

# FDK Series

## STAINLESS STEEL PUMP



Soild Shaft Ø30mm

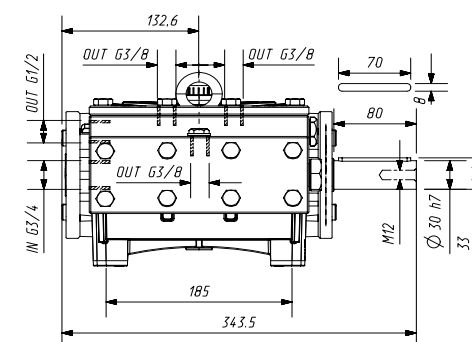
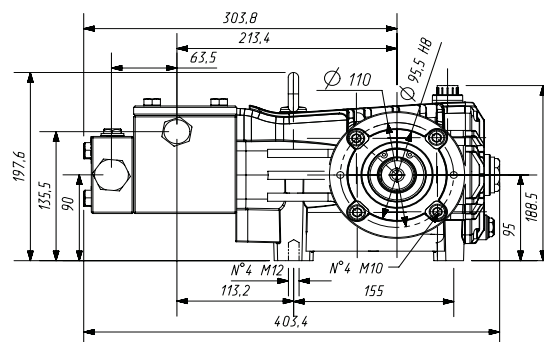
### SPECIFICATIONS

| Pump Model            | FDK 3050    | FDK 4035 | FDK 5030 | FDK 5525 | FDK 3650 | FDK 4835 | FDK 6030 | FDK 6625 |
|-----------------------|-------------|----------|----------|----------|----------|----------|----------|----------|
| Flow Rate (L/min)     | 30          | 40       | 50       | 55       | 36       | 48       | 60       | 66       |
| Pressure (bar)        | 500         | 350      | 300      | 250      | 500      | 350      | 300      | 250      |
| Power (kw)            | 28.8        | 28       | 30       | 27.5     | 36       | 33.5     | 36       | 33       |
| RPM                   | 1450        | 1450     | 1450     | 1450     | 1750     | 1750     | 1750     | 1750     |
| Shaft Diameter (mm)   | 30          |          |          |          |          |          |          |          |
| Plunger Stroke (mm)   | 24.2        | 30       | 30       | 34       | 24.2     | 30       | 30       | 34       |
| Plunger Diameter (mm) | 20          | 20       | 22       | 22       | 20       | 20       | 22       | 22       |
| Oil Capacity (ml)     | 1700        |          |          |          |          |          |          |          |
| Inlet Thread          | G 3/4       |          |          |          |          |          |          |          |
| Outlet Thread         | G 1/2       |          |          |          |          |          |          |          |
| Weight (kg)           | 38.5        |          |          |          |          |          |          |          |
| Dimensions (mm)       | 404x344x189 |          |          |          |          |          |          |          |

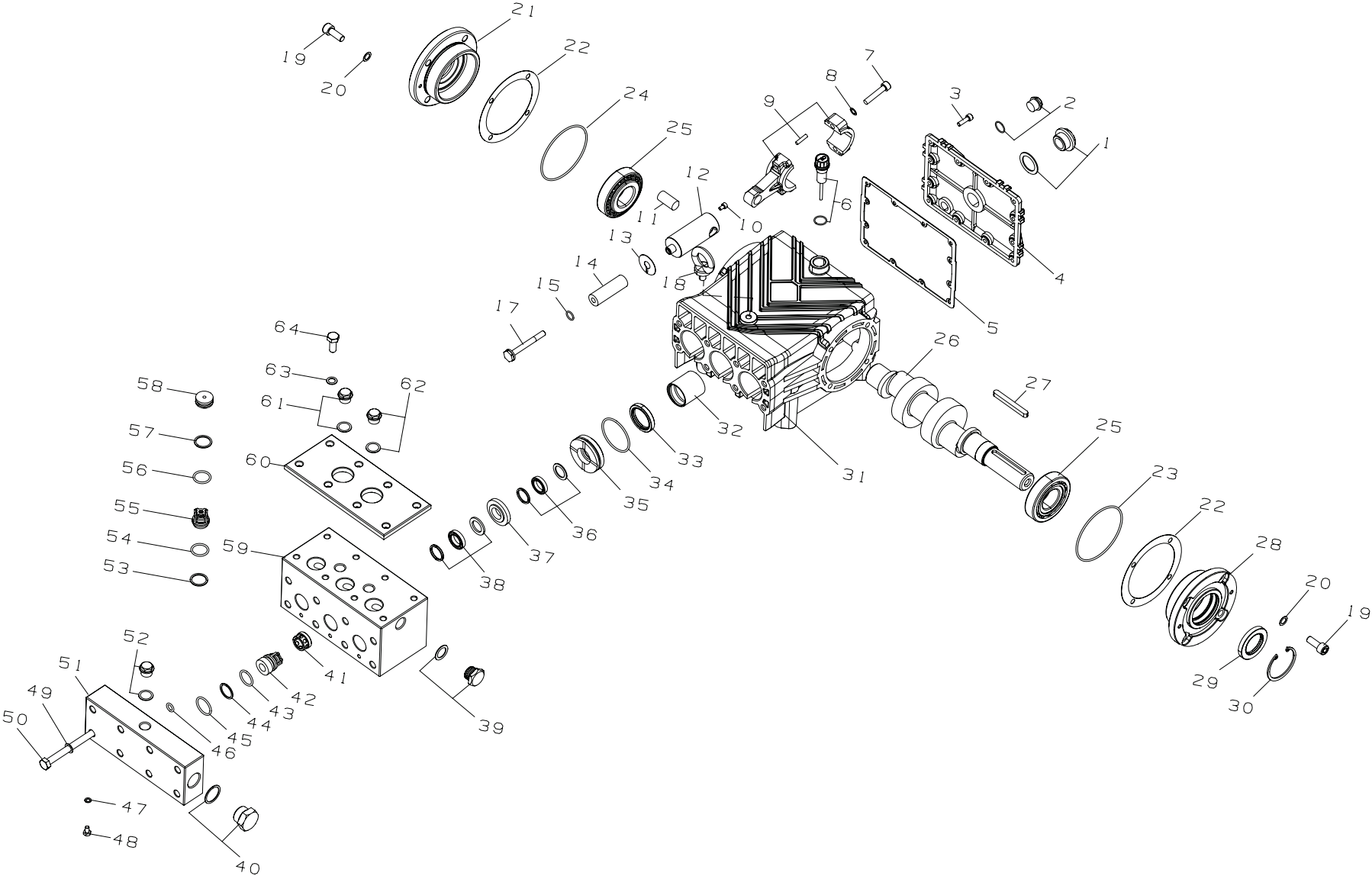
### FEATURES

- Stainless-steel high-flow pump head provides corrosion resistance and stability for high-flow operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with smooth surface finish for long service life.

### DIMENSIONS(mm)



EXPLODED VIEW



## COMPONENTS

| ITEM | PART NO.     | Name                          | QTY | ITEM | PART NO.     | Name                      | QTY | ITEM | PART NO.    | Name                               | QTY |
|------|--------------|-------------------------------|-----|------|--------------|---------------------------|-----|------|-------------|------------------------------------|-----|
| 1    | 7.906-160    | Oil Sight Glass               | 1   | 23   | 7.906-019.9  | End Cover Seal            | 2   | 44   | 7.906-050   | Inlet Valve Retaining Ring         | 3   |
| 2    | 7.400-011.1  | Plug                          | 1   | 24   | 7.906-019.9  | End Cover Seal            | 2   | 45   | 7.906-049.1 | Inlet Plate Sealing Ring           | 3   |
| 3    | 7.301-007    | Rear Cover Screws             | 12  | 25   | 7.906-014.3  | Bearing                   | 2   | 46   | 7.906-005.1 | Cooling Water Sealing Ring         | 3   |
| 4    | 7.906-011.4  | Rear Cover                    | 1   | 26   | 7.906-025.19 | Crankshaft                | 1   | 47   | 7.906-046   | Stainless Steel Gasket             | 3   |
| 5    | 7.906-010.3  | Rear Cover Oil Washer         | 1   | 27   | 7.906-150    | Parallel Key              | 1   | 48   | 7.301-011   | Cooling Water Screw                | 3   |
| 6    | 7.906-034    | Dipstick                      | 1   | 28   | 7.906-011.4  | Side Cover                | 1   | 49   | 7.906-145   | Double-Sided Toothed Washer        | 8   |
| 7    | 7.301-020    | Connecting Rod Screws         | 6   | 29   | 7.906-051.3  | Rotating Oil Seal         | 1   | 50   | 7.301-026   | Stud                               | 8   |
| 8    | 7.301-031    | Connecting Rod Screws Washers | 6   | 30   | 7.301-035    | Rotating Oil Seal Circlip | 1   | 51   | 7.906-077   | Water Inlet Cover                  | 1   |
| 9    | 7.906-001.6  | Copper Connecting Rod         | 3   | 31   | 7.906-011.4  | Crankcase                 | 1   | 52   | 7.400-011   | Plug                               | 1   |
| 10   | 7.301-017    | Plunger Rod Screw             | 6   | 32   | 7.906-079    | Crankcase Copper Sleeve   | 3   | 53   | 7.906-050   | High Pressure Valve Retaining Ring | 3   |
| 11   | 7.906-033.4  | Plunger Rod Pin               | 3   | 33   | 7.906-051.4  | Crankcase Oil Seal        | 3   | 54   | 7.906-049.4 | High Pressure Valve Seal           | 3   |
| 12   | 7.906-002.6  | Plunger Rod                   | 3   | 34   | 7.906-049.9  | Guide Seat Seal Ring      | 3   | 55   | 7.906-086   | High Pressure Valve                | 3   |
| 13   | 7.906-129    | Water Seal Washer             | 3   | 35   | 7.906-082    | Guide Seat                | 3   | 56   | 7.906-049.4 | Copper Seat Sealing Ring           | 3   |
| 14   | 7.906-003.13 | Ceramic Plunger               | 3   | 36   | 7.906-036.6  | Low Pressure Water Seal   | 3   | 57   | 7.906-050   | Copper Seat Retaining Ring         | 3   |
| 15   | 7.906-049.3  | Ceramic Plunger Seal          | 3   | 37   | 7.906-081    | Copper Pressure Ring      | 3   | 58   | 7.906-067   | Valve Copper Seat                  | 3   |
| 16   | 7.906-043.2  | Oil Sight Glass Circlip       | 1   | 38   | 7.906-036.5  | High Pressure Water Seal  | 3   | 59   | 7.906-078   | Stainless Steel Pump Head          | 1   |
| 17   | 7.906-075    | Ceramic Plunger Screw         | 3   | 39   | 7.400-001.2  | Plug                      | 1   | 60   | 7.906-083   | High Pressure Cover Plate          | 1   |
| 18   | 7.301-016    | Hanging Ring                  | 1   | 40   | 7.400-001.1  | Plug                      | 1   | 61   | 7.400-011   | Plug                               | 1   |
| 19   | 7.301-023    | End Cap Screws                | 8   | 41   | 7.906-080    | Inlet Valve Support Seat  | 3   | 62   | 7.400-011   | Plug                               | 1   |
| 20   | 7.906-145    | End Cover Screws And Gaskets  | 8   | 42   | 7.906-087    | Low-Pressure Valve        | 3   | 63   | 7.906-145   | Double-Sided Toothed Washer        | 8   |
| 21   | 7.906-011.4  | Side Cover                    | 1   | 43   | 7.906-049.4  | Inlet Valve Seal Ring     | 3   | 64   | 7.301-023   | Screw                              | 8   |
| 22   | 7.906-048    | Bearing Adjustment Shim       | 1   |      |              |                           |     |      |             |                                    |     |

## REPAIR KITS

| Water Seal Kit |                         |                          |
|----------------|-------------------------|--------------------------|
| Index          | 36                      | 38                       |
| Part Number    | 7.906-036.6             | 7.906-036.5              |
| Name           | Low Pressure Water Seal | High Pressure Water Seal |
| Quantity       | 3                       | 3                        |

| Oil Seal Kit |                   |                    |
|--------------|-------------------|--------------------|
| Index        | 29                | 33                 |
| Part Number  | 7.906-051.3       | 7.906-051.4        |
| Name         | Rotating Oil Seal | Crankcase Oil Seal |
| Quantity     | 1                 | 3                  |

| Valve Kit   |                    |                       |                            |                                    |                          |                     |
|-------------|--------------------|-----------------------|----------------------------|------------------------------------|--------------------------|---------------------|
| Index       | 42                 | 43                    | 44                         | 53                                 | 54                       | 55                  |
| Part Number | 7.906-087          | 7.906-049.4           | 7.906-050                  | 7.906-050                          | 7.906-049.4              | 7.906-086           |
| Name        | Low Pressure Valve | Inlet Valve Seal Ring | Inlet Valve Retaining Ring | High Pressure Valve Retaining Ring | High Pressure Valve Seal | High Pressure Valve |
| Quantity    | 3                  | 3                     | 3                          | 3                                  | 3                        | 3                   |

| Plunger Kit |                 |
|-------------|-----------------|
| Index       | 14              |
| Part Number | 7.906-003.13    |
| Name        | Ceramic Plunger |
| Quantity    | 3               |