



Deep well vertical pumps

1. Fields of Application

BEV are vertical multistage centrifugal pumps designed for deep well, ditches and tanks to pump clean liquids without any abrasives or solid particles.

Such deep well line shaft turbine pumps are often used for irrigation, mainly in areas where no electric power is available (thus the engine driven option) and the water table is at fairly low level.

Other typical applications would be:

- Water supply in urban and rural areas
- Fire fighting sets
- Industry
- Water raising for reservoirs and channels

Check application sketches in paragraph 15

2. Operating Data

| | | 50 Hz | 60 Hz |
|--------------------------|-------------------|----------|----------|
| Capacity, max. | m ³ /h | 2200 | 2700 |
| Head, max. | m | 350 | 350 |
| Operating temp., max. | °C | +50 | +50 |
| Operating temp., min. | °C | +5 | +5 |
| Operating pressure, max. | bar | 40 | 40 |
| Operating speed, max. | rpm | 3000 (1) | 3600 (1) |
| Max. total pump length | m | 100 (2) | 100 (2) |
| Ø min. of well | " | 6 to 22 | 6 to 22 |

(1) Max. speed depending on pump size

(2) Length for speed ≤ 1800 rpm

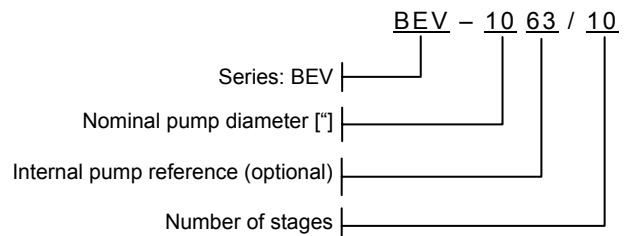
For any specific application beyond these limits, please consult KSB ITUR. All data given in this document are for fully standard construction

3. Design

Radially-split vertical multistage pump casing. Closed impeller with diffuser. Strainer in suction.

Manufactured in nominal diameters of 6"-8"-10"-12"-14"-16"-20"-22".

4. Designation



5. Materials

| Denomination | Ref. | Material variant | | | |
|------------------------------|---------|--------------------|-----------------------------------------|-----------------------------|--------------------|
| | | 00 (1) | 03 (2) | 09 (3) | 21 |
| Suction, discharge casing | 106,107 | JL 1040 | RG-5 | CF3M | JL 1040 |
| Stage casing, pump bowl | 108,11 | JL 1040 | RG-5 | CF3M | JL 1040 |
| Pump shaft | 211 | AISI-431B | AISI-316L, AISI329 or NITRONIC 50HS (4) | | AISI-431B |
| Intermediate drive shaft | 212 | F-114 or AISI-431B | AISI-316L, AISI329 or NITRONIC 50HS (4) | | F-114 or AISI-431B |
| Drive shaft | 213 | AISI-431B | AISI-316L | AISI-316L | AISI-431B |
| Discharge head | 115 | JL 1040 (5) | RG-5 | CF3M or AISI-316 + F-111(6) | JL 1040 (5) |
| Suction strainer | 143 | AISI-316L | | | |
| Impeller | 230 | JL 1040 | SN-10 (7) | CF3M | SN-10 |
| Pump friction bearing bush | 545 | RG-7 (8) | | | |
| Column friction bearing bush | 545 | F-111 + CR (9) | AISI-316L + CR (9) | | F-111 + CR (9) |
| Intermediate piping | 712 | F-111 | AISI-316L | AISI-316L | F-111 |

(1) Variant not available for pump size 6685A, 6685B

(2) Variant not available for pump sizes 14D, 16D, 20B, 22B

(3) Only for pump size 14D, 16D, 20B, 22B

(4) Material depending on power to be transmitted and pump size

(5) Except for welded discharge head size 12/20 and 16/24. In such case, F-111

(6) CF3M for casted discharge head size 10/20. AISI-316L + F111 for welded discharge head sizes 12/20 and 16/24

(7) RG5 for pump size 6685A, 6685B

(8) Except friction bearing bushes located in the discharge casing for pump size 22B. In such case, AISI-316 + GRAF

(9) CR= Neopren or cloropren (if pumped fluid is incompatible, ask KSB ITUR for option with bushes in bronze)

For 50, 60 and 63 mm Ø intermediate shafts, rubber instead of CR and besides AISI-316 in case of stainless variant. For these same shaft dimensions and 16" column size, bush material AISI-316 + GRAF.

Key to Materials

| Description | Code | Other equivalents |
|---------------------------------------|---------------|---------------------------------|
| Grey cast iron | JL1040 | EN 1561: GJL-250 (Former GG-25) |
| Carbon steel | F-111 | C-15 |
| Tempering steel | F-114 | C45 |
| Hot rolled chrome nickel molybdenum | AISI-316L | 1.4435 |
| Casted chrome nickel molybdenum steel | CF3M | 1.4404 |
| Stainless steel | AISI-329 | A276-S31803 |
| Chrome nickel steel | AISI-431B | 1.4057 |
| High strength stainless steel | NITRONIC 50HS | A276 XM-19, 1.3964 |
| Bronze | RG-5 | CuSn5ZnPb5-C |
| Bronze | SN-10 | CuSn10-C-GS |

6. Components

6.1 Shaft Seal

Packing

6.2 Drive

IEC frame electric motor IM V1 (3011) or internal combustion engine

6.3 Bearings / Lubrication

Pump shaft and the intermediate transmission shafts rotate on friction bearing bushes lubricated by the pumped liquid.

Drive and gear head shafts (in case of internal combustion engine) rotate on bearings lubricated with oil or grease, depending on coupling system size.

6.4 Coupling

Flexible coupling with electrical motor and cardan joints in case of internal combustion engine.

Coupling Guard: Transparent plastic protections are supplied as standard. Metallic protections can be supplied as option.

6.5 Base Plate

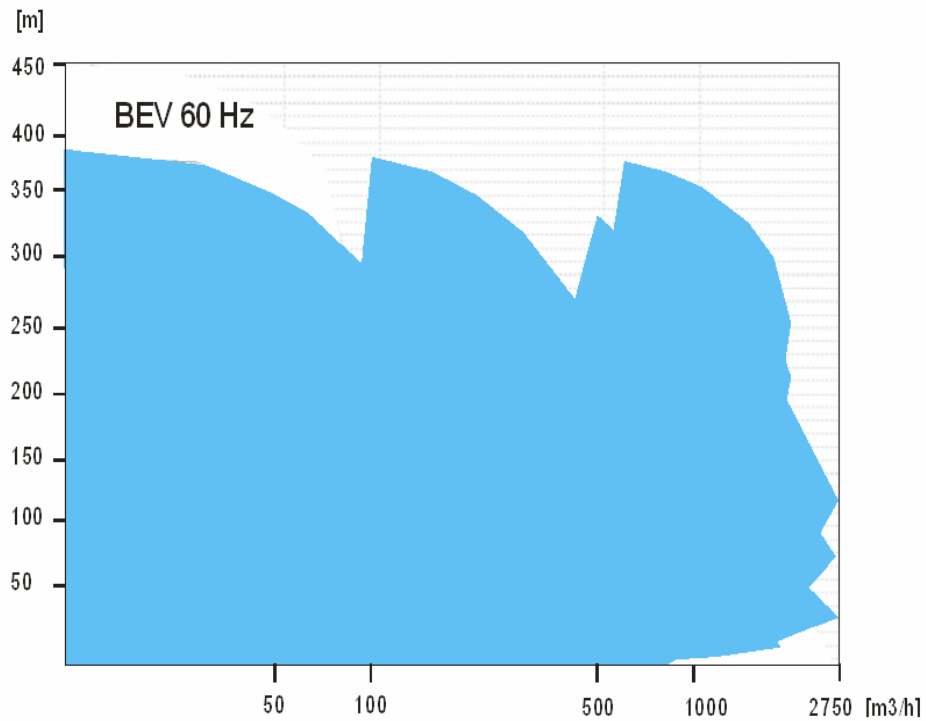
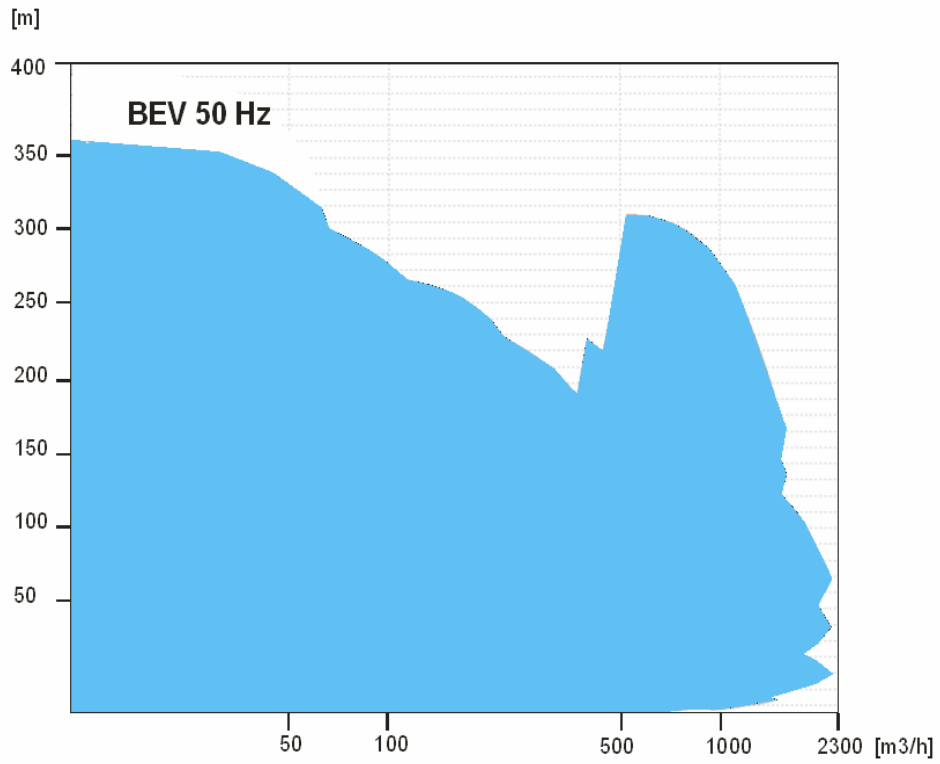
Standard base plate is rectangular shaped, and non sealing design.

7. Certification - ATEX

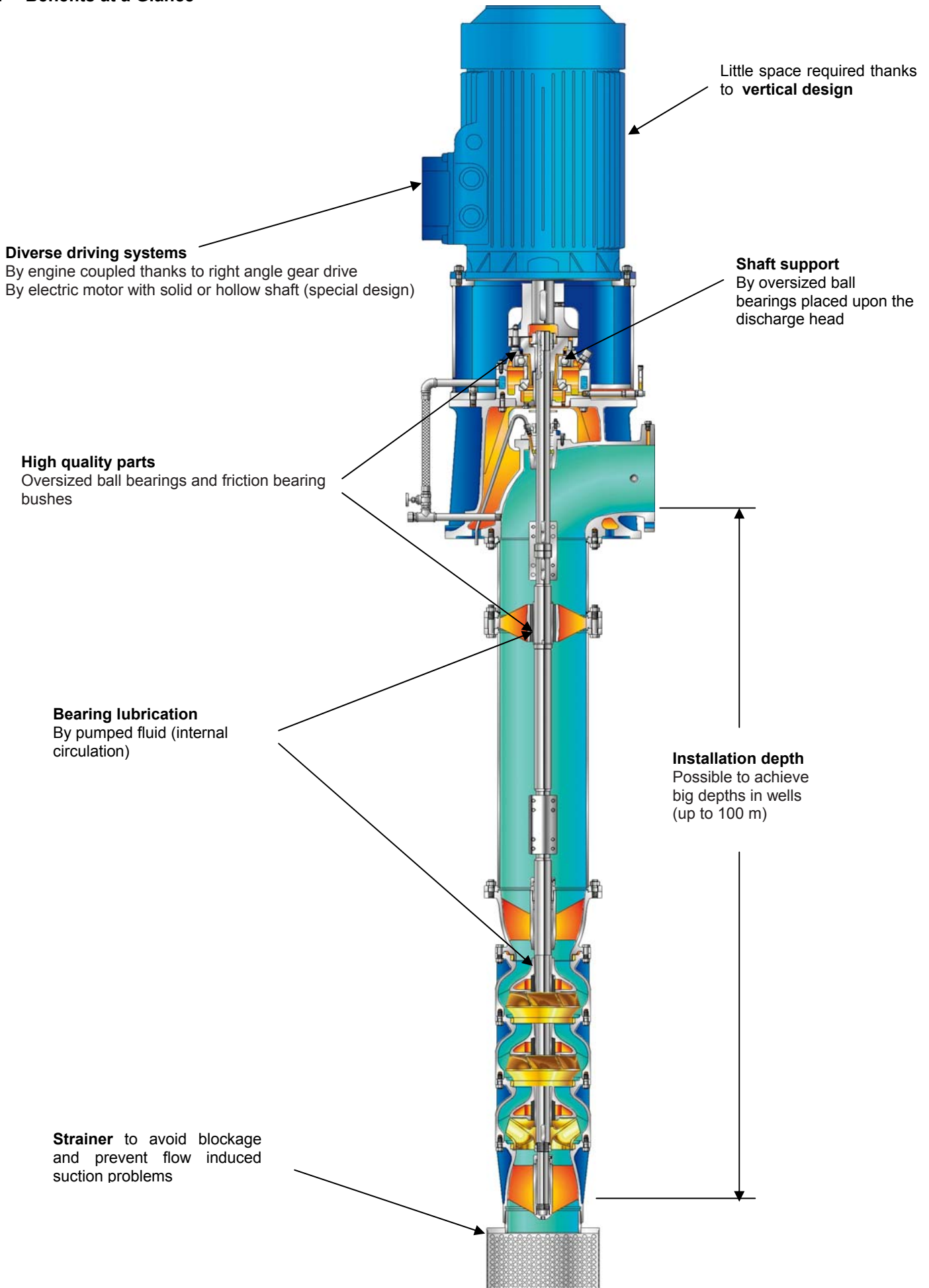
Certified quality management according to ISO-9001.

This series can be supplied as ATEX (94/9/EC) compliant.

8. Range Charts



9. Benefits at a Glance



10. Technical data

| | | PUMP SIZE | | | | | | | | | | |
|------------------------------|-------------------|------------------------|--------|-------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------|----------|-------|------|
| Units | | 6685 A | 6685 B | 6356 | 6456 | 8050 | 8056 | 8300 | 8400 | 1063 | 1066 | 1226 |
| General | | | | | | | | | | | | |
| Impeller outlet width | mm | 4,5 | 6 | 16 | 21 | 19 | 12 | 29 | 30 | 28 | | |
| Impeller eye section | cm ² | 14,3 | | 41,9 | 76,1 | | 30,0 | 117,4 | | 110,3 | | |
| Max. & min. Impeller Ø | mm | Check individual curve | | | | | | | | | | |
| Axial clearance | mm | 7 | | 9,5 | 14 | | 11 | 14 | | | | |
| Maximum number of stages (1) | | 12 | | 32 | 29 | | 32 | 24 | | 15 | | |
| Thrust constant | N/m | 54 | | 53 | 56 | 59 | 44 | | 122 | | 87 | |
| Moments of inertia WD2 (2) | kg*m ² | 0,019 | 0,032 | 0,009 | 0,035 | 0,036 | 0,016 | | 0,100 | 0,104 | 0,260 | |
| Min. submergence | mm | 365 | | 485 | 475 | | | 650 | | 752 | | |
| Maximum speed | rpm | 3600/3000 | | | | | | | 1800/1500 | | | |
| Pump shaft | | | | | | | | | | | | |
| Pump shaft Ø | | 7/8" | | 1" | 1 3/16" | | 1" | 1 1/2" | | 1 11/16" | | |
| P/n value (1) | kW/rpm | 0,042 | | 0,066 | 0,110 | | 0,066 | 0,226 | | 0,332 | | |
| Pump bearing | | | | | | | | | | | | |
| Friction bearing bush | | 00/016/03 00/022/02 | | 00/025/04 01/025/01 04/025/01 | 00/030/07(3) 00/030/12 01/030/01 02/030/01 | 00/025/08(3) 00/025/10 01/025/02 04/025/02 | 00/038/01(3) 00/038/03 01/038/01 02/038/01 | 00/043/01(3) 00/043/03 01/043/01 02/043/01 | | | | |
| Bearing lubrication | | Product lubricated | | | | | | | | | | |

(1) For AISI-431 B shaft material. Consult KSB ITUR for P/n value of other shaft materials.

(2) For pump with 1 stage

(3) Pumps with just 1 stage are not provided with this reference

| | | PUMP SIZE | | | | | | | | | | |
|------------------------------|-------------------|-----------------------------------------------------|-----------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------|-------|------------------------------------|-------|-------|--|
| Units | | 1280 | 1286 | 1486 | 14D | | 16D | | 20B | | 22B | |
| General | | | | | | | | | | | | |
| Impeller outlet width | mm | 45 | | | 49 | 55 | | 48 | | 52 | | |
| Impeller eye section | cm ² | 207 | 207,7 | 266 | 261,3 | | 327,4 | | 460 | | 679,3 | |
| Max. & min. Impeller Ø | mm | Check individual curve | | | | | | | | | | |
| Axial clearance | mm | 12,7 | | 23 | 5 | | 8 | 15 | | | | |
| Maximum number of stages (1) | | 11 | | 10 | 10 | | 8 | 6 | | 3 | | |
| Thrust constant | N/m | 227 | 197 | 233 | 26 | | 34 | | 41 | | 52 | |
| Moments of inertia WD2 (2) | kg*m ² | 0,364 | 0,368 | 0,552 | 0,370 | | 0,680 | | 1,800 | | 4,800 | |
| Min. submergence | mm | 1040 | | 1170 | 900 | | 950 | | 1160 | | 1000 | |
| Maximum speed | rpm | 1800/1500 (3) | | | | | | | | | | |
| Pump shaft (Ref.211) | | | | | | | | | | | | |
| Pump shaft Ø | | 1 11/16" | | 1 15/16" | 50 | 60 | 50 | 50 | 60 | 63 | 50 | |
| P/n Drive rating (1) | kW/rpm | 0,332 | | 0,516 | 0,380 | 0,656 | 0,380 | 0,380 | 0,656 | 0,766 | 0,380 | |
| Pump bearing | | | | | | | | | | | | |
| Friction bearing bush | | 00/049/01(4) 00/049/02 01/049/01 02/049/01 | 00/055/01(4) 00/055/02 01/055/01 02/055/02 | 00/040/03 00/060/03 00/060/06 | 00/045/03 00/060/03 00/070/01 | 00/052/01 00/060/02 00/088/01 | | | 00/052/02 00/100/01 T-405044 | | | |
| Bearing lubrication | | Product lubricated | | | | | | | | | | |

(1) For AISI-431 B shaft material. Consult KSB ITUR for P/n value of other shaft materials.

(2) For pump with 1 stage

(3) 1500 rpm for pump with coupling system AE-400

(4) Pumps with just 1 stage are not provided with this reference

| INTERMEDIATE DRIVE SHAFT (column shaft) Ref 212 | | |
|--------------------------------------------------------|--------------------|-------------------|
| Shaft Ø | Max. P/n value (1) | Max. axial thrust |
| Threaded ["] | [kW/rpm] | [kg] |
| 7/8" | 0,0162 | 1500 |
| 1" | 0,0254 | 1800 |
| 1 1/4" | 0,0512 | 2200 |
| 1 1/2" | 0,0868 | 4500 |
| 1 11/16" | 0,1275 | 5200 |
| 1 15/16 " | 0,1985 | 6800 |
| Keyed shaft (2) [mm] | | |
| 50 | 0,1607 | 10000 |
| 60 | 0,2276 | 14000 |
| 63 | 0,3242 | 15600 |

(1) For F-114 shaft material. Consult KSB ITUR for P/n values for other shaft materials.

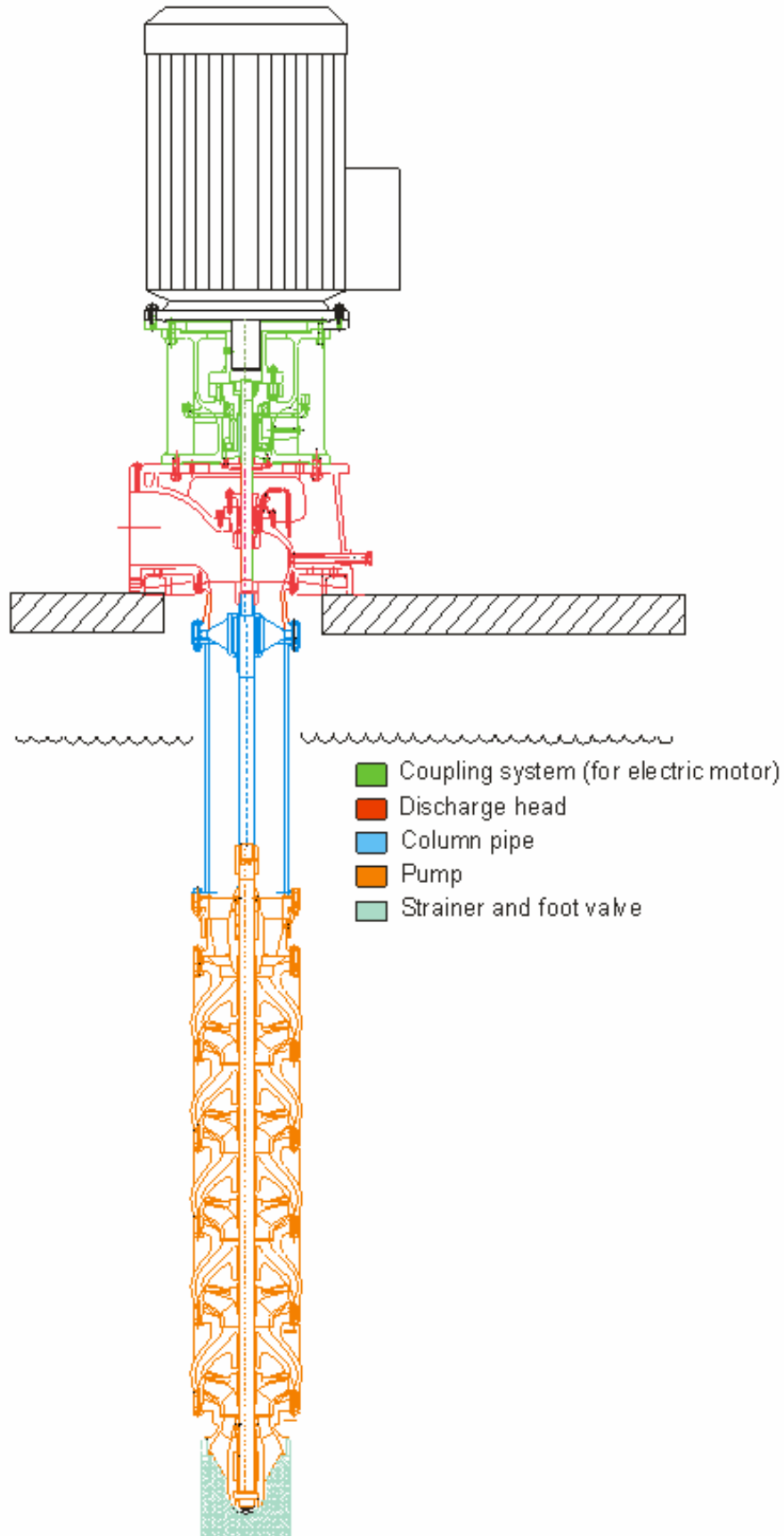
(2) For keyed shafts, same Ø as pump shaft should be used

| | | COUPLING SYSTEM FOR ELECTRIC MOTOR DRIVEN PUMP | | | | | | | |
|-------------|---------------------|-------------------------------------------------------|----------------------|-------------------------|-------------------------|------------------------|--------------------|--------------------|-----------------------|
| | | Units | 10E-10 L/2 | 10E-40 H/2 | 16½ E-125 H/2 | 20E-300 H/4 | AE-370 | AE-400 | |
| 3450 rpm | Max. power | kW | 18 | 55 | 220 | NA | NA | NA | |
| | Max. axial thrust | kg | 436 | 920 | 1300 | NA | NA | NA | |
| 2900 rpm | Max. power | kW | 15 | 55 | 200 | NA | NA | NA | |
| | Max. axial thrust | kg | 450 | 1000 | 1550 | NA | NA | NA | |
| 1750 rpm | Max. power | kW | 8,8 | 53 | 110 | 300 | 228 | NA | |
| | Max. axial thrust | kg | 480 | 1280 | 1900 | 4000 | 3400 | NA | |
| 1450 rpm | Max. power | kW | 7,5 | 45 | 92 | 250 | 200 | 450 | |
| | Max. axial thrust | kg | 500 | 1280 | 2000 | 4200 | 3600 | 5100 | |
| Bearings | | | | | | | | | |
| | Shaft Ø (1) | | 7/8" | 1" | 1 1/4" | 1 1/2" | 1 15/16" | 60 | 70 |
| | Bearing | | 7211 + 6013 RS C3 | 7311 + 6213 RS C3 | 7214 + 6214 RS C3 | 7316 + 6219 C3 | 29320 + 6222 C3 | 31314 + 6218 C3 | 2 x 7322 + 6226 C3 |
| Lubrication | Type | | Oil bath | | | | Grease | | |
| | Quantity | cm ³ | 200 | 250 | 300 | 500 | 52 | 166 | |
| | Quality | | ISO VG 46 | | | NA | NA | | |
| | 2000 < n > 3000 rpm | | ISO VG 68 | | ISO VG 46 | ISO VG 46 | K2K | | |
| | 1500 < n > 2000 rpm | | ISO VG 100 | | ISO VG 68 | | | | |
| | 1500 < n rpm | | ISO VG 100 | | ISO VG 68 | | | | |
| | Cooling jacket | | No | | | Yes (by pumped medium) | | | |

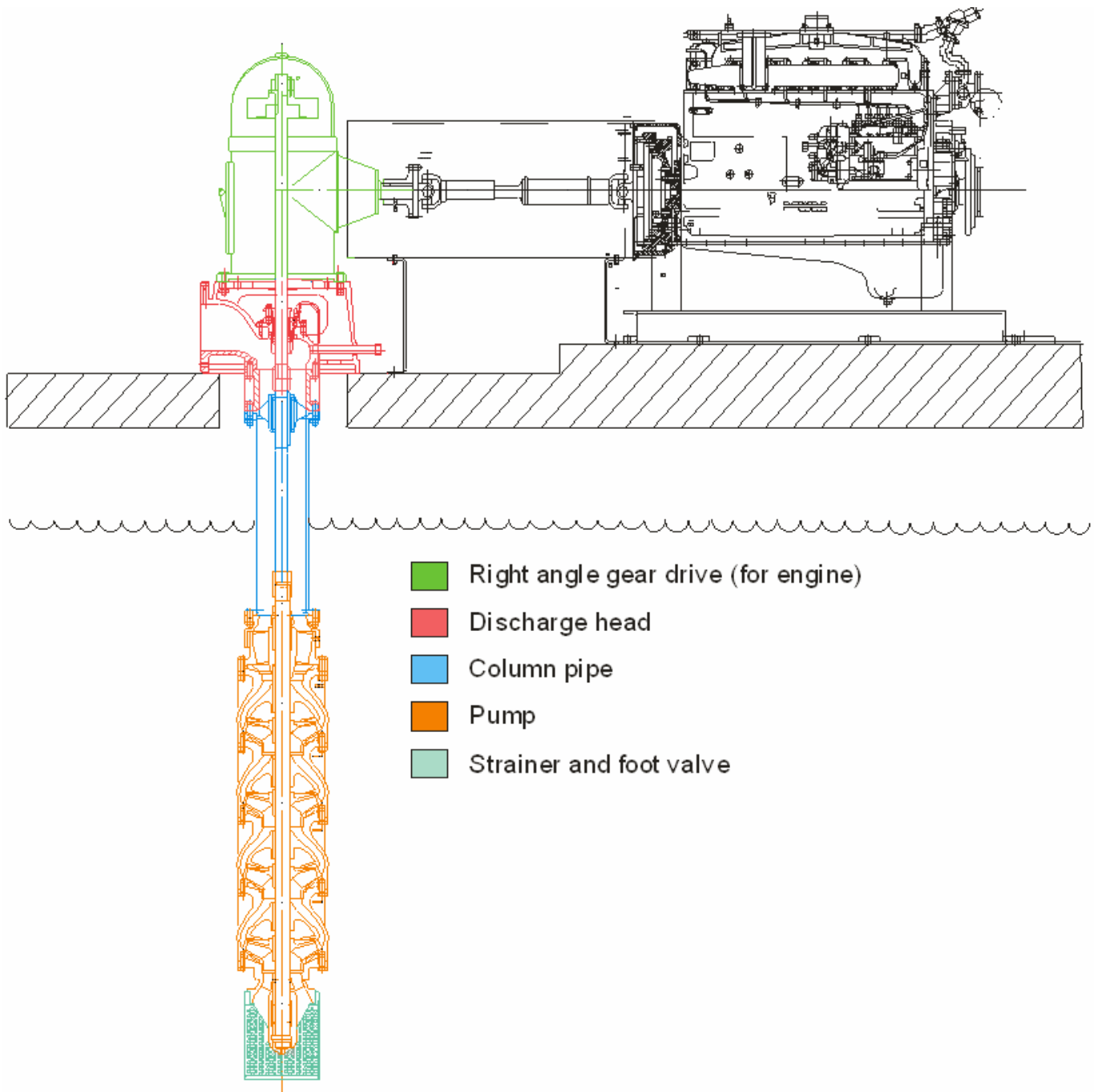
(1) Common with discharge head's shaft. Also known as drive shaft (Ref. 213)

| RIGHT ANGLE GEAR DRIVE FOR ENGINE DRIVEN PUMP | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------------------|--------------------|------------|--------------------------------|------|---------|------|-----------------------------|-------|------|------|------|------|------|------|------|-------|------|------|------|------|
| GEAR HEAD SIZE | PUMP SPEED P [rpm] | MAX P [kW] | DOWNTHRUST AXIAL CAPACITY (kg) | | | | SPEED RATIO (engine : pump) | | | | | | | | | | | | | |
| | | | S TYPE | | SL TYPE | | 1:1 | 11:10 | 6:5 | 5:4 | 4:3 | 3:2 | 7:4 | 2:1 | 5:2 | 10:11 | 5:6 | 4:5 | 3:4 | 2:3 |
| | | | MIN | MAX | MIN | MAX | ENGINE SPEED [rpm] | | | | | | | | | | | | | |
| S030 | 720 | 11,6 | 429 | 1257 | 0 | 500 | 720 | | 864 | | 960 | 1080 | | | | | 600 | | 540 | 480 |
| S030 | 870 | 13,4 | 401 | 1173 | 0 | 480 | 870 | | 1044 | | 1160 | 1305 | | | | | 725 | | 653 | 579 |
| S030 | 960 | 14,3 | 388 | 1136 | 0 | 465 | 960 | | 1152 | | 1280 | 1440 | | | | | 800 | | 720 | 639 |
| S030 | 1160 | 16 | 362 | 1071 | 0 | 444 | 1160 | NA | 1392 | NA | 1547 | 1740 | NA | NA | NA | NA | 966 | NA | 870 | 773 |
| S030 | 1460 | 19 | 345 | 987 | 0 | 409 | 1460 | | 1752 | | 1947 | 2190 | | | | | 1216 | | 1095 | 972 |
| S030 | 1550 | 20,2 | 328 | 959 | 0 | 399 | 1550 | | 1860 | | 2067 | 2325 | | | | | 1291 | | 1163 | 1032 |
| S030 | 1650 | 21,1 | 321 | 940 | 0 | 392 | 1650 | | 1980 | | 2200 | 2475 | | | | | 1374 | | 1238 | 1099 |
| S030 | 1760 | 22 | 318 | 931 | 0 | 386 | 1760 | | 2112 | | 2347 | 2640 | | | | | 1466 | | 1320 | 1172 |
| S040A | 720 | 15,3 | 613 | 2452 | 0 | 750 | 720 | | 864 | | 960 | 1080 | 1260 | 1440 | 1800 | | 600 | | 540 | 480 |
| S040A | 870 | 17,6 | 572 | 2288 | 0 | 720 | 870 | | 1044 | | 1160 | 1305 | 1523 | 1740 | 2175 | | 725 | | 653 | 579 |
| S040A | 960 | 18,8 | 554 | 2216 | 0 | 710 | 960 | | 1152 | | 1280 | 1440 | 1680 | 1920 | 2400 | | 800 | | 720 | 639 |
| S040A | 1160 | 22 | 517 | 2088 | 0 | 679 | 1160 | NA | 1392 | NA | 1547 | 1740 | 2030 | 2320 | 2900 | NA | 966 | NA | 870 | 773 |
| S040A | 1460 | 26 | 479 | 1925 | 0 | 626 | 1460 | | 1752 | | 1947 | 2190 | 2555 | 2920 | 3650 | | 1216 | | 1095 | 972 |
| S040A | 1550 | 26,6 | 468 | 1870 | 0 | 610 | 1550 | | 1860 | | 2067 | 2325 | 2713 | 3100 | 3875 | | 1291 | | 1163 | 1032 |
| S040A | 1650 | 27,8 | 459 | 1834 | 0 | 605 | 1650 | | 1980 | | 2200 | 2475 | 2888 | 3300 | 4125 | | 1374 | | 1238 | 1099 |
| S040A | 1760 | 29 | 454 | 1816 | 0 | 590 | 1760 | | 2112 | | 2347 | 2640 | 3080 | 3520 | 4400 | | 1466 | | 1320 | 1172 |
| S060A | 720 | 23,3 | 767 | 3125 | 0 | 1010 | 720 | 792 | 864 | 900 | 960 | 1080 | 1260 | 1440 | 1800 | 654 | 600 | 576 | 540 | 480 |
| S060A | 870 | 26,8 | 716 | 2917 | 0 | 970 | 870 | 957 | 1044 | 1088 | 1160 | 1305 | 1523 | 1740 | 2175 | 791 | 725 | 696 | 653 | 579 |
| S060A | 960 | 29 | 676 | 2825 | 0 | 942 | 960 | 1056 | 1152 | 1200 | 1280 | 1440 | 1680 | 1920 | 2400 | 873 | 800 | 768 | 720 | 639 |
| S060A | 1160 | 33 | 646 | 2663 | 0 | 888 | 1160 | 1276 | 1392 | 1450 | 1547 | 1740 | 2030 | 2320 | 2900 | 1054 | 966 | 928 | 870 | 773 |
| S060A | 1460 | 39 | 604 | 2454 | 0 | 818 | 1460 | 1606 | 1752 | 1825 | 1947 | 2190 | 2555 | 2920 | 3650 | 1327 | 1216 | 1168 | 1095 | 972 |
| S060A | 1550 | 40,4 | 585 | 2384 | 0 | 800 | 1550 | 1705 | 1860 | 1938 | 2067 | 2325 | 2713 | 3100 | 3875 | 1409 | 1291 | 1240 | 1163 | 1032 |
| S060A | 1650 | 42,2 | 574 | 2338 | 0 | 785 | 1650 | 1815 | 1980 | 2063 | 2200 | 2475 | 2888 | 3300 | 4125 | 1500 | 1374 | 1320 | 1238 | 1099 |
| S060A | 1760 | 44 | 568 | 2315 | 0 | 772 | 1760 | 1936 | 2112 | 2200 | 2347 | 2640 | 3080 | 3520 | 4400 | 1600 | 1466 | 1408 | 1320 | 1172 |
| S100A | 720 | 39,2 | 1073 | 3800 | 0 | 1860 | 720 | 792 | 864 | 900 | 960 | 1080 | 1260 | 1440 | 1800 | 654 | 600 | 576 | 540 | 480 |
| S100A | 870 | 45,1 | 1002 | 3547 | 0 | 1800 | 870 | 957 | 1044 | 1088 | 1160 | 1305 | 1523 | 1740 | 2175 | 791 | 725 | 696 | 653 | 579 |
| S100A | 960 | 48 | 947 | 3434 | 0 | 1772 | 960 | 1056 | 1152 | 1200 | 1280 | 1440 | 1680 | 1920 | 2400 | 873 | 800 | 768 | 720 | 639 |
| S100A | 1160 | 55 | 904 | 3237 | 0 | 1671 | 1160 | 1276 | 1392 | 1450 | 1547 | 1740 | 2030 | 2320 | 2900 | 1054 | 966 | 928 | 870 | 773 |
| S100A | 1460 | 65 | 843 | 2984 | 0 | 1540 | 1460 | 1606 | 1752 | 1825 | 1947 | 2190 | 2555 | 2920 | 3650 | 1327 | 1216 | 1168 | 1095 | 972 |
| S100A | 1550 | 68 | 819 | 2899 | 0 | 1510 | 1550 | 1705 | 1860 | 1938 | 2067 | 2325 | 2713 | 3100 | 3875 | 1409 | 1291 | 1240 | 1163 | 1032 |
| S100A | 1650 | 71 | 803 | 2843 | 0 | 1480 | 1650 | 1815 | 1980 | 2063 | 2200 | 2475 | 2888 | 3300 | 4125 | 1500 | 1374 | 1320 | 1238 | 1099 |
| S100A | 1760 | 74 | 795 | 2815 | 0 | 1453 | 1760 | 1936 | 2112 | 2200 | 2347 | 2640 | 3080 | 3520 | 4400 | 1600 | 1466 | 1408 | 1320 | 1172 |
| S125A | 720 | 48,7 | 1285 | 4107 | 0 | 2400 | 720 | 792 | 864 | 900 | 960 | 1080 | | | | 654 | 600 | 576 | 540 | 480 |
| S125A | 870 | 56,1 | 1230 | 3833 | 0 | 2320 | 870 | 957 | 1044 | 1088 | 1160 | 1305 | | | | 791 | 725 | 696 | 653 | 579 |
| S125A | 960 | 60 | 1214 | 3711 | 0 | 2271 | 960 | 1056 | 1152 | 1200 | 1280 | 1440 | | | | 873 | 800 | 768 | 720 | 639 |
| S125A | 1160 | 68 | 1165 | 3498 | 0 | 2141 | 1160 | 1276 | 1392 | 1450 | 1547 | 1740 | NA | NA | NA | 1054 | 966 | 928 | 870 | 773 |
| S125A | 1460 | 81 | 1084 | 3224 | 0 | 1973 | 1460 | 1606 | 1752 | 1825 | 1947 | 2190 | | | | 1327 | 1216 | 1168 | 1095 | 972 |
| S125A | 1550 | 84,6 | 1060 | 3133 | 0 | 1940 | 1550 | 1705 | 1860 | 1938 | 2067 | 2325 | | | | 1409 | 1291 | 1240 | 1163 | 1032 |
| S125A | 1650 | 88,3 | 1035 | 3072 | 0 | 1900 | 1650 | 1815 | 1980 | 2063 | 2200 | 2475 | | | | 1500 | 1374 | 1320 | 1238 | 1099 |
| S125A | 1760 | 92 | 1022 | 3042 | 0 | 1861 | 1760 | 1936 | 2112 | 2200 | 2347 | 2640 | | | | 1600 | 1466 | 1408 | 1320 | 1172 |
| S150A | 720 | 59 | 1618 | 5026 | 0 | 3065 | 720 | 792 | 864 | | 960 | 1080 | | 1440 | 1800 | 654 | 600 | 576 | 540 | |
| S150A | 870 | 67,1 | 1530 | 4691 | 0 | 2870 | 870 | 957 | 1044 | | 1160 | 1305 | | 1740 | 2175 | 791 | 725 | 696 | 653 | |
| S150A | 960 | 72 | 1468 | 4542 | 0 | 2769 | 960 | 1056 | 1152 | | 1280 | 1440 | | 1920 | 2400 | 873 | 800 | 768 | 720 | |
| S150A | 1160 | 82 | 1401 | 4281 | 0 | 2611 | 1160 | 1276 | 1392 | NA | 1547 | 1740 | NA | 2320 | 2900 | 1054 | 966 | 928 | 870 | NA |
| S150A | 1460 | 97 | 1300 | 3946 | 0 | 2406 | 1460 | 1606 | 1752 | | 1947 | 2190 | | 2920 | 3650 | 1327 | 1216 | 1168 | 1095 | |
| S150A | 1550 | 101,2 | 1270 | 3835 | 0 | 2350 | 1550 | 1705 | 1860 | | 2067 | 2325 | | 3100 | 3875 | 1409 | 1291 | 1240 | 1163 | |
| S150A | 1650 | 105,6 | 1250 | 3760 | 0 | 2300 | 1650 | 1815 | 1980 | | 2200 | 2475 | | 3300 | 4125 | 1500 | 1374 | 1320 | 1238 | |
| S150A | 1760 | 110 | 1226 | 3723 | 0 | 2270 | 1760 | 1936 | 2112 | | 2347 | 2640 | | 3520 | 4400 | 1600 | 1466 | 1408 | 1320 | |
| S200 | 720 | 79 | 1618 | 7032 | 0 | 3065 | 720 | 792 | 864 | 900 | 960 | 1080 | 1260 | 1440 | 1800 | 654 | 600 | 576 | | 480 |
| S200 | 870 | 89,6 | 1520 | 6570 | 0 | 2870 | 870 | 957 | 1044 | 1088 | 1160 | 1305 | 1523 | 1740 | 2175 | 791 | 725 | 696 | | 579 |
| S200 | 960 | 96 | 1461 | 6388 | 0 | 2769 | 960 | 1056 | 1152 | 1200 | 1280 | 1440 | 1680 | 1920 | 2400 | 873 | 800 | 768 | | 639 |
| S200 | 1160 | 110 | 1395 | 5997 | 0 | 2611 | 1160 | 1276 | 1392 | 1450 | 1547 | 1740 | 2030 | 2320 | 2900 | 1054 | 966 | 928 | NA | 773 |
| S200 | 1460 | 129 | 1300 | 5557 | 0 | 2406 | 1460 | 1606 | 1752 | 1825 | 1947 | 2190 | 2555 | 2920 | 3650 | 1327 | 1216 | 1168 | | 972 |
| S200 | 1550 | 135,2 | 1270 | 5377 | 0 | 2350 | 1550 | 1705 | 1860 | 1938 | 2067 | 2325 | 2713 | 3100 | 3875 | 1409 | 1291 | 1240 | | 1032 |
| S200 | 1650 | 141,1 | 1250 | 5273 | 0 | 2300 | 1650 | 1815 | 1980 | 2063 | 2200 | 2475 | 2888 | 3300 | 4125 | 1500 | 1374 | 1320 | | 1099 |
| S200 | 1760 | 147 | 1226 | 5221 | 0 | 2270 | 1760 | 1936 | 2112 | 2200 | 2347 | 2640 | 3080 | 3520 | 4400 | 1600 | 1466 | 1408 | | 1172 |

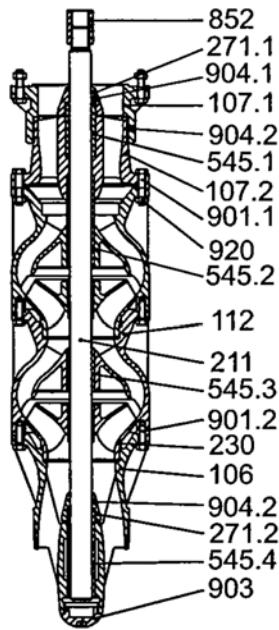
11. Cross section drawings
Electric motor driven pump



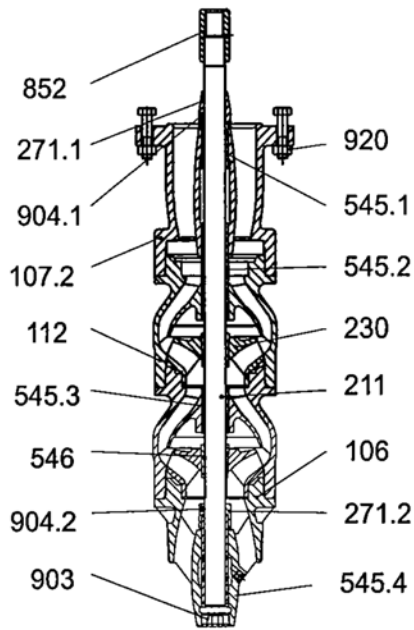
Engine driven pump



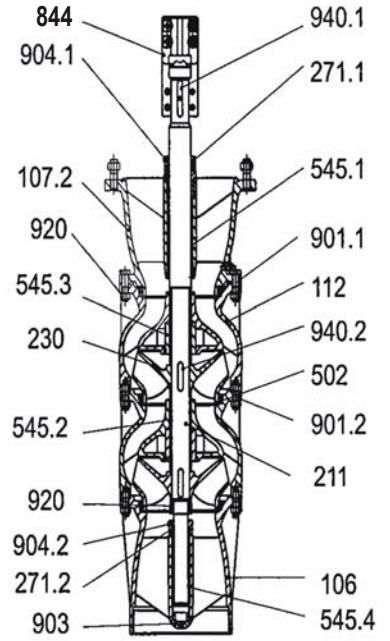
11.1 Pump



| PUMP SIZE |
|------------------|
| 8000 |
| 1063, 1066 |
| 1226, 1280, 1286 |
| 1486 |

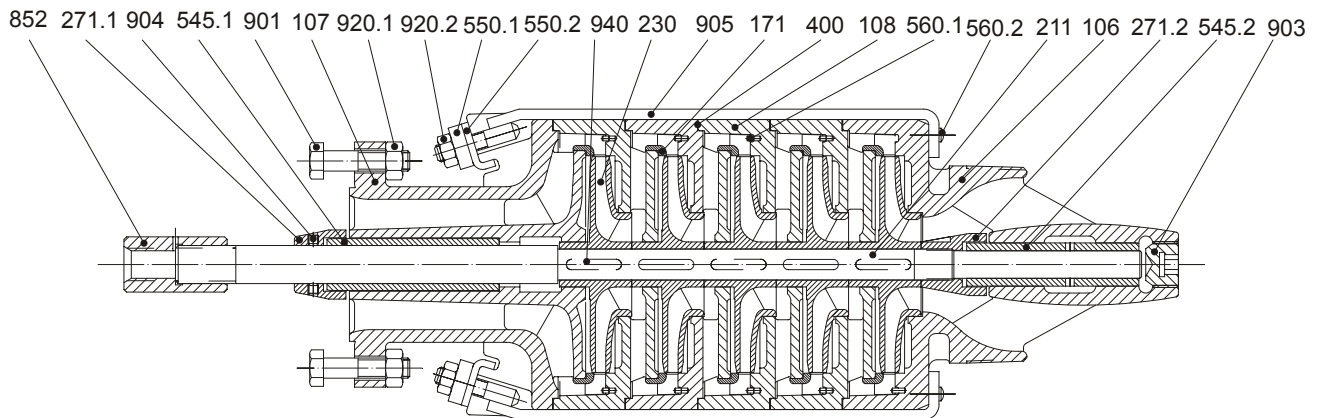


| PUMP SIZE |
|------------|
| 6056 |
| 8050, 8056 |



| PUMP SIZE |
|-----------|
| 14 |
| 16 |
| 20 |
| 22 |

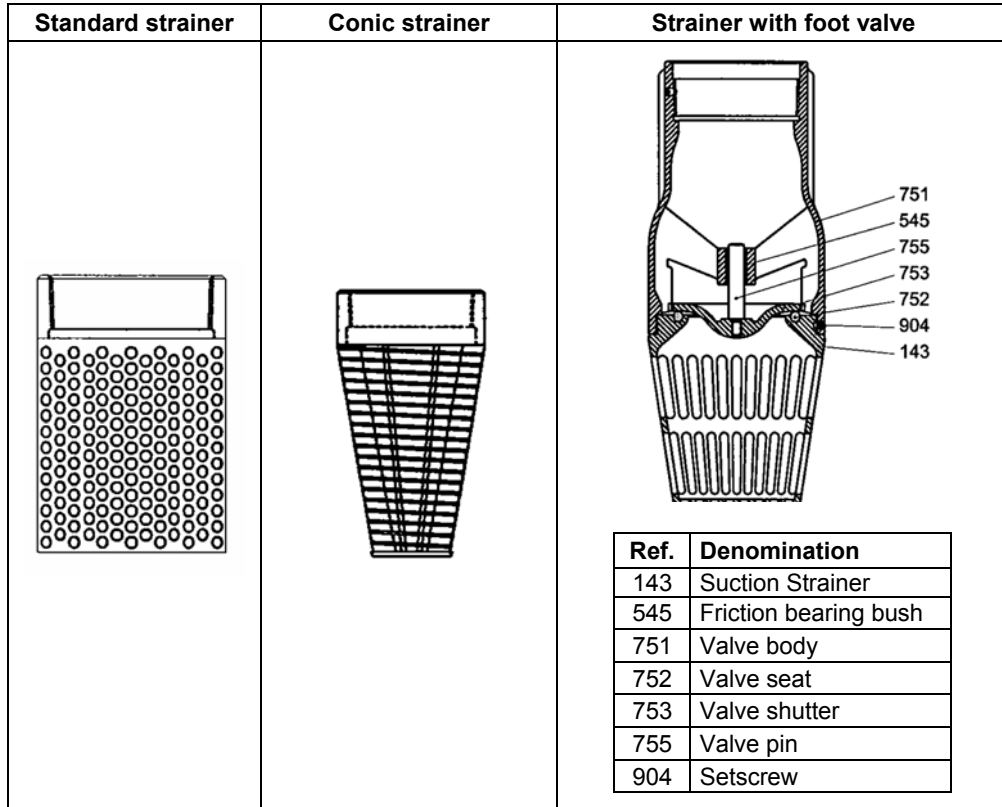
6685 PUMP SIZE



| Ref. | Denomination |
|------|-----------------------|
| 106 | Suction casing |
| 107 | Discharge casing |
| 108 | Stage casing |
| 112 | Pump bowl |
| 171 | Diffuser |
| 211 | Pump shaft |
| 230 | Impeller |
| 271 | Sand guard |
| 400 | Gasket |
| 502 | Wear ring |
| 545 | Friction bearing bush |

| Ref. | Denomination |
|------|----------------------|
| 546 | Conical sleeve |
| 550 | Washer |
| 560 | Pin |
| 852 | Threaded coupling |
| 901 | Hexagonal head screw |
| 903 | Plug |
| 904 | Setscrew |
| 905 | Tie bolt |
| 920 | Nut |
| 940 | Key |

11.2 Strainer and foot valve

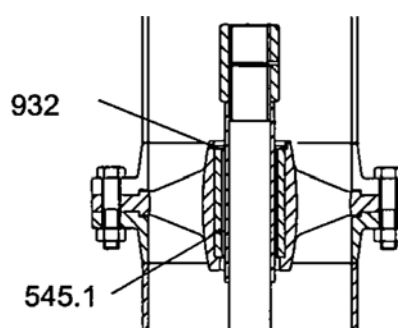
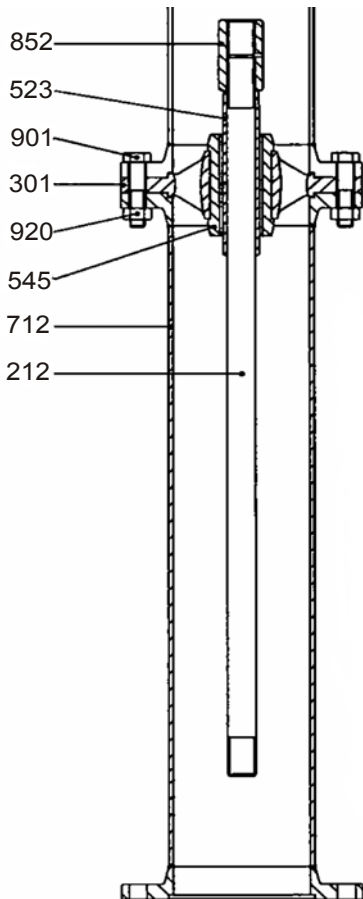


11.3 Column pipe

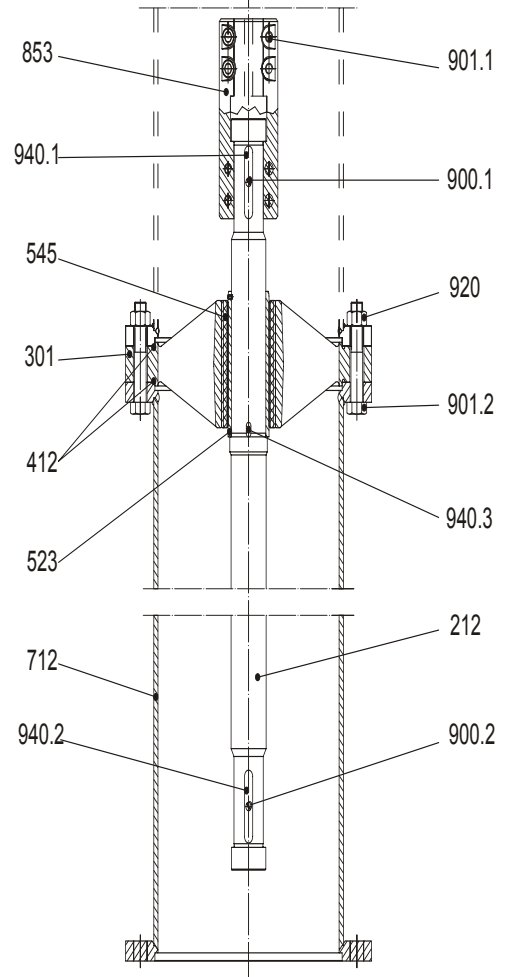
Ø shaft ≤ 1"

1" < Ø shaft ≤ 1 15/16"

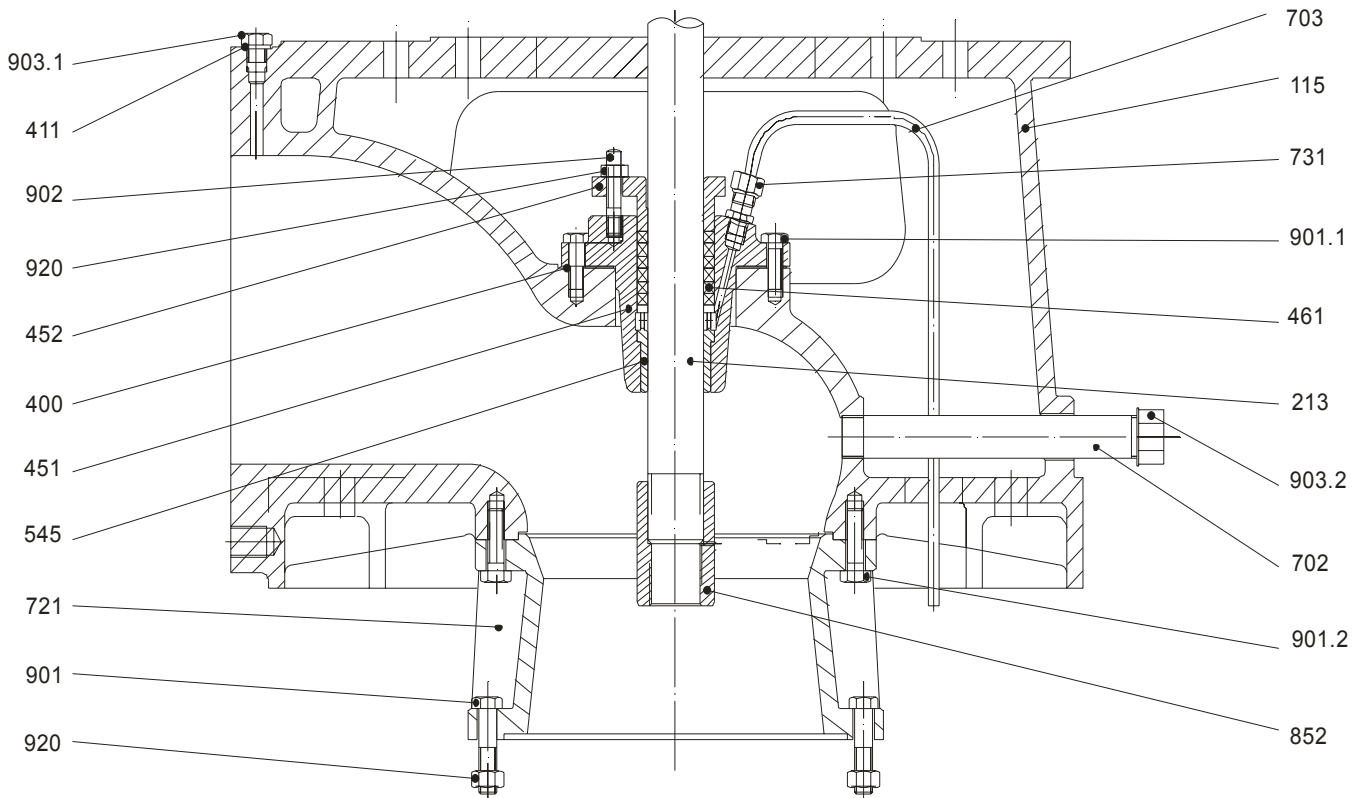
Ø shaft > 1 15/16"



| Ref. | Denomination |
|------|------------------------------|
| 212 | Intermediate drive shaft |
| 301 | Intermediate bearing support |
| 412 | O-ring |
| 523 | Shaft wearing sleeve |
| 545 | Friction bearing bush |
| 712 | Intermediate pipe |
| 852 | Threaded coupling |
| 853 | Axial split coupling |
| 900 | Screw |
| 901 | Hexagonal head screw |
| 920 | Nut |
| 932 | Circlip |
| 940 | Key |

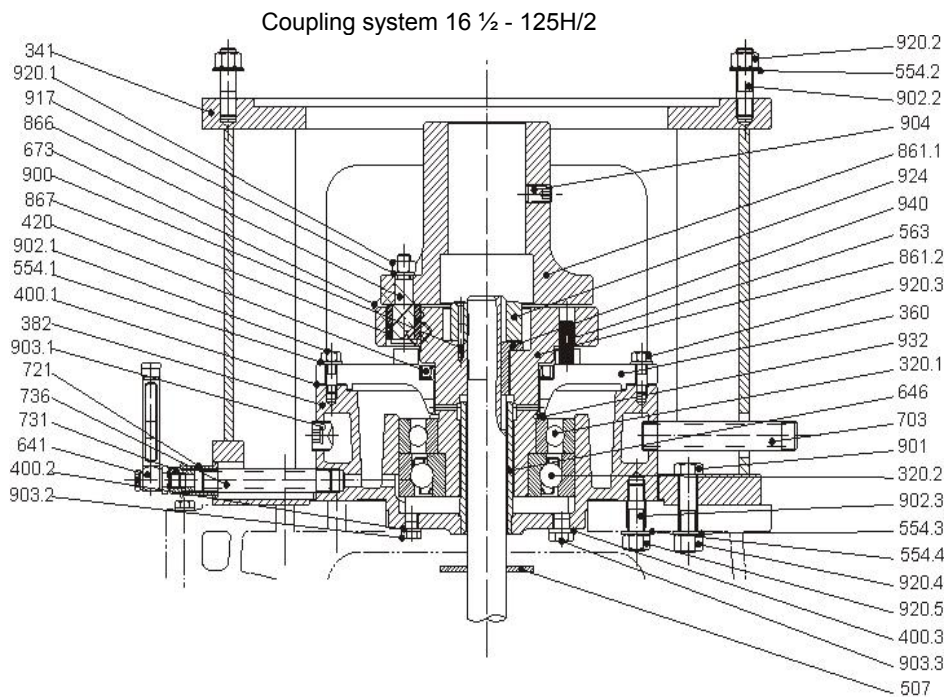
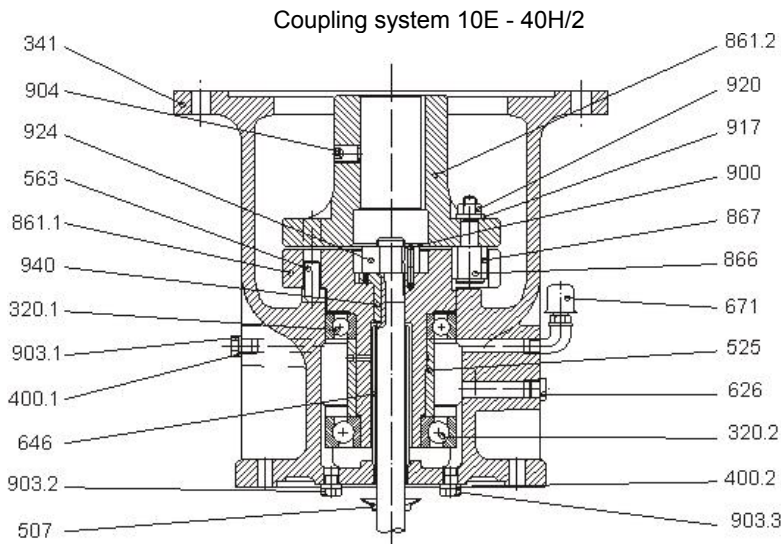
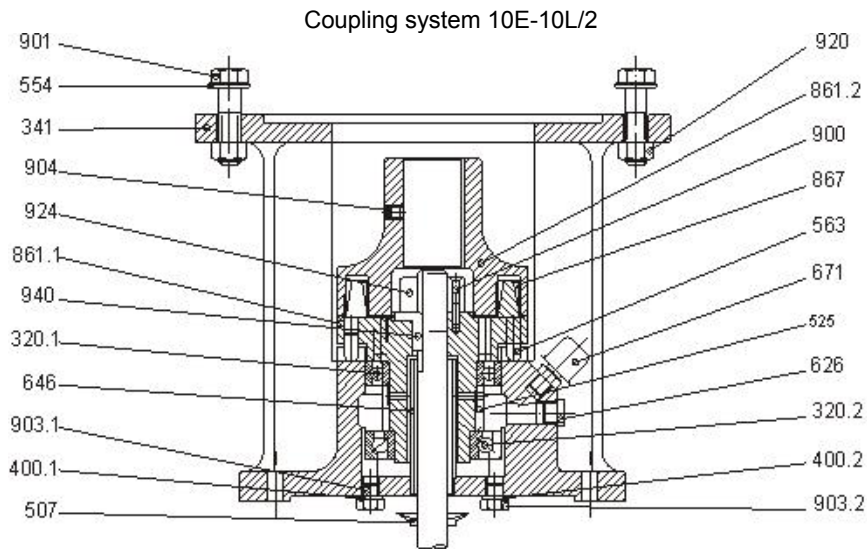


11.4 Discharge head

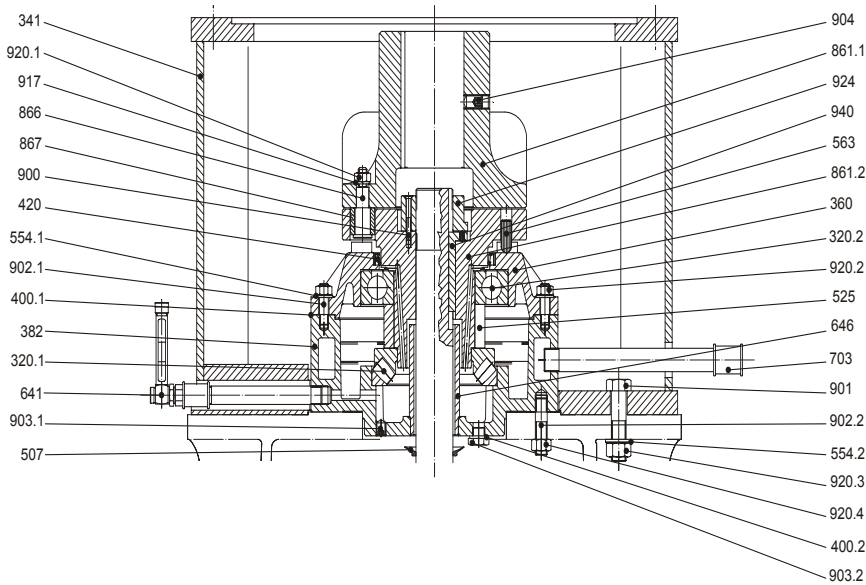


| Ref. | Denomination |
|------|-----------------------|
| 115 | Discharge head |
| 213 | Drive shaft |
| 400 | O-ring |
| 411 | Circular gasket |
| 451 | Packing box |
| 452 | Packing gland |
| 461 | Packing |
| 545 | Friction bearing bush |
| 702 | Priming pipe |
| 703 | Cooling pipe |
| 721 | Adapter piece |
| 731 | Racord |
| 852 | Threaded coupling |
| 901 | Hexagonal head screw |
| 902 | Bolt |
| 903 | Plug |
| 904 | Setscrew |
| 920 | Nut |

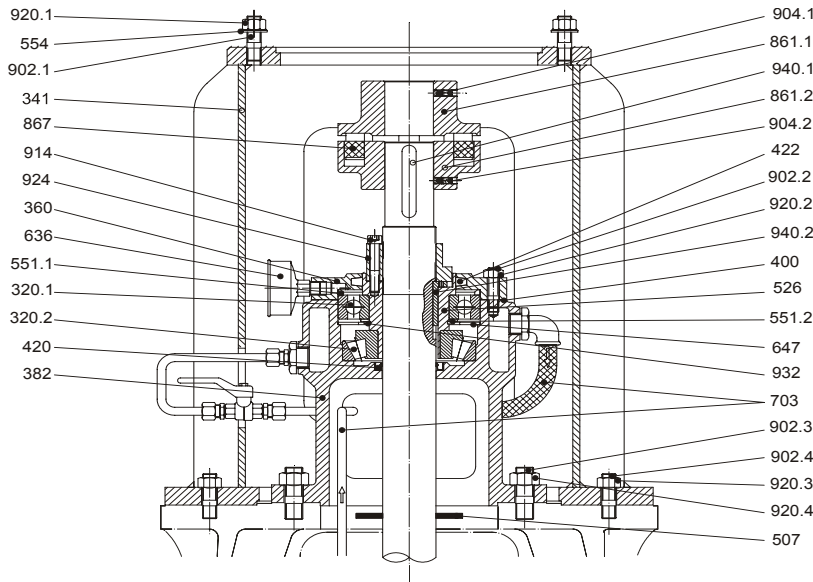
11.5 Coupling system (for electric motor driven pumps)



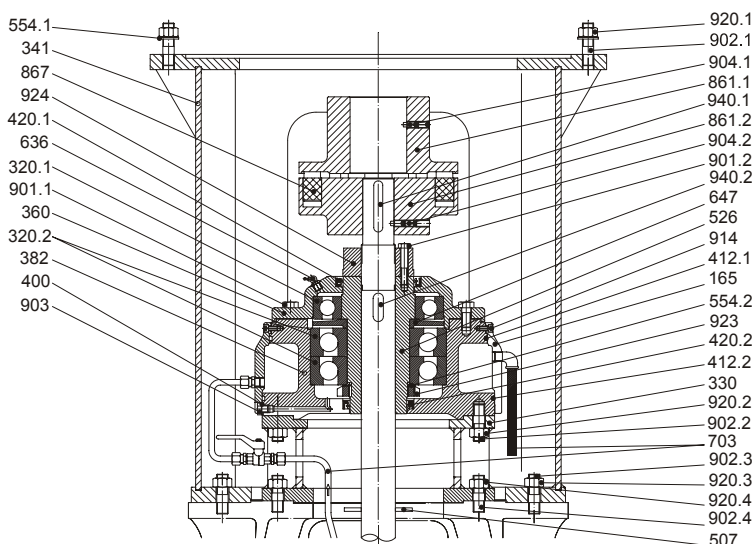
Coupling system 20E - 300H/4



Coupling system AE - 370

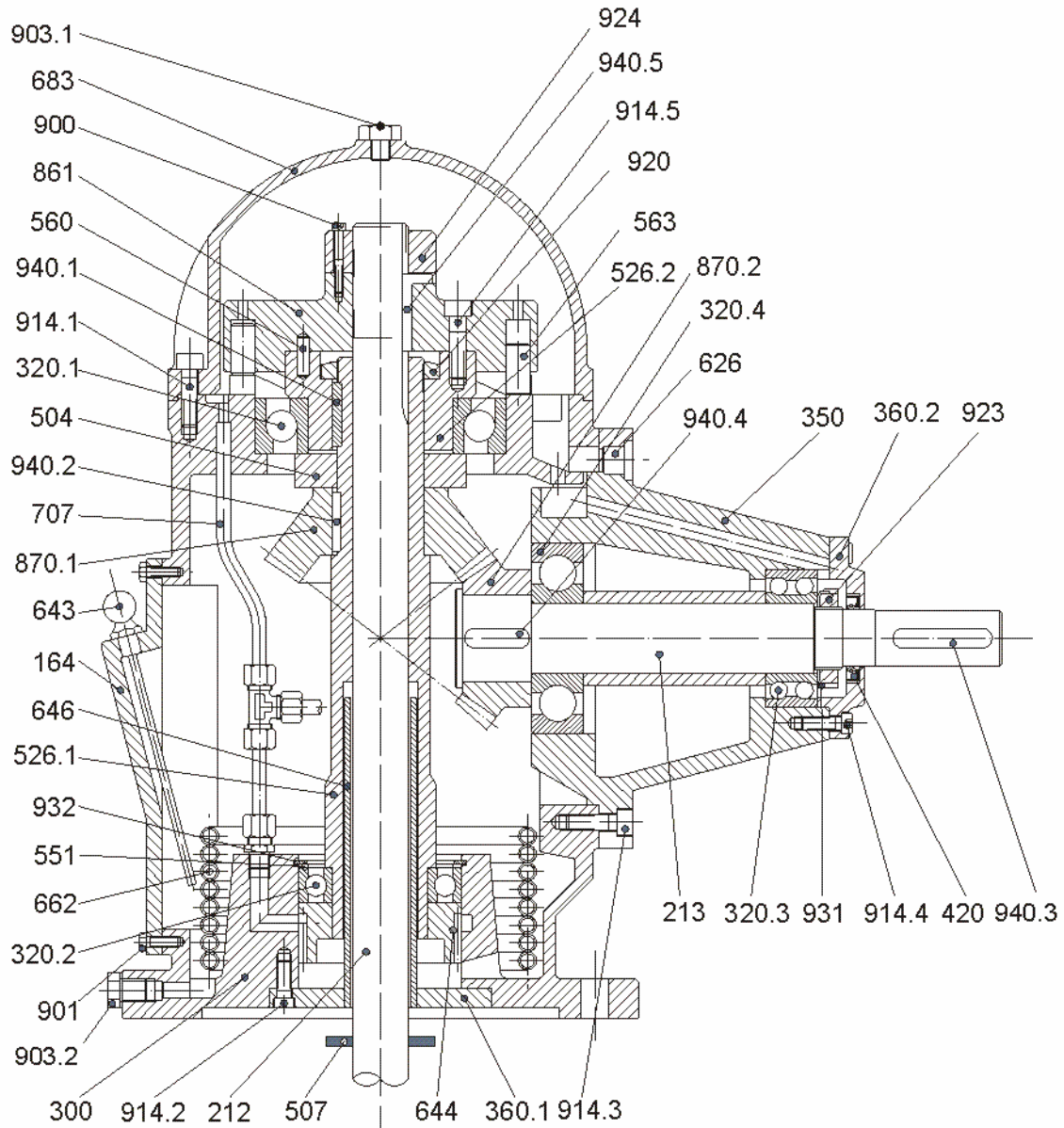


Coupling system AE - 400



| Ref. | Denomination |
|------|-----------------------|
| 165 | Cooling chamber cover |
| 320 | Bearing |
| 330 | Support |
| 341 | Pedestal |
| 360 | Bearing cover |
| 382 | Bearing support |
| 400 | Gasket |
| 412 | O-ring |
| 420 | Lip seal |
| 507 | Deflector protection |
| 525 | Spacer sleeve |
| 526 | Centring sleeve |
| 551 | Spacer washer |
| 554 | Flat washer |
| 563 | Bolt |
| 626 | Sight |
| 636 | Grease nipple |
| 641 | Oil level tube |
| 646 | Oil retaining sleeve |
| 647 | Grease regulator |
| 671 | Vacuum breaker cup |
| 673 | Vent Strainer |
| 703 | Cooling pipe |
| 721 | Adapter piece |
| 731 | Racord |
| 736 | Lenghtening |
| 861 | Half coupling |
| 866 | Coupling pin |
| 867 | Coupling flexible |
| 900 | Screw |
| 901 | Hexagonal head screw |
| 902 | Bolt |
| 903 | Plug |
| 904 | Setscrew |
| 914 | Allen screw |
| 917 | Grower washer |
| 920 | Nut |
| 923 | Bearing nut |
| 924 | Regulation nut |
| 932 | Circlip |
| 940 | Key |

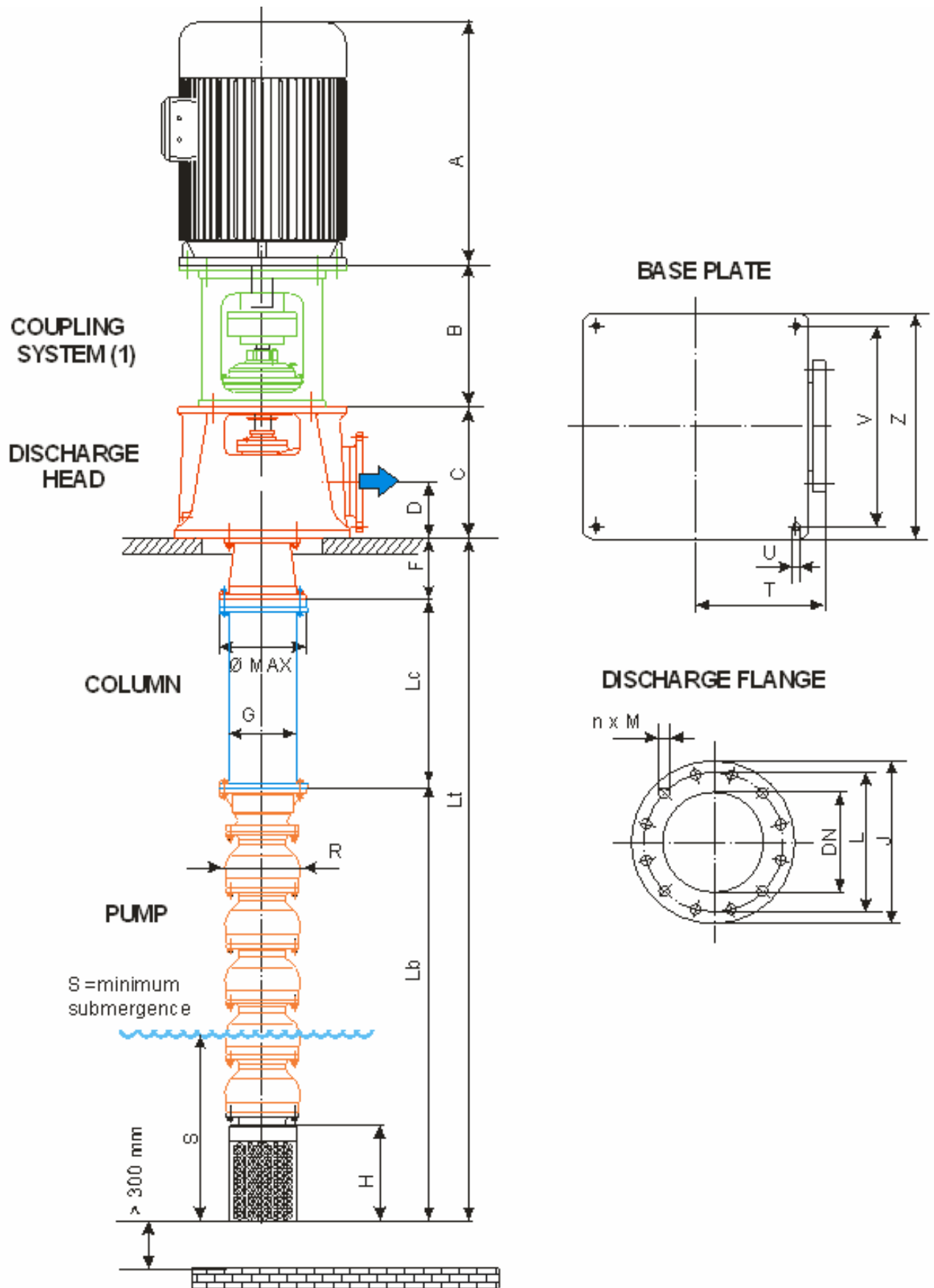
11.6 Right angle gear drive (for engine driven pumps)



| Ref. | Denomination |
|------|--------------------------|
| 164 | Inspection cover |
| 212 | Intermediate drive shaft |
| 213 | Drive shaft |
| 300 | Support |
| 320 | Bearing |
| 350 | Bearing housing |
| 360 | Bearing cover |
| 420 | Lip seal |
| 504 | Spacer ring |
| 507 | Deflector protection |
| 526 | Centring sleeve |
| 551 | Spacer washer |
| 560 | Pin |
| 563 | Bolt |
| 626 | Sight |
| 643 | Oil dipstick |
| 644 | Oil ring |

| Ref. | Denomination |
|------|----------------------|
| 646 | Oil retaining sleeve |
| 662 | Coil |
| 683 | Cap |
| 707 | Lubrication pipe |
| 861 | Half coupling |
| 870 | Gear |
| 900 | Screw |
| 901 | Hexagonal head screw |
| 903 | Plug |
| 914 | Allen screw |
| 920 | Nut |
| 923 | Bearing nut |
| 924 | Regulation nut |
| 931 | Safety washer |
| 932 | Circlip |
| 940 | Key |

12. Dimensions



(1) In case of engine driven pump , there is no coupling system but a right angle gear drive

| DISCHARGE HEAD AND BASE PLATE DIMENSIONS | | | | | | | | | | | | | |
|------------------------------------------|------------------|----|----|------|-----|-----|-----|-----|-----|-----|----|-----|------|
| DISCHARGE HEAD SIZE | DISCHARGE FLANGE | | | | | | F | C | D | T | U | V | Z |
| | DN (1) Flange | PN | n | M | L | J | | | | | | | |
| 3/10 | 80 | 40 | 8 | M-16 | 160 | 200 | 130 | 230 | 108 | 200 | 18 | 300 | 350 |
| 4/10 | 100 | 16 | 8 | M-16 | 180 | 220 | 107 | 253 | 125 | 200 | 18 | 300 | 350 |
| 5/12 | 125 | 16 | 8 | M-16 | 210 | 254 | 130 | 260 | 135 | 220 | 18 | 350 | 420 |
| 6/16½ | 150 | 16 | 8 | M-20 | 240 | 286 | 118 | 304 | 150 | 265 | 22 | 410 | 510 |
| 8/16½ | 200 | 16 | 12 | M-20 | 295 | 340 | 98 | 354 | 180 | 310 | 23 | 468 | 568 |
| 10/20 | 250 | 16 | 12 | M-24 | 335 | 405 | 125 | 520 | 225 | 400 | 23 | 620 | 700 |
| 12/20 | 300 | 16 | 12 | M-24 | 410 | 460 | 295 | 650 | 295 | 465 | 32 | 700 | 800 |
| 16/24 | 400 | 16 | 16 | M-27 | 525 | 580 | 294 | 750 | 430 | 570 | 32 | 900 | 1000 |

(1) Consult KSB ITUR for ANSI flange option

All dimensions in mm

| BELOW BASE PLATE DIMENSIONS | | | | | | | | | | |
|-----------------------------|-----|-----------|------|--------|----------------|----------------------|--------------------------------|---------------------------------------------------------------------------|-----------------------------------|------------|
| PUMP SIZE | R | Ø MAX (1) | S | H | Max. stage nr. | Lb min (for 1 stage) | Lb max (for max.nr. of stages) | Lc (Column length) | Lt (total length) | Lt max [m] |
| 6685A | 190 | 190 | 380 | 250 | 12 | 472 | 934 | 305 610 915 1220 1525 1830 2135 2440 2745 3050 | Lb + Lc x Column Nr.(5) + F | 100 (7) |
| 6685B | 190 | | 380 | | 12 | 472 | 934 | | | |
| 6356 | 147 | 160 | 495 | | 32 (2) | 585 | 4522 | | | |
| 6456 | 147 | 242 | 475 | | 32 (2) | 472 | 1816 | | | |
| 8300 | 190 | 190 | 475 | 230 | 32 (3) | 584 | 5017 | | | |
| 8400 | 190 | 242 | 475 | | 32 (3) | 584 | 5017 | | | |
| 8050 | 197 | 280 | 476 | | 29 (4) | 653 | 5805 | | | |
| 8056 | 197 | | 476 | 29 (5) | 653 | 5805 | | | | |
| 1063 | 241 | 400 | 650 | 252 | 24 | 786 | 5754 | | | |
| 1066 | 241 | | 650 | | 24 | 786 | 5754 | | | |
| 1226 | 288 | | 755 | 285 | 15 | 800 | 4132 | | | |
| 1280 | 298 | | 1040 | | 11 | 1060 | 3680 | | | |
| 1286 | 298 | | 1040 | 477 | 11 | 1061 | 3681 | | | |
| 1486 | 356 | | 1185 | | 10 | 1186 | 4291 | | | |
| 14D | 400 | 565 | 900 | 220 | 10 | 1025 | 3140 | | | |
| 16D | 400 | | 950 | | 8 (5) | 1090 | 2980 | | | |
| 20B | 565 | | 1160 | 350 | 6 (5) | 1491 | 3166 | | | |
| 22B | 565 | | 1000 | | 3 | 1430 | 2230 | | | |

(1) Maximum considering biggest column and discharge head size

All dimensions in mm (except Lt)

(2) For 2900 rpm, 22 stages max.

(3) For 2900 rpm, 12 stages max.

(4) For 2900 rpm, 10 stages max.

(5) For shaft in AISI-431B or NITRONIC 50HS. Consult KSB ITUR for other shaft materials

(6) Considering all columns of equal length

(7) Length for speed ≤ 1800. For speed >1800 rpm max. length 60 m

| ELECTRIC DRIVEN PUMPS | | | | | | | | | | | |
|-----------------------|-------------------|--------------------|----------------------------------|-----------------|-------------------|----------------------|-------------|-----------|----------------------|-----|------------------------|
| COLUMN | | | PUMP SIZE | IEC MOTOR FRAME | MAX. DRIVE RATING | COUPLING SYSTEM SIZE | B | A ≈ (2) | DISCHARGE HEAD SIZE | | |
| G | External Flange Ø | Column shaft Ø (1) | | | P2 / n [kW / rpm] | | | | | | |
| 3" | 142 | 7/8" | BEV-6685 BEV-6356 BEV-8300 | 90 | 0,0052 | 10E-10L/2 | 285 | 281 | 3/10 | | |
| | | | | 100 | | | | 312 | | | |
| | | | | 112 | | | | 333 | | | |
| | | | | 132 | | | | 373 | | | |
| | | | | 160 | | | | 478 | | | |
| | | | | 132 | | | | 373 | | | |
| | | | | 160 | 0,0310 | 10E-40H/2 | 365 | 478 | | | |
| | | | | 180 | | | | 602 | | | |
| 4" | 188 | 7/8" | BEV-6456 BEV-8400 | 90 | 0,0052 | 10E-10L/2 | 285 | 281 | 3/10 4/10 5/12 | | |
| | | | | 100 | | | | 312 | | | |
| | | | | 112 | | | | 333 | | | |
| | | | | 132 | | | | 373 | | | |
| | | | | 160 | | | | 478 | | | |
| | | | | 132 | | | | 373 | | | |
| | | 1" | BEV-8050 | 0,0310 | 10E-40H/2 | 365 | 373 | | | | |
| | | | | | | | 1 1/4" | BEV-8056 | 160 | 478 | |
| | | | | | | | | | 180 | 602 | |
| | | 5" | 192 | 7/8" | BEV-8050 | 90 | 0,0052 | 10E-10L/2 | 285 | 281 | 4/10 5/12 |
| | | | | | | 100 | | | | 312 | |
| | | | | | | 112 | | | | 333 | |
| 132 | 373 | | | | | | | | | | |
| 160 | 478 | | | | | | | | | | |
| 132 | 373 | | | | | | | | | | |
| 1" | BEV-8056 | 0,0310 | 10E-40H/2 | 365 | 478 | | | | | | |
| | | | | | 1 1/4" | BEV-1063 | 160 | 602 | | | |
| | | | | | | | 180 | 666 | | | |
| 5" | 192 | 7/8" | BEV-1066 | 200 | 0,0310 | 10E-40H/2 | 365 | 660 | 5/12 | | |
| | | | | 225 | | | | 666 | | | |
| | | | | 250 | | | | 747 | | | |
| | | | | 200 | | | | 660 | | | |
| | | | | 225 | | | | 666 | | | |
| | | | | 250 | | | | 747 | | | |
| | | 6" | 242 | 1" | BEV-8050 | 90 | 0,0052 | 10E-10L/2 | 285 | 281 | 5/12 6/16½ 8/16½ |
| | | | | | | 100 | | | | 312 | |
| | | | | | | 112 | | | | 333 | |
| | | | | | | 132 | | | | 373 | |
| | | | | | | 160 | | | | 478 | |
| | | | | | | 132 | | | | 373 | |
| 1 1/4" | BEV-8056 | | | 0,0310 | 10E-40H/2 | 365 | 478 | | | | |
| | | | | | | | 1 1/2" | BEV-1063 | 160 | 602 | |
| | | | | | | | | | 180 | 660 | |
| 1 1/2" | BEV-1066 | | | 0,0310 | 10E-40H/2 | 365 | 200 | 666 | | | |
| | | | | | | | 225 | 747 | | | |
| | | | | | | | 250 | 0,0310 | 10E-40H/2 | 365 | 747 |
| | | 250 | 0,0690 | | | | 16½E-125H/2 | 365 | 820 | | |
| | | 280 | 0,0690 | | | | 16½E-125H/2 | 365 | 1092 | | |
| | | 315 | 0,0690 | | | | 16½E-125H/2 | 365 | 1092 | | |
| 315-2 | 0,1724 | 20E-300H/4 | 450 | 1092 | | | | | | | |

(1) Check P/n for column shaft selection

(2) Dimension depends on motor manufacturer

All dimensions in mm, except shaft values in "

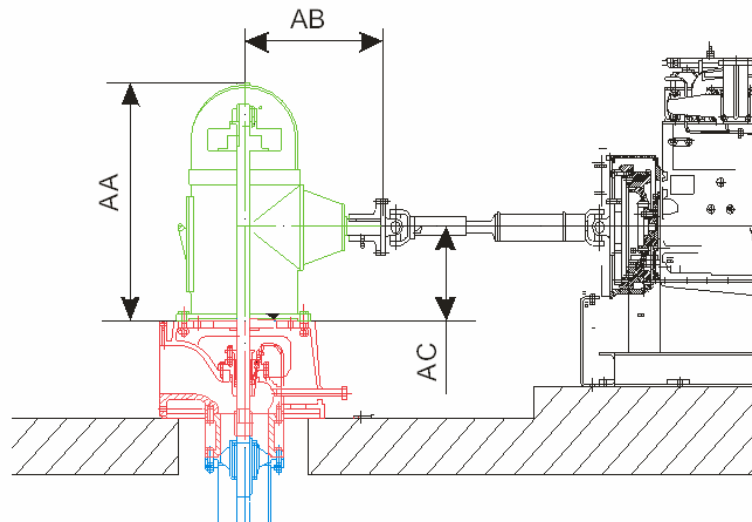
| ELECTRIC DRIVEN PUMPS | | | | | | | | | |
|-----------------------|-------------------|----------------------------------------|------------|-----------------|-------------------------------------------|----------------------|-----|---------|---------------------|
| COLUMN | | | PUMP SIZE | IEC MOTOR FRAME | MAX. DRIVE RATING P2 / n [kW / rpm] | COUPLING SYSTEM SIZE | B | A ≈ (2) | DISCHARGE HEAD SIZE |
| G | External Flange Ø | Column shaft Ø (1) | | | | | | | |
| 8" | 290 | 1 1/4" 1 1/2" 1 11/16 1 15/16 | BEV-1063 | 90 | 0,0052 | 10E-10L/2 | 285 | 281 | 8/16½ 10/20 |
| | | | | 100 | | | | 312 | |
| | | | | 112 | | | | 333 | |
| | | | | 132 | | | | 373 | |
| | | | | 160 | | | | 478 | |
| | | | BEV-1066 | 132 | 0,0310 | 10E-40H/2 | 365 | 373 | |
| | | | | 160 | | | | 478 | |
| | | | | 180 | | | | 602 | |
| | | | | 200 | | | | 660 | |
| | | | BEV-1286 | 225 | 0,0690 | 16½E-125H/2 | 365 | 666 | |
| | | | | 250 | | | | 747 | |
| | | | | 280 | | | | 820 | |
| | | | | 315 | | | | 1092 | |
| | | | | 315 | | | | 1092 | |
| BEV-1486 | 355 | 0,1724 | 20E-300H/4 | 450 | 1092 | | | | |
| | 355 | 0,1724 | 20E-300H/4 | 450 | 1465 | 10/20 | | | |
| 10" | 343 | 1 1/4" 1 1/2" 1 11/16 1 15/16 | BEV-1280 | 90 | 0,0052 | 10E-10L/2 | 285 | 281 | 8/16½ 10/20 |
| | | | | 100 | | | | 312 | |
| | | | | 112 | | | | 333 | |
| | | | | 132 | | | | 373 | |
| | | | | 160 | | | | 478 | |
| | | | BEV-1286 | 160 | 0,0310 | 10E-40H/2 | 365 | 478 | |
| | | | | 180 | | | | 602 | |
| | | | | 200 | | | | 660 | |
| | | | | 225 | | | | 666 | |
| | | | BEV-1486 | 250 | 0,0690 | 16½E-125H/2 | 365 | 747 | |
| | | | | 280 | | | | 820 | |
| | | | | 315 | | | | 1092 | |
| | | | | 315 | | | | 1092 | |
| | | | | 355 | | | | 1465 | |
| BEV-14D | 160 | 0,0310 | 10E-40H/2 | 285 | 478 | 10/20 | | | |
| | 180 | | | | 602 | | | | |
| | 200 | | | | 660 | | | | |
| | 225 | | | | 666 | | | | |
| 12" | 420 | 50 60 | BEV-14D | 250 | 0,1379 | AE-370 | 670 | 747 | 10/20 12/20 |
| | | | | 280 | | | | 820 | |
| | | | | 315 | | | | 1092 | |
| | | | BEV-16D | 355 | 0,3103 | AE-400 | 790 | 1465 | |
| | | | | 355 | | | | 1625 | |
| | | | | 400 | | | | 1625 | |
| 16" | 565 | 50 60 | BEV-14D | 250 | 0,1379 | AE-370 | 670 | 747 | 16/24 |
| | | | | 280 | | | | 820 | |
| | | | | 315 | | | | 1092 | |
| | | | BEV-16D | 355 | 0,3103 | AE-400 | 790 | 1465 | |
| | | | | 355 | | | | 1465 | |
| | | | | 400 | | | | 1625 | |

(1) Check P/n for column shaft selection

All dimensions in mm, except some shaft values in "

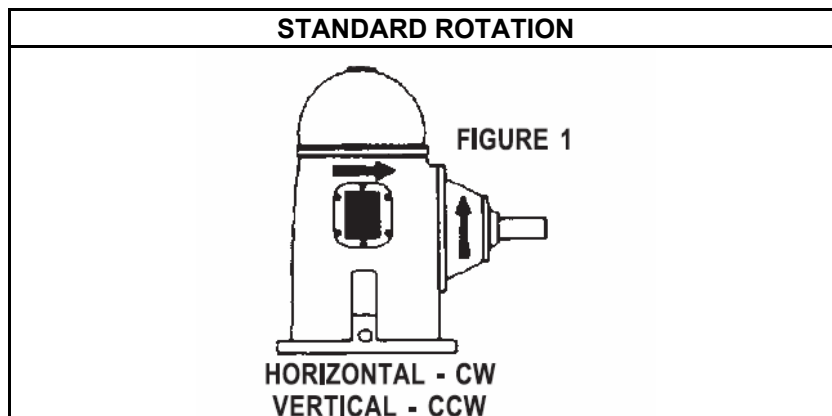
(2) Dimension depends on motor manufacturer

ENGINE DRIVEN PUMPS



| RIGHT ANGLE GEAR DRIVE DIMENSIONS | | | | |
|-----------------------------------|--------|---------|-----|-----|
| GEAR DRIVE SIZE | AA | | AB | AC |
| | Type S | Type SL | | |
| S030 | 414 | 414 | 277 | 172 |
| S040A | 553 | 553 | 397 | 216 |
| S060A | 713 | 713 | 420 | 293 |
| S100A | 713 | 744 | 426 | 293 |
| S125A | 744 | 744 | 426 | 293 |
| S150A | 748 | 748 | 477 | 293 |
| S200A | 882 | 882 | 528 | 350 |
| S250 | 882 | NA | 569 | 350 |
| S300 | 882 | | 569 | 350 |
| S350 | 1100 | | 569 | 350 |
| S450A | 1100 | 1090 | 648 | 407 |
| S500A | 1100 | 1090 | 648 | 407 |
| S600A | 1100 | 1090 | 648 | 407 |
| S750A | 1271 | 1220 | 680 | 458 |
| S1000G | 1582 | 1582 | 937 | 534 |

All dimensions in mm



| ENGINE DRIVEN PUMP COMBINATIONS | | | | | | | | | |
|---------------------------------|--------|----------------|-----------------------------|-------|-------|-------|-------|-------|-----------|
| PUMP SIZE | COLUMN | DISCHARGE HEAD | RIGHT ANGLE GEAR DRIVE SIZE | | | | | | |
| 6685A | 3" | 3/10 | S030 | S040A | | | | | |
| 6685B | 3" | 3/10 | S030 | S040A | | | | | |
| 6056 | 3" | 3/10 | S030 | S040A | | | | | |
| 8000 | 3" | 3/10 | S030 | S040A | | | | | |
| 6685A | 3" | 4/10 | S030 | S040A | S060A | S100A | | | |
| 6685B | 3" | 4/10 | S030 | S040A | S060A | S100A | | | |
| 6056 | 3" | 4/10 | S030 | S040A | S060A | S100A | | | |
| 8000 | 3" | 4/10 | S030 | S040A | S060A | S100A | | | |
| 6056 | 4" | 3/10 | S030 | S040A | | | | | |
| 8000 | 4" | 3/10 | S030 | S040A | | | | | |
| 8050 | 4" | 3/10 | S030 | S040A | | | | | |
| 8056 | 4" | 3/10 | S030 | S040A | | | | | |
| 6056 | 4" | 4/10 | S030 | S040A | S060A | S100A | | | |
| 8000 | 4" | 4/10 | S030 | S040A | S060A | S100A | | | |
| 8050 | 4" | 4/10 | S030 | S040A | S060A | S100A | | | |
| 8056 | 4" | 4/10 | S030 | S040A | S060A | S100A | | | |
| 6056 | 4" | 5/12 | S030 | S040A | S060A | S100A | | | |
| 8000 | 4" | 5/12 | S030 | S040A | S060A | S100A | | | |
| 8050 | 4" | 5/12 | S030 | S040A | S060A | S100A | | | |
| 8056 | 4" | 5/12 | S030 | S040A | S060A | S100A | | | |
| 8050 | 5" | 4/10 | S030 | S040A | S060A | S100A | S125A | S150A | |
| 8056 | 5" | 4/10 | S030 | S040A | S060A | S100A | S125A | S150A | |
| 1063 | 5" | 4/10 | S030 | S040A | S060A | S100A | S125A | S150A | |
| 1066 | 5" | 4/10 | S030 | S040A | S060A | S100A | S125A | S150A | |
| 8050 | 5" | 5/12 | S030 | S040A | S060A | S100A | S125A | S150A | |
| 8056 | 5" | 5/12 | S030 | S040A | S060A | S100A | S125A | S150A | |
| 1063 | 5" | 5/12 | S030 | S040A | S060A | S100A | S125A | S150A | |
| 1066 | 5" | 5/12 | S030 | S040A | S060A | S100A | S125A | S150A | |
| 8050 | 6" | 5/12 | S030 | S040A | S060A | S100A | S125A | S150A | |
| 8056 | 6" | 5/12 | S030 | S040A | S060A | S100A | S125A | S150A | |
| 1063 | 6" | 5/12 | S030 | S040A | S060A | S100A | S125A | S150A | |
| 1066 | 6" | 5/12 | S030 | S040A | S060A | S100A | S125A | S150A | |
| 1226 | 6" | 5/12 | S030 | S040A | S060A | S100A | S125A | S150A | |
| 8050 | 6" | 6/16½ | S030 | S040A | S060A | S100A | S125A | S150A | |
| 8056 | 6" | 6/16½ | S030 | S040A | S060A | S100A | S125A | S150A | |
| 1063 | 6" | 6/16½ | S030 | S040A | S060A | S100A | S125A | S150A | |
| 1066 | 6" | 6/16½ | S030 | S040A | S060A | S100A | S125A | S150A | |
| 1226 | 6" | 6/16½ | S030 | S040A | S060A | S100A | S125A | S150A | |
| 8050 | 6" | 8/16½ | S030 | S040A | S060A | S100A | S125A | S150A | S200 S250 |
| 8056 | 6" | 8/16½ | S030 | S040A | S060A | S100A | S125A | S150A | S200 S250 |
| 1063 | 6" | 8/16½ | S030 | S040A | S060A | S100A | S125A | S150A | S200 S250 |
| 1066 | 6" | 8/16½ | S030 | S040A | S060A | S100A | S125A | S150A | S200 S250 |
| 1226 | 6" | 8/16½ | S030 | S040A | S060A | S100A | S125A | S150A | S200 S250 |

| ENGINE DRIVEN PUMP COMBINATIONS | | | | | | | | | | | | | | |
|---------------------------------|--------|----------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| PUMP SIZE | COLUMN | DISCHARGE HEAD | RIGHT ANGLE GEAR DRIVE SIZE | | | | | | | | | | | |
| 1063 | 8" | 8/16½ | S030 | S040A | S060A | S100A | S125A | S150A | S200 | S250 | | | | |
| 1066 | 8" | 8/16½ | S030 | S040A | S060A | S100A | S125A | S150A | S200 | S250 | | | | |
| 1226 | 8" | 8/16½ | S030 | S040A | S060A | S100A | S125A | S150A | S200 | S250 | | | | |
| 1280 | 8" | 8/16½ | S030 | S040A | S060A | S100A | S125A | S150A | S200 | S250 | | | | |
| 1286 | 8" | 8/16½ | S030 | S040A | S060A | S100A | S125A | S150A | S200 | S250 | | | | |
| 1486 | 8" | 8/16½ | S030 | S040A | S060A | S100A | S125A | S150A | S200 | S250 | | | | |
| 1063 | 8" | 10/20 | S030 | S040A | S060A | S100A | S125A | S150A | S200 | S250 | | | | |
| 1066 | 8" | 10/20 | S030 | S040A | S060A | S100A | S125A | S150A | S200 | S250 | | | | |
| 1226 | 8" | 10/20 | S030 | S040A | S060A | S100A | S125A | S150A | S200 | S250 | | | | |
| 1280 | 8" | 10/20 | S030 | S040A | S060A | S100A | S125A | S150A | S200 | S250 | | | | |
| 1286 | 8" | 10/20 | S030 | S040A | S060A | S100A | S125A | S150A | S200 | S250 | | | | |
| 1486 | 8" | 10/20 | S030 | S040A | S060A | S100A | S125A | S150A | S200 | S250 | | | | |
| 1280 | 10" | 8/16½ | S030 | S040A | S060A | S100A | S100A | S125A | S150A | S200 | S250 | | | |
| 1286 | 10" | 8/16½ | S030 | S040A | S060A | S100A | S100A | S125A | S150A | S200 | S250 | | | |
| 1486 | 10" | 8/16½ | S030 | S040A | S060A | S100A | S100A | S125A | S150A | S200 | S250 | | | |
| 1280 | 10" | 10/20 | S030 | S040A | S060A | S100A | S100A | S125A | S150A | S200 | S250 | | | |
| 1286 | 10" | 10/20 | S030 | S040A | S060A | S100A | S100A | S125A | S150A | S200 | S250 | | | |
| 1486 | 10" | 10/20 | S030 | S040A | S060A | S100A | S100A | S125A | S150A | S200 | S250 | | | |
| 14D | 10" | 10/20 | S030 | S040A | S060A | S100A | S125A | S150A | S200 | S250 | S300 | S350 | | |
| 16D | 10" | 10/20 | S030 | S040A | S060A | S100A | S125A | S150A | S200 | S250 | S300 | S350 | | |
| 14D | 12" | 10/20 | S100A | S125A | S150A | S200 | S250 | S300 | S350 | S450A | | | | |
| 16D | 12" | 10/20 | S100A | S125A | S150A | S200 | S250 | S300 | S350 | S450A | | | | |
| 14D | 12" | 12/20 | S100A | S125A | S150A | S200 | S250 | S300 | S350 | S450A | | | | |
| 16D | 12" | 12/20 | S100A | S125A | S150A | S200 | S250 | S300 | S350 | S450A | | | | |
| 14D | 16" | 16/24 | S100A | S125A | S150A | S200 | S250 | S300 | S350 | S450A | S500A | S600A | S750A | S1000G |
| 16D | 16" | 16/24 | S100A | S125A | S150A | S200 | S250 | S300 | S350 | S450A | S500A | S600A | S750A | S1000G |
| 20B | 16" | 16/24 | S100A | S125A | S150A | S200 | S250 | S300 | S350 | S450A | S500A | S600A | S750A | S1000G |
| 22B | 16" | 16/24 | S100A | S125A | S150A | S200 | S250 | S300 | S350 | S450A | S500A | S600A | S750A | S1000G |

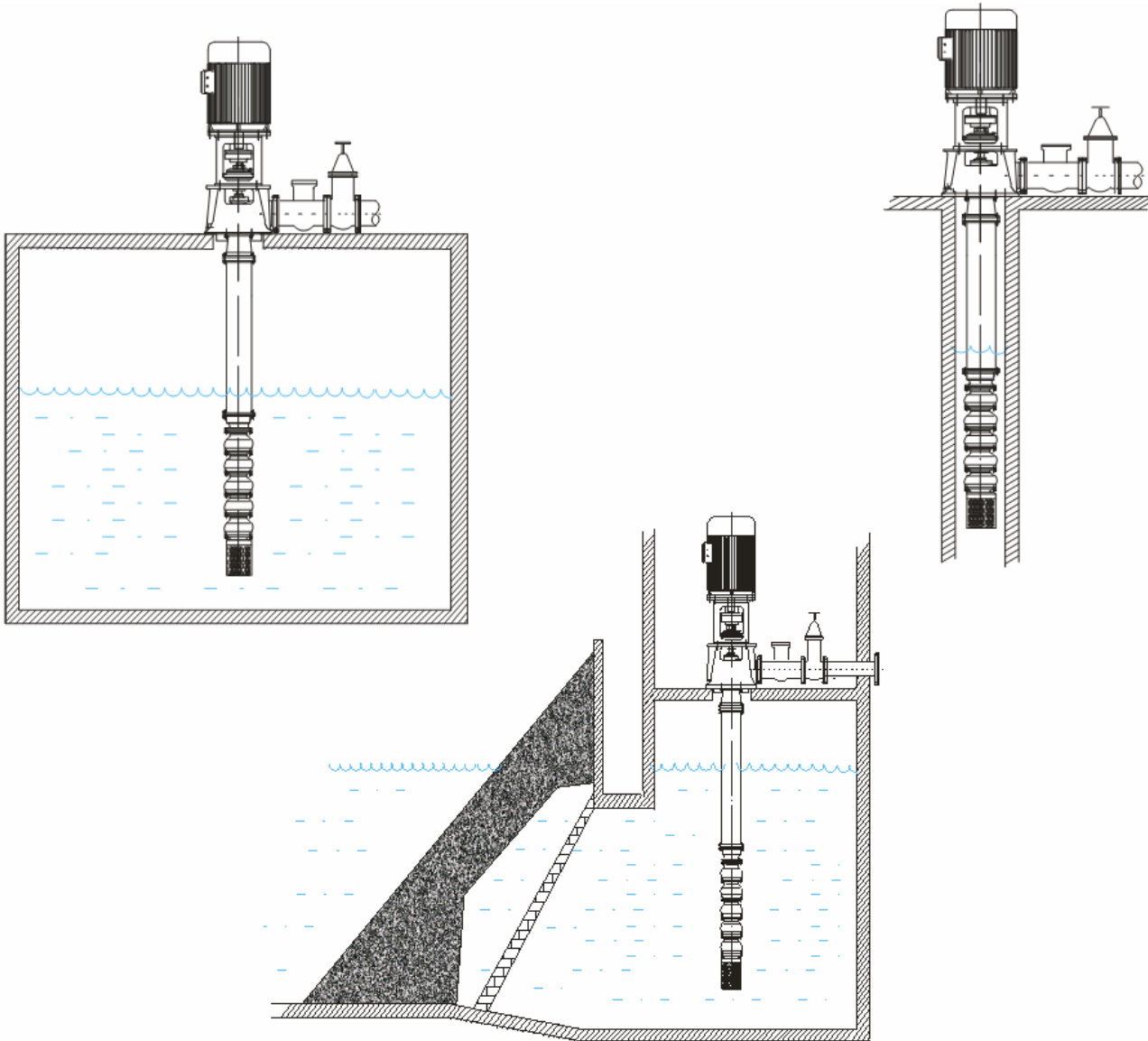
13. Coating

Single coat of 40 microns thickness water basis enamel with finish colour blue RAL 5010. Painted surface maximum temperature 70 °C. Other coatings upon request.

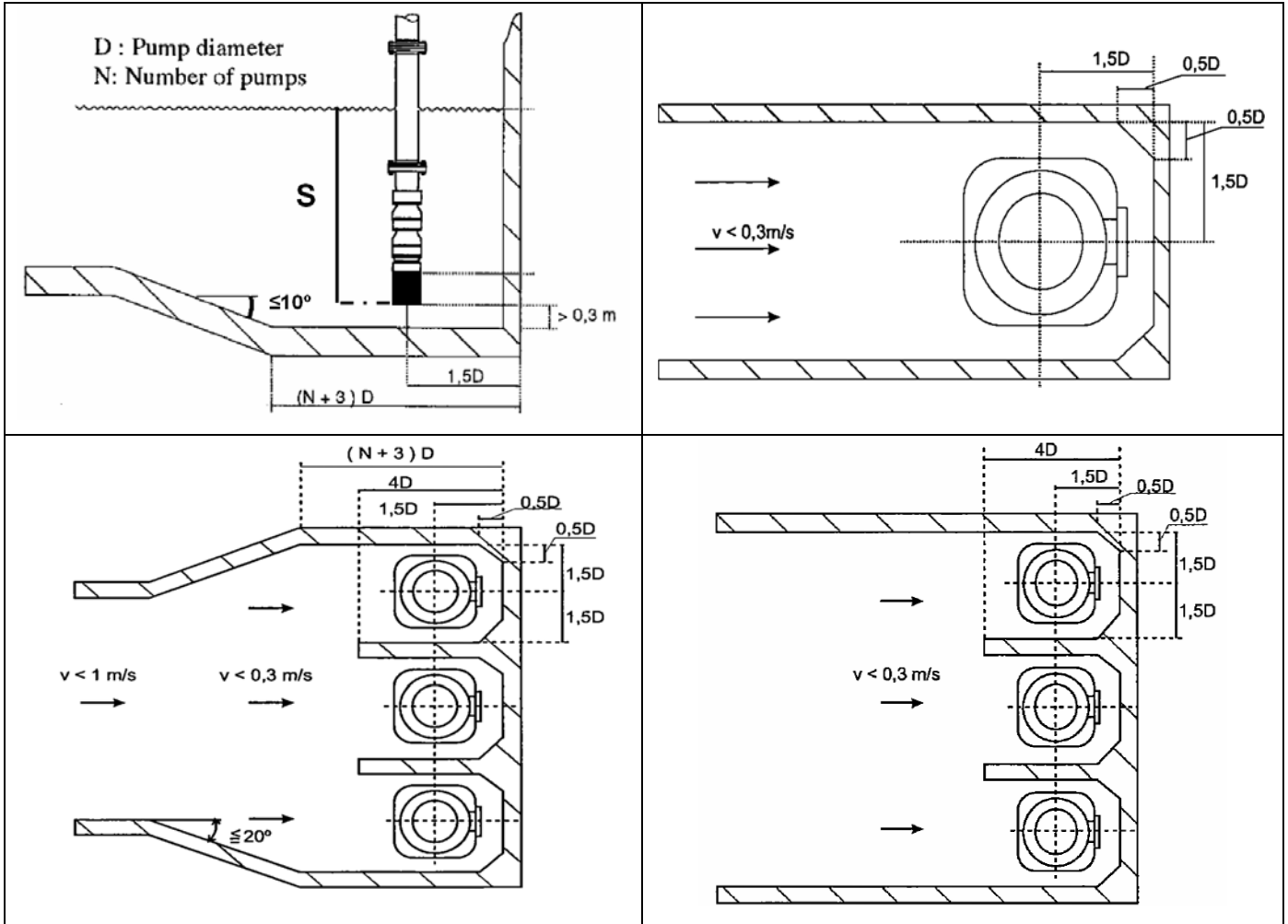
14. Recommended spare parts stock for two years continuous operation

| Ref. | Denomination | Number of pumps (including stand-by pumps) | | | | | | | 10 and more |
|------|--------------------------------|--------------------------------------------|---|---|---|-----|-----|-----|-------------|
| | | 1-2 | 3 | 4 | 5 | 6-7 | 8-9 | | |
| --- | Joints (set) | 2 | 3 | 4 | 5 | 6 | 7 | 90% | |
| 461 | Packing | 2 | 3 | 4 | 5 | 6 | 7 | 90% | |
| 320 | Bearing (set) | 1 | 1 | 2 | 2 | 2 | 3 | 30% | |
| 502 | Wear ring | 1 | 1 | 2 | 2 | 2 | 3 | 30% | |
| 507 | Deflector protection | 1 | 1 | 2 | 2 | 2 | 3 | 30% | |
| 922 | Impeller nut | 1 | 1 | 2 | 2 | 2 | 3 | 30% | |
| 932 | Circlip (set) | 1 | 1 | 2 | 2 | 2 | 3 | 30% | |
| 940 | Keys (set) | 1 | 1 | 2 | 2 | 3 | 4 | 50% | |
| 211 | Pump shaft | 1 | 1 | 2 | 2 | 2 | 3 | 30% | |
| 212 | Intermediate drive shaft (set) | 1 | 1 | 2 | 2 | 2 | 3 | 30% | |
| 230 | Impeller | 1 | 1 | 2 | 2 | 2 | 3 | 30% | |

15. Application sketches



Some diagrams of the layout of the pumps and the capture construction are indicated below.



This page has deliberately been left blank

This page has deliberately been left blank



KSB ITUR Spain, S.A.

P.O. Box 41 – 20800 ZARAUTZ (Gipuzkoa) Spain

Tel.: +34 943 899 899 – Fax +34 943 130 710

www.ksb-itur.es