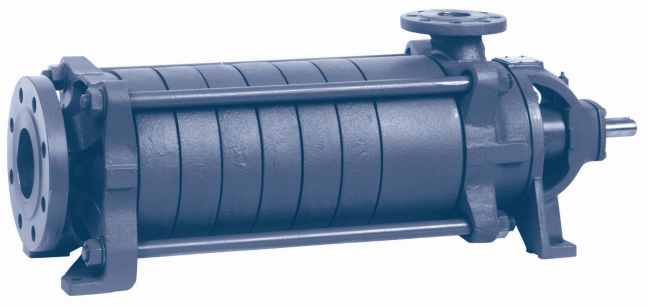
# Centrifugal Pumps
## Gas handling combi pump in segmental design

# UEA 5002 … 10015

## Technical Data

| | |
|---|---|
| Output: | max. 220 m³/h |
| Differential pressure: | max. 20 bar |
| Speed: | max. 3600 rpm |
| Temperature: | -40°C to +80°C |
| Casing pressure: | PN 40 up to size 8000<br>PN 25 size 10000 |
| Shaft sealing: | mechanical seal |
| Flange connections: | DIN EN 1092 PN 25 or PN 40<br>Option: ASME B 16.5 |
| Sense of rotation: | clockwise, when seen from the drive on the pump |
| Certification: | ATEX 94/9/EG, Ex II 2 G c T4-T5<br>GOST |



## Application

Gas handling centrifugal pumps of the series UEA are used for trouble-free handling of pure or turbid, not aggressive liquids, containing no solids.
The gas handling capability is used to handle mainly liquid gas (LPG) and other hydrocarbon liquidate reshipment points and large gas depots, fire extinguishing plants sprinkling and irrigation plants emptying of fuel trucks filling of high tanks, refueling cars.
Centrifugal pumps of the series UEA with special NPSH inducer stage are applied for trouble-free pumping under unfavorable conditions at suction side. A special priming stage is able to absorb eventually existing vapour from the suction side. The capability of the pumps in this series to handle liquids at the boiling point, allows a wide-ranging application when handling:

- LPG
- Hydrocarbon condensates
- Hydrocarbon liquefied gases

## Design

Horizontal centrifugal pumps of the segmental type with closed impellers and a suction stage. The suction stage is installed at discharge side. It is arranged in parallel to the last liquid handling stage and operates acc. to the sucking-through principle.
The design UEA has an axial inlet with NPSH inducer stage.
The axial thrust is compensated by single-impeller relief. The remaining axial thrust is compensated by antifriction bearings of sufficient size.
The vertically to the axis divided casings are sealed by O-rings and connected through external casing connection screws.

## Construction

**Casing pressure:**
max. 40 bar up to size 8000 from -40 °C to 120 °C
max. 25 bar up to size 10000 from -40 °C to 120 °C
Pressure stages for higher temperatures acc. DIN EN 764-1

**Please note:**
Technical rules and safety rules.
Casing pressure = zero delivery head + pos. suction pressure

**Position of the branches:**
Suction flange axially and discharge flange radially upwards.

**Flanges:**
At suction and discharge side the flanges correspond to DIN EN 1092 PN 25 and PN 40. Flange design with groove to DIN EN 1092 or bored to ASME B 16.5 possible.

**Hydraulics:**
Centrifugal hydraulic with special NPSH-impeller and gas priming stage.

**Bearings:**
At suction side a liquid surrounded sleeve bearing, at discharge side grease lubricated inclined ball bearings as per DIN 628. The designation of this construction:.A
First grease filling for antifriction bearing is made in the factory.

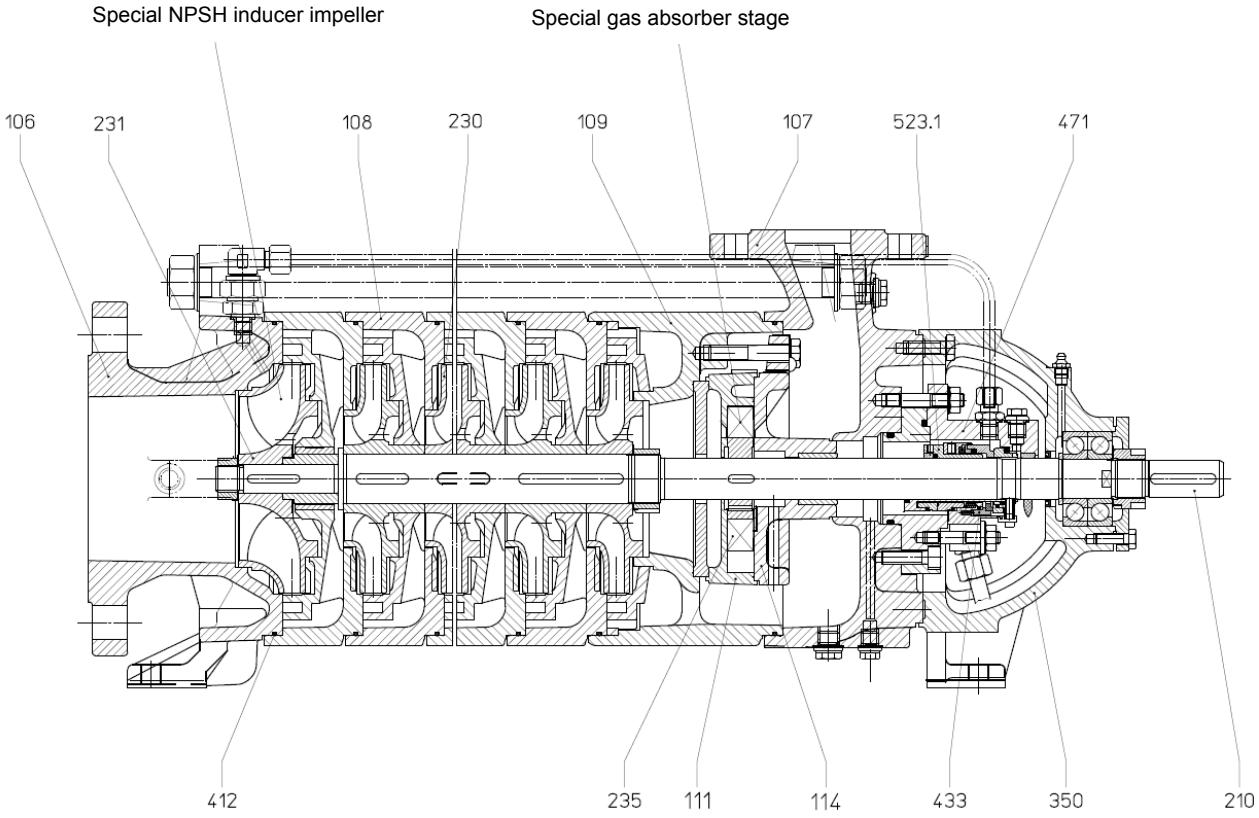
**Sense of rotation:**
Clockwise when looking at the pump from the drive end.

**Shaft sealing:**
The shaft can be sealed either by single mechanical seal or by double mechanical seal.

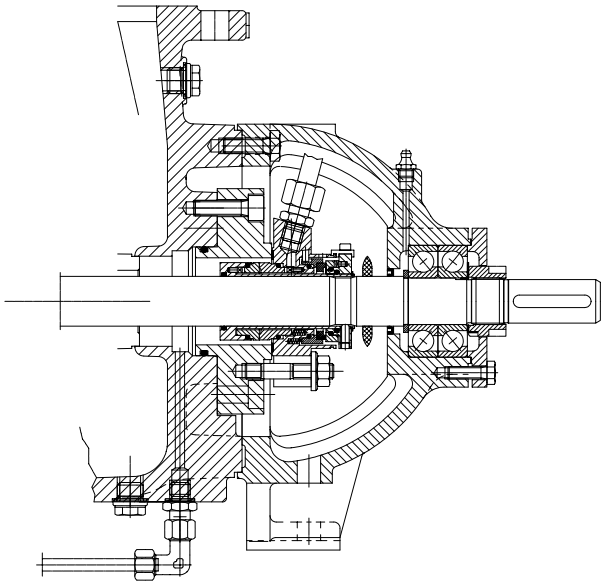
**Special for liquid gas:**

| | |
|---|---|
| Designation DNE: | Flowserve EUROPAC 610 (balanced, internal flushed) standard single mechanical seal with throttle bush for leakage control.<br>Temperature range: from -40 °C to 120 °C<br>max. 40 bar |
| Designation RBG: | Flowserve EUROPAC 610/610 (balanced, internal or external flushed), acc. API 682 Plan 52 in tandem arrangement<br>Temperature range: from -25 °C to 120 °C<br>max. 40 bar |
| Designation XEY: | Burgmann Cartex DE (balanced, external flushed) double mechanical seal in back to back arrangement acc. API 682 Plan 53 (optional Plan 52 for tandem arrangement)<br>Temperature range: from -40 °C to 120 °C<br>max. 25 bar |

## Sectional drawing and nomenclatures

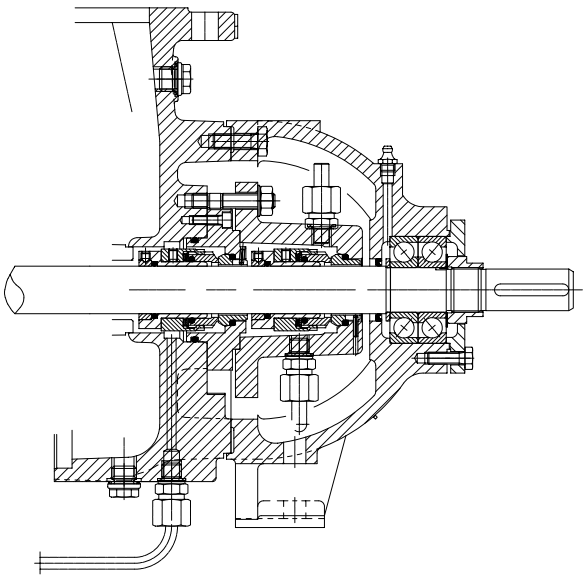



UEA with balanced single mechanical seal DNE with throttle bush



UEA with XEY, Cartex (PN25) double mechanicals seal

Arrangement:
'Back to back' API 682 plan 53 or optional
'Tandem' API 682 plan 52



UEA with RBG, (PN40) double mechanicals seal

Arrangement:
'Tandem' API 682 plan 52

## Material design:

| Item | COMPONENTS | | MATERIAL DESIGN | |
|---|---|---|---|---|
| | | | 1A | 2C |
| 106 | Suction casing | | EN-JS1025 - EN 1563 (0.7043) | 1.0619 - EN 10213 (GS-C25) |
| 107 | Discharge casing | | | |
| 108 | Stage casing | | | |
| 109 | Stage shell | | | |
| 111 | Suction stage (internal) | | EN-JL1040 - EN 1561 (0.6025) | |
| 114 | Side cannel casing | | | |
| 210 | Shaft | | 1.4122+QT - EN 10088-3 | |
| 230 | Impeller (internal) | | EN-JL2030 - EN 1561 (0.6022) | |
| 231 | NPSH impeller | | EN-JL2030 - EN 1561 (0.6022) | EN-JL2030 - EN 1561 (0.6022) |
| 235 | Vane wheel impeller | | CC483K-GS - EN 1982 (2.1052.01) | |
| 350 | Bearing casing | | EN-JL1040 - EN 1561 (0.6025) | |
| 412 | O-ring | | NBR 70 (standard) | NBR 70 (standard) |
| 433 | Shaft sealing | DNE | Chrome steal/carbon, NBR (SANGG) | |
| | | RBG | Chrome steal/carbon, NBR (2 x SANGG) | |
| | | XEY | Carbon graphit / SiC, NBR (AQ1PMG-AQ1PMG) | |
| 523 | Shaft sleeve at mechanical seal | | 1.4571 - EN 10088-3 | |

### Casing seal:

The casing is sealed by O-rings of NBR.

### Drive / Speed:

By commercial electric motors, construction type IM B3.

Observe the following max. speed dependent on the number of stages:

| series & size | max. speed | series & size | max. speed | series & size | max. speed | series & size | max. speed |
|---|---|---|---|---|---|---|---|
| UEA 5002 - 03 | 3600 | UEA 5002 - 10 | 3000 | UEA 5002 - 10 | 1800 | UEA 5002 - 10 | 1500 |
| UEA 6502 - 05 | | UEA 6502 - 07 | | UEA 6502 - 07 | | UEA 6502 - 07 | |
| | | UEA 8002 - 03 | | UEA 8002 - 09 | | UEA 8002 - 13 | |
| | | | | UEA 10002 - 08 | | UEA 10002 - 15 | |

Technical documentation for other programmes are available on request.

## Data regarding size

| series + size | | speed | hydraulics + bearings | shaft sealing | material design | flange design |
|---|---|---|---|---|---|---|
| UEA | | | A• hydraulic A with NPSH impeller 1<br>8002 - 8003<br>10002 - 10015<br><br>M• hydraulic A with NPSH impeller 1<br>5002 - 5010<br>6502 - 6507<br><br>•A two grease lubricated single row inclined ball bearings and one liquid surrounded sleeve bearing | Specially for liquefied gas<br><br>DNE Flowserve, balanced standard single mechanical, PN 40, t = -40 °C to 120 °C , seal with internal flushing, throttle bush with option to monitor leakage<br><br>RBG Flowserve balanced double mechanical seal (tandem). PN 40, t = -25 °C to 120 °C, seal with internal and external flushing (API 682 plan 52), option to monitor leakage<br><br>XEY Burgmann Cartex balanced double mechanical seal in back to back or tandem arrangement. Depending of external supplier seal with internal and external flushing with pumping rings PN 25, t = -40 °C to 120 °C, seal, (API 682 plan 52 and 53), option to monitor leakage | 1A -20°C to 80°C<br><br>cast iron with nodular cast iron EN-JS1025 - EN 1563 (0.7043 / (GGG 40.3)<br><br>O-ring: NBR 70 (standard)<br><br>2C -40°C to 80°C<br><br>cast steel 1.0619 - EN 10213 / (GS - C25)<br><br>O-ring: NBR 70 (special -40°C) | 1 flanges acc. DIN<br><br>F flanges acc. ASME (ANSI) |
| UEA | 5002 - 5010 | 1450 | MA | DNE<br>RBG<br>XEY | 1A<br>2C | 1<br>F |
| | 6502 - 6507 | | | | | |
| | 8002 - 8013 | | AA | | | |
| | 10002 - 10015 | | | | | |
| | 5002 - 5010 | 2900 | MA | | | |
| | 6502 - 6507 | | | | | |
| | 8002 - 8003 | | AA | | | |

| design | code |
|---|---|
| pump with free shaft end | 01 |
| pump with coupling, ready drilled at motor side and contact safety device for shaft coupling | 41 |
| as above, but pump and contact safety device for the shaft coupling mounted on base plate, incl. shims for pump or motor and 1 set of rag bolts | 53 |
| as above, but with motor e.g. 45 kW 3-phase AC motor (50 Hz, 400 V), at 1450 rpm | e.g. AB |

**Motor selection table for EEXd…..**

| motor n = 2900 rpm | | | motor n = 1450 rpm | | |
|---|---|---|---|---|---|
| kW | size | code | kW | size | Code |
| 15 | 160 M | TA | 3 | 100 L | LB |
| 18.5 | 160 L | UA | 4 | 112 M | MB |
| 22 | 180 M | VA | 5.5 | 132 S | NB |
| 30 | 200 L | XA | 7.5 | 132 M | PB |
| 37 | 200 L | YA | 11 | 160 M | SB |
| 45 | 225 M | AA | 15 | 160 L | UB |
| 55 | 250 M | BA | 18.5 | 180 M | VB |
| 75 | 280 S | CA | 22 | 180 L | WB |
| 90 | 280 M | DA | 30 | 200 L | XB |
| 110 | 315 S | EA | 37 | 225 S | ZB |
| 132 | 315 M | FA | 45 | 225 M | AB |
| 160 | 315 M | GA | 55 | 250 M | BB |
| | | | 75 | 280 S | CB |
| | | | 90 | 280 M | DB |
| | | | 110 | 315 S | EB |
| | | | | | FB |

**Example for ordering:**

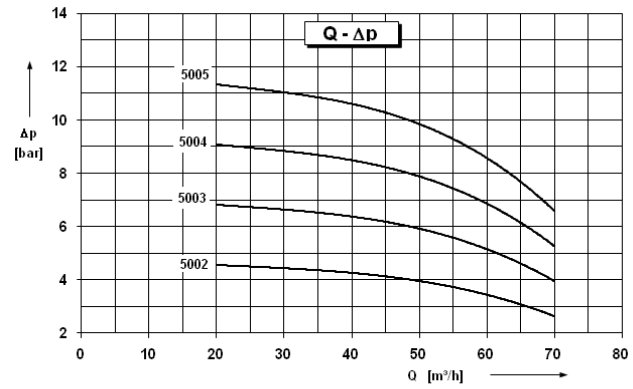
The size UEA· 8007 AA DNE 1A 1 with coupling, ready drilled at motor side and contact safety device for the shaft coupling has the complete order number: **UEA. 8007 AA DNE 1A 1 41**

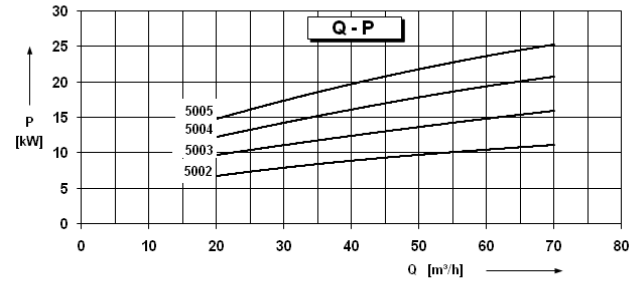
The size UEA· 8007 AA DNE 1A 1 as complete unit with 45 kW 3-phase AC motor, 1450 rpm, has the complete order number: **UEA. 8007 AA DNE 1A 1 AB**

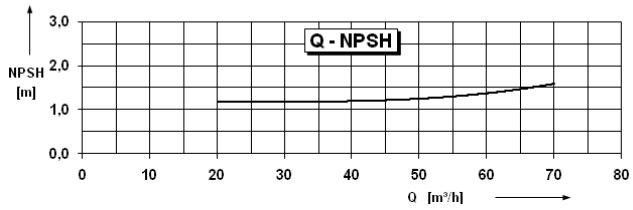
On delivery the point (•) in the fourth place of the type design will be replaced by a letter.
In case of ordering the designs 41 and 53 please indicate always the requested motor, in order that the coupling can be ready drilled at motor side, the suitable base plate can be selected and the appropriate shims can be attached.

## Characteristic curves ρ = 0,56 kg/dm³ n = 2900 rpm

UEA 5002 - 5005

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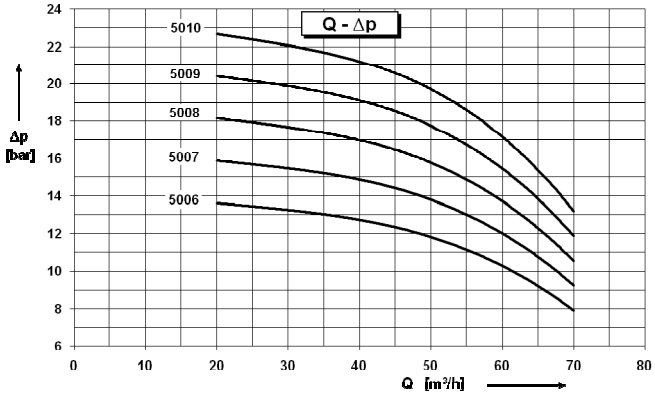
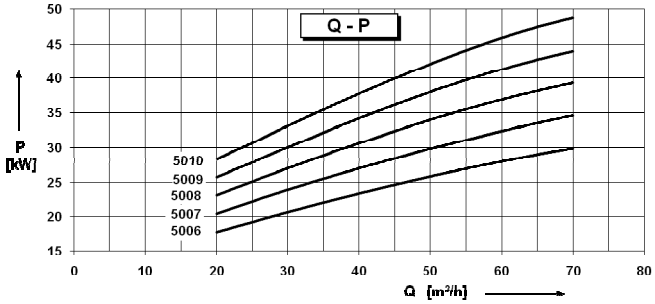
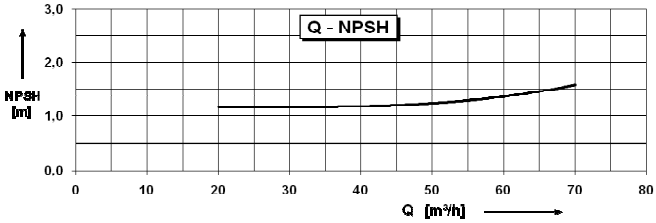
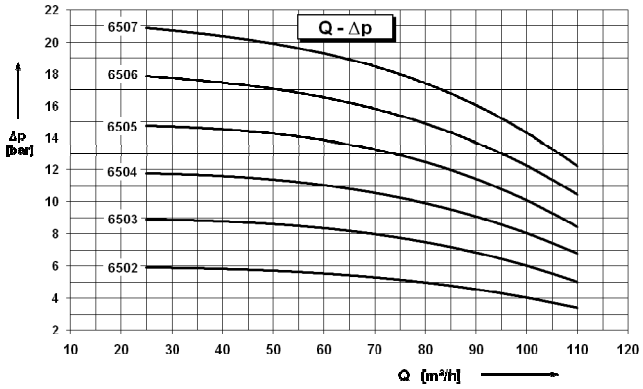
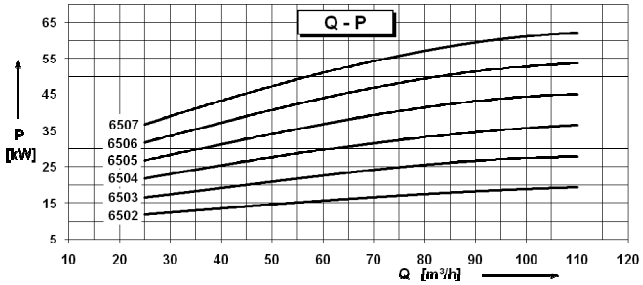


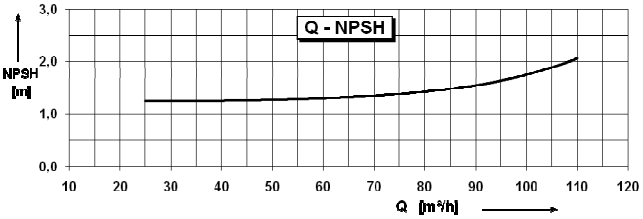



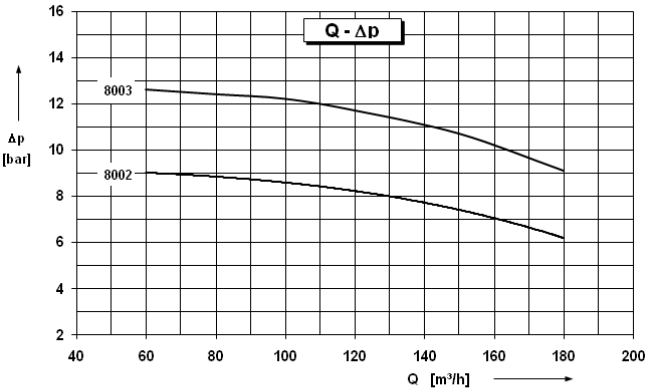

UEA 6502 - 6507

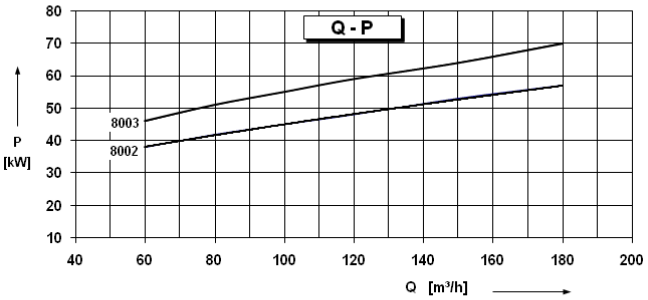


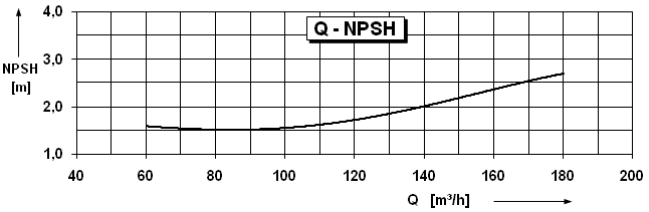




UEA 8002 - 8003

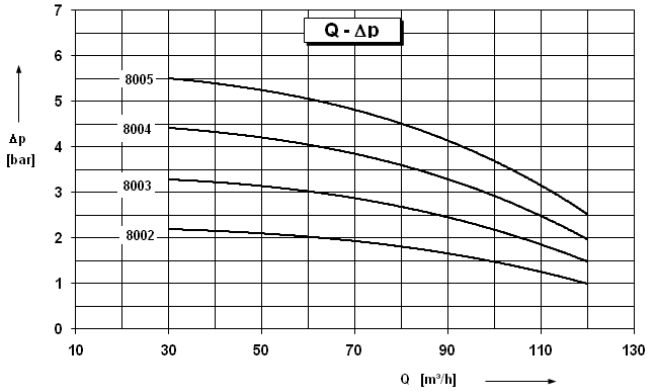


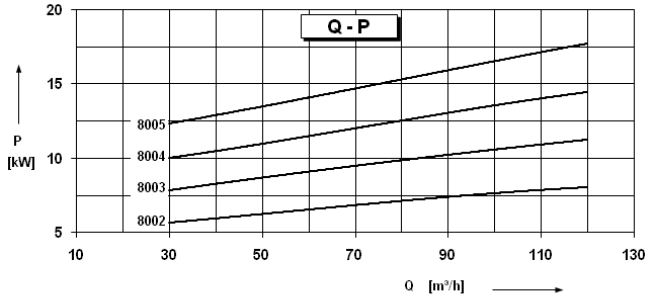



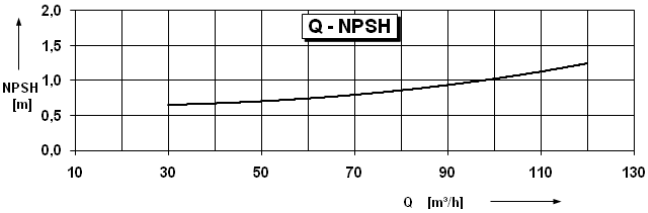



## Characteristic curves $\rho = 0{,}56$ kg/dm³ n = 1450 rpm

UEA 8002 - 8005

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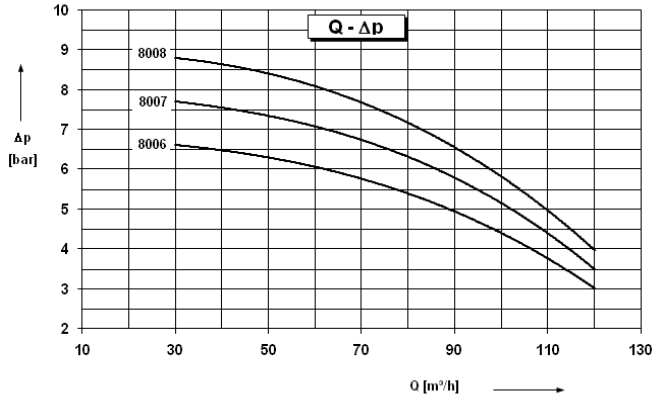


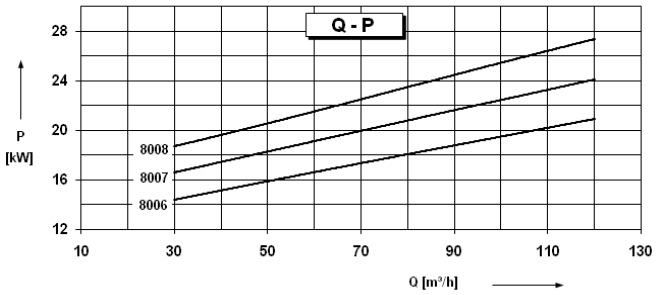


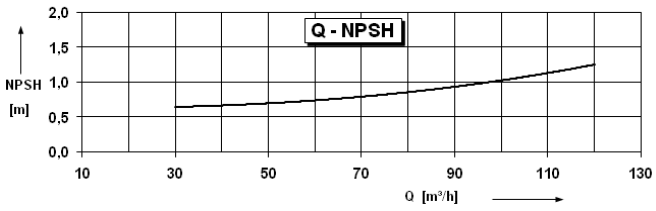


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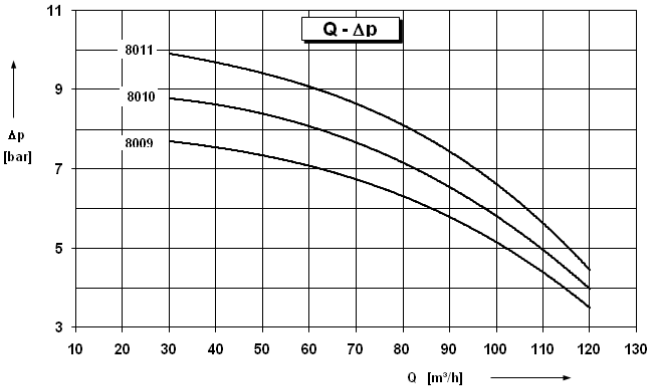


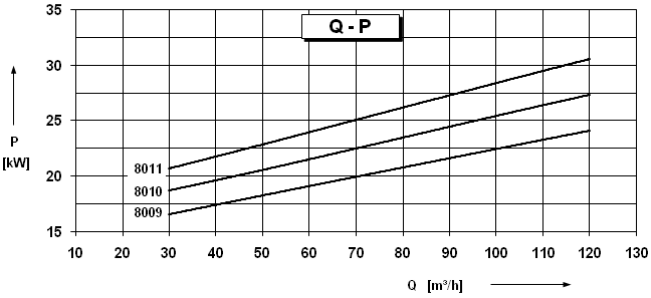


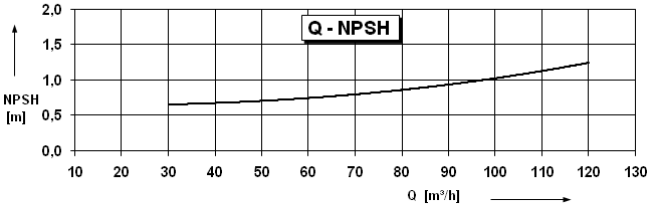


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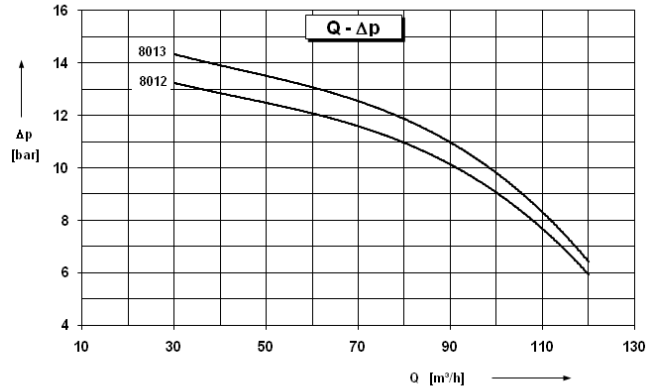
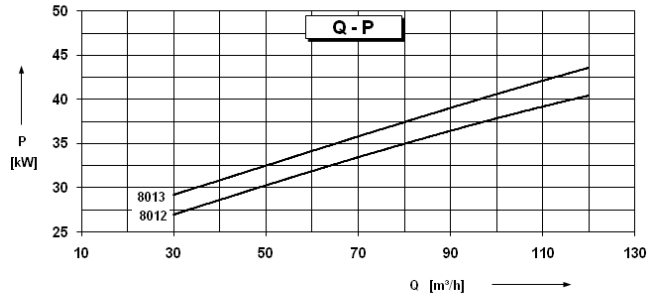
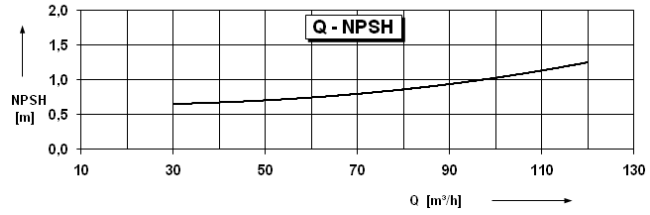
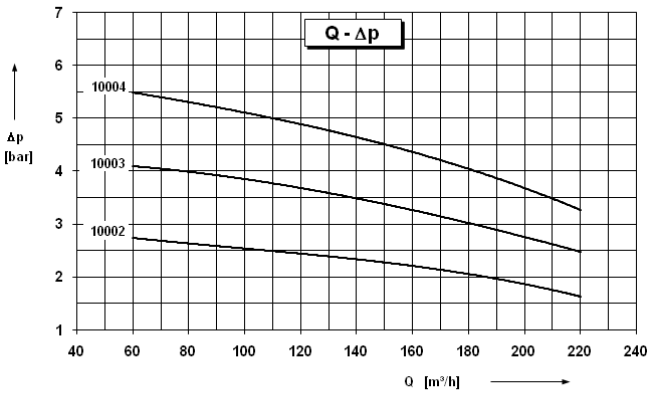


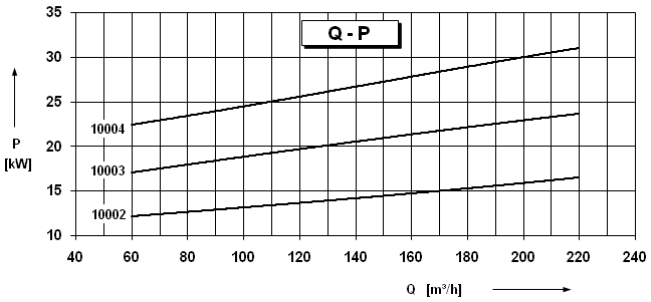



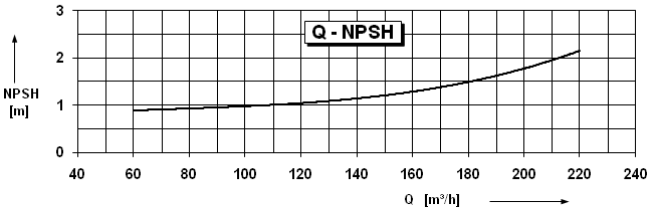



## Characteristic curves $\rho = 0{,}56$ kg/dm³ n = 1450 rpm

UEA 10002 - 10004

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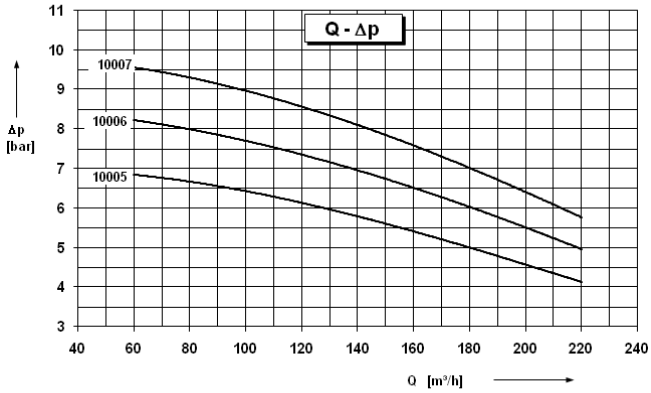


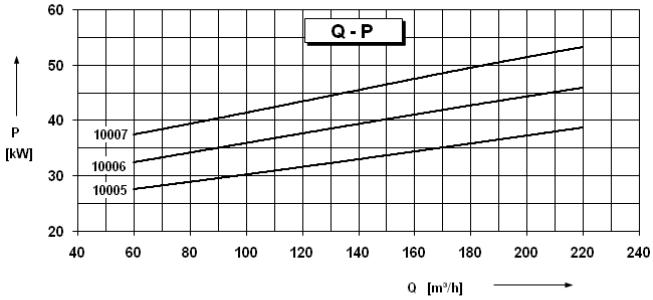


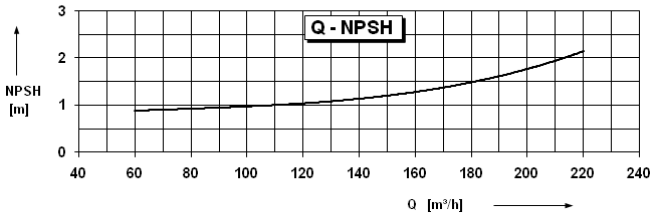


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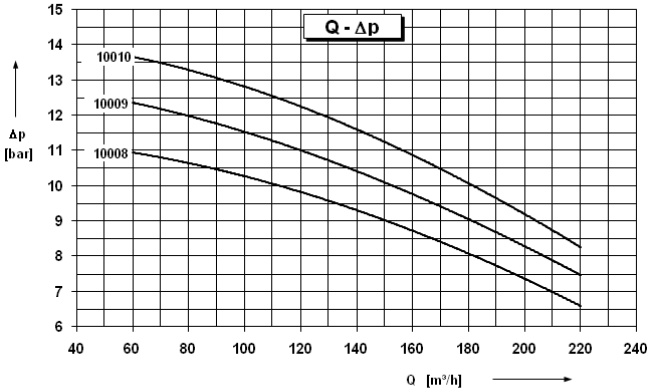


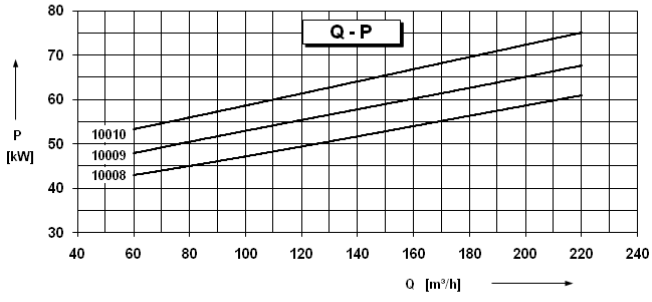


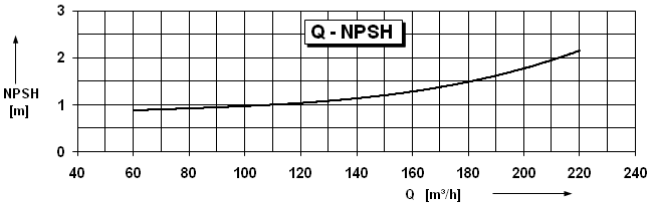


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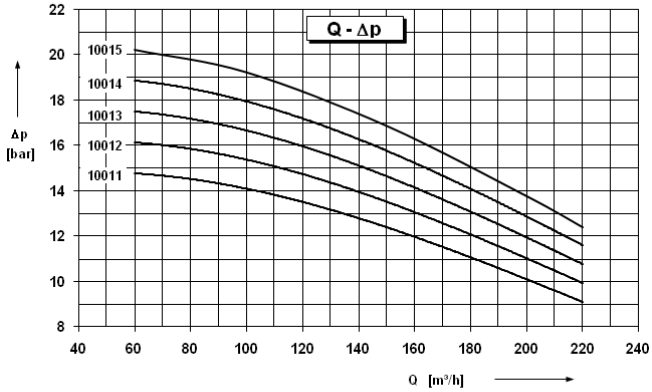
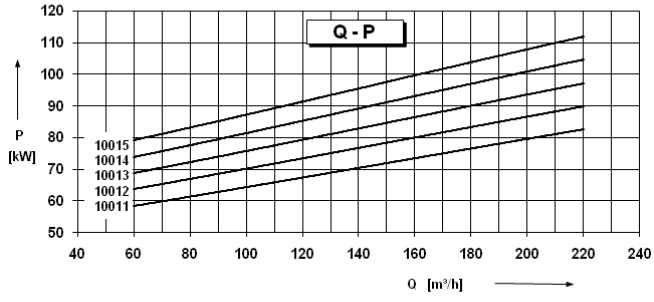
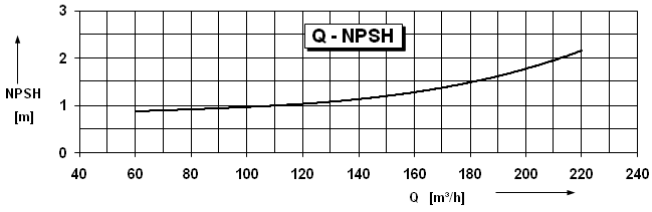
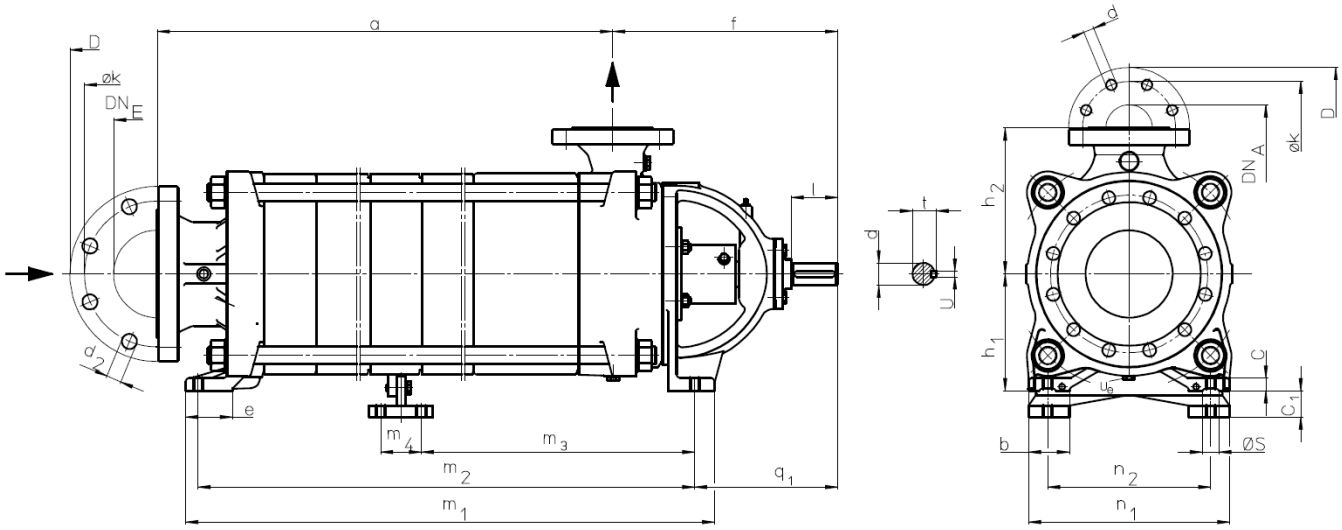


# Dimension table

Normal casing pressure: PN 40 for UEA 50 – 80, PN 25 for UEA 100




$u_e$ = connection for drain G3/8, for UEA 10 000 G1/2, $u_m$= connection for pressure gauge G3/8

Dimensions in mm

| size | $DN_A$ | $DN_E$ | b | c | e | f | $h_1$ | $h_2$ | $n_1$ | $n_2$ | s | $q_1$ | $d_{k6}$ | l | t | u |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5000 | 50 | 125 | 50 | 18 | 60 | 310* | 160 | 190 | 266 | 216 | 15 | 187* | 28 | 60 | 31 | 8 |
| 6500 | 65 | 125 | 60 | 18 | 70 | 358 | 180 | 215 | 314 | 254 | 15 | 233 | 32 | 80 | 35 | 10 |
| 8000 | 80 | 150 | 70 | 22 | 80 | 387 | 200 | 250 | 345 | 280 | 15 | 246 | 38 | 80 | 41 | 10 |
| 10000 | 100 | 200 | 80 | 25 | 100 | 442 | 250 | 300 | 400 | 318 | 18 | 276 | 42 | 110 | 45 | 12 |

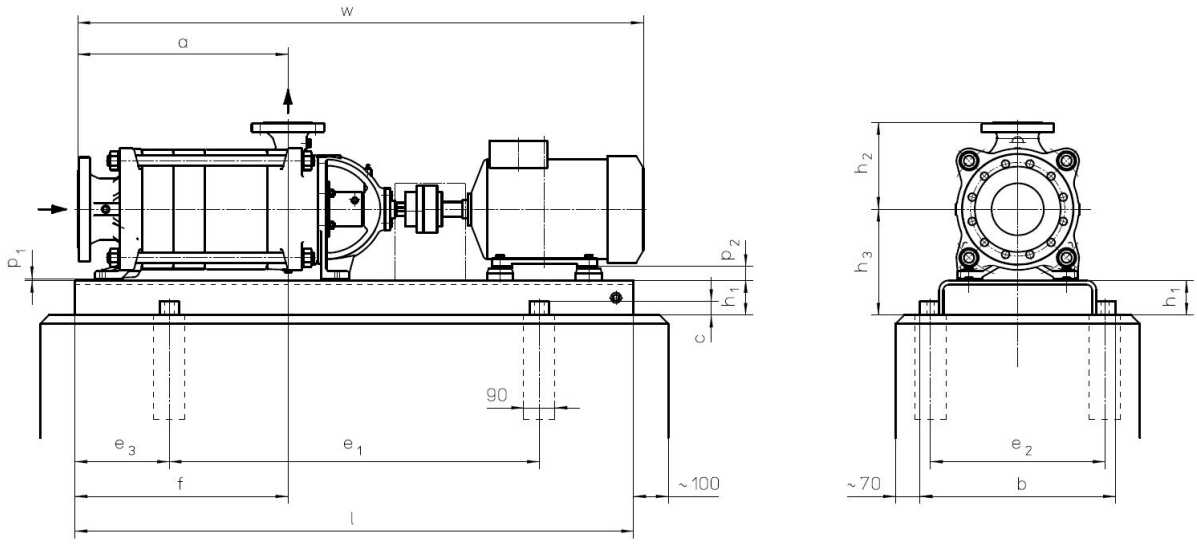
* UEA 05009 and 05010, f = 357,5, $q_1$ = 234,5

| size | a | $m_1$ | $m_2$ | $m_3$ | weight kg |
|---|---|---|---|---|---|
| 5002 | 371 | 484 | 446 | - | 105 |
| 5003 | 433 | 546 | 508 | - | 119 |
| 5004 | 495 | 608 | 570 | - | 133 |
| 5005 | 557 | 670 | 632 | - | 147 |
| 5006 | 619 | 732 | 694 | - | 161 |
| 5007 | 681 | 794 | 756 | - | 175 |
| 5008 | 743 | 856 | 818 | - | 189 |
| 5009 | 867 | 980 | 942 | 525 | 217 |
| 5010 | 929 | 1042 | 1004 | 587 | 231 |
| 6502 | 444 | 550 | 510 | - | 139 |
| 6503 | 519 | 625 | 585 | - | 160 |
| 6504 | 594 | 700 | 660 | - | 181 |
| 6505 | 669 | 775 | 735 | - | 202 |
| 6506 | 744 | 850 | 810 | - | 223 |
| 6507 | 819 | 925 | 885 | - | 244 |
| 8002 | 512 | 638 | 583 | - | 191 |
| 8003 | 602 | 728 | 673 | - | 221 |
| 8004 | 692 | 818 | 763 | - | 251 |
| 8005 | 782 | 908 | 853 | - | 281 |
| 8006 | 872 | 998 | 943 | - | 311 |
| 8007 | 962 | 1088 | 1033 | - | 341 |
| 8008 | 1052 | 1178 | 1123 | - | 371 |
| 8009 | 1142 | 1268 | 1213 | - | 401 |
| 8010 | 1322 | 1448 | 1393 | 739.5 | 455 |
| 8011 | 1412 | 1538 | 1483 | 739.5 | 485 |
| 8012 | 1502 | 1628 | 1573 | 829.5 | 515 |
| 8013 | 1592 | 1718 | 1663 | 919.5 | 545 |
| $m_4$: 70mm (only for size 80) | | | | | |

| size | a | $m_1$ | $m_2$ | $m_3$ | weight kg |
|---|---|---|---|---|---|
| 10002 | 581 | 728 | 650 | - | 289 |
| 10003 | 691 | 838 | 760 | - | 337 |
| 10004 | 801 | 948 | 870 | - | 385 |
| 10005 | 911 | 1058 | 980 | - | 433 |
| 10006 | 1021 | 1168 | 1090 | - | 481 |
| 10007 | 1131 | 1278 | 1200 | - | 529 |
| 10008 | 1241 | 1388 | 1310 | - | 577 |
| 10009 | 1351 | 1498 | 1420 | - | 625 |
| 10010 | 1571 | 1718 | 1640 | 889 | 710 |
| 10011 | 1681 | 1828 | 1750 | 889 | 758 |
| 10012 | 1791 | 1938 | 1860 | 999 | 806 |
| 10013 | 1901 | 2048 | 1970 | 1109 | 854 |
| 10014 | 2011 | 2158 | 2080 | 999 | 902 |
| 10015 | 2121 | 2268 | 2190 | 1219 | 950 |

| **Flange connections to DIN EN 1092** | | | | | | |
|---|---|---|---|---|---|---|
| **PN 40** | | | | | | |
| $DN_{A,E}$ | 50 | 65 | 80 | 100 | 125 | 150 |
| D | 165 | 185 | 200 | 235 | 270 | 300 |
| k | 125 | 145 | 160 | 190 | 220 | 250 |
| $d_2$ x quan. | 18 x 4 | 18 x 8 | 18 x 8 | 22 x 8 | 26 x 8 | 26 x 8 |
| **PN 25** | | | | | | |
| $DN_{A,E}$ | 100 | 200 | | | | |
| D | 235 | 360 | | | | |
| k | 190 | 310 | | | | |
| $d_2$ x quan. | 22 x 8 | 26 x 12 | | | | |

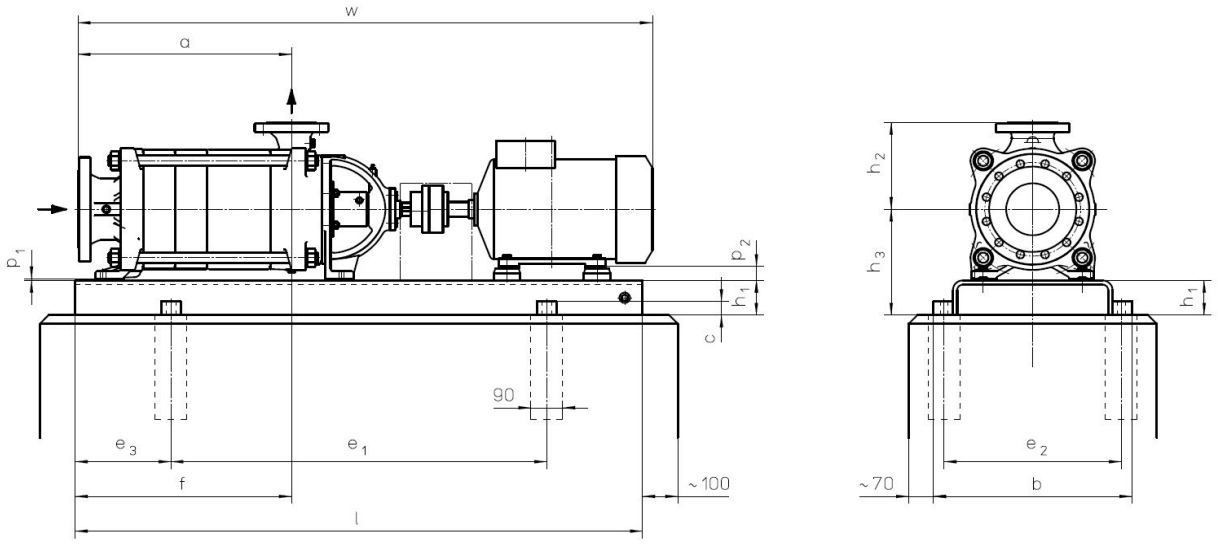
# Dimension table




Dimensions in mm

| Pump size | motor | | a | b | c | $e_1$ | $e_2$ | $e_3$ | f | $h_1$ | $h_2$ | $h_3$ | l | $p_1$ | $p_2$ | w | Rag bolt | weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | kW | size | | | | | | | | | | | | | | | | |
| 5002 | 15 | 160M | 371 | 540 | 30 | 840 | 490 | 215 | 381 | 80 | 190 | 245 | 1270 | 5 | 5 | 1275 | M20x250 | 289 |
| 5003 | 18.5 | 160L | 433 | 610 | 35 | 940 | 550 | 240 | 443 | 100 | 190 | 265 | 1420 | 5 | 5 | 1337 | M24x400 | 413 |
| | 22 | 180M | | | | | | | | | | 295 | | 25 | | 1467 | | 426 |
| 5004 | 18.5 | 160L | 495 | 610 | 35 | 940 | 550 | 240 | 505 | 100 | 190 | 265 | 1420 | 5 | 5 | 1439 | M24x400 | 426 |
| | 22 | 180M | | | | | | | | | | 295 | | 25 | | 1529 | | 440 |
| | 30 | 200L | | 560 | 40 | 1060 | 500 | 270 | | | | 305 | 1600 | 45 | 5 | 1584 | M24x400 | 502 |
| 5005 | 30 | 200L | 557 | 560 | 40 | 1060 | 500 | 270 | 567 | 100 | 190 | 305 | 1600 | 45 | 5 | 1646 | M24x400 | 516 |
| | 45 | 225M | | 660 | 35 | | 600 | 280 | | | | 330 | 1620 | 70 | | 1676 | | 638 |
| 5006 | 22 | 180M | 619 | 560 | 40 | 1060 | 500 | 270 | 629 | 100 | 190 | 285 | 1600 | 25 | 5 | 1653 | M24x400 | 453 |
| | 30 | 200L | | | | | | | | | | 305 | | 45 | | 1708 | | 530 |
| | 37 | 200L | | | | | | | | | | | | | | | | 550 |
| | 45 | 225M | | 660 | 35 | 1060 | 600 | 280 | 629 | 100 | 190 | 330 | 1620 | 70 | 5 | 1738 | M24x400 | 652 |
| 5007 | 30 | 200L | 681 | 560 | 40 | 1200 | 500 | 300 | 691 | 100 | 190 | 305 | 1800 | 45 | 5 | 1770 | M24x400 | 555 |
| | 37 | 200L | | | | | | | | | | | | | | | | 575 |
| | 45 | 225M | | 730 | 40 | 1200 | 670 | 310 | | | | 330 | 1820 | 70 | | 1800 | | 696 |
| 5008 | 45 | 225M | 743 | 730 | 40 | 1200 | 670 | 310 | 753 | 100 | 190 | 330 | 1820 | 70 | 5 | 1862 | M24x400 | 711 |
| 5009 | 55 | 250M | 867 | 740 | 40 | 2x700 | 690 | 300 | 877 | 100 | 190 | 355 | 2000 | 95 | 5 | 2159 | M24x400 | 843 |
| 6502 | 22 | 180M | 444 | 610 | 35 | 940 | 550 | 240 | 454 | 100 | 215 | 285 | 1420 | 5 | 5 | 1526 | M24x400 | 437 |
| 6503 | 30 | 200L | 519 | 660 | 35 | 1060 | 600 | 280 | 529 | 100 | 215 | 305 | 1620 | 25 | 5 | 1656 | M24x400 | 554 |
| 6504 | 30 | 200L | 594 | 660 | 35 | 1060 | 600 | 280 | 604 | 100 | 215 | 305 | 1620 | 25 | 5 | 1731 | M24x400 | 575 |
| | 45 | 225M | | 740 | 40 | | 690 | 270 | | | | 330 | 1600 | 50 | | 1761 | | 686 |
| | 55 | 250M | | | | 1200 | | 300 | | | | 355 | 1800 | 75 | | 1886 | | 792 |
| 6505 | 45 | 225M | 669 | 740 | 40 | 1200 | 690 | 300 | 679 | 100 | 215 | 330 | 1800 | 50 | 5 | 1836 | M24x400 | 749 |
| | 55 | 250M | | | | | | | | | | 355 | | 75 | | 1961 | | 813 |
| 6506 | 55 | 250M | 744 | 740 | 40 | 2x700 | 690 | 300 | 754 | 100 | 215 | 355 | 2000 | 75 | 5 | 2036 | M24x400 | 856 |
| 6507 | 75 | 280S | 819 | 740 | 40 | 2x700 | 690 | 300 | 829 | 100 | 215 | 390 | 2000 | 110 | 10 | 2186 | M24x400 | 1084 |
| 8002 | 15 | 160L | 512 | 610 | 35 | 940 | 550 | 240 | 512 | 100 | 250 | 305 | 1420 | 5 | 45 | 1532 | M24x400 | 421 |
| | 75 | 280S | | 740 | 40 | 1200 | 690 | 300 | 522 | | | 385 | 1800 | 85 | 5 | 1911 | | 1013 |
| 8003 | 15 | 160L | 602 | 560 | 40 | 1060 | 500 | 270 | 612 | 100 | 250 | 305 | 1600 | 5 | 45 | 1622 | M24x400 | 442 |
| | 75 | 280S | | 740 | 40 | 2x700 | 690 | 300 | | | | 385 | 2000 | 85 | 5 | 1998 | | 1075 |
| | 90 | 280M | | | | | | | | | | | | | | | | 1105 |
| 8004 | 15,5 | 180M | 692 | 560 | 40 | 1200 | 500 | 300 | 702 | 100 | 250 | 305 | 1800 | 5 | 25 | 1802 | M24x400 | 554 |
| | 22 | 180L | | | | | | | | | | | | | | | | 579 |
| 8005 | 22 | 180L | 782 | 560 | 40 | 1200 | 500 | 300 | 792 | 100 | 250 | 305 | 1800 | 5 | 25 | 1892 | M24x400 | 609 |
| 8006 | 30 | 200L | 872 | 740 | 40 | 2x700 | 690 | 300 | 882 | 100 | 250 | 305 | 2000 | 5 | 5 | 2037 | M24x400 | 782 |
| 8007 | 30 | 200L | 962 | 740 | 40 | 2x700 | 690 | 300 | 972 | 100 | 250 | 305 | 2000 | 5 | 5 | 2127 | M24x400 | 812 |
| 8008 | 37 | 225S | 1052 | 740 | 40 | 2x750 | 690 | 370 | 1062 | 100 | 250 | 330 | 2240 | 30 | 5 | 2282 | M24x400 | 964 |
| 8009 | 37 | 225S | 1142 | 740 | 40 | 2x750 | 690 | 370 | 1152 | 100 | 250 | 330 | 2240 | 30 | 5 | 2372 | M24x400 | 964 |
| | 45 | 225M | | | | | | | | | | | | | | | | 994 |
| | 55 | 250M | | | | 2x830 | | 420 | | | | 355 | 2500 | 55 | 5 | 2465 | | 1174 |
| 8010 | 45 | 225M | 1322 | 740 | 40 | 2x830 | 690 | 420 | 1242 | 100 | 250 | 355 | 2500 | 55 | 5 | 2555 | M24x400 | 1264 |
| 8011 | 45 | 225M | 1412 | 740 | 40 | 2x830 | 690 | 420 | 1332 | 100 | 250 | 355 | 2500 | 55 | 5 | 2645 | M24x400 | 1294 |

## Dimension table




Dimensions in mm

| Pump size | motor | | a | b | c | $e_1$ | $e_2$ | $e_3$ | f | $h_1$ | $h_2$ | $h_3$ | l | $p_1$ | $p_2$ | w | rag bolt | weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | kW | size | | | | | | | | | | | | | | | | |
| 10002 | 22 | 180M | 581 | 560 | 40 | 1200 | 500 | 300 | 591 | 100 | 300 | 355 | 1800 | 5 | 75 | 1747 | M24x400 | 608 |
| 10003 | 30 | 200L | 691 | 560 | 40 | 1200 | 500 | 300 | 701 | 100 | 300 | 355 | 1800 | 5 | 55 | 1906 | M24x400 | 709 |
| | 45 | 225M | | 740 | | 2x700 | 690 | | | | | | 2000 | | 30 | 1972 | | 891 |
| 10004 | 37 | 225S | 801 | 740 | 40 | 2x700 | 690 | 300 | 811 | 100 | 300 | 355 | 2000 | 5 | 30 | 2082 | M24x400 | 939 |
| | 45 | 225M | | | | | | | | | | | | | | | | 969 |
| 10005 | 45 | 225M | 911 | 740 | 40 | 2x700 | 690 | 350 | 921 | 100 | 300 | 355 | 2100 | 5 | 30 | 2192 | M24x400 | 1003 |
| 10006 | 45 | 225M | 1021 | 740 | 40 | 2x750 | 690 | 370 | 1031 | 100 | 300 | 355 | 2240 | 5 | 30 | 2302 | M24x400 | 1065 |
| | 55 | 250M | | | | | | | | | | | | | 5 | 2397 | | 1206 |
| | 75 | 280S | | | | 2x830 | | 420 | | | | 385 | 2500 | 35 | | 2472 | | 1408 |
| 10007 | 55 | 250M | 1131 | 740 | 40 | 2x830 | 690 | 420 | 1141 | 100 | 300 | 355 | 2500 | 5 | 5 | 2507 | M24x400 | 1329 |
| | 75 | 280S | | | | | | | | | | 385 | | 35 | | 2582 | | 1531 |
| 10008 | 75 | 280S | 1241 | 740 | 40 | 2x830 | 690 | 420 | 1251 | 100 | 300 | 385 | 2500 | 35 | 5 | 2692 | M24x400 | 1529 |
| | 90 | 280M | | | | | | | | | | | | | | | | 1579 |

Other designs on request.

For additional details about the pump and the pump set please use the catalogue „Accessories UEA“.

Any changes in the interest of the technical development are reserved.

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