Stack Compression Spring, FKM, $\phi 11.0 \times \phi 7.0 \times 15.5$ mm  | 96503072     |                           | 4        |          |          |          | 4        |          |          |          |
|                                                   | Stack Compression Spring, PTFE, $\phi 11.0 \times \phi 7.0 \times 15.5$ mm | 96503071     |                           |          | 4        | 4        |          |          | 4        | 4        | 4        |
| 109a                                              | Disc Plate O-ring, EPDM, $\phi 27.5 \times 2.75$ mm                        | 96483103     |                           |          |          |          |          |          |          |          |          |
|                                                   | Disc Plate O-ring, FKM, $\phi 27.5 \times 2.75$ mm                         | 96483104     |                           |          |          |          |          |          |          |          |          |
|                                                   | Disc Plate O-ring, FFKM, $\phi 27.5 \times 2.75$ mm                        | 96483141     |                           |          |          |          |          |          |          |          | 1        |

## Add to above standard gaskets to complete desired CRH, CRNH model

| <b>Kit, O-ring EPDM CR-H, CRN-H10/15/20/32 GA/G05/G22</b> |                                                     | Kit No.      | 96922800                  |          |          |          |          |          |          |          |   |
|-----------------------------------------------------------|-----------------------------------------------------|--------------|---------------------------|----------|----------|----------|----------|----------|----------|----------|---|
| <b>Kit, O-ring FKM CR-H, CRN-H10/15/20/32 GA/G05/G22</b>  |                                                     | Kit No.      |                           | 96922802 |          |          |          |          |          |          |   |
| <b>Kit, O-ring FFKM CR-H, CRN-H10/15/20/32 GA/G05/G22</b> |                                                     | Kit No.      |                           |          | 96922816 |          |          |          |          |          |   |
| <b>Kit, O-ring EPDM CR-H, CRN-H10/15/20/32 GB-G60</b>     |                                                     | Kit No.      |                           |          |          | 96922822 |          |          |          |          |   |
| <b>Kit, O-ring FKM CR-H, CRN-H10/15/20/32 GB-G60</b>      |                                                     | Kit No.      |                           |          |          |          | 96956134 |          |          |          |   |
| <b>Kit, O-ring FFKM CR-H, CRN-H10/15/20/32 GB-G60</b>     |                                                     | Kit No.      |                           |          |          |          |          | 96956135 |          |          |   |
| <b>Kit, O-ring EPDM CR-H, CRN-H10/15/20/32 GB-G60</b>     |                                                     | Kit No.      |                           |          |          |          |          |          | 96923565 |          |   |
| <b>Kit, O-ring FFKM CR-H, CRN-H10/15/20/32 GB-G60</b>     |                                                     | Kit No.      |                           |          |          |          |          |          |          | 96923571 |   |
| Pos. No.                                                  | Description                                         | Material No. | Qty. Included in each Kit |          |          |          |          |          |          |          |   |
| 72a                                                       | O-ring, 2-268 EPDM $\phi 215.5 \times 3.5$ mm       | 95922038     | 1                         |          |          |          | 1        |          |          |          |   |
|                                                           | O-ring, 2-268 Viton $\phi 215.5 \times 3.5$ mm      | 95922039     |                           | 1        |          |          |          | 1        |          |          |   |
|                                                           | O-ring, 2-268 Fluoraz $\phi 215.5 \times 3.5$ mm    | 95922040     |                           |          | 1        |          |          |          | 1        |          |   |
|                                                           | O-ring, 2-268 FFKM $\phi 215.5 \times 3.5$ mm       | 95131208     |                           |          |          | 1        |          |          |          |          | 1 |
| 39b                                                       | O-ring, 2-230 EPDM $\phi 63.1 \times 3.5$ mm        | 95922032     | 1                         |          |          |          |          |          |          |          |   |
|                                                           | O-ring, 2-230 Viton $\phi 63.1 \times 3.5$ mm       | 95922033     |                           | 1        |          |          |          |          |          |          |   |
|                                                           | O-ring, 2-230 Fluoraz $\phi 63.1 \times 3.5$ mm     | 95922034     |                           |          | 1        |          |          |          |          |          |   |
|                                                           | O-ring, 2-230 FFKM $\phi 63.1 \times 3.5$ mm        | 95131189     |                           |          |          | 1        |          |          |          |          |   |
|                                                           | O-ring, Parker 2-238 EPDM $\phi 88.5 \times 3.5$ mm | 95922035     |                           |          |          |          | 1        |          |          |          |   |
|                                                           | O-ring, 2-238 Viton $\phi 88.5 \times 3.5$ mm       | 95922036     |                           |          |          |          |          | 1        |          |          |   |
|                                                           | O-ring, 2-238 Fluoraz $\phi 88.5 \times 3.5$ mm     | 95952037     |                           |          |          |          |          |          | 1        |          |   |
|                                                           | O-ring, 2-238 FFKM $\phi 88.5 \times 3.5$ mm        | 95131207     |                           |          |          |          |          |          |          |          | 1 |

## NEMA COUPLING KIT

| <b><math>\phi 15.9/\phi 16</math></b>        |                                                                | Kit No.      | 96511353                  |          |          |          |  |  |   |   |  |
|----------------------------------------------|----------------------------------------------------------------|--------------|---------------------------|----------|----------|----------|--|--|---|---|--|
| <b><math>\phi 28.5/\phi 16</math> (High)</b> |                                                                | Kit No.      |                           | 96753660 |          |          |  |  |   |   |  |
| <b><math>\phi 34.9/\phi 16</math> (High)</b> |                                                                | Kit No.      |                           |          | 96753661 |          |  |  |   |   |  |
| <b><math>\phi 41.3/\phi 16</math></b>        |                                                                | Kit No.      |                           |          |          | 96511356 |  |  |   |   |  |
| Pos. No.                                     | Description                                                    | Material No. | Qty. Included in each Kit |          |          |          |  |  |   |   |  |
| 9                                            | Allen Screw, M6 x 20mm, Delta Seal                             | 00ID7899     | 4                         |          |          |          |  |  |   |   |  |
|                                              | Allen Screw, M10 x 25mm, Delta Seal                            | 00ID7901     |                           | 4        |          | 4        |  |  |   |   |  |
| 10                                           | Shaft Pin, $\phi 5 \times 26$ mm, Stainless                    | 310192       | 1                         | 1        |          | 1        |  |  | 1 |   |  |
| 10a                                          | Coupling, Half set, 56C, 1/3-2HP, $\phi 15.8 / \phi 16$        | 96516777     | 1                         |          |          |          |  |  |   |   |  |
|                                              | Cplg. Half set, 182/184TC, 3-SHP, High, $\phi 28.5/\phi 16$    | 96516009     |                           | 1        |          |          |  |  |   |   |  |
|                                              | Cplg. Half set, 213TC, 7.5-10HP, High, $\phi 34.9/\phi 16$     | 96516770     |                           |          | 1        |          |  |  |   |   |  |
|                                              | Cplg. Half set, 254TC-284/286TSC, 15-25HP, $\phi 41.2/\phi 16$ | 96516771     |                           |          |          |          |  |  |   | 1 |  |
| N/A                                          | Adjusting Fork                                                 | 96483950     | 1                         |          |          |          |  |  |   | 1 |  |

# Spare Part Kits CR10-H

## SPARE PART KITS (Continued)

| COUPLING GUARD KIT |                                            | Kit No.      | 96509612                  |   |
|--------------------|--------------------------------------------|--------------|---------------------------|---|
| NEMA 56C, 1/3-2HP  |                                            | Kit No.      | 96509614                  |   |
| Pos. No.           | Description                                | Material No. | Qty. Included in each Kit |   |
| 7                  | Coupling Guard, W=127mm x H=90.5mm         | 96491002     | 2                         |   |
|                    | Coupling Guard, W=157mm x H=171mm          | 96490656     |                           | 2 |
| 7a                 | Screw comb.slot torx/straight slot 4 x 8mm | 96488481     | 4                         | 4 |

| Air Vent Kit - Horizontal Units |                                            | Kit No.      | 91136720                  |
|---------------------------------|--------------------------------------------|--------------|---------------------------|
| CR-H, CRN-H1S to 20             |                                            |              |                           |
| Pos. No.                        | Description                                | Material No. | Qty. Included in each Kit |
| 117                             | Air Vent Pipe, short for 118, G1/2 , 60x43 | 96525189     | 1                         |
| 117a                            | Counter Nut for Pipe 117, G1/2             | 96506709     | 2                         |
| 118                             | Air vent type 1511-AV - 5/6430             | 96427483     | 1                         |

## ACCESSORIES

| ANSI COMPANION FLANGES FOR MEDIUM CR-H                          |             | 1.5"         |      | 1"           |      |
|-----------------------------------------------------------------|-------------|--------------|------|--------------|------|
| Kit No. 97642565 1.5" x 1" CI BLACK for GA 125#                 |             | Material No. | Qty. | Material No. | Qty. |
| Pos. No.                                                        | Description |              |      |              |      |
| N/A                                                             | Bolts       | 97693886     | 4    | 97693886     | 4    |
| N/A                                                             | Flanges     | 91123167     | 1    | 96983489     | 1    |
| N/A                                                             | Gasket      | 91123168     | 1    | 97692916     | 1    |
| Kit No. 96967594 1.5" x 1" CI BLACK for GA 250#                 |             | 1.5"         |      | 1"           |      |
| Pos. No.                                                        | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                             | Bolts       | 91137423     | 4    | 91130816     | 4    |
| N/A                                                             | Flanges     | 96983494     | 1    | 96983493     | 1    |
| N/A                                                             | Gasket      | 97694408     | 1    | 97694407     | 1    |
| Kit No. 97642567 2" x 1" CI BLACK for G05 125#                  |             | 2"           |      | 1"           |      |
| Pos. No.                                                        | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                             | Bolts       | 91130816     | 4    | 97526838     | 4    |
| N/A                                                             | Flanges     | 96983491     | 1    | 96983489     | 1    |
| N/A                                                             | Gasket      | 97692909     | 1    | 97692916     | 1    |
| Kit No. 96967595 2" x 1" CI BLACK for G05 250#                  |             | 2"           |      | 1"           |      |
| Pos. No.                                                        | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                             | Bolts       | 91120660     | 8    | 91130816     | 4    |
| N/A                                                             | Flanges     | 00ID2743     | 1    | 96983493     | 1    |
| N/A                                                             | Gasket      | 00ID2747     | 1    | 97694407     | 1    |
| Kit No. 97642571 3" x 1.5" CI BLACK for GB, G50 and G20 125#    |             | 3"           |      | 1.5"         |      |
| Pos. No.                                                        | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                             | Nuts        | 00ID1510     | 4    | none         | 0    |
| N/A                                                             | Bolts       | 00ID1921     | 4    | 97693886     | 4    |
| N/A                                                             | Flanges     | 00ID1925     | 1    | 91123167     | 1    |
| N/A                                                             | Gasket      | 560185       | 1    | 91123168     | 1    |
| Kit No. 97658571 3" x 1.5" CI BLACK for GB, G50 and G20 250#    |             | 3"           |      | 1.5"         |      |
| Pos. No.                                                        | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                             | Bolts       | 91120662     | 8    | 91137423     | 4    |
| N/A                                                             | Flanges     | 91121943     | 1    | 96983494     | 1    |
| N/A                                                             | Gasket      | 91122339     | 1    | 97694408     | 1    |
| Kit No. 97642574 3" x 2" CI BLACK for GC, G10, G60 and G30 125# |             | 3"           |      | 2"           |      |
| Pos. No.                                                        | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                             | Nuts        | 00ID1510     | 4    | none         | 0    |
| N/A                                                             | Bolts       | 00ID1921     | 4    | 91130816     | 4    |
| N/A                                                             | Flanges     | 00ID1925     | 1    | 96983491     | 1    |
| N/A                                                             | Gasket      | 560185       | 1    | 97692909     | 1    |
| Kit No. 97658572 3" x 2" CI BLACK for GC, G10, G60 and G30 250# |             | 3"           |      | 2"           |      |
| Pos. No.                                                        | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                             | Bolts       | 91120662     | 8    | 91120660     | 8    |
| N/A                                                             | Flanges     | 91121943     | 1    | 00ID2743     | 1    |
| N/A                                                             | Gasket      | 91122339     | 1    | 00ID2747     | 1    |
| Kit No. 97642568 2" x 2" CI BLACK for G22 125#                  |             | 2"           |      | 2"           |      |
| Pos. No.                                                        | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                             | Bolts       | 91130816     | 4    | 91130816     | 4    |
| N/A                                                             | Flanges     | 96983491     | 1    | 96983491     | 1    |
| N/A                                                             | Gasket      | 97692909     | 1    | 97692909     | 1    |
| Kit No. 97757976 2" x 2" CI BLACK for G22 250#                  |             | 2"           |      | 2"           |      |
| Pos. No.                                                        | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                             | Bolts       | 91120660     | 8    | 91120660     | 8    |
| N/A                                                             | Flanges     | 00ID2743     | 1    | 00ID2743     | 1    |
| N/A                                                             | Gasket      | 00ID2747     | 1    | 00ID2747     | 1    |

## ACCESSORIES (Continued)

| ANSI COMPANION FLANGES FOR MEDIUM CR-H, CRN-H                |             |              |      |              |      |
|--------------------------------------------------------------|-------------|--------------|------|--------------|------|
| Kit No. 97698645 1.5" x 1" 316SS for GA 150#                 |             | 1.5"         |      | 1"           |      |
| Pos. No.                                                     | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                          | Bolts       | 97743748     | 4    | 97743748     | 4    |
| N/A                                                          | Flanges     | 96983498     | 1    | 96983497     | 1    |
| N/A                                                          | Gasket      | 97694409     | 1    | 97692916     | 1    |
| Kit No. 97698646 1.5" x 1" 316SS for GA 300#                 |             | 1.5"         |      | 1"           |      |
| Pos. No.                                                     | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                          | Bolts       | 91143035     | 8    | 91143029     | 4    |
| N/A                                                          | Flanges     | 96983496     | 1    | 96983495     | 1    |
| N/A                                                          | Gasket      | 97694408     | 1    | 97694407     | 1    |
| Kit No. 97698647 2" x 1" 316SS for G05 150#                  |             | 2"           |      | 1"           |      |
| Pos. No.                                                     | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                          | Bolts       | 91143029     | 4    | 97743748     | 4    |
| N/A                                                          | Flanges     | 96983499     | 1    | 96983497     | 1    |
| N/A                                                          | Gasket      | 97692909     | 1    | 97692916     | 1    |
| Kit No. 97698648 2" x 1" 316SS for G05 300#                  |             | 2"           |      | 1"           |      |
| Pos. No.                                                     | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                          | Bolts       | 97743741     | 8    | 91143029     | 4    |
| N/A                                                          | Flanges     | 00ID7240     | 1    | 96983495     | 1    |
| N/A                                                          | Gasket      | 00ID2747     | 1    | 97694407     | 1    |
| Kit No. 97698649 3" x 1.5" 316SS for GB, G50 and G20 150#    |             | 3"           |      | 1.5"         |      |
| Pos. No.                                                     | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                          | Nuts        | 91143011     | 4    | none         | 0    |
| N/A                                                          | Bolts       | 91143031     | 4    | 97743748     | 4    |
| N/A                                                          | Flanges     | 91121944     | 1    | 96983498     | 1    |
| N/A                                                          | Gasket      | 560185       | 1    | 97694409     | 1    |
| Kit No. 97698650 3" x 1.5" 316SS for GB, G50 and G20 300#    |             | 3"           |      | 1.5"         |      |
| Pos. No.                                                     | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                          | Bolts       | 91143038     | 8    | 91143035     | 4    |
| N/A                                                          | Flanges     | 91121945     | 1    | 96983496     | 1    |
| N/A                                                          | Gasket      | 91122339     | 1    | 97694408     | 1    |
| Kit No. 97698651 3" x 2" 316SS for GC, G10, G60 and G30 150# |             | 3"           |      | 2"           |      |
| Pos. No.                                                     | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                          | Nuts        | 91143011     | 4    | none         | 0    |
| N/A                                                          | Bolts       | 91143031     | 4    | 91143029     | 4    |
| N/A                                                          | Flanges     | 91121944     | 1    | 96983499     | 1    |
| N/A                                                          | Gasket      | 560185       | 1    | 97692909     | 1    |
| Kit No. 97698652 3" x 2" 316SS for GC, G10, G60 and G30 300# |             | 3"           |      | 2"           |      |
| Pos. No.                                                     | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                          | Bolts       | 91143038     | 8    | 97743741     | 8    |
| N/A                                                          | Flanges     | 91121945     | 1    | 00ID7240     | 1    |
| N/A                                                          | Gasket      | 91122339     | 1    | 00ID2747     | 1    |
| Kit No. 97743809 2" x 2" 316SS for G22 150#                  |             | 2"           |      | 2"           |      |
| Pos. No.                                                     | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                          | Bolts       | 91143029     | 4    | 91143029     | 4    |
| N/A                                                          | Flanges     | 96983499     | 1    | 96983499     | 1    |
| N/A                                                          | Gasket      | 97692909     | 1    | 97692909     | 1    |
| Kit No. 97743810 2" x 2" 316SS for G22 300#                  |             | 2"           |      | 2"           |      |
| Pos. No.                                                     | Description | Material No. | Qty. | Material No. | Qty. |
| N/A                                                          | Bolts       | 97743741     | 8    | 97743741     | 8    |
| N/A                                                          | Flanges     | 00ID7240     | 1    | 00ID7240     | 1    |
| N/A                                                          | Gasket      | 00ID2747     | 1    | 00ID2747     | 1    |

# Spare Part Kits CR10-H

## ACCESSORIES (Continued)

| Baseplate Kit |                                                            | Kit No.      |                           | 97534517 |   |   |
|---------------|------------------------------------------------------------|--------------|---------------------------|----------|---|---|
| 139           | 56C for GA/B/C                                             | Kit No.      | 97534518                  |          |   |   |
|               | 182TC for GA/B/C                                           | Kit No.      | 97534573                  |          |   |   |
| XLBP1         | 56C for GA/B/C                                             | Kit No.      | 97534574                  |          |   |   |
|               | 182TC for GA/B/C                                           | Kit No.      | 97534574                  |          |   |   |
| Pos. No.      | Description                                                | Material No. | Qty. Included in each Kit |          |   |   |
| 90            | Baseplate Cpl. 139, L=991" x W=305" x H=106.4768"          | 96956336     | 1                         | 1        |   |   |
|               | Baseplate Cpl. XLBP1, L=1500" x W=305" x H=106.4768"       | 96956376     |                           |          | 1 | 1 |
| N/A           | Slider & fastners for 56C(consists of slider & hardware)   | 96983855     | 1                         |          | 1 |   |
| N/A           | Slider & fastner for 182TC (consists of slider & hardware) | 96983858     |                           | 1        |   | 1 |
| N/A           | Hardware Kit -96983855/68/78(cont. pos.56f, g, 90a,d& f)** | 97501470     | 1                         |          | 1 |   |
| N/A           | Hardware Kit -96983858 (cont. pos.56f & g, 90a, d & f)**   | 97501481     |                           | 1        |   | 1 |
| 56f           | Bolt, Hex Head 1/2 -13 UNC x 1" SAE 5, Zinc plated         | N/A          | 2                         | 2        | 2 | 2 |
| 56g           | Washer, 1/2" SAE, Zinc plated                              | N/A          | 2                         | 2        | 2 | 2 |
| 90a           | Bolt, Hex Head 5/16 -18 UNC x .75" SAE 5, Zinc plated      | N/A          | 4                         |          | 4 |   |
|               | Bolt, Hex Head 3/8 -16 UNC x .5" SAE 5, Zinc plated        | N/A          |                           | 4        |   | 4 |
| 90b           | Slider, GA/B/C 56C/139BP, L=204" x H=45.5" x W=25.4"       | 96956339     | 2                         |          | 2 |   |
|               | Slider, GA/B/C 182TC/139 BP, L=230" x H=23" x W=25.4"      | 96956338     |                           | 2        |   | 2 |
| 90d           | Bolt, Hex Head 1/4 -20 UNC x 1" SAE 5, Zinc plated         | N/A          | 4                         |          | 4 |   |
|               | Bolt, Hex Head 1/4 -20 UNC x 1.75" SAE 5, Zinc plated      | N/A          |                           | 4        |   | 4 |
| 90f           | Washer, 5/16" SAE, Zinc plated                             | N/A          | 4                         |          | 4 |   |
|               | Washer. 3/8" SAE. Zinc plated                              | N/A          |                           | 4        |   | 4 |

\* Values in mm, Length (L) is +/- 2mm, Height (H) is +/- 1mm, Width (W). \*\* Hardware kits 97501470 and 81 are also available for sale.

| Baseplate Kit |                                                             | Kit No.      |                           | 97534520 |   |   |
|---------------|-------------------------------------------------------------|--------------|---------------------------|----------|---|---|
| 148           | 213TC for GA/B/C                                            | Kit No.      |                           | 97534531 |   |   |
|               | 254TC for GA/B/C                                            | Kit No.      |                           | 97573875 |   |   |
| XLBP2         | 213TC for GA/B/C                                            | Kit No.      |                           | 97534579 |   |   |
|               | 254TC for GA/B/C                                            | Kit No.      |                           |          |   |   |
| Pos. No.      | Description                                                 | Material No. | Qty. Included in each Kit |          |   |   |
| 90            | Baseplate Cpl. 148, L=1219" x W=381" x H=107.9"             | 96956346     | 1                         | 1        |   |   |
|               | Baseplate Cpl. XLBP2, L=1777.8" x W=381" x H=107.9"         | 96956377     |                           |          | 1 | 1 |
| N/A           | Slider & fastners for 213TC(consists of slider & hardware)  | 96983859     | 1                         |          | 1 |   |
| N/A           | Slider & fastner 254TC (cont. of 56k, slider & hardware)    | 96983862     |                           | 1        |   | 1 |
| N/A           | Hardware Kit -96983859(consists of pos.56f, g, 90a,d& f)**  | 97501482     | 1                         |          | 1 |   |
| N/A           | Hardware Kit -96983862 (cont. pos.56f, g & m, 90a, d & f)** | 97501483     |                           | 1        |   | 1 |
| 56f           | Bolt, Hex Head 1/2 -13 UNC x 1.25" SAE 5, Zinc plated       | N/A          | 2                         |          | 2 |   |
|               | Bolt, Hex Head 1/2 -13 UNC x 2.25" SAE 5, Zinc plated       | N/A          |                           | 2        |   | 2 |
| 56g           | Washer, 1/2" SAE, Zinc plated                               | N/A          | 2                         |          | 2 |   |
| 56k           | Volute Spacer, 148 BP 254T, L=200" x H=25.4" x W=78.2       | 96956349     |                           | 1        |   | 1 |
| 56m           | Slotted Spring Pin ø3/16" x 1" Zinc Plated                  | N/A          |                           | 2        |   | 2 |
| 90a           | Bolt, Hex Head 3/8 -16 UNC x 5/8" SAE 5, Zinc plated        | N/A          | 4                         |          | 4 |   |
|               | Bolt, Hex Head 1/2 -13 UNC x 1.5" SAE 5, Zinc plated        | N/A          |                           | 4        |   | 4 |
| 90b           | Slider, GA/B/C 213TC/148BP, L=252" x H=20" x W=25.4"        | 96956347     | 2                         |          | 2 |   |
|               | Slider, GA/B/C 254TC/148BP, L=299" x H=20.3" x W=38.1"      | 96956348     |                           | 2        |   | 2 |
| 90d           | Bolt, Hex Head 1/4 -20 UNC x 1.75" SAE 5, Zinc plated       | N/A          | 4                         |          | 4 |   |
|               | Bolt, Hex Head 1/4 -20 UNC x 2.5" SAE 5, Zinc plated        | N/A          |                           | 4        |   | 4 |
| 90f           | Washer, 3/8" SAE, Zinc plated                               | N/A          | 4                         |          | 4 |   |
|               | Washer, 1/2" SAE, Zinc plated                               | N/A          |                           | 4        |   | 4 |

\* Values in mm, Length (L) is +/- 2mm, Height (H) is +/- 1mm, Width (W). \*\* Hardware kits 97501482 and 83 are also available for sale.

| Baseplate Kit |                                                             | Kit No.      |                           | 97534535 |   |   |
|---------------|-------------------------------------------------------------|--------------|---------------------------|----------|---|---|
| 245           | 56C for G05/10/50/60/70/22/33/44                            | Kit No.      | 97534536                  |          |   |   |
|               | 182TC for G05/10/50/60/70/22/33/44                          | Kit No.      | 97534575                  |          |   |   |
| XLBP1         | 56C for G05/10/50/60/70/22/33/44                            | Kit No.      | 97534576                  |          |   |   |
|               | 182TC for G05/10/50/60/70/22/33/44                          | Kit No.      | 97534576                  |          |   |   |
| Pos. No.      | Description                                                 | Material No. | Qty. Included in each Kit |          |   |   |
| 90            | Baseplate Cpl. 245, L=1143" x W=305" x H=106.4768"          | 96956341     | 1                         | 1        |   |   |
|               | Baseplate Cpl. XLBP1, L=1500" x W=305" x H=106.4768"        | 96956376     |                           |          | 1 | 1 |
| N/A           | Slider & fastners for 56C(consists of slider & hardware)    | 96983868     | 1                         |          | 1 |   |
| N/A           | Slider & fastner for 182TC (consists of slider & hardware)  | 96983869     |                           | 1        |   | 1 |
| N/A           | Hardware Kit -96983855/68/78(cont. pos.56f, g, 90a,d& f)**  | 97501470     | 1                         |          | 1 |   |
| N/A           | Hardware Kit -96983869/79 (cont. pos.56f & g, 90a, d & f)** | 97501488     |                           | 1        |   | 1 |
| 56f           | Bolt, Hex Head 1/2 -13 UNC x 1" SAE 5, Zinc plated          | N/A          | 2                         | 2        | 2 | 2 |
| 56g           | Washer, 1/2" SAE, Zinc plated                               | N/A          | 2                         | 2        | 2 | 2 |
| 90a           | Bolt, Hex Head 5/16 -18 UNC x .75" SAE 5, Zinc plated       | N/A          | 4                         | 4        | 4 | 4 |
| 90b           | Slider, G05/22 - 56C/245BP, L=204" x H=125.5" x W=25.4"     | 96956343     | 2                         |          | 2 |   |
|               | Slider, G05/22 - 182T/245 BP, L=230" x H=100" x W=25.4"     | 96956342     |                           | 2        |   | 2 |
| 90d           | Bolt, Hex Head 1/4 -20 UNC x 1" SAE 5, Zinc plated          | N/A          | 4                         |          | 4 |   |
|               | Bolt, Hex Head 1/4 -20 UNC x 2.5" SAE 5, Zinc plated        | N/A          |                           | 4        |   | 4 |
| 90f           | Washer, 5/16" SAE, Zinc plated                              | N/A          | 4                         |          | 4 | 4 |

\* Values in mm, Length (L) is +/- 2mm, Height (H) is +/- 1mm, Width (W). \*\* Hardware kits 97501470 and 88 are also available for sale.

**ACCESSORIES** (Continued)

| Baseplate Kit |                                                             |                |                           |   |
|---------------|-------------------------------------------------------------|----------------|---------------------------|---|
| <b>252</b>    | <b>213TC for G05/10/50/60/70/22/33/44</b>                   | <b>Kit No.</b> | <b>97534539</b>           |   |
| <b>XLBP2</b>  | <b>213TC for G05/10/50/60/70/22/33/44</b>                   | <b>Kit No.</b> | <b>97573873</b>           |   |
| Pos. No.      | Description                                                 | Material No.   | Qty. Included in each Kit |   |
| 90            | Baseplate Cpl. 252, L=1321* x W=381* x H=107.9*             | 96956356       | 1                         |   |
|               | Baseplate Cpl. XLBP2, L=1777.8* x W=381* x H=107.9*         | 96956377       |                           | 1 |
| N/A           | Slider & fastners for 213TC(consists of slider & hardware)  | 96983870       | 1                         | 1 |
| N/A           | Hardware Kit -96983870/80(cont. of pos.56f, g, 90a,d & f)** | 97501489       | 1                         | 1 |
| 56f           | Bolt, Hex Head 1/2 -13 UNC x 1.25" SAE 5, Zinc plated       | N/A            | 2                         | 2 |
| 56g           | Washer, 1/2" SAE, Zinc plated                               | N/A            | 2                         | 2 |
| 90a           | Bolt, Hex Head 3/8 -16 UNC x 1" SAE 5, Zinc plated          | N/A            | 4                         | 4 |
| 90b           | Slider, G05/22, 213TC/252BP,L=252* x H=96.5* x W=25.4*      | 96956357       | 2                         | 2 |
| 90d           | Bolt, Hex Head 1/4 -20 UNC x 1.75" SAE 5, Zinc plated       | N/A            | 4                         | 4 |
| 90f           | Washer, 3/8" SAE, Zinc plated                               | N/A            | 4                         | 4 |

\* Values in mm, Length (L) is +/- 2mm, Height (H) is +/- 1mm, Width (W). \*\* Hardware kit 97501489 is also available for sale.

| Baseplate Kit |                                                            |                |                           |   |
|---------------|------------------------------------------------------------|----------------|---------------------------|---|
| <b>258</b>    | <b>254TC for G05/10/50/60/70/22/33/44</b>                  | <b>Kit No.</b> | <b>97534543</b>           |   |
| <b>XLBP3</b>  | <b>254TC for G05/10/50/60/70/22/33/44</b>                  | <b>Kit No.</b> | <b>97573876</b>           |   |
| Pos. No.      | Description                                                | Material No.   | Qty. Included in each Kit |   |
| 90            | Baseplate Cpl. 258, L=1473.2* x W=457.2* x H=119.1*        | 96956360       | 1                         |   |
|               | Baseplate Cpl. XLBP3, L=2406.4* x W=457.2* x H=119.1*      | 96956379       |                           | 1 |
| N/A           | Slider & fastners for 254TC(consists of slider & hardware) | 96983871       | 1                         | 1 |
| N/A           | Hardware Kit -96983871(cont. of pos.56f & g, 90a,d & f)**  | 97501493       | 1                         | 1 |
| 56f           | Bolt, Hex Head 1/2 -13 UNC x 1" SAE 5, Zinc plated         | N/A            | 2                         | 2 |
| 56g           | Washer, 1/2" SAE, Zinc plated                              | N/A            | 2                         | 2 |
| 90a           | Bolt, Hex Head 1/2 -13 UNC x 1.25" SAE 5, Zinc plated      | N/A            | 4                         | 4 |
| 90b           | Slider, G05/22, 254TC/258BP, L=354* x H=67* x W=25.4*      | 96956361       | 2                         | 2 |
| 90d           | Bolt, Hex Head 1/4 -20 UNC x 1.75" SAE 5, Zinc plated      | N/A            | 4                         | 4 |
| 90f           | Washer, 1/2" SAE, Zinc plated                              | N/A            | 4                         | 4 |

\* Values in mm, Length (L) is +/- 2mm, Height (H) is +/- 1mm, Width (W). \*\* Hardware kit 97501493 is also available for sale.

# Spare Part Kits • Special Tools CR10-H

## SPECIAL TOOLS

Tools not generally available from normal sources.

| Mat. No. | Description and Use                                                                                                           |                                                                                     |
|----------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 00SV0040 | <b>Shaft Holder for Dismantling/Assembly</b><br>Used to hold and protect the shaft during dismantling and assembly.           |  |
| 00SV2107 | <b>Tubular Box Spanner for Shaft Seal 41.0 mm</b><br>Used to install and remove the shaft seal.<br>Fits a 1/2" drive ratchet. |   |
| 00SV2101 | <b>Ring Insert Tool for Shaft Seal + Square</b><br>41 mm x 1/2" drive                                                         |    |
| 00SV0239 | <b>Puller for Neck Ring</b><br>Used to remove the Neck Ring from Chamber.                                                     |   |
| 00SV2011 | <b>Bit Holder</b><br>Used with Bits Kit, 1/4"                                                                                 |    |
| 00SV2010 | <b>Bits Kit</b><br>NV 5 mm for M6, 1/4"<br>NV 6 mm for M8, 1/4"<br>NV 8 mm for M10, 1/4"                                      |   |
| 00SV2012 | <b>Hexagon Socket Bit</b><br>Used for Shaft Seal<br>NV 2.5 mm for M5, 1/4"                                                    |    |
| 00SV2127 | <b>Bearing Removal Punch</b>                                                                                                  |    |

## STANDARD TOOLS

In addition to being available from Grundfos, comparable tools can be purchased through normal sources.

| Mat. No.                                     | Description and Use                                                                                                                    |                                                                                       |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 00SV0083<br>00SV0055<br>00SV0054<br>00SV0122 | <b>Wrenches</b><br>Used to tighten various nuts.<br>NV 10 mm for M6<br>NV 13 mm for M8<br>NV 19 mm for M12<br>NV 24 mm for M16         |    |
| 00SV0292<br>00SV0269<br>00SV0400             | <b>Torque Wrench</b><br>Used to torque various screws.<br>4-20 Nm, 9 x 12<br>20-100 Nm, 9 x 12<br>40-200 Nm, 14x18                     |   |
| 00SV0438                                     | <b>Torque Screwdriver</b><br>Used to tighten various nuts.<br>1-6 Nm, 1/4"                                                             |    |
| 00SV0295<br>00SV0401                         | <b>Ratchet Spanner for all Adapters</b><br>9 mm x 12 mm, 1/2"<br>14 mm x 18 mm, 1/2"                                                   |  |
| 00SV0296<br>00SV0297<br>00SV0298             | <b>Socket Spanner with Inside Hex</b><br>NV 5 mm for M6, 1/2" x 1/2"<br>NV 6 mm for M8, 1/2" x 1/2"<br>NV 8 mm for M10, 1/2" x 1/2"    |    |
| 00SV0310<br>00SV0294<br>00SV0271<br>00SV0524 | <b>Ring Spanner</b><br>NV 10 mm, 9 x 12, for M6<br>NV 13 mm, 9 x 12, for M8<br>NV 19 mm, 9 x 12, for M12<br>NV 24 mm, 14 x 18, for M16 |    |
| 00SV2013<br>00SV0267                         | <b>Socket Spanner</b><br>NV 13 mm for M8, 1/2" drv.<br>NV 19 mm for M12, 1/2" drv.                                                     |    |



**BE > THINK > INNOVATE >**

Being responsible is our foundation  
Thinking ahead makes it possible  
Innovation is the essence



L-CR-SM-050 11/11 US

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Subject to alterations.

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