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## SPECIFICATION

60Hz

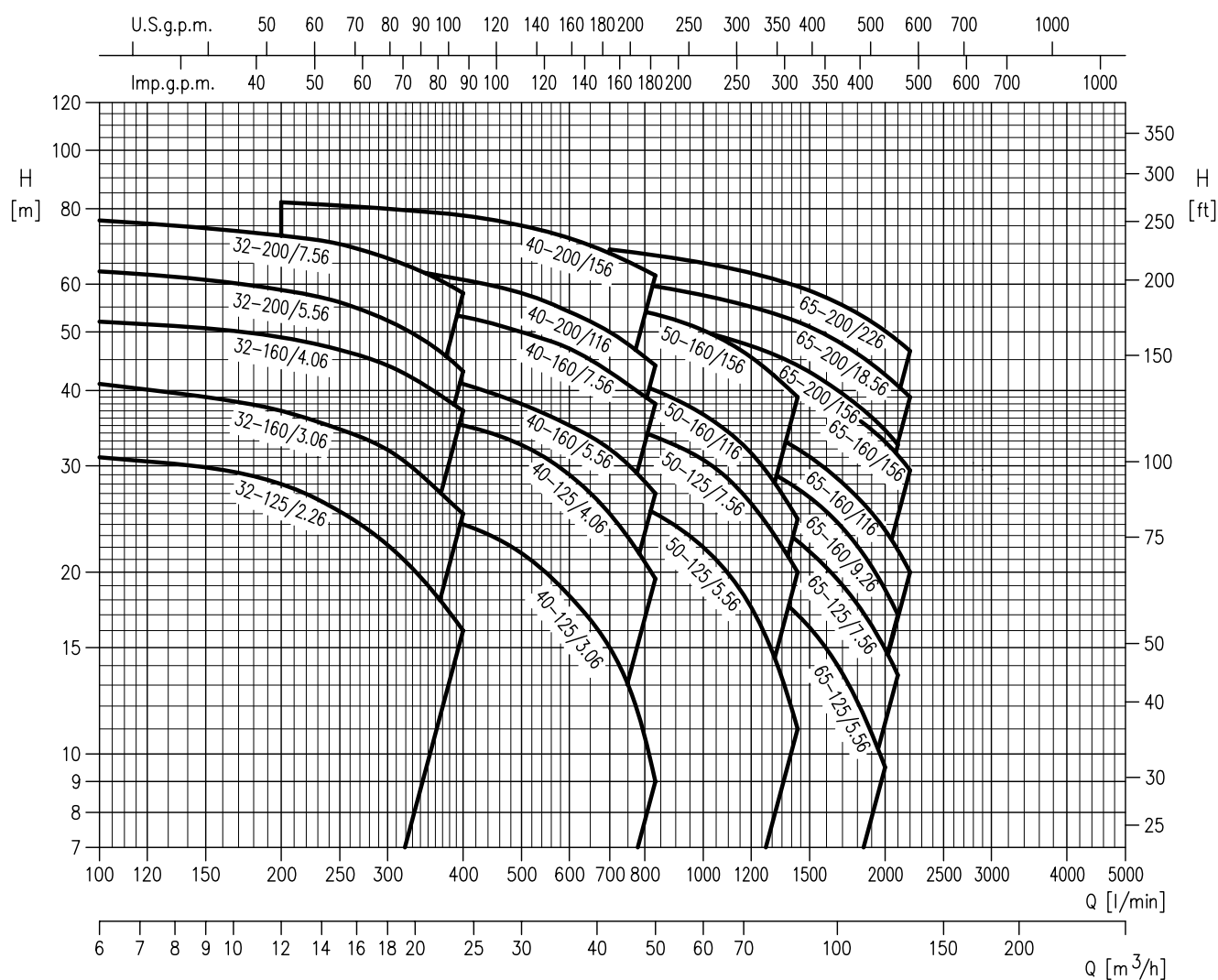
Rev. A

| PUMP                           |                          |                                                                                                                                                                   |
|--------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Liquid Handled                 | Type of liquid           | Clean water                                                                                                                                                       |
|                                | Working temperature [°C] | -5<br>+90 standard version<br>+110 H, HS, HW, HSW version<br>+120 E version                                                                                       |
| Maximum working pressure [MPa] |                          | 1                                                                                                                                                                 |
| Construction                   | Impeller                 | Closed centrifugal type for 32, 40, 50 series<br>Reinforced laser welding for 40-200/116, 50-200/156<br>Closed centrifugal three dimensional blades for 65 series |
|                                | Shaft seal type          | Mechanical seal                                                                                                                                                   |
|                                | Bearing                  | Sealed ball bearing                                                                                                                                               |
| Pipe Connection                | Suction                  | Flange DN 50, 65 according to EN 1092-2<br>Flange DN 80 according to UNI 2236-67 (4 holes)                                                                        |
|                                | Discharge                | Flange DN 32, 40, 50, 65 according to EN 1092-2                                                                                                                   |
| Material                       | Casing                   | Cast iron EN-GJL-250-EN 1561                                                                                                                                      |
|                                | Impeller                 | AISI 304 (32, 40, 50 series)<br>AISI 316 made by precision casting (65 series)                                                                                    |
|                                | Shaft seal               | Ceramic/Carbon/NBR (see Optionals on pag. 307-310)                                                                                                                |
|                                | Shaft                    | AISI 304 (wet extension)                                                                                                                                          |
|                                | Bracket                  | Aluminium/Cast iron                                                                                                                                               |
| Accessory                      | Counterflange            | DN 32, 40, 50, 65, 80 (see pag. 315)                                                                                                                              |
| Applicable standard of test    |                          | ISO 9906 - Annex A                                                                                                                                                |

| MOTOR                              |                        |                                                                              |                                                                  |
|------------------------------------|------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------|
| Type                               | 3D                     | 3DS                                                                          | 3DP                                                              |
|                                    | Electric - TEFC        |                                                                              |                                                                  |
|                                    | Three Phase            |                                                                              |                                                                  |
| No. of Poles                       | 2                      |                                                                              |                                                                  |
| Rotation speed                     | [min <sup>-1</sup> ]   | ≈ 3500                                                                       |                                                                  |
| Insulation Class                   | F                      | F (class B fot temperature rise)                                             |                                                                  |
| Protection degree (CEI EN 60034-5) | IP 55                  |                                                                              |                                                                  |
| Power rating                       | [kW]                   | 2.2 ÷ 22                                                                     |                                                                  |
|                                    | [HP]                   | 3.0 ÷ 30                                                                     |                                                                  |
| Frequency                          | [Hz]                   | 60                                                                           |                                                                  |
| Voltage                            | [V]                    | 220/380-460 ±10%<br>(up to 4.0 kW)<br>380-460/660 ±10%<br>(5.5 kW and above) | 265/460 ±10%<br>(up to 4.0 kW)<br>460 ±10%<br>(5.5 kW and above) |
| Over load protection               | Provided by the user   |                                                                              |                                                                  |
| Casing material                    | Aluminium              |                                                                              |                                                                  |
| Motor support                      | Cast iron - Alluminium |                                                                              |                                                                  |
| Dimensions of cable entry          | PG13.5<br>PG16<br>PG21 | M20x1.5, M25x1.5<br>M32x1.5, M40x1.5                                         |                                                                  |
| Flange mount (IEC motor)           | /                      | IM B5<br>(up to 2.2 kW)<br>IM B35<br>(3.0 kW and above)                      | IM B3                                                            |

**SELECTION CHART****60Hz**

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## SELECTION CHART

60Hz

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## 3D SERIES 32 SIZE

| Pump type   | kW  | HP  | l/min 0 | 100  | 150  | 200  | 250  | 300  | 350  | 400 |
|-------------|-----|-----|---------|------|------|------|------|------|------|-----|
|             |     |     | m³/h 0  | 6    | 9    | 12   | 15   | 18   | 21   | 24  |
| 32-125/2.26 | 2.2 | 3   | 32.7    | 32.5 | 31.4 | 29.6 | 27.2 | 24.4 | 21.4 | 18  |
| 32-160/3.06 | 3   | 4   | 42      | 41.5 | 40   | 38.4 | 35.9 | 32.8 | 29.3 | 25  |
| 32-160/4.06 | 4   | 5.5 | 53.5    | 53   | 51.5 | 49.5 | 47   | 44.5 | 41.5 | 38  |
| 32-200/5.56 | 5.5 | 7.5 | 64      | 62.5 | 61.5 | 59   | 56.5 | 53.5 | 50   | 46  |
| 32-200/7.56 | 7.5 | 10  | 75.5    | 74   | 72.5 | 70.5 | 68.5 | 65   | 61.5 | 58  |

## 3D SERIES 40 SIZE

| Pump type   | kW  | HP  | l/min 0 | 200  | 300  | 400  | 500  | 600  | 700  | 833  |
|-------------|-----|-----|---------|------|------|------|------|------|------|------|
|             |     |     | m³/h 0  | 12   | 18   | 24   | 30   | 36   | 42   | 50   |
| 40-125/3.06 | 3   | 4   | 27      | 26.7 | 25.5 | 23.6 | 21.1 | 18.3 | 14.8 | 9.5  |
| 40-125/4.06 | 4   | 5.5 | 37      | 36.5 | 35.8 | 34.6 | 32.7 | 30.2 | 27.1 | 22.7 |
| 40-160/5.56 | 5.5 | 7.5 | 44.5    | 43.5 | 42   | 39.8 | 37.2 | 34.6 | 31.8 | 27.5 |
| 40-160/7.56 | 7.5 | 10  | 56      | 54   | 52.5 | 50.5 | 48   | 45.5 | 42.5 | 38.5 |
| 40-200/116  | 11  | 15  | 66      | 65   | 63.5 | 62   | 60   | 57   | 54   | 49.5 |
| 40-200/156  | 15  | 20  | 81      | 80   | 78.5 | 77   | 75   | 73   | 70.5 | 66.5 |

## 3D SERIES 50 SIZE

| Pump type   | kW  | HP  | l/min 0 | 500  | 600  | 700  | 800  | 1000 | 1200 | 1433 |
|-------------|-----|-----|---------|------|------|------|------|------|------|------|
|             |     |     | m³/h 0  | 30   | 36   | 42   | 48   | 60   | 72   | 86   |
| 50-125/5.56 | 5.5 | 7.5 | 32.6    | 31.8 | 31.2 | 30.2 | 28.9 | 25.6 | 21.7 | 16.8 |
| 50-125/7.56 | 7.5 | 10  | 38      | 37.1 | 36.5 | 35.6 | 34.3 | 31   | 27.2 | 22   |
| 50-160/116  | 11  | 15  | 47      | 46.5 | 45.5 | 44.5 | 43   | 39.8 | 35.5 | 29.4 |
| 50-160/156  | 15  | 20  | 56      | 56   | 55.5 | 54.5 | 53.5 | 50.5 | 46.5 | 40.5 |

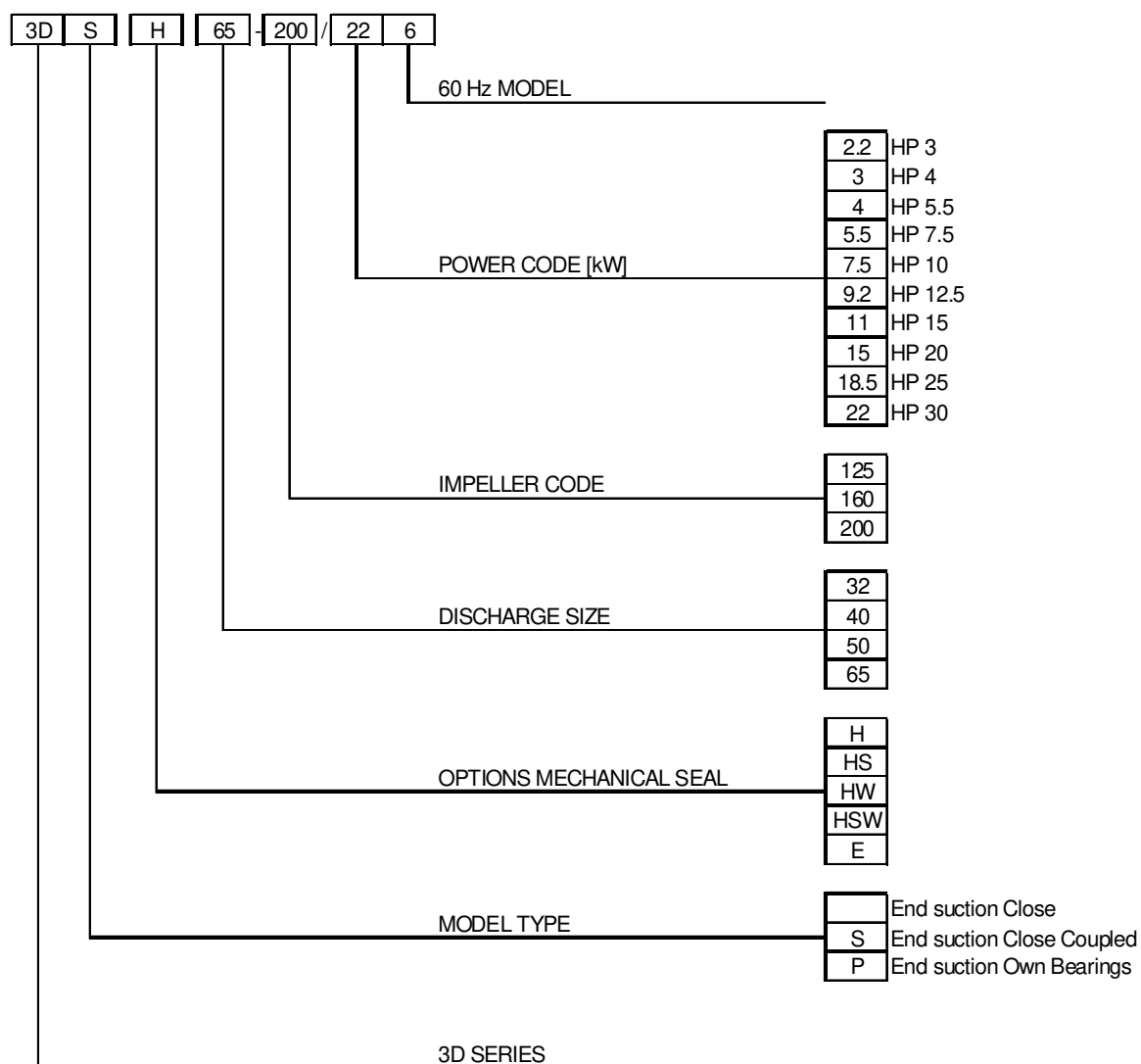
## 3D SERIES 65 SIZE

| Pump type    | kW   | HP   | l/min 0 | 600  | 700  | 900  | 1200 | 1500 | 1600 | 1800 | 2000 | 2100 | 2200 |
|--------------|------|------|---------|------|------|------|------|------|------|------|------|------|------|
|              |      |      | m³/h 0  | 36   | 42   | 54   | 72   | 90   | 96   | 108  | 120  | 126  | 132  |
| 65-125/5.56  | 5.5  | 7.5  | 25.5    | 25.5 | 24.9 | 23.3 | 20.2 | 16.4 | 15.1 | 12.4 | 9.5  | -    | -    |
| 65-125/7.56  | 7.5  | 10   | 32      | 31.3 | 30.8 | 29.2 | 26.4 | 22.8 | 21.5 | 18.7 | 15.4 | 13.7 | -    |
| 65-160/9.26  | 9.2  | 12.5 | 36.6    | -    | 35.1 | 33.3 | 30.1 | 26.6 | 25.4 | 22.4 | 19   | 17   | -    |
| 65-160/116   | 11   | 15   | 41      | -    | 40   | 38.3 | 35.6 | 32.1 | 30.8 | 28.2 | 25.3 | 23.5 | 21.5 |
| 65-160/156   | 15   | 20   | 48.5    | -    | 48   | 46.5 | 44   | 40.5 | 39.2 | 36.5 | 33.7 | 32.2 | 30.5 |
| 65-200/156   | 15   | 20   | 55.5    | -    | 53   | 51   | 47   | 42   | 39.9 | 35.6 | 30.7 | 28   | -    |
| 65-200/18.56 | 18.5 | 25   | 62.5    | -    | 60.5 | 58.5 | 55   | 50.5 | 48.5 | 44.5 | 39.9 | 37.4 | 35   |
| 65-200/226   | 22   | 30   | 69.5    | -    | 67.5 | 66   | 62.5 | 58.5 | 56.5 | 53   | 49   | 47   | 44.5 |

**TYPE KEY AND CURVE SPECIFICATIONS**

60Hz

Rev. A

**TYPE KEY**

**PERFORMANCE CURVE SPECIFICATIONS**

The specifications below qualify the curves shown on the following pages.

Tolerances according to ISO 9906 Annex A

The curves refer to effective speed of asynchronous motors at 60 Hz

Measurements were carried out with clean water at 20°C of temperature and with a kinematic viscosity of  $\nu = 1 \text{ mm}^2/\text{s}$  (1 cSt)

The NPSH curve is an average curve obtained in the same conditions of performance curves.

The continuous curves indicate the recommended working range. The dotted curve is only a guide.

In order to avoid the risk of over-heating, the pumps should not be used at a flow rate below 10% of best efficiency point.

Symbols explanation:

Q = volume flow rate

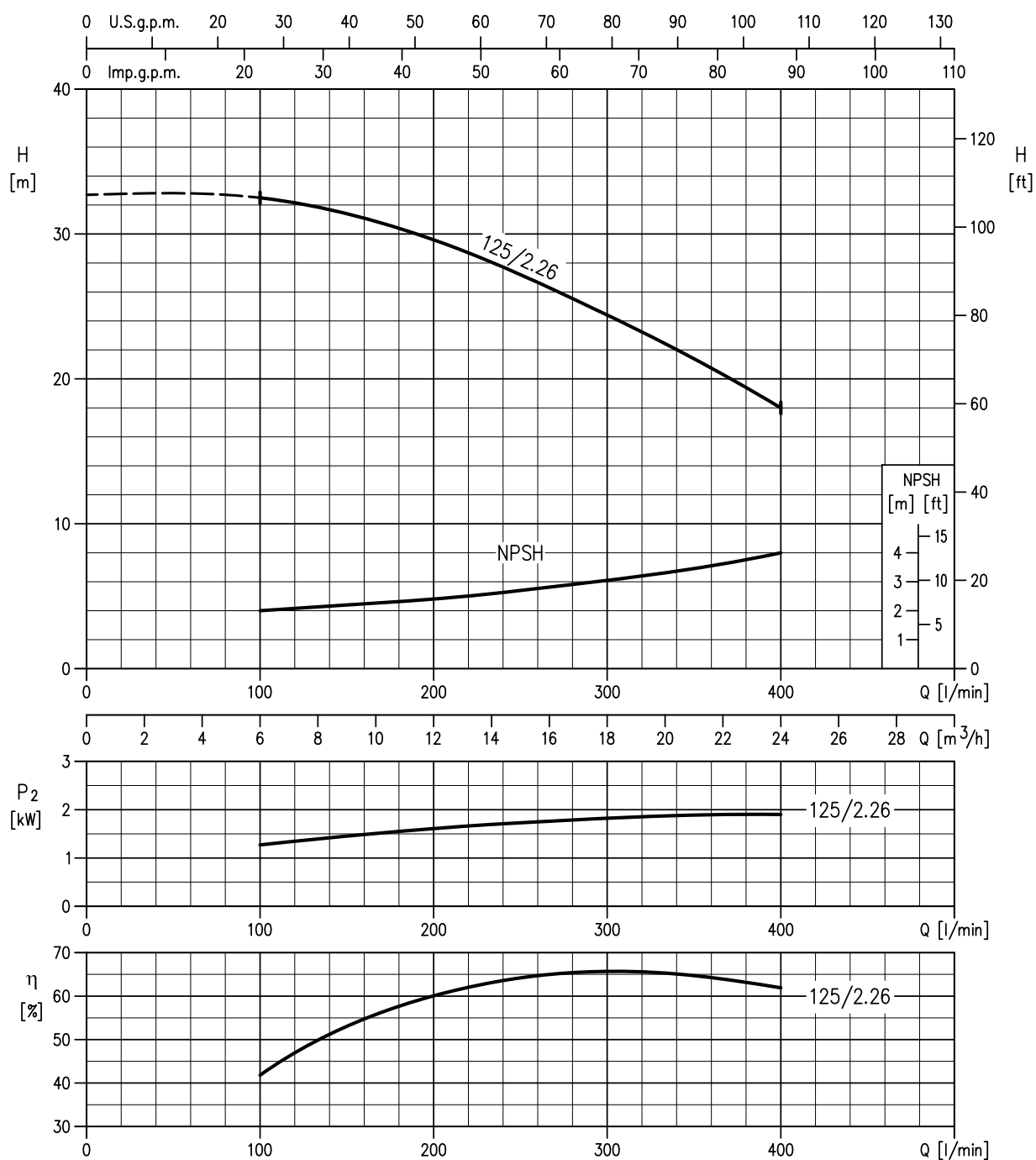
H = total head

$P_2$  = pump power input (shaft power)

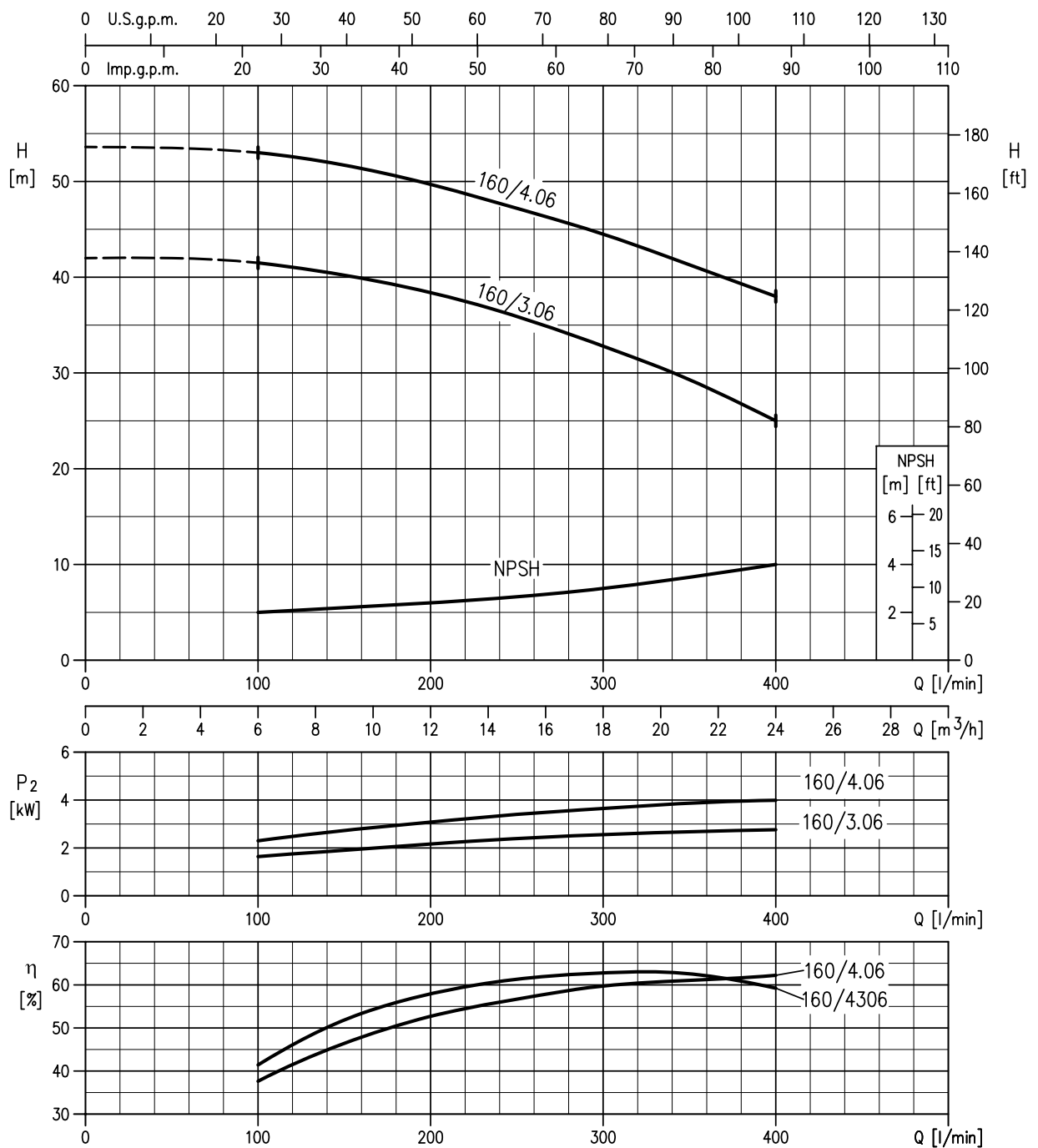
$\eta$  = pump efficiency

NPSH = net positive suction head required by the pump



**32-125/2.26 (2.2kW) – impeller diameter = 133 mm**Rotation speed  $\approx 3480 \text{ min}^{-1}$ 

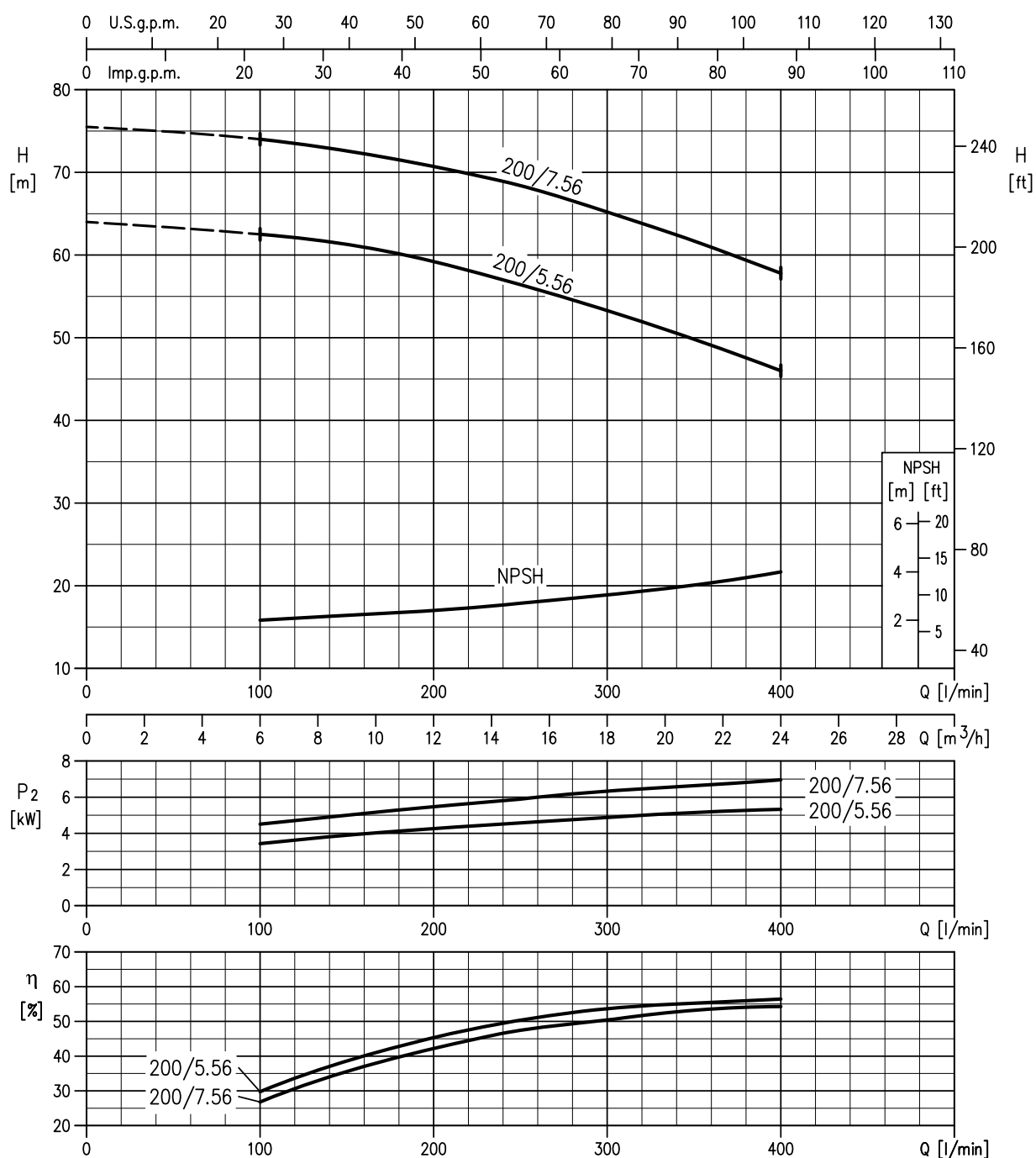
Test standard: ISO 9906 – Annex A

**32-160/3.06 (3.0kW) – impeller diameter = 151 mm****32-160/4.06 (4.0kW) – impeller diameter = 166 mm**Rotation speed  $\approx 3480 \text{ min}^{-1}$ 

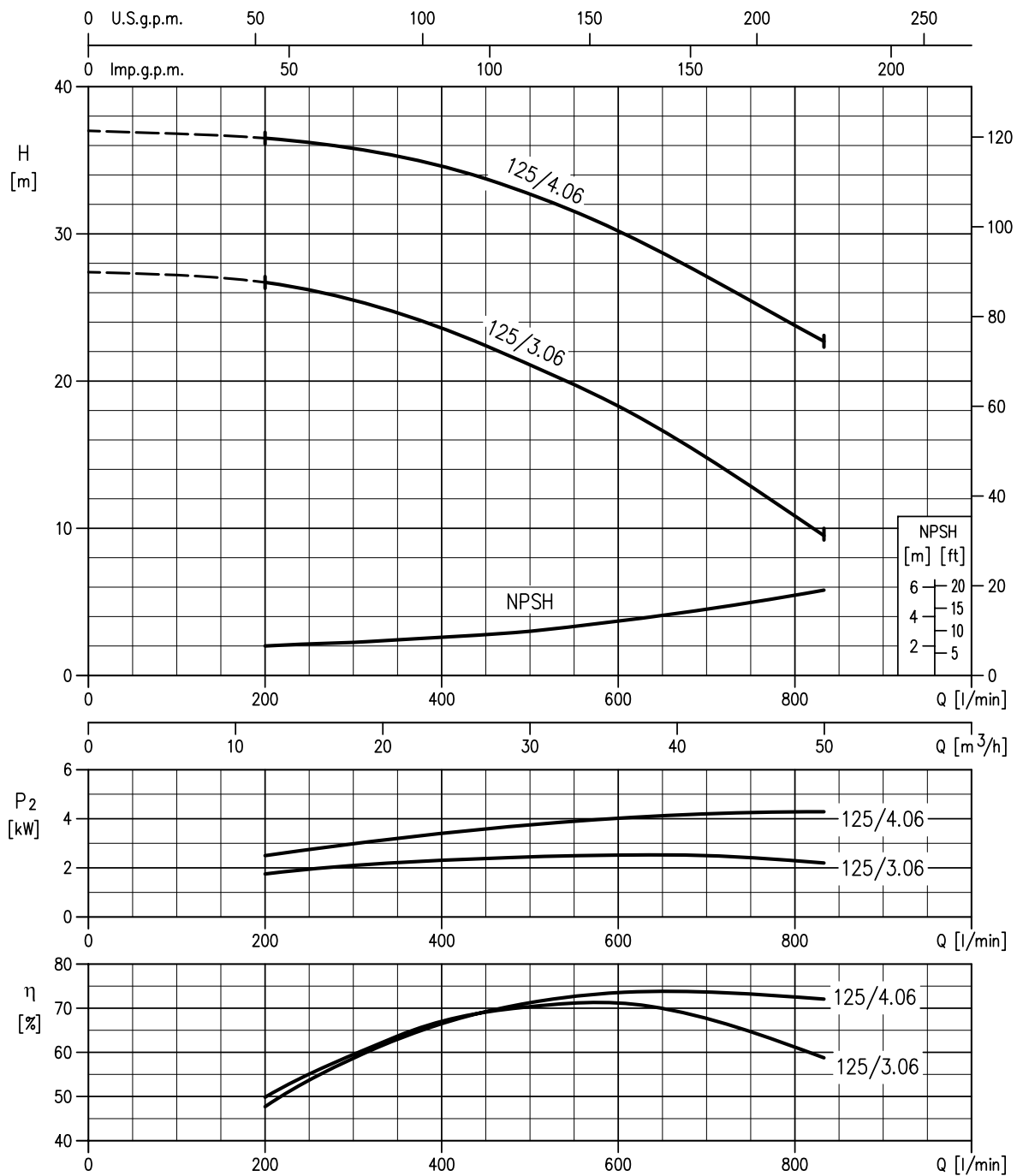
Test standard: ISO 9906 – Annex A

32-200/5.56 (5.5kW) – impeller diameter = 186 mm

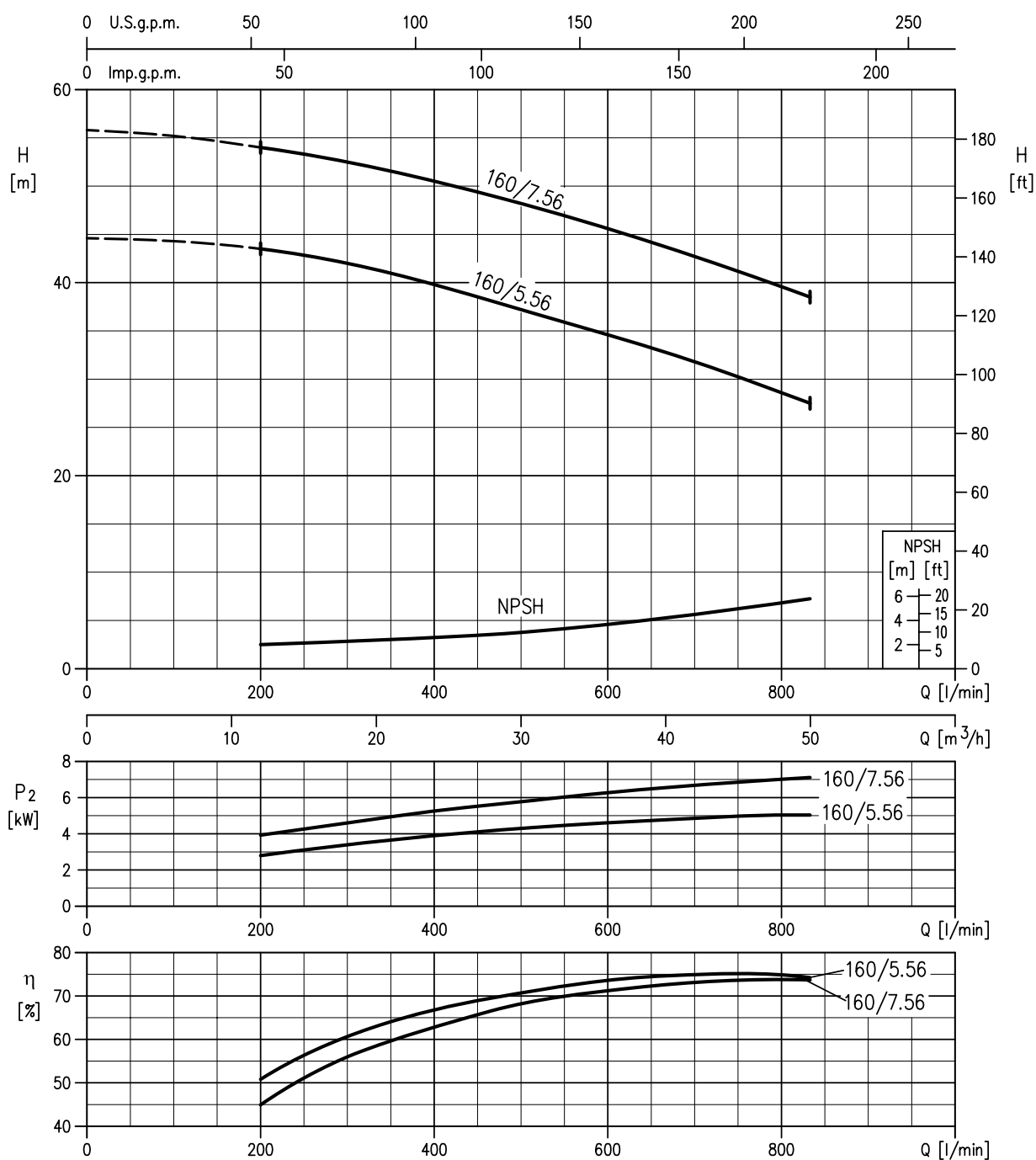
32-200/7.56 (7.5 kW) – impeller diameter = 200 mm

Rotation speed  $\approx 3480 \text{ min}^{-1}$ 

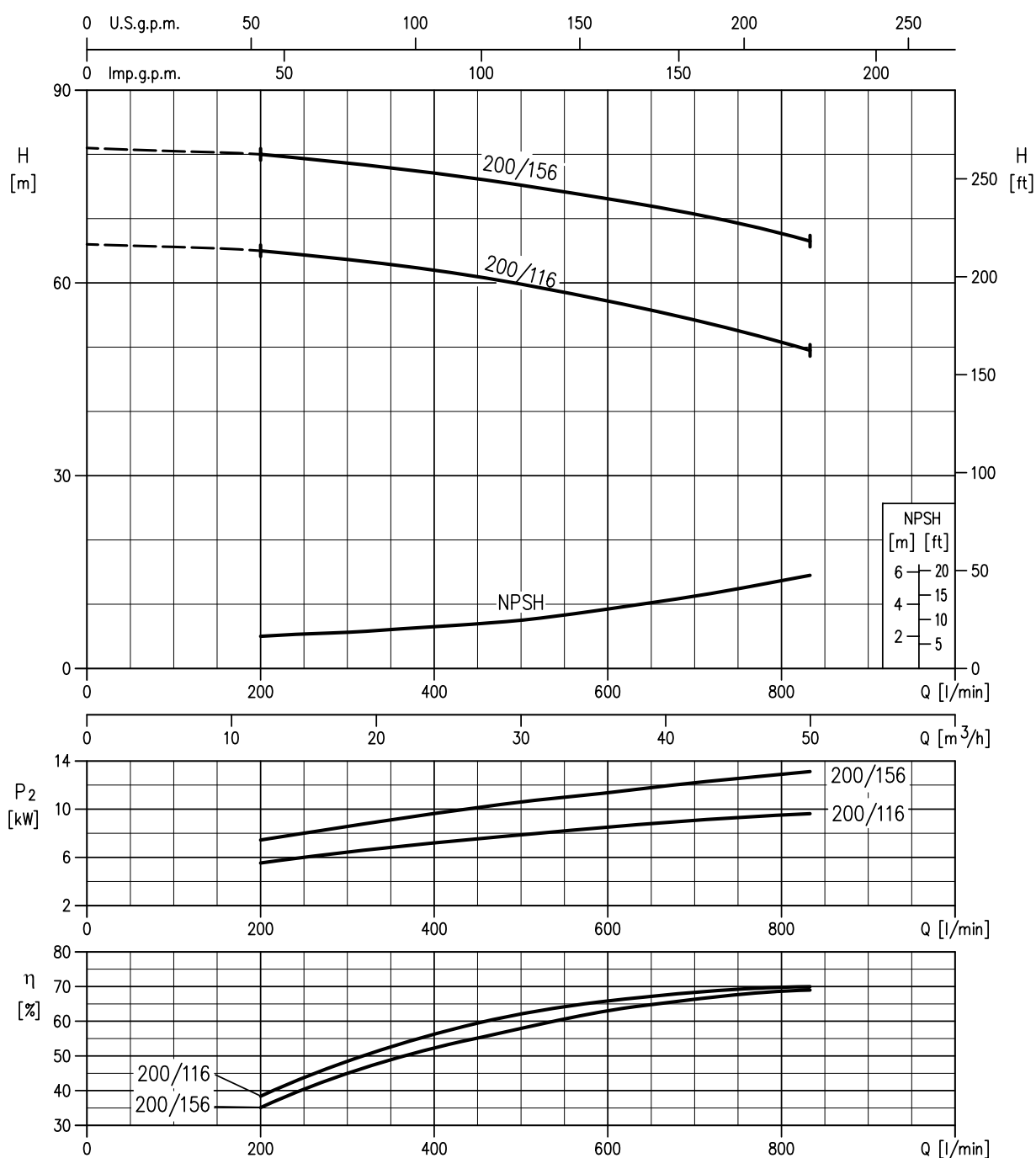
Test standard: ISO 9906 – Annex A

**40-125/3.06 (3.0 kW) – impeller diameter = 125 mm****40-125/4.06 (4.0 kW) – impeller diameter = 140 mm**

Rotation speed  $\approx 3480 \text{ min}^{-1}$   
 Test standard: ISO 9906 – Annex A

**40-160/5.56 (5.5 kW) – impeller diameter = 151 mm****40-160/7.56 (7.5 kW) – impeller diameter = 166 mm**

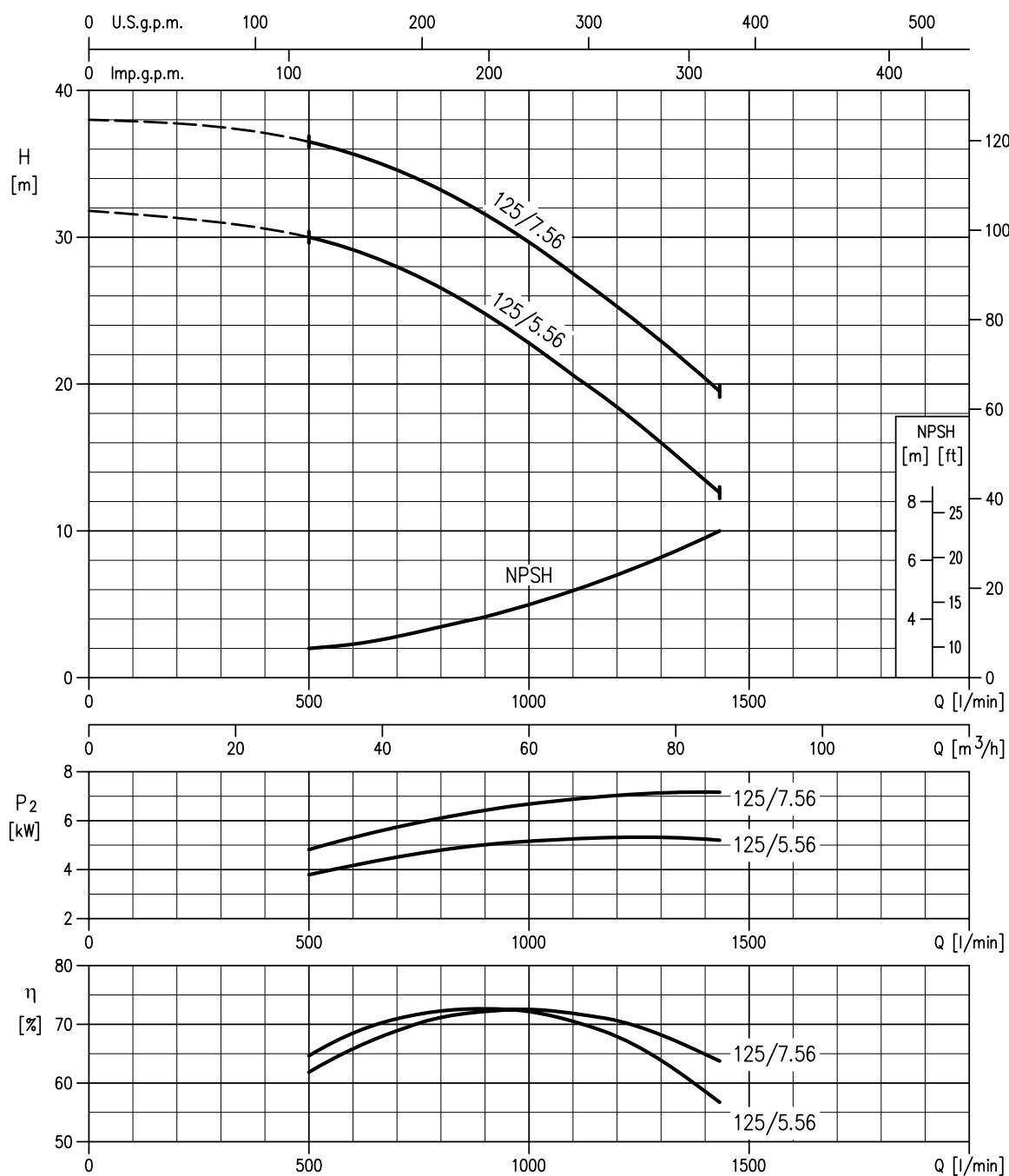
Rotation speed  $\approx 3480 \text{ min}^{-1}$   
 Test standard: ISO 9906 – Annex A

**40-200/116 (11 kW) – impeller diameter = 183 mm****40-200/156 (15 kW) – impeller diameter = 200 mm**Rotation speed  $\approx 3480 \text{ min}^{-1}$ 

Test standard: ISO 9906 – Annex A

50-125/5.56 (5.5 kW) – impeller diameter = 131 mm

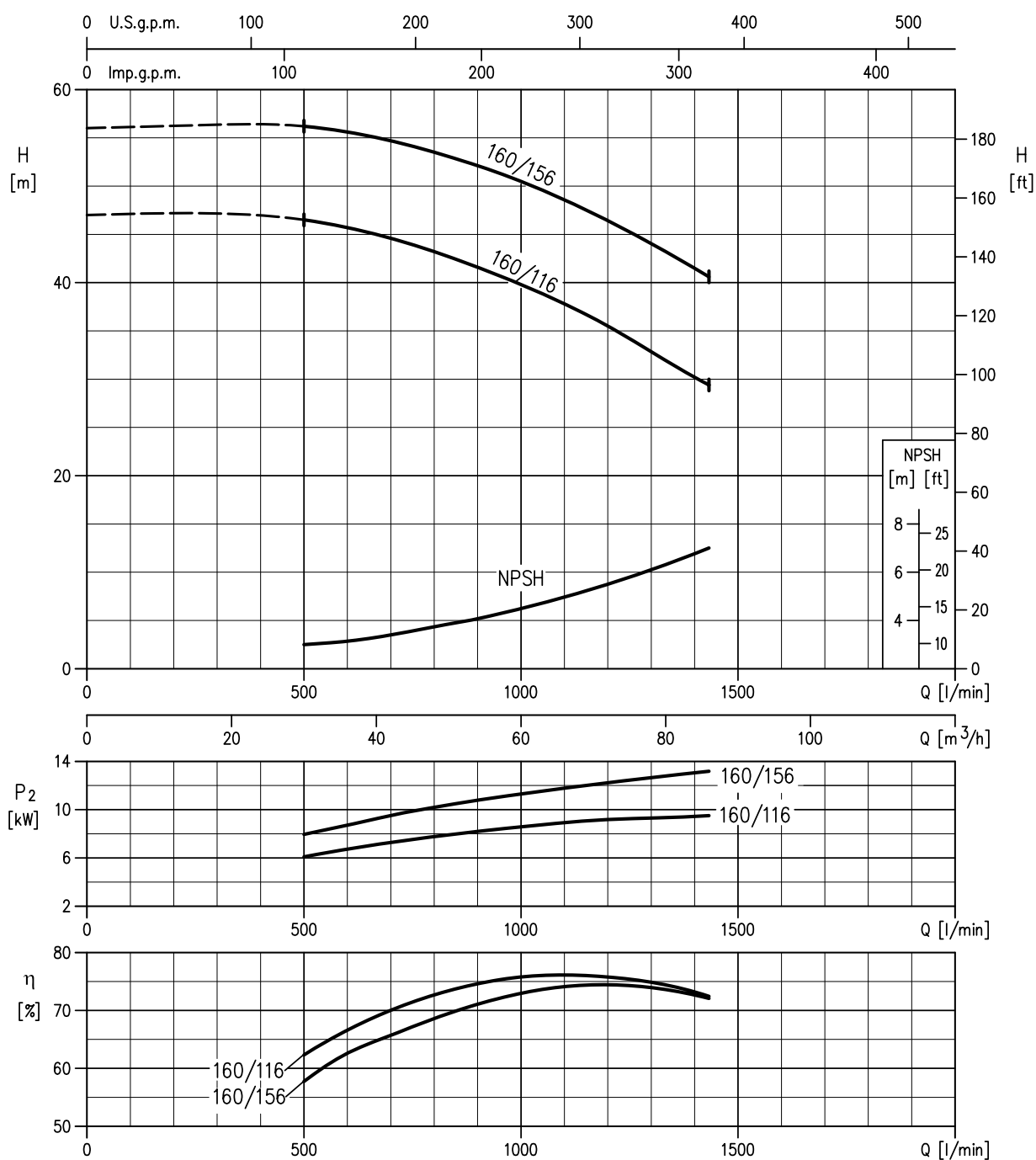
50-125/7.56 (7.5 kW) – impeller diameter = 140 mm

Rotation speed  $\approx 3480 \text{ min}^{-1}$ 

Test standard: ISO 9906 – Annex A

50-160/11.6 (11 kW) – impeller diameter = 154 mm

50-160/156 (15 kW) – impeller diameter = 166 mm

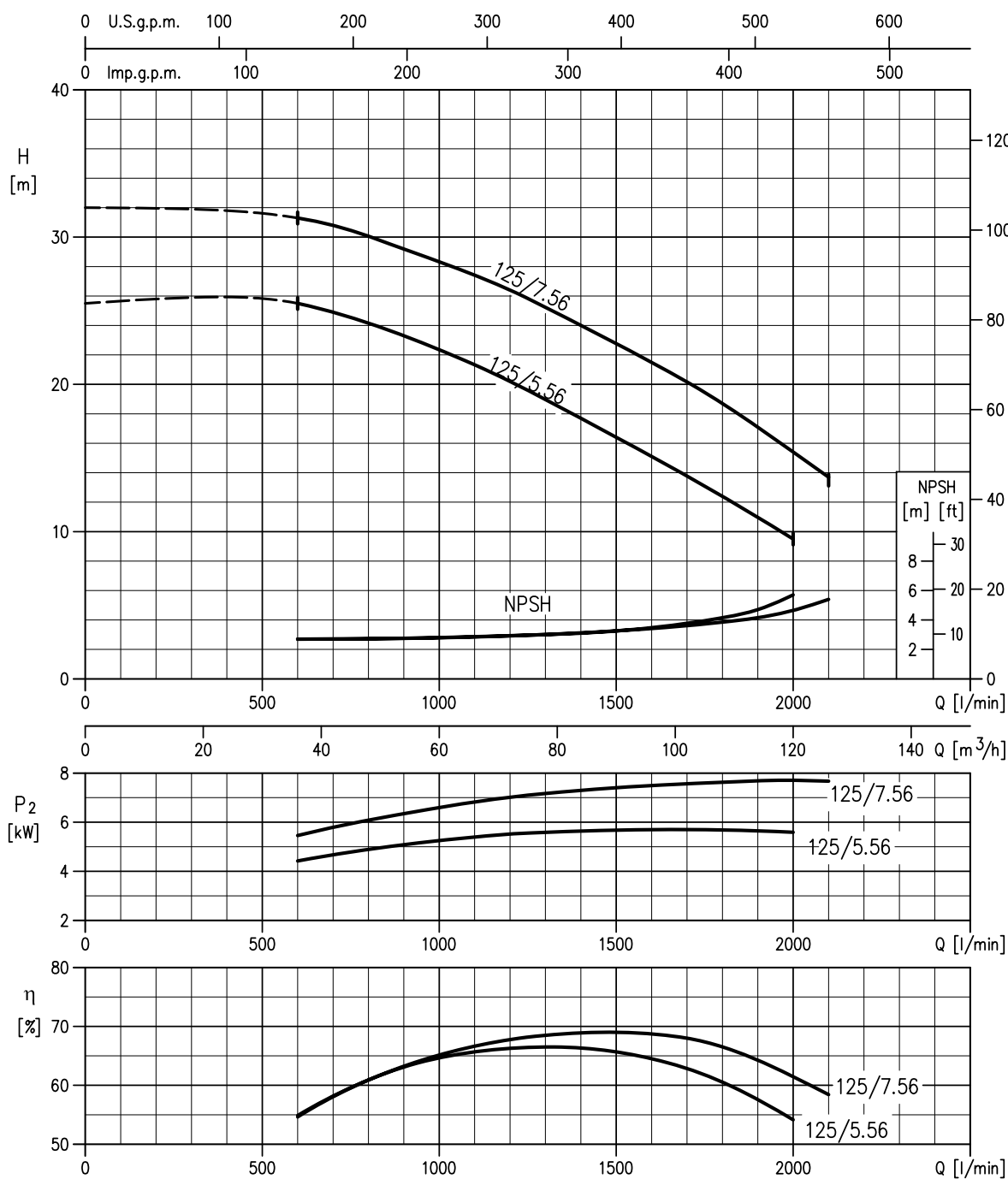


Rotation speed  $\approx 3480 \text{ min}^{-1}$   
 Test standard: ISO 9906 – Annex A



65-125/5.56 (5.5 kW) – impeller diameter = 121 mm

65-125/7.56 (7.5 kW) – impeller diameter = 132 mm

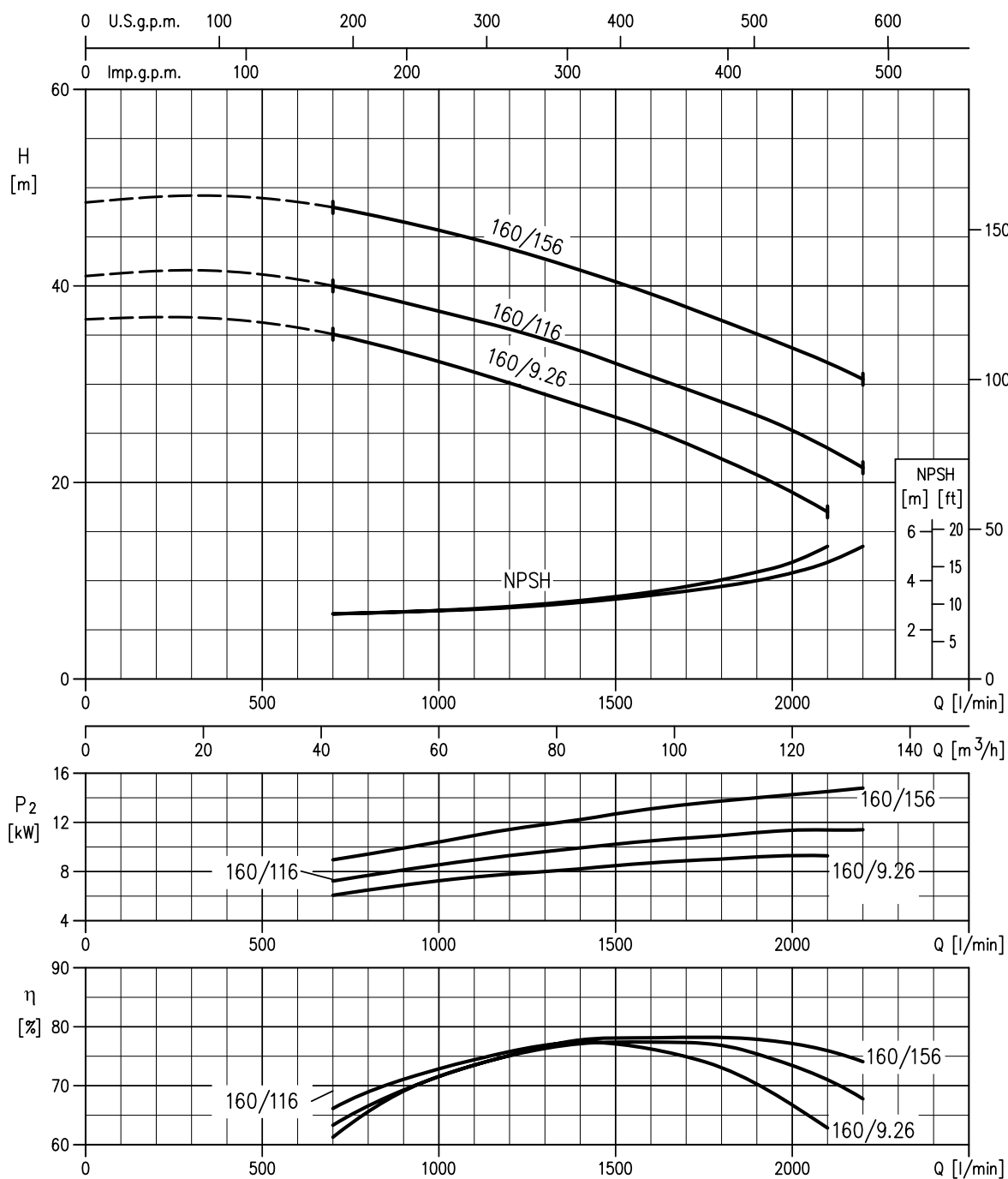


Rotation speed  $\approx 3480 \text{ min}^{-1}$   
 Test standard: ISO 9906 – Annex A

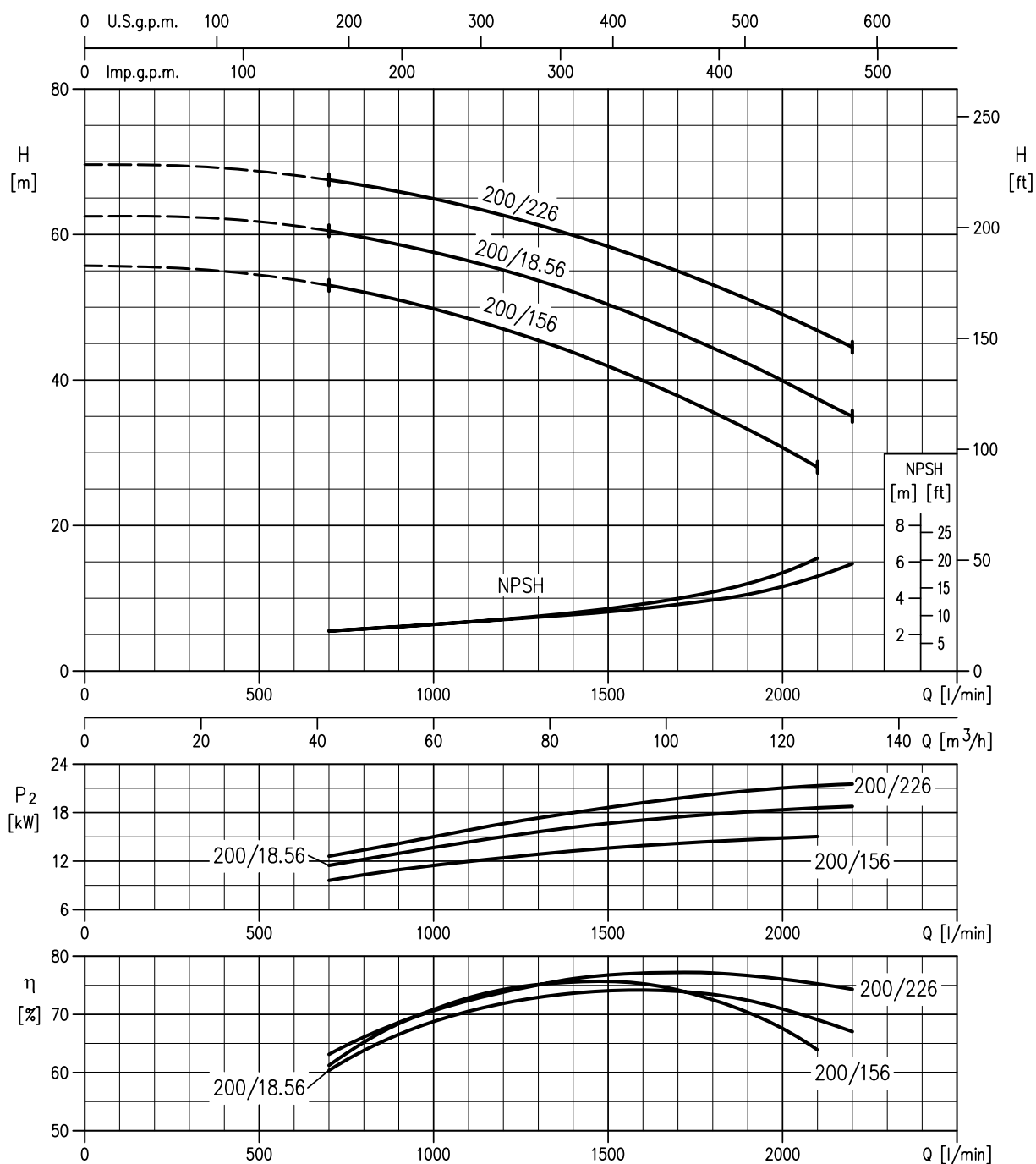
65-160/9.26 (9.2 kW) – impeller diameter = 139 mm

65-160/116 (11 kW) – impeller diameter = 146 mm

65-160/156 (15 kW) – impeller diameter = 157 mm

Rotation speed  $\approx 3480 \text{ min}^{-1}$ 

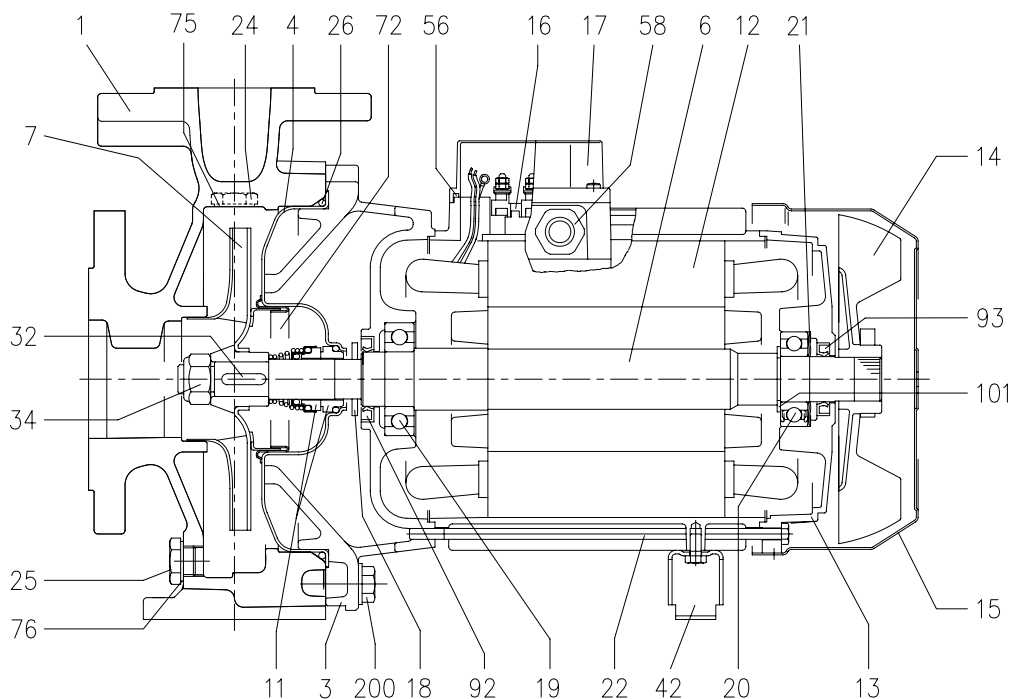
Test standard: ISO 9906 – Annex A

**65-200/156 (15 kW) – impeller diameter = 165 mm****65-200/18.56 (18.5 kW) – impeller diameter = 175 mm****65-200/226 (22 kW) – impeller diameter = 184 mm**

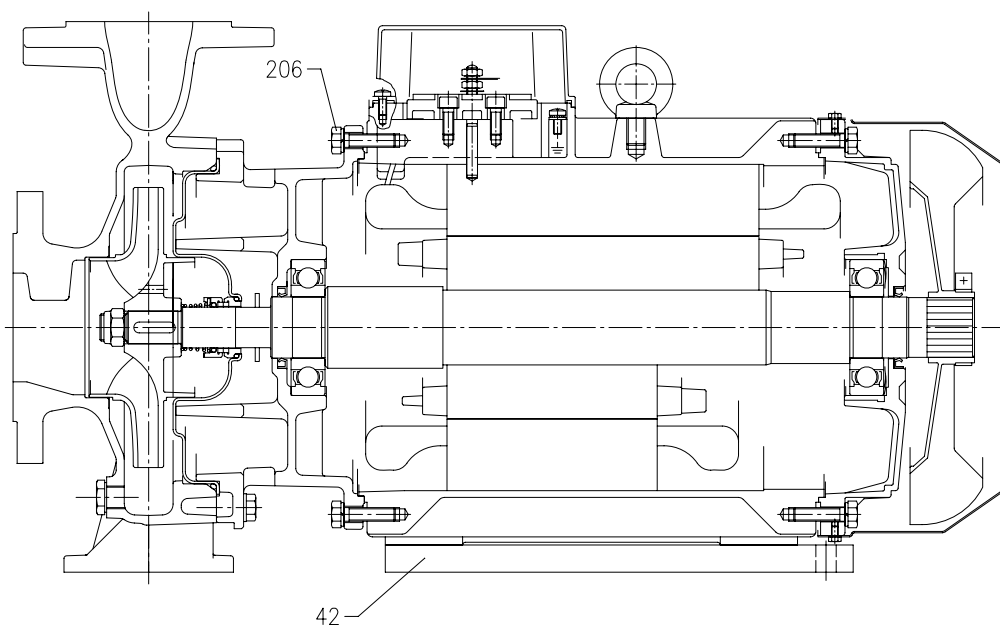
Rotation speed  $\approx 3480 \text{ min}^{-1}$   
 Test standard: ISO 9906 – Annex A

**3D SECTIONAL VIEW DRAWING**

UP TO 11 kW



15 kW AND ABOVE

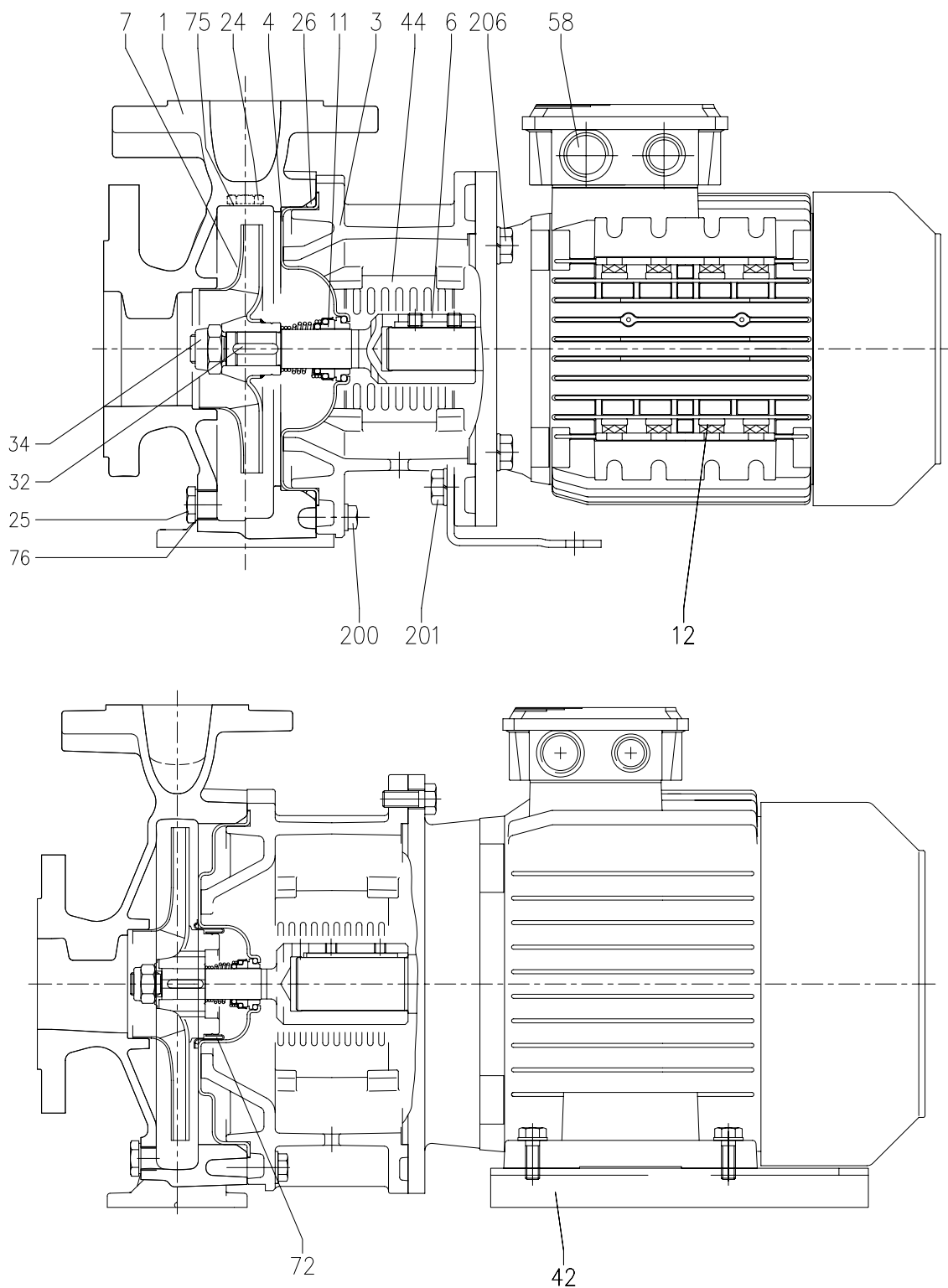


## 3D SECTIONAL VIEW TABLE

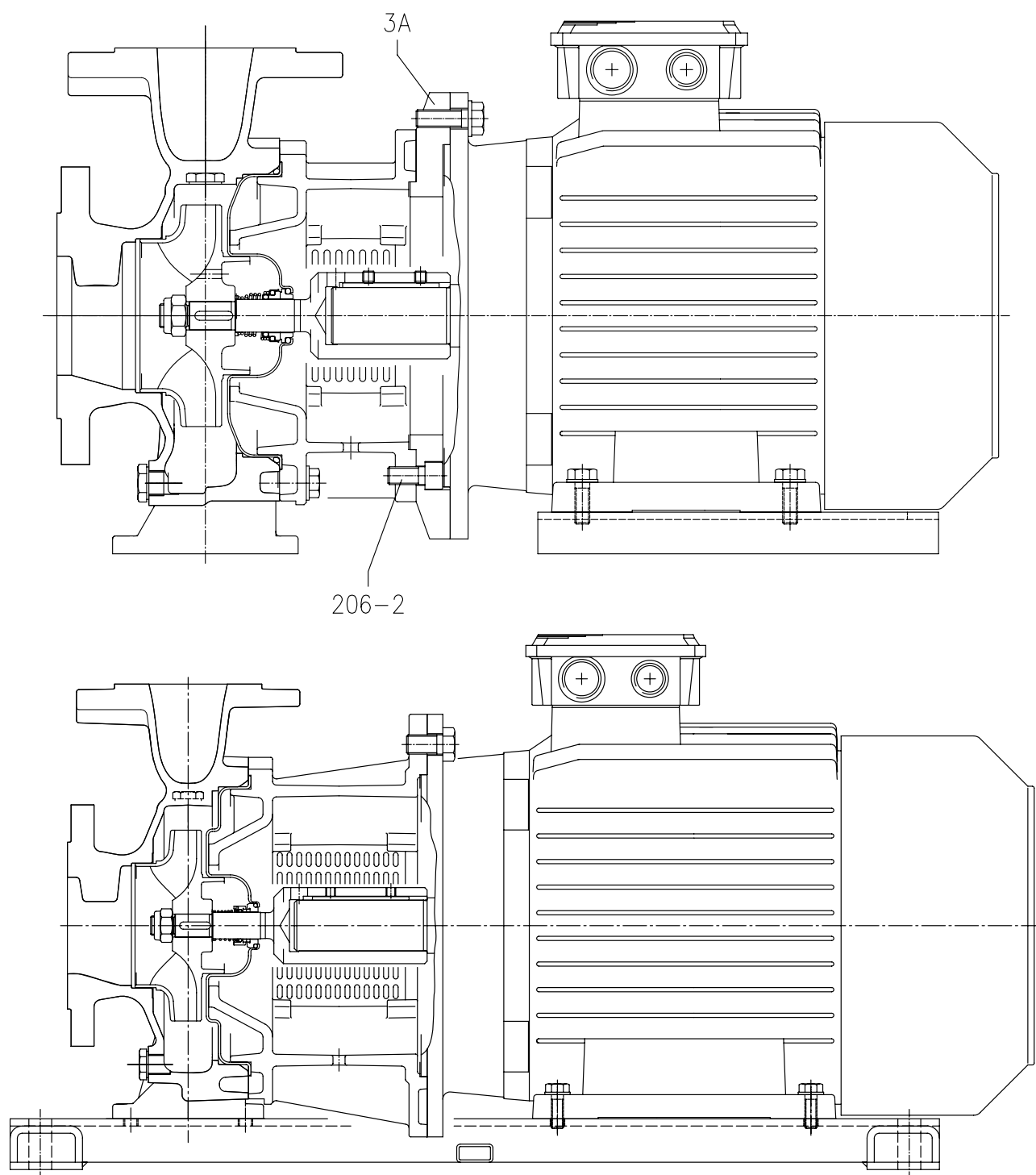
| N°     | PART NAME                        |                                                | MATERIAL                               | DIMENSIONS  | STANDARD                   | Q. TY |
|--------|----------------------------------|------------------------------------------------|----------------------------------------|-------------|----------------------------|-------|
| 001    | Casing                           |                                                | Cast iron EN-GJL-250-EN 1561           |             |                            | 1     |
| 003    | Motor bracket                    |                                                | [1]                                    |             |                            | 1     |
| 004    | Casing cover                     |                                                | EN 1.4301 (AISI 304)                   |             |                            | 1     |
| 006    | Shaft with rotor - Wet extension |                                                | EN 1.4301 (AISI 304)                   |             |                            | 1     |
| 007    | Impeller                         |                                                | [2]                                    |             |                            | 1     |
| 011    | Mechanical seal                  |                                                | [3]                                    | [3]         |                            | 1     |
| 012    | Motor frame with stator          |                                                | -                                      |             |                            | 1     |
| 013    | Motor cover                      |                                                | Aluminium                              |             |                            | 1     |
| 014    | Fan                              |                                                | PA                                     |             |                            | 1     |
| 015    | Fan cover                        |                                                | Fe P04 Galvanized                      |             |                            | 1     |
| 016    | Terminal                         |                                                | -                                      |             |                            | 1     |
| 017    | Terminal box cover               |                                                | Aluminium (three phase version)        |             |                            | 1     |
| 018    | Splash ring                      | Up to 11 kW                                    | NBR                                    | 40x21.5x2   | EBARA DRAWING              | 1     |
|        |                                  | 15 kW and above                                |                                        | 50x29.5x3   |                            |       |
| 019    | Bearing                          |                                                | -                                      | [4]         |                            | 1     |
| 020    | Bearing                          |                                                | -                                      | [4]         |                            | 1     |
| 021    | Adjusting ring                   |                                                | Steel C70                              |             |                            | 1     |
| 022    | Tie rod                          | Up to 3 kW                                     | Fe 42 Galvanized                       | M5          | EBARA DRAWING              | 4     |
|        |                                  | For 4 - 5.5 - 7.5 kW                           |                                        | M6          |                            |       |
|        |                                  | 9.2 e 11kW                                     |                                        | M8          |                            |       |
|        | Screw                            | 15 kW and above                                | Gv. Steel 8.8 strenght class ISO 898-1 | M10x40      | UNI 5739                   |       |
| 24     | Priming plug                     |                                                | Brass                                  | G 3/8" L=8  |                            | 1     |
| 25     | Draing plug                      |                                                | Brass                                  | G 3/8" L=8  |                            | 1     |
| 026    | "O" ring                         | 32-125, 40-125                                 | NBR [5]                                | 158.11x5.34 | OR 6625                    | 1     |
|        |                                  | 32-160, 40-160, 50-125, 65-125                 |                                        | 183.52x5.34 | OR 6720                    |       |
|        |                                  | 32-200, 40-200, 50-160, 50-200, 65-160, 65-200 |                                        | 227.96x5.34 | OR 6895                    |       |
|        |                                  |                                                |                                        |             |                            |       |
| 032    | Key                              | Up to 11 kW                                    | EN 1.4401 (AISI 316)                   | A 6x6x25    | UNI 6604                   | 1     |
|        |                                  | 50-200/156                                     |                                        | A 8x7x30    |                            |       |
|        |                                  | 15 kW and above                                |                                        | M16x1.5     |                            |       |
| 034    | Impeller nut                     | Up to 11kW                                     | EN 1.4301 (AISI 304)                   | M16x1.5     | UNI 7474                   | 1     |
|        |                                  | 50-200/156                                     |                                        | M18x1.5     |                            |       |
|        |                                  | 15 kW and above                                |                                        | M20x1.5     |                            |       |
| 042    | Foot                             |                                                | Aluminium / Galvanized steel           |             | EBARA DRAWING              | [6]   |
| 056    | Box gasket                       |                                                | NBR                                    |             |                            | 1     |
| 058    | Cable gland                      |                                                | -                                      |             |                            | [7]   |
| 072    | Casing ring [8]                  |                                                | EN 1.4301 (AISI 304)                   |             |                            | 1     |
| 075    | Washer                           |                                                | Aluminum                               | 22x17x1.5   | EBARA DRAWING              | 1     |
| 076    | Washer                           |                                                | Aluminum                               |             |                            | 1     |
| 092    | Lip seal                         | Up to 3kW                                      | -                                      | 25x40x7     | DIN 3760<br>without spring | 1     |
|        |                                  | From 4 to 7.5 kW                               |                                        | 30x47x7     |                            |       |
|        |                                  | From 9.2 kW to 11 kW                           |                                        | 40x55x7     |                            |       |
|        |                                  | From 15 kW to 22 kW                            |                                        | 45x60x7     |                            |       |
| 093    | Lip seal                         | Up to 4 kW                                     | -                                      | 25x40x7     | DIN 3760<br>without spring | 1     |
|        |                                  | From 5.5 kW to 7.5 kW                          |                                        | 30x47x7     |                            |       |
|        |                                  | From 9.2 kW to 11 kW                           |                                        | 40x55x7     |                            |       |
|        |                                  | From 15 kW to 22 kW                            |                                        | 45x60x7     |                            |       |
| 101    | Snap ring [9]                    |                                                | Carbon tool steels TC 80               | Ø 40        | UNI 7435                   | 1     |
| 200    | Screw                            | 32-125                                         | Gv. Steel 8.8 strenght class ISO 898-1 | M 8x30      | UNI 5739                   | 8     |
|        |                                  | 40-125                                         |                                        | M 10x35     |                            | 10    |
|        |                                  | 32-160                                         |                                        |             |                            |       |
|        |                                  | 40-160                                         |                                        |             |                            |       |
|        |                                  | 50-125                                         |                                        |             |                            |       |
| 65-125 |                                  |                                                |                                        |             |                            |       |
| 235    | Washer                           | 32-200, 40-200                                 | Galvanized Steel                       | 8.4x17      | UNI 6592                   | 8     |
|        |                                  | 50-160, 50-200                                 |                                        | 10.5x21     |                            | 10    |
|        |                                  | 65-160, 65-200                                 |                                        |             |                            |       |
|        |                                  | 32-125                                         |                                        |             |                            |       |
|        |                                  | 40-125                                         |                                        |             |                            |       |
| 206    | Screw for bracket [10]           | 32-160                                         | Gv. Steel 8.8 strenght class ISO 898-1 | M 10x40     | UNI 5739                   | 4     |
|        |                                  | 40-160                                         |                                        |             |                            |       |
|        |                                  | 50-125                                         |                                        |             |                            |       |
|        |                                  | 65-125                                         |                                        |             |                            |       |

Counterflange kit on request see p. 315

- [1] Cast iron EN-GJL-200-EN 1561 for 3D 40-125/4.6, 40-160/7.56, 65-125/5.56; 65-125/7.56  
Aluminum AL-EN-1706-AC-46000-D for all the others;
- [2] EN 1.4301 (AISI 304) for 32, 40, 50 series;  
EN 1.4401 (AISI 316) for 65 series
- [3] For special version and dimensions see pag. 307-310
- [4] See pag. 311
- [5] FPM for H, HS, HW, HSW version;  
EPDM for E version
- [6] 0 for 65-160/15 kW;  
1 for pumps up to 11 kW  
2 for 65-200/15, 18.5, 22 kW
- [7] 1 for pumps with motor up to 11 kW  
2 for pumps with 15 kW motor and above
- [8] Only for: 32-200, 40-200, 50-160
- [9] Only for pumps with 9.2 and 11 kW motor
- [10] Only for pumps with 15 kW motor and above

**3DS 32, 40, 50 SECTIONAL VIEW DRAWING**

3DS 65 SECTIONAL VIEW DRAWING



3DS SECTIONAL VIEW TABLE

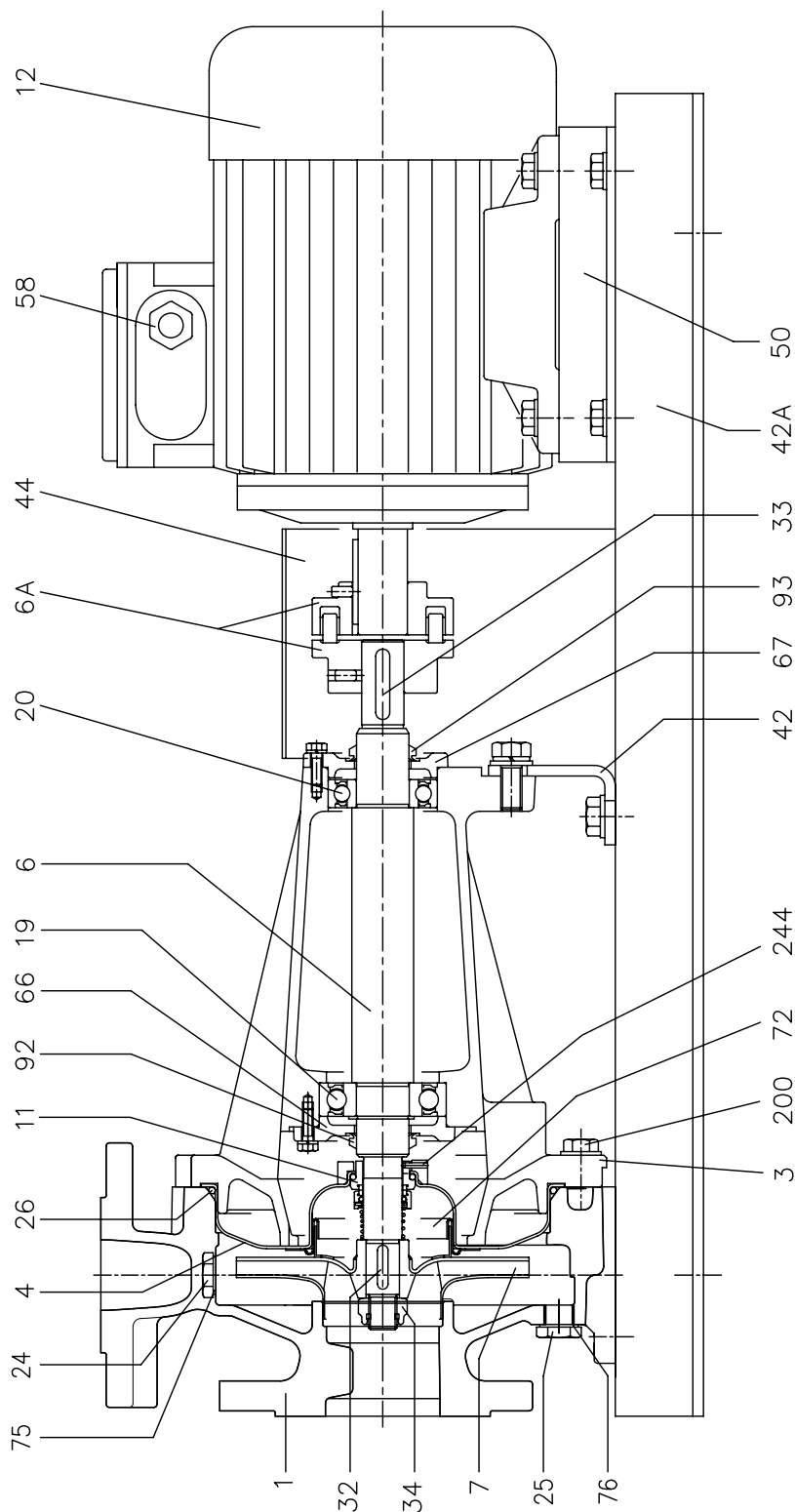
| N°    | PART NAME                 |                                                    | MATERIAL                               | DIMENSIONS  | STANDARD      | Q.TY |
|-------|---------------------------|----------------------------------------------------|----------------------------------------|-------------|---------------|------|
| 001   | Casing                    |                                                    | Cast iron EN-GJL-200-EN 1561           |             |               | 1    |
| 003   | Motor bracket             |                                                    | Cast iron EN-GJL-200-EN 1561           |             |               | 1    |
| 003A  | Adapter ring [1]          |                                                    | Cast iron EN-GJL-200-EN 1561           |             |               | 1    |
| 004   | Casing cover              |                                                    | EN 1.4301 (AISI 304)                   |             |               | 1    |
| 006   | Coupling - Wet extensions |                                                    | EN 1.4301 (AISI 304)                   | [2]         |               | 1    |
| 007   | Impeller                  |                                                    | [3]                                    |             |               | 1    |
| 011   | Mechanical seal           |                                                    | [4]                                    | [4]         |               | 1    |
| 012   | Motor                     |                                                    | -                                      |             |               | 1    |
| 024   | Priming plug              |                                                    | Brass                                  | G 3/8" L=8  |               | 1    |
| 025   | Drainig plug              |                                                    | Brass                                  | G 3/8" L=8  |               | 1    |
| 026   | "O" ring                  | 32-125, 40-125                                     | NBR [5]                                | 158.11x5.34 | OR 6625       | 1    |
|       |                           | 32-160, 40-160, 50-125, 65-125                     |                                        | 183.52x5.34 | OR 6720       |      |
|       |                           | 32-200, 40-200,50-160, 50-200, 65-160, 65-200      |                                        | 227.96x5.34 | OR 6895       |      |
|       |                           |                                                    |                                        |             |               |      |
| 032   | Key                       | Up to 11 kW                                        | EN 1.4401 (AISI 316)                   | 6x6x25      | UNI 6604      | 1    |
|       |                           | 50-200/156                                         |                                        | 8x7x30      |               |      |
|       |                           | 15 kW and above                                    |                                        |             |               |      |
| 034   | Impeller nut              | Up to 11kW                                         | EN 1.4301 (AISI 304)                   | M16x1.5     | UNI 7474      | 1    |
|       |                           | 50-200/156                                         |                                        | M18x1.5     |               |      |
|       |                           | 15 kW and above                                    |                                        | M20x1.5     |               |      |
|       |                           |                                                    |                                        |             |               |      |
| 042   | Foot                      |                                                    | Galvanized Steel                       |             |               | [6]  |
| 044   | Protection                |                                                    | EN 1.4301 (AISI 304)                   |             | EBARA DRAWING | 1    |
| 058   | Cable gland               |                                                    | -                                      |             |               |      |
| 072   | Casing ring [7]           |                                                    | EN 1.4301 (AISI 304)                   |             |               | 1    |
| 075   | Washer                    |                                                    | Aluminum                               | 22x17x1.5   | EBARA DRAWING | 1    |
| 076   | Washer                    |                                                    | Aluminum                               |             |               | 1    |
| 200   | Screw                     | 32-125<br>40-125                                   | Gv. Steel 8.8 strenght class ISO 898-1 | M8x30       | UNI 5739      | 8    |
|       |                           | 32-160<br>40-160<br>50-125<br>65-125               |                                        | M10x35      |               | 10   |
|       |                           | 32-200, 40-200<br>50-160, 50-200<br>65-160, 65-200 |                                        |             |               | 12   |
|       |                           |                                                    |                                        |             |               |      |
| 201   | Screw [8]                 |                                                    | Gv. Steel 8.8 strenght class ISO 898-1 | M10x16      | UNI 5739      | 2    |
| 206   | Screw for bracket         |                                                    | Gv. Steel 8.8 strenght class ISO 898-1 | M10x40      | UNI 5739      | 4    |
| 206-2 | Screw adapter ring [1]    |                                                    | Gv. Steel 8.8 strenght class ISO 898-1 | M12x20      | UNI 5931      | 4    |
| 235   | Washer                    | 32-125<br>40-125                                   | Galvanized Steel                       | 8.4x17      | UNI 6592      | 8    |
|       |                           | 32-160<br>40-160<br>50-125<br>65-125               |                                        | 10.5x21     |               | 10   |
|       |                           | 32-200, 40-200<br>50-160, 50-200<br>65-160. 65-200 |                                        |             |               | 12   |
|       |                           |                                                    |                                        |             |               |      |

Counterflange kit on request see p. 315

- [1] Only for 65-125/5.56 and 65-125/7.56  
 [2] See pag. 313  
 [3] EN 1.4301 (AISI 304) for 32, 40, 50 series;  
 EN 1.4401 (AISI 316) for 65 series  
 [4] See pag. 307÷301  
 [5] FPM for H, HS, HW, HSW version;  
 EPDM for E version

- [6] 0 for version 65-200/226  
 1 for version for 32, 40, 50, 65-125/5.56, 65-125/7.56, 65-160/116, 65-160/156, 65-200/156, 65-200/18.56  
 2 for version for 65-125/4, 65-160/7.5, 65-160/9.2  
 [7] Only for: 32-200, 40-200, 50-160  
 [8] Only for version 32-125/1.16, 32-160/1.56, 32-160/2.26, 40-125/1.56, 40-125/2.26, 50-125/2.26



**3DP SECTIONAL VIEW DRAWING**

## 3DP SECTIONAL VIEW TABLE

| N°   | PART NAME                   |                                                    | MATERIAL                               | DIMENSIONS  | STANDARD      | Q.TY |
|------|-----------------------------|----------------------------------------------------|----------------------------------------|-------------|---------------|------|
| 001  | Casing                      |                                                    | Cast iron EN-GJL-200-EN 1561           |             |               | 1    |
| 003  | Support                     |                                                    | Cast iron EN-GJL-200-EN 1561           |             |               | 1    |
| 004  | Casing cover                |                                                    | EN 1.4301 (AISI 304)                   |             |               | 1    |
| 006  | Shaft - Wet extension       |                                                    | EN 1.4301 (AISI 304)                   |             |               | 1    |
| 006A | Flexible coupling           |                                                    | Cast iron EN-GJL-250-EN 1561           | [1]         |               | 1    |
| 007  | Impeller                    |                                                    | [2]                                    |             |               | 1    |
| 011  | Mechanical seal             |                                                    | [3]                                    | [3]         |               | 1    |
| 012  | Motor                       |                                                    | -                                      |             |               | 1    |
| 019  | Bearing                     |                                                    | -                                      | [4]         |               | 1    |
| 020  | Bearing                     |                                                    | -                                      | [4]         |               | 1    |
| 024  | Priming plug                |                                                    | Brass                                  | G 3/8" L=8  | DIN 906       | 1    |
| 025  | Draing plug                 |                                                    | Brass                                  | G 3/8" L=8  | DIN 906       | 1    |
| 026  | "O" ring                    | 32-125, 40-125                                     | NBR [5]                                | 158.11x5.34 | OR 6625       | 1    |
|      |                             | 32-160, 40-160, 50-125, 65-125                     |                                        | 183.52x5.34 | OR 6720       |      |
|      |                             | 32-200, 40-200, 50-160, 50-200, 65-160, 65-200     |                                        | 227.96x5.34 | OR 6895       |      |
| 032  | Key                         | Up to 11 kW                                        | EN 1.4401 (AISI 316)                   | 6x6x25      | UNI 6604      | 1    |
|      |                             | 50-200/156                                         |                                        | 8x7x30      |               |      |
|      |                             | 15 kW and above                                    |                                        | 8x7x40      |               |      |
| 033  | Key                         |                                                    | C 40                                   | 8x7x40      | UNI 6604      | 1    |
| 034  | Impeller nut                | Up to 11kW                                         | EN 1.4301 (AISI 304)                   | M16x1.5     | UNI 7474      | 1    |
|      |                             | 50-200/156                                         |                                        | M18x1.5     |               |      |
|      |                             | 15 kW and above                                    |                                        | M20x1.5     |               |      |
| 042  | Pump support                |                                                    | Fe 37 Galvanized                       |             | EBARA DRAWING | 1    |
| 042A | Base                        |                                                    | Fe 37 Galvanized                       |             |               | 1    |
| 044  | Protection                  |                                                    | Fe 37 Galvanized                       |             |               | 1    |
| 050  | Foot                        |                                                    | Aluminium / Galvanized steel           |             |               | 1    |
| 058  | Cable gland                 |                                                    | -                                      |             |               | 1    |
| 066  | Impeller side bearing cover |                                                    | Cast iron EN-GJL-200-EN 1561           |             |               | 1    |
| 067  | Motor side bearing cover    |                                                    | Cast iron EN-GJL-200-EN 1561           |             |               | 1    |
| 072  | Casing ring [6]             |                                                    | EN 1.4301 (AISI 304)                   |             |               | 1    |
| 075  | Washer                      |                                                    | Aluminum                               | 22x17x1.5   | EBARA DRAWING | 1    |
| 076  | Washer                      |                                                    | Aluminum                               | 22x17x1.5   | EBARA DRAWING | 1    |
| 092  | "V" ring                    |                                                    | -                                      | VS - 0030   |               | 1    |
| 093  | "V" ring                    |                                                    | -                                      | VS - 0030   |               | 1    |
| 200  | Screw                       | 32-125<br>40-125                                   | Gv. Steel 8.8 strenght class ISO 898-1 | M 8x30      | UNI 5739      | 8    |
|      |                             | 32-160<br>40-160<br>50-125<br>65-125               |                                        | M 10x35     |               | 10   |
|      |                             | 32-200, 40-200<br>50-160, 50-200<br>65-160, 65-200 |                                        |             |               | 12   |
| 235  | Washer                      | 32-125<br>40-125                                   | Galvanized Steel                       | 8.4x17      | UNI 6592      | 8    |
|      |                             | 32-160<br>40-160<br>50-125<br>65-125               |                                        | 10.5x21     |               | 10   |
|      |                             | 32-200, 40-200<br>50-160, 50-200<br>65-160, 65-200 |                                        |             |               | 12   |

Counterflange kit on request see p. 315

[1] See pag. 314

[2] EN 1.4301 (AISI 304) for 32, 40, 50 series;  
EN 1.4401 (AISI 316) for 65 series

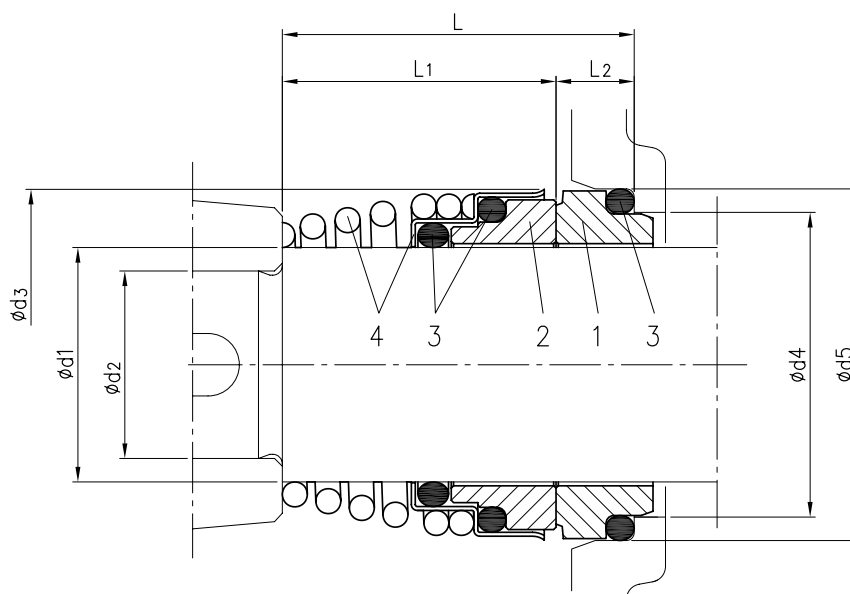
[3] See pag. 307-310

[4] See pag. 312

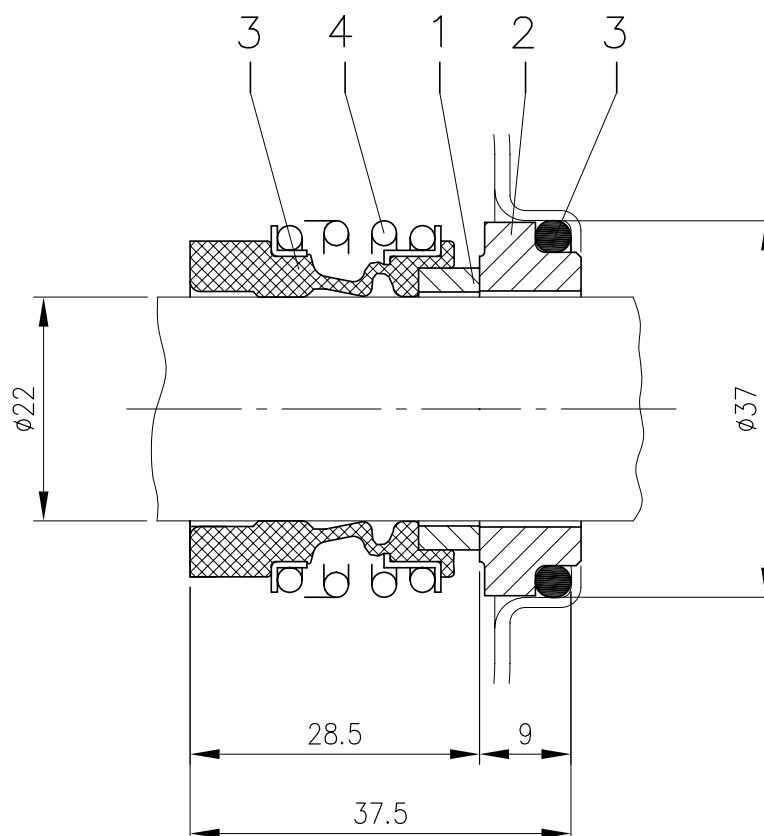
[5] FPM for H, HS, HW, HSW version;  
EPDM for E version

[6] Only for: 32-200, 40-200, 50-160

## MECHANICAL SEAL (standard, H, and E version)

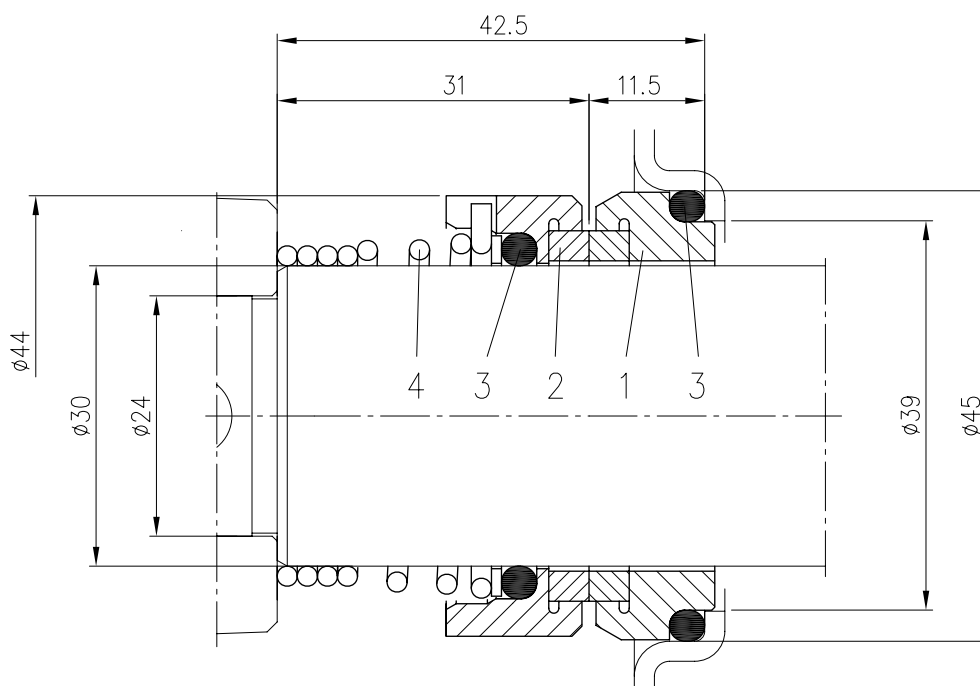


| Version  | Pumpp type                                                                                                    | Dimensions [ mm ] |    |    |    |    |      |      |    | Material                     |                          |             |                         |
|----------|---------------------------------------------------------------------------------------------------------------|-------------------|----|----|----|----|------|------|----|------------------------------|--------------------------|-------------|-------------------------|
|          |                                                                                                               | d1                | d2 | d3 | d4 | d5 | L    | L1   | L2 | 1<br>Stationary<br>seal ring | 2<br>Rotary<br>seal ring | 3<br>Rubber | 4<br>Frame +<br>Spring  |
| Standard | 32-125/160/200<br>40-125/160/200<br>50-125/160<br>65-125<br>65-160/9.26<br>65-160/116<br>65-160/156<br>65-200 | 22                | 19 | 38 | 31 | 37 | 37.5 | 27.5 | 10 | Carbon                       | Ceramic                  | NBR         | EN 1.4401<br>(AISI 316) |
|          |                                                                                                               | 30                | 24 | 46 | 39 | 45 | 42.5 | 32.5 | 10 |                              |                          |             |                         |
| H        | 32-125/160/200<br>40-125/160/200<br>50-125/160<br>65-125<br>65-160/9.26<br>65-160/116<br>65-160/156<br>65-200 | 22                | 19 | 38 | 31 | 37 | 37.5 | 27.5 | 10 | Carbon                       | Ceramic                  | FPM         | EN 1.4401<br>(AISI 316) |
|          |                                                                                                               | 30                | 24 | 46 | 39 | 45 | 42.5 | 32.5 | 10 |                              |                          |             |                         |
| E        | 32-125/160/200<br>40-125/160/200<br>50-125/160<br>65-125<br>65-160/9.26<br>65-160/116<br>65-160/156<br>65-200 | 22                | 19 | 38 | 31 | 37 | 37.5 | 27.5 | 10 | Carbon                       | Ceramic                  | EPDM        | EN 1.4401<br>(AISI 316) |
|          |                                                                                                               | 30                | 24 | 46 | 39 | 45 | 42.5 | 32.5 | 10 |                              |                          |             |                         |

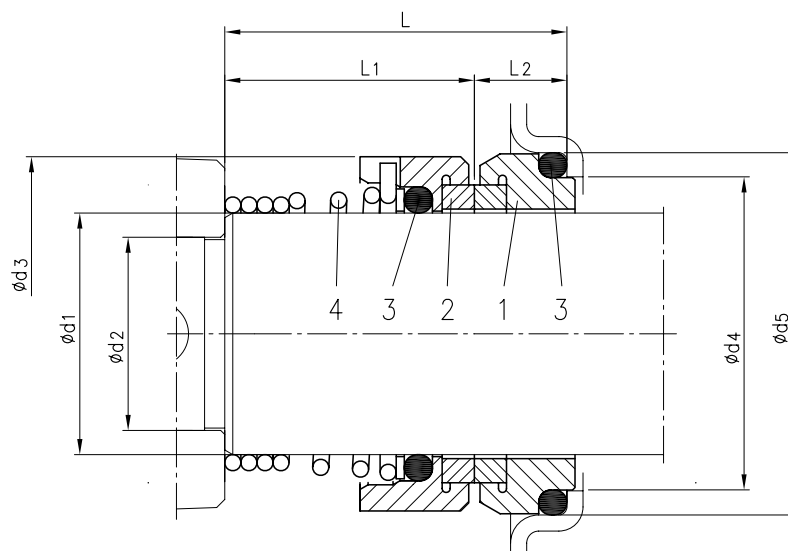
**MECHANICAL SEAL (HS version ø22)**

| Pump type                                                                             | Material                     |                          |             |                           |
|---------------------------------------------------------------------------------------|------------------------------|--------------------------|-------------|---------------------------|
|                                                                                       | 1<br>Stationary<br>seal ring | 2<br>Rotary<br>seal ring | 3<br>Rubber | 4<br>Frame<br>+ spring    |
| 32-125/160/200<br>40-125/160/200<br>50-125/160<br>65-125<br>65-160/9.26<br>65-160/116 | SiC                          | SiC                      | FPM         | EN 1.4571<br>(AISI 316Ti) |

## MECHANICAL SEAL (HS version ø30)



| Pump type            | Material                     |                          |             |                           |
|----------------------|------------------------------|--------------------------|-------------|---------------------------|
|                      | 1<br>Stationary<br>seal ring | 2<br>Rotary<br>seal ring | 3<br>Rubber | 4<br>Frame<br>+ spring    |
| 65-160/156<br>65-200 | SiC                          | SiC                      | FPM         | EN 1.4571<br>(AISI 316Ti) |

**MECHANICAL SEAL (HW and HSW version)**

| Version | Pump type                                                                             | Dimensions [ mm ] |    |    |    |    |      |      |    | Material                     |                          |             |                         |
|---------|---------------------------------------------------------------------------------------|-------------------|----|----|----|----|------|------|----|------------------------------|--------------------------|-------------|-------------------------|
|         |                                                                                       | d1                | d2 | d3 | d4 | d5 | L    | L1   | L2 | 1<br>Stationary<br>seal ring | 2<br>Rotary<br>seal ring | 3<br>Rubber | 4<br>Frame<br>+ spring  |
| HW      | 32-125/160/200<br>40-125/160/200<br>50-125/160<br>65-125<br>65-160/9.26<br>65-160/116 | 22                | 19 | 38 | 31 | 37 | 37.5 | 27.5 | 10 | Tungsten<br>Carbide          | Tungsten<br>Carbide      | FPM         | EN 1.4401<br>(AISI 316) |
|         | 65-160/156<br>65-200                                                                  | 30                | 24 | 46 | 39 | 45 | 42.5 | 32.5 | 10 |                              |                          |             |                         |
| HSW     | 32-125/160/200<br>40-125/160/200<br>50-125/160<br>65-125<br>65-160/9.26<br>65-160/116 | 22                | 19 | 38 | 31 | 37 | 37.5 | 27.5 | 10 | Tungsten<br>Carbide          | SiC                      | FPM         | EN 1.4401<br>(AISI 316) |
|         | 65-160/156<br>65-200                                                                  | 30                | 24 | 46 | 39 | 45 | 42.5 | 32.5 | 10 |                              |                          |             |                         |

**3D BEARINGS**

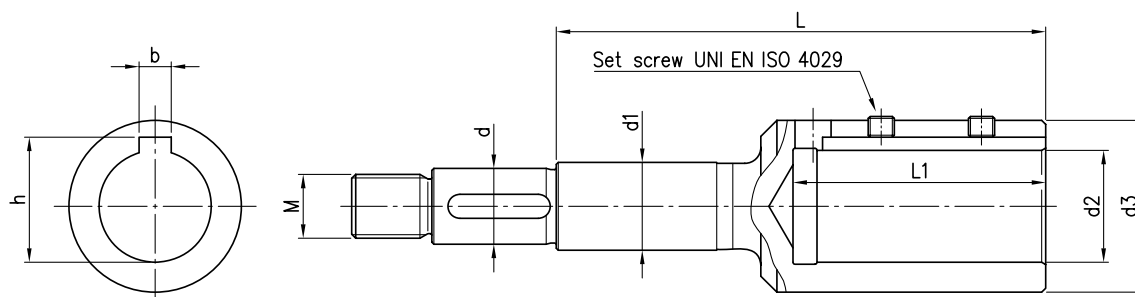
| Pump type       | Ball Bearing |           |
|-----------------|--------------|-----------|
|                 | Pump side    | Fan side  |
| 3D 32-125/2.26  | 6205-2RSH    | 6205-2RSH |
| 3D 32-160/3.06  |              |           |
| 3D 32-160/4.06  | 6206-2RSH    |           |
| 3D 32-200/5.56  | 6306-2RS1    | 6206-2RS1 |
| 3D 32-200/7.56  |              |           |
| 3D 40-125/3.06  | 6205-2RSH    | 6205-2RSH |
| 3D 40-125/4.06  | 6206-2RS1    |           |
| 3D 40-160/5.56  | 6306-2RS1    | 6206-2RS1 |
| 3D 40-160/7.56  |              |           |
| 3D 40-200/116   | 6308-ZZ      | 6208-ZZ   |
| 3D 40-200/156   | 6309-ZZ      | 6309-ZZ   |
| 3D 50-125/5.56  | 6306-2RS1    | 6206-2RS1 |
| 3D 50-125/7.56  |              |           |
| 3D 50-160/116   | 6308-ZZ      | 6208-ZZ   |
| 3D 50-160/156   | 6309-ZZ      | 6309-ZZ   |
| 3D 65-125/5.56  | 6306-2RS1    | 6206-2RS1 |
| 3D 65-125/7.56  |              |           |
| 3D 65-160/9.26  | 6308-ZZ      | 6208-ZZ   |
| 3D 65-160/116   |              |           |
| 3D 65-160/156   | 6309-ZZ      | 6309-ZZ   |
| 3D 65-200/156   |              |           |
| 3D 65-200/18.56 |              |           |
| 3D 65-200/226   |              |           |

## 3DS-3DP BEARINGS

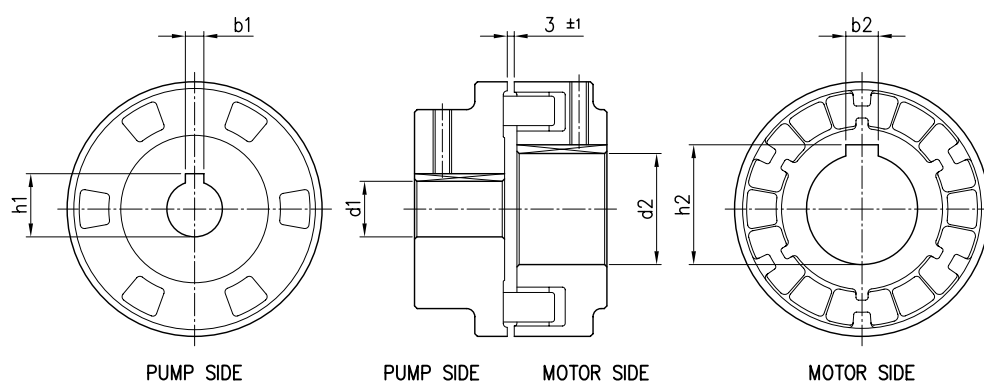
| Pump type        | Ball bearing |            | Pump type        | Ball bearing |            |            |            |
|------------------|--------------|------------|------------------|--------------|------------|------------|------------|
|                  | Pump side    | Fan side   |                  | Pump         |            | Motor      |            |
|                  |              |            |                  | Pump side    | Motor side | Pump side  | Fan side   |
| 3DS 32-125/2.26  | 6205-2Z C3   | 6205-2Z C3 | 3DP 32-125/2.26  | 6306-2RS1    | 6206-2RS1  | 6205-2Z C3 | 6205-2Z C3 |
| 3DS 32-160/3.06  | 6206-2Z C3   | 6206-2Z C3 | 3DP 32-160/3.06  |              |            | 6206-2Z C3 | 6206-2Z C3 |
| 3DS 32-160/4.06  | 6306-2Z C3   | 6306-2Z C3 | 3DP 32-160/4.06  |              |            | 6306-2Z C3 | 6306-2Z C3 |
| 3DS 32-200/5.56  | 6208-2Z C3   | 6208-2Z C3 | 3DP 32-200/5.56  |              |            | 6208-2Z C3 | 6208-2Z C3 |
| 3DS 32-200/7.56  |              |            | 3DP 32-200/7.56  |              |            |            |            |
| 3DS 40-125/3.06  | 6206-2Z C3   | 6206-2Z C3 | 3DP 40-125/3.06  | 6306-2RS1    | 6206-2RS1  | 6206-2Z C3 | 6206-2Z C3 |
| 3DS 40-125/4.06  | 6306-2Z C3   | 6306-2Z C3 | 3DP 40-125/4.06  |              |            | 6306-2Z C3 | 6306-2Z C3 |
| 3DS 40-160/5.56  | 6208-2Z C3   | 6208-2Z C3 | 3DP 40-160/5.56  |              |            | 6208-2Z C3 | 6208-2Z C3 |
| 3DS 40-160/7.56  |              |            | 3DP 40-160/7.56  |              |            |            |            |
| 3DS 40-200/116   | 6309-2Z C3   | 6309-2Z C3 | 3DP 40-200/116   |              |            | 6309-2Z C3 | 6309-2Z C3 |
| 3DS 40-200/156   |              |            | 3DP 40-200/156   |              |            |            |            |
| 3DS 50-125/5.56  | 6208-2Z C3   | 6208-2Z C3 | 3DP 50-125/5.56  | 6308-2RS1    | 6306-2RS1  | 6208-2Z C3 | 6208-2Z C3 |
| 3DS 50-125/7.56  |              |            | 3DP 50-125/7.56  |              |            |            |            |
| 3DS 50-160/116   | 6309-2Z C3   | 6309-2Z C3 | 3DP 50-160/116   |              |            | 6309-2Z C3 | 6309-2Z C3 |
| 3DS 50-160/156   |              |            | 3DP 50-160/156   |              |            |            |            |
| 3DS 65-125/5.56  | 6208-2Z C3   | 6208-2Z C3 | 3DP 65-125/5.56  |              |            | 6208-2Z C3 | 6208-2Z C3 |
| 3DS 65-125/7.56  |              |            | 3DP 65-125/7.56  |              |            |            |            |
| 3DS 65-160/9.26  |              |            | 3DP 65-160/9.26  |              |            |            |            |
| 3DS 65-160/116   | 6309-2Z C3   | 6309-2Z C3 | 3DP 65-160/116   | 6308-2RS1    | 6306-2RS1  | 6309-2Z C3 | 6309-2Z C3 |
| 3DS 65-160/156   |              |            | 3DP 65-160/156   |              |            |            |            |
| 3DS 65-200/156   |              |            | 3DP 65-200/156   |              |            |            |            |
| 3DS 65-200/18.56 |              |            | 3DP 65-200/18.56 |              |            |            |            |
| 3DS 65-200/226   | 6311 C3      | 6311 C3    | 3DP 65-200/226   |              |            | 6311 C3    | 6311 C3    |



## 3DS COUPLING



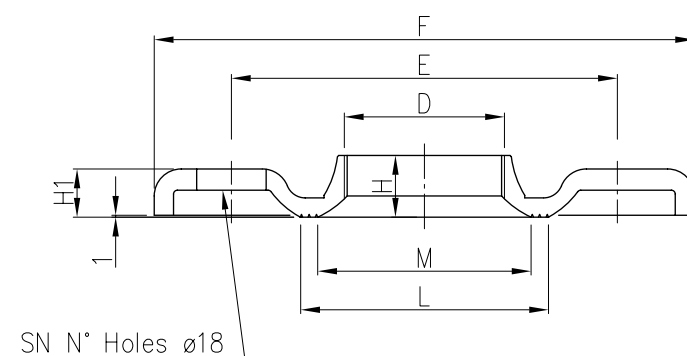
| Pump type    | Power  |        | Motor | Dimensions [ mm ] |                |                |                |         |     |                |    |      |           |  |
|--------------|--------|--------|-------|-------------------|----------------|----------------|----------------|---------|-----|----------------|----|------|-----------|--|
|              | [ kW ] | [ HP ] |       | d                 | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | M       | L   | L <sub>1</sub> | b  | h    | Set screw |  |
| 32-125/2.26  | 2.2    | 3      | 90    | 19                | 22             | 24             | 39             | M16x1.5 | 110 | 53             | 8  | 27.3 | M8x8      |  |
| 32-160/3.06  | 3      | 4      | 100   | 19                | 22             | 28             | 43             | M16x1.5 | 122 | 63             | 8  | 31.3 | M8x8      |  |
| 32-160/4.06  | 4      | 5.5    | 112   | 19                | 22             | 28             | 43             | M16x1.5 | 122 | 63             | 8  | 31.3 | M8x8      |  |
| 32-200/5.56  | 5.5    | 7.5    | 132   | 19                | 22             | 38             | 58             | M16x1.5 | 145 | 84             | 10 | 41.3 | M8x8      |  |
| 32-200/7.56  | 7.5    | 10     | 132   | 19                | 22             | 38             | 58             | M16x1.5 | 145 | 84             | 10 | 41.3 | M8x8      |  |
| 40-125/3.06  | 3      | 4      | 100   | 19                | 22             | 28             | 43             | M16x1.5 | 122 | 63             | 8  | 31.3 | M8x8      |  |
| 40-125/4.06  | 4      | 5.5    | 112   | 19                | 22             | 28             | 43             | M16x1.5 | 122 | 63             | 8  | 31.3 | M8x8      |  |
| 40-160/5.56  | 5.5    | 7.5    | 132   | 19                | 22             | 38             | 58             | M16x1.5 | 145 | 84             | 10 | 41.3 | M8x8      |  |
| 40-160/7.56  | 7.5    | 10     | 132   | 19                | 22             | 38             | 58             | M16x1.5 | 145 | 84             | 10 | 41.3 | M8x8      |  |
| 40-200/116   | 11     | 15     | 160   | 19                | 22             | 42             | 63             | M16x1.5 | 178 | 114            | 12 | 45.3 | M8x8      |  |
| 40-200/156   | 15     | 20     | 160   | 19                | 22             | 42             | 63             | M16x1.5 | 178 | 114            | 12 | 45.3 | M8x8      |  |
| 50-125/5.56  | 5.5    | 7.5    | 132   | 19                | 22             | 38             | 58             | M16x1.5 | 145 | 84             | 10 | 41.3 | M8x8      |  |
| 50-125/7.56  | 7.5    | 10     | 132   | 19                | 22             | 38             | 58             | M16x1.5 | 145 | 84             | 10 | 41.3 | M8x8      |  |
| 50-160/116   | 11     | 15     | 160   | 19                | 22             | 42             | 63             | M16x1.5 | 178 | 114            | 12 | 45.3 | M8x8      |  |
| 50-160/156   | 15     | 20     | 160   | 19                | 22             | 42             | 63             | M16x1.5 | 178 | 114            | 12 | 45.3 | M8x8      |  |
| 65-125/5.56  | 5.5    | 7.5    | 132   | 19                | 22             | 38             | 58             | M16x1.5 | 145 | 84             | 10 | 41.3 | M8x8      |  |
| 65-125/7.56  | 7.5    | 10     | 132   | 19                | 22             | 38             | 58             | M16x1.5 | 145 | 84             | 10 | 41.3 | M8x8      |  |
| 65-160/9.26  | 9.2    | 12.5   | 132   | 19                | 22             | 38             | 58             | M16x1.5 | 145 | 84             | 10 | 41.3 | M8x8      |  |
| 65-160/116   | 11     | 15     | 160   | 19                | 22             | 42             | 63             | M16x1.5 | 178 | 114            | 12 | 45.3 | M8x8      |  |
| 65-160/156   | 15     | 20     | 160   | 24                | 30             | 42             | 63             | M20x1.5 | 184 | 114            | 12 | 45.3 | M8x8      |  |
| 65-200/156   | 15     | 20     | 160   | 24                | 30             | 42             | 63             | M20x1.5 | 184 | 114            | 12 | 45.3 | M8x8      |  |
| 65-200/18.56 | 18.5   | 25     | 160   | 24                | 30             | 42             | 63             | M20x1.5 | 184 | 114            | 12 | 45.3 | M8x8      |  |
| 65-200/226   | 22     | 30     | 180   | 24                | 30             | 48             | 72             | M20x1.5 | 184 | 114            | 14 | 51.8 | M10x10    |  |

**3DP FLEXIBLE COUPLING**

| Pump type    | Power  |        | Motor Size | Dimensions [ mm ] |    |      |    |    |      |
|--------------|--------|--------|------------|-------------------|----|------|----|----|------|
|              | [ KW ] | [ HP ] |            | d1                | b1 | h1   | d2 | b2 | h2   |
| 32-125/2.26  | 2.2    | 3      | 90         | 24                | 8  | 27.3 | 24 | 8  | 27.3 |
| 32-160/3.06  | 3      | 4      | 100        | 24                | 8  | 27.3 | 28 | 8  | 31.3 |
| 32-160/4.06  | 4      | 5.5    | 112        | 24                | 8  | 27.3 | 28 | 8  | 31.3 |
| 32-200/5.56  | 5.5    | 7.5    | 132        | 24                | 8  | 27.3 | 38 | 10 | 41.3 |
| 32-200/7.56  | 7.5    | 10     | 132        | 24                | 8  | 27.3 | 38 | 10 | 41.3 |
| 40-125/3.06  | 3      | 4      | 100        | 24                | 8  | 27.3 | 28 | 8  | 31.3 |
| 40-125/4.06  | 4      | 5.5    | 112        | 24                | 8  | 27.3 | 28 | 8  | 31.3 |
| 40-160/5.56  | 5.5    | 7.5    | 132        | 24                | 8  | 27.3 | 38 | 10 | 41.3 |
| 40-160/7.56  | 7.5    | 10     | 132        | 24                | 8  | 27.3 | 38 | 10 | 41.3 |
| 40-200/116   | 11     | 15     | 160        | 24                | 8  | 27.3 | 42 | 12 | 45.3 |
| 40-200/156   | 15     | 20     | 160        | 24                | 8  | 27.3 | 42 | 12 | 45.3 |
| 50-125/5.56  | 5.5    | 7.5    | 132        | 24                | 8  | 27.3 | 38 | 10 | 41.3 |
| 50-125/7.56  | 7.5    | 10     | 132        | 24                | 8  | 27.3 | 38 | 10 | 41.3 |
| 50-160/116   | 11     | 15     | 160        | 24                | 8  | 27.3 | 42 | 12 | 45.3 |
| 50-160/156   | 15     | 20     | 160        | 24                | 8  | 27.3 | 42 | 12 | 45.3 |
| 65-125/5.56  | 5.5    | 7.5    | 132        | 24                | 8  | 27.3 | 38 | 10 | 41.3 |
| 65-125/7.56  | 7.5    | 10     | 132        | 24                | 8  | 27.3 | 38 | 10 | 41.3 |
| 65-160/9.26  | 9.2    | 12.5   | 132        | 24                | 8  | 27.3 | 38 | 10 | 41.3 |
| 65-160/116   | 11     | 15     | 160        | 24                | 8  | 27.3 | 42 | 12 | 45.3 |
| 65-160/156   | 15     | 20     | 160        | 24                | 8  | 27.3 | 42 | 12 | 45.3 |
| 65-200/156   | 15     | 20     | 160        | 24                | 8  | 27.3 | 42 | 12 | 45.3 |
| 65-200/18.56 | 18.5   | 25     | 160        | 24                | 8  | 27.3 | 42 | 12 | 45.3 |
| 65-200/226   | 22     | 30     | 180        | 24                | 8  | 27.3 | 48 | 14 | 51.8 |

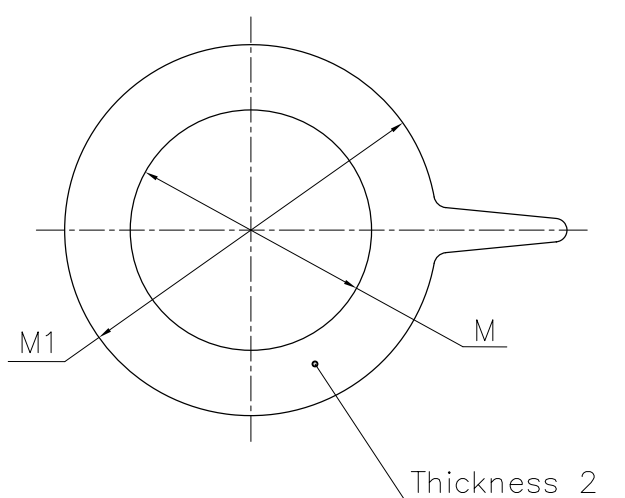
## FITTINGS

## COUNTERFLANGES GALVANIZED STEEL



| Dimensions |       |     |     |      |      |       |     |    | Screws    |                                              |
|------------|-------|-----|-----|------|------|-------|-----|----|-----------|----------------------------------------------|
| DN         | D     | E   | F   | H    | H1   | L     | M   | SN | DIMENSION | MATERIAL                                     |
| 32         | G 1 ¼ | 100 | 140 | 15   | 11.5 | 67    | 50  | 4  | M16x55    | Gv. Steel 8.8<br>Strenght class<br>ISO 898-1 |
| 40         | G 1 ½ | 110 | 150 | 17.5 | 11.5 | 72    | 58  | 4  |           |                                              |
| 50         | G 2   | 125 | 165 | 19   | 15   | 89    | 70  | 4  |           |                                              |
| 65         | G 2 ½ | 145 | 185 | 23   | 14   | 104   | 88  | 4  |           |                                              |
| 80         | G 3   | 160 | 200 | 24   | 14.5 | 117.5 | 100 | 4  |           |                                              |

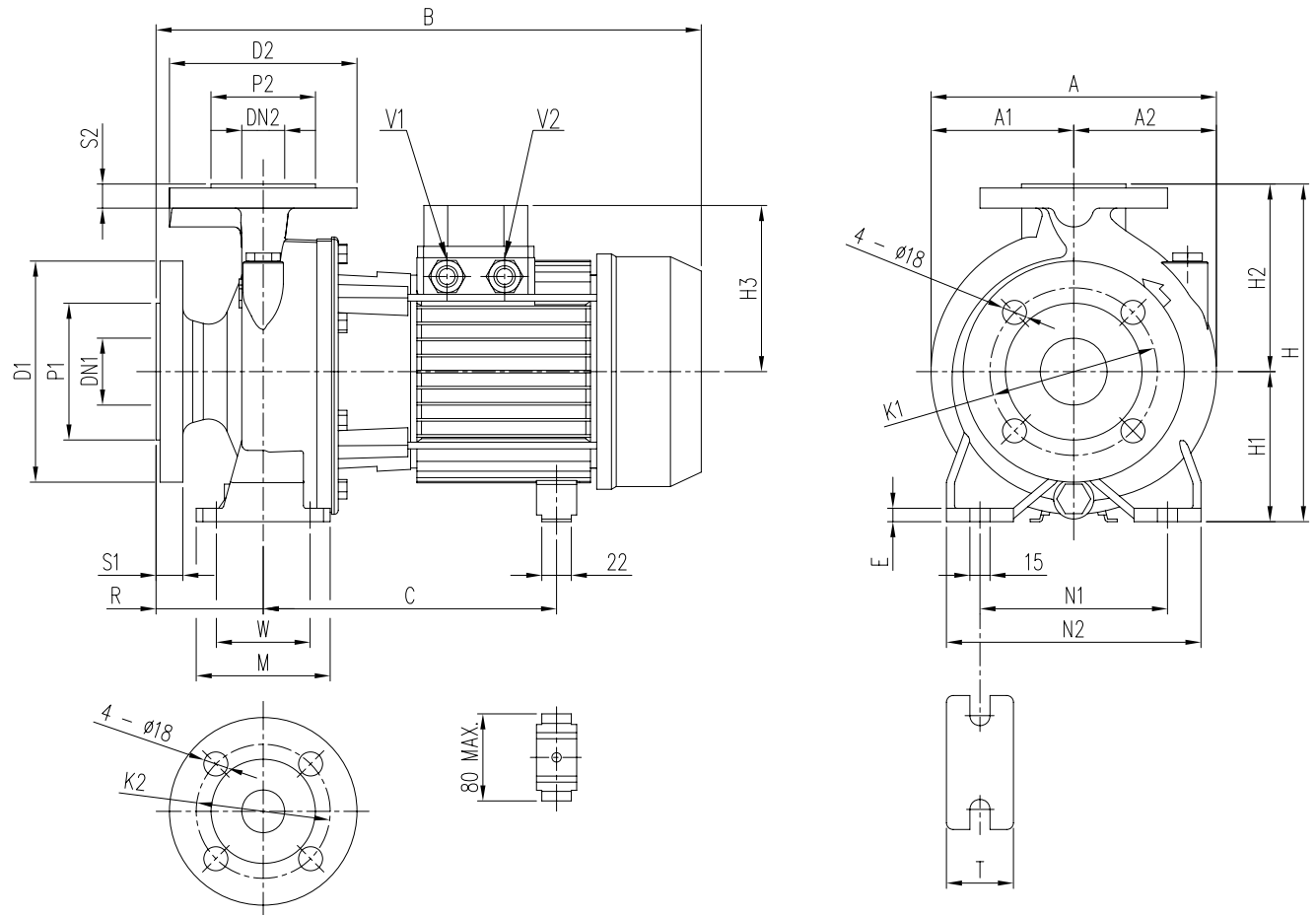
## GASKETS



| DN | M  | M1  |
|----|----|-----|
| 32 | 38 | 82  |
| 40 | 50 | 93  |
| 50 | 60 | 107 |
| 65 | 80 | 125 |
| 80 | 90 | 140 |

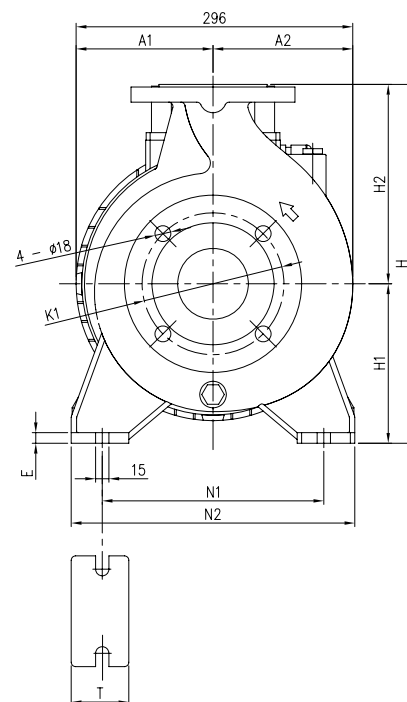
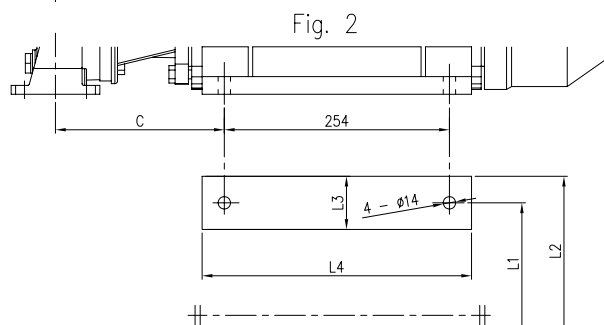
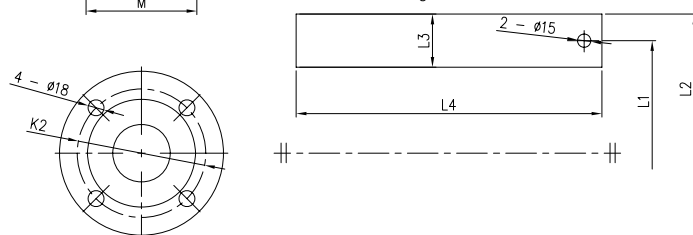
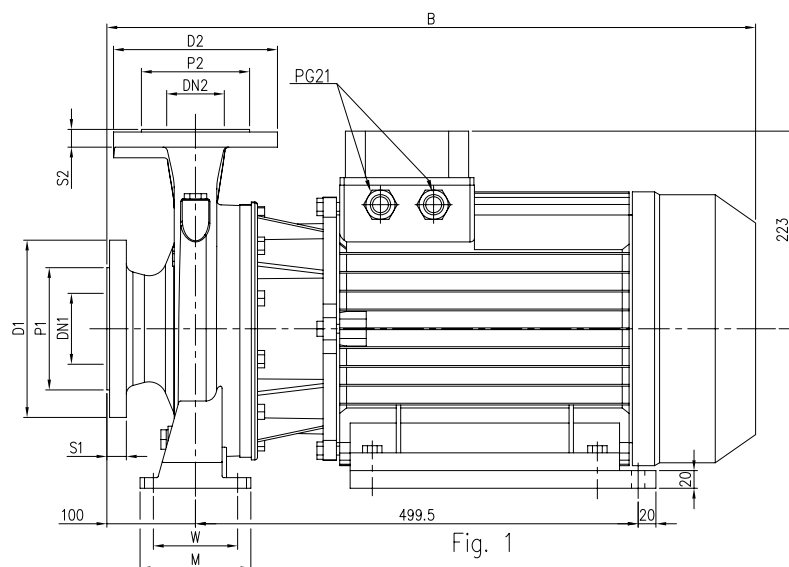
Material: EPDM for standard version  
FPM for hot water version

## PUMP 3D up to 11 kW



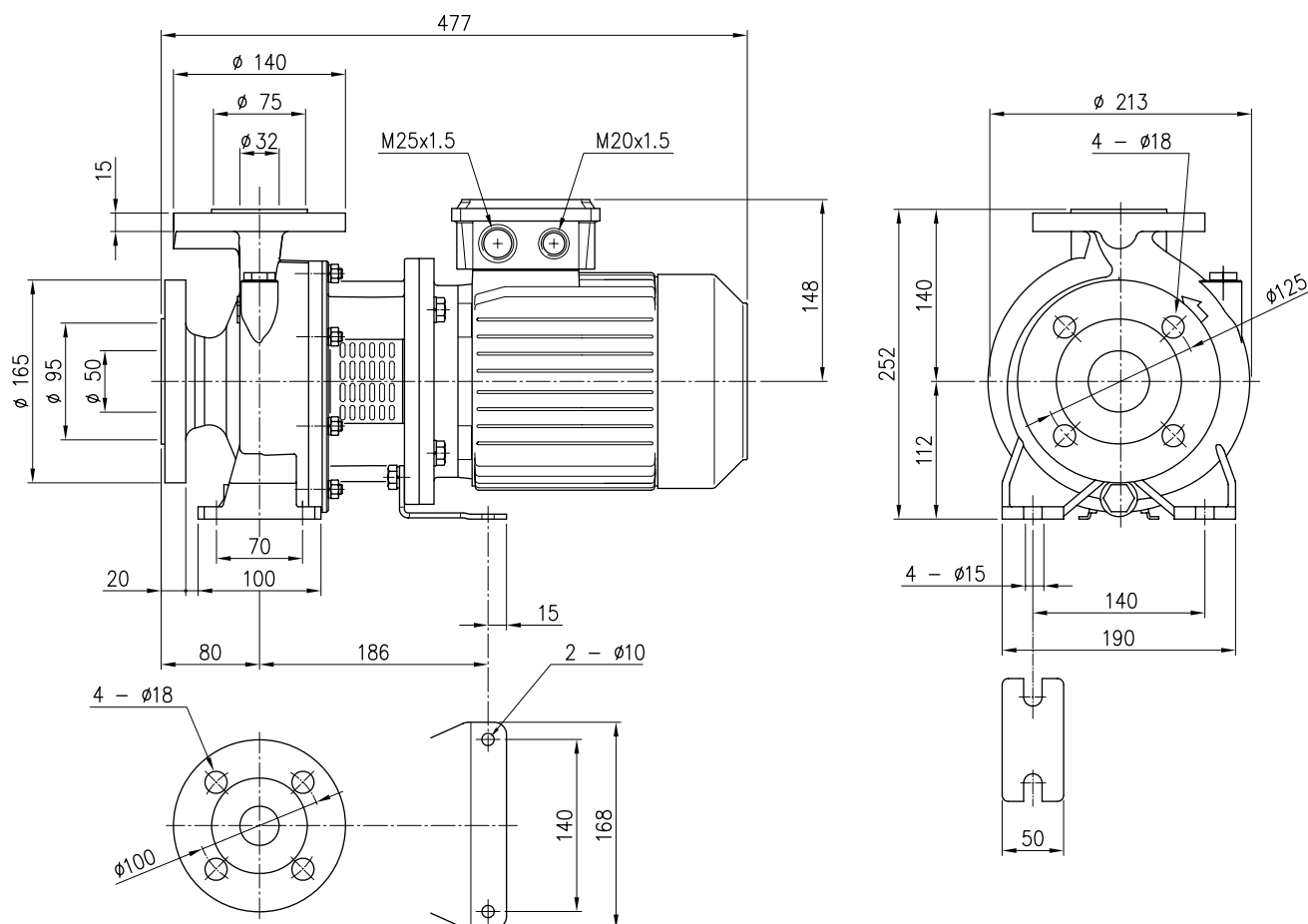
| Pump type   | Dimensions [ mm ] |         |         |         |    |          |         |         |         |    |     |     |     |     |     |    |     |     |     |    |    |     |     |     |     |         |        |         | Weight<br>[ kgf ] |
|-------------|-------------------|---------|---------|---------|----|----------|---------|---------|---------|----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|----|-----|-----|-----|-----|---------|--------|---------|-------------------|
|             | Ø<br>DN1          | Ø<br>P1 | Ø<br>K1 | Ø<br>D1 | S1 | Ø<br>DN2 | Ø<br>P2 | Ø<br>K2 | Ø<br>D2 | S2 | H   | H1  | H2  | H3  | R   | W  | M   | N1  | N2  | T  | E  | A   | A1  | A2  | B   | C       | V1     | V2      |                   |
| 32-125/2.26 | 50                | 102     | 125     | 165     | 20 | 32       | 78      | 100     | 140     | 18 | 252 | 112 | 140 | 124 | 80  | 70 | 100 | 140 | 190 | 50 | 10 | 213 | 107 | 107 | 432 | 244÷255 | -      | PG 13.5 | 31.0              |
| 32-160/3.06 | 50                | 102     | 125     | 165     | 20 | 32       | 78      | 100     | 140     | 18 | 292 | 132 | 160 | 124 | 80  | 70 | 100 | 190 | 240 | 50 | 10 | 254 | 127 | 127 | 471 | 244÷255 | -      | PG 13.5 | 37.6              |
| 32-160/4.06 | 50                | 102     | 125     | 165     | 20 | 32       | 78      | 100     | 140     | 18 | 292 | 132 | 160 | 141 | 80  | 70 | 100 | 190 | 240 | 50 | 10 | 254 | 127 | 127 | 494 | 253     | -      | PG 16   | 45.9              |
| 32-200/5.56 | 50                | 102     | 125     | 165     | 20 | 32       | 78      | 100     | 140     | 18 | 340 | 160 | 180 | 150 | 80  | 70 | 100 | 190 | 240 | 50 | 10 | 296 | 148 | 148 | 519 | 275     | PG13.5 | PG 16   | 59.9              |
| 32-200/7.56 | 50                | 102     | 125     | 165     | 20 | 32       | 78      | 100     | 140     | 18 | 340 | 160 | 180 | 150 | 80  | 70 | 100 | 190 | 240 | 50 | 10 | 296 | 148 | 148 | 519 | 275     | PG13.5 | PG 16   | 59.4              |
| 40-125/3.06 | 65                | 122     | 145     | 185     | 20 | 40       | 88      | 110     | 150     | 18 | 252 | 112 | 140 | 124 | 80  | 70 | 100 | 160 | 210 | 50 | 10 | 213 | 108 | 112 | 471 | 244÷255 | -      | PG 13.5 | 32.1              |
| 40-125/4.06 | 65                | 122     | 145     | 185     | 20 | 40       | 88      | 110     | 150     | 18 | 252 | 112 | 140 | 141 | 80  | 70 | 100 | 160 | 210 | 50 | 10 | 213 | 108 | 112 | 494 | 253     | -      | PG 16   | 45.7              |
| 40-160/5.56 | 65                | 122     | 145     | 185     | 20 | 40       | 88      | 110     | 150     | 18 | 292 | 132 | 160 | 150 | 80  | 70 | 100 | 190 | 240 | 50 | 12 | 254 | 127 | 127 | 519 | 275     | PG13.5 | PG 16   | 54.3              |
| 40-160/7.56 | 65                | 122     | 145     | 185     | 20 | 40       | 88      | 110     | 150     | 18 | 292 | 132 | 160 | 150 | 80  | 70 | 100 | 190 | 240 | 50 | 12 | 254 | 127 | 127 | 519 | 275     | PG13.5 | PG 16   | 62.2              |
| 40-200/11.6 | 65                | 122     | 145     | 185     | 20 | 40       | 88      | 110     | 150     | 18 | 340 | 160 | 180 | 178 | 100 | 70 | 100 | 212 | 265 | 50 | 12 | 296 | 148 | 148 | 595 | 359     | PG13.5 | PG 21   | 74.7              |
| 50-125/5.56 | 65                | 122     | 145     | 185     | 20 | 50       | 102     | 125     | 165     | 20 | 292 | 132 | 160 | 150 | 100 | 70 | 100 | 190 | 240 | 50 | 10 | 254 | 127 | 127 | 539 | 275     | PG13.5 | PG 16   | 56.2              |
| 50-125/7.56 | 65                | 122     | 145     | 185     | 20 | 50       | 102     | 125     | 165     | 20 | 292 | 132 | 160 | 150 | 100 | 70 | 100 | 190 | 240 | 50 | 10 | 254 | 127 | 127 | 539 | 275     | PG13.5 | PG 16   | 62.8              |
| 50-160/11.6 | 65                | 122     | 145     | 185     | 20 | 50       | 102     | 125     | 165     | 20 | 340 | 160 | 180 | 178 | 100 | 70 | 100 | 212 | 265 | 50 | 10 | 296 | 148 | 148 | 595 | 359     | PG13.5 | PG 21   | 76.6              |
| 65-125/5.56 | 80                | 138     | 160     | 200     | 22 | 65       | 122     | 145     | 185     | 20 | 340 | 160 | 180 | 150 | 100 | 95 | 125 | 212 | 280 | 65 | 12 | 254 | 127 | 136 | 539 | 275     | PG13.5 | PG 16   | 67.3              |
| 65-125/7.56 | 80                | 138     | 160     | 200     | 22 | 65       | 122     | 145     | 185     | 20 | 340 | 160 | 180 | 150 | 100 | 95 | 125 | 212 | 280 | 65 | 23 | 254 | 127 | 136 | 539 | 275     | PG13.5 | PG 16   | 68.3              |
| 65-160/9.26 | 80                | 138     | 160     | 200     | 22 | 65       | 122     | 145     | 185     | 20 | 360 | 160 | 200 | 178 | 100 | 95 | 125 | 212 | 280 | 65 | 12 | 296 | 148 | 148 | 595 | 359     | PG13.5 | PG 21   | 71.9              |
| 65-160/11.6 | 80                | 138     | 160     | 200     | 22 | 65       | 122     | 145     | 185     | 20 | 360 | 160 | 200 | 178 | 100 | 95 | 125 | 212 | 280 | 65 | 12 | 296 | 148 | 148 | 595 | 359     | PG13.5 | PG 21   | 81.0              |

## PUMP 3D 15 kW and above



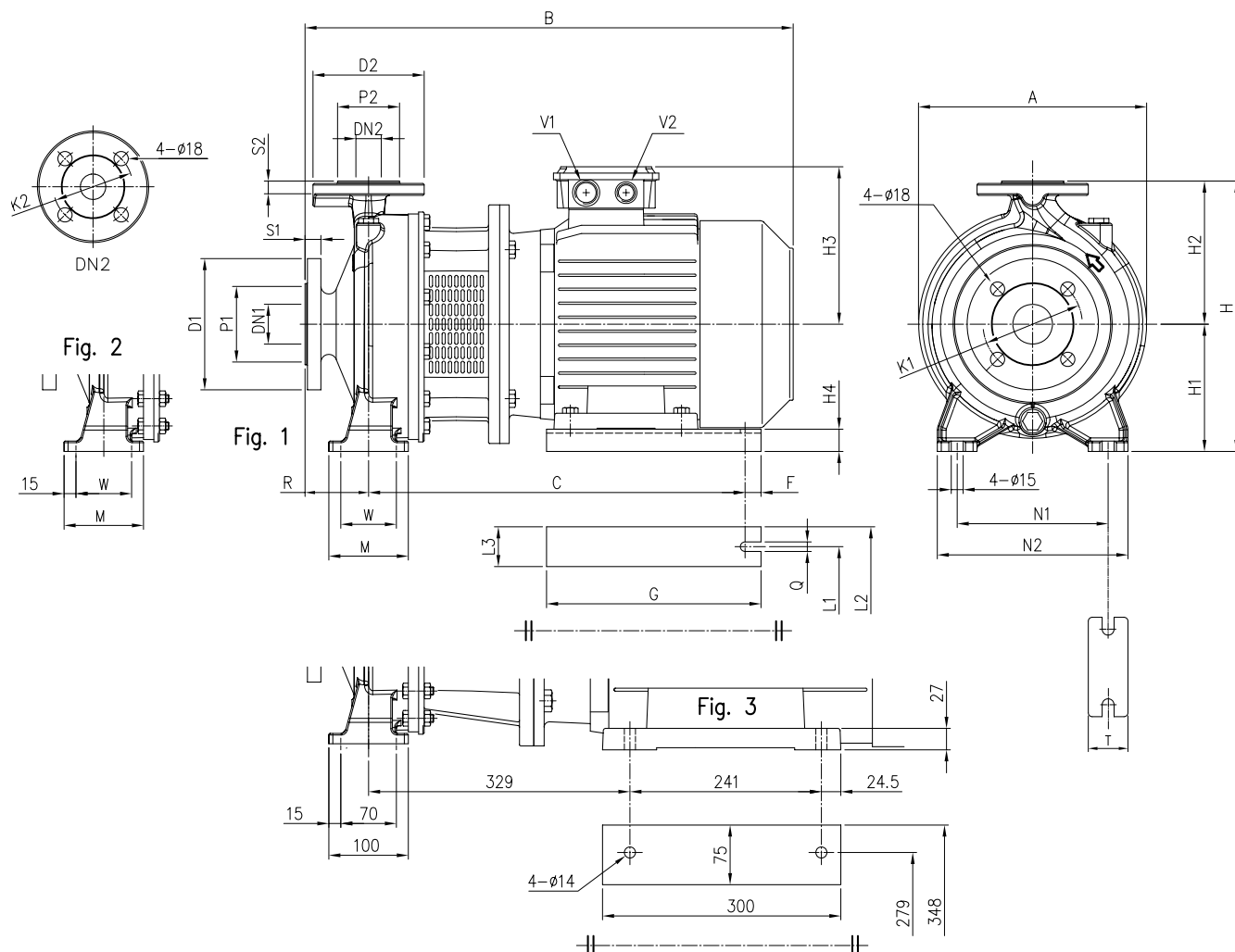
| Pump type    | Dimensions [ mm ] |      |      |      |    |       |      |      |      |    |      |     |     |     |    |     |     |     |    |    |       |       |     |       |     |     |    |     | Weight [ kgf ] |
|--------------|-------------------|------|------|------|----|-------|------|------|------|----|------|-----|-----|-----|----|-----|-----|-----|----|----|-------|-------|-----|-------|-----|-----|----|-----|----------------|
|              | Ø DN1             | Ø P1 | Ø K1 | Ø D1 | S1 | Ø DN2 | Ø P2 | Ø K2 | Ø D2 | S2 | Fig. | H   | H1  | H2  | W  | M   | N1  | N2  | T  | E  | A1    | A2    | B   | C     | L1  | L2  | L3 | L4  |                |
| 40-200/156   | 65                | 122  | 145  | 185  | 20 | 40    | 88   | 110  | 150  | 18 | 2    | 340 | 160 | 180 | 70 | 100 | 212 | 265 | 50 | 12 | 148   | 148   | 723 | 190.5 | 254 | 318 | 64 | 304 | 115.7          |
| 50-160/156   | 65                | 122  | 145  | 185  | 20 | 50    | 102  | 125  | 165  | 20 | 2    | 340 | 160 | 180 | 70 | 100 | 212 | 265 | 50 | 10 | 148   | 148   | 723 | 190.5 | 254 | 318 | 64 | 304 | 93.1           |
| 65-160/156   | 80                | 138  | 160  | 200  | 22 | 65    | 122  | 145  | 185  | 20 | 2    | 360 | 160 | 200 | 95 | 125 | 212 | 280 | 65 | 12 | 148   | 148   | 732 | 199.5 | 254 | 318 | 64 | 304 | 119.0          |
| 65-200/156   | 80                | 138  | 160  | 200  | 22 | 65    | 122  | 145  | 185  | 20 | 1    | 405 | 180 | 225 | 95 | 125 | 250 | 320 | 65 | 12 | 154.5 | 157.5 | 732 | -     | 254 | 314 | 60 | 345 | 122.5          |
| 65-200/18.56 | 80                | 138  | 160  | 200  | 22 | 65    | 122  | 145  | 185  | 20 | 1    | 405 | 180 | 225 | 95 | 125 | 250 | 320 | 65 | 12 | 154.5 | 157.5 | 732 | -     | 254 | 314 | 60 | 345 | 136.5          |
| 65-200/226   | 80                | 138  | 160  | 200  | 22 | 65    | 122  | 145  | 185  | 20 | 1    | 405 | 180 | 225 | 95 | 125 | 250 | 320 | 65 | 12 | 154.5 | 157.5 | 732 | -     | 254 | 314 | 60 | 345 | 144.5          |

## PUMP 3DS 32-125/2.26



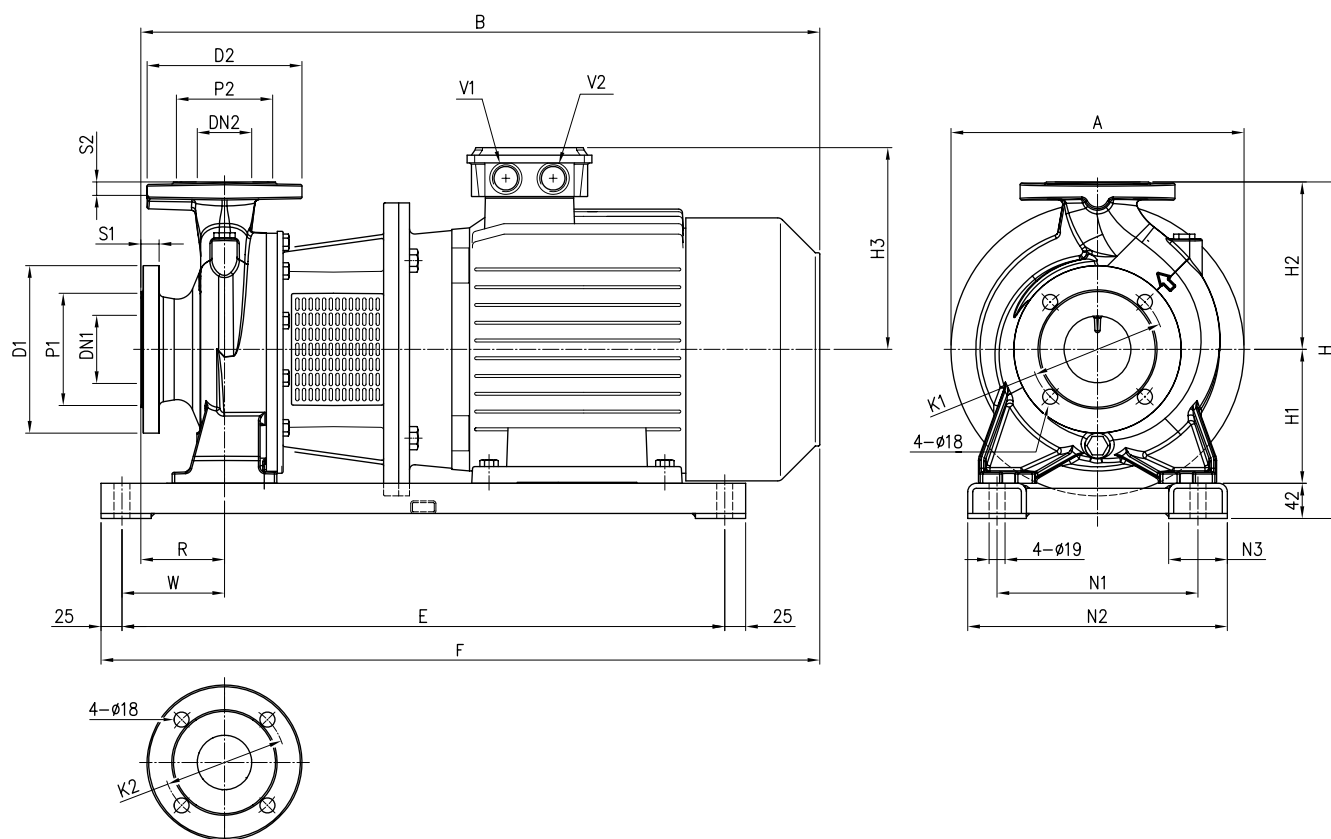
Pump weight: 40.3 kgf

## PUMP 3DS 32, 65



| Pump type    | Dimensions [ mm ] |         |         |         |    |          |         |         |         |    |      |     |     |     |     |    |     |    |     |     |     |    |     |     |     |    |     |    |     |     |    |         | Weight<br>[ kg ] |         |       |
|--------------|-------------------|---------|---------|---------|----|----------|---------|---------|---------|----|------|-----|-----|-----|-----|----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|----|-----|-----|----|---------|------------------|---------|-------|
|              | Ø<br>DN1          | Ø<br>P1 | Ø<br>K1 | Ø<br>D1 | S1 | Ø<br>DN2 | Ø<br>P2 | Ø<br>K2 | Ø<br>D2 | S2 | Fig. | H   | H1  | H2  | H3  | H4 | R   | W  | M   | N1  | N2  | T  | A   | B   | C   | F  | G   | Q  | L1  | L2  | L3 | V1      |                  | V2      |       |
| 32-160/3.06  | 50                | 102     | 125     | 165     | 20 | 32       | 78      | 100     | 140     | 18 | 1    | 292 | 132 | 160 | 155 | 32 | 80  | 70 | 100 | 190 | 240 | 50 | 254 | 528 | 388 | 15 | 220 | 12 | 160 | 200 | 40 | M25X1.5 | M20X1.5          | 49.8    |       |
| 32-160/4.06  | 50                | 102     | 125     | 165     | 20 | 32       | 78      | 100     | 140     | 18 | 1    | 292 | 132 | 160 | 171 | 20 | 80  | 70 | 100 | 190 | 240 | 50 | 254 | 550 | 395 | 15 | 220 | 12 | 190 | 240 | 50 | M25X1.5 | M20X1.5          | 51.4    |       |
| 32-200/5.56  | 50                | 102     | 125     | 165     | 20 | 32       | 78      | 100     | 140     | 18 | 1    | 340 | 160 | 180 | 198 | 28 | 80  | 70 | 100 | 190 | 240 | 50 | 300 | 607 | 479 | 15 | 270 | 12 | 216 | 266 | 50 | M32X1.5 | M32X1.5          | 83.2    |       |
| 32-200/7.56  | 50                | 102     | 125     | 165     | 20 | 32       | 78      | 100     | 140     | 18 | 1    | 340 | 160 | 180 | 198 | 28 | 80  | 70 | 100 | 190 | 240 | 50 | 300 | 607 | 479 | 15 | 270 | 12 | 216 | 266 | 50 | M32X1.5 | M32X1.5          | 96.4    |       |
| 65-125/5.56  | 80                | 138     | 160     | 200     | 22 | 65       | 122     | 145     | 185     | 20 | 2    | 340 | 160 | 180 | 198 | 28 | 100 | 95 | 125 | 212 | 280 | 65 | 300 | 627 | 479 | 15 | 270 | 12 | 216 | 266 | 50 | M32X1.5 | M32X1.5          | 75.3    |       |
| 65-125/7.56  | 80                | 138     | 160     | 200     | 22 | 65       | 122     | 145     | 185     | 20 | 2    | 340 | 160 | 180 | 198 | 28 | 100 | 95 | 125 | 212 | 280 | 65 | 300 | 627 | 479 | 15 | 270 | 12 | 216 | 266 | 50 | M32X1.5 | M32X1.5          | 92.7    |       |
| 65-160/9.26  | 80                | 138     | 160     | 200     | 22 | 65       | 122     | 145     | 185     | 20 | 2    | 360 | 160 | 200 | 198 | 28 | 100 | 95 | 125 | 212 | 280 | 65 | 300 | 667 | 479 | 15 | 270 | 12 | 216 | 266 | 50 | M32X1.5 | M32X1.5          | 103.0   |       |
| 65-200/156   | 80                | 138     | 160     | 200     | 22 | 65       | 122     | 145     | 185     | 20 | 2    | 405 | 180 | 225 | 238 | 20 | 100 | 95 | 125 | 250 | 320 | 65 | 350 | 806 | 621 | 20 | 350 | 14 | 254 | 314 | 60 | M40X1.5 | M40X1.5          | 137.6   |       |
| 65-200/18.56 | 80                | 138     | 160     | 200     | 22 | 65       | 122     | 145     | 185     | 20 | 2    | 405 | 180 | 225 | 238 | 20 | 100 | 95 | 125 | 250 | 320 | 65 | 350 | 850 | 621 | 20 | 350 | 14 | 254 | 314 | 60 | M40X1.5 | M40X1.5          | 147.2   |       |
| 65-200/226   | 80                | 138     | 160     | 200     | 22 | 65       | 122     | 145     | 185     | 20 | 3    | 405 | 180 | 225 | 268 | -  | 100 | -  | -   | 250 | 320 | 65 | 360 | 885 | -   | -  | -   | -  | -   | -   | -  | -       | M32X1.5          | M32X1.5 | 184.5 |

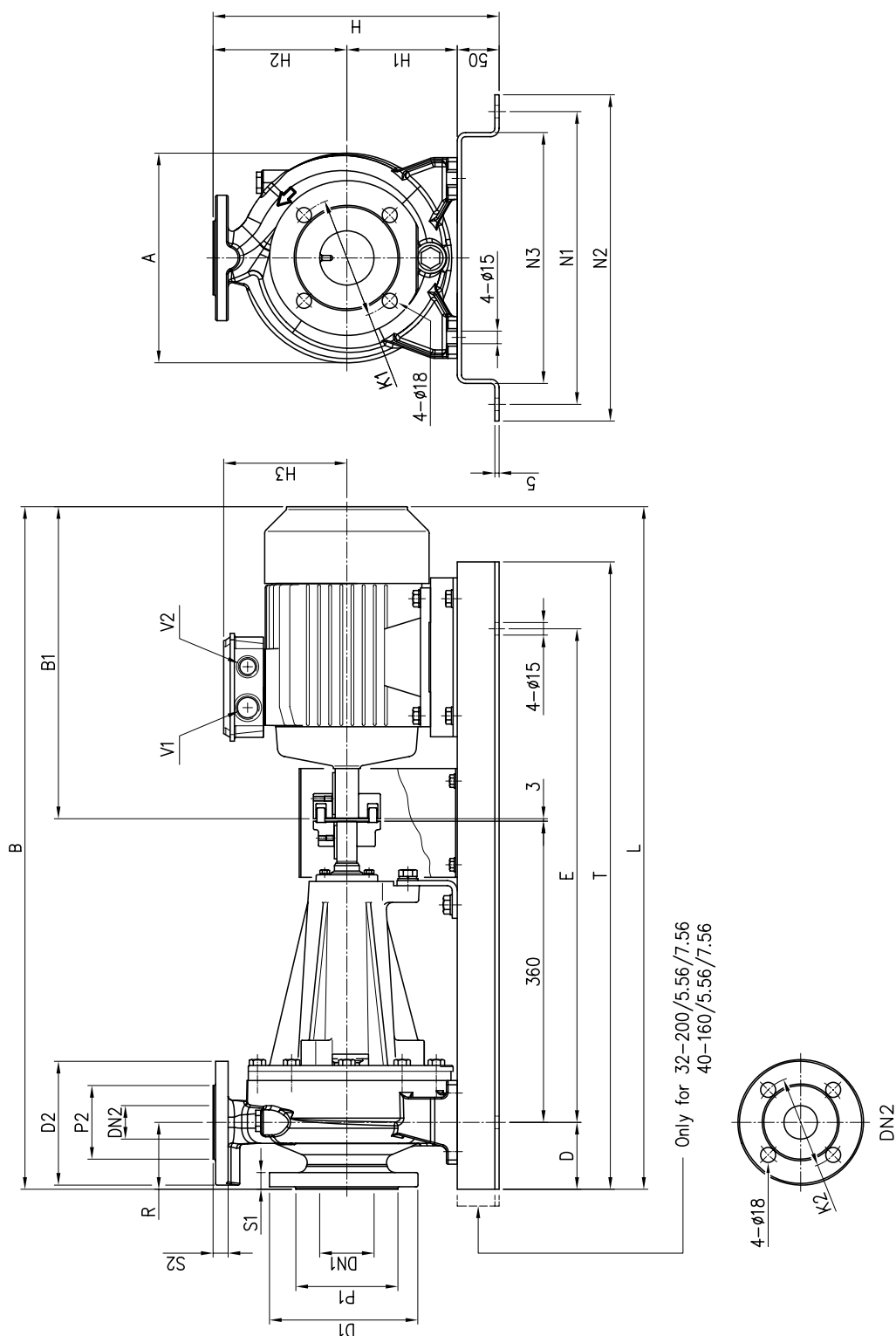
## PUMP 3DS 40, 50, 65



| Pump type   | Dimensions [ mm ] |         |         |         |    |          |         |         |         |    |     |     |     |     |     |       |     |     |    |     |     |     |     |         |         | Weight<br>[ kgf ] |
|-------------|-------------------|---------|---------|---------|----|----------|---------|---------|---------|----|-----|-----|-----|-----|-----|-------|-----|-----|----|-----|-----|-----|-----|---------|---------|-------------------|
|             | Ø<br>DN1          | Ø<br>P1 | Ø<br>K1 | Ø<br>D1 | S1 | Ø<br>DN2 | Ø<br>P2 | Ø<br>K2 | Ø<br>D2 | S2 | H   | H1  | H2  | H3  | R   | W     | N1  | N2  | N3 | A   | B   | E   | F   | V1      | V2      |                   |
| 40-125/3.06 | 65                | 122     | 145     | 185     | 20 | 40       | 88      | 110     | 150     | 18 | 294 | 112 | 140 | 155 | 80  | 90    | 180 | 240 | 60 | 250 | 528 | 500 | 563 | M25x1.5 | M20x1.5 | 43.6              |
| 40-125/4.06 | 65                | 122     | 145     | 185     | 20 | 40       | 88      | 110     | 150     | 18 | 294 | 112 | 140 | 171 | 80  | 90    | 180 | 240 | 60 | 250 | 550 | 500 | 585 | M25x1.5 | M20x1.5 | 53.7              |
| 40-160/5.56 | 65                | 122     | 145     | 185     | 20 | 40       | 88      | 110     | 150     | 18 | 334 | 132 | 160 | 198 | 80  | 110   | 210 | 270 | 60 | 300 | 607 | 600 | 662 | M32x1.5 | M32x1.5 | 83.2              |
| 40-160/7.56 | 65                | 122     | 145     | 185     | 20 | 40       | 88      | 110     | 150     | 18 | 334 | 132 | 160 | 198 | 80  | 110   | 210 | 270 | 60 | 300 | 607 | 600 | 662 | M32x1.5 | M32x1.5 | 91.0              |
| 40-200/116  | 65                | 122     | 145     | 185     | 20 | 40       | 88      | 110     | 150     | 18 | 382 | 160 | 180 | 238 | 100 | 110   | 240 | 310 | 70 | 350 | 796 | 720 | 831 | M40x1.5 | M40x1.5 | 119.7             |
| 40-200/156  | 65                | 122     | 145     | 185     | 20 | 40       | 88      | 110     | 150     | 18 | 382 | 160 | 180 | 238 | 100 | 110   | 240 | 310 | 70 | 350 | 796 | 720 | 831 | M40x1.5 | M40x1.5 | 143.7             |
| 50-125/5.56 | 65                | 122     | 145     | 185     | 20 | 50       | 102     | 125     | 165     | 20 | 334 | 132 | 160 | 198 | 100 | 110   | 210 | 270 | 60 | 300 | 627 | 600 | 662 | M32x1.5 | M32x1.5 | 75.1              |
| 50-125/7.56 | 65                | 122     | 145     | 185     | 20 | 50       | 102     | 125     | 165     | 20 | 334 | 132 | 160 | 198 | 100 | 110   | 210 | 270 | 60 | 300 | 627 | 600 | 662 | M32x1.5 | M32x1.5 | 100.3             |
| 50-160/116  | 65                | 122     | 145     | 185     | 20 | 50       | 102     | 125     | 165     | 20 | 382 | 160 | 180 | 238 | 100 | 110   | 240 | 310 | 70 | 350 | 796 | 720 | 831 | M40x1.5 | M40x1.5 | 88.6              |
| 50-160/156  | 65                | 122     | 145     | 185     | 20 | 50       | 102     | 125     | 165     | 20 | 382 | 160 | 180 | 238 | 100 | 110   | 240 | 310 | 70 | 350 | 796 | 720 | 831 | M40x1.5 | M40x1.5 | 116.6             |
| 65-160/116  | 80                | 138     | 160     | 200     | 22 | 65       | 122     | 145     | 185     | 20 | 402 | 160 | 200 | 238 | 100 | 122.5 | 240 | 310 | 70 | 350 | 796 | 720 | 844 | M40x1.5 | M40x1.5 | 89.6              |
| 65-160/156  | 80                | 138     | 160     | 200     | 22 | 65       | 122     | 145     | 185     | 20 | 402 | 160 | 200 | 238 | 100 | 122.5 | 240 | 310 | 70 | 350 | 806 | 720 | 854 | M40x1.5 | M40x1.5 | 117.6             |



PUMP 3DP



## DIMENSIONS AND WEIGHT

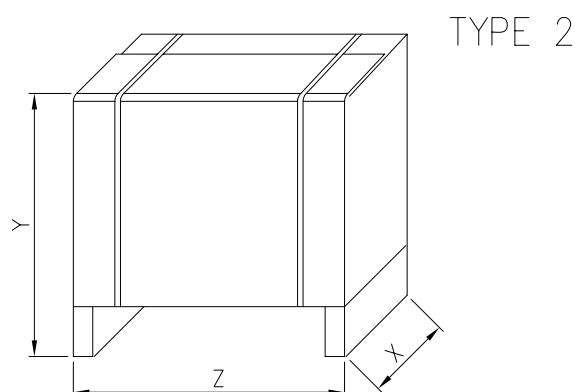
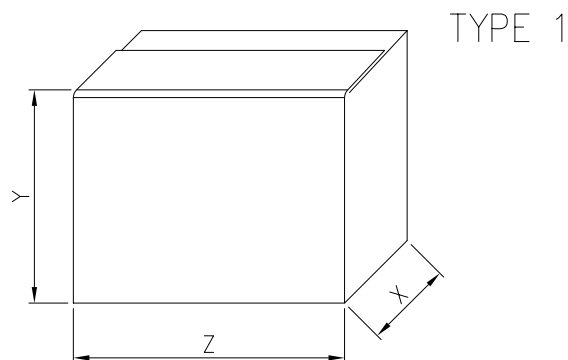
60Hz

Rev. A

| Model        | Dimensions [ mm ] |         |         |         |         |          |         |         |         |         |     |     |     |     |     |     |      |     |     |     |     |     |     |      |      |         | Weight<br>[ kgf ] |       |
|--------------|-------------------|---------|---------|---------|---------|----------|---------|---------|---------|---------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|------|---------|-------------------|-------|
|              | Ø<br>DN1          | Ø<br>P1 | Ø<br>K1 | Ø<br>D1 | Ø<br>S1 | Ø<br>DN2 | Ø<br>P2 | Ø<br>K2 | Ø<br>D2 | Ø<br>S2 | H   | H1  | H2  | H3  | R   | A   | B    | B2  | D   | E   | N1  | N2  | N3  | T    | L    | V1      |                   | V2    |
| 32-125/2.26  | 50                | 102     | 125     | 165     | 20      | 32       | 78      | 100     | 140     | 18      | 302 | 112 | 140 | 148 | 80  | 213 | 760  | 317 | 80  | 550 | 300 | 340 | 250 | 710  | 760  | M25x1.5 | M20x1.5           | 61.4  |
| 32-160/3.06  | 50                | 102     | 125     | 165     | 20      | 32       | 78      | 100     | 140     | 18      | 342 | 132 | 160 | 155 | 80  | 254 | 809  | 366 | 80  | 590 | 350 | 390 | 300 | 750  | 809  | M25x1.5 | M20x1.5           | 81.9  |
| 32-160/4.06  | 50                | 102     | 125     | 165     | 20      | 32       | 78      | 100     | 140     | 18      | 342 | 132 | 160 | 171 | 80  | 254 | 831  | 388 | 80  | 590 | 350 | 390 | 300 | 750  | 831  | M25x1.5 | M20x1.5           | 85.5  |
| 32-200/5.56  | 50                | 102     | 125     | 165     | 20      | 32       | 78      | 100     | 140     | 18      | 390 | 160 | 180 | 198 | 80  | 296 | 885  | 442 | 100 | 650 | 350 | 390 | 300 | 850  | 905  | M32x1.5 | M32x1.5           | 108.4 |
| 32-200/7.56  | 50                | 102     | 125     | 165     | 20      | 32       | 78      | 100     | 140     | 18      | 390 | 160 | 180 | 198 | 80  | 296 | 885  | 442 | 100 | 650 | 350 | 390 | 300 | 850  | 905  | M32x1.5 | M32x1.5           | 121.6 |
| 40-125/3.06  | 65                | 122     | 145     | 185     | 20      | 40       | 88      | 110     | 150     | 18      | 302 | 112 | 140 | 155 | 80  | 213 | 809  | 366 | 80  | 590 | 300 | 340 | 250 | 750  | 809  | M25x1.5 | M20x1.5           | 89.1  |
| 40-125/4.06  | 65                | 122     | 145     | 185     | 20      | 40       | 88      | 110     | 150     | 18      | 302 | 112 | 140 | 171 | 80  | 213 | 831  | 388 | 80  | 590 | 300 | 340 | 250 | 750  | 831  | M25x1.5 | M20x1.5           | 75.7  |
| 40-160/5.56  | 65                | 122     | 145     | 185     | 20      | 40       | 88      | 110     | 150     | 18      | 342 | 132 | 160 | 198 | 80  | 254 | 885  | 442 | 100 | 650 | 350 | 390 | 300 | 850  | 905  | M32x1.5 | M32x1.5           | 109.0 |
| 40-160/7.56  | 65                | 122     | 145     | 185     | 20      | 40       | 88      | 110     | 150     | 18      | 342 | 132 | 160 | 198 | 80  | 254 | 885  | 442 | 100 | 650 | 350 | 390 | 300 | 850  | 905  | M32x1.5 | M32x1.5           | 115.9 |
| 40-200/11.6  | 65                | 122     | 145     | 185     | 20      | 40       | 88      | 110     | 150     | 18      | 390 | 160 | 180 | 238 | 100 | 296 | 1071 | 608 | 100 | 800 | 380 | 420 | 330 | 1000 | 1071 | M40x1.5 | M40x1.5           | 129.7 |
| 40-200/15.6  | 65                | 122     | 145     | 185     | 20      | 40       | 88      | 110     | 150     | 18      | 390 | 160 | 180 | 238 | 100 | 296 | 1071 | 608 | 100 | 800 | 380 | 420 | 330 | 1000 | 1071 | M40x1.5 | M40x1.5           | 130.7 |
| 50-125/5.56  | 65                | 122     | 145     | 185     | 20      | 50       | 102     | 125     | 165     | 20      | 342 | 132 | 160 | 198 | 100 | 254 | 905  | 442 | 100 | 650 | 350 | 390 | 300 | 850  | 905  | M32x1.5 | M32x1.5           | 110.3 |
| 50-125/7.56  | 65                | 122     | 145     | 185     | 20      | 50       | 102     | 125     | 165     | 20      | 342 | 132 | 160 | 198 | 100 | 254 | 905  | 442 | 100 | 650 | 350 | 390 | 300 | 850  | 905  | M32x1.5 | M32x1.5           | 117.2 |
| 50-160/11.6  | 65                | 122     | 145     | 185     | 20      | 50       | 102     | 125     | 165     | 20      | 390 | 160 | 180 | 238 | 100 | 296 | 1071 | 608 | 100 | 800 | 380 | 420 | 330 | 1000 | 1071 | M40x1.5 | M40x1.5           | 130.1 |
| 50-160/15.6  | 65                | 122     | 145     | 185     | 20      | 50       | 102     | 125     | 165     | 20      | 390 | 160 | 180 | 238 | 100 | 296 | 1071 | 608 | 100 | 800 | 380 | 420 | 330 | 1000 | 1071 | M40x1.5 | M40x1.5           | 131.1 |
| 65-125/5.56  | 80                | 138     | 160     | 200     | 22      | 65       | 122     | 145     | 185     | 20      | 390 | 160 | 180 | 198 | 100 | 254 | 905  | 442 | 100 | 650 | 350 | 390 | 300 | 850  | 905  | M32x1.5 | M32x1.5           | 114.3 |
| 65-125/7.56  | 80                | 138     | 160     | 200     | 22      | 65       | 122     | 145     | 185     | 20      | 390 | 160 | 180 | 198 | 100 | 254 | 905  | 442 | 100 | 650 | 350 | 390 | 300 | 850  | 905  | M32x1.5 | M32x1.5           | 122.7 |
| 65-160/9.26  | 80                | 138     | 160     | 200     | 22      | 65       | 122     | 145     | 185     | 20      | 410 | 160 | 200 | 198 | 100 | 296 | 945  | 482 | 100 | 650 | 350 | 390 | 300 | 850  | 945  | M32x1.5 | M32x1.5           | 133.0 |
| 65-160/11.6  | 80                | 138     | 160     | 200     | 22      | 65       | 122     | 145     | 185     | 20      | 410 | 160 | 200 | 238 | 100 | 296 | 1071 | 608 | 100 | 800 | 380 | 420 | 330 | 1000 | 1071 | M40x1.5 | M40x1.5           | 130.0 |
| 65-160/15.6  | 80                | 138     | 160     | 200     | 22      | 65       | 122     | 145     | 185     | 20      | 410 | 160 | 200 | 238 | 100 | 296 | 1071 | 608 | 100 | 800 | 380 | 420 | 330 | 1000 | 1071 | M40x1.5 | M40x1.5           | 128.1 |
| 65-200/15.6  | 80                | 138     | 160     | 200     | 22      | 65       | 122     | 145     | 185     | 20      | 455 | 180 | 225 | 238 | 100 | 296 | 1071 | 608 | 100 | 800 | 380 | 420 | 330 | 1000 | 1071 | M40x1.5 | M40x1.5           | 136.6 |
| 65-200/18.56 | 80                | 138     | 160     | 200     | 22      | 65       | 122     | 145     | 185     | 20      | 455 | 180 | 225 | 238 | 100 | 296 | 1115 | 652 | 100 | 800 | 380 | 420 | 330 | 1000 | 1115 | M40x1.5 | M40x1.5           | 145.2 |
| 65-200/22.6  | 80                | 138     | 160     | 200     | 22      | 65       | 122     | 145     | 185     | 20      | 455 | 180 | 225 | 268 | 100 | 296 | 1150 | 687 | 100 | 800 | 410 | 450 | 360 | 1000 | 1150 | M32x1.5 | M32x1.5           | 198.5 |

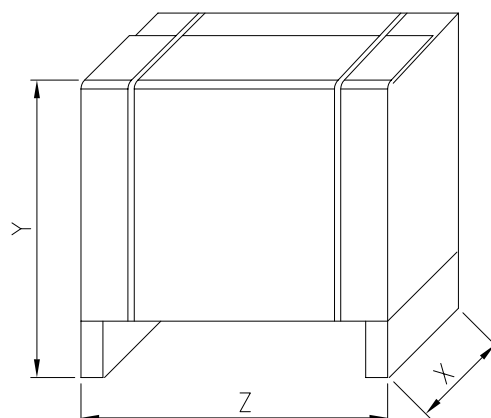
## PACKING 3D

| Pump type    | Packing [ mm ] |     |     | Weight<br>[ kgf ] | Pack<br>type |
|--------------|----------------|-----|-----|-------------------|--------------|
|              | X              | Y   | Z   |                   |              |
| 32-125/2.26  | 280            | 340 | 490 | 33                | 1            |
| 32-160/3.06  | 350            | 488 | 580 | 41.7              |              |
| 32-160/4.06  | 350            | 488 | 580 | 51.7              |              |
| 32-200/5.56  | 350            | 488 | 580 | 66                |              |
| 32-200/7.56  | 350            | 488 | 580 | 65.9              |              |
| 40-125/3.06  | 350            | 488 | 580 | 37.5              |              |
| 40-125/4.06  | 350            | 488 | 580 | 51.3              |              |
| 40-160/5.56  | 350            | 488 | 580 | 64.6              |              |
| 40-160/7.56  | 350            | 488 | 580 | 67.4              |              |
| 40-200/116   | 350            | 508 | 700 | 82.4              |              |
| 40-200/156   | 390            | 542 | 880 | 122.7             | 2            |
| 50-125/5.56  | 350            | 488 | 580 | 61                |              |
| 50-125/7.56  | 350            | 488 | 580 | 67.6              |              |
| 50-160/116   | 350            | 508 | 700 | 80.6              |              |
| 50-160/156   | 390            | 542 | 880 | 99.1              |              |
| 65-125/5.56  | 350            | 488 | 580 | 72.3              |              |
| 65-125/7.56  | 350            | 508 | 700 | 74.2              |              |
| 65-160/9.26  | 350            | 508 | 700 | 78.3              |              |
| 65-160/116   | 350            | 508 | 700 | 83                |              |
| 65-160/156   | 390            | 542 | 880 | 127               |              |
| 65-200/156   | 390            | 542 | 880 | 130.5             |              |
| 65-200/18.56 | 390            | 542 | 880 | 146.5             |              |
| 65-200/226   | 390            | 542 | 880 | 153.5             |              |



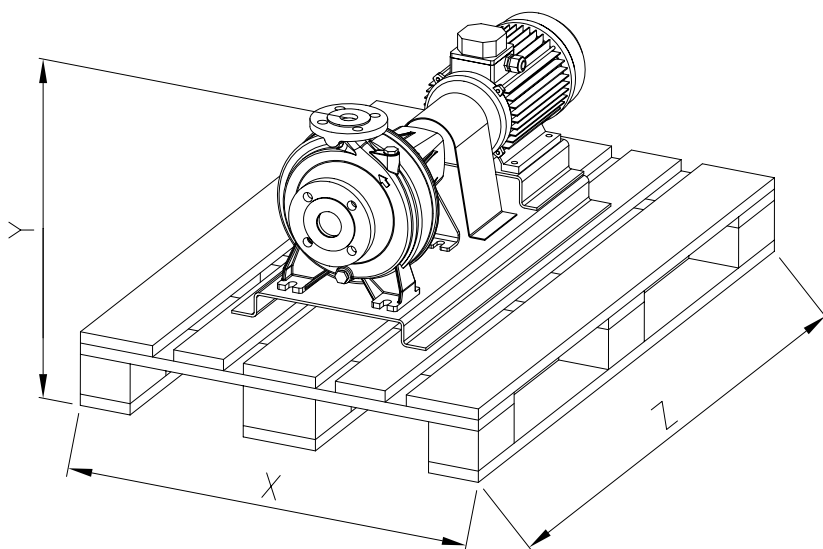
**PACKING 3DS**

| Pump type    | Packing [ mm ] |     |     | Weight<br>[ kgf ] |
|--------------|----------------|-----|-----|-------------------|
|              | X              | Y   | Z   |                   |
| 32-125/2.26  | 350            | 488 | 580 | 42.3              |
| 32-160/3.06  | 350            | 488 | 580 | 55.1              |
| 32-160/4.06  | 350            | 488 | 580 | 56.7              |
| 32-200/5.56  | 350            | 508 | 700 | 88.4              |
| 32-200/7.56  | 350            | 508 | 700 | 101.6             |
| 40-125/3.06  | 350            | 488 | 580 | 48.9              |
| 40-125/4.06  | 350            | 488 | 580 | 59                |
| 40-160/5.56  | 350            | 508 | 700 | 88.4              |
| 40-160/7.56  | 350            | 508 | 700 | 96.2              |
| 40-200/116   | 360            | 542 | 880 | 127.8             |
| 40-200/156   | 360            | 542 | 880 | 151.8             |
| 50-125/5.56  | 350            | 508 | 700 | 83.2              |
| 50-125/7.56  | 350            | 508 | 700 | 108.4             |
| 50-160/116   | 360            | 542 | 880 | 96.7              |
| 50-160/156   | 360            | 542 | 880 | 124.7             |
| 65-125/5.56  | 350            | 508 | 700 | 80.5              |
| 65-125/7.56  | 350            | 508 | 700 | 97.9              |
| 65-160/9.26  | 350            | 508 | 700 | 108.2             |
| 65-160/116   | 360            | 542 | 880 | 97.7              |
| 65-160/156   | 390            | 598 | 970 | 125.6             |
| 65-200/156   | 390            | 598 | 970 | 145.6             |
| 65-200/18.56 | 390            | 598 | 970 | 157.7             |
| 65-200/226   | 390            | 598 | 970 | 193.5             |



**PACKING 3DP**

| Pump type    | Packing [ mm ] |     |      | Weight<br>[ kgf ] |
|--------------|----------------|-----|------|-------------------|
|              | X              | Y   | Z    |                   |
| 32-125/2.26  | 800            | 394 | 1200 | 75.0              |
| 32-160/3.06  |                | 434 |      | 95.5              |
| 32-160/4.06  |                |     |      | 99.0              |
| 32-200/5.56  |                | 482 |      | 122.0             |
| 32-200/7.56  |                |     |      | 135.0             |
| 40-125/3.06  |                | 394 |      | 102.5             |
| 40-125/4.06  |                |     |      | 89.2              |
| 40-160/5.56  |                | 434 |      | 122.5             |
| 40-160/7.56  |                |     |      | 129.5             |
| 40-200/116   |                | 482 |      | 143.2             |
| 40-200/156   |                |     |      | 144.2             |
| 50-125/5.56  |                | 434 |      | 123.8             |
| 50-125/7.56  |                |     |      | 130.7             |
| 50-160/116   |                |     |      | 143.5             |
| 50-160/156   |                | 482 |      | 144.5             |
| 65-125/5.56  | 502            |     | 1200 | 127.8             |
| 65-125/7.56  |                |     |      | 136.2             |
| 65-160/9.26  |                |     |      | 146.5             |
| 65-160/116   |                |     |      | 143.5             |
| 65-160/156   |                |     |      | 142.0             |
| 65-200/156   |                |     |      | 150.0             |
| 65-200/18.56 |                | 547 |      | 158.7             |
| 65-200/226   |                |     |      | 212.0             |



## MOTOR DATA 3D

| Pump type       | Power  |        | Efficiency (% load) |      |      | Efficiency (% load) |      |      | Input<br>[ kW ] | Full load current |       |       |       | Locked rotor current |       |       |       |
|-----------------|--------|--------|---------------------|------|------|---------------------|------|------|-----------------|-------------------|-------|-------|-------|----------------------|-------|-------|-------|
|                 | [ kW ] | [ HP ] | Three phase (380 V) |      |      | Three phase (460 V) |      |      |                 | [ A ]             |       |       |       | [ A ]                |       |       |       |
|                 |        |        | H <sub>1</sub> χ    |      |      | H <sub>1</sub> χ    |      |      |                 | Three Phase       |       |       |       | Three Phase          |       |       |       |
|                 |        |        | 50%                 | 75%  | 100% | 50%                 | 75%  | 100% |                 | 220 V             | 380 V | 460 V | 660 V | 220 V                | 380 V | 460 V | 660 V |
| 3D 32-125/2.26  | 2.2    | 3.0    | 80.5                | 83.3 | 83.5 | 77.3                | 82.4 | 84.1 | 2.9             | 7.0               | 4.1   | 4.1   | -     | 61.5                 | 35.5  | 43.0  | -     |
| 3D 32-160/3.06  | 3.0    | 4.0    | 84.0                | 85.9 | 85.2 | 80.2                | 83.5 | 84.6 | 3.9             | 10.5              | 6.1   | 5.6   | -     | 92.1                 | 53.2  | 57.0  | -     |
| 3D 32-160/4.06  | 4.0    | 5.5    | 83.2                | 85.8 | 86.1 | 81.0                | 85.1 | 86.7 | 5.1             | 14.7              | 8.5   | 8.0   | -     | 108.8                | 62.8  | 76.0  | -     |
| 3D 32-200/5.56  | 5.5    | 7.5    | 83.4                | 85.3 | 85.7 | 82.9                | 86.0 | 87.4 | 7.0             | -                 | 11.6  | 9.5   | 6.7   | -                    | 90.9  | 110.0 | 63.5  |
| 3D 32-200/7.56  | 7.5    | 10.0   | 83.1                | 85.4 | 85.8 | 82.6                | 86.1 | 87.5 | 9.4             | -                 | 14.9  | 12.7  | 8.6   | -                    | 121.4 | 147.0 | 84.9  |
| 3D 40-125/3.06  | 3.0    | 4.0    | 84.0                | 85.9 | 85.2 | 80.2                | 83.5 | 84.6 | 3.9             | 10.5              | 6.1   | 5.6   | -     | 92.1                 | 53.2  | 57.0  | -     |
| 3D 40-125/4.06  | 4.0    | 5.5    | 83.2                | 85.8 | 86.1 | 81.0                | 85.1 | 86.7 | 5.1             | 14.7              | 8.5   | 8.0   | -     | 108.8                | 62.8  | 76.0  | -     |
| 3D 40-160/5.56  | 5.5    | 7.5    | 83.4                | 85.3 | 85.7 | 82.9                | 86.0 | 87.4 | 7.0             | -                 | 11.6  | 9.5   | 6.7   | -                    | 90.9  | 110.0 | 63.5  |
| 3D 40-160/7.56  | 7.5    | 10.0   | 83.1                | 85.4 | 85.8 | 82.6                | 86.1 | 87.5 | 9.4             | -                 | 14.9  | 12.7  | 8.6   | -                    | 121.4 | 147.0 | 84.9  |
| 3D 40-200/116   | 11.0   | 15.0   | 87.3                | 88.8 | 88.6 | 85.9                | 88.7 | 89.6 | 11.3            | -                 | 17.7  | 15.4  | 10.3  | -                    | 125.6 | 152.0 | 87.8  |
| 3D 40-200/156   | 15.0   | 20.0   | 90.9                | 91.5 | 91.0 | 89.4                | 91.3 | 91.8 | 17.9            | -                 | 28.7  | 25.0  | 16.6  | -                    | 198.3 | 240.0 | 138.6 |
| 3D 50-125/5.56  | 5.5    | 7.5    | 83.4                | 85.3 | 85.7 | 82.9                | 86.0 | 87.4 | 7.0             | -                 | 11.6  | 9.5   | 6.7   | -                    | 90.9  | 110.0 | 63.5  |
| 3D 50-125/7.56  | 7.5    | 10.0   | 83.1                | 85.4 | 85.8 | 82.6                | 86.1 | 87.5 | 9.4             | -                 | 14.9  | 12.7  | 8.6   | -                    | 121.4 | 147.0 | 84.9  |
| 3D 50-160/116   | 11.0   | 15.0   | 87.3                | 88.8 | 88.6 | 85.9                | 88.7 | 89.6 | 11.3            | -                 | 17.7  | 15.4  | 10.3  | -                    | 125.6 | 152.0 | 87.8  |
| 3D 50-160/156   | 15.0   | 20.0   | 90.9                | 91.5 | 91.0 | 89.4                | 91.3 | 91.8 | 17.9            | -                 | 28.7  | 25.0  | 16.6  | -                    | 198.3 | 240.0 | 138.6 |
| 3D 65-125/5.56  | 5.5    | 7.5    | 83.4                | 85.3 | 85.7 | 82.9                | 86.0 | 87.4 | 7.0             | -                 | 11.6  | 9.5   | 6.7   | -                    | 90.9  | 110.0 | 63.5  |
| 3D 65-125/7.56  | 7.5    | 10.0   | 83.1                | 85.4 | 85.8 | 82.6                | 86.1 | 87.5 | 9.4             | -                 | 14.9  | 12.7  | 8.6   | -                    | 121.4 | 147.0 | 84.9  |
| 3D 65-160/9.26  | 9.2    | 13.0   | 87.3                | 88.8 | 88.6 | 85.9                | 88.7 | 89.6 | 11.3            | -                 | 17.7  | 15.4  | 10.3  | -                    | 125.6 | 152.0 | 87.8  |
| 3D 65-160/116   | 11.0   | 15.0   | 91.9                | 91.8 | 91.2 | 90.9                | 92.0 | 91.9 | 13.2            | -                 | 18.3  | 18.3  | 10.5  | -                    | 132.2 | 160.0 | 92.4  |
| 3D 65-160/156   | 15.0   | 20.0   | 90.9                | 91.5 | 91.0 | 89.4                | 91.3 | 91.8 | 17.9            | -                 | 28.7  | 25.0  | 16.6  | -                    | 198.3 | 240.0 | 138.6 |
| 3D 65-200/156   | 15.0   | 20.0   | 90.9                | 91.5 | 91.0 | 89.4                | 91.3 | 91.8 | 17.9            | -                 | 28.7  | 25.0  | 16.6  | -                    | 198.3 | 240.0 | 138.6 |
| 3D 65-200/18.56 | 18.5   | 25.0   | 91.7                | 92.8 | 92.5 | 90.3                | 92.1 | 92.9 | 21.9            | -                 | 34.8  | 31.0  | 20.1  | -                    | 271.0 | 328.0 | 189.4 |
| 3D 65-200/226   | 22.0   | 30.0   | 89.7                | 91.2 | 91.3 | 88.4                | 91.0 | 91.7 | 26.4            | -                 | 41.7  | 36.4  | 24.0  | -                    | 316.4 | 383.0 | 221.1 |

## MOTOR DATA 3DS-3DP

| Pump type        |                  | Power  |        | Input<br>[ kW ] | Efficiency (% load)<br>and power-factor |      |      |       | Full load current<br>[ A ] |       | Locked rotor current<br>[ A ] |       |
|------------------|------------------|--------|--------|-----------------|-----------------------------------------|------|------|-------|----------------------------|-------|-------------------------------|-------|
| 3DS              | 3DP              | [ kW ] | [ HP ] |                 | 50%                                     | 75%  | 100% | cos-φ | Three Phase                |       | Three Phase                   |       |
|                  |                  |        |        |                 |                                         |      |      |       | 265 V                      | 460 V | 265 V                         | 460 V |
| 3DS 32-125/2.26  | 3DP 32-125/2.26  | 2.2    | 3      | 2.65            | 79.6                                    | 83.2 | 84.3 | 0.81  | 7.1                        | 4.1   | 56.8                          | 32.8  |
| 3DS 32-160/3.06  | 3DP 32-160/3.06  | 3      | 4      | 3.56            | 80.7                                    | 84.4 | 85.5 | 0.86  | 9.0                        | 5.2   | 86.4                          | 49.9  |
| 3DS 32-160/4.06  | 3DP 32-160/4.06  | 4      | 5.5    | 4.70            | 81.3                                    | 84.2 | 85.0 | 0.83  | 12.3                       | 7.1   | 125.4                         | 72.4  |
| 3DS 32-200/5.56  | 3DP 32-200/5.56  | 5.5    | 7.5    | 6.22            | 83.5                                    | 86.6 | 87.8 | 0.84  | -                          | 9.3   | -                             | 84.6  |
| 3DS 32-200/7.56  | 3DP 32-200/7.56  | 7.5    | 10     | 8.36            | 86.3                                    | 88.7 | 89.3 | 0.86  | -                          | 12.2  | -                             | 111.0 |
| 3DS 40-125/3.06  | 3DP 40-125/3.06  | 3      | 4      | 3.56            | 80.7                                    | 84.4 | 85.5 | 0.86  | 9.0                        | 5.2   | 86.4                          | 49.9  |
| 3DS 40-125/4.06  | 3DP 40-125/4.06  | 4      | 5.5    | 4.70            | 81.3                                    | 84.2 | 85.0 | 0.83  | 12.3                       | 7.1   | 125.4                         | 72.4  |
| 3DS 40-160/5.56  | 3DP 40-160/5.56  | 5.5    | 7.5    | 6.22            | 83.5                                    | 86.6 | 87.8 | 0.84  | -                          | 9.3   | -                             | 84.6  |
| 3DS 40-160/7.56  | 3DP 40-160/7.56  | 7.5    | 10     | 8.36            | 86.3                                    | 88.7 | 89.3 | 0.86  | -                          | 12.2  | -                             | 111.0 |
| 3DS 40-200/116   | 3DP 40-200/116   | 11     | 15     | 12.15           | 85.2                                    | 88.0 | 90.0 | 0.82  | -                          | 18.6  | -                             | 165.5 |
| 3DS 40-200/156   | 3DP 40-200/156   | 15     | 20     | 16.71           | 88.2                                    | 90.1 | 90.2 | 0.90  | -                          | 23.3  | -                             | 223.7 |
| 3DS 50-125/5.56  | 3DP 50-125/5.56  | 5.5    | 7.5    | 6.22            | 83.5                                    | 86.6 | 87.8 | 0.84  | -                          | 9.3   | -                             | 84.6  |
| 3DS 50-125/7.56  | 3DP 50-125/7.56  | 7.5    | 10     | 8.36            | 86.3                                    | 88.7 | 89.3 | 0.86  | -                          | 12.2  | -                             | 111.0 |
| 3DS 50-160/116   | 3DP 50-160/116   | 11     | 15     | 12.15           | 85.2                                    | 88.0 | 90.0 | 0.82  | -                          | 18.6  | -                             | 165.5 |
| 3DS 50-160/156   | 3DP 50-160/156   | 15     | 20     | 16.71           | 88.2                                    | 90.1 | 90.2 | 0.90  | -                          | 23.3  | -                             | 223.7 |
| 3DS 65-125/5.56  | 3DP 65-125/5.56  | 5.5    | 7.5    | 6.22            | 83.5                                    | 86.6 | 87.8 | 0.84  | -                          | 9.3   | -                             | 84.6  |
| 3DS 65-125/7.56  | 3DP 65-125/7.56  | 7.5    | 10     | 8.36            | 86.3                                    | 88.7 | 89.3 | 0.86  | -                          | 12.2  | -                             | 111.0 |
| 3DS 65-160/9.26  | 3DP 65-160/9.26  | 9.2    | 12.5   | 10.40           | 86.5                                    | 88.9 | 89.5 | 0.90  | -                          | 14.5  | -                             | 137.7 |
| 3DS 65-160/116   | 3DP 65-160/116   | 11     | 15     | 12.15           | 85.2                                    | 88.0 | 90.0 | 0.82  | -                          | 18.6  | -                             | 165.5 |
| 3DS 65-160/156   | 3DP 65-160/156   | 15     | 20     | 16.71           | 88.2                                    | 90.1 | 90.2 | 0.90  | -                          | 23.3  | -                             | 223.7 |
| 3DS 65-200/156   | 3DP 65-200/156   | 15     | 20     | 16.71           | 88.2                                    | 90.1 | 90.2 | 0.90  | -                          | 23.3  | -                             | 223.7 |
| 3DS 65-200/18.56 | 3DP 65-200/18.56 | 18.5   | 25     | 20.32           | 88.7                                    | 90.8 | 90.9 | 0.82  | -                          | 31.1  | -                             | 276.8 |
| 3DS 65-200/226   | 3DP 65-200/226   | 22     | 30     | 24.11           | -                                       | -    | 91.3 | 0.89  | -                          | 34.0  | -                             | 290.0 |

## 3D NOISE DATA

| Pump type       | Power |      | L <sub>pA</sub> - dB(A) * |
|-----------------|-------|------|---------------------------|
|                 | [kW]  | [HP] |                           |
| 3D 32-125/2.26  | 2.2   | 3.0  | 68                        |
| 3D 32-160/3.06  | 3.0   | 4.0  | 75                        |
| 3D 32-160/4.06  | 4.0   | 5.5  |                           |
| 3D 32-200/5.56  | 5.5   | 7.5  | 78                        |
| 3D 32-200/7.56  | 7.5   | 10   |                           |
| 3D 40-125/3.06  | 3.0   | 4.0  | 75                        |
| 3D 40-125/4.06  | 4.0   | 5.5  |                           |
| 3D 40-160/5.56  | 5.5   | 7.5  | 78                        |
| 3D 40-160/7.56  | 7.5   | 10   |                           |
| 3D 40-200/116   | 11    | 15   | 82                        |
| 3D 40-200/156   | 15    | 20   |                           |
| 3D 50-125/5.56  | 5.5   | 7.5  | 78                        |
| 3D 50-125/7.56  | 7.5   | 10   |                           |
| 3D 50-160/116   | 11    | 15   | 82                        |
| 3D 50-160/156   | 15    | 20   |                           |
| 3D 65-125/5.56  | 5.5   | 7.5  | 78                        |
| 3D 65-125/7.56  | 7.5   | 10   |                           |
| 3D 65-160/9.26  | 9.2   | 12.5 | 82                        |
| 3D 65-160/116   | 11    | 15   |                           |
| 3D 65-160/156   | 15    | 20   | 86                        |
| 3D 65-200/156   | 15    | 20   |                           |
| 3D 65-200/18.56 | 18.5  | 25   |                           |
| 3D 65-200/226   | 22    | 30   |                           |

\*Mean value of several measures at  
1m distance around the pump.  
Tolerance  $\pm 2.5$  dB.



**3DS – 3DP NOISE DATA**

| Pump type        |                  | Power |      | L <sub>pA</sub> - dB(A) * |
|------------------|------------------|-------|------|---------------------------|
| 3DS              | 3DP              | [kW]  | [HP] |                           |
| 3DS 32-125/2.26  | 3DP 32-125/2.26  | 2.2   | 3    | 70                        |
| 3DS 32-160/3.06  | 3DP 32-160/3.06  | 3     | 4    | 74                        |
| 3DS 32-160/4.06  | 3DP 32-160/4.06  | 4     | 5.5  | 78                        |
| 3DS 32-200/5.56  | 3DP 32-200/5.56  | 5.5   | 7.5  | 82                        |
| 3DS 32-200/7.56  | 3DP 32-200/7.56  | 7.5   | 10   |                           |
| 3DS 40-125/3.06  | 3DP 40-125/3.06  | 3     | 4    | 74                        |
| 3DS 40-125/4.06  | 3DP 40-125/4.06  | 4     | 5.5  | 78                        |
| 3DS 40-160/5.56  | 3DP 40-160/5.56  | 5.5   | 7.5  | 82                        |
| 3DS 40-160/7.56  | 3DP 40-160/7.56  | 7.5   | 10   |                           |
| 3DS 40-200/116   | 3DP 40-200/116   | 11    | 15   | 84                        |
| 3DS 40-200/156   | 3DP 40-200/156   | 15    | 20   |                           |
| 3DS 50-125/5.56  | 3DP 50-125/5.56  | 5.5   | 7.5  | 82                        |
| 3DS 50-125/7.56  | 3DP 50-125/7.56  | 7.5   | 10   |                           |
| 3DS 50-160/116   | 3DP 50-160/116   | 11    | 15   | 84                        |
| 3DS 50-160/156   | 3DP 50-160/156   | 15    | 20   |                           |
| 3DS 65-125/5.56  | 3DP 65-125/5.56  | 5.5   | 7.5  | 82                        |
| 3DS 65-125/7.56  | 3DP 65-125/7.56  | 7.5   | 10   |                           |
| 3DS 65-160/9.26  | 3DP 65-160/9.26  | 9.2   | 12.5 |                           |
| 3DS 65-160/116   | 3DP 65-160/116   | 11    | 15   | 84                        |
| 3DS 65-160/156   | 3DP 65-160/156   | 15    | 20   |                           |
| 3DS 65-200/156   | 3DP 65-200/156   | 15    | 20   |                           |
| 3DS 65-200/18.56 | 3DP 65-200/18.56 | 18.5  | 25   | 85                        |
| 3DS 65-200/226   | 3DP 65-200/226   | 22    | 30   |                           |

\*Mean value of several measures at 1m distance around the pump.

Tolerance  $\pm 2.5$  dB.