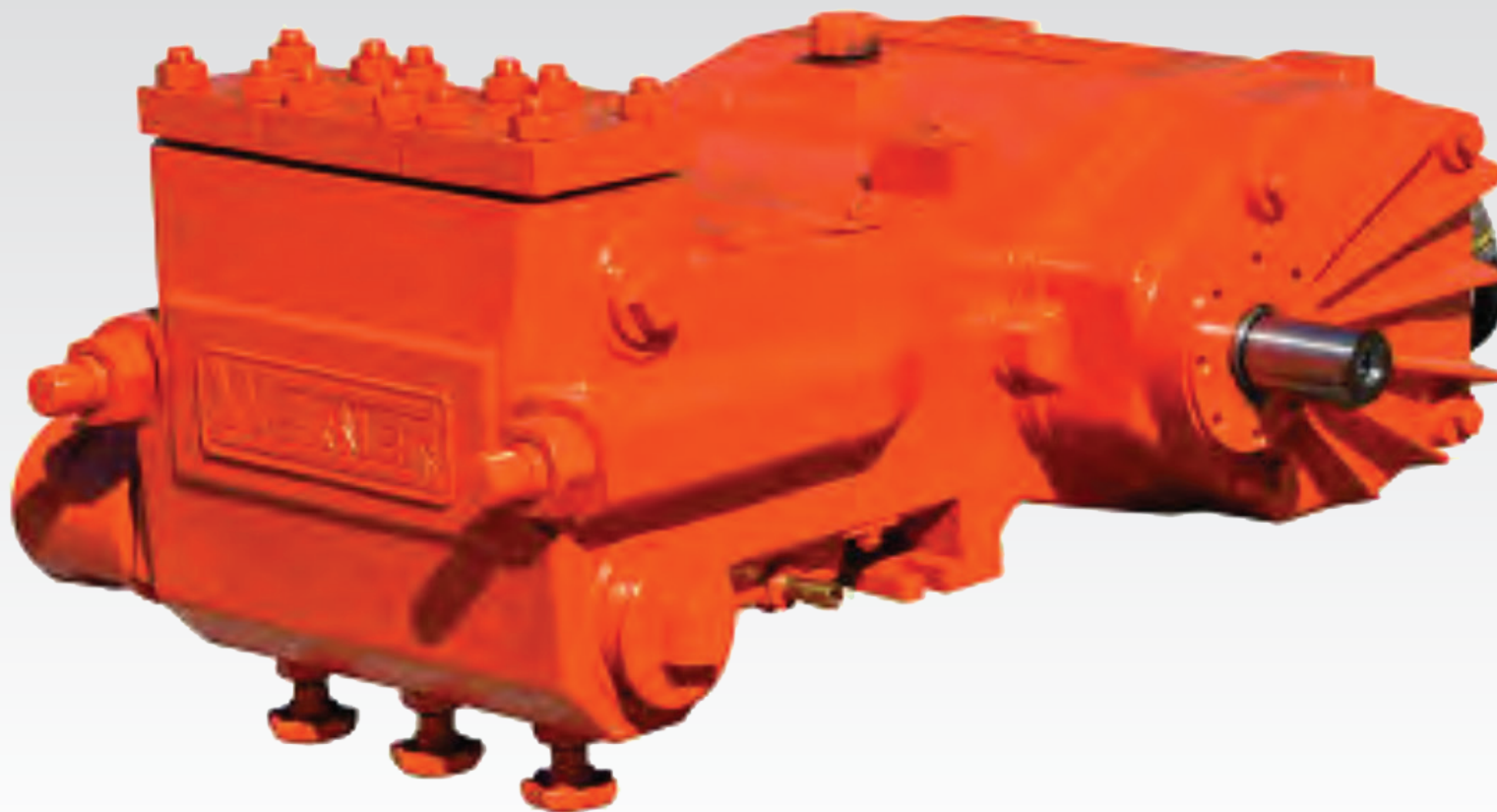


# WERNER



## WERNER KD 716





# WERNER KD 716

## High-Pressure Triplex Plunger Pump — 110 kW

The product image on Page 1 showcases the Werner KD 716, a heavy-duty high-pressure plunger pump built for demanding industrial applications. Its robust cast housing, extended liquid end and precision-machined power-end components reflect the engineering strength synonymous with Werner Pumps.

### High-Pressure Triplex Plunger Pump 110 kW

- The Werner KD 716 series is a reciprocating triplex plunger pump, engineered for high-performance duty cycles in industrial and service-sector environments. Its design emphasises:
  - Minimum energy consumption
  - Exceptional mechanical efficiency
  - Low operational wear
  - Reliable continuous-duty performance
- Ideal for handling a wide range of fluids, including:
  - Thin, low-viscosity liquids
  - Pasty or abrasive media
  - Aggressive, neutral or chemically reactive substances
  - Hot water, recycled water, or toxic fluid streams
- The KD 716 is available in multiple configurations, each with tailored gearing and liquid-end structures:
  - KD 716 G Version A1: ≈ 325 kg
  - KD 716 G Version A2: ≈ 350 kg
  - KD 716 GK Version A3: ≈ 425 kg
  - KD 716 G Version B: ≈ 415 kg
  - KD 716 G Version C: ≈ 415 kg
  - KD 716 GK Version D: ≈ 410 kg

### Power ends and design

- Special crosshead sealing for extended life
- Power-end cooling where required by duty cycle
- Left- or right-hand drive compatibility
- Pressure lubrication system (dependent on version)

- High admissible radial load (available on request)
- Direction of rotation fully selectable
- Speed limitations vary with pressure stage by design
- Liquid End & Functional Components
  - Material and design tailored to liquid properties and operating conditions
  - Customisable configurations for aggressive or abrasive fluids
  - Full engineering specifications and dimensional data available on request

### Drive

- KD 716: Standard bareshaft pump (no integral gear)
- KD 716 G: Equipped with integrated gearbox
- KD 716 GS: Gearbox rotated 180° for specialised installations
- KD 716 H: Hydraulic drive mating flange (G and GS only)
- Optional: Crankshaft overload protection
- Suction and discharge ports are available on either side, simplifying installation and pipe routing.

### Liquid ends

- Version A1 / A2
  - Integral stuffing boxes
  - Suitable for clear, recycled and hot water duty
- Version C1
  - Stainless steel construction
  - Single stuffing box design
  - Optional suction valve release system for wear-free changeover
- All Versions
  - Compatible with high-duty industrial operations
  - Engineered for high structural stability and consistent pressure output



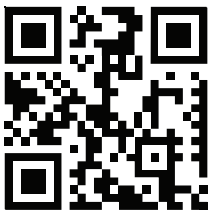
## Technical Data

| Motor Speed         |           |         | min <sup>-1</sup> | 1000               |           |           | 1200        |           |           | 1500                     |           |            | 1800      |            | 2100       | 2200       |
|---------------------|-----------|---------|-------------------|--------------------|-----------|-----------|-------------|-----------|-----------|--------------------------|-----------|------------|-----------|------------|------------|------------|
| Gear Ratio          |           |         | i gear            | 3.90               | 3.32      | 2.62      | 3.90        | 3.32      | 2.62      | 3.90                     | 3.32      | 2.62       | 3.90      | 3.32       | 3.90       | 3.90       |
| Pump Speed at Shaft |           |         | min <sup>-1</sup> | 257                | 301       | 382       | 308         | 362       | 459       | 385                      | 452       | 574        | 462       | 542        | 539        | 565        |
| Vers.               | Pres. Bar | Plunger |                   | Effective capacity |           |           | l/min (±2%) |           |           | Power req. at pump shaft |           |            | kW (+3%)  |            |            |            |
| A1                  | 140       | 65      | l/min<br>kW       | 176<br>47          | 206<br>55 | 261<br>69 | 211<br>56   | 247<br>65 | 313<br>83 | 263<br>70                | 309<br>82 | 391<br>104 | 316<br>84 | 370<br>98  | 369<br>98  | 387<br>103 |
|                     | 170       | 60      | l/min<br>kW       | 150<br>48          | 175<br>56 | 222<br>71 | 179<br>57   | 210<br>67 | 267<br>85 | 224<br>71                | 263<br>84 | 333<br>106 | 269<br>86 | 315<br>100 | 314<br>100 | 329<br>105 |
|                     | 200       | 55      | l/min<br>kW       | 123<br>46          | 144<br>54 | 183<br>68 | 148<br>55   | 173<br>65 | 219<br>82 | 185<br>69                | 216<br>81 | 274<br>103 | 222<br>83 | 260<br>97  | 259<br>97  | 271<br>102 |
| A2                  | 270       | 45      | l/min<br>kW       | 81<br>41           | 95<br>48  | 120<br>61 | 97<br>49    | 113<br>57 | 144<br>73 | 121<br>61                | 142<br>72 | 180<br>91  | 145<br>73 | 170<br>86  | 169<br>86  | 177<br>90  |
|                     | 340       | 40      | l/min<br>kW       | 62<br>40           | 73<br>47  | 93<br>59  | 75<br>48    | 88<br>56  | 111<br>71 | 94<br>60                 | 110<br>70 | 139<br>88  | 112<br>72 | 132<br>84  | 131<br>83  | 137<br>87  |
|                     | 530       | 32      | l/min<br>kW       | 39<br>37           | 46<br>44  | 58<br>55  | 47<br>45    | 55<br>52  | 69<br>67  | 58<br>56                 | 68<br>66  | 87<br>83   | 70<br>76  | 82<br>79   | 81<br>78   | 85<br>82   |
| A3                  | 170       | 60      | l/min<br>kW       | 150<br>46          | 176<br>55 | 223<br>69 | 180<br>56   | 211<br>65 | 268<br>83 | 225<br>70                | 264<br>82 | 335<br>104 | 270<br>84 | 317<br>98  | 315<br>98  | 330<br>102 |
|                     | 200       | 55      | l/min<br>kW       | 125<br>46          | 147<br>54 | 186<br>68 | 150<br>55   | 176<br>64 | 223<br>82 | 188<br>68                | 220<br>80 | 279<br>102 | 225<br>82 | 264<br>96  | 263<br>96  | 275<br>100 |
|                     | 250       | 50      | l/min<br>kW       | 104<br>47          | 120<br>55 | 152<br>69 | 123<br>56   | 144<br>66 | 183<br>83 | 153<br>70                | 180<br>82 | 228<br>104 | 184<br>84 | 216<br>98  | 215<br>98  | 225<br>102 |
|                     | 300       | 45      | l/min<br>kW       | 81<br>44           | 95<br>52  | 121<br>66 | 97<br>53    | 114<br>62 | 145<br>79 | 122<br>66                | 143<br>78 | 199<br>99  | 146<br>80 | 171<br>94  | 170<br>93  | 178<br>98  |
|                     | 380       | 40      | l/min<br>kW       | 62<br>43           | 73<br>50  | 92<br>64  | 75<br>51    | 87<br>60  | 111<br>77 | 93<br>64                 | 109<br>76 | 139<br>96  | 112<br>77 | 131<br>91  | 130<br>90  | 137<br>94  |
|                     | 400       | 35      | l/min<br>kW       | 46<br>33           | 54<br>39  | 68<br>50  | 55<br>40    | 65<br>47  | 82<br>60  | 69<br>50                 | 81<br>59  | 102<br>74  | 83<br>60  | 97<br>70   | 96<br>70   | 101<br>73  |
|                     | 400       | 32      | l/min<br>kW       | 37.5<br>27         | 44<br>32  | 56<br>40  | 45<br>33    | 53<br>38  | 67<br>48  | 56<br>41                 | 66<br>48  | 83<br>61   | 67<br>49  | 79<br>57   | 78<br>57   | 82<br>60   |
|                     | 400       | 28      | l/min<br>kW       | 27<br>20           | 32<br>23  | 40<br>29  | 33<br>24    | 38<br>28  | 48<br>35  | 41<br>30                 | 48<br>35  | 61<br>44   | 49<br>35  | 57<br>42   | 57<br>41   | 60<br>43   |

|   |      |    |             |            |            |            |            |            |            |            |            |            |            |            |            |            |
|---|------|----|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| B | 500  | 35 | l/min<br>kW | 49.5<br>45 | 58<br>53   | 74<br>67   | 59<br>54   | 70<br>63   | 89<br>80   | 74<br>67   | 87<br>79   | 111<br>100 | 89<br>81   | 105<br>95  | 104<br>94  | 109<br>99  |
|   | 600  | 32 | l/min<br>kW | 41<br>44   | 48<br>52   | 61<br>66   | 49<br>53   | 57<br>62   | 73<br>79   | 61<br>66   | 72<br>78   | 91<br>99   | 73<br>80   | 86<br>94   | 86<br>93   | 90<br>97   |
|   | 780  | 28 | l/min<br>kW | 30<br>42   | 35.5<br>50 | 45<br>63   | 36.5<br>51 | 42.5<br>60 | 54<br>76   | 45.5<br>64 | 53<br>75   | 68<br>95   | 54<br>76   | 64<br>90   | 63<br>89   | 66<br>93   |
|   | 850  | 25 | l/min<br>kW | 23.5<br>36 | 27.5<br>42 | 35<br>53   | 28<br>43   | 33<br>50   | 42<br>64   | 35<br>54   | 41.5<br>63 | 53<br>80   | 42<br>64   | 49.5<br>76 | 49<br>75   | 52<br>79   |
| C | 780  | 28 | l/min<br>kW | 31.5<br>44 | 36.5<br>52 | 46.5<br>65 | 37.5<br>53 | 44<br>62   | 56<br>79   | 47<br>66   | 55<br>77   | 70<br>98   | 57<br>79   | 66<br>93   | 66<br>92   | 69<br>97   |
|   | 980  | 25 | l/min<br>kW | 24.5<br>43 | 28.5<br>50 | 36.5<br>64 | 29.5<br>51 | 34.5<br>60 | 43.5<br>77 | 36.5<br>64 | 43<br>76   | 54<br>93   | 44<br>77   | 52<br>91   | 51<br>90   | 54<br>94   |
|   | 1200 | 22 | l/min<br>kW | 18.4<br>39 | 21.5<br>46 | 27.5<br>59 | 22<br>47   | 26<br>56   | 33<br>70   | 27.5<br>59 | 32.5<br>69 | 41<br>88   | 33<br>71   | 39<br>83   | 38.5<br>83 | 40.5<br>87 |
|   | 1500 | 19 | l/min<br>kW | 14<br>37   | 16.5<br>44 | 21<br>56   | 16.8<br>45 | 19.8<br>53 | 25<br>67   | 21<br>56   | 24.5<br>66 |            | 25<br>67   |            |            |            |
| D | 2000 | 17 | l/min<br>kW | 10.6<br>37 | 12.5<br>44 | 15.9<br>55 | 12.8<br>45 | 15<br>52   | 19<br>67   | 16<br>56   | 18.7<br>66 | 24<br>83   | 19.2<br>67 | 22.5<br>79 | 22.5<br>78 | 23.5<br>82 |
|   | 2500 | 15 | l/min<br>kW | 8.3<br>36  | 9.8<br>42  | 12.4<br>54 | 10<br>43   | 11.7<br>51 | 14.9<br>64 | 12.5<br>54 | 14.7<br>63 |            | 15<br>65   |            |            |            |
|   | 2800 | 15 | l/min<br>kW | 8.2<br>39  | 9.6<br>46  | 12.2<br>59 | 9.8<br>47  | 11.5<br>55 | 14.6<br>70 | 12.3<br>59 | 14.4<br>69 |            | 14.7<br>71 |            |            |            |

## Technical Specifications

- Admissible radial load of drive shaft upon request
- Optional crankshaft overload protection
- Direction of rotation selectable
- Capacity and recommended motor ratings as mentioned apply water the average volumetric and mechanical efficiency are taken into consideration,
- Liquid end design depends on liquid handled and operation conditions
- Other operating data and detailed dimensions are available on request
- Speed imitation at different pressure stages is due to design
- The required suction pressure depends on application and pump design
- Suction and discharge connection are available on either side



## Get in touch

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Werner Pumps for rugged, reliable,  
home-grown solutions.  
For sales, service or guidance —  
we're always here to help.



### Managing Director:



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Managing Director

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