



# CR15-H

## Parts List & Kits

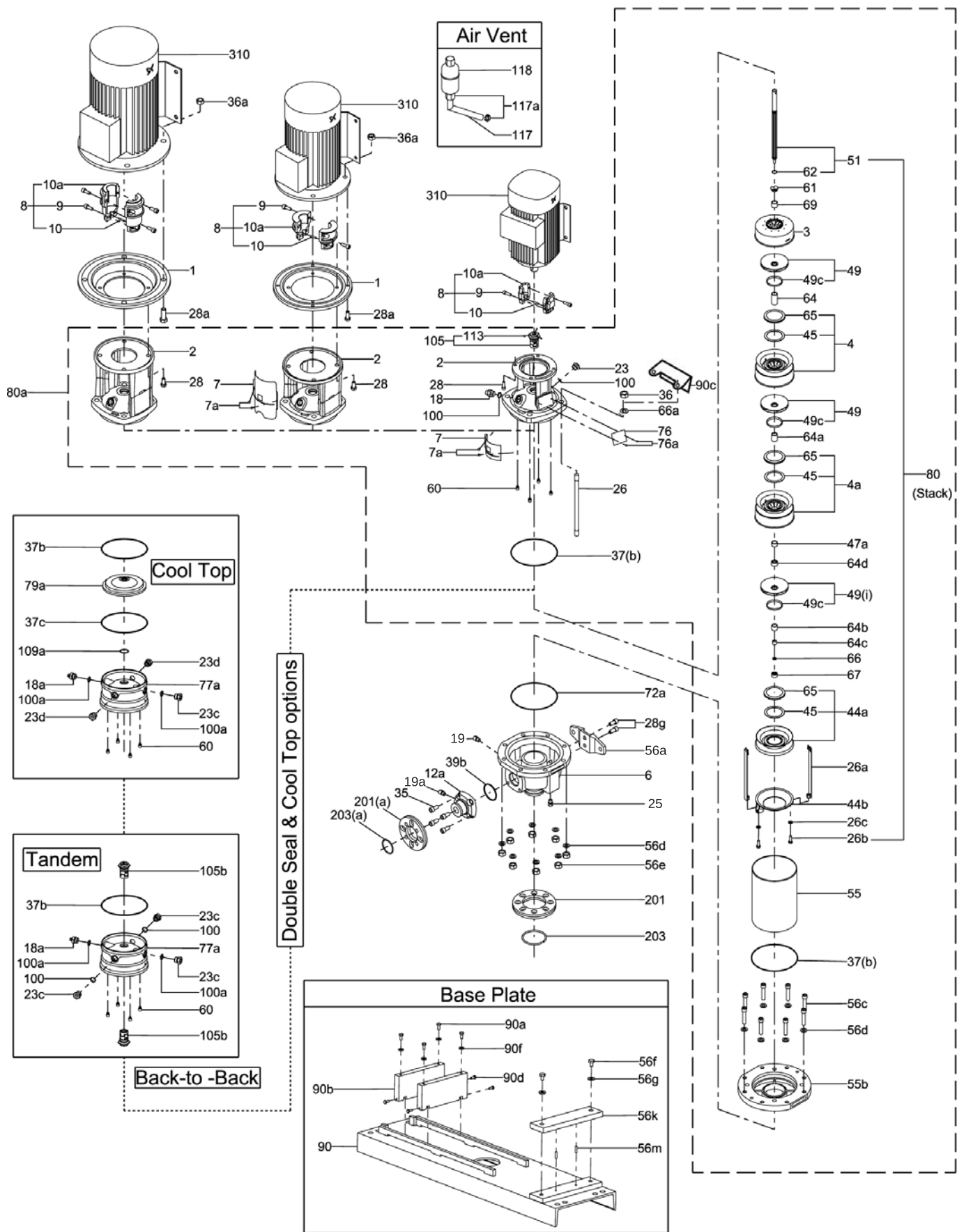
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# Exploded View CR15-H



TM047924

# Parts List & Kits CR15-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                        |       | 4-6    | 1        | For NEMA, 213/215TC, 7.5 - 10HP                         | 96476208        |              | No                 |
| 2                 | Motor Stool                                    |       | 7-10   | 1        | For NEMA, F254TC, 15-20HP                               | 96486329        |              | No                 |
|                   |                                                |       | 2/1    | 1        | NEMA, 56C, .75 - 2.0HP                                  | 96486287        |              | No                 |
|                   |                                                |       | 2-3    | 1        | NEMA, 182TC, 3 - 5HP, (High)                            | 96486311        |              | No                 |
|                   |                                                |       | 4-6    | 1        | Add Pos.1 NEMA 213/215TC, 7.5-10HP (High)               | 96486311        |              | No                 |
|                   |                                                |       | 7-10   | 1        | Add Pos. 1 for NEMA 254/256TC, 15-20HP                  | 96486311        |              | No                 |
|                   |                                                |       | 12     | 1        | NEMA, 284/286TSC, 25HP                                  | 96486293        |              | No                 |
| 3                 | Chamber, Top, Complete with guide vane         |       | 2-17   | *1       | Slotted to accept Strap, pos. 26a                       | 96487786        |              | No                 |
| 3a                | Chamber N, Top, without guide vane             |       | 2/1    | *1       | Slotted to accept Strap, pos. 26a                       | 96491222        |              | No                 |
| 3b                | Chamber without guide vane                     |       | 3-17   | *1       |                                                         | 330015          |              | No                 |
| 4                 | Chamber complete with Pos. 45 & 65             |       | 3-17   | ^^^      | PTFE Pos.45                                             | 96475765        |              | No                 |
| 4a                | Chamber N Cpl. w/Pos. 45 & 65 & Bearing        |       | 2/1-17 | ^^^^     | Silicon Carbide Brg, PTFE Pos. 45                       | 96747342        |              | YES*               |
|                   | Chamber N Cpl. w/Pos. 45 & 65 & Brg. (option)  |       | 2/1-17 | ^^^^     | Graflon Bearing, PTFE Pos. 45                           | 96492510        |              | YES                |
|                   | Chamber N Cpl. w/Pos. 45 & 65 & Brg. (option)  |       | 2/1-17 | ^^^^     | Bronze Bearing, PTFE Pos. 45                            | 96492512        |              | YES                |
| 6                 | Volute, suction / discharge base               |       | 2/1-17 | 1        | GA, 1.5" suction (OD=76mm), 4 hole dis. adapter         | 95922001        |              | No                 |
|                   | Volute, option larger suction & discharge      |       | 2/1-17 | 1        | G05/G22, 2" suction (OD=90mm) 4 hole dis.adapter        | 95922000        |              | No                 |
|                   |                                                |       | 2/1-17 | 1        | GB&C/G10/G50/G60, 3" suc. (OD=120), 6 hole dis. adap.   | 95922002        |              | No                 |
| 7                 | Coupling Guard                                 |       | 2/1    | 2        | NEMA-56C                                                | 96491002        |              | YES                |
| 7a                | Screw for Coupling Guard                       |       | 2-17   | 2        | NEMA, 182-215TC (High), 254TC-286TSC                    | 96490656        |              | YES                |
|                   |                                                |       | 1-17   | 4        | Screw comb. slot torx/straight slot 4 x 8mm             | 96488481        |              | YES                |
| 9                 | Allen Screw                                    |       | 2/1    | 4        | M6 x 20mm, Delta Tone/Seal                              | 001D7899        |              | YES                |
|                   |                                                |       | 2-17   | 4        | M10 x 25mm, Delta Tone/Seal                             | 001D7901        |              | YES                |
| 10                | Shaft Pin                                      |       | 2/1-17 | 1        | ø5 x 26mm                                               | 310192          | 95061337     | YES                |
| 10a               | Coupling Half (machined set)                   |       | 2/1    | 1        | NEMA, 56C, 1/3 - 2HP. ø15.9/ ø16mm                      | 96516777        |              | YES                |
|                   |                                                |       | 2-3    | 1        | NEMA, 182/184TC, 3-5HP. ø28.6/ø16mm (High)              | 96516009        |              | YES                |
|                   |                                                |       | 4-6    | 1        | NEMA, 213TC, 7.5-10HP. ø34.9/ø16mm (High)               | 96516770        |              | YES                |
|                   |                                                |       | 7-10   | 1        | NEMA, 254TC, 15-20HP. ø41.2/ø16mm (High)                | 96516771        |              | YES                |
|                   |                                                |       | 12     | 1        | NEMA, 284/286TSC, 25HP. ø41.2/ø16mm                     | 96516771        |              | YES                |
| 12a               | Discharge Adapter                              |       | 2/1-17 | 1        | GA, 4 hole flange, OD= 55mm, ID= 26mm (1.0"), L= 60mm   | 95922007        |              | No                 |
|                   |                                                |       | 2/1-17 | 1        | G05, 4 hole flange, OD= 55mm, ID= 26mm (1.0"), L= 111mm | 95922008        |              | No                 |
|                   |                                                |       | 2/1-17 | 1        | G22, 4 hole flange, OD= 90mm, ID= 50mm (2"), L= 85mm    | 95922016        |              | No                 |
|                   | Discharge Adp. option larger suc./dis. & press |       | 2/1-17 | 1        | GB, 6 hole flange, OD= 76mm, ID= 49mm (1.5"), L= 65mm   | 95922009        |              | No                 |
|                   |                                                |       | 2/1-17 | 1        | GC, 6 hole flange, OD= 90mm, ID= 49mm (2"), L= 65mm     | 95922010        |              | No                 |
|                   |                                                |       | 2/1-17 | 1        | G50, 6 hole flange, OD= 76mm, ID= 41mm (1.5"), L= 116mm | 95922011        |              | No                 |
|                   |                                                |       | 2/1-17 | 1        | G10, 6 hole flange, OD= 90mm, ID= 50mm (2"), L= 110mm   | 95922012        |              | No                 |
|                   |                                                |       | 2/1-17 | 1        | G60, 6 hole flange, OD= 90mm, ID= 50mm (2"), L= 142mm   | 95922013        |              | No                 |
|                   |                                                |       | 2/1-17 | 1        | G20, 6 hole flange, OD= 76mm, ID= 40mm (1.5"), L= 166mm | 95922014        |              | No                 |
|                   |                                                |       | 2/1-17 | 1        | G30, 6 hole flange, OD= 90mm, ID= 50mm (2"), L= 192mm   | 95922015        |              | No                 |
|                   |                                                |       | 2/1-17 | 1        | G50, 6 hole flange, OD= 76mm, ID= 47mm (1.5"), L= 96mm  | 96834136        |              | No                 |
|                   |                                                |       | 2/1-17 | 1        | G10, 6 hole flange, OD= 90mm, ID= 56mm (2"), L= 90mm    | 96834137        |              | No                 |
|                   |                                                |       | 2/1-17 | 1        | G60, 6 hole, flange, OD= 90mm, ID= 55mm (2"), L= 122mm  | 96834138        |              | No                 |
|                   |                                                |       | 2/1-17 | 1        | G20, 6 hole flange, OD= 76mm, ID= 46mm (1.5"), L= 146mm | 96834139        |              | No                 |
|                   |                                                |       | 2/1-17 | 1        | G30, 6 hole flange, OD= 90mm, ID= 54mm (2"), L= 172mm   | 96834140        |              | No                 |
|                   |                                                |       | 2/1-17 | 1        | G33, 6 hole flg.OD=120mm, ID= 80mm (3"), L= 110mm       | 95922017        |              | No                 |
| 18(a)             | Priming/Vent Plug                              |       | 2/1-17 | *        | G 1/2A, NV24 with NV9 x M8 stem                         | 405150          | 95061351     | YES                |
| 19                | (Suction) Pressure tap plug                    |       | 2/1-17 | 1        | 1/4" NPT,SS SQHD                                        | 001D7216        |              | No                 |
| 19a               | (Discharge) Pressure tap plug                  |       | 2/1-17 | 1        | 1/4" NPT,SS SQHD                                        | 001D7216        |              | No                 |
| 23, 23c           | Plug                                           |       | 2/1-17 | *        | G 1/2A, NV24, solid                                     | 370025          | 95061733     | No                 |
| 25                | Drain plug                                     |       | 2/1-17 | 1        | 1/4" NPT,SS SQHD                                        | 001D7216        |              | No                 |
| 26                | Staybolt                                       |       | 2/1-2  | 4        | M16 x 150mm                                             | 96922785        |              | No                 |
|                   |                                                |       | 3      | 4        | M16 x 196mm                                             | 96922788        |              | No                 |
|                   |                                                |       | 4      | 4        | M16 x 241mm                                             | 96922792        |              | No                 |
|                   |                                                |       | 5      | 4        | M16 x 286mm                                             | 290247          |              | No                 |
|                   |                                                |       | 6      | 4        | M16 x 327mm                                             | 350179          |              | No                 |
|                   |                                                |       | 7      | 4        | M16 x 376mm                                             | 96922799        |              | No                 |
|                   |                                                |       | 8      | 4        | M16 x 415mm                                             | 370134          |              | No                 |
|                   |                                                |       | 9      | 4        | M16 x 467mm                                             | 96922804        |              | No                 |
|                   |                                                |       | 10     | 4        | M16 x 506mm                                             | 96922806        |              | No                 |
|                   |                                                |       | 12     | 4        | M16 x 596mm                                             | 96922810        |              | No                 |
|                   |                                                |       | 14     | 4        | M16 x 686mm, 4 pole & 50 Hz.                            | 96922814        |              | No                 |
|                   |                                                |       | 17     | 4        | M16 x 827mm, 4 pole & 50 Hz.                            | 370981          |              | No                 |
|                   | Staybolt (Back-to-Back & Tandem Seal option)   |       | 2/1-2  | 4        | M16 x 241mm                                             | 96922792        |              | No                 |
|                   |                                                |       | 3      | 4        | M16 x 286mm                                             | 290247          |              | No                 |
|                   |                                                |       | 4      | 4        | M16 x 333mm                                             | 370133          |              | No                 |
|                   |                                                |       | 5      | 4        | M16 x 376mm                                             | 96922799        |              | No                 |
|                   |                                                |       | 6      | 4        | M16 x 415mm                                             | 370134          |              | No                 |
|                   |                                                |       | 7      | 4        | M16 x 467mm                                             | 96922804        |              | No                 |
|                   |                                                |       | 8      | 4        | M16 x 506mm                                             | 96922806        |              | No                 |
|                   |                                                |       | 9      | 4        | M16 x 550mm                                             | 96922808        |              | No                 |
|                   |                                                |       | 10     | 4        | M16 x 596mm                                             | 96922810        |              | No                 |
|                   |                                                |       | 12     | 4        | M16 x 686mm                                             | 96922814        |              | No                 |
|                   |                                                |       | 14     | 4        | M16 x 776mm, 4 pole & 50 Hz.                            | 290254          |              | No                 |
|                   |                                                |       | 17     | 4        | M16 x 916mm, 4 pole & 50 Hz.                            | 290256          |              | No                 |

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|-------------------|-----------------------------------------------------------|-------|------------|----------|------------------------------------------------------------|-----------------|--------------|--------------------|
| <b>PARTS LIST</b> |                                                           |       |            |          |                                                            |                 |              |                    |
| 26a               | Strap                                                     |       | 2/1-2      | 2        | L* = 93.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut.              | 96487759        |              | No                 |
|                   |                                                           |       | 3          | 2        | L* = 138.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487761        |              | No                 |
|                   |                                                           |       | 4          | 2        | L* = 183.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487763        |              | No                 |
|                   |                                                           |       | 5          | 2        | L* = 228.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487765        |              | No                 |
|                   |                                                           |       | 6          | 2        | L* = 273.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487767        |              | No                 |
|                   |                                                           |       | 7          | 2        | L* = 318.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487769        |              | No                 |
|                   |                                                           |       | 8          | 2        | L* = 363.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487770        |              | No                 |
|                   |                                                           |       | 9          | 2        | L* = 408.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487772        |              | No                 |
|                   |                                                           |       | 10         | 2        | L* = 453.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487774        |              | No                 |
|                   |                                                           |       | 12         | 2        | L* = 543.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487776        |              | No                 |
|                   |                                                           |       | 14: 4 pole | 2        | L* = 633.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487780        |              | No                 |
|                   |                                                           |       | 17: 4 pole | 2        | L* = 768.5mm x 20.3mm x 1.3mm, 316 SS, M8 nut              | 96487782        |              | No                 |
| 26b               | Bolt for Pos. 26a                                         |       | 2/1-17     | 2        | M8 x 25mm, 316 SS w/Delta Tone/Seal                        | 96416603        |              | No                 |
| 26c               | Washer for Pos. 26b                                       |       | 2/1-17     | 2        | A4, Ø16.0/Ø8.4x1.6mm                                       | 001D3284        |              | No                 |
| 28                | Motor Bolt                                                |       | 2/1        | 4        | NEMA, 56C, 1/3 - 2HP, UNC 3/8" x 25mm                      | 001D1839        |              | No                 |
|                   |                                                           |       | 2-3        | 4        | NEMA, 182/184TC, 3 - 5HP, UNC1/2" x 25mm                   | 001D1840        |              | No                 |
|                   |                                                           |       | 4-6        | 4        | NEMA, 213TC, 7.5 -10HP, JR 1/2" x 1.25" UNC                | 001D0185        |              | No                 |
|                   |                                                           |       | 7-10       | 4        | NEMA, 254TC, 15-20HP, 1/2" x 2.5" UNC                      | 96491112        |              | No                 |
|                   |                                                           |       | 12         | 4        | NEMA, 284TC, 25HP, UNC1/2" x 25mm                          | 001D1840        |              | No                 |
| 28g               | Bolt for Foot 56a & Volute pos. 6 (GA, GB, GC)            |       | 2/1-17     | 2        | M12 x 20mm, low hex head, 8.8 Alloy Steel, Delta Tone/Seal | 95922047        |              | No                 |
|                   | Bolt - Foot 56a & Volute pos. 6 (G05, G10, G22, G50, G60) |       | 2/1-17     | 2        | M12 x 20mm, 8.8 Alloy Steel, Delta Tone/Seal               | 95922048        |              | No                 |
| 35                | Bolt for Discharge Adapter Pos. 12a (GB, GC)              |       | 2/1-17     | 6        | M12 x 22mm Socket Head Cap Screw, Delta Tone/Seal          | 95922049        |              | No                 |
|                   | Bolt for Discharge Adapter Pos. 12a (GA, G05)             |       | 2/1-17     | 4        | M12 x 25mm Socket Head Cap Screw, Delta Tone/Seal          | 95922050        |              | No                 |
| 36                | Staybolt Nut                                              |       | 2/1-17     | 4        | 24mm x M16, Delta Tone/Seal                                | 001D7908        |              | No                 |
| 37(b)             | Sleeve O-ring                                             |       | 2/1-17     | ◆◆       | EPDM, Ø170.7 x 3.3mm                                       | 96483101        |              | YES                |
|                   |                                                           |       | 2/1-17     | ◆◆       | FKM, Ø170.7 x 3.3mm                                        | 96483102        |              | YES                |
|                   | Sleeve O-ring (option)                                    |       | 2/1-17     | ◆◆       | FKM, Ø171.25 x 3.3mm                                       | 96483109        |              | YES                |
|                   | Sleeve O-ring (option)                                    |       | 2/1-17     | ◆◆       | FFKM, Ø170.7 x 3.3mm                                       | 96483140        |              | YES                |
| 39b               | O-ring for Discharge Adapter flange Pos. 12a              |       | 2/1-17     | 1        | EPDM, Parker 2-238 Ø88.5 x 3.5mm                           | 95922035        |              | YES                |
|                   |                                                           |       | 2/1-17     | 1        | FKM, Parker 2-238 Ø88.5 x 3.5mm                            | 95922036        |              | YES                |
|                   |                                                           |       | 2/1-17     | 1        | FKM, Parker 2-238 Ø88.5 x 3.5mm                            | 95952037        |              | YES                |
|                   |                                                           |       | 2/1-17     | 1        | FFKM, Parker 2-238 Ø88.5 x 3.5mm                           | 95131207        |              | YES                |
| 44a               | Inlet upper with Pos. 45 & 65                             |       | 2/1-17     | 1        |                                                            | 96489038        |              | No                 |
| 44c               | Inlet upper with Pos. 45 & 65 (Low NPSH option)           |       | 2-17       | 1        |                                                            | 96491227        |              | No                 |
| 44b               | Inlet lower, machined                                     |       | 2/1-17     | 1        |                                                            | 96488000        |              | No                 |
| 45                | Neck Ring                                                 |       | 2/1-17     | # imp.-  | Ø75.8 x Ø59.95 x 1.5mm, PTFE-Acoflon 100                   | 96487400        |              | YES                |
|                   | Neck Ring (low NPSH option)                               |       | 2/1-17     | 1        | Ø88.0 x Ø66.2 x 2.2mm, PTFE-Acoflon 215                    | 290091          |              | No                 |
| 47a               | Bearing Ring/Spacer                                       |       | 2/1-17     | ^^^^     | SiC 150, Ø23.4 x Ø17.6 x Ø15.0 x 14mm                      | 96763100        |              | YES                |
|                   | Brg. Ring/Spacer (option for Graflon / Brz. 4a)           |       | 2/1-17     | ^^^^     | TC, Ø21.9 x Ø17.6 x Ø15.0 x 14mm                           | 330085          | 95061371     | YES                |
| 49                | Impeller                                                  |       | 2/1-17     | # stgs-  | Ø104.8 x Ø59.85 x 25.4mm (back-plate 1.5mm)                | 96476399        |              | No                 |
| 49c               | Wear Ring N for Impeller 49                               |       | 2/1-17     | # stgs-  | Ø59.85 x 7.4mm                                             | 330054          |              | YES                |
| 49c               | Wear Ring N for Low NPSH Impeller 49i                     |       | 2/1-17     | 1        | Ø66.0 x 8.5mm                                              | 290049          |              | No                 |
| 49i               | Impeller N (Low NPSH option)                              |       | 2-17       | 1        | Ø118.8 x Ø66.0 x 32.2mm                                    | 96521444        |              | No                 |
| 51                | Shaft, Complete                                           |       | 2/1-2      | 1        | Ø16 x 209.0mm, 431 SS                                      | 96490794        |              | No                 |
|                   |                                                           |       | 3          | 1        | Ø16 x 249.0mm, 431 SS                                      | 96490798        |              | No                 |
|                   |                                                           |       | 4          | 1        | Ø16 x 299.0mm, 431 SS                                      | 96490872        |              | No                 |
|                   |                                                           |       | 5          | 1        | Ø16 x 339.0mm, 431 SS                                      | 96490876        |              | No                 |
|                   |                                                           |       | 6          | 1        | Ø16 x 389.0mm, 431 SS                                      | 96490880        |              | No                 |
|                   |                                                           |       | 7          | 1        | Ø16 x 429.0mm, 431 SS                                      | 96490884        |              | No                 |
|                   |                                                           |       | 8          | 1        | Ø16 x 479.0mm, 431 SS                                      | 96490886        |              | No                 |
|                   |                                                           |       | 9          | 1        | Ø16 x 519.0mm, 431 SS                                      | 96490888        |              | No                 |
|                   |                                                           |       | 10         | 1        | Ø16 x 564.0mm, 431 SS                                      | 96490892        |              | No                 |
|                   |                                                           |       | 12         | 1        | Ø16 x 659.0mm, 431 SS                                      | 96490896        |              | No                 |
|                   |                                                           |       | 14         | 1        | Ø16 x 744.0mm, 431 SS, 4 pole & 50 Hz.                     | 96490910        |              | No                 |
|                   |                                                           |       | 17         | 1        | Ø16 x 879.0mm, 431 SS, 4 pole & 50 Hz.                     | 96490915        |              | No                 |
|                   | Shaft, Cpl. (Back-to-Back & Tandem Seal option)           |       | 2/1-2      | 1        | Ø16 x 299.0mm, 329 SS                                      | 96507538        |              | No                 |
|                   |                                                           |       | 3          | 1        | Ø16 x 339.0mm, 329 SS                                      | 96507570        |              | No                 |
|                   |                                                           |       | 4          | 1        | Ø16 x 389.0mm, 329 SS                                      | 96507572        |              | No                 |
|                   |                                                           |       | 5          | 1        | Ø16 x 429.0mm, 329 SS                                      | 96507574        |              | No                 |
|                   |                                                           |       | 6          | 1        | Ø16 x 479.0mm, 329 SS                                      | 96507576        |              | No                 |
|                   |                                                           |       | 7          | 1        | Ø16 x 519.0mm, 329 SS                                      | 96507578        |              | No                 |
|                   |                                                           |       | 8          | 1        | Ø16 x 569.0mm, 329 SS                                      | 96507579        |              | No                 |
|                   |                                                           |       | 9          | 1        | Ø16 x 609.0mm, 329 SS                                      | 96507580        |              | No                 |
|                   |                                                           |       | 10         | 1        | Ø16 x 654.0mm, 329 SS                                      | 96507582        |              | No                 |
|                   |                                                           |       | 12         | 1        | Ø16 x 749.0mm, 329 SS                                      | 96507584        |              | No                 |
|                   |                                                           |       | 12         | 1        | Ø16 x 777.0mm, 329 SS (Low NPSH option)                    | 96551867        |              | No                 |
|                   |                                                           |       | 14         | 1        | Ø16 x 834.0mm, 431 SS, 4 pole & 50 Hz.                     | 96507586        |              | No                 |
|                   |                                                           |       | 17         | 1        | Ø16 x 969.0mm, 431 SS, 4 pole & 50 Hz.                     | 96507588        |              | No                 |
|                   |                                                           |       | 17: 4 pole | 1        | Ø16 x 1014.0mm, 431 SS, Low NPSH & 50 Hz.                  | 96529710        |              | No                 |
| 55                | Sleeve                                                    |       | 2/1-2      | 1        | Ø171.1/ Ø170.7 x 104.0mm x 1.5mm, 304 SS                   | 96489762        |              | No                 |
|                   |                                                           |       | 3          | 1        | Ø171.1/ Ø170.7 x 149.0mm x 1.5mm, 304 SS                   | 96489764        |              | No                 |
|                   |                                                           |       | 4          | 1        | Ø171.1/ Ø170.7 x 194.0mm x 1.5mm, 304 SS                   | 96489766        |              | No                 |
|                   |                                                           |       | 5          | 1        | Ø171.1/ Ø170.7 x 239.0mm x 1.5mm, 304 SS                   | 96489767        |              | No                 |

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| <b>PARTS LIST</b> |                                                       |          |            |              |                                                          |                 |              |                    |
| 55                | Sleeve - continued                                    |          | 6          | 1            | Ø171.1/ Ø170.7 x 284.0mm x 1.5mm, 304 SS                 | 96489769        |              | No                 |
|                   |                                                       |          | 7          | 1            | Ø171.1/ Ø170.7 x 329.0mm x 1.5mm, 304 SS                 | 96489771        |              | No                 |
|                   |                                                       |          | 8          | 1            | Ø171.1/ Ø170.7 x 374.0mm x 1.5mm, 304 SS                 | 96489772        |              | No                 |
|                   |                                                       |          | 9          | 1            | Ø171.1/ Ø170.7 x 419.0mm x 2.0mm, 316 SS                 | 96489857        |              | No                 |
|                   |                                                       |          | 10         | 1            | Ø171.1/ Ø170.7 x 464.0mm x 2.0mm, 316 SS                 | 96489831        |              | No                 |
|                   |                                                       |          | 12         | 1            | Ø171.1/ Ø170.7 x 554.0mm x 2.0mm, 316 SS                 | 96489833        |              | No                 |
|                   |                                                       |          | 14: 4 pole | 1            | Ø171.1/ Ø170.7 x 644.0mm x 2.0mm, 316 SS                 | 96489835        |              | No                 |
|                   |                                                       |          | 17: 4 pole | 1            | Ø171.1/ Ø170.7 x 779.0mm x 2.0mm, 316 SS                 | 96489836        |              | No                 |
| 55b               | Sleeve flange                                         |          | 2/1-17     | 1            | CR-H, CRN-H10, 15, 20, 316 SS.                           | 95131164        |              | No                 |
| 56a               | Foot (Cast Iron) for Pos. 6 (GA, GB, GC)              |          | 2/1-17     | 1            | H= 21mm, W= 198mm, Ø16mm hole CL 142mm, Cl.              | 95922023        |              | No                 |
|                   | Foot (Cast Iron) for Pos. 6 (G05, G10, G22, G50, G60) |          | 2/1-17     | 1            | H= 98mm, W= 300mm, Ø16mm hole CL 248mm, Cl.              | 95922024        |              | No                 |
|                   | Foot (Cast Iron) for Pos. 6 (C1, G20, G30)            | 254TC    | 2/1-17     | 1            | H= 142mm, W= 300mm, Ø16mm hole CL 248mm, Cl.             | 96834143        |              | No                 |
| 56b(d)            | Washer for bolt Pos. 56c                              |          | 2/1-17     | 16           | M12, 304 SS                                              | 00ID3103        |              | No                 |
| 56c               | Bolt for sleeve flange Pos. 55b                       |          | 2/1-17     | 8            | M12x1.75 x60mm, 12.9 Alloy Steel, Delta Tone/Seal        | 97672735        |              | No                 |
| 56e               | Nut for bolt Pos. 56c                                 |          | 2/1-17     | 8            | M12, NV19, 8.8 Steel, Delta Tone/Seal                    | 00ID7917        |              | No                 |
| 56f               | Bolt for Pos. 90 (BP139 w/GA, BP245 G05/22)           | 56/182T  | 2/1-2      | 2            | Hex Hd.1/2 -13 UNC x 1" SAE 5, Zinc plated               |                 |              | YES                |
|                   | Bolt for Pos. 90 (BP258 G05/22)                       | 254/84TC | 6-12       | 2            | Hex Hd.1/2 -13 UNC x 1" SAE 5, Zinc plated               |                 |              | YES                |
|                   | Bolt for Pos. 90 (BP148 w/GA, GB, BP252 G05/22)       | 213TC    | 3-5        | 2            | Hex Head 1/2 -13 UNC x 1.25" SAE 5, Zinc plated          |                 |              | YES                |
|                   | Bolt for Pos. 90 (XLBP4 w/GA, GB)                     | 284TC    | 12         | 2            | Hex Head 1/2 -13 UNC x 1.25" SAE 5, Zinc plated          |                 |              | YES                |
|                   | Bolt for Pos. 90 (BP148 with GA/GB, Pos. 56k & m)     | 254TC    | 6-10       | 2            | Hex Head 1/2 -13 UNC x 2.25" SAE 5, Zinc plated          |                 |              | YES                |
| 56g               | Washer for bolt Pos. 56f                              |          | 2/1-17     | 2            | 1/2" SAE, Zinc plated                                    |                 |              | YES                |
| 56k               | Spacer for base Pos. 90                               | GA/GB    | 6-10       | 1            | 148BP 254T, L=200mm x H=25.4mm x W=78.2mm                |                 |              | YES                |
| 56m               | Alignment pin                                         | GA/GB    | 6-10       | 2            | Slotted Spring Pin, Ø3/16" x 1" ASME, Zinc plated        |                 |              | YES                |
| 60                | Stack Compression Spring                              |          | 2/1-17     | 4            | Ø11.0 x Ø7.0 x 15.5mm, EPDM                              | 96503070        |              | YES                |
|                   |                                                       |          | 2/1-17     | 4            | Ø11.0 x Ø7.0 x 15.5mm, FKM                               | 96503072        |              | YES                |
| 60a               | Stack Compression Spring (option)                     |          | 2/1-17     | 4            | Ø11.0 x Ø7.0 x 15.5mm, PTFE                              | 96503071        |              | YES                |
| 61                | Stop spacer                                           |          | 2/1-17     | 1            | Ø22.0 x Ø17.8 x Ø15.11 x 11.8 x 6.8mm                    | 96783511        |              | YES                |
| 64                | Spacing Pipe                                          |          | 3-17       | ^^^          | Ø21.5 x Ø17.5 x 43.6mm                                   | 331407          |              | No                 |
| 64a               | Spacing Pipe                                          |          | 2-17       | ^^^^         | Ø21.5 x Ø17.5 x 17.0mm                                   | 331416          |              | YES                |
| 64b               | Spacing Pipe                                          |          | 2-17       | ^^^^         | Ø21.5 x Ø17.5 x 5.0mm                                    | 331401          |              | YES                |
| 64c               | Clamp, Splined                                        |          | 2/1-17     | 1            | Ø21.5 x Ø17.6 x Ø15.0 x 12.7mm                           | 96496311        |              | YES                |
| 64d               | Spacing Pipe                                          |          | 2/1-17     | ^^^^^^       | Ø21.5 x Ø17.5 x 12.6mm                                   | 96491535        |              | YES                |
| 64e               | Spacing Pipe (Low NPSH option only)                   |          | 2-17       | ^ +          | Ø21.5 x Ø17.5 x 8.0mm                                    | 331411          |              | No                 |
| 64f               | Spacing Pipe (Low NPSH option only)                   |          | 2/1        | ^ -          | Ø21.5 x Ø17.5 x 18.0mm                                   | 96491536        |              | No                 |
| 64g               | Spacing Pipe (de-staging 2 impellers option only)     |          | 3-17       | 1 per de-stg | Ø21.5 x Ø17.5 x 45.0mm (use with 3b only)                | 331408          |              | No                 |
| 65                | Neck Ring Retainer                                    |          | 2/1-17     | # stgs-1     | Ø78.8 x Ø61.5 x 6.7mm                                    | 330059          | 96547341     | YES                |
|                   | Neck Ring Retainer (Low NPSH option)                  |          | 2-17       | 1            | Ø84.5 x Ø67.8 x 4.6mm                                    | 290059          |              | YES                |
| 66                | Lock Washer Set for Shaft                             |          | 2/1-17     | 1            | Ø13.5 x Ø8.2 x 2.6mm                                     | 96417297        |              | YES                |
| 66a               | Washer for Staybolt                                   |          | 2/1-17     | 4            | DIN 125A, Ø30 x Ø17 x 2.5mm, Delta Tone/Seal             | 96430378        |              | No                 |
| 67                | Lock Nut for Shaft                                    |          | 2/1-17     | 1            | 13mm x M8                                                | 96496488        |              | YES                |
| 69                | Spacing Pipe                                          |          | 2-17       | ⊖            | Ø27.5 x Ø17.5 x 27.5mm                                   | 96491537        |              | No                 |
| 69a               | Spacing Pipe (de-staging option only)                 |          | 2/1        | 1            | Ø21.5 x Ø17.5 x 29.05mm (use with 3a only)               | 331404          | 95061499     | No                 |
| 72a               | O-ring for Sleeve Flange Pos. 55b                     |          | 2/1-17     | 1            | EPDM, Ø215.5mm                                           | 95922038        |              | YES                |
|                   |                                                       |          | 2/1-17     | 1            | FKM, Ø215.5mm                                            | 95922039        |              | YES                |
|                   |                                                       |          | 2/1-17     | 1            | FFKM, Ø215.5mm                                           | 95131208        |              | YES                |
|                   |                                                       |          | 2/1-17     | 1            | FKM, Ø215.5mm                                            | 95922040        |              | YES                |
| 76                | Nameplate                                             |          | 2/1-17     | 1            | 304SS, 60 x 45mm                                         | 96563333        |              | No                 |
| 76a               | Rivet for Nameplate                                   |          | 2/1-17     | 2            | 304SS, Ø3 x 5mm                                          | 96022882        |              | No                 |
| 77a               | Pump Head Cover for Tandem Seal & Cool Top®           |          | 2/1-17     | 1            | Cast Stainless                                           | 96505487        |              | No                 |
|                   | Pump Head Cover for Back-to-Back                      |          | 2/1-17     | 1            | Cast Stainless                                           | 96505488        |              | No                 |
| 79a               | Disc / Plate complete w/79b & c for Cool Top          |          | 2/1-17     | 1            | Cast Stainless                                           | 96511281        |              | No                 |
| 79b               | Bushing for Disc / Plate 79a                          |          | 2/1-17     | 1            | Graflon                                                  | 96505571        |              | No                 |
| 79c               | Retaining Ring for 79b                                |          | 2/1-17     | 1            | Stainless                                                | 96510985        |              | No                 |
| 90                | Main Support Baseplate                                | GA/GB    | 2/1-2      | 1            | BP. Cpl. 139, L=991mm x W=305mm x H=106.5mm              | 96956336        |              | YES                |
|                   |                                                       | GA/GB    | 3-6        | 1            | BP. Cpl. 148, L=1219mm x W=381mm x H=107.9mm             | 96956346        |              | YES                |
|                   |                                                       | G05/22   | 2/1-2      | 1            | BP. Cpl. 245, L=1143mm x W=305mm x H=106.5mm             | 96956341        |              | YES                |
|                   |                                                       | G05/22   | 3-5        | 1            | BP. Cpl. 252, L=1320.8mm x W=381mm x H=107.9mm           | 96956356        |              | YES                |
|                   |                                                       | G05/22   | 6-10       | 1            | BP. Cpl. 258, L=1473.2mm x W=457.2mm x H=119.1mm         | 96956360        |              | YES                |
|                   | Main Support Baseplate - Longer versions              | GA/GB    |            | 1            | XLBP1(139/245), L=1500mm x W=381mm6.5=106.5mm            | 96956376        |              | YES                |
|                   |                                                       | GA/GB    | 7-10       | 1            | XLBP2(148/252), L=1777.8mm x W=381mm x H=107.9mm         | 96956377        |              | YES                |
|                   |                                                       | G22      | 12         | 1            | XLBP3(258/264), L=2406.4mm x W=457.2mm x H=119.1mm       | 96956379        |              | YES                |
|                   |                                                       | GA/GB    | 12         | 1            | XLBP4(153), L=2406.4mm x W=457.2mm x H=194mm             | 96957102        |              | YES                |
| 90a               | Bolt for motor to slider Pos. 90b                     | 56C      | 2/1        | 4            | Hex Head 5/16 -18 UNC x .75" SAE 5, Zinc plated          |                 |              | YES                |
|                   |                                                       | 182TC    | 2          | 4            | Hex Head 3/8 -16 UNC x .5" SAE 5, Zinc plated            |                 |              | YES                |
|                   |                                                       | 213TC    | 3-5        | 4            | Hex Head 3/8 -16 UNC x 5/8" SAE 5, Zinc plated for GA/GB |                 |              | YES                |
|                   |                                                       | 213TC    | 3-5        | 4            | Hex Head 3/8 -16 UNC x 1" SAE 5, Zinc plated for G05/22  |                 |              | YES                |
|                   |                                                       | 254-284  | 6-12       | 4            | Hex Head 1/2 -13 UNC x 1.25" SAE 5, Z.P. for G05/22      |                 |              | YES                |
|                   |                                                       | 254-284  | 6-12       | 4            | Hex Head 1/2 -13 UNC x 1.5" SAE 5, Zinc plated for GA/GB |                 |              | YES                |

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

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

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# Parts List & Kits CR15-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> |                                                   |         |        |          |                                                      |                 |              |                    |
| 90b               | Motor support / slider                            | 56C     | 2/1    | 2        | GA,GB,GC, BP139, L=204mm x H=45.5mm x W=25.4mm       | 96956339        |              | YES                |
|                   |                                                   | 182TC   | 2      | 2        | GA,GB,GC, BP139, L=230mm x H=23mm x W=25.4mm         | 96956338        |              | YES                |
|                   |                                                   | 213TC   | 3-5    | 2        | GA,GB,GC, BP148, L=252mm x H=20mm x W=25.4mm         | 96956347        |              | YES                |
|                   |                                                   | 254TC   | 6-10   | 2        | GA,GB,GC, BP148, L=299mm x H=20.3mm x W=25.4mm       | 96956348        |              | YES                |
|                   |                                                   | 284TC   | 12     | 2        | GA,GB,GC, BP153, L=366mm x H=46mm x W=25.4mm         | 96956351        |              | YES                |
|                   |                                                   | 56C     | 2/1    | 2        | G05, G22, BP245, L=204mm x H=125.5mm x W=25.4mm      | 96956343        |              | YES                |
|                   |                                                   | 182TC   | 2      | 2        | G05, G22, BP245, L=230mm x H=100mm x W=25.4mm        | 96956342        |              | YES                |
|                   |                                                   | 213TC   | 3-5    | 2        | G05, G22, BP252, L=252mm x H=96.5mm x W=25.4mm       | 96956357        |              | YES                |
|                   |                                                   | 254TC   | 6-10   | 2        | G05, G22, BP252, L=354mm x H=67mm x W=25.4mm         | 96956361        |              | YES                |
|                   |                                                   | 284TC   | 12     | 2        | G05, G22, BP258, L=354mm x H=67mm x W=25.4mm         | 96956361        |              | YES                |
| 90c               | Support Bracket for Pump Cartridge                |         | 2/1-17 | 1        | 304 SS, H=59mm CL of hole, GA/GB/GC                  | 95131178        |              | No                 |
|                   |                                                   |         | 2/1-17 | 1        | 304 SS, H=136mm CL of hole, G05/G10/G22/G50/G60      | 95131180        |              | No                 |
|                   |                                                   |         | 2/1-17 | 1        | 304 SS, H=180mm CL of hole, G20/G30                  | 96834148        |              | No                 |
| 90d               | Bolt for motor slider Pos. 90b to base Pos. 90    | 56C     | 2/1    | 4        | Hex Head 1/4 -20 UNC x 1" SAE 5, Zinc plated         |                 |              | YES                |
|                   |                                                   | 182/213 | 2-5    | 4        | Hex Head 1/4 -20 UNC x 1.75" SAE 5, Z.P. for GA/GB   |                 |              | YES                |
|                   |                                                   | 213-284 | 3-12   | 4        | Hex Head 1/4 -20 UNC x 1.75" SAE 5, Z.P. for G05/G22 |                 |              | YES                |
|                   |                                                   | 284TC   | 12     | 4        | Hex Head 1/4 -20 UNC x 2.25" SAE 5, Z.P. for GA/GB   |                 |              | YES                |
|                   |                                                   | 254TC   | 6-10   | 4        | Hex Head 1/4 -20 UNC x 2.5" SAE 5, Z.P. for GA/GB    |                 |              | YES                |
|                   |                                                   | 182TC   | 2      | 4        | Hex Head 1/4 -20 UNC x 2.5" SAE 5, Z.P. for G05/G22  |                 |              | YES                |
| 90f               | Washer for motor bolt pos. 90a to slider pos. 90b | 56C     | 2/1    | 4        | 5/16" SAE, Zinc plated                               |                 |              | YES                |
|                   |                                                   | 182/213 | 2-5    | 4        | 3/8" SAE, Zinc plated                                |                 |              | YES                |
|                   |                                                   | 254-284 | 6-12   | 4        | 1/2" SAE, Zinc plated                                |                 |              | YES                |
| 100               | Priming/Vent Plug O-ring                          |         | 2/1-17 | ■        | EPDM, Ø16.3 x 2.4mm                                  | 00ID1288        |              | YES                |
| 100a              | Priming/Vent Plug O-ring (option)                 |         | 2/1-17 | ■        | FKM, Ø16.3 x 2.4mm                                   | 00ID2231        |              | YES                |
|                   |                                                   |         | 2/1-17 | ■        | FFKM, Ø16.3 x 2.4mm                                  | 96428162        | 96587720     | YES                |
| 105(b)            | Priming/Vent Plug O-ring (option)                 |         | 2/1-17 | ■        | FXM, Ø16.3 x 2.4mm                                   | 96442869        | 96587721     | YES                |
|                   | Shaft Seal HQBE                                   |         | 2/1-17 | ***      | SiC, Carbon with resin-impregnated, EPDM             | 96484076        |              | YES                |
|                   | Shaft Seal HQBV                                   |         | 2/1-17 | ***      | SiC, Carbon with resin-impregnated, FKM              | 96484077        |              | YES                |
|                   | Shaft Seal HQQE                                   |         | 2/1-17 | ***      | SiC, SiC, EPDM                                       | 96484071        |              | YES                |
|                   | Shaft Seal HQQV                                   |         | 2/1-17 | ***      | SiC, SiC, FKM                                        | 96484072        |              | YES                |
|                   | Shaft Seal HQQF (option)                          |         | 2/1-17 | ***      | SiC, SiC, FXM                                        | 96484075        |              | YES                |
|                   | Shaft Seal HQQK (option)                          |         | 2/1-17 | ***      | SiC, SiC, FFKM                                       | 96484074        |              | YES                |
|                   | Shaft Seal HUBE                                   |         | 2/1-17 | ***      | TC, Carbon with resin-impregnated, EPDM              | 96483952        |              | YES                |
|                   | Shaft Seal HUBV                                   |         | 2/1-17 | ***      | TC, Carbon with resin-impregnated, FKM               | 96483964        |              | YES                |
|                   | Shaft Seal HUBF (option)                          |         | 2/1-17 | ***      | TC, Carbon with resin-impregnated, FXM               | 96483966        |              | YES                |
|                   | Shaft Seal HUBK (option)                          |         | 2/1-17 | ***      | TC, Carbon with resin-impregnated, FFKM              | 96483965        |              | YES                |
|                   | Shaft Seal HUUE                                   |         | 2/1-17 | ***      | TC, TC, EPDM                                         | 96483967        |              | YES                |
|                   | Shaft Seal HUUV                                   |         | 2/1-17 | ***      | TC, TC, FKM                                          | 96483968        |              | YES                |
|                   | Shaft Seal HUUF (option)                          |         | 2/1-17 | ***      | TC, TC, FXM                                          | 96484070        |              | YES                |
|                   | Shaft Seal HUUK (option)                          |         | 2/1-17 | ***      | TC, TC, FFKM                                         | 96483969        |              | YES                |
| 117               | Pipe for Air Vent 118                             |         | 2/1-17 | 1        | G1/2, 316SS                                          | 96525189        |              | YES                |
| 117a              | Counter Nut for Pipe 117                          |         | 2/1-17 | 2        | NV24, internal G1/2, 316SS                           | 96506709        |              | YES                |
| 118               | Air Vent                                          |         | 2/1-17 | 1        | Air vent type 1511-AV - 5/6430                       | 96427483        |              | YES                |
| 201               | Flange, Suction                                   |         | 2/1-7  | 1        | 1.5" 150#, 4 x 1/2"-13 UNC threaded flange, e-coat   | 96922828        |              | No                 |
|                   |                                                   |         | 2/1-7  | 1        | 2" 150#, 4 x 5/8"-11 UNC threaded flange, e-coat     | 96922829        |              | No                 |
|                   |                                                   |         | 2/1-7  | 1        | 3" 150#, 8 x non thread flange, electrocoated        | 350085          |              | No                 |
|                   |                                                   |         | 8-17   | 1        | 1.5" 300#, 4 x 3/4"-10 UNC threaded flange, e-coat   | 96956145        |              | No                 |
|                   |                                                   |         | 8-17   | 1        | 2" 300#, 8 x 5/8"-11 UNC threaded flange, e-coat     | 96956146        |              | No                 |
|                   |                                                   |         | 8-17   | 1        | 3" 300#, 8 x 3/4"-10 UNC threaded flange, e-coat     | 96956147        |              | No                 |
|                   |                                                   |         | 2/1-7  | 1        | 1" 150#, 4 x 1/2"-13 UNC threaded flange, e-coat     | 96922827        |              | No                 |
|                   |                                                   |         | 2/1-7  | 1        | 1.5" 150#, 4 x 1/2"-13 UNC threaded flange, e-coat   | 96922828        |              | No                 |
|                   |                                                   |         | 2/1-7  | 1        | 2" 150#, 4 x 5/8"-11 UNC threaded flange, e-coat     | 96922829        |              | No                 |
|                   |                                                   |         | 8-17   | 1        | 1" 300#, 4 x 5/8"-11 UNC threaded flange, e-coat     | 96956144        |              | No                 |
| 201a              | Flange, Discharge                                 |         | 8-17   | 1        | 1.5" 300#, 4 x 3/4"-10 UNC threaded flange, e-coat   | 96956145        |              | No                 |
|                   |                                                   |         | 8-17   | 1        | 2" 300#, 8 x 5/8"-11 UNC threaded flange, e-coat     | 96956146        |              | No                 |
|                   |                                                   |         | 8-17   | 1        | 3" 300#, 8 x 3/4"-10 UNC threaded flange, e-coat     | 96956147        |              | No                 |
|                   |                                                   |         | 2/1-7  | 1        | 1" 150#, 4 x 1/2"-13 UNC threaded flange, e-coat     | 96922827        |              | No                 |
|                   |                                                   |         | 2/1-7  | 1        | 1.5" 150#, 4 x 1/2"-13 UNC threaded flange, e-coat   | 96922828        |              | No                 |
| 203               | Retaining ring for 201, 1.5" flange               |         | 2/1-17 | 1        | Ø72.6mm x 5mm                                        | 96475395        | 96547671     | No                 |
|                   |                                                   |         | 2/1-17 | 1        | Ø86.6mm x 5mm                                        | 96475396        |              | No                 |
|                   |                                                   |         | 2/1-17 | 1        | Ø121mm x 6mm                                         | 350009          |              | No                 |
| 203a              | Retaining ring for 201a, 1.0" flange              |         | 2/1-17 | 1        | Ø53.6mm x 3.2mm                                      | 96439718        |              | No                 |
|                   |                                                   |         | 2/1-17 | 1        | Ø72.6mm x 5mm                                        | 96475395        | 96547671     | No                 |
|                   |                                                   |         | 2/1-17 | 1        | Ø86.6mm x 5mm                                        | 96475396        |              | No                 |
|                   |                                                   |         | 2/1-17 | 1        | Ø121mm x 6mm                                         | 350009          |              | No                 |

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

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

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## NOTES:

The first number is total number of impellers.  
An exceptions to this format is the CR15-1.

**Example:** A CR15-1 is actually a CR15-2/1. It has 2 chambers and 1 impeller (de-staged by 1), and uses a 2 stage shaft.

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

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

^^^ 2/1 and 2 stage = use 0  
3 to 6 stage = # of stages less 2  
7 to 10 stage = # of stages less 3  
12 to 17 stage = # of stages less 4  
De-staging by two impellers use 1 less than stated above.

^^^^ 2/1 to 6 stage = use 1  
7 to 10 stage = use 2  
12 to 17 stage = use 3

^^^^^ 2/1-2, 4, 6, 8, and 12 stage = use 1  
Exception to the above: Low NPSH models

2, 4, 6, 8, 9 to 17 stage = use 1  
3, 5 and 7 stage = use 2

^^^^^^ 2/1 to 6 stage = use 1  
7 to 10 stage = use 2  
12 to 17 stage = use 3  
Exception to the above: Low NPSH models

2 to 6 stage = use 0  
7 to 10 stage = use 1  
12 to 17 stage = use 2

^ + NPSH Models only  
3, 6, 8, 9, & 17 stage = use 1  
2, 4, 6, 10, 12 & 14 stage = use 2

^ - NPSH Models only  
3, 6, 8, 9, & 17 stage = use 1

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

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

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

⊖ Standard use 1. CR(I,N)15-2/1 replace with Pos. 69a

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

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

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

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

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

## Key to Symbols

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

# Spare Part Kits CR15-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)15 SiC Bearing |                                                        |              |                           |    |          |
|------------------------|--------------------------------------------------------|--------------|---------------------------|----|----------|
| WEAR PARTS KIT 1-6     |                                                        |              | Kit No.                   |    | 96511824 |
| WEAR PARTS KIT 7-10    |                                                        |              | Kit No.                   |    | 96511827 |
| WEAR PARTS KIT 12-17   |                                                        |              | Kit No.                   |    | 96511830 |
| Pos. No.               | Description                                            | Material No. | Qty. Included in each Kit |    |          |
| 4a                     | Chamber N Cpl. w/Pos.45 & 65 & SiC Bearing             | 96747343     | 1                         | 2  | 3        |
| 26b                    | Bolt for strap, M8 x 25mm, 316 SS w/Delta Seal         | 96416603     | 2                         | 2  | 2        |
| 26c                    | Washer for strap, A4, ø16.0/ø8.4x1.6mm                 | 00ID3284     | 2                         | 2  | 2        |
| 45                     | Neck Ring, ø75.8 x ø59.95 x 1.5mm, PTFE-Acoflon 100    | 96487400     | 5                         | 8  | 14       |
| 47a                    | Bearing Ring/Spacer, SiC 150, ø23.4 x 14mm             | 96763100     | 1                         | 2  | 3        |
| 49c                    | Wear Ring, N, ø59.85 x 7.4mm                           | 330054       | 6                         | 10 | 17       |
| 61                     | Stop Spacer, ø29.0 x ø18.4 x ø17.6 x ø15.0 x 9.5 x 2mm | 330072       | 1                         | 1  | 1        |
| 62                     | Stop Ring, ø16.6 x ø15.0 x 1.6mm                       | 330057       | 1                         | 1  | 1        |
| 64a                    | Spacing Pipe, ø21.5 x ø17.5 x 17.0mm                   | 331416       | 1                         | 2  | 3        |
| 64b                    | Clamp, Splined, ø21.5 x ø17.6 x ø15.0 x 5.0mm          | 331401       | 1                         | 1  | 1        |
| 64c                    | Clamp, Splined, ø21.5 x ø17.6 x ø15.0 x 12.7mm         | 96496311     | 1                         | 1  | 1        |
| 64d                    | Spacing Pipe, ø21.5 x ø17.5 x 12.6mm                   | 96491535     | 1                         | 2  | 3        |
| 65                     | Neck Ring Retainer, N, ø78.8 x ø61.5 x 6.7mm           | 330059       | 5                         | 8  | 14       |
| 66                     | Lock Washer Set of 2, ø13.5 x ø8.2 x 2.6mm             | 96417297     | 1                         | 1  | 1        |
| 67                     | Lock Nut. 13mm x M8                                    | 96496488     | 1                         | 1  | 1        |

| STACK KITS (SIC) Pos.80 |              |
|-------------------------|--------------|
| Model                   | Material No. |
| CR15-2/1                | 96491736     |
| CR15-2                  | 96491737     |
| CR15-3                  | 96491738     |
| CR15-4                  | 96491739     |
| CR15-5                  | 96491740     |
| CR15-6                  | 96491741     |
| CR15-7                  | 96491742     |
| CR15-8                  | 96491743     |
| CR15-9                  | 96491744     |
| CR15-10                 | 96491745     |
| CR15-12                 | 96491746     |
| *** CR15-14             | 96491747     |
| *** CR15-17             | 96491748     |

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

| CR(I, N)15 Graflon Bearing |                                                        |              |                           |          |    |
|----------------------------|--------------------------------------------------------|--------------|---------------------------|----------|----|
| WEAR PARTS KIT 1-6         |                                                        | Kit No.      |                           | 96511826 |    |
| WEAR PARTS KIT 7-10        |                                                        | Kit No.      |                           | 96511829 |    |
| WEAR PARTS KIT 12-17       |                                                        | Kit No.      |                           | 96511832 |    |
| Pos. No.                   | Description                                            | Material No. | Qty. Included in each Kit |          |    |
| 4a                         | Chamber N Cpl. w/Pos.45 & 65 & Graflon Bearing         | 96492510     | 1                         | 2        | 3  |
| 26b                        | Bolt for strap, M8 x 25mm, 316 SS w/Delta Seal         | 96416603     | 2                         | 2        | 2  |
| 26c                        | Washer for strap, A4, Ø16.0/Ø8.4x1.6mm                 | 00ID3284     | 2                         | 2        | 2  |
| 45                         | Neck Ring, Ø75.8 x Ø59.95 x 1.5mm, PTFE-Acoflon 100    | 96487400     | 5                         | 8        | 14 |
| 47a                        | Bearing Ring/Spacer, TC, Ø21.9 x Ø17.6 x Ø15.0 x 14mm  | 330085       | 1                         | 2        | 3  |
| 49c                        | Wear Ring, N, Ø59.85 x 7.4mm                           | 330054       | 6                         | 10       | 17 |
| 61                         | Stop Spacer, Ø29.0 x Ø18.4 x Ø17.6 x Ø15.0 x 9.5 x 2mm | 330072       | 1                         | 1        | 1  |
| 62                         | Stop Ring, Ø16.6 x Ø15.0 x 1.6mm                       | 330057       | 1                         | 1        | 1  |
| 64a                        | Spacing Pipe, Ø21.5 x Ø17.5 x 17.0mm                   | 331416       | 1                         | 2        | 3  |
| 64b                        | Clamp, Splined, Ø21.5 x Ø17.6 x Ø15.0 x 5.0mm          | 331401       | 1                         | 1        | 1  |
| 64c                        | Clamp, Splined, Ø21.5 x Ø17.6 x Ø15.0 x 12.7mm         | 96496311     | 1                         | 1        | 1  |
| 64d                        | Spacing Pipe, Ø21.5 x Ø17.5 x 12.6mm                   | 96491535     | 1                         | 2        | 3  |
| 65                         | Neck Ring Retainer, N, Ø78.8 x Ø61.5 x 6.7mm           | 330059       | 5                         | 8        | 14 |
| 66                         | Lock Washer Set of 2, Ø13.5 x Ø8.2 x 2.6mm             | 96417297     | 1                         | 1        | 1  |
| 67                         | Lock Nut. 13mm x M8                                    | 96496488     | 1                         | 1        | 1  |

| CR(I, N)15 Bronze Bearing |                                                       |              |                           |          |    |  |
|---------------------------|-------------------------------------------------------|--------------|---------------------------|----------|----|--|
| WEAR PARTS KIT 1-6        |                                                       | Kit No.      |                           | 96511825 |    |  |
| WEAR PARTS KIT 7-10       |                                                       | Kit No.      |                           | 96511828 |    |  |
| WEAR PARTS KIT 12-17      |                                                       | Kit No.      |                           | 96511831 |    |  |
| Pos. No.                  | Description                                           | Material No. | Qty. Included in each Kit |          |    |  |
| 4a                        | Chamber N Cpl. w/Pos.45 & 65 & Bronze Bearing         | 96492512     | 1                         | 2        | 3  |  |
| 26b                       | Bolt for strap, M8 x 25mm, 316 SS w/Delta Seal        | 96416603     | 2                         | 2        | 2  |  |
| 26c                       | Washer for strap, A4, ø16.0/ø8.4x1.6mm                | 00ID3284     | 2                         | 2        | 2  |  |
| 45                        | Neck Ring, ø75.8 x ø59.95 x 1.5mm, PTFE-Acoflon 100   | 96487400     | 5                         | 8        | 14 |  |
| 47a                       | Bearing Ring/Spacer, TC, ø21.9 x ø17.6 x ø15.0 x 14mm | 330085       | 1                         | 2        | 3  |  |
| 49c                       | Wear Ring, N, ø59.85 x 7.4mm                          | 330054       | 6                         | 10       | 17 |  |
| 61                        | Stop Spacer,ø29.0 x ø18.4 x ø17.6 x ø15.0 x 9.5 x 2mm | 330072       | 1                         | 1        | 1  |  |
| 62                        | Stop Ring, ø16.6 x ø15.0 x 1.6mm                      | 330057       | 1                         | 1        | 1  |  |
| 64a                       | Spacing Pipe, ø21.5 x ø17.5 x 17.0mm                  | 331416       | 1                         | 2        | 3  |  |
| 64b                       | Clamp, Splined, ø21.5 x ø17.6 x ø15.0 x 5.0mm         | 331401       | 1                         | 1        | 1  |  |
| 64c                       | Clamp, Splined, ø21.5 x ø17.6 x ø15.0 x 12.7mm        | 96496311     | 1                         | 1        | 1  |  |
| 64d                       | Spacing Pipe, ø21.5 x ø17.5 x 12.6mm                  | 96491535     | 1                         | 2        | 3  |  |
| 65                        | Neck Ring Retainer, N, ø78.8 x ø61.5 x 6.7mm          | 330059       | 5                         | 8        | 14 |  |
| 66                        | Lock Washer Set of 2, ø13.5 x ø8.2 x 2.6mm            | 96417297     | 1                         | 1        | 1  |  |
| 67                        | Lock Nut, 13mm x M8                                   | 96496488     | 1                         | 1        | 1  |  |

| HQxx 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. 96511848          |   |   |   |   |   |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------|---------------------------|---|---|---|---|---|
|                                                                                                                                          |                                      |              | Kit No. 96511849          |   |   |   |   |   |
|                                                                                                                                          |                                      |              | Kit No. 96511844          |   |   |   |   |   |
|                                                                                                                                          |                                      |              | Kit No. 96511847          |   |   |   |   |   |
|                                                                                                                                          |                                      |              | Kit No. 96511846          |   |   |   |   |   |
|                                                                                                                                          |                                      |              | Kit No. 96511845          |   |   |   |   |   |
| Pos. No.                                                                                                                                 | Description                          | Material No. | Qty. Included in each Kit |   |   |   |   |   |
| 105                                                                                                                                      | HQBE                                 | 96484076*    | 1                         |   |   |   |   |   |
|                                                                                                                                          | HQBV                                 | 96484077*    |                           | 1 |   |   |   |   |
|                                                                                                                                          | HQQE                                 | 96484071*    |                           |   | 1 |   |   |   |
|                                                                                                                                          | HQQF                                 | 96484075*    |                           |   |   | 1 |   |   |
|                                                                                                                                          | HQQK                                 | 96484074*    |                           |   |   |   | 1 |   |
|                                                                                                                                          | HQQV                                 | 96484072*    |                           |   |   |   |   | 1 |
| N/A                                                                                                                                      | Grinding Device Tool for Emery Cloth | 370711       | 1                         | 1 | 1 | 1 | 1 | 1 |
| N/A                                                                                                                                      | Emery Cloth                          | 370712       | 1                         | 1 | 1 | 1 | 1 | 1 |

\* Seal material number includes the Adjusting fork 96483950.

## SPARE PART KITS (Continued)

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

\* Seal material number includes the Adjusting fork 96483950.

## Standard CR Gasket Kits

|                                                   |                                                   |                     |                                  |                 |                 |                 |                 |                 |                 |                 |
|---------------------------------------------------|---------------------------------------------------|---------------------|----------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>GASKET KIT (EPDM)</b>                          |                                                   | <b>Kit No.</b>      | <b>96509609</b>                  |                 |                 |                 |                 |                 |                 |                 |
| <b>GASKET KIT (FKM)</b>                           |                                                   | <b>Kit No.</b>      | <b>96509610</b>                  |                 |                 |                 |                 |                 |                 |                 |
| <b>GASKET KIT (FKM)</b>                           |                                                   | <b>Kit No.</b>      |                                  | <b>96534871</b> |                 |                 |                 |                 |                 |                 |
| <b>GASKET KIT (FFKM)</b>                          |                                                   | <b>Kit No.</b>      |                                  |                 | <b>96533374</b> |                 |                 |                 |                 |                 |
| <b>GASKET KIT (EPDM)-Double Seal option.</b>      |                                                   | <b>Kit No.</b>      |                                  |                 |                 | <b>96525433</b> |                 |                 |                 |                 |
| <b>GASKET KIT (FKM)-Double Seal option.</b>       |                                                   | <b>Kit No.</b>      |                                  |                 |                 |                 | <b>96525434</b> |                 |                 |                 |
| <b>GASKET KIT (FKM/EPDM)-Double Seal option.</b>  |                                                   | <b>Kit No.</b>      |                                  |                 |                 |                 |                 | <b>96525435</b> |                 |                 |
| <b>GASKET KIT (FFKM/FFKM)-Double Seal option.</b> |                                                   | <b>Kit No.</b>      |                                  |                 |                 |                 |                 |                 | <b>96525436</b> |                 |
| <b>GASKET KIT (FKM/EPDM)-Cool Top option.</b>     |                                                   | <b>Kit No.</b>      |                                  |                 |                 |                 |                 |                 |                 | <b>96525432</b> |
| <b>Pos. No.</b>                                   | <b>Description</b>                                | <b>Material No.</b> | <b>Qty. Included in each Kit</b> |                 |                 |                 |                 |                 |                 |                 |
| 37                                                | Sleeve O-ring, EPDM (WRC NSF), ø170.7 x 3.3mm     | 96483101            | 2                                |                 |                 |                 | 3               |                 | 1               | 1               |
|                                                   | Sleeve O-ring, FKM, ø170.7 x 3.3mm                | 96483102            |                                  | 2               |                 |                 |                 | 3               |                 | 1               |
| 37b                                               | Sleeve O-ring, FKM, ø171.25 x 3.3mm               | 96483109            |                                  |                 | 2               |                 |                 |                 | 2               | 2               |
|                                                   | Sleeve O-ring, FFKM, ø170.7 x 3.3mm               | 96483140            |                                  |                 |                 | 2               |                 |                 | 2               |                 |
| 37c                                               | Disc Plate O-ring, EPDM, ø155.0 x 3.0mm           | 96509703            |                                  |                 |                 |                 |                 |                 |                 | 1               |
|                                                   | Disc Plate O-ring, FKM, ø155.0 x 3.0mm            | 96480168            |                                  |                 |                 |                 |                 |                 |                 |                 |
| 38, 100(a,b)                                      | Drain Plug O-ring, EPDM, ø16.3 x 2.4mm            | 00ID1288            | 3                                |                 |                 |                 | 7               |                 | 4               | 1               |
|                                                   | Drain Plug O-ring, FKM, ø16.3 x 2.4mm             | 00ID2231            |                                  | 3               |                 |                 |                 | 7               |                 | 4               |
|                                                   | Drain Plug O-ring, FKM, ø16.3 x 2.4mm             | 96442869            |                                  |                 | 3               |                 |                 |                 |                 | 3               |
|                                                   | Drain Plug O-ring, FFKM, ø16.3 x 2.4mm            | 96428162            |                                  |                 |                 | 3               |                 |                 | 3               |                 |
| 38a                                               | Drain Plug O-ring, EPDM, ø5.3 x 2.4mm             | 00ID2142            | 1                                |                 |                 |                 | 1               |                 |                 |                 |
|                                                   | Drain Plug O-ring, FKM, ø5.3 x 2.4mm              | 00ID3945            |                                  |                 |                 |                 |                 | 1               |                 |                 |
|                                                   | Drain Plug O-ring, FKM, ø5.3 x 2.4mm              | 96511292            |                                  |                 | 1               |                 |                 |                 |                 | 1               |
|                                                   | Drain Plug O-ring, FFKM, ø5.3 x 2.4mm             | 96511293            |                                  |                 |                 | 1               |                 |                 | 1               |                 |
| 39                                                | Flange O-ring, EPDM, ø90 x 3mm                    | 96496200            | 2                                |                 |                 |                 | 2               |                 |                 |                 |
|                                                   | Flange O-ring, FKM, ø90 x 3mm                     | 00ID2856            |                                  | 2               |                 |                 |                 | 2               |                 |                 |
|                                                   | Flange gasket, Fiber, 122mm x ø60 x ø44 x 2mm     | 420039              | 2                                | 2               |                 |                 | 2               | 2               | 2               | 2               |
|                                                   | Flange gasket, Fiber, ø102 x ø65 x 2mm            | 330035              | 2                                | 2               | 2               | 2               | 2               | 2               | 2               | 2               |
|                                                   | Flange gasket, Fiber, ø92 x ø49 x 2mm             | 00ID2582            | 2                                | 2               | 2               | 2               | 2               | 2               | 2               | 2               |
| 60(a)                                             | Stack Compression Spring, EPDM, ø11.0xø7.0x15.5mm | 96503070            | 4                                |                 |                 |                 | 4               |                 |                 | 4               |
|                                                   | Stack Compression Spring, FKM, ø11.0xø7.0x15.5mm  | 96503072            |                                  | 4               |                 |                 |                 | 4               |                 |                 |
|                                                   | Stack Compression Spring, PTFE, ø11.0xø7.0x15.5mm | 96503071            |                                  |                 | 4               | 4               |                 |                 | 4               | 4               |
| 109a                                              | Disc Plate O-ring, EPDM, ø27.5 x 2.75mm           | 96483103            |                                  |                 |                 |                 |                 |                 |                 |                 |
|                                                   | Disc Plate O-ring, FKM, ø27.5 x 2.75mm            | 96483104            |                                  |                 |                 |                 |                 |                 |                 |                 |
|                                                   | Disc Plate O-ring, FKM, ø27.5 x 2.75mm            | 96483141            |                                  |                 |                 |                 |                 |                 |                 | 1               |

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

|                                                           |                                         |                     |                                  |                 |                 |                 |                 |                 |                 |                 |
|-----------------------------------------------------------|-----------------------------------------|---------------------|----------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>Kit, O-ring EPDM CR-H, CRN-H10/15/20/32 GA/G05/G22</b> |                                         | <b>Kit No.</b>      | <b>96922800</b>                  |                 |                 |                 |                 |                 |                 |                 |
| <b>Kit, O-ring FKM CR-H, CRN-H10/15/20/32 GA/G05/G22</b>  |                                         | <b>Kit No.</b>      |                                  | <b>96922802</b> |                 |                 |                 |                 |                 |                 |
| <b>Kit, O-ring FKM CR-H, CRN-H10/15/20/32 GA/G05/G22</b>  |                                         | <b>Kit No.</b>      |                                  |                 | <b>96922816</b> |                 |                 |                 |                 |                 |
| <b>Kit, O-ring FFKM CR-H, CRN-H10/15/20/32 GA/G05/G22</b> |                                         | <b>Kit No.</b>      |                                  |                 |                 | <b>96922822</b> |                 |                 |                 |                 |
| <b>Kit, O-ring EPDM CR-H, CRN-H10/15/20/32 GB-G60</b>     |                                         | <b>Kit No.</b>      |                                  |                 |                 |                 | <b>96956134</b> |                 |                 |                 |
| <b>Kit, O-ring FKM CR-H, CRN-H10/15/20/32 GB-G60</b>      |                                         | <b>Kit No.</b>      |                                  |                 |                 |                 |                 | <b>96956135</b> |                 |                 |
| <b>Kit, O-ring FKM CR-H, CRN-H10/15/20/32 GB-G60</b>      |                                         | <b>Kit No.</b>      |                                  |                 |                 |                 |                 |                 | <b>96923565</b> |                 |
| <b>Kit, O-ring FFKM CR-H, CRN-H10/15/20/32 GB-G60</b>     |                                         | <b>Kit No.</b>      |                                  |                 |                 |                 |                 |                 |                 | <b>96923571</b> |
| <b>Pos. No.</b>                                           | <b>Description</b>                      | <b>Material No.</b> | <b>Qty. Included in each Kit</b> |                 |                 |                 |                 |                 |                 |                 |
| 72a                                                       | O-ring, 2-268 EPDM ø215.5 x 3.5mm       | 95922038            |                                  | 1               |                 |                 |                 | 1               |                 |                 |
|                                                           | O-ring, 2-268 Viton ø215.5 x 3.5mm      | 95922039            |                                  |                 | 1               |                 |                 |                 | 1               |                 |
|                                                           | O-ring, 2-268 Fluoraz ø215.5 x 3.5mm    | 95922040            |                                  |                 |                 | 1               |                 |                 |                 | 1               |
|                                                           | O-ring, 2-268 FFKM ø215.5 x 3.5mm       | 95131208            |                                  |                 |                 |                 | 1               |                 |                 |                 |
| 39b                                                       | O-ring, 2-230 EPDM ø63.1 x 3.5mm        | 95922032            |                                  | 1               |                 |                 |                 |                 |                 |                 |
|                                                           | O-ring, 2-230 Viton ø63.1 x 3.5mm       | 95922033            |                                  |                 | 1               |                 |                 |                 |                 |                 |
|                                                           | O-ring, 2-230 Fluoraz ø63.1 x 3.5mm     | 95922034            |                                  |                 |                 | 1               |                 |                 |                 |                 |
|                                                           | O-ring, 2-230 FFKM ø63.1 x 3.5mm        | 95131189            |                                  |                 |                 |                 | 1               |                 |                 |                 |
|                                                           | O-ring, Parker 2-238 EPDM ø88.5 x 3.5mm | 95922035            |                                  |                 |                 |                 |                 | 1               |                 |                 |
|                                                           | O-ring, 2-238 Viton ø88.5 x 3.5mm       | 95922036            |                                  |                 |                 |                 |                 |                 | 1               |                 |
|                                                           | O-ring, 2-238 Fluoraz ø88.5 x 3.5mm     | 95952037            |                                  |                 |                 |                 |                 |                 |                 | 1               |
|                                                           | O-ring, 2-238 FFKM ø88.5 x 3.5mm        | 95131207            |                                  |                 |                 |                 |                 |                 |                 | 1               |

## NEMA COUPLING KIT

|          |                                                      | ø15.9/ø16                | Kit No.                   | 96511353 |   |          |   |
|----------|------------------------------------------------------|--------------------------|---------------------------|----------|---|----------|---|
|          |                                                      | ø28.6/ø16 (Option- High) | Kit No.                   | 96753660 |   |          |   |
|          |                                                      | ø34.9/ø16 (Option- High) | Kit No.                   |          |   | 96753661 |   |
|          |                                                      | ø41.3/ø16                | Kit No.                   |          |   | 96511356 |   |
| Pos. No. | Description                                          | Material No.             | Qty. Included in each Kit |          |   |          |   |
| 9        | Allen Screw, M6 x 20mm, Delta Seal                   | 00ID7899                 | 4                         |          |   |          |   |
|          | Allen Screw, M10 x 25mm, Delta Seal                  | 00ID7901                 |                           | 4        |   |          | 4 |
| 10       | Shaft Pin, ø5 x 26mm, Stainless                      | 310192                   | 1                         | 1        |   | 1        | 1 |
| 10a      | Coupling, Half set, 56C, 1/3 - 2HP, ø15.8 / ø16      | 96516777                 | 1                         |          |   |          |   |
|          | Cplg. Half set, 182/184TC, 3-SHP, High, ø28.5/ø16    | 96516009                 |                           | 1        |   |          |   |
|          | Cplg. Half set, 213TC, 7.5-10HP, High, ø34.9/ø16     | 96516770                 |                           |          | 1 |          |   |
|          | Cplg. Half set, 254TC-284/286TSC, 15-25HP, ø41.2/ø16 | 96516771                 |                           |          |   |          | 1 |
|          | N/A                                                  | Adjusting Fork           | 96483950                  | 1        |   |          |   |

# Spare Part Kits CR15-H

## SPARE PART KITS (Continued)

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

| Air Vent Kit - Horizontal Units |                                           | Kit No. 91136720 |                           |
|---------------------------------|-------------------------------------------|------------------|---------------------------|
| CR-H, CRN-H15 to 20             |                                           |                  |                           |
| Pos. No.                        | Description                               | Material No.     | Qty. Included in each Kit |
| 117                             | Air Vent Pipe, short for 118, G1/2, 60x43 | 96525189         | 1                         |
| 117a                            | Counter Nut for Pipe 117, G1/2            | 96506709         | 2                         |
| 118                             | Air vent type 1511-AV - 5/6430            | 96427483         | 1                         |

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

**ACCESSORIES** (Continued)

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

# Spare Part Kits CR15-H

## ACCESSORIES (Continued)

| Baseplate Kit |                                                             | Kit No.      |                           |   |
|---------------|-------------------------------------------------------------|--------------|---------------------------|---|
| 139           | 56C for GA/B/C                                              | 97534517     |                           |   |
|               | 182TC for GA/B/C                                            | 97534518     |                           |   |
| XLBP1         | 56C for GA/B/C                                              | Kit No.      | 97534573                  |   |
|               | 182TC for GA/B/C                                            | Kit No.      | 97534574                  |   |
| Pos. No.      | Description                                                 | Material No. | Qty. Included in each Kit |   |
| 90            | Baseplate Cpl. 139, L=991" x W=305" x H=106.4768"           | 96956336     | 1                         | 1 |
|               | Baseplate Cpl. XLBP1, L=1500" x W=305" x H=106.4768"        | 96956376     |                           | 1 |
| 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 |
| 56f           | Bolt, Hex Head 1/2 -13 UNC x 1" SAE 5, Zinc plated          | N/A          | 2                         | 2 |
| 56g           | Washer, 1/2" SAE, Zinc plated                               | N/A          | 2                         | 2 |
| 90a           | Bolt, Hex Head 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/B/C                                            | 97534520     |                           |   |   |   |
|               | 254TC for GA/B/C                                            | 97534531     |                           |   |   |   |
| XLBP2         | 213TC for GA/B/C                                            | 97573875     |                           |   |   |   |
|               | 254TC for GA/B/C                                            | 97534579     |                           |   |   |   |
| Pos. No.      | Description                                                 | Material No. | Qty. Included in each Kit |   |   |   |
| 90            | Baseplate Cpl. 148, L=1219" x W=381" x H=107.9"             | 96956346     | 1                         | 1 |   |   |
|               | Baseplate Cpl. XLBP2, L=1777.8" x W=381" x H=107.9"         | 96956377     |                           |   | 1 | 1 |
| N/A           | Slider & fastners for 213TC(consists of slider & hardware)  | 96983859     | 1                         |   | 1 |   |
| N/A           | Slider & fastner 254TC (cont. of 56k , slider & hardware)   | 96983862     |                           | 1 |   | 1 |
| N/A           | Hardware Kit -96983859(consists of pos.56f, g, 90a,d& f)**  | 97501482     | 1                         |   | 1 |   |
| N/A           | Hardware Kit -96983862 (cont. pos.56f, g & m, 90a, d & f)** | 97501483     |                           | 1 |   | 1 |
| 56f           | Bolt, Hex Head 1/2 -13 UNC x 1.25" SAE 5, Zinc plated       | N/A          | 2                         |   | 2 |   |
|               | Bolt, Hex Head 1/2 -13 UNC x 2.25" SAE 5, Zinc plated       | N/A          |                           | 2 |   | 2 |
| 56g           | Washer, 1/2" SAE, Zinc plated                               | N/A          | 2                         |   | 2 | 2 |
| 56k           | Volute Spacer, 148 BP 254T, L=200" x H=25.4" x W=78.2       | 96956349     |                           | 1 |   | 1 |
| 56m           | Slotted Spring Pin ø3/16" x 1" Zinc Plated                  | N/A          |                           | 2 |   | 2 |
| 90a           | Bolt, Hex Head 3/8 -16 UNC x 5/8" SAE 5, Zinc plated        | N/A          | 4                         |   | 4 |   |
|               | Bolt, Hex Head 1/2 -13 UNC x 1.5" SAE 5, Zinc plated        | N/A          |                           | 4 |   | 4 |
| 90b           | Slider, GA/B/C 213TC/148BP, L=252" x H=20" x W=25.4"        | 96956347     | 2                         |   | 2 |   |
|               | Slider, GA/B/C 254TC/148BP, L=299" x H=20.3" x W=38.1"      | 96956348     |                           | 2 |   | 2 |
| 90d           | Bolt, Hex Head 1/4 -20 UNC x 1.75" SAE 5, Zinc plated       | N/A          | 4                         |   | 4 |   |
|               | Bolt, Hex Head 1/4 -20 UNC x 2.5" SAE 5, Zinc plated        | N/A          |                           | 4 |   | 4 |
| 90f           | Washer, 3/8" SAE, Zinc plated                               | N/A          | 4                         |   | 4 |   |
|               | Washer, 1/2" SAE, Zinc plated                               | N/A          |                           | 4 |   | 4 |

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

| Baseplate Kit |                                                            | Kit No.      |                           |
|---------------|------------------------------------------------------------|--------------|---------------------------|
| XLBP4         | 284TC for GA/B/C                                           | 97534594     |                           |
| Pos. No.      | Description                                                | Material No. | Qty. Included in each Kit |
| 90            | Baseplate Cpl. XLBP4, L=2406.4" x W=457.2" x H=194*        | 96957102     | 1                         |
| N/A           | Slider & fastners for 284TC(consists of slider & hardware) | 96983863     | 1                         |
| N/A           | Hardware Kit -96983871(cont. of pos.56f & g, 90a,d & f)**  | 97501484     | 1                         |
| 56f           | Bolt, Hex Head 1/2 -13 UNC x 1.25" SAE 5, Zinc plated      | N/A          | 2                         |
| 56g           | Washer, 1/2" SAE, Zinc plated                              | N/A          | 2                         |
| 90a           | Bolt, Hex Head 1/2 -13 UNC x 1.5" SAE 5, Zinc plated       | N/A          | 4                         |
| 90b           | Slider, GA/B/C, 284TC/153BP, L=366" x H=46" x W=25.4*      | 96956351     | 2                         |
| 90d           | Bolt, Hex Head 1/4 -20 UNC x 2.25" SAE 5, Zinc plated      | N/A          | 4                         |
| 90f           | Washer, 1/2" SAE, Zinc plated                              | N/A          | 4                         |

\* Values in mm, Length (L) is +/- 2mm, Height (H) is +/- 1mm, Width (W). \*\* Hardware kit 97501484 is also available for sale.

**ACCESSORIES** (Continued)

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

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

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

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

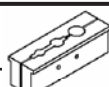
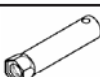
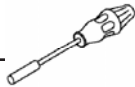
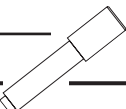
| Baseplate Kit |                                                            |              |                           |
|---------------|------------------------------------------------------------|--------------|---------------------------|
| 258           | 254-286TC for G05/10/50/60/70/22/33/44                     | Kit No.      | 97534543                  |
| XLBP3         | 254-286TC for G05/10/50/60/70/22/33/44                     | Kit No.      | 97573876                  |
| Pos. No.      | Description                                                | Material No. | Qty. Included in each Kit |
| 90            | Baseplate Cpl. 258, L=1473.2" x W=457.2" x H=119.1"        | 96956360     | 1                         |
|               | Baseplate Cpl. XLBP3, L=2406.4" x W=457.2" x H=119.1"      | 96956379     | 1                         |
| N/A           | Slider & fastners for 254TC(consists of slider & hardware) | 96983871     | 1                         |
| N/A           | Hardware Kit -96983871(cont. of pos.56f & g, 90a,d & f)**  | 97501493     | 1                         |
| 56f           | Bolt, Hex Head 1/2 -13 UNC x 1" SAE 5, Zinc plated         | N/A          | 2                         |
| 56g           | Washer, 1/2" SAE, Zinc plated                              | N/A          | 2                         |
| 90a           | Bolt, Hex Head 1/2 -13 UNC x 1.25" SAE 5, Zinc plated      | N/A          | 4                         |
| 90b           | Slider, G05/22, 254TC/258BP, L=354" x H=67" x W=25.4"      | 96956361     | 2                         |
| 90d           | Bolt, Hex Head 1/4 -20 UNC x 1.75" SAE 5, Zinc plated      | N/A          | 4                         |
| 90f           | Washer, 1/2" SAE, Zinc plated                              | N/A          | 4                         |

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

# Spare Part Kits • Special Tools **CR15-H**

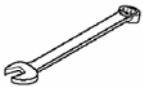
## SPECIAL TOOLS

Tools not generally available from normal sources.

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

## STANDARD TOOLS

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

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



**BE > THINK > INNOVATE >**

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



L-CR-SM-052 11/11 US

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**GRUNDFOS Pumps Corporation**  
17100 W. 118th Terrace  
Olathe, Kansas 66062  
Phone: 913.227.3400  
Fax: 913.227.3500  
[www.grundfos.com](http://www.grundfos.com)

**GRUNDFOS Canada, Inc.**  
2941 Brighton Road  
Oakville, Ontario L6H 6C9 Canada  
Phone: 905.829.9533  
Fax: 905.829.9512

**Bombas GRUNDFOS de Mexico S.A. de C.V.**  
Boulevard TLC No. 15  
Parque Industrial Stiva Aeropuerto  
Apodaca, N.L. Mexico 66600  
Phone: 52.81.8144.4000  
Fax: 52.81.8144.4010

**GRUNDFOS**