



# CR5-H

## Parts List & Kits

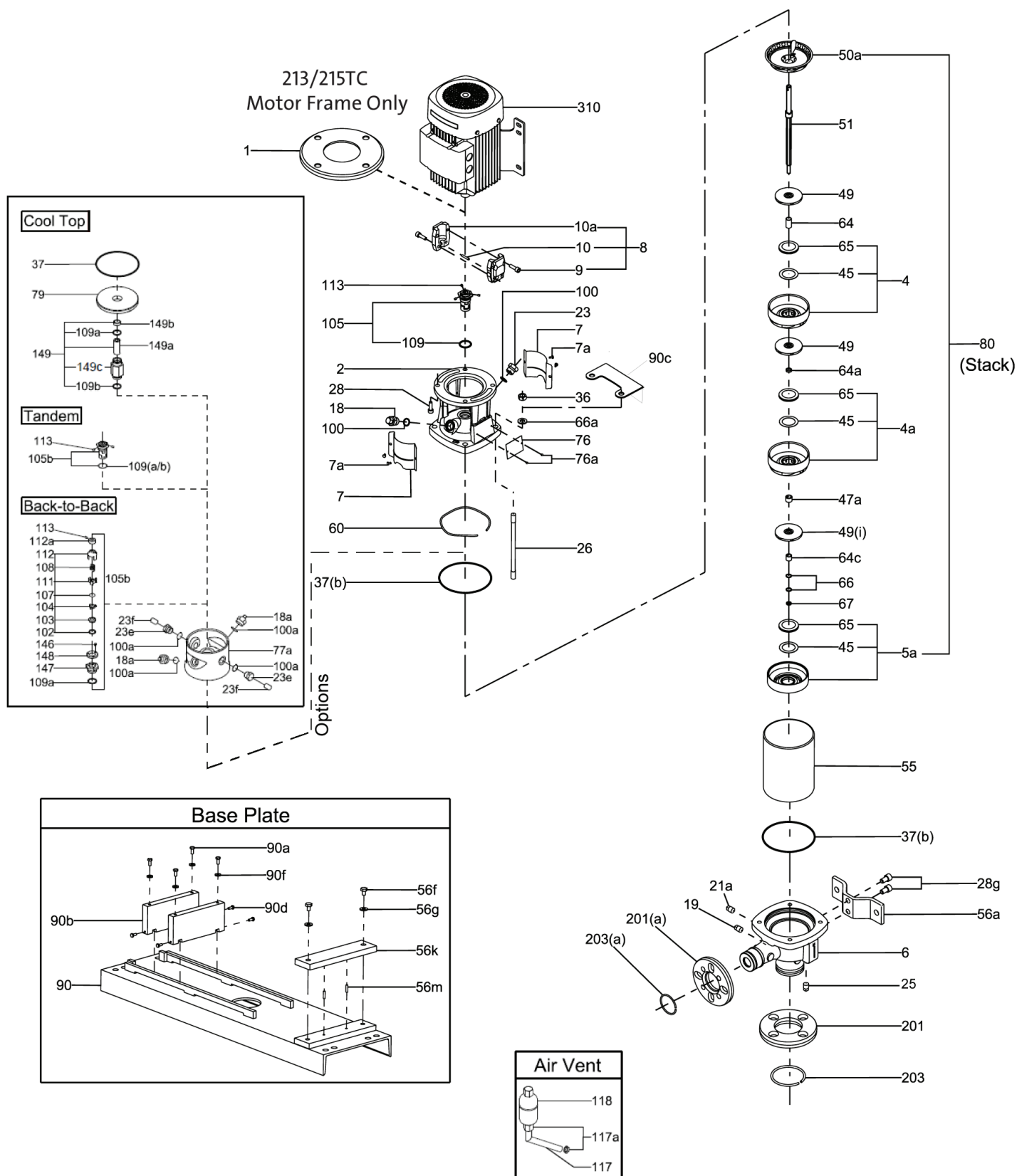
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# Exploded View **CR5-H**



# Parts List & Kits CR5-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                                 |       | 18-24  | 1        | For NEMA, 213/215TC, 7.5 - 10 HP             | 96476208        |              | No                 |
| 2                 | Motor Stool                                             |       | 2/1-6  | 1        | NEMA, 56C, 1/3 - 2 HP                        | 96436501        |              | No                 |
|                   |                                                         |       | 7-16   | 1        | NEMA, 182/184TC, 3 - 5 HP                    | 96436502        |              | No                 |
|                   |                                                         |       | 18-24  | 1        | Add Pos. 1, NEMA, 213TC, 7.5 - 10 HP         | 96436502        |              | No                 |
| 4                 | Chamber, Complete with Pos. 45 & 65                     |       | 2/1-36 | ^^^      | PTFE Pos. 45                                 | 96437517        |              | No                 |
|                   |                                                         |       | 2/1-36 | ^^^      | PTFE Pos. 45 (96547651 is qty of 24)         | 96437517        | 96547651     | No                 |
| 4a                | Chamber Cpl. w/Pos. 45 & 65 & Bearing                   |       | 2/1-36 | ^^^^     | Silicon Carbide Brg, PTFE Pos. 45            | 96437636        |              | YES                |
|                   | Chamber Cpl. w/Pos. 45 & 65 & Brg. (option)             |       | 2/1-36 | ^^^^     | Bronze Bearing, PTFE Pos. 45                 | 96440616        |              | YES                |
|                   |                                                         |       | 2/1-36 | ^^^^     | Graflon Bearing, PTFE Pos. 45                | 96440619        |              | YES                |
| 5a                | Chamber, Bottom Complete with Pos. 45 & 65              |       | 2/1-36 | 1*       | PTFE Pos. 45                                 | 96437737        | 96588147     | No                 |
|                   | Chmb. Btm. Cpl. w/Pos. 45 & 65 (Low NPSH opt.)          |       | 2/1-36 | 1        | PTFE Pos. 45                                 | 96462144        |              | No                 |
| 6                 | Base                                                    |       | 2/1-36 | 1        | GA, Cast Iron                                | 95922004        |              | No                 |
| 7                 | Coupling Guard                                          |       | 2/1-6  | 2        | NEMA, 56C                                    | 96438137        |              | YES                |
|                   |                                                         |       | 7-24   | 2        | NEMA, 182-215TC                              | 96438138        |              | YES                |
| 7a                | Screw for Coupling Guard                                |       | 2/1-36 | 4        | Screw comb. slot torx/straight slot 4 x 8mm  | 96488481        |              | YES                |
| 9                 | Allen Screw                                             |       | 2/1-6  | 4        | M6 x 20mm, Delta Tone/Seal                   | 00ID7899        |              | YES                |
|                   |                                                         |       | 7-16   | 4        | M8 x 25mm, Delta Tone/Seal                   | 00ID7900        |              | YES                |
|                   |                                                         |       | 18-24  | 4        | M10 x 25mm, Delta Tone/Seal                  | 00ID7901        |              | YES                |
| 10                | Shaft Pin                                               |       | 2/1-36 | 1        | ø5 x 26mm                                    | 310192          |              | YES                |
| 10a               | Coupling Half                                           |       | 2/1-6  | 2        | NEMA, 56C, 1/3 - 2HP, ø15.8 / ø12            | 410108          |              | YES                |
|                   |                                                         |       | 2/1-8  | 1        | NEMA, 143/5TC, 1/3-3HP, ø22.225 / ø12 (Mach) | 97851501        |              | YES                |
|                   |                                                         |       | 7-16   | 2        | NEMA, 182/184TC, 3-5HP, ø28.5/ø12            | 410109          |              | YES                |
|                   |                                                         |       | 18-24  | 2        | NEMA, 213TC, 7.5-10HP, ø34.9/ø12             | 96472175        |              | YES                |
| 18(a)             | Priming/Vent Plug                                       |       | 2/1-36 | *        | G 1/2A, NV24 with NV9 x M8 stem              | 405150          | 95061351     | No                 |
| 19(a)             | Pipe Plug                                               |       | 2/1-36 | **       | 1/4" NPT,SS SQHD, with Loctite               | 91136507        |              | No                 |
| 21a               | Pipe Plug                                               |       | 2/1-36 | **       | 1/4" NPT,SS SQHD, with Loctite               | 91136507        |              | No                 |
| 23(c)             | Plug                                                    |       | 2/1-36 | **       | G 1/2A, Solid No port, NV24                  | 370025          | 95061733     | No                 |
| 23a,e             | Plug (option)                                           |       | 2/1-36 | **       | G 1/2A, w/1/4"port, NV24                     | 91120659        |              | No                 |
| 23b,f             | Pipe Plug for Pos. 23a, 23e                             |       | 2/1-36 | **       | 1/4" NPT,SS SQHD, with Loctite               | 91136507        |              | No                 |
| 23d               | Plug, Vented for Pos. 77a Cool Top® option only         |       | 2/1-36 | 2        | G 1/2A, NV24, Vented                         | 96510323        |              | No                 |
| 25                | Drain Plug                                              |       | 2/1-36 | 1        | 1/4" NPT,SS SQHD, with Loctite               | 91136507        |              | No                 |
| 26                | Staybolt                                                |       | 2/1    | 4        | M12, ø10,7 x 79mm                            | 96919075        |              | No                 |
|                   |                                                         |       | 3      | 4        | M12, ø10,7 x 106mm                           | 96919077        |              | No                 |
|                   |                                                         |       | 4      | 4        | M12, ø10,7 x 133mm                           | 96919079        |              | No                 |
|                   |                                                         |       | 5      | 4        | M12, ø10,7 x 160mm                           | 96919081        |              | No                 |
|                   |                                                         |       | 6      | 4        | M12, ø10,7 x 187mm                           | 96919093        |              | No                 |
|                   |                                                         |       | 7      | 4        | M12, ø10,7 x 214mm                           | 96919095        |              | No                 |
|                   |                                                         |       | 8      | 4        | M12, ø10,7 x 241mm                           | 96919097        |              | No                 |
|                   |                                                         |       | 9      | 4        | M12, ø10,7 x 268mm                           | 96919099        |              | No                 |
|                   |                                                         |       | 10     | 4        | M12, ø10,7 x 295mm                           | 96919101        |              | No                 |
|                   |                                                         |       | 11     | 4        | M12, ø10,7 x 322mm                           | 96919502        |              | No                 |
|                   |                                                         |       | 12     | 4        | M12, ø10,7 x 349mm                           | 96919504        |              | No                 |
|                   |                                                         |       | 13     | 4        | M12, ø10,7 x 376mm                           | 96919506        |              | No                 |
|                   |                                                         |       | 14     | 4        | M12, ø10,7 x 403mm                           | 96919507        |              | No                 |
|                   |                                                         |       | 15     | 4        | M12, ø10,7 x 430mm                           | 96919508        |              | No                 |
|                   |                                                         |       | 16     | 4        | M12, ø10,7 x 457mm                           | 96919510        |              | No                 |
|                   |                                                         |       | 18     | 4        | M12, ø10,7 x 511mm                           | 96919542        |              | No                 |
|                   |                                                         |       | 20     | 4        | M12, ø10,7 x 565mm                           | 96923538        |              | No                 |
|                   |                                                         |       | 22     | 4        | M12, ø10,7 x 619mm                           | 96923539        |              | No                 |
|                   |                                                         |       | 24     | 4        | M12, ø10,7 x 673mm                           | 96923540        |              | No                 |
|                   |                                                         |       | 26     | 4        | M12, ø10,7 x 727mm, 4 pole & 50 Hz.          | 97525082        |              | No                 |
|                   |                                                         |       | 29     | 4        | M12, ø10,7 x 808mm, 4 pole & 50 Hz.          | 98141292        |              | No                 |
|                   |                                                         |       | 32     | 4        | M12, ø10,7 x 889mm, 4 pole & 50 Hz.          | 98141296        |              | No                 |
|                   |                                                         |       | 36     | 4        | M12, ø10,7 x 997mm, 4 pole & 50 Hz.          | 98141299        |              | No                 |
|                   | Staybolt (Cool Top®, Back-to-Back & Tandem Seal option) |       | 2/1    | 4        | M12, ø10,7 x 187mm                           | 96919093        |              | No                 |
|                   |                                                         |       | 3      | 4        | M12, ø10,7 x 214mm                           | 96919095        |              | No                 |
|                   |                                                         |       | 4      | 4        | M12, ø10,7 x 241mm                           | 96919097        |              | No                 |
|                   |                                                         |       | 5      | 4        | M12, ø10,7 x 268mm                           | 96919099        |              | No                 |
|                   |                                                         |       | 6      | 4        | M12, ø10,7 x 295mm                           | 96919101        |              | No                 |
|                   |                                                         |       | 7      | 4        | M12, ø10,7 x 322mm                           | 96919502        |              | No                 |
|                   |                                                         |       | 8      | 4        | M12, ø10,7 x 349mm                           | 96919504        |              | No                 |
|                   |                                                         |       | 9      | 4        | M12, ø10,7 x 376mm                           | 96919506        |              | No                 |
|                   |                                                         |       | 10     | 4        | M12, ø10,7 x 403mm                           | 96919507        |              | No                 |
|                   |                                                         |       | 11     | 4        | M12, ø10,7 x 430mm                           | 96919508        |              | No                 |
|                   |                                                         |       | 12     | 4        | M12, ø10,7 x 457mm                           | 96919510        |              | No                 |
|                   |                                                         |       | 13     | 4        | M12, ø10,7 x 484mm                           | 97525058        |              | No                 |
|                   |                                                         |       | 14     | 4        | M12, ø10,7 x 511mm                           | 96919542        |              | No                 |
|                   |                                                         |       | 15     | 4        | M12, ø10,7 x 538mm                           | 97525059        |              | No                 |
|                   |                                                         |       | 16     | 4        | M12, ø10,7 x 565mm                           | 96923538        |              | No                 |
|                   |                                                         |       | 18     | 4        | M12, ø10,7 x 619mm                           | 96923539        |              | No                 |

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# Parts List & Kits CR5-H

| Pos. No.   | Part Description                                                       | Model | Stages | No. Used | Comments/Dimensions                       | B.O.M. Ref. No. | Material No. | Included in kits ? |
|------------|------------------------------------------------------------------------|-------|--------|----------|-------------------------------------------|-----------------|--------------|--------------------|
| PARTS LIST |                                                                        |       |        |          |                                           |                 |              |                    |
| 26         | Staybolt (Cool Top®, Back-to-Back & Tandem Seal Option) (Continued)    |       | 20     | 4        | M12, ø10,7 x 673mm                        | 96923540        |              | No                 |
|            |                                                                        |       | 22     | 4        | M12, ø10,7 x 727mm                        | 97525082        |              | No                 |
|            |                                                                        |       | 24     | 4        | M12, ø10,7 x 781mm                        | 97525084        |              | No                 |
|            |                                                                        |       | 26     | 4        | M12, ø10,7 x 835mm, 4 pole & 50 Hz.       | 98141324        |              | No                 |
|            |                                                                        |       | 29     | 4        | M12, ø10,7 x 916mm, 4 pole & 50 Hz.       | 98141327        |              | No                 |
|            |                                                                        |       | 32     | 4        | M12, ø10,7 x 997mm, 4 pole & 50 Hz.       | 98141299        |              | No                 |
|            |                                                                        |       | 36     | 4        | M12, ø10,7 x 1105mm, 4 pole & 50 Hz.      | 98141330        |              | No                 |
| 28         | Motor Bolt                                                             |       | 2/1-6  | 4        | NEMA, 56C, 1/3 - 2HP. UNC 3/8” x 25mm     | 00ID1839        |              | No                 |
|            |                                                                        |       | 7-16   | 4        | NEMA, 182/184TC, 3 - 5HP.UNC1/2” x 25mm   | 00ID1840        |              | No                 |
|            |                                                                        |       | 18-24  | 4        | NEMA, 213TC, 7.5 -10HP. UNC 1/2” x 1.25”  | 91128631        |              | No                 |
| 28g        | Bolt for foot Pos. 56a                                                 |       | 2/1-36 | 2        | M12 x 1.75 x 20mm, Delta Tone/Seal        | 95922048        |              | No                 |
| 36         | Staybolt Nut                                                           |       | 2/1-36 | 4        | 19mm x M12, Delta Tone/Seal               | 00ID7917        |              | No                 |
| 37         | Sleeve O-ring                                                          |       | 2/1-36 | uu       | EPDM, ø137.5 x 3.3mm                      | 96438743        |              | YES                |
|            |                                                                        |       | 2/1-36 | uu       | FKM, ø137.5 x 3.3mm                       | 96438744        |              | YES                |
| 37b        | Sleeve O-ring (option)                                                 |       | 2/1-36 | uu       | FXM, ø137.5 x 3.3mm                       | 96458109        |              | YES                |
|            |                                                                        |       | 2/1-36 | uu       | FFKM, ø136.12 x 3.53mm                    | 96466718        |              | YES                |
| 45         | Neck Ring                                                              |       | 2/1-36 | # stgs   | ø50.45 x ø35 x .7mm, PTFE                 | 96436720        |              | YES                |
| 47a        | Bearing Ring/Spacer<br>Brg. Ring/Spacer (option for Graflon / Brz. 4a) |       | 2/1-36 | ^^^^     | SiC 150, ø17.37 x ø13.10 x ø10.9 x 13mm   | 96437488        |              | YES                |
|            |                                                                        |       | 2/1-36 | ^^^^     | TC, ø15.92 x ø13.10 x ø10.9 x 11mm        | 410121          |              | YES                |
| 49         | Impeller                                                               |       | 2/1-36 | # stgs   | ø73.0 x ø35.0 x 13.2mm (back-plate 1.0mm) | 96437414        |              | No                 |
| 49i        | Impeller (Low NPSH option)                                             |       | 2/1-36 | # stgs   | 96547648 has a qty of 24                  | 96437414        | 96547648     | No                 |
|            |                                                                        |       | 2/1-36 | 1        | ø98.0 x ø52.8 x 17.3mm (back-plate 1.0mm) | 96462490        | 96882667     | No                 |
| 50a        | Top Guide Vane<br>Top Guide Vane Plate (option for destaging)          |       | 2-36   | 1        |                                           | 96457637        |              | No                 |
|            |                                                                        |       | 2/1    | 1        |                                           | 96478562        |              | No                 |
| 51         | Shaft, Complete                                                        |       | 2/1    | 1        | ø12 x 160.5mm                             | 96439607        | 96588198     | No                 |
|            |                                                                        |       | 3      | 1        | ø12 x 180.5mm                             | 96440386        | 96588199     | No                 |
|            |                                                                        |       | 4      | 1        | ø12 x 214.5mm                             | 96440388        |              | No                 |
|            |                                                                        |       | 5      | 1        | ø12 x 234.5mm                             | 96440389        | 96588231     | No                 |
|            |                                                                        |       | 6      | 1        | ø12 x 268.5mm                             | 96440391        |              | No                 |
|            |                                                                        |       | 7      | 1        | ø12 x 288.5mm                             | 96440392        |              | No                 |
|            |                                                                        |       | 8      | 1        | ø12 x 322.5mm                             | 96440394        | 96588233     | No                 |
|            |                                                                        |       | 9      | 1        | ø12 x 342.5mm                             | 96440395        | 96588234     | No                 |
|            |                                                                        |       | 10     | 1        | ø12 x 376.5mm                             | 96440396        | 96588235     | No                 |
|            |                                                                        |       | 11     | 1        | ø12 x 396.5mm                             | 96440397        |              | No                 |
|            |                                                                        |       | 12     | 1        | ø12 x 430.5mm                             | 96440399        |              | No                 |
|            |                                                                        |       | 13     | 1        | ø12 x 450.5mm                             | 96440400        |              | No                 |
|            |                                                                        |       | 14     | 1        | ø12 x 484.5mm                             | 96440401        | 96588236     | No                 |
|            |                                                                        |       | 15     | 1        | ø12 x 504.5mm                             | 96440402        |              | No                 |
|            |                                                                        |       | 16     | 1        | ø12 x 538.5mm                             | 96440404        |              | No                 |
|            |                                                                        |       | 18     | 1        | ø12 x 592.5mm                             | 96440406        |              | No                 |
|            |                                                                        |       | 20     | 1        | ø12 x 646.5mm                             | 96440408        |              | No                 |
|            |                                                                        |       | 22     | 1        | ø12 x 700.5mm                             | 96440410        |              | No                 |
|            |                                                                        |       | 24     | 1        | ø12 x 754.5mm                             | 96440411        | 96588238     | No                 |
|            |                                                                        |       | 26     | 1        | ø12 x 801.5mm, 4 pole & 50 Hz.            | 96440412        |              | No                 |
|            |                                                                        |       | 29     | 1        | ø12 x 882.5mm, 4 pole & 50 Hz.            | 96440413        |              | No                 |
|            |                                                                        |       | 32     | 1        | ø12 x 963.5mm, 4 pole & 50 Hz.            | 96440414        |              | No                 |
|            |                                                                        |       | 36     | 1        | ø12 x 1071.5mm, 4 pole & 50 Hz.           | 96440415        | 96588240     | No                 |
|            | Shaft, Cpl. (Cool Top®,Back-to-Back&Tandem Seal option)                |       | 2/1    | 1        | ø12 x 265.5mm                             | 96457560        |              | No                 |
|            |                                                                        |       | 3      | 1        | ø12 x 285.5mm                             | 96457561        |              | No                 |
|            |                                                                        |       | 4      | 1        | ø12 x 319.5mm                             | 96457563        |              | No                 |
|            |                                                                        |       | 5      | 1        | ø12 x 339.5mm                             | 96457564        |              | No                 |
|            |                                                                        |       | 6      | 1        | ø12 x 373.5mm                             | 96457566        |              | No                 |
|            |                                                                        |       | 7      | 1        | ø12 x 393.5mm                             | 96457567        |              | No                 |
|            |                                                                        |       | 8      | 1        | ø12 x 427.5mm                             | 96457569        |              | No                 |
|            |                                                                        |       | 9      | 1        | ø12 x 447.5mm                             | 96457570        |              | No                 |
|            |                                                                        |       | 10     | 1        | ø12 x 481.5mm                             | 96457571        |              | No                 |
|            |                                                                        |       | 11     | 1        | ø12 x 501.5mm                             | 96457572        |              | No                 |
|            |                                                                        |       | 12     | 1        | ø12 x 535.5mm                             | 96457574        |              | No                 |
|            |                                                                        |       | 13     | 1        | ø12 x 555.5mm                             | 96457575        |              | No                 |
|            |                                                                        |       | 14     | 1        | ø12 x 589.5mm                             | 96457576        |              | No                 |
|            |                                                                        |       | 15     | 1        | ø12 x 609.5mm                             | 96457577        |              | No                 |
|            |                                                                        |       | 16     | 1        | ø12 x 643.5mm                             | 96457579        |              | No                 |
|            |                                                                        |       | 18     | 1        | ø12 x 697.5mm                             | 96457581        |              | No                 |
|            |                                                                        |       | 20     | 1        | ø12 x 751.5mm                             | 96457583        |              | No                 |
|            |                                                                        |       | 22     | 1        | ø12 x 805.5mm                             | 96457585        |              | No                 |
|            |                                                                        |       | 24     | 1        | ø12 x 859.5mm                             | 96457586        |              | No                 |
|            |                                                                        |       | 26     | 1        | ø12 x 906.5mm, 4 pole & 50 Hz.            | 96457587        |              | No                 |
|            |                                                                        |       | 29     | 1        | ø12 x 987.5mm, 4 pole & 50 Hz.            | 96457588        |              | No                 |
|            |                                                                        |       | 32     | 1        | ø12 x 1068.5mm, 4 pole & 50 Hz.           | 96457589        |              | No                 |
|            |                                                                        |       | 36     | 1        | ø12 x 1176.5mm, 4 pole & 50 Hz.           | 96457590        |              | No                 |

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| Pos. No.          | Part Description                                      | Model     | Stages | No. Used | Comments/Dimensions                             | B.O.M. Ref. No. | Material No. | Included in kits ? |
|-------------------|-------------------------------------------------------|-----------|--------|----------|-------------------------------------------------|-----------------|--------------|--------------------|
| <b>PARTS LIST</b> |                                                       |           |        |          |                                                 |                 |              |                    |
| 55                | Outer Sleeve                                          |           | 2/1    | 1        | Ø138 x 44.6mm                                   | 96437865        |              | No                 |
|                   |                                                       |           | 3      | 1        | Ø138 x 71.6mm                                   | 96440013        |              | No                 |
|                   |                                                       |           | 4      | 1        | Ø138 x 98.6mm                                   | 96439999        |              | No                 |
|                   |                                                       |           | 5      | 1        | Ø138 x 125.6mm                                  | 96441512        |              | No                 |
|                   |                                                       |           | 6      | 1        | Ø138 x 152.6mm                                  | 96440000        |              | No                 |
|                   |                                                       |           | 7      | 1        | Ø138 x 179.6mm                                  | 96441515        |              | No                 |
|                   |                                                       |           | 8      | 1        | Ø138 x 206.6mm                                  | 96440001        |              | No                 |
|                   |                                                       |           | 9      | 1        | Ø138 x 233.6mm                                  | 96441518        |              | No                 |
|                   |                                                       |           | 10     | 1        | Ø138 x 260.6mm                                  | 96440002        |              | No                 |
|                   |                                                       |           | 11     | 1        | Ø138 x 287.6mm                                  | 96441519        |              | No                 |
|                   |                                                       |           | 12     | 1        | Ø138 x 314.6mm                                  | 96440003        |              | No                 |
|                   |                                                       |           | 13     | 1        | Ø138 x 341.6mm                                  | 96441522        |              | No                 |
|                   |                                                       |           | 14     | 1        | Ø138 x 368.6mm                                  | 96440004        |              | No                 |
|                   |                                                       |           | 15     | 1        | Ø138 x 395.6mm                                  | 96441523        |              | No                 |
|                   |                                                       |           | 16     | 1        | Ø138 x 422.6mm                                  | 96440005        |              | No                 |
|                   |                                                       |           | 18     | 1        | Ø138 x 476.6mm                                  | 96440006        |              | No                 |
|                   |                                                       |           | 20     | 1        | Ø138 x 530.6mm                                  | 96440007        |              | No                 |
|                   |                                                       |           | 22     | 1        | Ø138 x 584.6mm                                  | 96440008        |              | No                 |
|                   |                                                       |           | 24     | 1        | Ø138 x 638.6mm                                  | 96439652        |              | No                 |
|                   |                                                       |           | 26     | 1        | Ø138 x 692.6mm , 4 pole & 50 Hz.                | 96440009        |              | No                 |
|                   |                                                       |           | 29     | 1        | Ø138 x 773.6mm, 4 pole & 50 Hz.                 | 96440011        |              | No                 |
|                   |                                                       |           | 32     | 1        | Ø138 x 854.6mm, 4 pole & 50 Hz.                 | 96440012        |              | No                 |
|                   |                                                       |           | 36     | 1        | Ø138 x 962.6mm , 4 pole & 50 Hz.                | 96439653        |              | No                 |
| 56a               | Foot for Pos. 6                                       |           | 2/1-36 | 1        | H=43mm, W=196mm, Ø16mm hole CL 152mm, CL.       | 95922025        |              | No                 |
| 56f               | Bolt for base Pos. 90                                 | 56C/182TC | 2/1-16 | 2        | Hex Hd. 1/2 -13 UNC x 1" SAE 5, Zinc plated     |                 |              | YES                |
|                   |                                                       | 213TC     | 18-24  | 2        | Hex Head 1/2 -13 UNC x 1.25" SAE 5, Zinc plated |                 |              | YES                |
| 56g               | Washer for bolt Pos. 56f                              |           | 2/1-36 | 2        | 1/2" SAE, Zinc plated                           |                 |              | YES                |
| 60                | Stack Compression Spring                              |           | 2-36   | 1        | Ø136 x 3.5mm                                    | 96439662        | 96547664     | No                 |
| 64                | Spacing Pipe                                          |           | 2/1-36 | ^^^      | Ø15.85 x Ø12.85 x 26.03mm                       | 410143          | 95061385     | No                 |
| 64a               | Spacing Pipe                                          |           | 2/1-36 | ^^^^     | Ø15.85 x Ø12.85 x 13.0mm                        | 96443611        |              | YES                |
|                   | Spacing Pipe (option for Graflon / Brz. 4a)           |           | 2/1-36 | ^^^^     | Use with TC Pos. 47a, Ø15 x Ø12.7 x 15.0mm      | 410142          |              | YES                |
| 64c               | Clamp, Splined                                        |           | 2/1-36 | 1        | Ø15 x Ø13.10 x Ø10.9 x 13mm                     | 96439668        |              | YES                |
| 64d               | Spacing Pipe                                          |           | 2/1-36 | ^^^^^    | Ø15 x Ø13.10 x Ø10.9 x 4.5mm                    | 96440292        |              | No                 |
| 64e               | Spacing Pipe (Low NPSH option only)                   |           | 2/1-36 | 2        | Ø15 x Ø13.10 x Ø10.9 x 10.0mm                   | 430022          | 95061595     | No                 |
| 64f               | Spacing Pipe (Low NPSH option only)                   |           | 2/1-36 | 1        | Ø15 x Ø13.10 x Ø10.9 x 7.3mm                    | 400233          | 95061862     | No                 |
| 64g               | Spacing Pipe (de-staging option only)                 |           | 2/1-36 | 1        | Ø15 x Ø13.10 x Ø10.9 x 27.0mm                   | 410062          | 95061513     | No                 |
| 65                | Neck Ring Retainer                                    |           | 2/1-36 | # stgs   | Ø43.5 x Ø34.0 x 3.6mm                           | 96438746        |              | YES                |
| 66                | Lock Washer Set for Shaft                             |           | 2/1-36 | 1        | Ø13.5 x Ø8.2 x 2.6mm                            | 96417297        |              | YES                |
| 66a               | Washer for Staybolt                                   |           | 2/1-36 | 4        | DIN 125A, Ø24 x Ø13 x 2.5mm, Delta Tone/Seal    | 96430377        |              | No                 |
| 67                | Lock Nut for Shaft                                    |           | 2/1-36 | 1        | 13mm x M8                                       | 00ID2061        |              | YES                |
| 69                | Spacing Pipe                                          |           | 2/1-36 | ⊖        | Ø15.85 x 12.85 x 2.0mm                          | 96440295        |              | No                 |
| 69a               | Spacing Pipe (de-staging option only)                 |           | 2/1    | 1        | Ø15.85 x 12.85 x 18.0mm                         | 400258          |              | No                 |
| 76                | Nameplate                                             |           | 2/1-36 | 1        | 304SS, 60 x 45mm                                | 96439820        |              | No                 |
| 76a               | Rivet for Nameplate                                   |           | 2/1-36 | 2        | 304SS, Ø3 x 5mm                                 | 96022882        |              | No                 |
| 77a               | Pump Head Cover for Back-to-Back, Tandem Seal         |           | 2/1-36 | 1        | Cast Stainless                                  | 96456293        |              | No                 |
| 77a               | Pump Head Cover for Cool Top® (option)                |           | 2/1-36 | 1        | Cast Stainless                                  | 96456294        |              | No                 |
| 79                | Disc / Plate for Cool Top®                            |           | 2/1-36 | 1        | Stainless                                       | 96456296        |              | No                 |
| 90                | Main Support Baseplate                                | 56C/182TC | 2/1-10 | 1        |                                                 | 96956336        |              | YES                |
|                   |                                                       | 213TC     | 18     | 1        | BPcpl.148, L=1219mm x W=381mm x H=107.9mm       | 96956346        |              | YES                |
|                   | Main Support Baseplate - Longer versions              | 182TC     | 11-16  | 1        | XLBP1 (139), L=1500mm x W=305mm x H=106.5mm     | 96956376        |              | YES                |
|                   |                                                       | 213TC     | 20-24  | 1        | XLBP2(148), L=1777.8mm x W=381mm x H=107.9mm    | 96956377        |              | YES                |
| 90a               | Bolt for motor to slider Pos. 90b                     | 56C       | 2/1-6  | 4        | Hex Head 5/16 -18 UNC x .75" SAE 5, Zinc plated |                 |              | YES                |
|                   |                                                       | 182TC     | 7-16   | 4        | Hex Head 3/8 -16 UNC x .5" SAE 5, Zinc plated   |                 |              | YES                |
|                   |                                                       | 213TC     | 18-24  | 4        | Hex Head 3/8 -16 UNC x 5/8" SAE 5, Zinc plated  |                 |              | YES                |
| 90b               | Motor support /slide rail                             | 56C       | 2/1-6  | 2        | GA, BP139, L=204mm x H=45.5mm x W=25.4mm        | 96956339        |              | YES                |
|                   |                                                       | 182TC     | 7-16   | 2        | GA, BP139, L=230mm x H=23.0mm x W=25.4mm        | 96956338        |              | YES                |
|                   |                                                       | 213TC     | 18-24  | 2        | GA, BP148, L=252mm x H=20mm x W=25.4mm          | 96956347        |              | YES                |
| 90c               | Support Bracket for Pump Cartridge                    |           | 2/1-36 | 1        | 304 SS, H=74mm CL of hole, GA                   | 95131235        |              | No                 |
| 90d               | Bolt for motor slide rail Pos. 90b to base Pos. 90    | 56C       | 2/1-6  | 4        | Hex Head 1/4 -20 UNC x 1" SAE 5, Zinc plated    |                 |              | YES                |
|                   |                                                       | 182/213TC | 7-24   | 4        | Hex Head 1/4 -20 UNC x 1.75" SAE 5, Zinc plated |                 |              | YES                |
| 90f               | Washer for motor bolt Pos. 90a to slide rail Pos. 90b | 56C       | 2/1-6  | 4        | 5/16" SAE, Zinc plated                          |                 |              | YES                |
|                   |                                                       | 182/213TC | 7-24   | 4        | 3/8" SAE, Zinc plated                           |                 |              | YES                |
| 100               | Priming/Vent Plug O-ring                              |           | 2/1-36 | ■        | EPDM, Ø16.3 x 2.4mm                             | 00ID1288        |              | YES                |
|                   |                                                       |           | 2/1-36 | ■        | FKM, Ø16.3 x 2.4mm                              | 00ID2231        |              | YES                |
| 100(a)            | Priming/Vent Plug O-ring (option)                     |           | 2/1-36 | ■        | FFKM, Ø16.3 x 2.4mm                             | 96428162        |              | YES                |
|                   |                                                       |           | 2/1-36 | ■        | FXM, Ø16.3 x 2.4mm                              | 96442869        |              | YES                |
| 102               | O-ring for Pos. 105b Back-to-Back                     |           | 2/1-36 | 1        | EPDM, Ø18 x 2.5mm                               | 00ID2041        |              | YES                |
|                   |                                                       |           | 2/1-36 | 1        | FKM, Ø17.86 x 2.62mm                            | 00ID2187        |              | YES                |

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

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# Parts List & Kits CR5-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> |                                                     |       |        |          |                                                    |                 |              |                    |
| 102               | O-ring for Pos. 105b Back-to-Back (option)          |       | 2/1-36 | 1        | FFKM, ø17.86 x 2.62mm                              | 96440281        |              | YES                |
| 103               | Stationary Seal Ring for 105b Back-to-Back          |       | 2/1-36 | 1        | FXM, ø17.86 x 2.62mm                               | 96472584        |              | No                 |
|                   | Stationary Seal Ring for 105b Back-to-Back (option) |       | 2/1-36 | 1        | TC, 12mm                                           | 980190          |              | YES                |
| 104               | Rotating Seal Ring for 105b Back-to-Back            |       | 2/1-36 | 1        | SiC, 12mm                                          | 980746          |              | YES                |
|                   | Rotating Seal Ring for 105b Back-to-Back (option)   |       | 2/1-36 | 1        | TC, 12mm                                           | 980163          |              | YES                |
|                   |                                                     |       | 2/1-36 | 1        | SiC, 12mm                                          | 980733          |              | YES                |
| 105(b)            | Shaft Seal HQBE                                     |       | 2/1-36 | ***      | SiC, Carbon with resin-impregnated, EPDM           | 96441879        |              | YES                |
|                   | Shaft Seal HQBV                                     |       | 2/1-36 | ***      | SiC, Carbon with resin-impregnated, FKM            | 96441880        |              | YES                |
|                   | Shaft Seal HQBK (option)                            |       | 2/1-36 | ***      | SiC, Carbon with resin-impregnated, FFKM           | 96489537        |              | YES                |
|                   | Shaft Seal HQQE                                     |       | 2/1-36 | ***      | SiC, SiC, EPDM                                     | 96441877        |              | YES                |
|                   | Shaft Seal HQQV                                     |       | 2/1-36 | ***      | SiC, SiC, FKM                                      | 96441878        |              | YES                |
|                   | Shaft Seal HQQF (option)                            |       | 2/1-36 | ***      | SiC, SiC, FXM                                      | 96472620        |              | YES                |
|                   | Shaft Seal HQQK (option)                            |       | 2/1-36 | ***      | SiC, SiC, FFKM                                     | 96464381        |              | YES                |
|                   | Shaft Seal HUBE                                     |       | 2/1-36 | ***      | TC, Carbon with resin-impregnated, EPDM            | 96441873        |              | YES                |
|                   | Shaft Seal HUBV                                     |       | 2/1-36 | ***      | TC, Carbon with resin-impregnated, FKM             | 96441874        |              | YES                |
|                   | Shaft Seal HUBF (option)                            |       | 2/1-36 | ***      | TC, Carbon with resin-impregnated, FXM             | 96481464        |              | YES                |
|                   | Shaft Seal HUBK (option)                            |       | 2/1-36 | ***      | TC, Carbon with resin-impregnated, FFKM            | 96481463        |              | YES                |
|                   | Shaft Seal HUUE                                     |       | 2/1-36 | ***      | TC, TC, EPDM                                       | 96441875        |              | YES                |
|                   | Shaft Seal HUUV                                     |       | 2/1-36 | ***      | TC, TC, FKM                                        | 96441876        |              | YES                |
|                   | Shaft Seal HUUF (option)                            |       | 2/1-36 | ***      | TC, TC, FXM                                        | 96475542        |              | YES                |
|                   | Shaft Seal HUUK (option)                            |       | 2/1-36 | ***      | TC, TC, FFKM                                       | 96467885        |              | YES                |
| 105b              | Shaft Seal/inboard for Back-to-Back OQQE            |       | 2/1-36 | 1        | SiC, SiC, EPDM                                     | 985200          |              | YES                |
|                   | Shaft Seal/inboard for Back-to-Back OQQV            |       | 2/1-36 | 1        | SiC, SiC, FKM                                      | 985760          |              | YES                |
|                   | Shaft Seal/inboard for Back-to-Back OUUE            |       | 2/1-36 | 1        | TC, TC, EPDM                                       | 985189          | 405145       | YES                |
|                   | Shaft Seal/inboard for Back-to-Back OUUV            |       | 2/1-36 | 1        | TC, TC, FKM                                        | 985190          | 405145       | YES                |
| 107               | O-ring for Pos. 105b Back-to-Back                   |       | 2/1-36 | 1        | EPDM, ø11.5 x 4.3mm                                | 00ID2040        |              | YES                |
|                   |                                                     |       | 2/1-36 | 1        | FKM, ø11.5 x 4.3mm                                 | 00ID2186        |              | YES                |
|                   | O-ring for Pos. 105b Back-to-Back (option)          |       | 2/1-36 | 1        | FFKM, ø11.5 x 4.3mm                                | 96440282        |              | YES                |
|                   |                                                     |       | 2/1-36 | 1        | FXM, ø11.5 x 3.18mm                                | 96472618        |              | No                 |
| 108               | Spring for Pos. 105b Back-to-Back                   |       | 2/1-36 | 1        | 12mm                                               | 980195          |              | YES                |
| 109(a)            | O-ring for Shaft Seal Pos. 105                      |       | 2/1-36 | 1        | EPDM, ø21.3 x 3.0mm                                | 00ID1798        |              | YES                |
|                   |                                                     |       | 2/1-36 | 1        | FKM, ø21.2 x 3.0mm                                 | 00ID2339        |              | YES                |
| 109b              | O-ring for Shaft Seal Pos. 105 (option)             |       | 2/1-36 | 1        | FFKM, ø23.47 x 2.62mm                              | 96464384        |              | YES                |
|                   |                                                     |       | 2/1-36 | 1        | FXM, ø22 x 2.75mm                                  | 96458111        |              | YES                |
| 111               | Seal Driver (small) for Pos. 105b Back-to-Back      |       | 2/1-36 | 1        |                                                    | 980192          |              | YES                |
| 112               | Seal Driver (large) for Pos. 105b Back-to-Back      |       | 2/1-36 | 1        |                                                    | 980191          |              | YES                |
| 112a              | Seal Drv threaded for 112, Pos. 105b Back-to-Back   |       | 2/1-36 | 1        |                                                    | 400203          |              | YES                |
| 113               | Set Screw for 112a, for Pos. 105b Back-to-Back      |       | 2/1-36 | 1        | 3mm x M5 x 6mm                                     | 00ID7392        |              | YES                |
| 117               | Air Vent Pipe for 118                               |       | 2/1-36 | 1        | G1/2, 316SS, 60 x 43mm                             | 96525189        |              | YES                |
| 117a              | Counter Nut for Pipe 117                            |       | 2/1-36 | 1        | NV24, internal G1/2, 316SS                         | 96506709        |              | YES                |
| 118               | Air Vent                                            |       | 2/1-36 | 1        | Air vent type 1511-AV - 5/6430                     | 96427483        |              | YES                |
| 146               | Allen Bolt for 147/148, for Pos. 105b Back-to-Back  |       | 2/1-36 | 1        | 2.5mm x M3 x 5mm                                   | 96462639        |              | YES                |
| 147               | Stationary Seal Retainer - Pos. 105b Back-to-Back   |       | 2/1-36 | 1        | NV36, 316SS                                        | 96457354        |              | YES                |
| 148               | Seal Retainer Washer - Pos. 105b Back-to-Back       |       | 2/1-36 | 1        | 316SS, ø36.0 x ø26.0 x ø23.0 x ø21.6 x 5.0mm       | 96457355        |              | YES                |
| 149               | Connecting Pipe Complete for Cool Top®              |       | 2/1-36 | 1        | NV36, 316SS, FXM & EPDM                            | 96460414        |              | YES                |
|                   |                                                     |       | 2/1-36 | 1        | NV36, 316SS, FXM & FKM                             | 96460415        |              | YES                |
| 149a              | Retainer for bushing                                |       | 2/1-36 | 1        | 316SS, ø22.0 x ø17.0 x 9mm                         | 96457639        |              | YES                |
| 149b              | Bushing                                             |       | 2/1-36 | 1        | Graflon®, ø21.2 x ø12.4 x 53mm                     | 96456297        |              | YES                |
| 149c              | Connecting Pipe less 109a&b and 149a&b              |       | 2/1-36 | 1        | NV36, 316SS                                        | 96456295        |              | YES                |
| 201               | Flange, Suction                                     |       | 2/1-15 | 1        | 1.5" 150#, 4 x 1/2"-13 UNC threaded flange, e-coat | 96922828        |              | No                 |
|                   |                                                     |       | 2/1-36 | 1        | 1.5" 300#, 4 x 3/4"-10 UNC threaded flange, e-coat | 96956145        |              | No                 |
| 201a              | Flange, Discharge                                   |       | 2/1-15 | 1        | 1" 150#, 4 x 1/2"-13 UNC threaded flange, e-coat   | 96922827        |              | No                 |
|                   |                                                     |       | 2/1-36 | 1        | 1" 300#, 4 x 5/8"-11 UNC threaded flange, e-coat   | 96956144        |              | No                 |
| 203               | Retaining ring for 201, 1.5" flange                 |       | 2/1-36 | 1        | Stainless, ø72.6 x 5                               | 96475395        |              | No                 |
| 203a              | Retaining ring for 201a, 1.0" flange                |       | 2/1-36 | 1        | Stainless, ø53.6 x 3.2                             | 96439718        |              | No                 |

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

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## Notes:

The first number is total number of impellers. An exceptions to this format is the CR5-1H and Low NPSH models.

**Examples: a CR5-1H is actually a CR5-2/1H, it has 2 chambers and 1 impeller (de-staged by 1) - it uses a 2 stage shaft.**

**Example: a Low NPSH CR5-3H is actually a CR5-3/2H, it has 3 chambers and 2 impellers (de-staged by 1) - it uses a 3 stage shaft.**

^^ 2 to 7 stage = # of Stages less 2  
 8 to 12 stage = # of stages less 3  
 13 to 16 stage = # of stages less 4  
 18 to 22 stage = # of stages less 5  
 24 to 26 stage = # of stages less 6  
 29 to 32 stage = # of stages less 7  
 36 stage = # of stages less 8  
 Exceptions to the above: Low NPSH model less 1 additional.  
 When de-staging by 2 impellers, replace top chamber Pos. 4 with Pos. 5a

^^^ 2 to 7 stage = use 1  
 8 to 12 stage = use 2  
 13 to 16 stage = use 3  
 18 to 22 stage = use 4  
 24 to 26 stage = use 5  
 29 to 32 stage = use 6  
 36 stage = use 7

^^^^ 1 used only in pumps with the following amount of stages  
 2, 4, 6, 8, 10, 12, 14, 16, 20, 22, & 24.

\* Standard use 1. Back-to-Back or Tandem pump version use 3

\*\* Standard use 1. Back-to-Back or Tandem pump version use 3

\*\*\* 1 used in Hxxx (Standard), 2 used in Pxxx (Tandem) pump version

⊖ Standard use 1. CR(I,N)5-2/1 replace with Pos. 69a

# stgs 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

■ Standard use 2. Back-to-Back or Tandem pump version use 6

1\* Standard use 1. When de-staging pump by 2 impellers, replace top chamber Pos. 4 with an additional Pos. 5a

## Keys 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                                                  |
| M    | ..... | International standard thread size designation (thread diameter in mm)                  |
| mm   | ..... | Millimeter                                                                              |
| MG   | ..... | Identifies Grundfos motor type/size                                                     |
| N    | ..... | Stainless                                                                               |
| NBR  | ..... | Buna - N (also known as Nitrile) – an elastic substance similar to rubber               |
| NEMA | ..... | National Electrical Manufacturers Association                                           |
| PTFE | ..... | Teflon                                                                                  |
| SiC  | ..... | Silicon Carbide                                                                         |
| TC   | ..... | Tungsten Carbide                                                                        |
| UNC  | ..... | Unified National Coarse – a standard for threads on bolts                               |

# Spare Part Kits CR5-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)5 SiC Bearing |                                              | Kit No. 96455096 |                           |    |    |    |    |    |  |
|-----------------------|----------------------------------------------|------------------|---------------------------|----|----|----|----|----|--|
| WEAR PARTS KIT 2-7    |                                              | Kit No. 96455097 |                           |    |    |    |    |    |  |
| WEAR PARTS KIT 8-12   |                                              | Kit No. 96455098 |                           |    |    |    |    |    |  |
| WEAR PARTS KIT 13-16  |                                              | Kit No. 96455099 |                           |    |    |    |    |    |  |
| WEAR PARTS KIT 17-22  |                                              | Kit No. 96455101 |                           |    |    |    |    |    |  |
| WEAR PARTS KIT 23-26  |                                              | Kit No. 96455101 |                           |    |    |    |    |    |  |
| WEAR PARTS KIT 27-36  |                                              | Kit No. 96455100 |                           |    |    |    |    |    |  |
| Pos. No.              | Description                                  | Material No.     | Qty. Included in each Kit |    |    |    |    |    |  |
| 4a                    | Chamber N Cpl. w/Pos.45 & 65 & SiC Bearing   | 96437645         | 1                         | 2  | 3  | 4  | 5  | 6  |  |
| 39                    | Gasket for Oval Flange, 95 x 55 x ø35 x 2mm  | 400189           | 2                         | 2  | 2  | 2  | 2  | 2  |  |
| 45                    | Neck Ring, ø50.45 x ø35 x .7mm, PTFE         | 96436720         | 6                         | 10 | 13 | 18 | 21 | 30 |  |
| 47a                   | Bearing Ring/Spacer, SiC 150, 13mm           | 96437488         | 1                         | 2  | 3  | 4  | 5  | 6  |  |
| 64a                   | Spacing Pipe, ø15.85 x ø12.85 x 13.0mm       | 96443611         | 1                         | 2  | 3  | 4  | 5  | 6  |  |
| 64c                   | Clamp, Splined, ø15 x ø13.10 x ø10.9 x 13mm  | 96439668         | 1                         | 1  | 1  | 1  | 1  | 1  |  |
| 65                    | Neck Ring Retainer, N, ø52.5 x ø36.7 x 5.3mm | 96436722         | 6                         | 10 | 13 | 18 | 21 | 30 |  |
| 66                    | Lock Washer Set of 2, ø13.5 x ø8.2 x 2.6mm   | 96417297         | 1                         | 1  | 1  | 1  | 1  | 1  |  |
| 67                    | Lock Nut, 13mm x M8                          | 00ID2061         | 1                         | 1  | 1  | 1  | 1  | 1  |  |

| CR(I, N)5 Grafion Bearing |                                              | Kit No. 96460141 |                           |    |    |    |    |    |  |
|---------------------------|----------------------------------------------|------------------|---------------------------|----|----|----|----|----|--|
| WEAR PARTS KIT 2-7        |                                              | Kit No. 96460142 |                           |    |    |    |    |    |  |
| WEAR PARTS KIT 8-12       |                                              | Kit No. 96455113 |                           |    |    |    |    |    |  |
| WEAR PARTS KIT 13-16      |                                              | Kit No. 96455114 |                           |    |    |    |    |    |  |
| WEAR PARTS KIT 17-22      |                                              | Kit No. 96460143 |                           |    |    |    |    |    |  |
| WEAR PARTS KIT 23-26      |                                              | Kit No. 96460143 |                           |    |    |    |    |    |  |
| WEAR PARTS KIT 27-36      |                                              | Kit No. 96455115 |                           |    |    |    |    |    |  |
| Pos. No.                  | Description                                  | Material No.     | Qty. Included in each Kit |    |    |    |    |    |  |
| 4a                        | Chamber N Cpl. w/Pos.45 & 65 & Grafion Brg.  | 96440619         | 1                         | 2  | 3  | 4  | 5  | 6  |  |
| 39                        | Gasket for Oval Flange, 95 x 55 x ø35 x 2mm  | 400189           | 2                         | 2  | 2  | 2  | 2  | 2  |  |
| 45                        | Neck Ring, ø50.45 x ø35 x .7mm, PTFE         | 96436720         | 6                         | 10 | 13 | 18 | 21 | 30 |  |
| 47a                       | Bearing Ring/Spacer, TC, 11.0mm              | 410121           | 1                         | 2  | 3  | 4  | 5  | 6  |  |
| 64a                       | Spacing Pipe, ø15.85 x ø12.85 x 15.0mm       | 00410142         | 1                         | 2  | 3  | 4  | 5  | 6  |  |
| 64c                       | Clamp, Splined, ø15 x ø13.10 x ø10.9 x 13mm  | 96439668         | 1                         | 1  | 1  | 1  | 1  | 1  |  |
| 65                        | Neck Ring Retainer, N, ø52.5 x ø36.7 x 5.3mm | 96436722         | 6                         | 10 | 13 | 18 | 21 | 30 |  |
| 66                        | Lock Washer Set of 2, ø13.5 x ø8.2 x 2.6mm   | 96417297         | 1                         | 1  | 1  | 1  | 1  | 1  |  |
| 67                        | Lock Nut, 13mm x M8                          | 00ID2061         | 1                         | 1  | 1  | 1  | 1  | 1  |  |

| CR(I)5 Bronze Bearing |                                              | Kit No. 96455103 |                           |    |    |    |    |    |  |
|-----------------------|----------------------------------------------|------------------|---------------------------|----|----|----|----|----|--|
| WEAR PARTS KIT 2-7    |                                              | Kit No. 96460106 |                           |    |    |    |    |    |  |
| WEAR PARTS KIT 8-12   |                                              | Kit No. 96455107 |                           |    |    |    |    |    |  |
| WEAR PARTS KIT 13-16  |                                              | Kit No. 96455108 |                           |    |    |    |    |    |  |
| WEAR PARTS KIT 17-22  |                                              | Kit No. 96460107 |                           |    |    |    |    |    |  |
| WEAR PARTS KIT 23-26  |                                              | Kit No. 96460107 |                           |    |    |    |    |    |  |
| WEAR PARTS KIT 27-36  |                                              | Kit No. 96455109 |                           |    |    |    |    |    |  |
| Pos. No.              | Description                                  | Material No.     | Qty. Included in each Kit |    |    |    |    |    |  |
| 4a                    | Chamber N Cpl. w/Pos.45 & 65 & Bronze Brg.   | 96440616         | 1                         | 2  | 3  | 4  | 5  | 6  |  |
| 39                    | Gasket for Oval Flange, 95 x 55 x ø35 x 2mm  | 400189           | 2                         | 2  | 2  | 2  | 2  | 2  |  |
| 45                    | Neck Ring, ø50.45 x ø35 x .7mm, PTFE         | 96436720         | 6                         | 10 | 13 | 18 | 21 | 30 |  |
| 47a                   | Bearing Ring/Spacer, TC, 11.0mm              | 410121           | 1                         | 2  | 3  | 4  | 5  | 6  |  |
| 64a                   | Spacing Pipe, ø15.85 x ø12.85 x 15.0mm       | 00410142         | 1                         | 2  | 3  | 4  | 5  | 6  |  |
| 64c                   | Clamp, Splined, ø15 x ø13.10 x ø10.9 x 13mm  | 96439668         | 1                         | 1  | 1  | 1  | 1  | 1  |  |
| 65                    | Neck Ring Retainer, N, ø52.5 x ø36.7 x 5.3mm | 96436722         | 6                         | 10 | 13 | 18 | 21 | 30 |  |
| 66                    | Lock Washer Set of 2, ø13.5 x ø8.2 x 2.6mm   | 96417297         | 1                         | 1  | 1  | 1  | 1  | 1  |  |
| 67                    | Lock Nut, 13mm x M8                          | 00ID2061         | 1                         | 1  | 1  | 1  | 1  | 1  |  |

| STANDARD SHAFT SEAL KIT, BALANCED CARTRIDGE           |                                      | Kit No. 96455088 |                           |   |   |   |   |   |   |
|-------------------------------------------------------|--------------------------------------|------------------|---------------------------|---|---|---|---|---|---|
| (Maximum allowed working PSI is 435)                  |                                      | Kit No. 96491375 |                           |   |   |   |   |   |   |
| (Tandem Seal option Pumps require 2 of each Seal Kit) |                                      | Kit No. 96455089 |                           |   |   |   |   |   |   |
|                                                       |                                      | Kit No. 96455086 |                           |   |   |   |   |   |   |
|                                                       |                                      | Kit No. 96533327 |                           |   |   |   |   |   |   |
|                                                       |                                      | Kit No. 96533326 |                           |   |   |   |   |   |   |
|                                                       |                                      | Kit No. 96455087 |                           |   |   |   |   |   |   |
| Pos. No.                                              | Description                          | Material No.     | Qty. Included in each Kit |   |   |   |   |   |   |
| 105                                                   | HQBE                                 | 96441879         | 1                         |   |   |   |   |   |   |
|                                                       | HQBK                                 | 96489537         |                           | 1 |   |   |   |   |   |
|                                                       | HQBV                                 | 96441880         |                           |   | 1 |   |   |   |   |
|                                                       | HQQE                                 | 96441877         |                           |   |   | 1 |   |   |   |
|                                                       | HQQF                                 | 96472620         |                           |   |   |   | 1 |   |   |
|                                                       | HQQK                                 | 96498109         |                           |   |   |   |   | 1 |   |
|                                                       | HQQV                                 | 96441878         |                           |   |   |   |   |   | 1 |
| N/A                                                   | Grinding Device Tool for Emery Cloth | 370711           | 1                         | 1 | 1 | 1 | 1 | 1 | 1 |
| N/A                                                   | Emery Cloth                          | 370712           | 1                         | 1 | 1 | 1 | 1 | 1 | 1 |

| STACK KITS |              |
|------------|--------------|
| Model      | Material No. |
| CR(I)5-2   | 96453575     |
| CR(I)5-3   | 96453576     |
| CR(I)5-4   | 96453577     |
| CR(I)5-5   | 96453578     |
| CR(I)5-6   | 96453579     |
| CR(I)5-7   | 96453580     |
| CR(I)5-8   | 96453581     |
| CR(I)5-9   | 96453582     |
| CR(I)5-10  | 96453583     |
| CR(I)5-11  | 96453584     |
| CR(I)5-12  | 96453585     |
| CR(I)5-13  | 96453586     |
| CR(I)5-14  | 96453587     |
| CR(I)5-15  | 96453588     |
| CR(I)5-16  | 96453589     |
| CR(I)5-18  | 96453590     |
| CR(I)5-20  | 96453591     |
| CR(I)5-22  | 96453592     |
| CR(I)5-24  | 96453593     |
| CR(I)5-26  | 96453594     |
| CR(I)5-29  | 96453595     |
| CR(I)5-32  | 96453596     |
| CR(I)5-36  | 96453597     |

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

**Spare Part Kits** (continued)

|                                                                                                                                              |                                      |              |                           |   |   |   |   |   |   |   |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------|---------------------------|---|---|---|---|---|---|---|
| OPTIONAL SHAFT SEAL KIT, BALANCED CARTRIDGE<br>(Maximum allowed working PSI is 435)<br>(Tandem Seal option Pumps require 2 of each Seal Kit) |                                      |              | Kit No. 96455082          |   |   |   |   |   |   |   |
|                                                                                                                                              |                                      |              | Kit No. 96533323          |   |   |   |   |   |   |   |
|                                                                                                                                              |                                      |              | Kit No. 96533322          |   |   |   |   |   |   |   |
|                                                                                                                                              |                                      |              | Kit No. 96455083          |   |   |   |   |   |   |   |
|                                                                                                                                              |                                      |              | Kit No. 96455084          |   |   |   |   |   |   |   |
|                                                                                                                                              |                                      |              | Kit No. 96533325          |   |   |   |   |   |   |   |
|                                                                                                                                              |                                      |              | Kit No. 96533324          |   |   |   |   |   |   |   |
|                                                                                                                                              |                                      |              | Kit No. 96455085          |   |   |   |   |   |   |   |
| Pos. No.                                                                                                                                     | Description                          | Material No. | Qty. Included in each Kit |   |   |   |   |   |   |   |
| 105                                                                                                                                          | HUBE                                 | 96441873     | 1                         |   |   |   |   |   |   |   |
|                                                                                                                                              | HUBF                                 | 96481464     |                           | 1 |   |   |   |   |   |   |
|                                                                                                                                              | HUBK                                 | 96481463     |                           |   | 1 |   |   |   |   |   |
|                                                                                                                                              | HUBV                                 | 96441874     |                           |   |   | 1 |   |   |   |   |
|                                                                                                                                              | HUUE                                 | 96441875     |                           |   |   |   | 1 |   |   |   |
|                                                                                                                                              | HUUF                                 | 96475542     |                           |   |   |   |   | 1 |   |   |
|                                                                                                                                              | HUUK                                 | 96498108     |                           |   |   |   |   |   | 1 |   |
|                                                                                                                                              | HUUV                                 | 96441876     |                           |   |   |   |   |   |   | 1 |
| N/A                                                                                                                                          | Grinding Device Tool for Emery Cloth | 370711       | 1                         | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| N/A                                                                                                                                          | Emery Cloth                          | 370712       | 1                         | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| INBOARD SHAFT SEAL & Gasket KIT, Back to Back OQQE                                     |                                                    | Kit No. 96533360 |                           |   |   |   |
|----------------------------------------------------------------------------------------|----------------------------------------------------|------------------|---------------------------|---|---|---|
| INBOARD SHAFT SEAL & Gasket KIT, Back to Back OQQV                                     |                                                    | Kit No. 96533361 |                           |   |   |   |
| INBOARD SHAFT SEAL & Gasket KIT, Back to Back OQQW                                     |                                                    | Kit No. 96989183 |                           |   |   |   |
| INBOARD SHAFT SEAL & Gasket KIT, Back to Back OQQK                                     |                                                    | Kit No. 96536168 |                           |   |   |   |
| INBOARD SHAFT SEAL & Gasket KIT, Back to Back OQUE/V                                   |                                                    | Kit No. 405145   |                           |   |   |   |
| (An HQQx or HUUX seal kit must also be used for respectively to complete seal repairs) |                                                    |                  |                           |   |   |   |
| Pos. No.                                                                               | Description                                        | Material No.     | Qty. Included in each Kit |   |   |   |
| 37                                                                                     | Sleeve O-ring, EPDM, Ø137.5 x 3.3mm                | 96438743         | 3                         |   |   |   |
| 38, 100(a)                                                                             | Sleeve O-ring, FKM, Ø137.5 x 3.3mm                 | 96438744         |                           | 3 |   |   |
|                                                                                        | Drain Plug O-ring, EPDM, Ø16.3 x 2.4mm             | 00ID1288         | 7                         |   |   |   |
| 102                                                                                    | Drain Plug O-ring, FKM, Ø16.3 x 2.4mm              | 00ID2231         |                           | 7 |   |   |
|                                                                                        | O-ring, EPDM, Ø18 x 2.5mm                          | 00ID2041         | 1                         |   |   | 1 |
| 103                                                                                    | O-ring, FKM, Ø17.86 x 2.62mm                       | 00ID2187         |                           | 1 | 1 |   |
|                                                                                        | O-ring, FFKM, Ø17.86 x 2.62mm                      | 96440281         |                           |   |   | 1 |
| 104                                                                                    | Stationary Seal Ring, SiC,12mm                     | 980746           | 1                         |   |   |   |
|                                                                                        | Stationary Seal Ring, TC,12mm                      | 980190           |                           |   |   | 1 |
| 107                                                                                    | Rotating Seal Ring, SiC, 12mm                      | 980733           | 1                         | 1 | 1 |   |
|                                                                                        | Rotating Seal Ring, TC, 12mm                       | 989163           |                           |   |   | 1 |
| 108                                                                                    | O-ring, EPDM, Ø11.5 x 4.3mm                        | 00ID2040         | 1                         |   |   |   |
|                                                                                        | O-ring, FKM, Ø11.5 x 4.3mm                         | 00ID2186         |                           | 1 | 1 | 1 |
| 109a                                                                                   | O-ring, FFKM, Ø11.5 x 4.3mm                        | 96440282         |                           |   |   | 1 |
|                                                                                        | Spring, 12mm                                       | 980195           | 1                         | 1 | 1 | 1 |
| 111                                                                                    | O-ring, EPDM, Ø21.3 x 3.0mm                        | 00ID1798         | 1                         |   |   |   |
|                                                                                        | O-ring, FKM, Ø21.2 x 3.0mm                         | 00ID2339         |                           | 1 | 1 |   |
| 112                                                                                    | O-ring, FFKM, Ø23.47 x 2.62mm                      | 96464384         |                           |   |   | 1 |
|                                                                                        | Driver for pos.104                                 | 980192           | 1                         | 1 | 1 | 1 |
| 112a                                                                                   | Driver for pos.111                                 | 980191           | 1                         | 1 | 1 | 1 |
|                                                                                        | Driver for pos.112                                 | 400203           | 1                         | 1 | 1 | 1 |
| 113                                                                                    | Set Screw for pos.112a                             | 00ID7392         | 2                         | 2 | 2 | 2 |
| 146                                                                                    | Allen Bolt for pos.147 & 148, 2.5mm x M3 x 5mm     | 96462639         | 3                         | 3 | 3 | 3 |
| 147                                                                                    | Stationary Seal Retainer - NV36, 316SS             | 96457354         |                           |   | 1 | 1 |
| 148                                                                                    | Seal Retainer Washer -316SS, Ø36.0 x Ø21.6 x 5.0mm | 96457355         |                           |   | 1 | 1 |
| N/A                                                                                    | Grinding Device Tool for Emery Cloth               | 370711           |                           |   |   | 1 |
| N/A                                                                                    | Emery Cloth                                        | 370712           |                           |   |   | 1 |

|                   |  |         |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| GASKET KIT (EPDM) |  | Kit No. |  | 96455090 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| NEMA COUPLING KIT                                |                                     | ø15.8/ø12                                  | Kit No.                   | 415314   |          |   |  |  |
|--------------------------------------------------|-------------------------------------|--------------------------------------------|---------------------------|----------|----------|---|--|--|
|                                                  |                                     | ø22.225/ø12                                | Kit No.                   | 97919247 |          |   |  |  |
|                                                  |                                     | ø28.5/ø12                                  | Kit No.                   | 415315   |          |   |  |  |
|                                                  |                                     | ø34.9/ø12                                  | Kit No.                   |          | 96478700 |   |  |  |
| Pos. No.                                         | Description                         | Material No.                               | Qty. Included in each Kit |          |          |   |  |  |
| 9                                                | Allen Screw, M6 x 20mm, Delta Seal  | 00ID7899                                   | 4                         | 4        |          |   |  |  |
|                                                  | Allen Screw, M8 x 25mm, Delta Seal  | 00ID7900                                   |                           |          | 4        | 4 |  |  |
|                                                  | Allen Screw, M10 x 25mm, Delta Seal | 00ID7901                                   |                           |          |          |   |  |  |
| 10                                               | Shaft Pin, ø5 x 26mm, Stainless     | 310192                                     | 1                         | 1        | 1        | 1 |  |  |
|                                                  | 10a                                 | Coupling Half, 56C, 1/3 - 2HP. ø15.8 / ø12 | 410108                    | 2        |          |   |  |  |
| Coupling Half, 143/5TC, 1/3 - 3HP. ø22.225 / ø12 |                                     | 97851501                                   |                           | 2        | 2        |   |  |  |
| Coupling Half, 182/184TC, 3-SHP. ø28.5/ø12       |                                     | 410109                                     |                           |          | 2        |   |  |  |
| Coupling Half, 213TC, 7.5-10HP. ø34.9/ø12        |                                     | 96472175                                   |                           |          |          | 2 |  |  |

# Spare Part Kits • Accessories **CR5-H**

## Spare Part Kits (continued)

| COUPLING GUARD KIT |                                            | Kit No. 96505131 |                           |
|--------------------|--------------------------------------------|------------------|---------------------------|
| NEMA 56C, 1/3-2HP  |                                            | Kit No. 96505132 |                           |
| Pos. No.           | Description                                | Material No.     | Qty. Included in each Kit |
| 7                  | Coupling Guard, W=127mm x H=90.5mm         | 96438137         | 2                         |
|                    | Coupling Guard, W=157mm x H=171mm          | 96438138         | 2                         |
| 7a                 | Screw comb.slot torx/straight slot 4 x 8mm | 96488481         | 4                         |

| Air Vent Kit - Horizontal Units |                                           | Kit No. 91136720 |                           |
|---------------------------------|-------------------------------------------|------------------|---------------------------|
| CR-H, CRN-H1S to 20             |                                           | Kit No. 91136720 |                           |
| 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                         |

| Connecting Pipe for Cool Top |                                                  | Kit No. 96578704 |                           |
|------------------------------|--------------------------------------------------|------------------|---------------------------|
| (EPDM, FKM & FXM)            |                                                  | Kit No. 96578704 |                           |
| Pos. No.                     | Description                                      | Material No.     | Qty. Included in each Kit |
| 109a                         | O-ring for Pos.105(b) &149, EPDM, Ø21.3 x 3.0mm  | 00ID1798         | 1                         |
|                              | O-ring for Pos.105(b) &149, FKM, Ø21.2 x 3.0mm   | 00ID2339         | 1                         |
| 109b                         | O-ring for Pos.105(b) &149, FXM, Ø22.0 x 2.75mm  | 96458111         | 1                         |
| 149a                         | Retainer for bushing, 316SS, Ø22.0 x Ø17.0 x 9mm | 96457639         | 1                         |
| 149b                         | Bushing, Graflon®, Ø21..2 x Ø12.4 x 53mm         | 96456297         | 1                         |
| 149c                         | Connecting pipe, NV36, 316SS                     | 96456295         | 1                         |

## Accessories

| ANSI COMPANION FLANGES FOR CR-H, CRN-H1S to 20       |                                              | Kit No. 97642565 |                           |
|------------------------------------------------------|----------------------------------------------|------------------|---------------------------|
| 1-1/2" and 1" Threaded CI Black for GA 125 Lb. Class |                                              | Kit No. 97642565 |                           |
| Pos. No.                                             | Description                                  | Material No.     | Qty. Included in each Kit |
| N/A                                                  | Hex Head Cap Screw/Bolt 1/2"-13X 2" UNC ZP   | 97743748         | 8                         |
| N/A                                                  | Flange ANSI #150 1.5" NPT. Cast Iron - Black | 91123167         | 1                         |
| N/A                                                  | Flange ANSI #150 1" NPT. Cast Iron - Black   | 96983489         | 1                         |
| N/A                                                  | Gasket 1 1/2" Full Face 150 Lb. ANSI         | 91123168         | 1                         |
| N/A                                                  | Gasket 1" Full Face 150 Lb. ANSI             | 97692916         | 1                         |

| ANSI COMPANION FLANGES FOR CR-H, CRN-H1S to 20       |                                                | Kit No. 96967594 |                           |
|------------------------------------------------------|------------------------------------------------|------------------|---------------------------|
| 1-1/2" and 1" Threaded CI Black for GA 250 Lb. Class |                                                | Kit No. 96967594 |                           |
| Pos. No.                                             | Description                                    | Material No.     | Qty. Included in each Kit |
| N/A                                                  | Hex Head Cap Screw/Bolt 3/4"-10 X 2.5" UNC ZP  | 91137423         | 4                         |
| N/A                                                  | Hex Head Cap Screw/Bolt 5/8"-11 X 2.25" UNC ZP | 91130816         | 4                         |
| N/A                                                  | Flange ANSI #300 1.5" NPT. Cast Iron - Black   | 96983494         | 1                         |
| N/A                                                  | Flange ANSI #300 1"NPT. Cast Iron - Black      | 96983493         | 1                         |
| N/A                                                  | Gasket 1 1/2" Full Face 300 Lb. ANSI           | 97694408         | 1                         |
| N/A                                                  | Gasket 1" Full Face 300 Lb. ANSI               | 97694407         | 1                         |

| ANSI COMPANION FLANGES FOR CR-H, CRN-H1S to 20  |                                           | Kit No. 97698645 |                           |
|-------------------------------------------------|-------------------------------------------|------------------|---------------------------|
| 1-1/2" and 1" Threaded Stainless, 150 Lb. Class |                                           | Kit No. 97698645 |                           |
| Pos. No.                                        | Description                               | Material No.     | Qty. Included in each Kit |
| N/A                                             | Hex Head Cap Screw/Bolt 1/2"-13X 2" 316SS | 97743748         | 8                         |
| N/A                                             | Flange ANSI #150 1.5" NPT 316SS           | 96983498         | 1                         |
| N/A                                             | Flange ANSI #150 1" NPT 316SS             | 96983497         | 1                         |
| N/A                                             | Gasket 1 1/2" Full Face 150 Lb. ANSI      | 97694409         | 1                         |
| N/A                                             | Gasket 1" Full Face 150 Lb. ANSI          | 97692916         | 1                         |

| ANSI COMPANION FLANGES FOR CR-H, CRN-H1S to 20  |                                               | Kit No. 97698646 |                           |
|-------------------------------------------------|-----------------------------------------------|------------------|---------------------------|
| 1-1/2" and 1" Threaded Stainless, 300 Lb. Class |                                               | Kit No. 97698646 |                           |
| Pos. No.                                        | Description                                   | Material No.     | Qty. Included in each Kit |
| N/A                                             | Hex Head Cap Screw/Bolt 3/4"-10 X 2.5" 316SS  | 91143035         | 4                         |
| N/A                                             | Hex Head Cap Screw/Bolt 5/8"-11 X 2.25" 316SS | 91143029         | 4                         |
| N/A                                             | Flange ANSI #300 1.5" NPT 316SS               | 96983496         | 1                         |
| N/A                                             | Flange ANSI #300 1"NPT 316SS                  | 96983495         | 1                         |
| N/A                                             | Gasket 1 1/2" Full Face 300 Lb. ANSI          | 97694408         | 1                         |
| N/A                                             | Gasket 1" Full Face 300 Lb. ANSI              | 97694407         | 1                         |

## Accessories *(continued)*

| Baseplate Kit |                                                             | Kit No.      |                           |   |   |   |
|---------------|-------------------------------------------------------------|--------------|---------------------------|---|---|---|
| 139           | 56C for GA                                                  | 97534517     |                           |   |   |   |
| 182TC for GA  |                                                             | Kit No.      | 97534518                  |   |   |   |
| XLBP1         | 56C for GA                                                  | Kit No.      | 97534573                  |   |   |   |
| 182TC for GA  |                                                             | Kit No.      | 97534574                  |   |   |   |
| Pos. No.      | Description                                                 | Material No. | Qty. Included in each Kit |   |   |   |
| 90            | Baseplate Cpl. 139, L=991* x W=305* x H=106.5*              | 96956336     | 1                         | 1 |   |   |
|               | Baseplate Cpl. XLBP1, L=1500* x W=305* x H=106.5*           | 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.

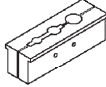
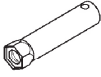
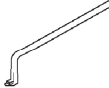
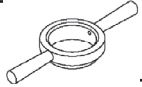
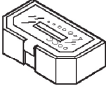
| Baseplate Kit |                                                             | Kit No.      |                           |   |   |  |
|---------------|-------------------------------------------------------------|--------------|---------------------------|---|---|--|
| 148           | 213TC for GA                                                | 97534520     |                           |   |   |  |
| 213TC for GA  |                                                             | Kit No.      | 97573875                  |   |   |  |
| XLBP2         | 213TC for GA                                                | 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                         |   |   |  |
|               | 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) | 96983859     | 1                         |   | 1 |  |
| N/A           | Hardware Kit -96983859 (consists of pos.56f, g, 90a,d& f)** | 97501482     | 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 5/8" 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 |   |  |
| 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 kits 97501482 is also available for sale.

# Spare Part Kits • Special Tools **CR5-H**

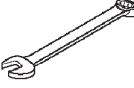
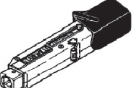
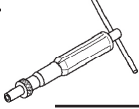
## Special Tools

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.           |  |
| 00SV2007 | <b>Tubular Box Spanner for Shaft Seal 36.1 mm</b><br>Used to install and remove the shaft seal.<br>Fits a 1/2" drive ratchet. |    |
| 00SV0239 | <b>Puller for Neck Ring</b><br>Used to remove the Neck Ring from Chamber.                                                     |  |
| 00SV2014 | <b>Circlip Pliers for Flange Lock Ring</b><br>Used to remove the Lock Ring for the Flange.                                    |    |
| 00SV2066 | <b>Tool for Outer Sleeve</b><br>Used to press sleeve into base. (optional)                                                    |  |
| 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"                                                    |   |

## 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>00SV0056<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 17 mm for M10<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                                                 | <b>Ratchet Spanner for all Adapters</b><br>9 mm x 12 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>00SV0270<br>00SV0271<br>00SV0524 | <b>Ring Spanner</b><br>NV 10 mm for M6<br>NV 13 mm for M8<br>NV 17 mm for M10<br>NV 19 mm for M12<br>NV 24 mm for M16                              |    |
| 00SV2013                                                 | <b>Socket Spanner</b><br>NV 13 mm for M8, 9 x 12                                                                                                   |    |



be think innovate

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



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