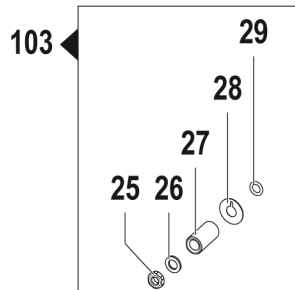
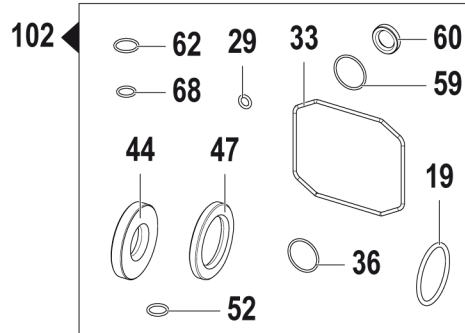
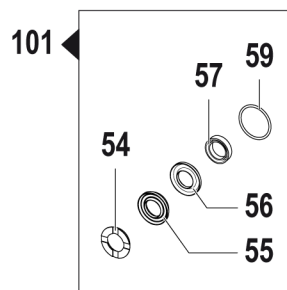
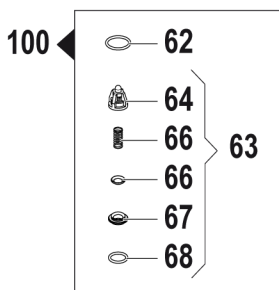
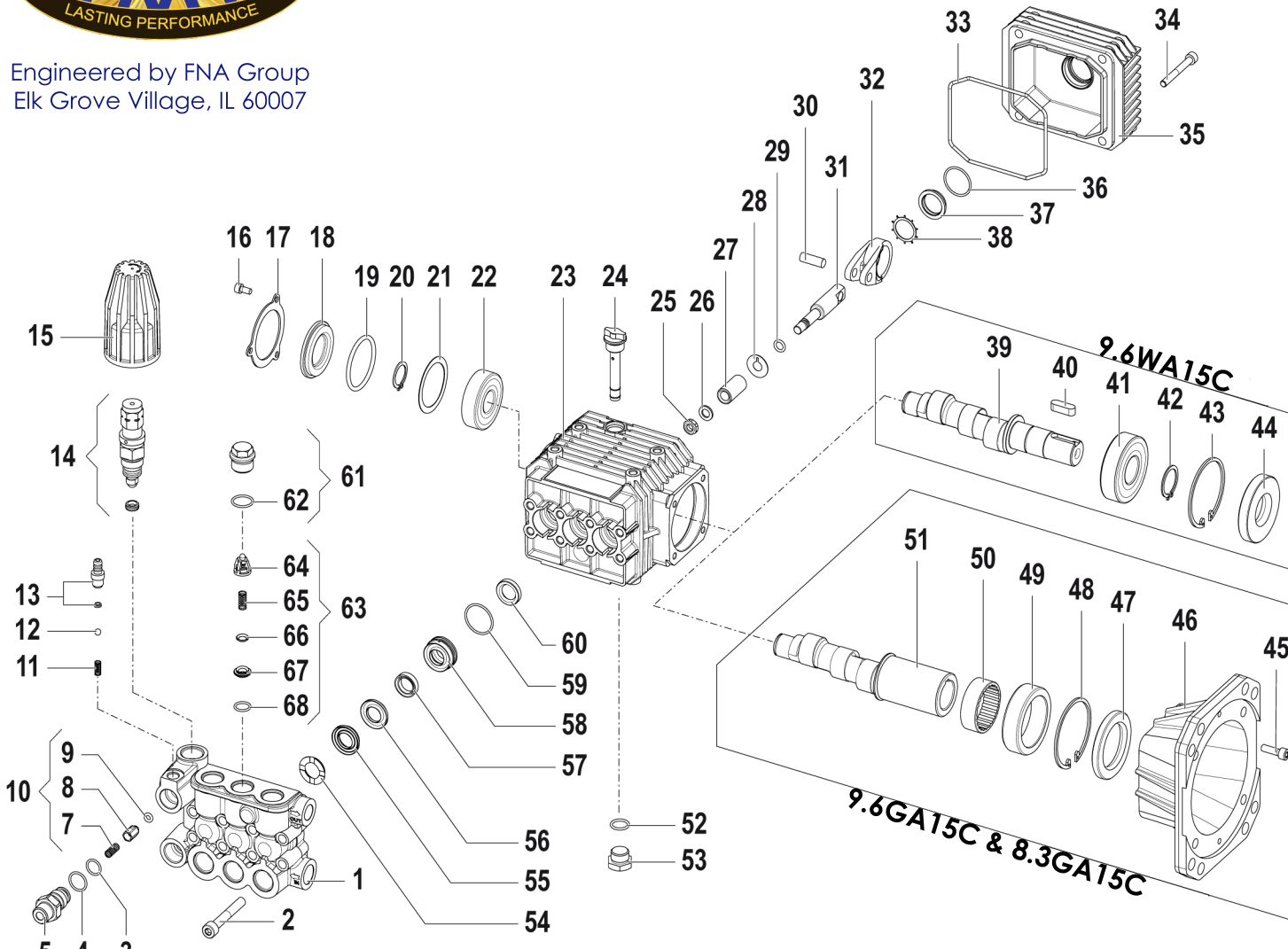




# PUMP DIAGRAM

## 9.6WA15C, 9.6GA15C, 8.3GA15C

Engineered by FNA Group  
Elk Grove Village, IL 60007



| Pumps Covered By This Document |          |
|--------------------------------|----------|
| Part No.                       | Model    |
| 7104757                        | 9.6WA15C |
| 7104820                        | 9.6GA15C |
| 7104858                        | 8.3GA15C |

| Torque Specifications |          |               |       |       |     |                 |
|-----------------------|----------|---------------|-------|-------|-----|-----------------|
| No.                   | Part No. | Description   | lb.ft | lb.in | N.m | Apply To Thread |
| 2                     | 7105403  | M8 x 55 Screw | 18.4  | 220   | 25  | -               |
| 16                    | 7105412  | M5 x 10 Screw | 3.0   | 40    | 4   | -               |
| 25                    | -        | Piston Nut    | 4.4   | 50    | 6   | Loctite 243     |
| 34                    | 7105425  | M6 x 50 Screw | 6.6   | 80    | 9   | -               |
| 45                    | 7105436  | M6 x 20 Screw | 6.6   | 80    | 9   | -               |
| 61                    | 7105446  | Valve Plug    | 33.2  | 400   | 45  | Loctite 243     |

7105747 ZWD-K 4042 BELT DRIVE 9.6WA15C  
7104820 ZWD-K 4042 DIRECT DRIVE 9.6GA15C  
7104858 ZWD-K 3538 DIRECT DRIVE 8.3GA15C

| DWG NO.                 | PART NO. | DESCRIPTION                                | QTY. | Models            |
|-------------------------|----------|--|------|-------------------|
| 1                       | 7105402  | MANIFOLD, COMET ZWD-K PUMP BRASS           | 1    | ALL               |
| 2                       | 7105403  | SCREW, COMET ZWD-K PUMP M8 X 55            | 8    | ALL               |
| 3                       | -        | O-RING, Ø1.78 X 12.42mm                    | 1    | ALL               |
| 4                       | -        | O-RING, Ø1.78 X 15.6mm                     | 1    | ALL               |
| 5                       | -        | INJECTOR BODY, Ø1.8mm - M22-1.5            | 1    | ALL               |
| 6                       | 7105404  | INJECTOR BODY KIT, COMET ZWD-K PUMP        | 1    | ALL               |
| 7                       | -        | SPRING, CHECK VALVE                        | 1    | ALL               |
| 8                       | -        | CHECK VALVE                                | 1    | ALL               |
| 9                       | 7105405  | O-RING, COMET ZWD-K PUMP 2.4 X 4.3MM       | 1    | ALL               |
| 10                      | 7105406  | CHECK VALVE KIT, COMET ZWD-K INJECTOR      | 1    | ALL               |
| 11                      | 7105407  | INJECTOR SPRING, COMET ZWD-K PUMP          | 1    | ALL               |
| 12                      | 7105408  | CHECK BALL, COMET ZWD-K PUMP INJECTOR      | 1    | ALL               |
| 13                      | 7105409  | COUPLING, COMET ZWD-K PUMP INJECTOR        | 1    | ALL               |
| 14                      | 7105410  | UNLOADER KIT, COMET ZWD-K PUMP             | 1    | ALL               |
| 15                      | 7105411  | KNOB, COMET ZWD-K PUMP UNLOADER            | 1    | ALL               |
| 16                      | 7105412  | SCREW, COMET ZWD-K PUMP M5 X 10            | 3    | ALL               |
| 17                      | 7105413  | CRANKCASE FLANGE, COMET ZWD-K PUMP         | 1    | ALL               |
| 18                      | 7105414  | END COVER, COMET ZWD-K PUMP ALUMINUM       | 1    | ALL               |
| 19                      | 7105415  | O-RING, COMET ZWD-K PUMP 3.53 X 44.04MM    | 1    | ALL               |
| 20                      | 7105416  | EXTERNAL SNAP RING, COMET ZWD-K PUMP       | 1    | ALL               |
| 21                      | 7105417  | SPACER, COMET ZWD-K PUMP BEARING/COVER     | 1    | ALL               |
| 22                      | 7105418  | CRANKSHAFT BEARING, COMET ZWD-K PUMP       | 1    | ALL               |
| 23                      | 7105419  | CRANKCASE, COMET ZWD-K PUMP ALUMINUM       | 1    | ALL               |
| 24                      | 7105420  | OIL DIPSTICK, COMET ZWD-K PUMP             | 1    | ALL               |
| 25                      | -        | SPECIAL NUT                                | 3    | ALL               |
| 26                      | -        | WASHER                                     | 3    | ALL               |
| 27                      | -        | CERAMIC BUSHING                            | 3    | ALL               |
| 28                      | -        | WASHER                                     | 3    | ALL               |
| 29                      | -        | O-RING                                     | 3    | ALL               |
| 30                      | 7105421  | PISTON GUIDE PIN, COMET ZWD-K PUMP         | 3    | ALL               |
| 31                      | 7105422  | PISTON GUIDE, COMET ZWD-K PUMP             | 3    | ALL               |
| 32                      | 7105423  | CONNECTING ROD, COMET ZWD-K PUMP           | 3    | ALL               |
| 33                      | 7105424  | O-RING, COMET ZWD-K PUMP 3.0 X 94MM        | 1    | ALL               |
| 34                      | 7105425  | SCREW, COMET ZWD-K PUMP M6 X 50            | 4    | ALL               |
| 35                      | 7105426  | SIDE COVER, COMET ZWD-K PUMP CRANKCASE     | 1    | ALL               |
| 36                      | 7105427  | O-RING, COMET ZWD-K PUMP 1.78 X 23.52MM    | 1    | ALL               |
| 37                      | 7105428  | SIGHT GLASS, COMET ZWD-K PUMP              | 1    | ALL               |
| 38                      | 7105429  | RETAINING RING, COMET ZWD-K PUMP           | 1    | ALL               |
| 39                      | 7105430  | CRANKSHAFT, COMET ZWD-K4042S BELT DRIVE    | 1    | 7104757 ONLY      |
| 40                      | 7105431  | SHAFT KEY, COMET ZWD-K4042S BELTDRIVE      | 1    | 7104757 ONLY      |
| 41                      | 7105432  | CRANK BEARING, COMET ZWD-K4042S BELT DRIVE | 1    | 7104757 ONLY      |
| 42                      | 7105433  | SNAP RING, EXT COMET ZWD-K4042S BELT DRIVE | 1    | 7104757 ONLY      |
| 43                      | 7105434  | SNAP RING, INT COMET ZWD-K4042S BELTDRIVE  | 1    | 7104757 ONLY      |
| 44                      | 7105435  | OIL SEAL, CRANKSHAFT, COMET ZWD-K4042S BD  | 1    | 7104757 ONLY      |
| 45                      | 7105436  | SCREW, COMET ZWD-K DIRECT DRIVE M6 X 20    | 4    | 7104858 & 7104820 |
| 46                      | 7105437  | MOUNTING FLANGE, COMET ZWD-K DIRECTDRIVE   | 1    | 7104858 & 7104820 |
| 47                      | 7105438  | OIL SEAL, CRANKSHAFT COMET ZWD-K DD        | 1    | 7104858 & 7104820 |
| 48                      | 7105439  | BUSHING, CRANKSHAFT COMET ZWD-K DD         | 1    | 7104858 & 7104820 |
| 49                      | 7105440  | BEARING, CRANKSHAFT COMET ZWD-K DD         | 1    | 7104858 & 7104820 |
| 50                      | 7105441  | CRANKSHAFT COMET ZWD-K3538G DD 1.00"       | 1    | 7104858           |
| 51                      | 7105442  | CRANKSHAFT COMET ZWD-K4042G DD 1.00"       | 1    | 7104820           |
| 52                      | 7105443  | O-RING, COMET ZWD-K PUMP 2.0 X 14MM        | 1    | ALL               |
| 53                      | 7105444  | PLUG, COMET ZWD-K OIL DRAIN 3/8" GAS       | 1    | ALL               |
| 54                      | -        | PACKING HEAD RING                          | 1    | ALL               |
| 55                      | -        | PACKING                                    | 3    | ALL               |
| 56                      | -        | BACK RING                                  | 3    | ALL               |
| 57                      | -        | PACKING                                    | 3    | ALL               |
| 58                      | -        | PACKING                                    | 3    | ALL               |
| 59                      | -        | O-RING                                     | 3    | ALL               |
| 60                      | 7105445  | OIL SEAL, COMET ZWD-K PUMP 15 X 24 X 5MM   | 3    | ALL               |
| 61                      | 7105446  | PLUG KIT, COMET ZWD-K PUMP VALVE           | 3    | ALL               |
| 62                      | 7105447  | O-RING, COMET ZWD-K PUMP 1.78 X 17.17MM    | 6    | ALL               |
| 63                      | -        | PRESSURE VALVE ASSEMBLY                    | 6    | ALL               |
| 64                      | -        | VALVE CAGE                                 | 6    | ALL               |
| 65                      | -        | VALVE SPRING                               | 6    | ALL               |
| 66                      | -        | VALVE                                      | 6    | ALL               |
| 67                      | -        | SEAT                                       | 6    | ALL               |
| 68                      | -        | O-RING                                     | 6    | ALL               |
| <b>Spare Parts Kits</b> |          |  |      |                   |
| 100                     | 7105448  | VALVE KIT, COMET ZWD-K PUMP (62-68)        | 1    | ALL               |
| 101                     | 7105449  | WATER SEAL KIT, COMET ZWD-K PUMP (54-56)   | 1    | ALL               |
| 102                     | 7105450  | OIL SEAL KIT, COMET ZWD-K PUMP             | 1    | ALL               |
| 103                     | 7105451  | PISTON KIT, COMET ZWD-K PUMP 15MM(25-29)   | 1    | ALL               |