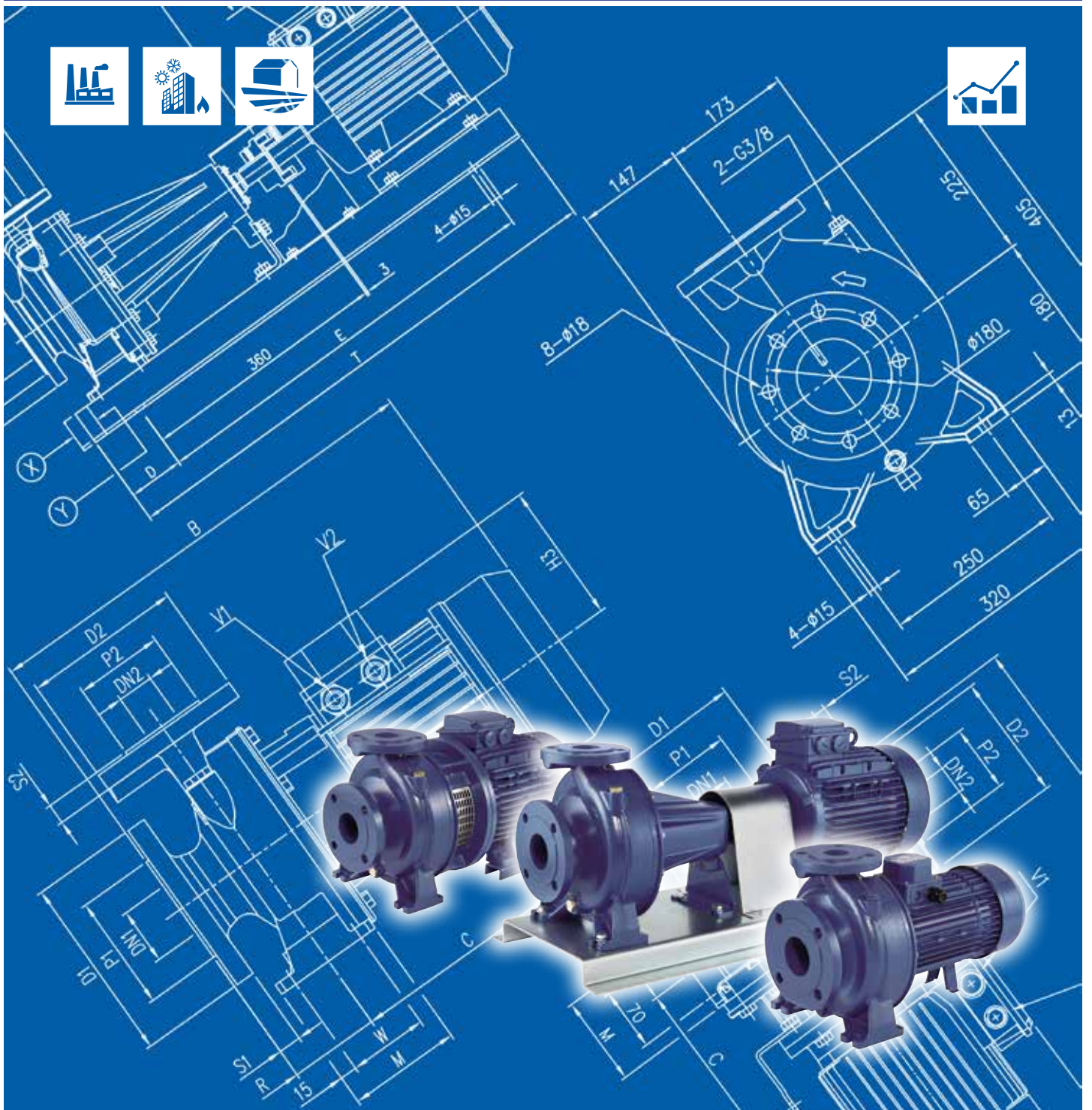




Japanese Technology since 1912

3D SERIES

Data Book 50Hz



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PERFORMANCE RANGE

50Hz

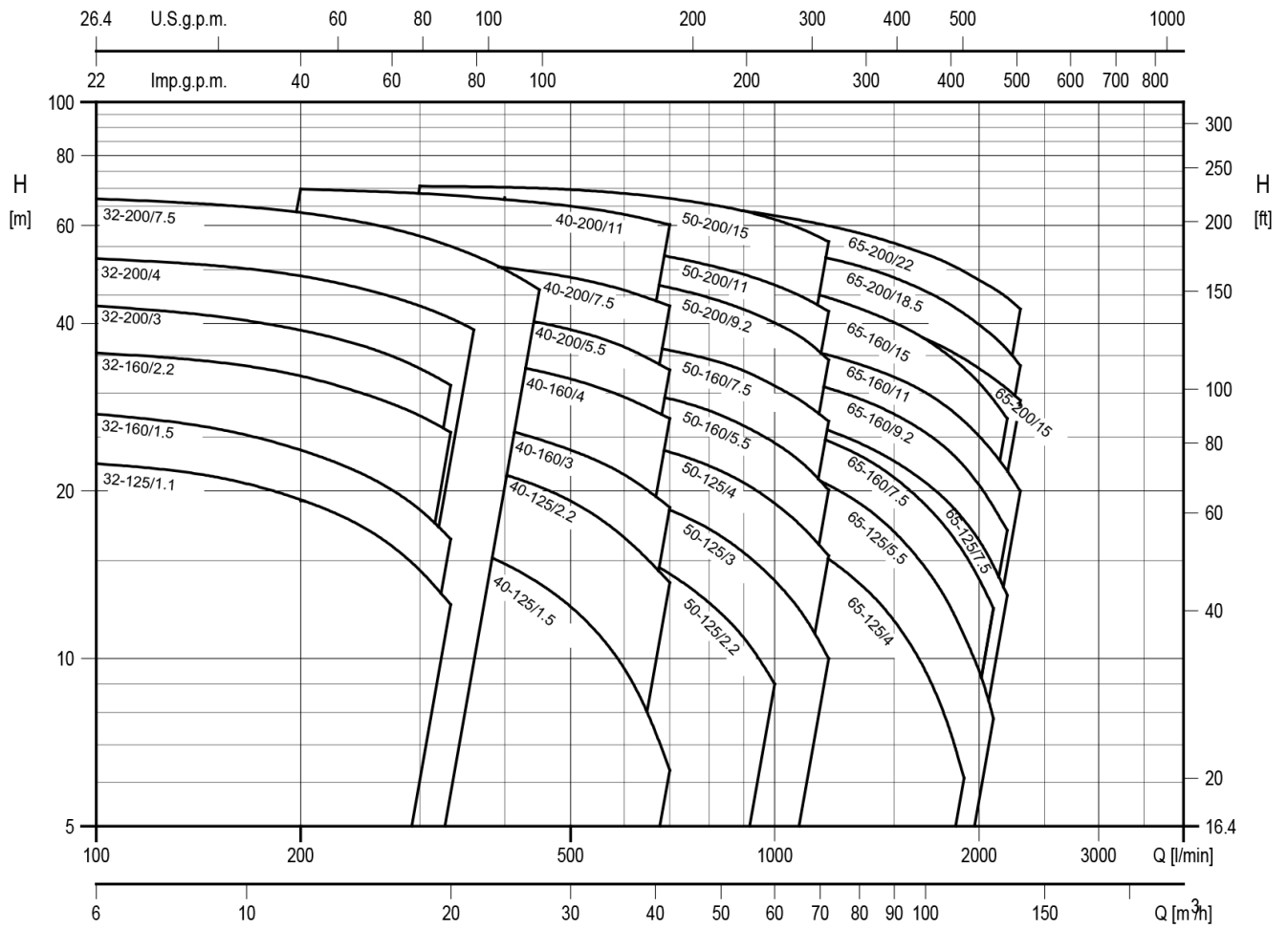
Rev. S

| PUMP | | |
|--------------------------------|--------------------------|---|
| Liquid Handled | Type of liquid | Clean water |
| | Working temperature [°C] | min. -5 max. +120 For full details see section "FLUID TEMPERATURE RANGE" |
| Maximum working pressure [MPa] | | 1 |
| Construction | Impeller | Closed centrifugal type for 32, 40, 50 series Reinforced laser welding for 40-200/11, 50-200/15 Closed centrifugal three dimensional blades for 65 series |
| | Shaft seal type | Mechanical seal |
| | Bearing | Sealed ball bearing |
| Pipe Connection | Suction | Flange DN 50, 65, 80 according to EN 1092-2 |
| | 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) AISI 316 made by precision casting (65 series) |
| | Shaft seal | Ceramic/Carbon/NBR (see MECHANICAL SEAL pages 307-311) |
| | Shaft | AISI 304 (wet extension) |
| | Bracket | Aluminium/Cast iron |
| Accessory | Counterflange | DN 32, 40, 50, 65, 80 (see FITTINGS TABLE page 315) |
| Applicable standard of test | | ISO 9906:2012 – Grade 3B |

| MOTOR | | | | |
|-------------------------------------|-----------------------|--|------------------|-----|
| Type | 3D | | 3DS | 3DP |
| | Electric - TEFC | | | |
| | Single Phase | Three Phase | | |
| Efficiency (Reg. 1781/2019) | IE2 | IE3 | | |
| No. of Poles | 2 | | | |
| Rotation speed [min ⁻¹] | ≈2900 | | | |
| Insulation Class | F | F (temperature rise class B) | | |
| Protection degree | IP 55 | | | |
| Power rating [kW] | 1.1 ÷ 2.2 | 1.1 ÷ 22 | | |
| [HP] | 1.5 ÷ 3 | 1.5 ÷ 30 | | |
| Frequency [Hz] | 50 | | | |
| Voltage [V] | 230 ±10% | 230/400 ±10% (up to 4 kW) 400/690 ±10% (5.5 kW and above) | | |
| Capacitor | Built in | - | | |
| Over load protection | Provided by the user | | | |
| Casing material | Aluminium | | | |
| Motor support | Cast iron / Aluminium | | | |
| Dimensions of cable entry | M20x1.5 | PG 13.5, PG 16, PG 21 | M32x1.5, M40x1.5 | |
| | | M20x1.5, M25x1.5 | | |
| Flange mount (IEC motor) | / | IM B5 (up to 2.2 kW) IM B35 (3.0 kW and above) | IM B3 | |

PERFORMANCE RANGE

201



SELECTION CHART

50Hz

Rev. S

SELECTION CHART

3D SERIES 32 SIZE

| Pump type | l/min | 0 | 100 | 150 | 200 | 250 | 300 | 333 | 360 | 400 | 450 |
|-----------------|-------------------|------|------|------|------|------|------|-----|------|-----|-----|
| | m ³ /h | 0 | 6 | 9 | 12 | 15 | 18 | 20 | 21,6 | 24 | 27 |
| 32-125/1.1(M) * | 23 | 22,4 | 21,2 | 19,3 | 17,1 | 14,4 | 12,5 | - | - | - | - |
| 32-160/1.5(M) * | 28,5 | 27,5 | 25,9 | 23,7 | 21,3 | 18,5 | 16,4 | - | - | - | - |
| 32-160/2.2(M) * | 36,7 | 35,4 | 34,1 | 32,2 | 29,8 | 27,3 | 25,5 | - | - | - | - |
| 32-200/3.0 | 44 | 43 | 41 | 39 | 36,5 | 33 | 31 | - | - | - | - |
| 32-200/4.0 | 53 | 52,5 | 51 | 49 | 46 | 43 | 41 | 39 | - | - | - |
| 32-200/7.5 | 68 | 67 | 65 | 63 | 61 | 57 | 55 | 53 | 50 | 46 | - |

3D SERIES 40 SIZE

| Pump type | l/min | 0 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 |
|-----------------|-------------------|------|------|------|------|------|------|------|------|------|-----|
| | m ³ /h | 0 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 36 | 42 |
| 40-125/1.5(M) * | 19 | 18,2 | 17,6 | 16,8 | 15,9 | 14,8 | 13,7 | 12,4 | 9,6 | 6,3 | - |
| 40-125/2.2(M) * | 25 | 24,4 | 23,9 | 23,2 | 22,4 | 21,4 | 20,4 | 19,2 | 16,5 | 13,7 | - |
| 40-160/3.0 | 31 | 29,4 | 28,7 | 27,8 | 26,8 | 25,8 | 24,8 | 23,7 | 21,4 | 18,7 | - |
| 40-160/4.0 | 38,8 | 37,2 | 36,5 | 35,7 | 34,8 | 33,8 | 32,8 | 31,8 | 29,5 | 27 | - |
| 40-200/5.5 | 45,5 | 44,5 | 44 | 43 | 42 | 41 | 40 | 39 | 36,3 | 33 | - |
| 40-200/7.5 | 55 | 53,5 | 53 | 52 | 51,5 | 50,5 | 49,5 | 48,5 | 46 | 43 | - |
| 40-200/11 | 71 | 70 | 69 | 68,5 | 67,5 | 67 | 66 | 65 | 63 | 60 | - |

3D SERIES 50 SIZE

| Pump type | l/min | 0 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |
|-----------------|-------------------|------|------|------|------|------|------|------|------|------|------|
| | m ³ /h | 0 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |
| 50-125/2.2(M) * | 19,5 | 18 | 17 | 15,7 | 14,2 | 12,6 | 10,9 | 9 | - | - | - |
| 50-125/3.0 | 22,5 | 21,5 | 20,8 | 19,8 | 18,5 | 17,1 | 15,5 | 13,8 | 12 | 10 | - |
| 50-125/4.0 | 26,5 | 25,8 | 25,3 | 24,5 | 23,5 | 22,2 | 20,7 | 19 | 17,2 | 15,3 | - |
| 50-160/5.5 | 33 | 32 | 31,5 | 30,5 | 29,3 | 27,9 | 26,2 | 24,4 | 22,4 | 20 | - |
| 50-160/7.5 | 39,5 | 38,2 | 37,6 | 36,9 | 35,8 | 34,5 | 32,9 | 30,9 | 28,9 | 26,7 | - |
| 50-200/9.2 | 51,5 | - | 49,5 | 48 | 46,5 | 44,5 | 42,5 | 40 | 37,6 | 34,4 | - |
| 50-200/11 | 57,5 | - | 55,5 | 54,5 | 52,5 | 51 | 49 | 47 | 44,5 | 42 | - |
| 50-200/15 | 71 | - | 69,5 | 68,5 | 67 | 65,5 | 63,5 | 61,5 | 59 | 56 | - |

3D SERIES 65 SIZE

| Pump type | l/min | 0 | 600 | 700 | 1000 | 1300 | 1600 | 1900 | 2100 | 2200 | 2300 |
|-------------|-------------------|------|------|------|------|------|------|------|------|------|------|
| | m ³ /h | 0 | 36 | 42 | 60 | 78 | 96 | 114 | 126 | 132 | 138 |
| 65-125/4.0 | 22 | 20,4 | 19,8 | 17,2 | 14 | 10,4 | 6 | - | - | - | - |
| 65-125/5.5 | 26 | - | 25 | 22,5 | 19,4 | 15,5 | 11 | 8 | - | - | - |
| 65-125/7.5 | 31 | - | 29,6 | 27,5 | 24,7 | 21,5 | 17,8 | 14,7 | 13 | - | - |
| 65-160/7.5 | 31,6 | - | 29 | 26,6 | 23,5 | 19,8 | 15,5 | 12,3 | - | - | - |
| 65-160/9.2 | 36,5 | - | 34,7 | 32,4 | 29,6 | 26,3 | 22,2 | 18,8 | 17 | - | - |
| 65-160/11 | 40,5 | - | 39 | 37 | 34 | 31 | 27 | 23 | 22 | 20 | - |
| 65-160/15 | 48 | - | 46 | 44 | 41,5 | 38,4 | 34,6 | 31,9 | 30,5 | 29 | - |
| 65-200/15 | 54 | - | 51 | 47 | 43 | 38,6 | 33,3 | 29,2 | 27 | - | - |
| 65-200/18.5 | 60 | - | 58 | 55 | 51 | 47 | 41,5 | 37,9 | 35,9 | 33,6 | - |
| 65-200/22 | 68 | - | 65,5 | 62,5 | 58,5 | 54,5 | 49,5 | 46 | 44,5 | 42,5 | - |

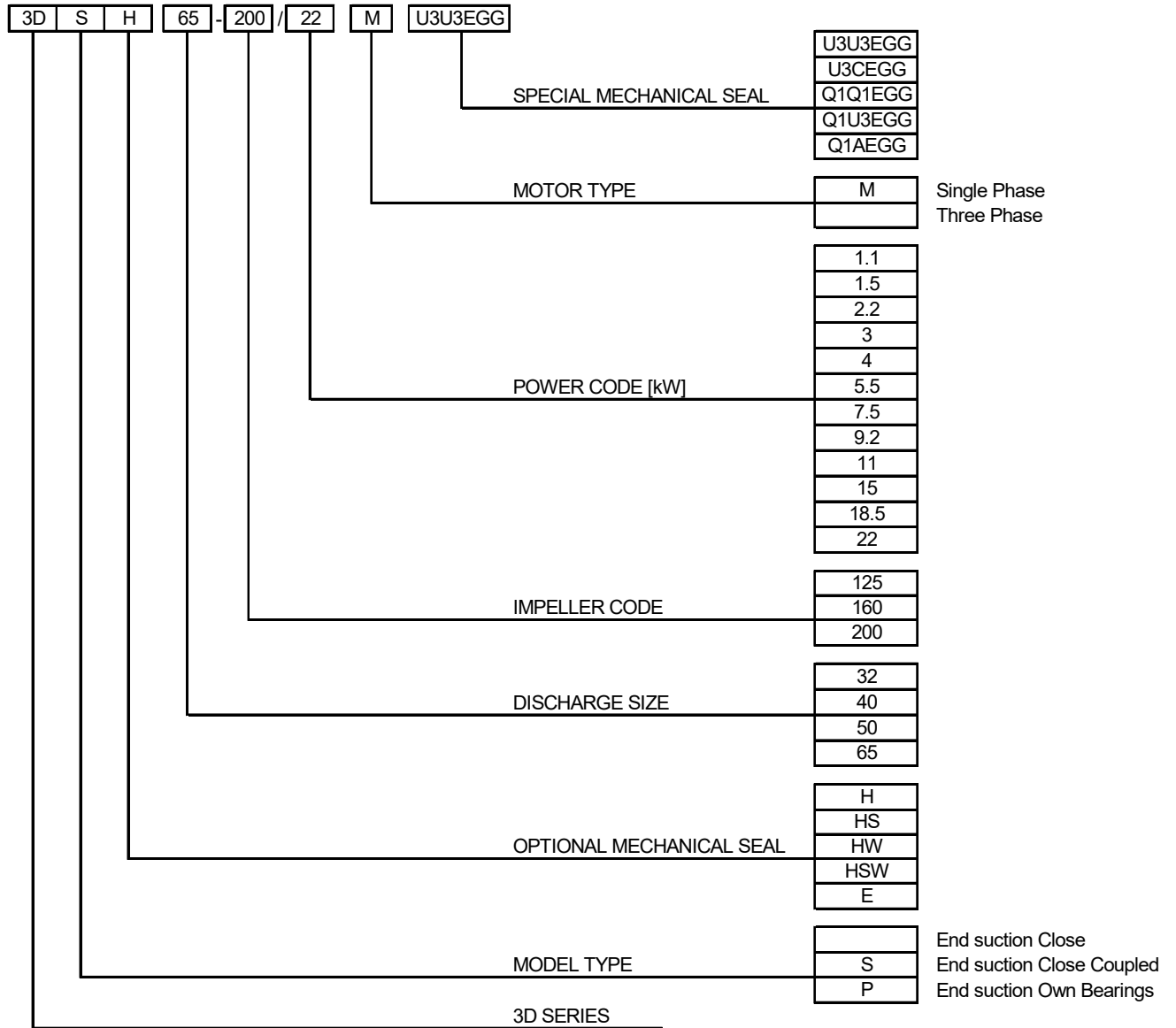
* Single phase version only for 3D type

TYPE KEY

50Hz

Rev.S

TYPE KEY



CURVES SPECIFICATIONS

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

Tolerances according to Test standard: ISO 9906:2012 – Grade 3B

The curves refer to effective speed of asynchronous motors at 50 Hz, 2 poles.

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)

η = pump efficiency

NPSH = net positive suction head required by the pump

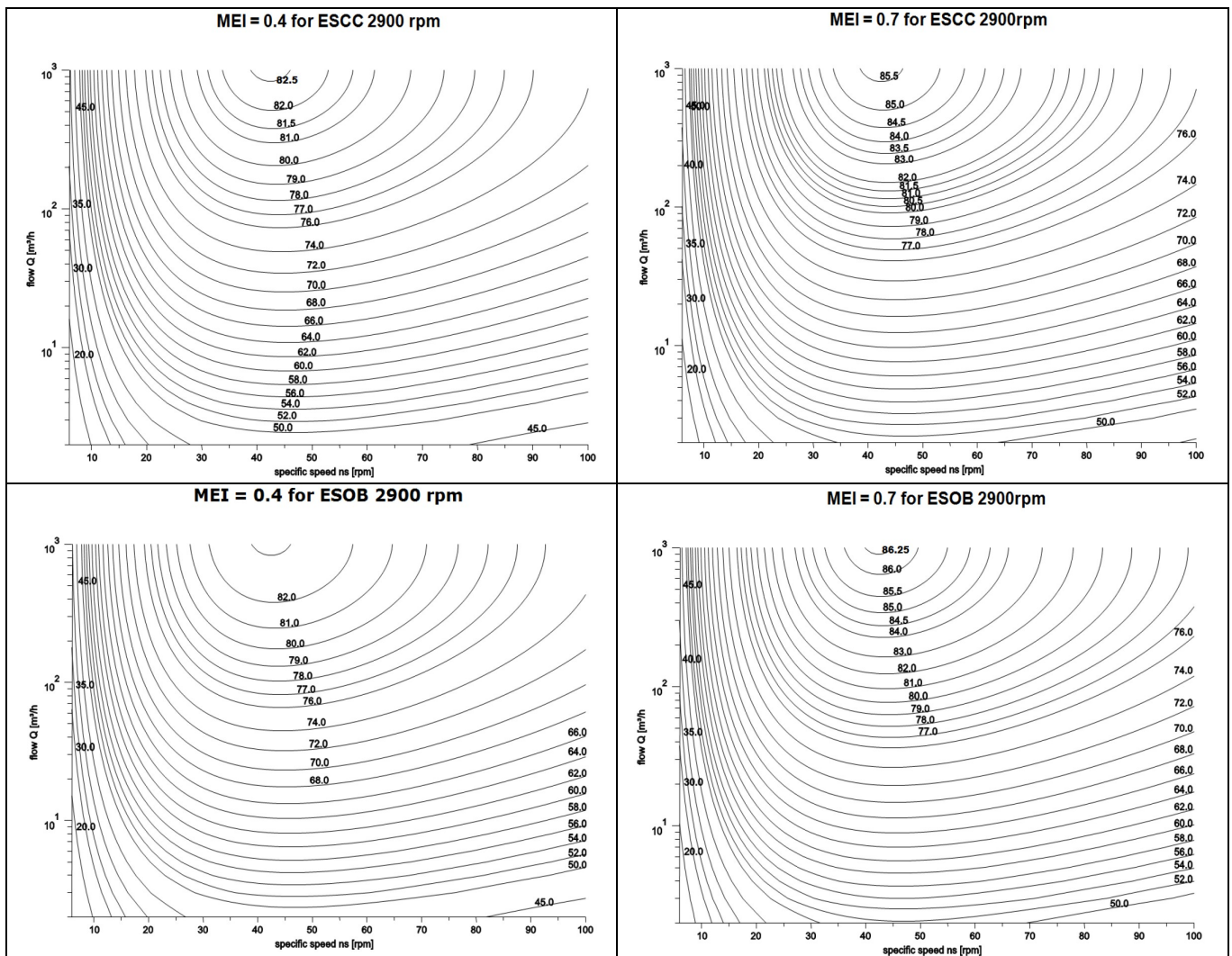
MEI = minimum efficiency index

MEI INDEX SPECIFICATIONS

The minimum efficiency index (MEI) is a measure of the quality of a pump size in respect to its mean efficiency. The minimum efficiency index is based on the hydraulic efficiency and on the head at the best efficiency point.

The efficiency of a pump with trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to a reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.

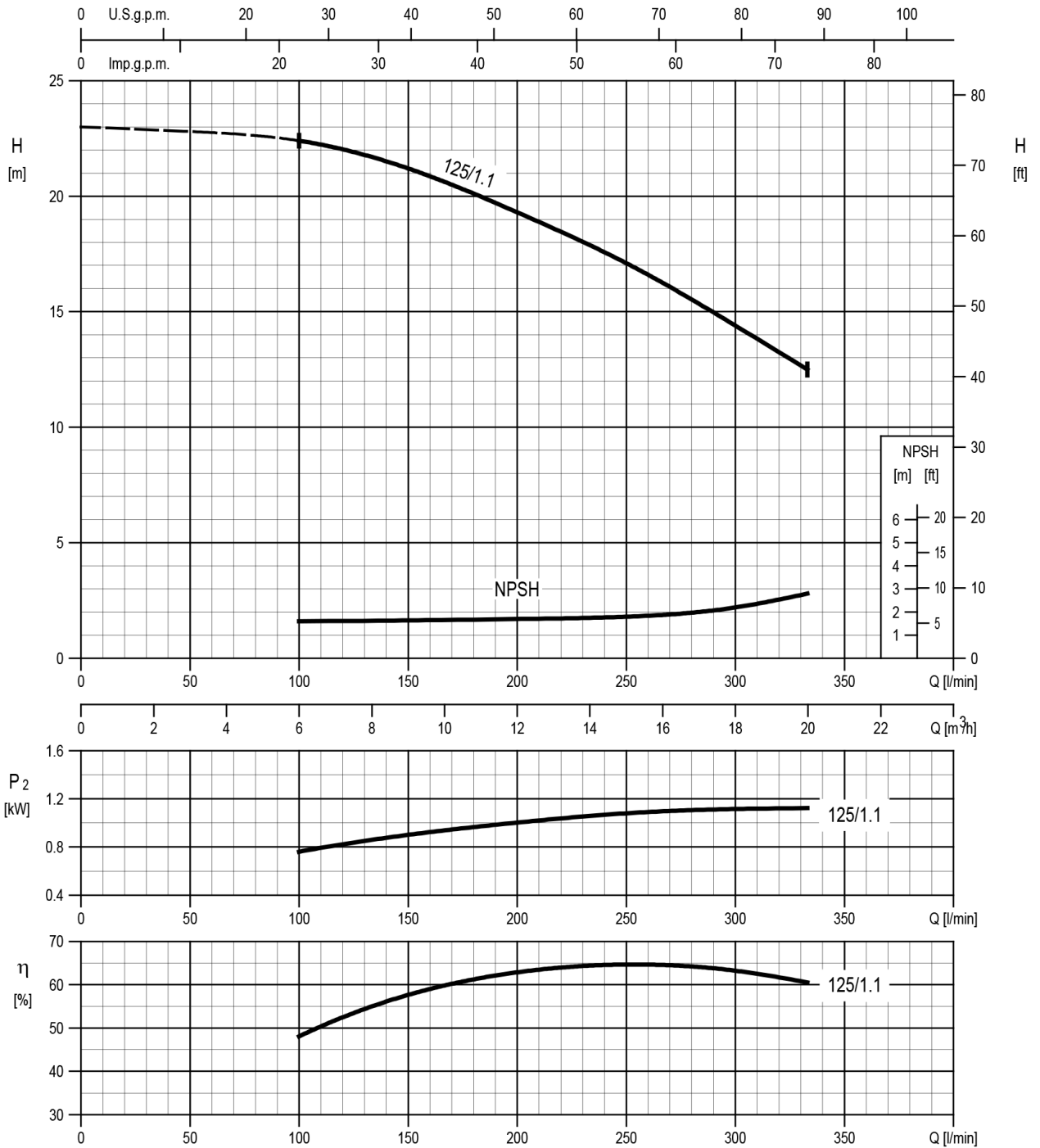
The operation of these water pumps with variable duty points may be more efficient and economical when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system.



MEI INDEX VALUE

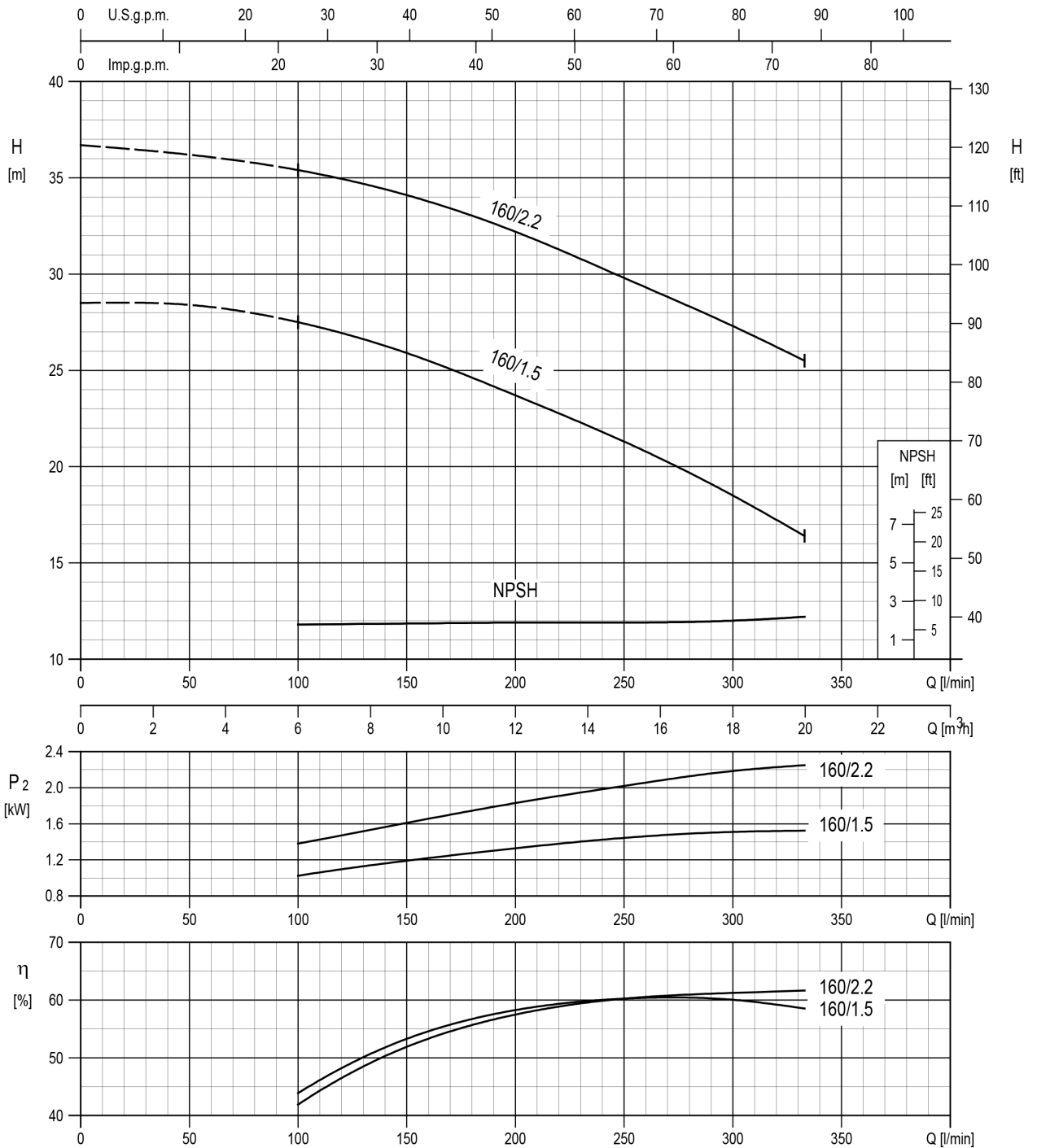
| SIZE | MEI VALUE | | |
|--------|-----------|-------|-------|
| | 3D | 3DS | 3DP |
| 32-125 | ≥ 0.5 | ≥ 0.5 | ≥ 0.4 |
| 32-160 | ≥ 0.5 | ≥ 0.5 | ≥ 0.4 |
| 32-200 | ≥ 0.5 | ≥ 0.5 | ≥ 0.5 |
| 40-125 | ≥ 0.4 | ≥ 0.4 | ≥ 0.4 |
| 40-160 | ≥ 0.7 | ≥ 0.7 | ≥ 0.7 |
| 40-200 | ≥ 0.7 | ≥ 0.7 | ≥ 0.7 |
| 50-125 | ≥ 0.4 | ≥ 0.4 | ≥ 0.4 |
| 50-160 | ≥ 0.5 | ≥ 0.5 | ≥ 0.5 |
| 50-200 | ≥ 0.7 | ≥ 0.7 | ≥ 0.6 |
| 65-125 | ≥ 0.4 | ≥ 0.4 | ≥ 0.4 |
| 65-160 | ≥ 0.7 | ≥ 0.7 | ≥ 0.6 |
| 65-200 | ≥ 0.4 | ≥ 0.4 | ≥ 0.4 |

32-125/1.1 – Impeller diameter = 133 mm



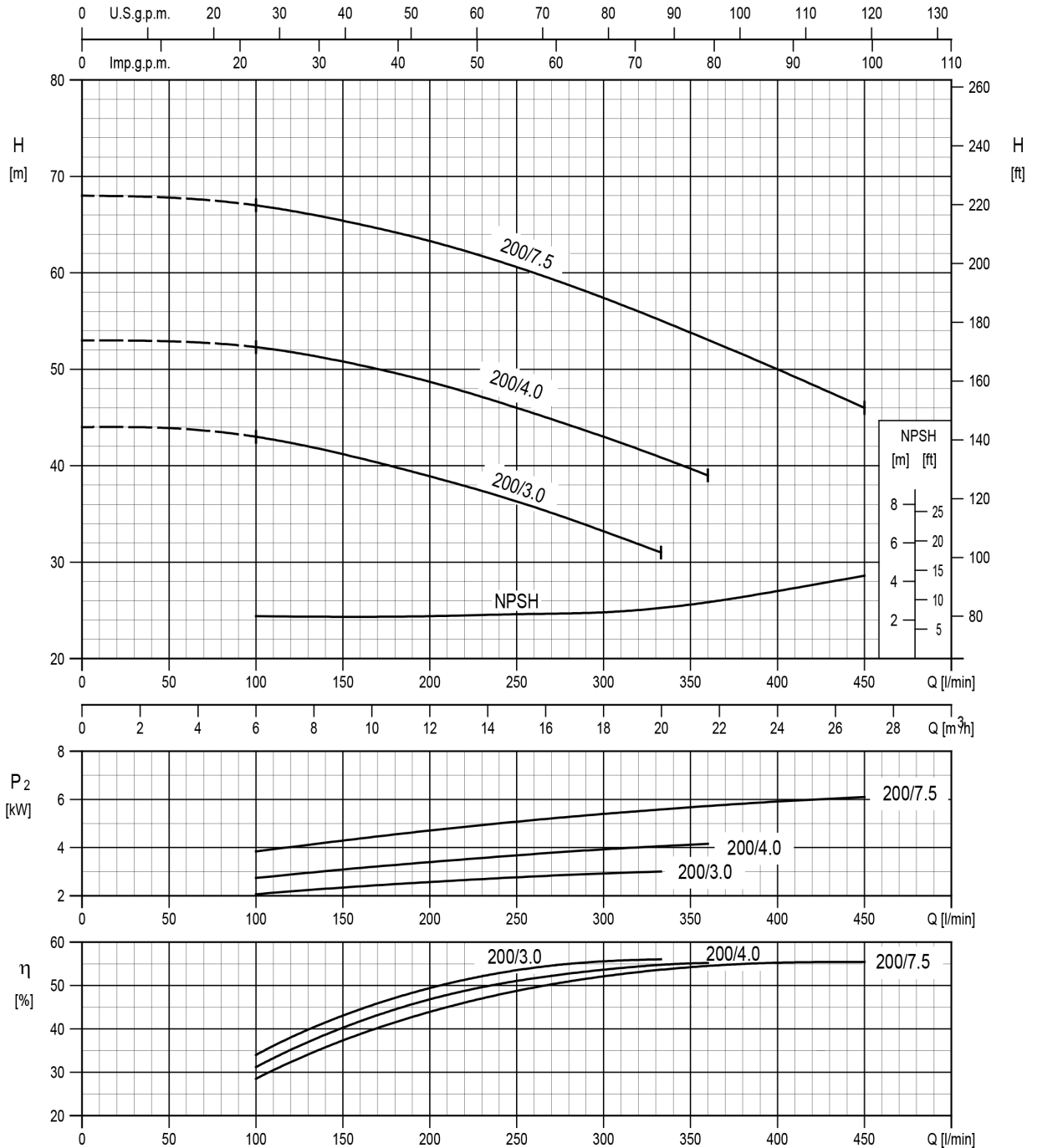
Rotation speed ≈ 2900 min⁻¹
 Test standard: ISO 9906:2012 – Grade 3B

32-160/1.5 – Impeller diameter = 151 mm
 32-160/2.2 – Impeller diameter = 166 mm



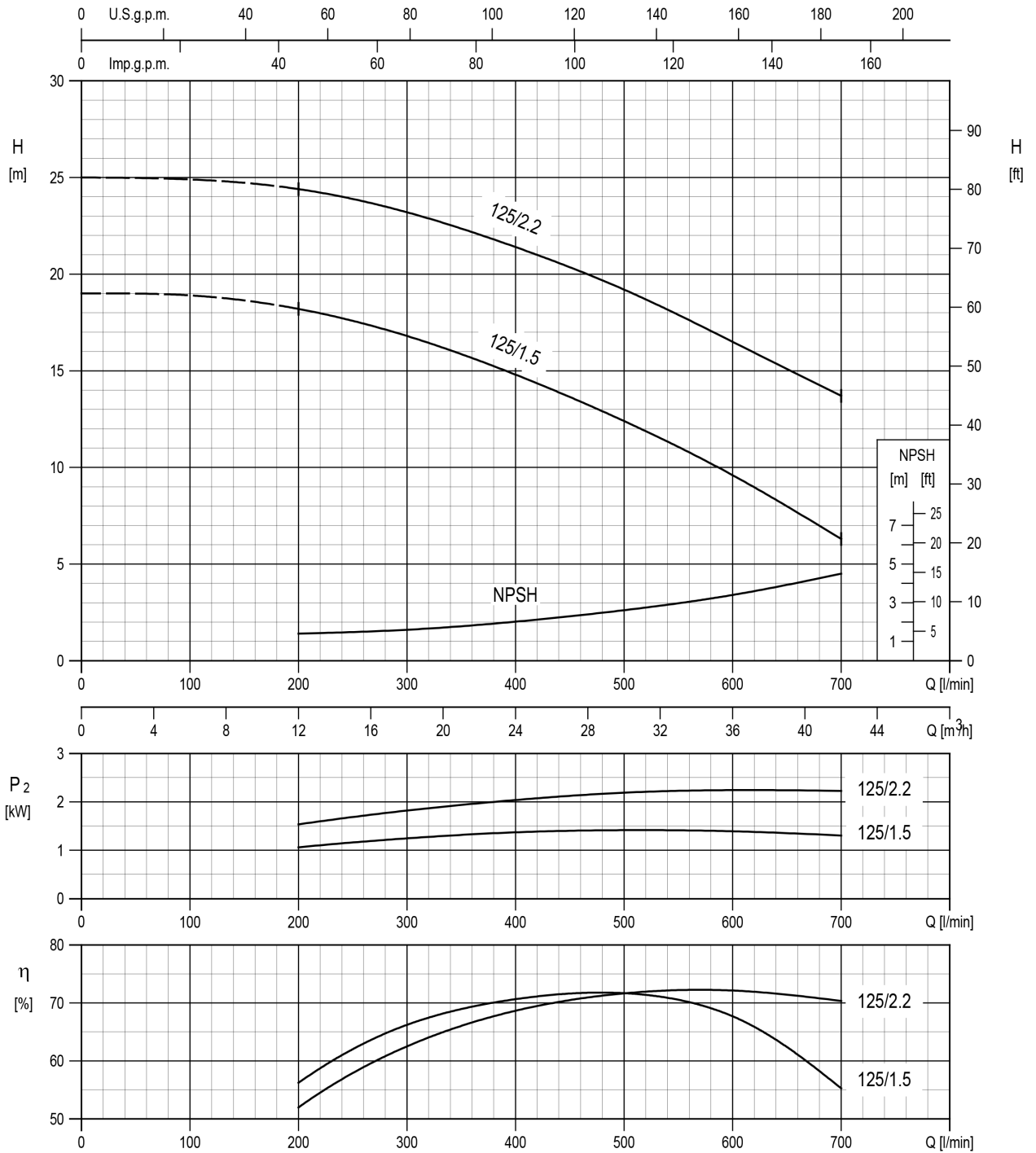
Rotation speed ≈ 2900 min⁻¹
 Test standard: ISO 9906:2012 – Grade 3B

32-200/3.0 – Impeller diameter = 186 mm
 32-200/4.0 – Impeller diameter = 200 mm
 32-200/7.5 – Impeller diameter = 224 mm



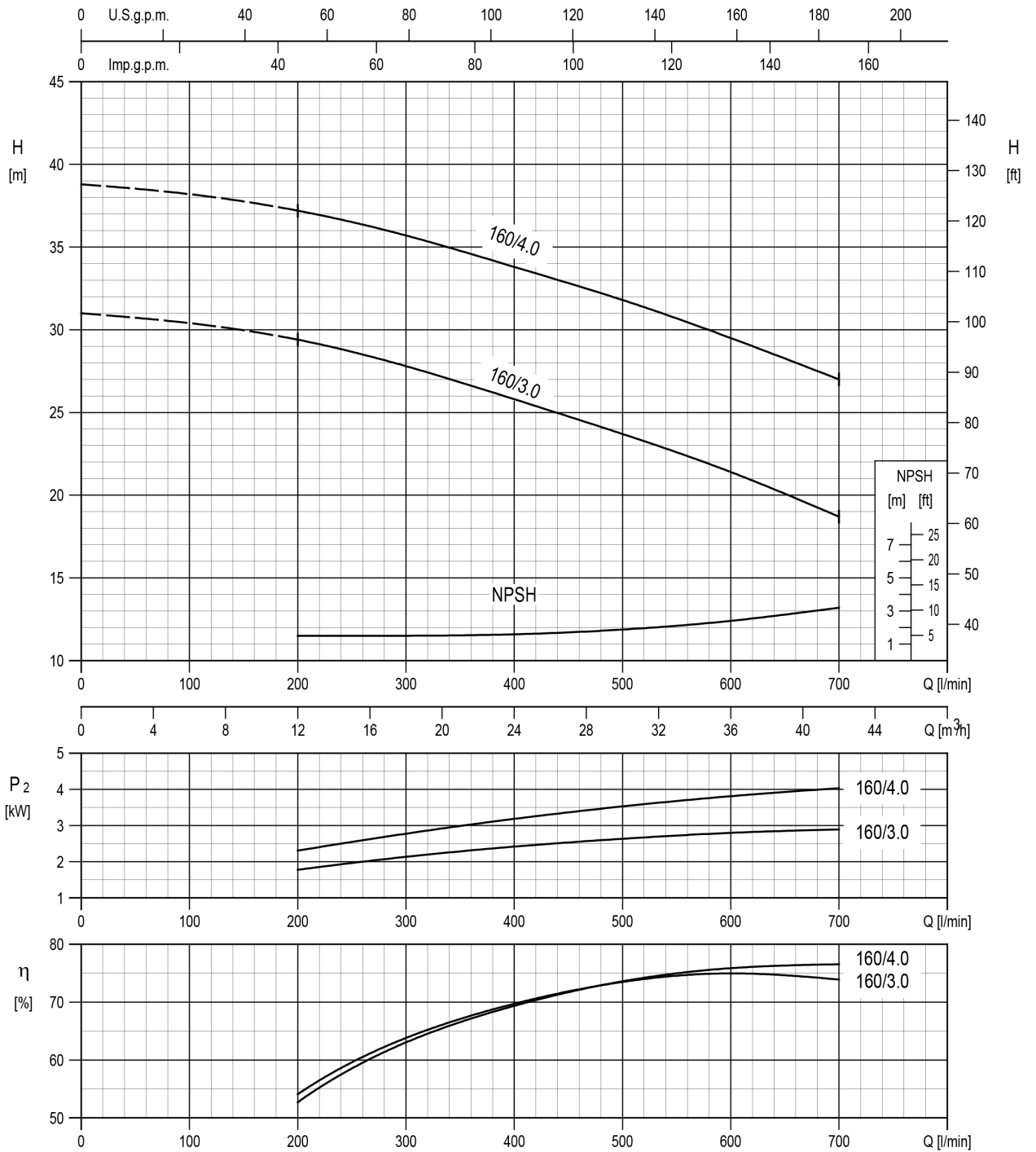
Rotation speed ≈ 2900 min⁻¹
 Test standard: ISO 9906:2012 – Grade 3B

40-125/1.5 – Impeller diameter = 125 mm
 40-125/2.2 – Impeller diameter = 140 mm



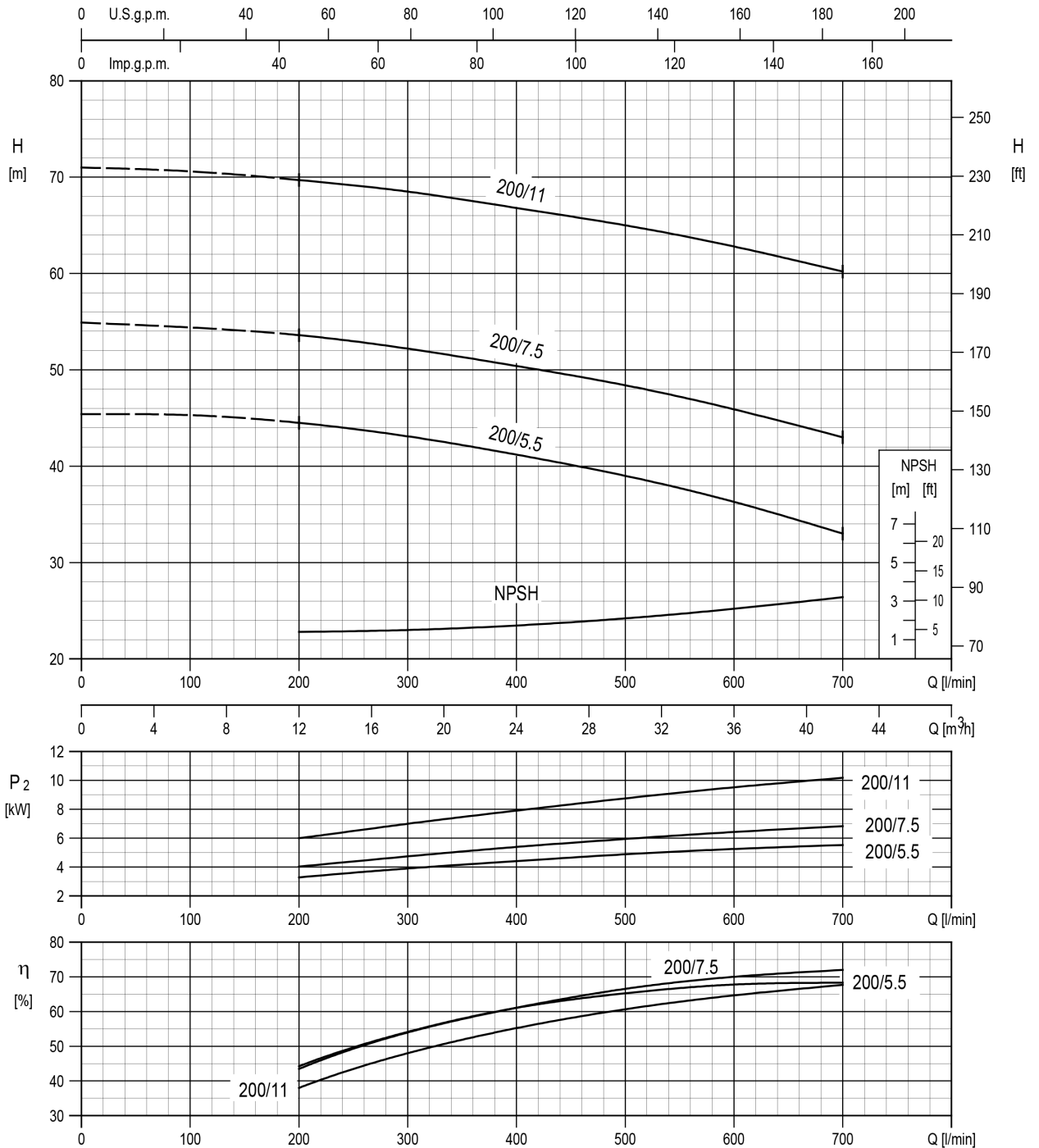
Rotation speed ≈ 2900 min⁻¹
 Test standard: ISO 9906:2012 – Grade 3B

40-160/3.0 – Impeller diameter = 151 mm
 40-160/4.0 – Impeller diameter = 166 mm



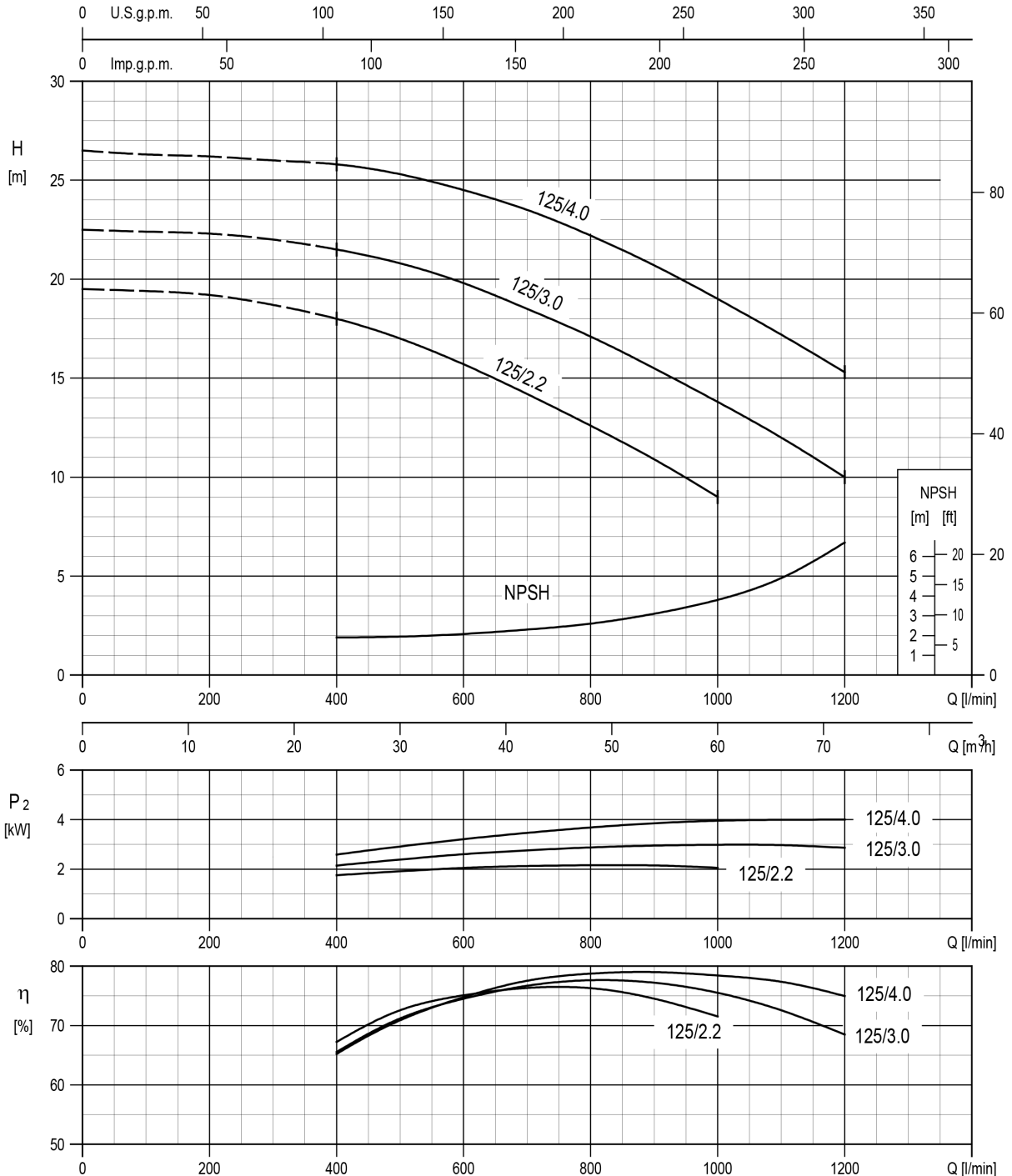
Rotation speed ≈ 2900 min⁻¹
 Test standard: ISO 9906:2012 – Grade 3B

40-200/5.5 – Impeller diameter = 183 mm
 40-200/7.5 – Impeller diameter = 200 mm
 40-200/11 – Impeller diameter = 224 mm



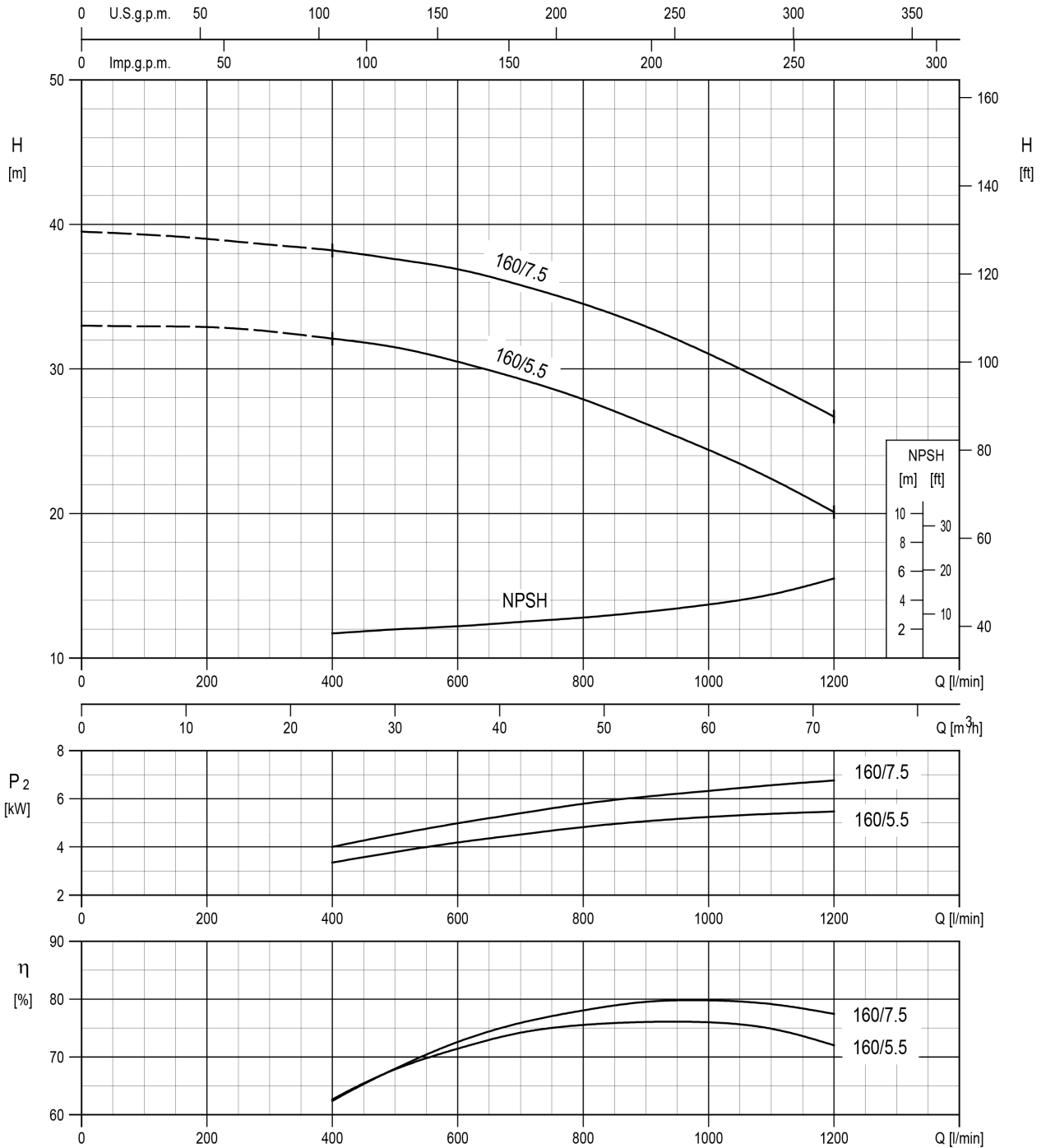
Rotation speed ≈ 2900 min⁻¹
 Test standard: ISO 9906:2012 – Grade 3B

50-125/2.2 – Impeller diameter = 126 mm
 50-125/3.0 – Impeller diameter = 131 mm
 50-125/4.0 – Impeller diameter = 140 mm



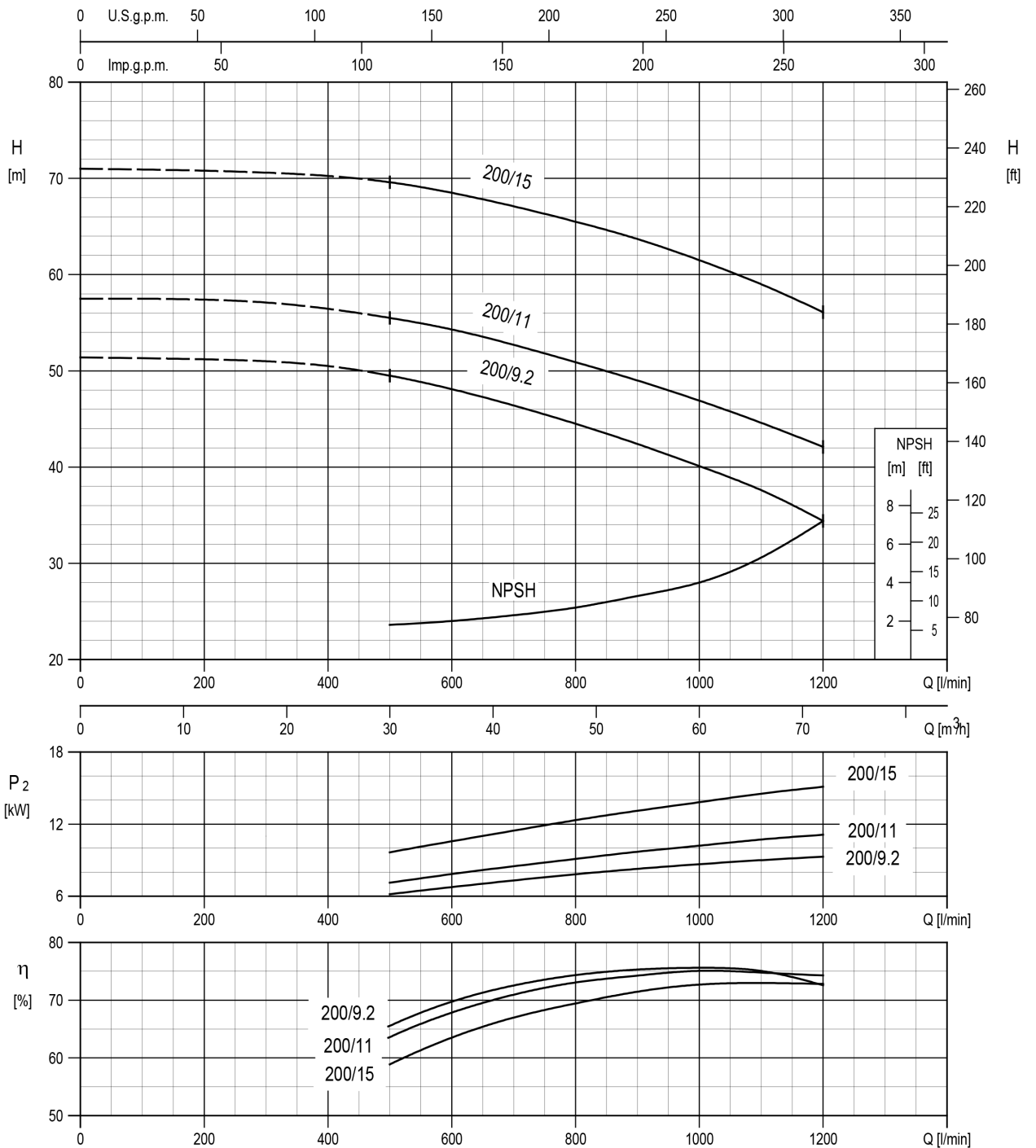
Rotation speed ≈ 2900 min⁻¹
 Test standard: ISO 9906:2012 – Grade 3B

50-160/5.5 – Impeller diameter = 154 mm
50-160/7.5 – Impeller diameter = 166 mm



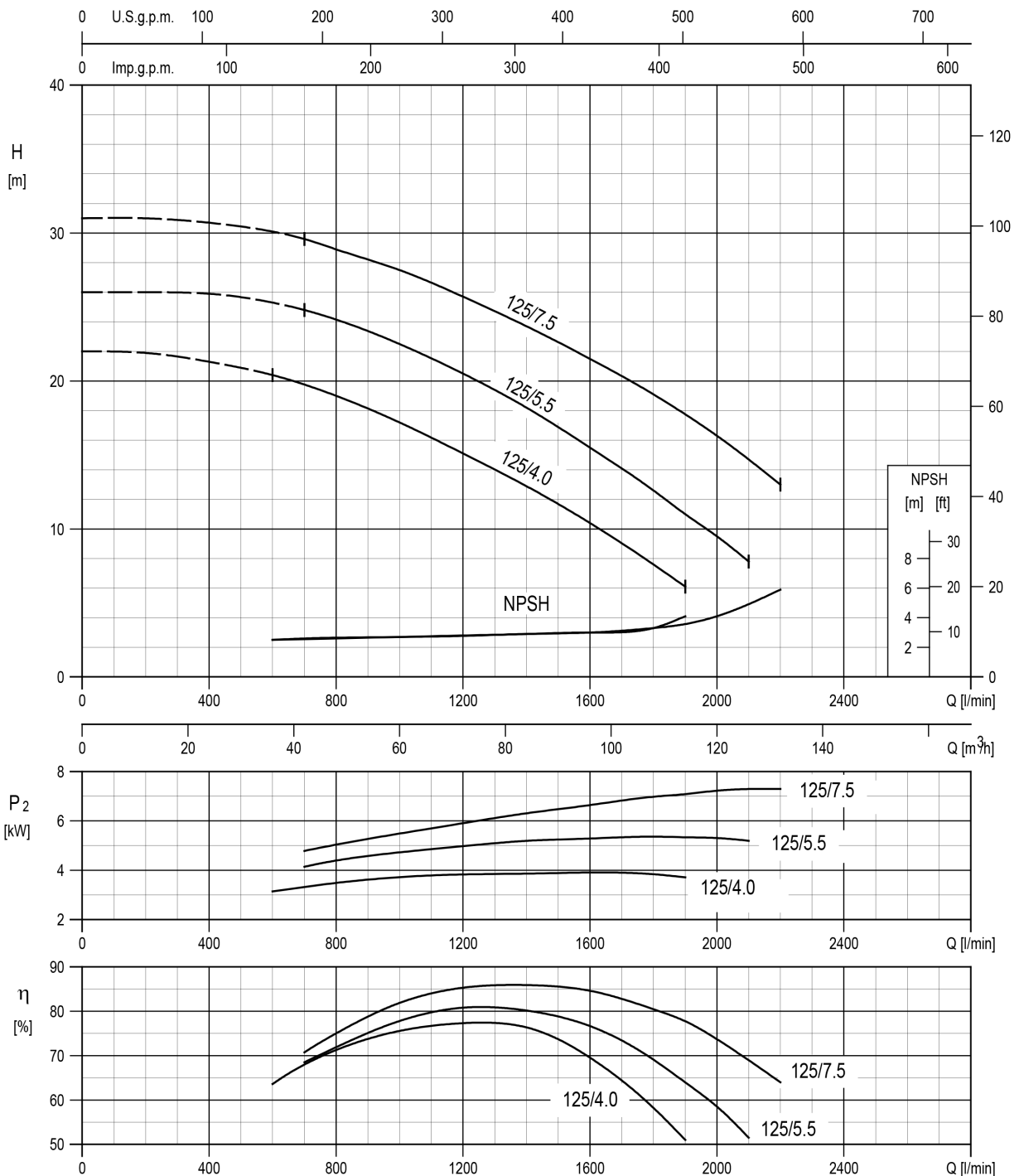
Rotation speed ≈ 2900 min⁻¹
 Test standard: ISO 9906:2012 – Grade 3B

50-200/9.2 – Impeller diameter = 191 mm
 50-200/11 – Impeller diameter = 200 mm
 50-200/15 – Impeller diameter = 224 mm



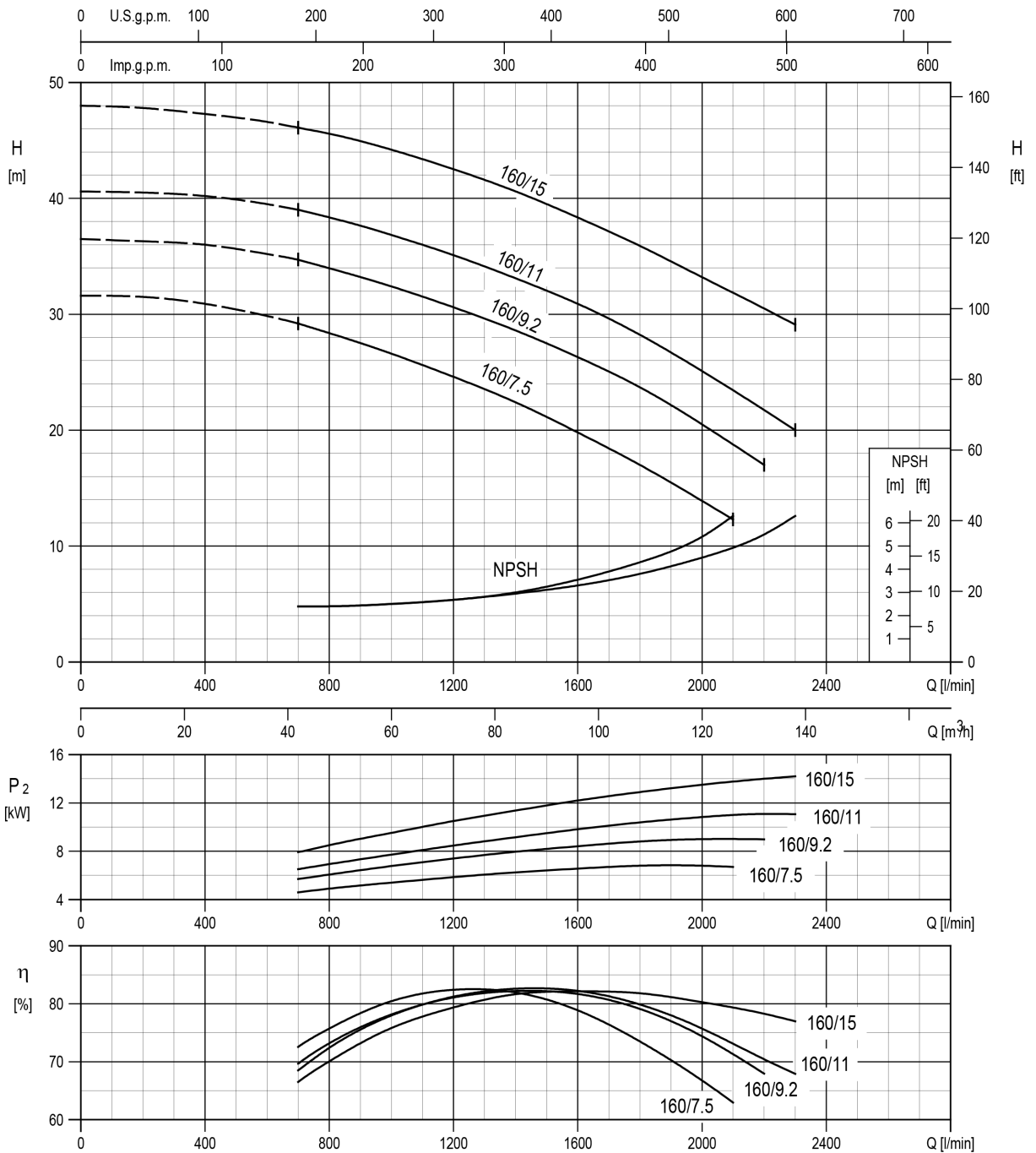
Rotation speed ≈ 2900 min⁻¹
 Test standard: ISO 9906:2012 – Grade 3B

65-125/4.0 – Impeller diameter = 128 mm
 65-125/5.5 – Impeller diameter = 138 mm
 65-125/7.5 – Impeller diameter = 149 mm



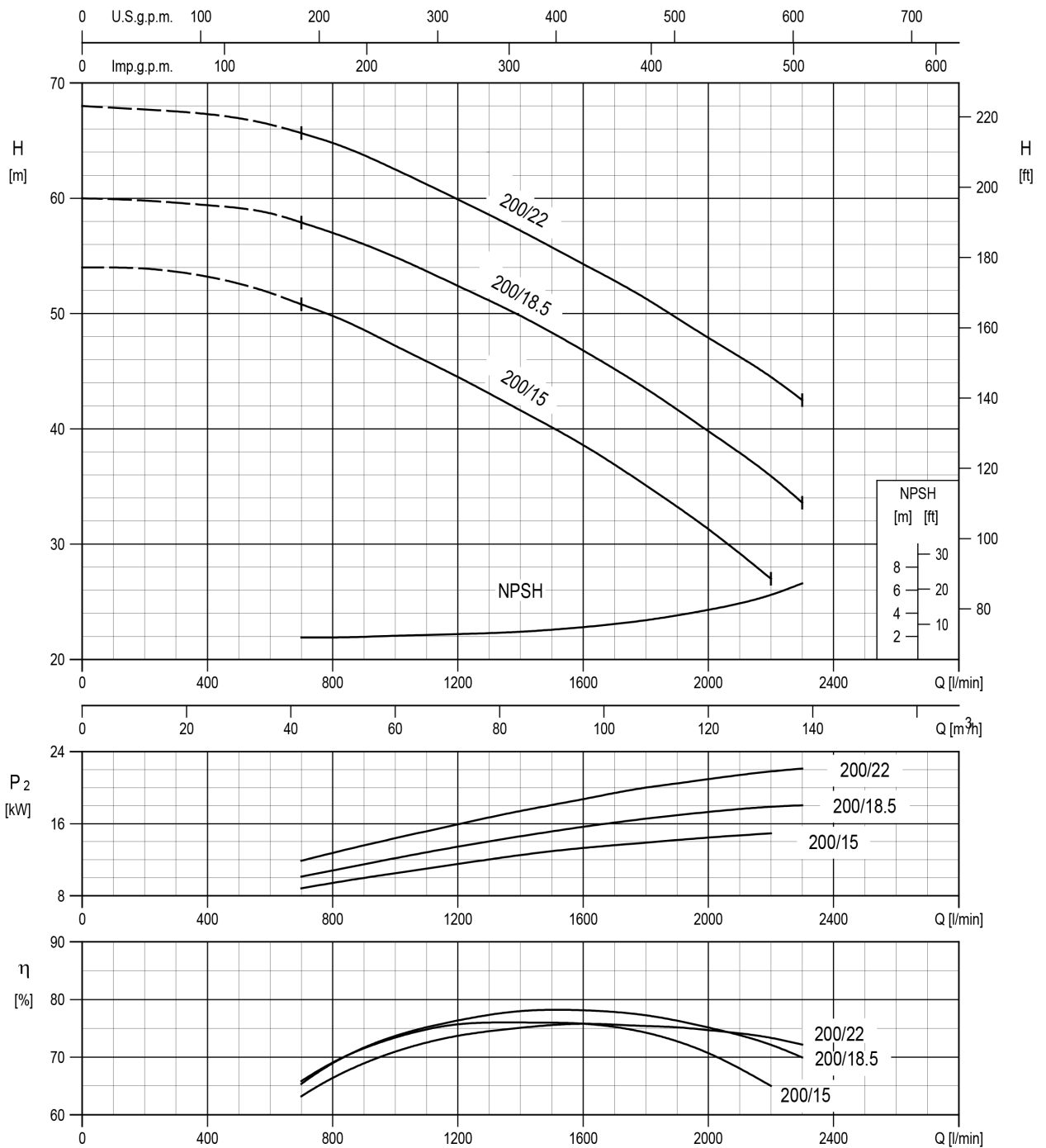
Rotation speed $\approx 2900 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 – Grade 3B

65-160/7.5 – Impeller diameter = 153 mm
 65-160/9.2 – Impeller diameter = 160 mm
 65-160/11 – Impeller diameter = 168 mm
 65-160/15 – Impeller diameter = 178 mm



Rotation speed $\approx 2900 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 – Grade 3B

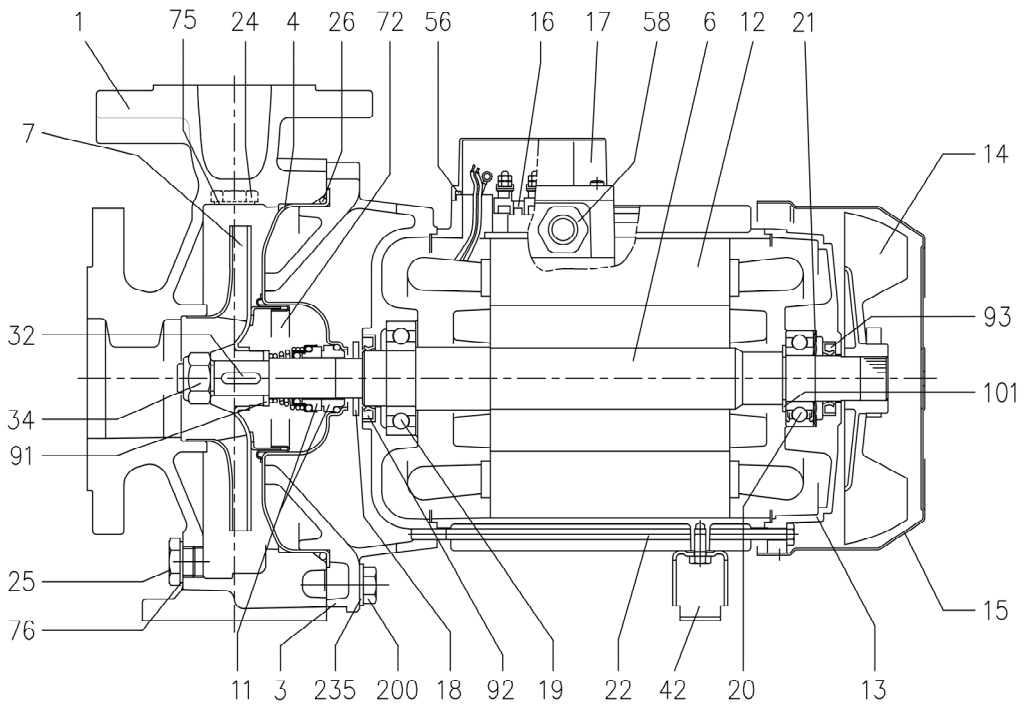
65-200/15 – Impeller diameter = 190 mm
 65-200/18.5 – Impeller diameter = 201 mm
 65-200/22 – Impeller diameter = 212 mm



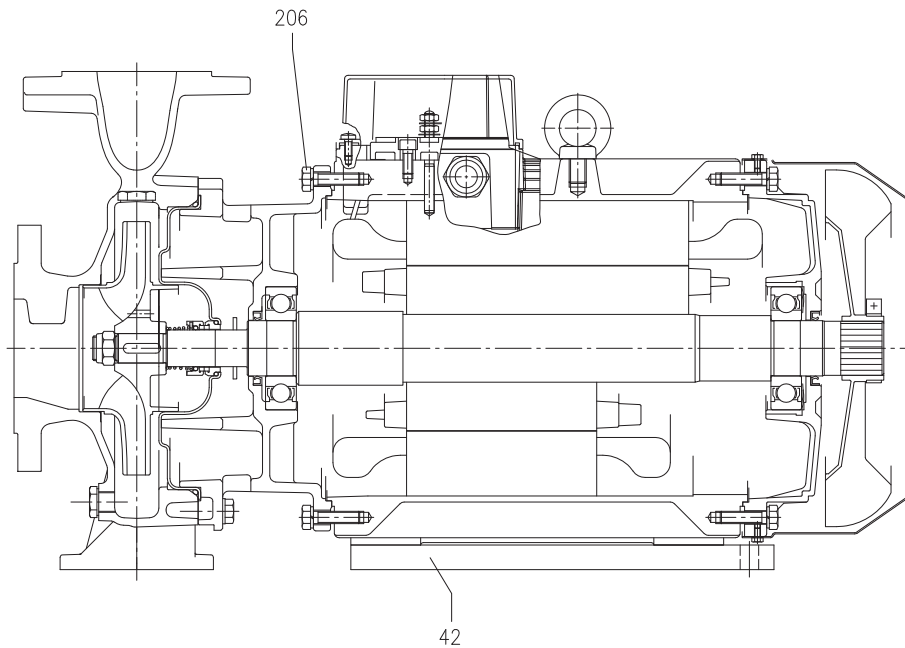
Rotation speed $\approx 2900 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 – Grade 3B

3D SECTIONAL VIEW DRAWING

UP TO 11 kW



15 kW AND ABOVE

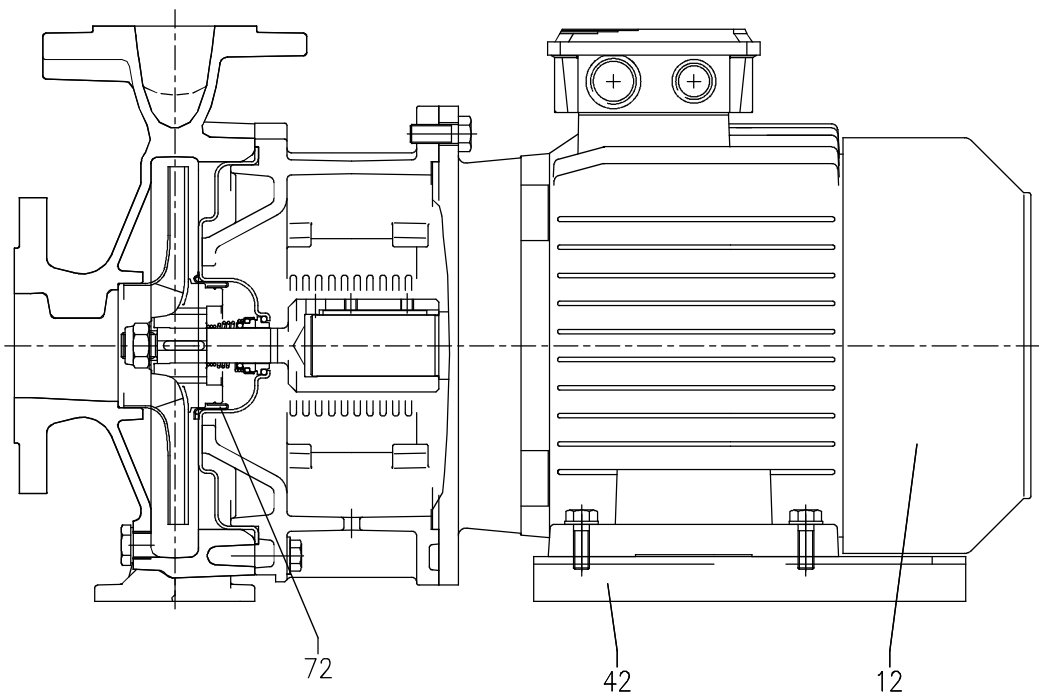
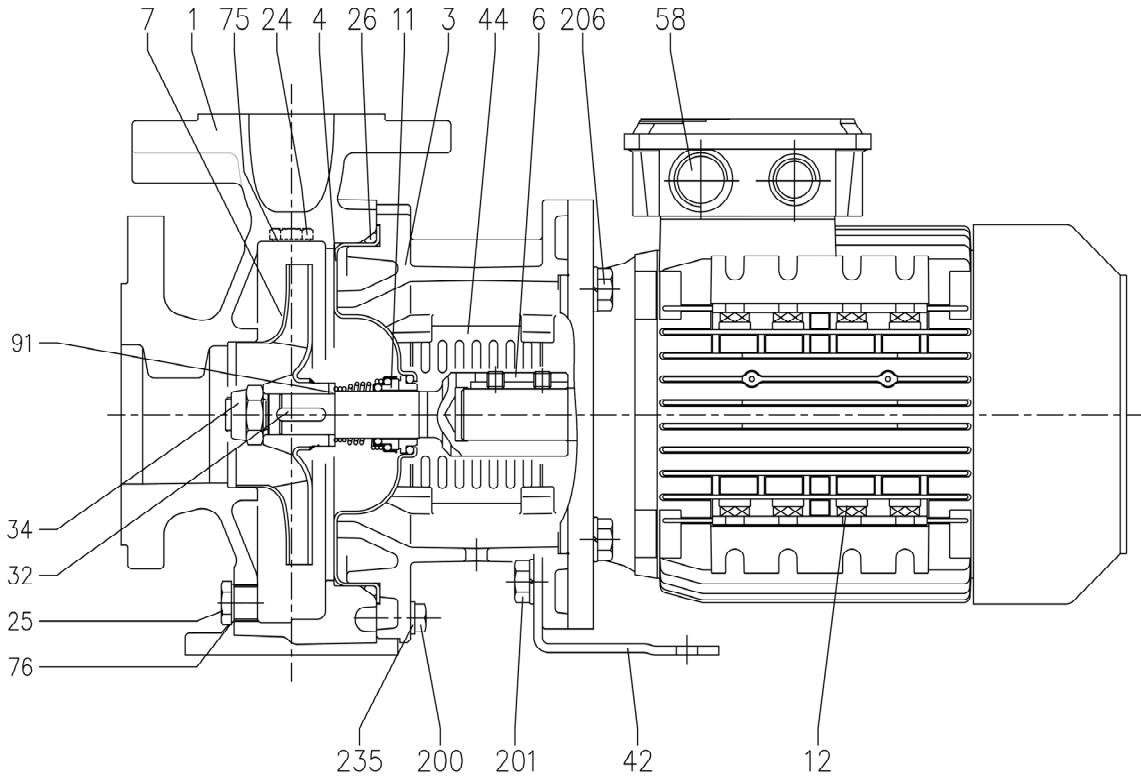


3D SECTIONAL VIEW TABLE

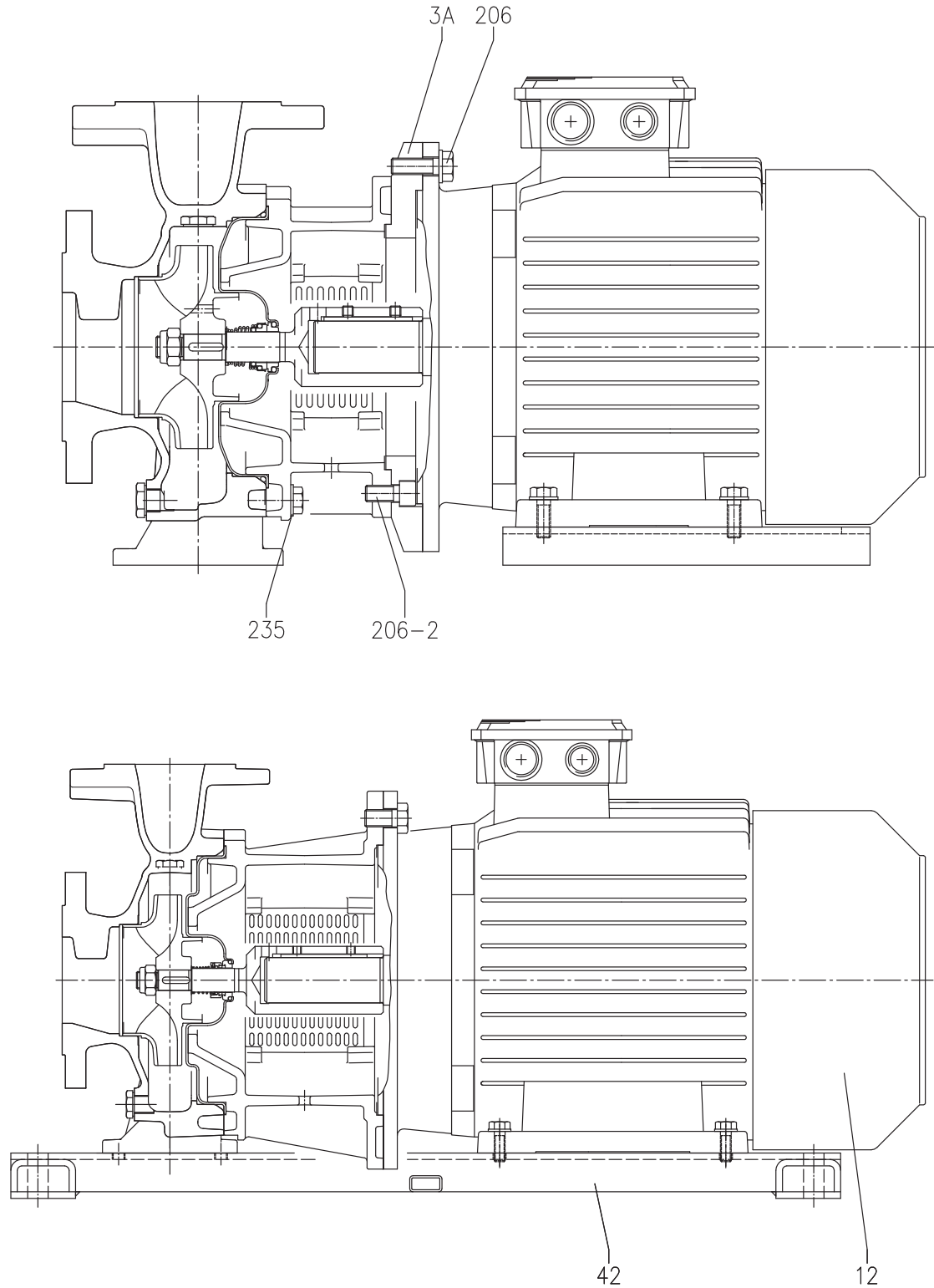
| N° | PART NAME | MATERIAL | DIMENSIONS | STANDARD | Q.TY |
|-----|---|--|-------------------------------|----------------------------|------|
| 1 | Casing | Cast iron EN-GJL-250-EN 1561 | | | 1 |
| 3 | Motor bracket [1] | - | | | 1 |
| 4 | Casing cover | EN 1.4301 (AISI 304) | | | 1 |
| 6 | Shaft with rotor - Wet extension | EN 1.4301 (AISI 304) | | | 1 |
| 7 | Impeller [2] | - | | | 1 |
| 11 | Mechanical seal [3] | - | | | 1 |
| 12 | Motor frame with stator | - | | | 1 |
| 13 | Motor cover | Aluminium | | | 1 |
| 14 | Fan | PA | | | 1 |
| 15 | Fan cover | Fe P04 Galvanized | | | 1 |
| 16 | Terminal | - | | | 1 |
| 17 | Terminal box cover | Aluminium (three phase version) | | | 1 |
| 18 | Splash ring | NBR | Up to 11 kW 40x21.5x2 | EBARA DRAWING | 1 |
| | 15 kW and above | | 50x29.5x3 | | |
| 19 | Bearing [10] | - | | | 1 |
| 20 | Bearing [10] | - | | | 1 |
| 21 | Adjusting ring | Steel C70 | | | 1 |
| 22 | Tie rod | Fe 42 Galvanized | Up to 3 kW M5 | EBARA DRAWING | 4 |
| | For 4 - 5.5 - 7.5 kW M6 | | | | |
| | 9.2 e 11kW M8 | | | | |
| | Screw | Gv. Steel 8.8 strenght class ISO 898-1 | M10x40 | UNI 5739 | |
| 24 | Priming plug | Brass | G 3/8" L=8 | | 1 |
| 25 | Draining plug | Brass | G 3/8" L=8 | | 1 |
| 26 | O-ring | NBR/FPM/EPDM | 32-125, 40-125 158.11x5.34 | 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 | |
| | | | | | |
| 32 | Key | EN 1.4401 (AISI 316) | Up to 11 kW A 6x6x25 | UNI 6604 | 1 |
| | 50-200/15 15 kW and above | | A 8x7x30 | | |
| 34 | Impeller nut | EN 1.4301 (AISI 304) | Up to 11kW M16x1.5 | UNI 7474 | 1 |
| | 50-200/15 | | M18x1.5 | | |
| | 15 kW and above | | M20x1.5 | | |
| 42 | Foot | Aluminium / Galvanized steel | | EBARA DRAWING | [5] |
| 56 | Box gasket | NBR | | | 1 |
| 58 | Cable gland | - | | | [6] |
| 72 | Casing ring [7] | EN 1.4301 (AISI 304) | | | 1 |
| 75 | Washer | Aluminium | 22x17x1.5 | EBARA DRAWING | 1 |
| 76 | Washer | Aluminium | | | 1 |
| 91 | Impeller spacer [11] | EN 1.4401 (AISI 316) | | | 1 |
| 92 | Lip seal | - | Up to 3kW 25x40x7 | DIN 3760 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 | | | | |
| | | | | | |
| 93 | Lip seal | - | Up to 4 kW 25x40x7 | DIN 3760 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 [8] | Carbon tool steels TC 80 | Ø 40 | UNI 7435 | 1 |
| 200 | Screw | Gv. Steel 8.8 strenght class ISO 898-1 | 32-125, 40-125 M 8x30 | UNI 5739 | 8 |
| | 32-160, 40-160, 50-125, 65-125 | | | | 10 |
| | 32-200, 40-200, 50-160 | | M 10x35 | | 12 |
| | 50-200, 65-160, 65-200 | | | | |
| 235 | Washer | Galvanized Steel | 32-125, 40-125 8.4x17 | UNI 6592 | 8 |
| | 32-160, 40-160, 50-125, 65-125 | | | | 10 |
| | 32-200, 40-200, 50-160 | | 10.5x21 | | 12 |
| | 50-200, 65-160, 65-200 | | | | |
| 206 | Screw for bracket [9] | Gv. Steel 8.8 strenght class ISO 898-1 | M 10x40 | UNI 5739 | 4 |

- [1] Cast iron EN-GJL-200-EN 1561 for 3D 32-200/3 and models with 15, 18.5, 22 kW motor
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] See **MECHANICAL SEAL** pages from 307 to 310
- [4] See **MECHANICAL SEAL**, "O-ring" column, pages from 307 to 310
- [5] 0 for 65-160/15 kW;
1 for pumps up to 11 kW
2 for 65-200/15, 18.5, 22 kW
- [6] 1 for pumps with motor up to 11 kW
2 for pumps with 15 kW motor and above
- [7] Only for: 32-200, 40-200, 50-160, 50-200/9.2, 50-200/11
- [8] Only for pumps with 9.2 and 11 kW motor
- [9] Only for pumps with 15 kW motor and above
- [10] See **3D BEARINGS** page 311
- [11] Only for 32-125/1.1

3DS 32, 40, 50 SECTIONAL VIEW DRAWING



3DS 65 SECTIONAL VIEW DRAWING



3DS SECTIONAL VIEW TABLE

| N° | PART NAME | MATERIAL | DIMENSIONS | STANDARD | Q.TY |
|-------|-------------------------------|--|--|---------------|----------|
| 1 | Casing | Cast iron EN-GJL-250-EN 1561 | | | 1 |
| 3 | Motor bracket | Cast iron EN-GJL-200-EN 1561 | | | 1 |
| 3A | Adapter ring [1] | Cast iron EN-GJL-200-EN 1561 | | | 1 |
| 4 | Casing cover | EN 1.4301 (AISI 304) | | | 1 |
| 6 | Coupling - Wet extensions [8] | EN 1.4301 (AISI 304) | | | 1 |
| 7 | Impeller [2] | - | | | 1 |
| 11 | Mechanical seal [3] | - | | | 1 |
| 12 | Motor | - | | | 1 |
| 24 | Priming plug | Brass | G 3/8" L=8 | | 1 |
| 25 | Draing plug | Brass | G 3/8" L=8 | | 1 |
| 26 | O-ring [4] | NBR/FPM/EPDM | 32-125/40-125, 32-160, 40-160, 50-125, 65-125 | OR 6625 | 1 |
| | | | 32-200, 40-200, 50-160, 50-200, 65-160, 65-200 | OR 6720 | |
| | | | | OR 6895 | |
| 32 | Key | EN 1.4401 (AISI 316) | Up to 11 kW | 6x6x25 | UNI 6604 |
| | | | 50-200/15 15 kW and above | 8x7x30 | |
| 34 | Impeller nut | EN 1.4301 (AISI 304) | Up to 11kW | M16x1.5 | UNI 7474 |
| | | | 50-200/15 | M18x1.5 | |
| | | | 15 kW and above | M20x1.5 | |
| 42 | Foot | Galvanized Steel | | | [5] |
| 44 | Protection | EN 1.4301 (AISI 304) | | EBARA DRAWING | 1 |
| 58 | Cable gland | - | | | |
| 72 | Casing ring [6] | EN 1.4301 (AISI 304) | | | 1 |
| 75 | Washer | Aluminum | 22x17x1.5 | EBARA DRAWING | 1 |
| 76 | Washer | Aluminum | | | 1 |
| 91 | Impeller spacer [9] | EN 1.4401 (AISI 316) | | | 1 |
| 200 | Screw | Gv. Steel 8.8 strenght class ISO 898-1 | 32-125, 40-125 | M8x30 | 8 |
| | | | 32-160, 40-160, 50-125, 65-125 | | 10 |
| | | | 32-200, 40-200, 50-160, 50-200, 65-160, 65-200 | M10x35 | 12 |
| | | | | | |
| 201 | Screw [7] | 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 | Galvanized Steel | 32-125, 40-125 | 8.4x17 | 8 |
| | | | 32-160, 40-160, 50-125, 65-125 | | 10 |
| | | | 32-200, 40-200, 50-160, 50-200, 65-160, 65-200 | 10.5x21 | 12 |
| | | | | | |

[1] Only for 65-125/5.5 and 65-125/7.5

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

[3] See **MECHANICAL SEAL** pages from 307 to 310

[4] See **MECHANICAL SEAL**, "O-ring" column, pages from 307 to 310

[5] 0 for version 65-200/22

1 for version for 32, 40, 50, 65-125/5.5, 65-125/7.5, 65-160/11, 65-160/15, 65-200/15, 65-200/18.5

2 for version for 65-125/4, 65-160/7.5, 65-160/9.2

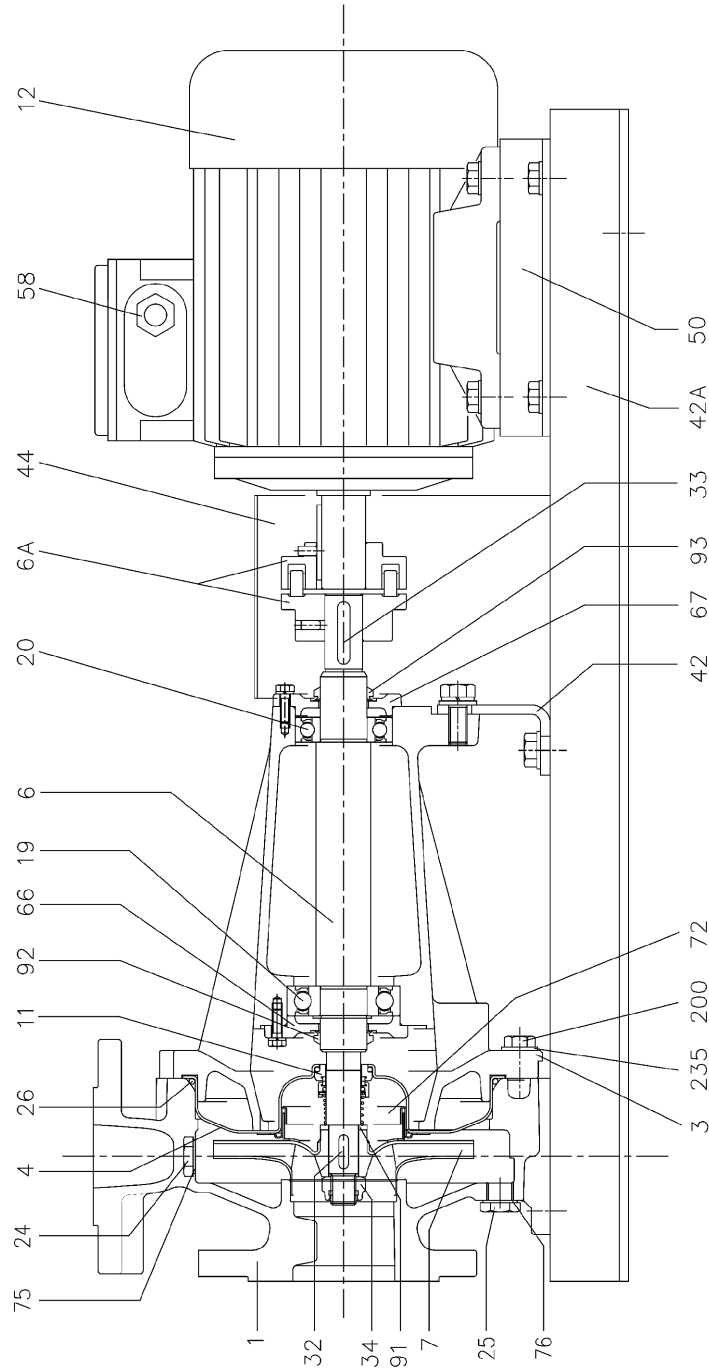
[6] Only for: 32-200, 40-200, 50-160, 50-200

[7] Only for version 32-125/1.1, 32-160/1.5, 32-160/2.2, 40-125/1.5, 40-125/2.2, 50-125/2.2

[8] See **3DS COUPLING** page 313

[9] Only for 32-125/1.1

3DP SECTIONAL VIEW DRAWING



3DP SECTIONAL VIEW TABLE

| N° | PART NAME | MATERIAL | DIMENSIONS | STANDARD | Q.TY | |
|-----|-----------------------------|--|--------------------------------|---------------|----------|----|
| 1 | Casing | Cast iron EN-GJL-250-EN 1561 | | | 1 | |
| 3 | Support | Cast iron EN-GJL-200-EN 1561 | | | 1 | |
| 4 | Casing cover | EN 1.4301 (AISI 304) | | | 1 | |
| 6 | Shaft - Wet extension | EN 1.4301 (AISI 304) | | | 1 | |
| 6A | Flexible coupling [5] | Cast iron EN-GJL-250-EN 1561 | | | 1 | |
| 7 | Impeller [1] | - | | | 1 | |
| 11 | Mechanical seal [2] | - | | | 1 | |
| 12 | Motor | - | | | 1 | |
| 19 | Bearing [6] | - | | | 1 | |
| 20 | Bearing [6] | - | | | 1 | |
| 24 | Priming plug | Brass | G 3/8" L=8 | DIN 906 | 1 | |
| 25 | Draing plug | Brass | G 3/8" L=8 | DIN 906 | 1 | |
| 26 | O-ring [3] | NBR/FPM/EPDM | 32-125, 40-125 | 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 | |
| 32 | Key | EN 1.4401 (AISI 316) | Up to 11 kW | 6x6x25 | UNI 6604 | 1 |
| | | | 50-200/15 | 8x7x30 | | |
| | | | 15 kW and above | | | |
| 33 | Key | C 40 | 8x7x40 | UNI 6604 | 1 | |
| 34 | Impeller nut | EN 1.4301 (AISI 304) | Up to 11kW | M16x1.5 | UNI 7474 | 1 |
| | | | 50-200/15 | M18x1.5 | | |
| | | | 15 kW and above | M20x1.5 | | |
| 42 | Pump support | Fe 37 Galvanized | | EBARA DRAWING | 1 | |
| 42A | Base | Fe 37 Galvanized | | | 1 | |
| 44 | Protection | Fe 37 Galvanized | | | 1 | |
| 50 | Foot | Aluminium / Galvanized steel | | | 1 | |
| 58 | Cable gland | - | | | 1 | |
| 66 | Impeller side bearing cover | Cast iron EN-GJL-200-EN 1561 | | | 1 | |
| 67 | Motor side bearing cover | Cast iron EN-GJL-200-EN 1561 | | | 1 | |
| 72 | Casing ring [4] | EN 1.4301 (AISI 304) | | | 1 | |
| 75 | Washer | Aluminum | 22x17x1.5 | EBARA DRAWING | 1 | |
| 76 | Washer | Aluminum | 22x17x1.5 | EBARA DRAWING | 1 | |
| 91 | Impeller spacer [7] | EN 1.4401 (AISI 316) | | | 1 | |
| 92 | "V" ring | - | VS - 0030 | | 1 | |
| 93 | "V" ring | - | VS - 0030 | | 1 | |
| 200 | Screw | Gv. Steel 8.8 strenght class ISO 898-1 | 32-125, 40-125 | M 8x30 | UNI 5739 | 8 |
| | | | 32-160, 40-160, 50-125, 65-125 | | | 10 |
| | | | 32-200, 40-200, 50-160 | M 10x35 | | 12 |
| | | | 50-200, 65-160, 65-200 | | | |
| 235 | Washer | Galvanized Steel | 32-125, 40-125 | 8.4x17 | UNI 6592 | 8 |
| | | | 32-160, 40-160, 50-125, 65-125 | | | 10 |
| | | | 32-200, 40-200, 50-160 | 10.5x21 | | 12 |
| | | | 50-200, 65-160, 65-200 | | | |

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

[2] See **MECHANICAL SEAL** pages from 307 to 310

[3] See **MECHANICAL SEAL**, "O-ring" column, pages from 307 to 310

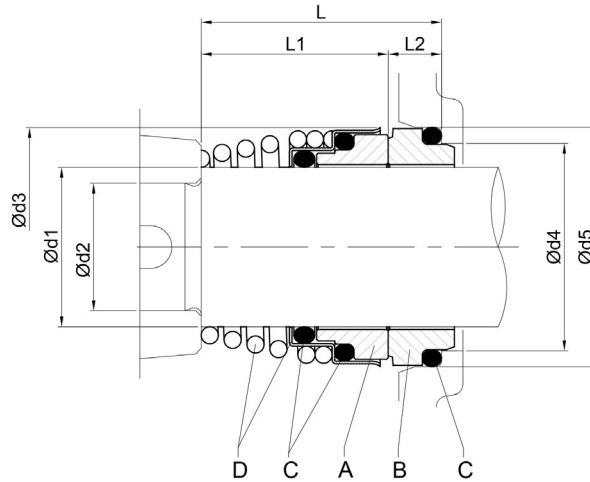
[4] Only for: 32-200, 40-200, 50-160, 50-200

[5] See **3DP FLEXIBLE COUPLING** page 314

[6] See **3DP BEARINGS** page 312

[7] Only for 32-125/1.1

MECHANICAL SEAL

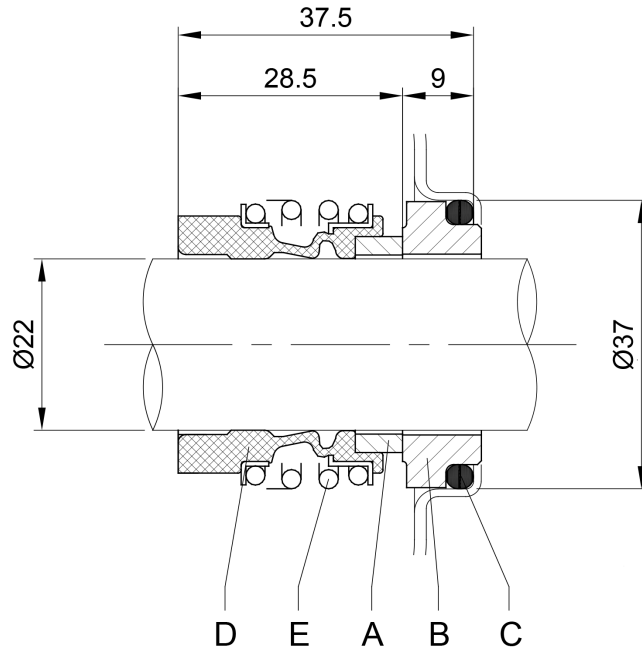


| Pump type | Dimensions [mm] | | | | | | | | Material | | | |
|-----------|-------------------|----|----|----|----|------|------|----|-----------------------|---------------------------|-------------|-------------------------|
| | d1 | d2 | d3 | d4 | d5 | L | L1 | L2 | A Rotary seal ring | B Stationary seal ring | C O-ring | D Frame + Spring |
| STANDARD | 32-125/160/200 | | | | | | | | Ceramic | Carbon | NBR | EN 1.4301 (AISI 304) |
| | 40-125/160/200 | | | | | | | | | | | |
| | 50-125/160/200 | | | | | | | | | | | |
| | 65-125 | | | | | | | | | | | |
| | 65-160/7.5-9.2-11 | | | | | | | | | | | |
| 65-160/15 | 30 | 24 | 46 | 39 | 45 | 42.5 | 32.5 | 10 | | | | EN 1.4401 (AISI 316) |
| 65-200 | | | | | | | | | | | | |

| Version | Pump type | Dimensions [mm] | | | | | | | | Material | | | |
|-----------|-----------|-------------------|----|----|----|------|------|----|----|-----------------------|---------------------------|-------------|-------------------------|
| | | d1 | d2 | d3 | d4 | d5 | L | L1 | L2 | A Rotary seal ring | B Stationary seal ring | C O-ring | D Frame + Spring |
| OPTIONAL | H | 32-125/160/200 | | | | | | | | Ceramic | Carbon | FPM | EN 1.4401 (AISI 316) |
| | | 40-125/160/200 | | | | | | | | | | | |
| | | 50-125/160/200 | | | | | | | | | | | |
| | | 65-125 | | | | | | | | | | | |
| | | 65-160/7.5-9.2-11 | | | | | | | | | | | |
| 65-160/15 | 30 | 24 | 46 | 39 | 45 | 42.5 | 32.5 | 10 | | | | | |
| 65-200 | | | | | | | | | | | | | |
| E | | 32-125/160/200 | | | | | | | | | | EPDM | EN 1.4401 (AISI 316) |
| | | 40-125/160/200 | | | | | | | | | | | |
| | | 50-125/160/200 | | | | | | | | | | | |
| | | 65-125 | | | | | | | | | | | |
| | | 65-160/7.5-9.2-11 | | | | | | | | | | | |
| 65-160/15 | 30 | 24 | 46 | 39 | 45 | 42.5 | 32.5 | 10 | | | | | |
| 65-200 | | | | | | | | | | | | | |

| Version | Pump type | Dimensions [mm] | | | | | | | | Material | | | | | | | | | | | |
|-------------------|----------------|-------------------|----|----|----|----|----|------|--------|-----------------------|---------------------------|-------------|-------------------------|------------------|--|--|--|--|--|--|--|
| | | d1 | d2 | d3 | d4 | d5 | L | L1 | L2 | A Rotary seal ring | B Stationary seal ring | C O-ring | D Frame + Spring | | | | | | | | |
| SPECIAL | U3U3EGG | 65-160/15 | | | | | | | | Tungsten carbide | Tungsten carbide | EPDM | EN 1.4401 (AISI 316) | | | | | | | | |
| | | 65-200 | | | | | | | Carbon | | | | | | | | | | | | |
| | U3CEGG | 65-160/15 | | | | | | | | SIC | | | | | | | | | | | |
| | | 65-200 | | | | | | | | | | | | | | | | | | | |
| | Q1Q1EGG | 65-160/15 | 30 | 24 | 46 | 39 | 45 | 42.5 | 32.5 | 10 | SIC | | | Tungsten carbide | | | | | | | |
| | | 65-200 | | | | | | | | | | | | Carbon metalized | | | | | | | |
| Q1U3EGG | 65-160/15 | | | | | | | | | | | | | | | | | | | | |
| | 65-200 | | | | | | | | | | | | | | | | | | | | |
| Q1AEGG | 65-160/15 | | | | | | | | | | | | | | | | | | | | |
| | 65-200 | | | | | | | | | | | | | | | | | | | | |
| | 32-125/160/200 | | | | | | | | | | | | | | | | | | | | |
| | 40-125/160/200 | | | | | | | | | | | | | | | | | | | | |
| | 50-125/160/200 | | | | | | | | | | | | | | | | | | | | |
| 65-125 | | | | | | | | | | | | | | | | | | | | | |
| 65-160/7.5-9.2-11 | | | | | | | | | | | | | | | | | | | | | |

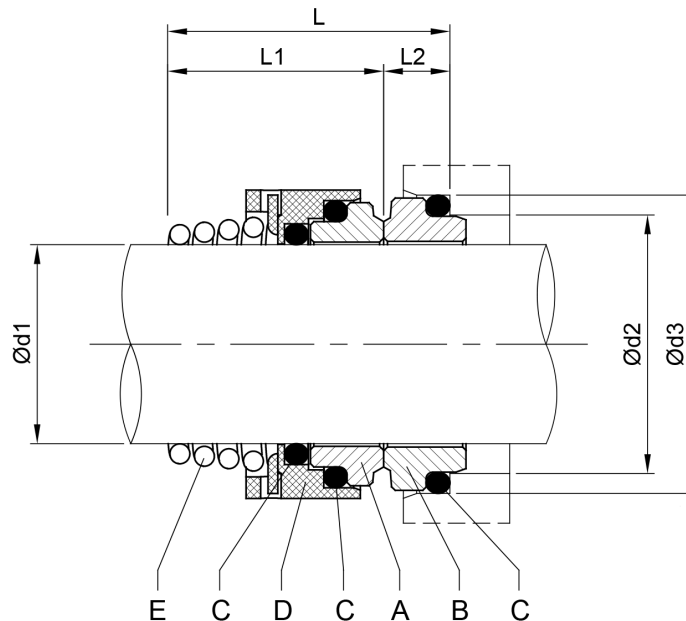
MECHANICAL SEAL



OPTIONAL

| Version | Pump type | Material | | | | |
|---------|---|-----------------------|---------------------------|-------------|--------------|-------------------------|
| | | A Rotary seal ring | B Stationary seal ring | C O-ring | D Bellows | E Frame + Spring |
| HS | 32-125/160/200 40-125/160/200 50-125/160/200 65-125 65-160/7.5-9.2-11 | SiC | SiC | FPM | FPM | EN 1.4401 (AISI 316) |
| HW | 32-125/160/200 40-125/160/200 50-125/160/200 65-125 65-160/7.5-9.2-11 | Tungsten Carbide | Tungsten Carbide | FPM | FPM | EN 1.4401 (AISI 316) |

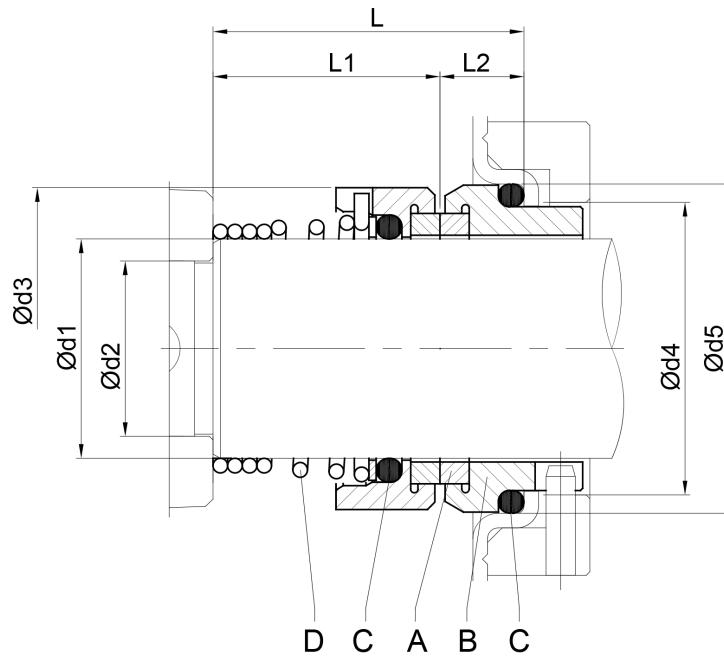
MECHANICAL SEAL



| Version | Pump type | Dimensions [mm] | | | | | | Material | | | | |
|----------|--|-------------------|----|----|------|------|------|--------------------------|------------------------------|-------------|--------------|-------------------------|
| | | d1 | d2 | d3 | L | L1 | L2 | A Rotary seal ring | B Stationary seal ring | C O-ring | D Bellows | E Frame + Spring |
| OPTIONAL | HS 65-160/15 65-200 | 30 | 39 | 45 | 42.5 | 31 | 11.5 | SiC | SiC | FPM | FPM | EN 1.4401 (AISI 316) |
| | HW 65-160/15 65-200 | 30 | 39 | 45 | 42.5 | 32.5 | 10 | Tungsten Carbide | Tungsten Carbide | | | |
| | HSW 32-125/160/200 40-125/160/200 50-125/160/200 65-125 65-160/7.5-9.2-11 | 22 | 31 | 37 | 37.5 | 27.5 | 10 | SiC | | | | |

| Version | Pump type | Dimensions [mm] | | | | | | Material | | | | |
|---------|--|-------------------|----|----|------|------|------|--------------------------|------------------------------|-------------|--------------|-------------------------|
| | | d1 | d2 | d3 | L | L1 | L2 | A Rotary seal ring | B Stationary seal ring | C O-ring | D Bellows | E Frame + Spring |
| SPECIAL | U3U3EGG 32-125/160/200 40-125/160/200 50-125/160/200 65-125 65-160/7.5-9.2-11 | 22 | 39 | 45 | 42.5 | 31 | 11.5 | Tungsten Carbide | Tungsten Carbide | EPDM | EPDM | EN 1.4401 (AISI 316) |
| | U3CEGG 32-125/160/200 40-125/160/200 50-125/160/200 65-125 65-160/7.5-9.2-11 | 22 | 31 | 37 | 37.5 | 27.5 | 10 | | Carbon | | | |
| | Q1U3EGG 32-125/160/200 40-125/160/200 50-125/160/200 65-125 65-160/7.5-9.2-11 | | | | | | | SiC | Tungsten Carbide | | | |

MECHANICAL SEAL



| Version | Pump type | Dimensions [mm] | | | | | | | | | Material | | | |
|------------------------|-------------------|-------------------|----|----|----|----|------|------|----|--------------------------|------------------------------|-------------|-------------------------|--|
| | | d1 | d2 | d3 | d4 | d5 | L | L1 | L2 | A Rotary seal ring | B Stationary seal ring | C O-ring | D Frame + Spring | |
| SPECIAL Q1Q1EGG | 32-125/160/200 | 22 | 19 | 38 | 31 | 37 | 37.5 | 27.5 | 10 | SiC | SiC | EPDM | EN 1.4401 (AISI 316) | |
| | 40-125/160/200 | | | | | | | | | | | | | |
| | 50-125/160/200 | | | | | | | | | | | | | |
| | 65-125 | | | | | | | | | | | | | |
| | 65-160/7.5-9.2-11 | | | | | | | | | | | | | |

FLUID TEMPERATURE RANGE

The fluid temperature range depends on:

- Material of the elastomers
- Type of fluid pumped
- Material of the sealing faces

for each combination of these parameters the fluid temperature range may be different.

| | | SEALING FACES MATERIAL | | | |
|-------------------------|------|------------------------|------|-----------------------------|-------------------|
| | | CERAMIC-CARBON | | ALL (except ceramic-carbon) | |
| ELASTOMER | NBR | -5 °C | 90°C | -5 °C | 90°C |
| | EPDM | -5 °C | 90°C | -5 °C | 120°C |
| | FPM | -5 °C | 75°C | -5 °C | 75°C ¹ |
| | | MIN | MAX | MIN | MAX |
| FLUID TEMPERATURE RANGE | | | | | |

¹In case of fluids not containing water, the temperature limit could be increased to 110°C

Therefore, the fluid temperature range is related to the choice of the mechanical seal and its materials.

| STANDARD mechanical seal | TEMPERATURE | |
|-----------------------------|-------------|-------|
| | MIN | MAX |
| STANDARD | -5 °C | 90 °C |

| OPTIONAL mechanical seal | TEMPERATURE | |
|-----------------------------|-------------|-------|
| | MIN | MAX |
| H | -5 °C | 75 °C |
| HS | -5 °C | 75 °C |
| HW | -5 °C | 75 °C |
| HSW | -5 °C | 75 °C |
| E | -5 °C | 90 °C |

| SPECIAL mechanical seal | TEMPERATURE | |
|----------------------------|-------------|--------|
| | MIN | MAX |
| U3U3EGG | -5 °C | 120 °C |
| U3CEGG | -5 °C | 120 °C |
| Q1Q1EGG | -5 °C | 120 °C |
| Q1U3EGG | -5 °C | 120 °C |
| Q1AEGG | -5 °C | 120 °C |

3D BEARINGS

| Pump type | Ball bearing | |
|----------------|--------------|----------|
| | Pump side | Fan side |
| 3D 32-125/1.1 | 6205 | 6203 |
| 3D 32-160/1.5 | | |
| 3D 32-160/2.2 | | |
| 3D 32-200/3.0 | 6206 | 6205 |
| 3D 32-200/4.0 | | |
| 3D 32-200/7.5 | 6306 | 6206 |
| 3D 40-125/1.5 | 6205 | 6203 |
| 3D 40-125/2.2 | | |
| 3D 40-160/3.0 | | |
| 3D 40-160/4.0 | 6206 | 6205 |
| 3D 40-200/5.5 | 6306 | 6206 |
| 3D 40-200/7.5 | | |
| 3D 40-200/11 | 6308 | 6208 |
| 3D 50-125/2.2 | 6205 | 6203 |
| 3D 50-125/3.0 | | 6205 |
| 3D 50-125/4.0 | 6206 | |
| 3D 50-160/5.5 | 6306 | 6206 |
| 3D 50-160/7.5 | | |
| 3D 50-200/9.2 | 6308 | 6208 |
| 3D 50-200/11 | | |
| 3D 50-200/15 | 6309 | 6309 |
| 3D 65-125/4.0 | 6206 | 6205 |
| 3D 65-125/5.5 | 6306 | 6206 |
| 3D 65-160/7.5 | | |
| 3D 65-160/9.2 | 6308 | 6208 |
| 3D 65-160/11 | | |
| 3D 65-160/15 | 6309 | 6309 |
| 3D 65-200/15 | | |
| 3D 65-200/18.5 | | |
| 3D 65-200/22 | | |

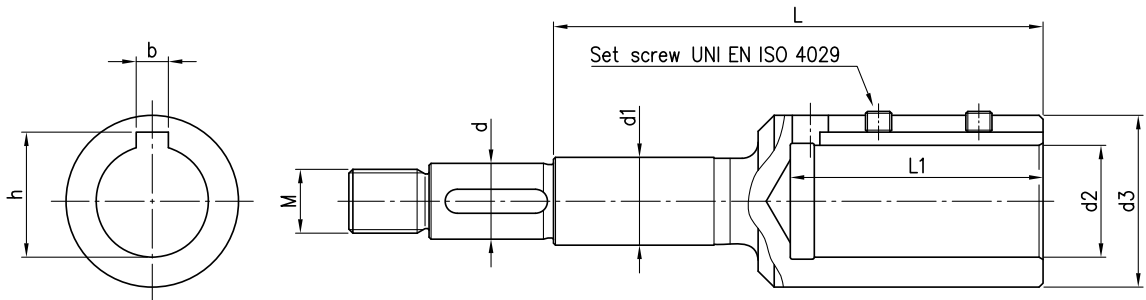
3DS-3DP BEARINGS

| Pump type | Ball bearing | |
|-------------------|--------------|----------|
| | Pump side | Fan side |
| 3DS 32-125/1.1 | 6204 | 6204 |
| 3DS 32-160/1.5 | 6205 | 6205 |
| 3DS 32-160/2.2 | | |
| 3DS 32-200/3.0 | 6206 | 6206 |
| 3DS 32-200/4.0 | 6306 | 6306 |
| 3DS 32-200/7.5 | 6208 | 6208 |
| 3DS 40-125/1.5 | 6205 | 6205 |
| 3DS 40-125/2.2 | | |
| 3DS 40-160/3.0 | 6206 | 6206 |
| 3DS 40-160/4.0 | 6306 | 6306 |
| 3DS 40-200/5.5 | 6208 | 6208 |
| 3DS 40-200/7.5 | | |
| 3DS 40-200/11 | 6309 | 6309 |
| 3DS 50-125/2.2 | 6205 | 6205 |
| 3DS 50-125/3.0 | 6206 | 6206 |
| 3DS 50-125/4.0 | 6306 | 6306 |
| 3DS 50-160/5.5 | 6208 | 6208 |
| 3DS 50-160/7.5 | | |
| 3DS 50-200/9.2 | | |
| 3DS 50-200/11 | 6309 | 6309 |
| 3DS 50-200/15 | | |
| 3DS 65-125/4.0 | 6306 | 6306 |
| 3DS 65-125/5.5 | 6208 | 6208 |
| 3DS 65-125/7.5 | | |
| 3DS 65-160/7.5 | | |
| 3DS 65-160/9.2 | 6309 | 6309 |
| 3DS 65-160/11 | | |
| 3DS 65-160/15 | | |
| 3DS 65-200/15 | | |
| 3DS 65-200/18.5 | | |
| 3DS 65-200/22 [1] | 6311 | 6311 |

| Pump type | Ball bearing | | | |
|-------------------|--------------|------------|-----------|----------|
| | Pump | | Motor | |
| | Pump side | Motor side | Pump side | Fan side |
| 3DP 32-125/1.1 | 6306 | 6206 | 6204 | 6204 |
| 3DP 32-160/1.5 | | | 6205 | 6205 |
| 3DP 32-160/2.2 | | | | |
| 3DP 32-200/3.0 | 6308 | 6306 | 6206 | 6206 |
| 3DP 32-200/4.0 | | | 6306 | 6306 |
| 3DP 32-200/7.5 | | | 6208 | 6208 |
| 3DP 40-125/1.5 | 6306 | 6206 | 6205 | 6205 |
| 3DP 40-125/2.2 | | | 6206 | 6206 |
| 3DP 40-160/3.0 | | | 6306 | 6306 |
| 3DP 40-160/4.0 | 6308 | 6306 | 6208 | 6208 |
| 3DP 40-200/5.5 | | | 6208 | 6208 |
| 3DP 40-200/7.5 | | | 6309 | 6309 |
| 3DP 40-200/11 | 6306 | 6206 | 6205 | 6205 |
| 3DP 50-125/2.2 | | | 6206 | 6206 |
| 3DP 50-125/3.0 | | | 6306 | 6306 |
| 3DP 50-125/4.0 | 6308 | 6306 | 6208 | 6208 |
| 3DP 50-160/5.5 | | | 6309 | 6309 |
| 3DP 50-160/7.5 | | | 6208 | 6208 |
| 3DP 50-200/9.2 | 6306 | 6206 | 6206 | 6206 |
| 3DP 50-200/11 | | | 6306 | 6306 |
| 3DP 50-200/15 | | | 6208 | 6208 |
| 3DP 65-125/4.0 | 6306 | 6206 | 6306 | 6306 |
| 3DP 65-125/5.5 | | | 6208 | 6208 |
| 3DP 65-125/7.5 | | | 6308 | 6306 |
| 3DP 65-160/7.5 | 6309 | 6309 | | |
| 3DP 65-160/9.2 | 6311 | 6311 | | |
| 3DP 65-160/11 | 6309 | 6309 | | |
| 3DP 65-160/15 | 6309 | 6309 | | |
| 3DP 65-200/15 | 6311 | 6311 | 6309 | 6309 |
| 3DP 65-200/18.5 | | | 6311 | 6311 |
| 3DP 65-200/22 [1] | 6311 | 6311 | | |

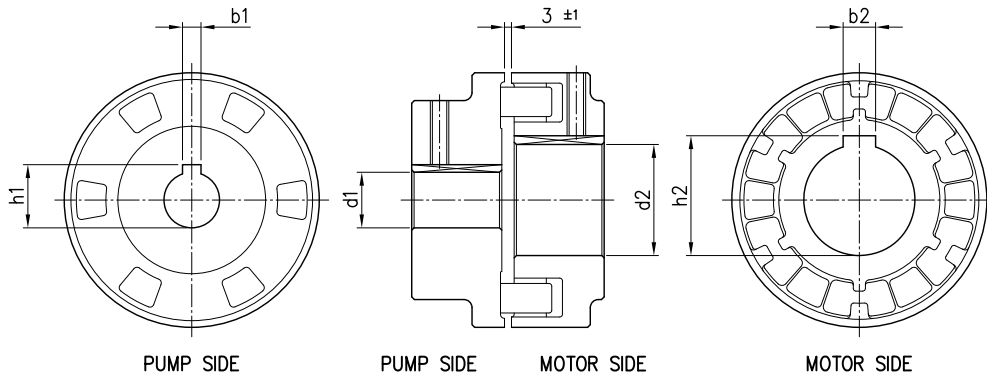
[1] Motor available with lubricator for regular re-greasing of bearing.

3DS COUPLING



| Pump type | Power | | Motor Size | Dimensions [mm] | | | | | | | | | |
|-------------|--------|--------|------------|-------------------|----|----|----|---------|-----|-----|----|------|-----------|
| | [kW] | [HP] | | d | d1 | d2 | d3 | M | L | L1 | b | h | Set screw |
| 32-125/1.1 | 1.1 | 1.5 | 80 | 19 | 22 | 19 | 33 | M16x1.5 | 98 | 43 | 6 | 21.8 | M6x6 |
| 32-160/1.5 | 1.5 | 2 | 90 | 19 | 22 | 24 | 39 | M16x1.5 | 110 | 53 | 8 | 27.3 | M8x8 |
| 32-160/2.2 | 2.2 | 3 | 90 | 19 | 22 | 24 | 39 | M16x1.5 | 110 | 53 | 8 | 27.3 | M8x8 |
| 32-200/3.0 | 3 | 4 | 100 | 19 | 22 | 28 | 43 | M16x1.5 | 122 | 63 | 8 | 31.3 | M8x8 |
| 32-200/4.0 | 4 | 5.5 | 112 | 19 | 22 | 28 | 43 | M16x1.5 | 122 | 63 | 8 | 31.3 | M8x8 |
| 32-200/7.5 | 7.5 | 10 | 132 | 19 | 22 | 38 | 58 | M16x1.5 | 145 | 84 | 10 | 41.3 | M8x8 |
| 40-125/1.5 | 1.5 | 2 | 90 | 19 | 22 | 24 | 39 | M16x1.5 | 110 | 53 | 8 | 27.3 | M8x8 |
| 40-125/2.2 | 2.2 | 3 | 90 | 19 | 22 | 24 | 39 | M16x1.5 | 110 | 53 | 8 | 27.3 | M8x8 |
| 40-160/3.0 | 3 | 4 | 100 | 19 | 22 | 28 | 43 | M16x1.5 | 122 | 63 | 8 | 31.3 | M8x8 |
| 40-160/4.0 | 4 | 5.5 | 112 | 19 | 22 | 28 | 43 | M16x1.5 | 122 | 63 | 8 | 31.3 | M8x8 |
| 40-200/5.5 | 5.5 | 7.5 | 132 | 19 | 22 | 38 | 58 | M16x1.5 | 145 | 84 | 10 | 41.3 | M8x8 |
| 40-200/7.5 | 7.5 | 10 | 132 | 19 | 22 | 38 | 58 | M16x1.5 | 145 | 84 | 10 | 41.3 | M8x8 |
| 40-200/11 | 11 | 15 | 160 | 19 | 22 | 42 | 63 | M16x1.5 | 178 | 114 | 12 | 45.3 | M8x8 |
| 50-125/2.2 | 2.2 | 3 | 90 | 19 | 22 | 24 | 39 | M16x1.5 | 110 | 53 | 8 | 27.3 | M8x8 |
| 50-125/3.0 | 3 | 4 | 100 | 19 | 22 | 28 | 43 | M16x1.5 | 122 | 63 | 8 | 31.3 | M8x8 |
| 50-125/4.0 | 4 | 5.5 | 112 | 19 | 22 | 28 | 43 | M16x1.5 | 122 | 63 | 8 | 31.3 | M8x8 |
| 50-160/5.5 | 5.5 | 7.5 | 132 | 19 | 22 | 38 | 58 | M16x1.5 | 145 | 84 | 10 | 41.3 | M8x8 |
| 50-160/7.5 | 7.5 | 10 | 132 | 19 | 22 | 38 | 58 | M16x1.5 | 145 | 84 | 10 | 41.3 | M8x8 |
| 50-200/9.2 | 9.2 | 12.5 | 132 | 19 | 22 | 38 | 58 | M16x1.5 | 145 | 84 | 10 | 41.3 | M8x8 |
| 50-200/11 | 11 | 15 | 160 | 19 | 22 | 42 | 63 | M16x1.5 | 178 | 114 | 12 | 45.3 | M8x8 |
| 50-200/15 | 15 | 20 | 160 | 22 | 22 | 42 | 63 | M18x1.5 | 209 | 114 | 12 | 45.3 | M8x8 |
| 65-125/4.0 | 4 | 5.5 | 112 | 19 | 22 | 28 | 43 | M16x1.5 | 122 | 63 | 8 | 31.3 | M8x8 |
| 65-125/5.5 | 5.5 | 7.5 | 132 | 19 | 22 | 38 | 58 | M16x1.5 | 145 | 84 | 10 | 41.3 | M8x8 |
| 65-125/7.5 | 7.5 | 10 | 132 | 19 | 22 | 38 | 58 | M16x1.5 | 145 | 84 | 10 | 41.3 | M8x8 |
| 65-160/7.5 | 7.5 | 10 | 132 | 19 | 22 | 38 | 58 | M16x1.5 | 145 | 84 | 10 | 41.3 | M8x8 |
| 65-160/9.2 | 9.2 | 12.5 | 132 | 19 | 22 | 38 | 58 | M16x1.5 | 145 | 84 | 10 | 41.3 | M8x8 |
| 65-160/11 | 11 | 15 | 160 | 19 | 22 | 42 | 63 | M16x1.5 | 178 | 114 | 12 | 45.3 | M8x8 |
| 65-160/15 | 15 | 20 | 160 | 24 | 30 | 42 | 63 | M20x1.5 | 184 | 114 | 12 | 45.3 | M8x8 |
| 65-200/15 | 15 | 20 | 160 | 24 | 30 | 42 | 63 | M20x1.5 | 184 | 114 | 12 | 45.3 | M8x8 |
| 65-200/18.5 | 18.5 | 25 | 160 | 24 | 30 | 42 | 63 | M20x1.5 | 184 | 114 | 12 | 45.3 | M8x8 |
| 65-200/22 | 22 | 30 | 180 | 24 | 30 | 48 | 72 | M20x1.5 | 184 | 114 | 14 | 51.8 | M10x10 |

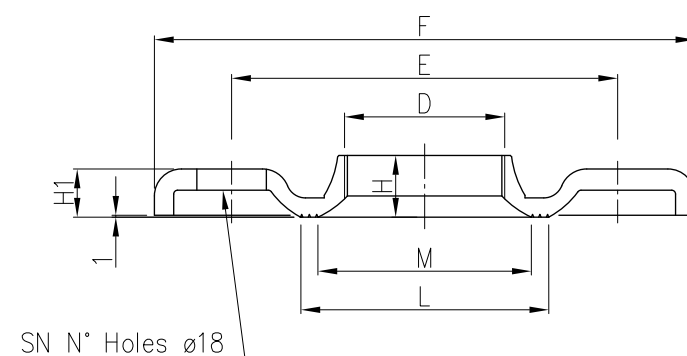
3DP FLEXIBLE COUPLING



| Pump type | Power | | Motor Size | Dimensions [mm] | | | | | |
|-------------|--------|--------|------------|-------------------|----|------|----|----|------|
| | [KW] | [HP] | | d1 | b1 | h1 | d2 | b2 | h2 |
| 32-125/1.1 | 1.1 | 1.5 | 80 | 24 | 8 | 27.3 | 19 | 6 | 21.8 |
| 32-160/1.5 | 1.5 | 2 | 90 | 24 | 8 | 27.3 | 24 | 8 | 27.3 |
| 32-160/2.2 | 2.2 | 3 | 90 | 24 | 8 | 27.3 | 24 | 8 | 27.3 |
| 32-200/3.0 | 3 | 4 | 100 | 24 | 8 | 27.3 | 28 | 8 | 31.3 |
| 32-200/4.0 | 4 | 5.5 | 112 | 24 | 8 | 27.3 | 28 | 8 | 31.3 |
| 32-200/7.5 | 7.5 | 10 | 132 | 24 | 8 | 27.3 | 38 | 10 | 41.3 |
| 40-125/1.5 | 1.5 | 2 | 90 | 24 | 8 | 27.3 | 24 | 8 | 27.3 |
| 40-125/2.2 | 2.2 | 3 | 90 | 24 | 8 | 27.3 | 24 | 8 | 27.3 |
| 40-160/3.0 | 3 | 4 | 100 | 24 | 8 | 27.3 | 28 | 8 | 31.3 |
| 40-160/4.0 | 4 | 5.5 | 112 | 24 | 8 | 27.3 | 28 | 8 | 31.3 |
| 40-200/5.5 | 5.5 | 7.5 | 132 | 24 | 8 | 27.3 | 38 | 10 | 41.3 |
| 40-200/7.5 | 7.5 | 10 | 132 | 24 | 8 | 27.3 | 38 | 10 | 41.3 |
| 40-200/11 | 11 | 15 | 160 | 24 | 8 | 27.3 | 42 | 12 | 45.3 |
| 50-125/2.2 | 2.2 | 3 | 90 | 24 | 8 | 27.3 | 24 | 8 | 27.3 |
| 50-125/3.0 | 3 | 4 | 100 | 24 | 8 | 27.3 | 28 | 8 | 31.3 |
| 50-125/4.0 | 4 | 5.5 | 112 | 24 | 8 | 27.3 | 28 | 8 | 31.3 |
| 50-160/5.5 | 5.5 | 7.5 | 132 | 24 | 8 | 27.3 | 38 | 10 | 41.3 |
| 50-160/7.5 | 7.5 | 10 | 132 | 24 | 8 | 27.3 | 38 | 10 | 41.3 |
| 50-200/9.2 | 9.2 | 12.5 | 132 | 24 | 8 | 27.3 | 38 | 10 | 41.3 |
| 50-200/11 | 11 | 15 | 160 | 24 | 8 | 27.3 | 42 | 12 | 45.3 |
| 50-200/15 | 15 | 20 | 160 | 24 | 8 | 27.3 | 42 | 12 | 45.3 |
| 65-125/4.0 | 4 | 5.5 | 112 | 24 | 8 | 27.3 | 28 | 8 | 31.3 |
| 65-125/5.5 | 5.5 | 7.5 | 132 | 24 | 8 | 27.3 | 38 | 10 | 41.3 |
| 65-160/7.5 | 7.5 | 10 | 132 | 24 | 8 | 27.3 | 38 | 10 | 41.3 |
| 65-160/9.2 | 9.2 | 12.5 | 132 | 24 | 8 | 27.3 | 38 | 10 | 41.3 |
| 65-160/11 | 11 | 15 | 160 | 24 | 8 | 27.3 | 42 | 12 | 45.3 |
| 65-160/15 | 15 | 20 | 160 | 24 | 8 | 27.3 | 42 | 12 | 45.3 |
| 65-200/15 | 15 | 20 | 160 | 24 | 8 | 27.3 | 42 | 12 | 45.3 |
| 65-200/18.5 | 18.5 | 25 | 160 | 24 | 8 | 27.3 | 42 | 12 | 45.3 |

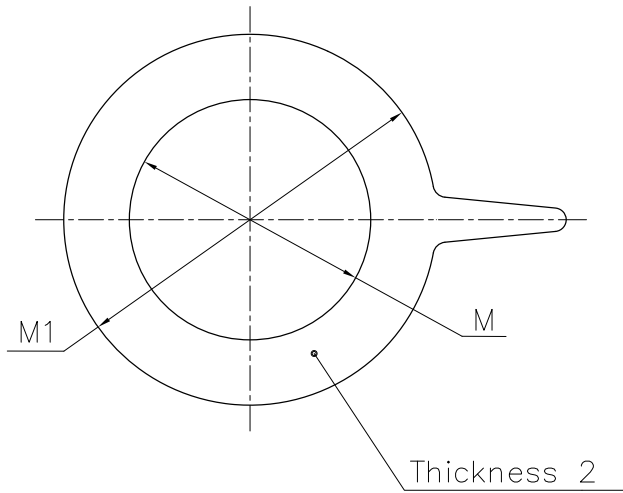
FITTINGS

COUNTERFLANGES GALVANIZED STEEL



| DN | D | PN | Dimensions | | | | | | | Screws | |
|----|-------|----|------------|-----|------|------|-----------|-----|----|-----------|---|
| | | | E | F | H | H1 | L | M | SN | DIMENSION | MATERIAL |
| 32 | G 1 ¼ | 10 | 10 0 | 140 | 15 | 11.5 | 67 | 50 | 4 | M16x55 | Gv. Steel 8.8 Strenght class ISO 898-1 |
| 40 | G 1 ½ | | 11 0 | 150 | 17.5 | 11.5 | 72 | 58 | 4 | | |
| 50 | G 2 | | 12 5 | 165 | 19 | 15 | 89 | 70 | 4 | | |
| 65 | G 2 ½ | | 14 5 | 185 | 23 | 14 | 104 | 88 | 4 | | |
| 80 | G 3 | | 16 0 | 200 | 24 | 14.5 | 117. 5 | 100 | 4 | | |
| 80 | G 3 | 16 | 16 0 | 200 | 24 | 16 | 120 | 98 | 8 | | |

GASKETS

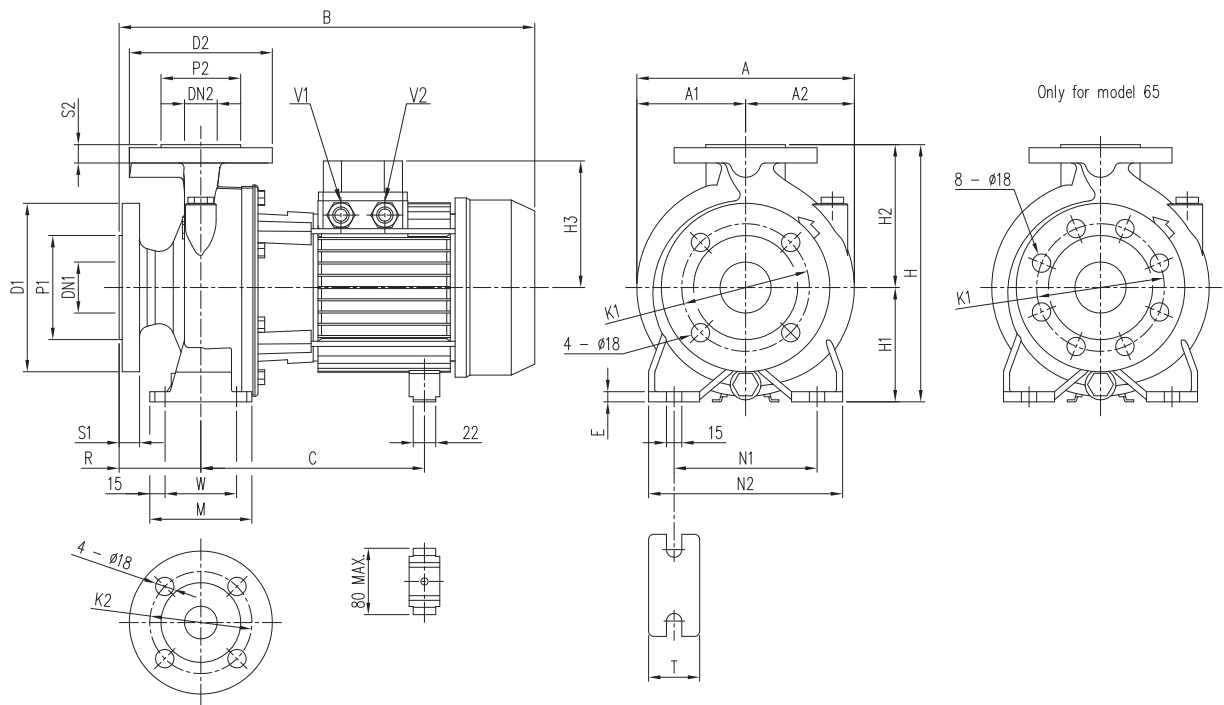


| DN | M | M1 |
|----|----|-----|
| 32 | 38 | 82 |
| 40 | 50 | 93 |
| 50 | 60 | 107 |
| 65 | 80 | 125 |
| 80 | 90 | 140 |

Material: EPDM for standard version
FPM for hot water version

PUMP 3D

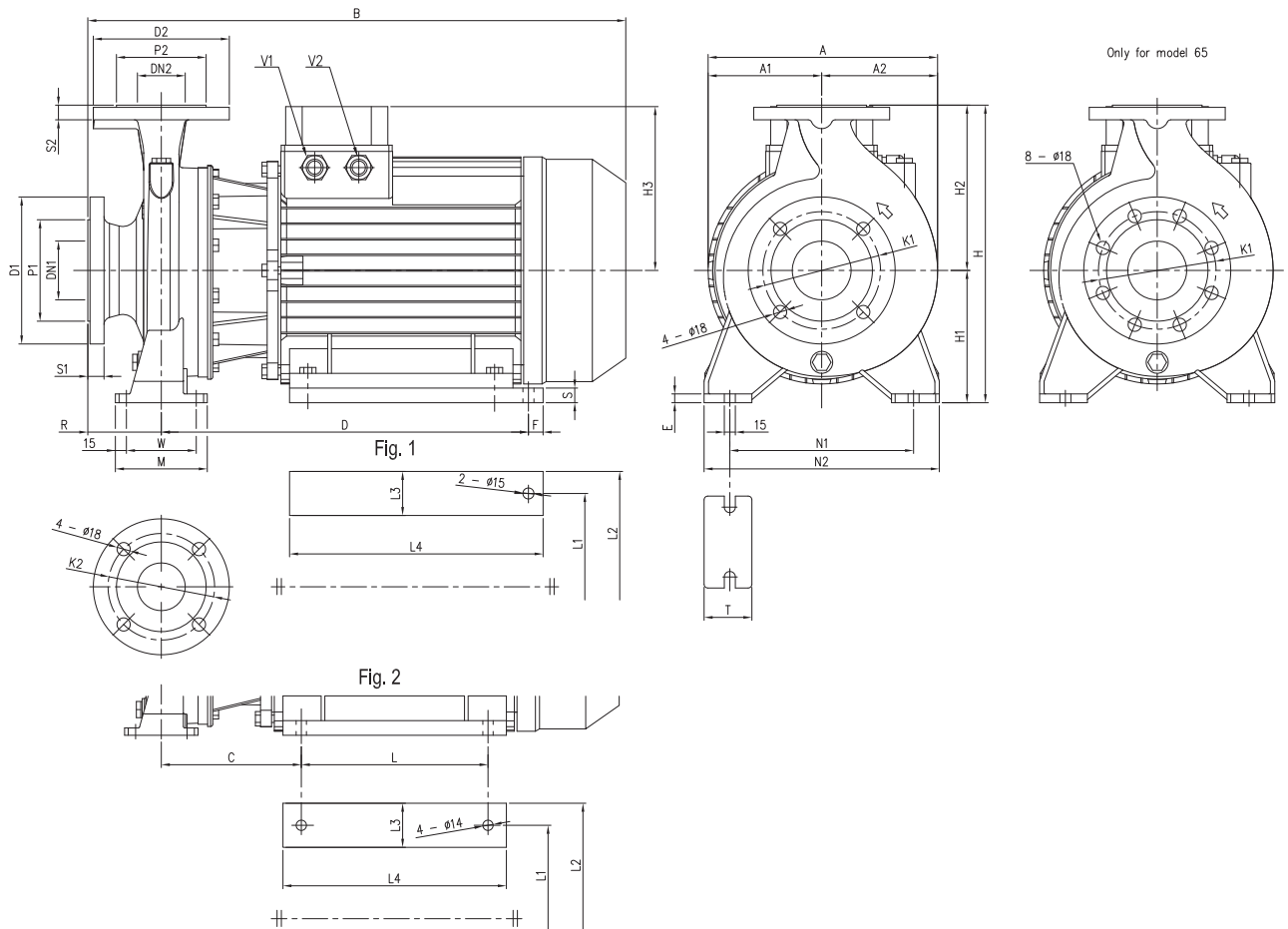
UP TO 11 kW



| Model | Dimensions [mm] | | | | | | | | | | | | | | | | | | | | | | | | | | | | Weight [kgf] | | | | | | |
|----------------|-------------------|------|------|------|------|-------|------|------|------|------|-----|-----|-----|--------------|-----|-----|----|-----|-----|-----|----|----|-----|-------|-------------|-------------|-------------|--------------|----------------|-----------|---------|---------|---------|------|------|
| | ø DN1 | ø P1 | ø K1 | ø D1 | ø S1 | ø DN2 | ø P2 | ø K2 | ø D2 | ø S2 | H | H1 | H2 | H3 [1-] [3-] | R | W | M | N1 | N2 | T | E | A | A1 | A2 | B [1-] [3-] | C [1-] [3-] | V1 [3-] (*) | V2 [1-] [3-] | [1-] [3-] | [1-] [3-] | | | | | |
| 32-125/1.1 (M) | 50 | 102 | 125 | 165 | 20 | 32 | 78 | 100 | 140 | 18 | 252 | 112 | 140 | 141 | 119 | 80 | 70 | 100 | 140 | 190 | 50 | 10 | 213 | 106.5 | 106.5 | 433 | 431 | 219+230 | 232 | - | - | M20x1.5 | M16x1.5 | 31 | 29.5 |
| 32-160/1.5 (M) | 50 | 102 | 125 | 165 | 20 | 32 | 78 | 100 | 140 | 18 | 292 | 132 | 160 | 141 | 119 | 80 | 70 | 100 | 190 | 240 | 50 | 10 | 254 | 127 | 127 | 433 | 431 | 219+230 | 232 | - | - | M20x1.5 | M20x1.5 | 34 | 33.5 |
| 32-160/2.2 (M) | 50 | 102 | 125 | 165 | 20 | 32 | 78 | 100 | 140 | 18 | 292 | 132 | 160 | 141 | 119 | 80 | 70 | 100 | 190 | 240 | 50 | 10 | 254 | 127 | 127 | 466 | 431 | 219+230 | 232 | - | - | M20x1.5 | M20x1.5 | 37 | 36 |
| 32-200/3.0 | 50 | 102 | 125 | 165 | 20 | 32 | 78 | 100 | 140 | 18 | 340 | 160 | 180 | - | 124 | 80 | 70 | 100 | 190 | 240 | 50 | 10 | 296 | 148 | 148 | - | 471 | - | 244+255 | - | - | - | M20x1.5 | - | 47.5 |
| 32-200/4.0 | 50 | 102 | 125 | 165 | 20 | 32 | 78 | 100 | 140 | 18 | 340 | 160 | 180 | - | 141 | 80 | 70 | 100 | 190 | 240 | 50 | 10 | 296 | 148 | 148 | - | 494 | - | 253 | - | - | - | M20x1.5 | - | 50 |
| 32-200/7.5 | 50 | 102 | 125 | 165 | 20 | 32 | 78 | 100 | 140 | 18 | 340 | 160 | 180 | - | 150 | 80 | 70 | 100 | 190 | 240 | 50 | 10 | 296 | 148 | 148 | - | 539 | - | 275 | - | PG 13.5 | - | PG 16 | - | 65.1 |
| 40-125/1.5 (M) | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 18 | 252 | 112 | 140 | 141 | 119 | 80 | 70 | 100 | 160 | 210 | 50 | 10 | 220 | 108 | 112 | 433 | 431 | 219+230 | 232 | - | - | M20x1.5 | M20x1.5 | 32 | 30 |
| 40-125/2.2 (M) | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 18 | 252 | 112 | 140 | 141 | 119 | 80 | 70 | 100 | 160 | 210 | 50 | 10 | 220 | 108 | 112 | 466 | 431 | 219+230 | 232 | - | - | M20x1.5 | M20x1.5 | 37 | 32 |
| 40-160/3.0 | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 18 | 292 | 132 | 160 | - | 124 | 80 | 70 | 100 | 190 | 240 | 50 | 10 | 254 | 127 | 127 | - | 471 | - | 244+255 | - | - | - | M20x1.5 | - | 39 |
| 40-160/4.0 | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 18 | 292 | 132 | 160 | - | 141 | 80 | 70 | 100 | 190 | 240 | 50 | 10 | 254 | 127 | 127 | - | 494 | - | 253 | - | - | - | M20x1.5 | - | 48 |
| 40-200/5.5 | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 18 | 340 | 160 | 180 | - | 150 | 100 | 70 | 100 | 212 | 265 | 50 | 10 | 296 | 148 | 148 | - | 539 | - | 275 | - | PG 13.5 | M20x1.5 | - | - | 60 |
| 40-200/7.5 | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 18 | 340 | 160 | 180 | - | 150 | 100 | 70 | 100 | 212 | 265 | 50 | 10 | 296 | 148 | 148 | - | 559 | - | 275 | - | PG 13.5 | - | PG 16 | - | 66.1 |
| 40-200/11 | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 18 | 340 | 160 | 180 | - | 178 | 100 | 70 | 100 | 212 | 265 | 50 | 10 | 296 | 148 | 148 | - | 595 | - | 330 | - | PG 13.5 | - | PG 21 | - | 82.4 |
| 50-125/2.2 (M) | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 292 | 132 | 160 | 141 | 119 | 100 | 70 | 100 | 190 | 240 | 50 | 10 | 254 | 127 | 127 | 466 | 451 | 219+230 | 232 | - | - | M20x1.5 | M20x1.5 | 39.5 | 37 |
| 50-125/3.0 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 292 | 132 | 160 | - | 124 | 100 | 70 | 100 | 190 | 240 | 50 | 10 | 254 | 127 | 127 | - | 491 | - | 244+255 | - | - | - | M20x1.5 | - | 39.5 |
| 50-125/4.0 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 292 | 132 | 160 | - | 141 | 100 | 70 | 100 | 190 | 240 | 50 | 10 | 254 | 127 | 127 | - | 514 | - | 253 | - | - | - | M20x1.5 | - | 48 |
| 50-160/5.5 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 340 | 160 | 180 | - | 150 | 100 | 70 | 100 | 212 | 265 | 50 | 10 | 296 | 148 | 148 | - | 539 | - | 275 | - | PG 13.5 | M20x1.5 | - | - | 60 |
| 50-160/7.5 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 340 | 160 | 180 | - | 150 | 100 | 70 | 100 | 212 | 265 | 50 | 10 | 296 | 148 | 148 | - | 559 | - | 275 | - | PG 13.5 | - | PG 16 | - | 67.1 |
| 50-200/9.2 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 360 | 160 | 200 | - | 178 | 100 | 70 | 100 | 212 | 265 | 50 | 10 | 296 | 148 | 148 | - | 595 | - | 330 | - | PG 13.5 | - | PG 21 | - | 77 |
| 50-200/11 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 360 | 160 | 200 | - | 178 | 100 | 70 | 100 | 212 | 265 | 50 | 10 | 296 | 148 | 148 | - | 595 | - | 330 | - | PG 13.5 | - | PG 21 | - | 82.4 |
| 65-125/4.0 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 340 | 160 | 180 | - | 141 | 100 | 95 | 125 | 212 | 280 | 65 | 12 | 263 | 127 | 136 | - | 514 | - | 253 | - | - | - | M20x1.5 | - | 53 |
| 65-125/5.5 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 340 | 160 | 180 | - | 150 | 100 | 95 | 125 | 212 | 280 | 65 | 12 | 263 | 127 | 136 | - | 539 | - | 275 | - | PG 13.5 | M20x1.5 | - | - | 65 |
| 65-125/7.5 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 340 | 160 | 180 | - | 150 | 100 | 95 | 125 | 212 | 280 | 65 | 12 | 263 | 127 | 136 | - | 559 | - | 275 | - | PG 13.5 | - | PG 16 | - | 72.6 |
| 65-160/7.5 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 360 | 160 | 200 | - | 150 | 100 | 95 | 125 | 212 | 280 | 65 | 12 | 296 | 148 | 148 | - | 559 | - | 275 | - | PG 13.5 | - | PG 16 | - | 73.1 |
| 65-160/9.2 | 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 | - | 360 | - | PG 13.5 | - | PG 21 | - | 85 |
| 65-160/11 | 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 | - | 360 | - | PG 13.5 | - | PG 21 | - | 87.4 |

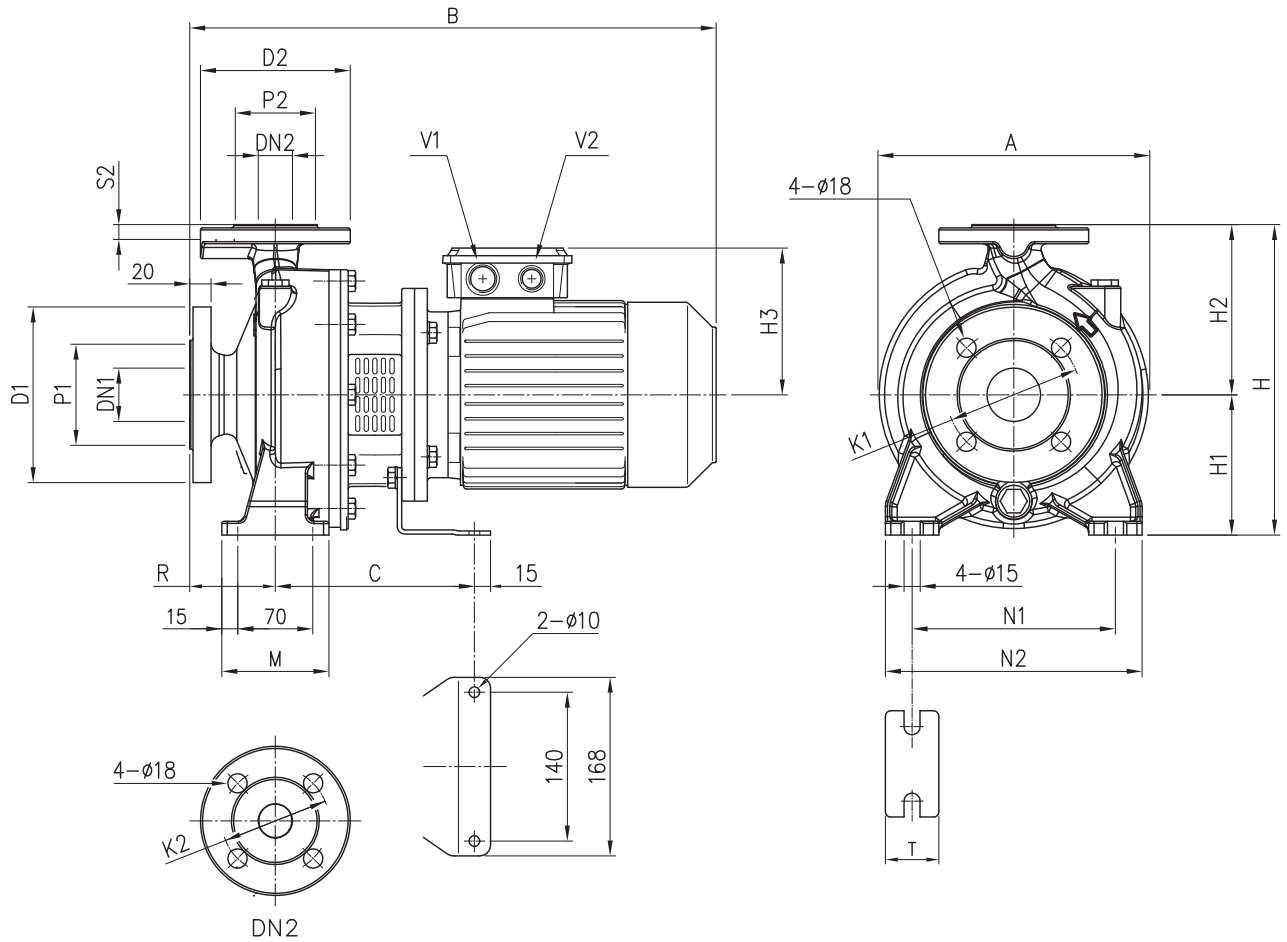
PUMP 3D

15 kW AND ABOVE



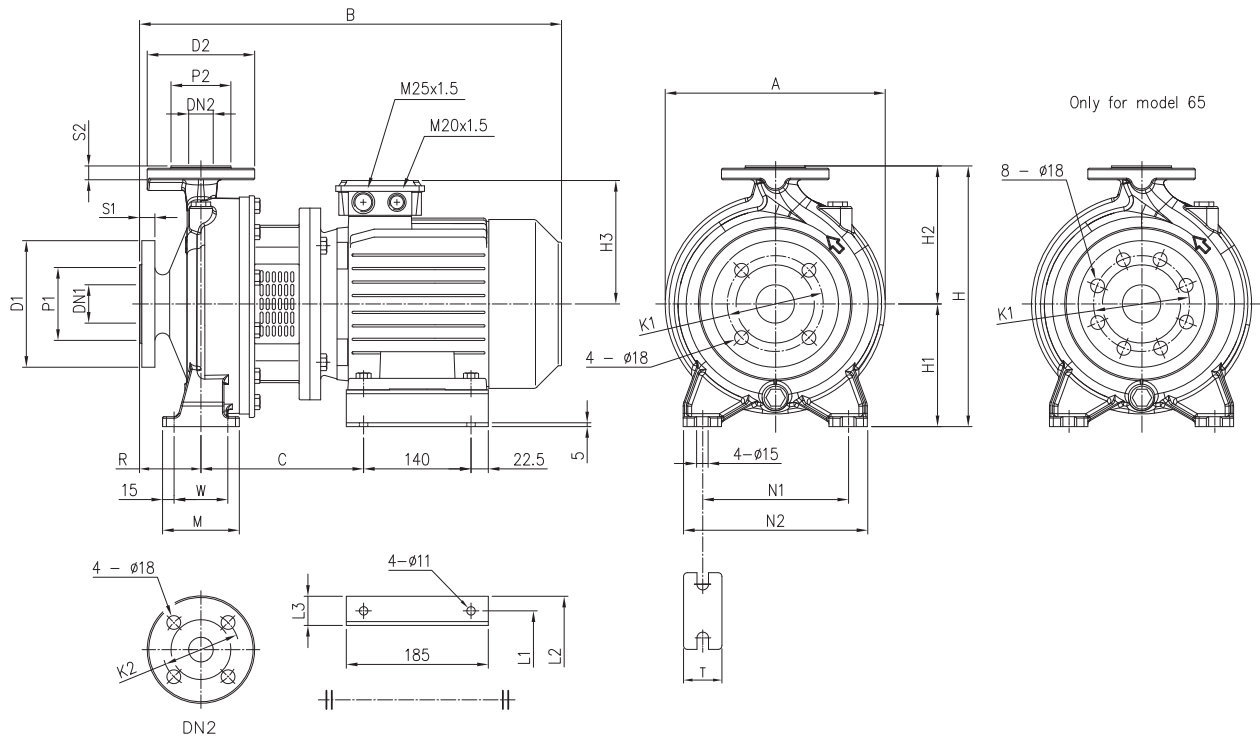
| Model | Dimensions [mm] | | | | | | | | | | | | | | | | | | | | | | | | | | Weight [kgf] | | | | | | | | | | | |
|-------------|-------------------|------|------|------|----|-------|------|------|------|----|-----|-----|-----|-----|------|-----|----|-----|-----|-----|----|----|-----|-------|-------|-----|----------------|-----|-----|-----|----|-----|-------|----|----|-------|-------|-------|
| | Ø DN1 | Ø P1 | Ø K1 | Ø D1 | S1 | Ø DN2 | Ø P2 | Ø K2 | Ø D2 | S2 | H | H1 | H2 | H3 | Fig. | R | W | M | N1 | N2 | T | E | A | A1 | A2 | B | | C | L | L1 | L2 | L3 | L4 | D | F | S | V1 | V2 |
| 50-200/15 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 360 | 160 | 200 | 223 | 2 | 100 | 70 | 100 | 212 | 265 | 50 | 10 | 296 | 154,5 | 141,5 | 723 | 190,5 | 254 | 254 | 318 | 64 | 304 | - | - | - | PG 21 | PG 21 | 124,1 |
| 65-160/15 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 360 | 160 | 200 | 223 | 2 | 100 | 95 | 125 | 212 | 280 | 65 | 12 | 296 | 154,5 | 141,5 | 732 | 199,5 | 254 | 254 | 318 | 64 | 304 | - | - | - | PG 21 | PG 21 | 129,1 |
| 65-200/15 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 405 | 180 | 225 | 223 | 1 | 100 | 95 | 125 | 250 | 320 | 65 | 12 | 312 | 154,5 | 157,5 | 732 | - | - | 254 | 314 | 60 | 345 | 499,5 | 20 | 20 | PG 21 | PG 21 | 129,1 |
| 65-200/18.5 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 405 | 180 | 225 | 223 | 1 | 100 | 95 | 125 | 250 | 320 | 65 | 12 | 312 | 154,5 | 157,5 | 732 | - | - | 254 | 314 | 60 | 345 | 499,5 | 20 | 20 | PG 21 | PG 21 | 146,3 |
| 65-200/22 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 405 | 180 | 225 | 223 | 1 | 100 | 95 | 125 | 250 | 320 | 65 | 12 | 312 | 154,5 | 157,5 | 732 | - | - | 254 | 314 | 60 | 345 | 499,5 | 20 | 20 | PG 21 | PG 21 | 158,1 |

PUMP 3DS 32, 40, 50



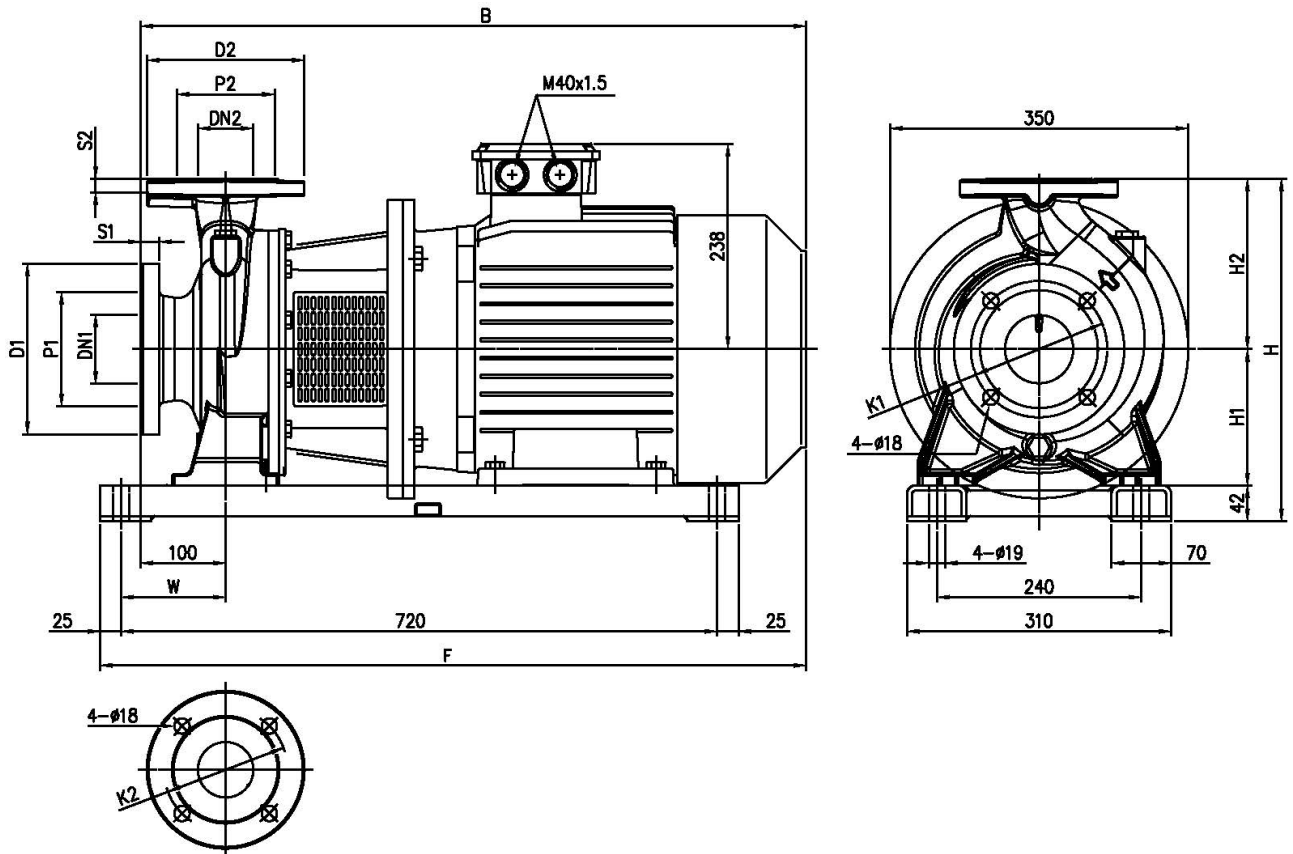
| Model | Dimensions [mm] | | | | | | | | | | | | | | | | | | | | V1 | V2 | Weight Kgf | |
|------------|-------------------|------|------|------|-------|------|------|------|----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|---------|---------------|------|
| | ∅ DN1 | ∅ P1 | ∅ K1 | ∅ D1 | ∅ DN2 | ∅ P2 | ∅ K2 | ∅ D2 | S2 | H | H1 | H2 | H3 | R | M | N1 | N2 | T | A | B | | | | C |
| 32-125/1.1 | 50 | 102 | 125 | 165 | 32 | 78 | 100 | 140 | 18 | 252 | 112 | 140 | 139 | 80 | 100 | 140 | 190 | 50 | 213 | 430 | 174 | M25x1.5 | M20x1.5 | 32.1 |
| 32-160/1.5 | 50 | 102 | 125 | 165 | 32 | 75 | 100 | 140 | 18 | 292 | 132 | 160 | 148 | 80 | 100 | 190 | 240 | 50 | 254 | 477 | 186 | M25x1.5 | M20x1.5 | 36.3 |
| 32-160/2.2 | 50 | 102 | 125 | 165 | 32 | 75 | 100 | 140 | 18 | 292 | 132 | 160 | 148 | 80 | 100 | 190 | 240 | 50 | 254 | 477 | 186 | M25x1.5 | M20x1.5 | 40.4 |
| 40-125/1.5 | 65 | 115 | 145 | 185 | 40 | 80 | 110 | 150 | 14 | 252 | 112 | 140 | 148 | 80 | 114 | 160 | 210 | 50 | 213 | 477 | 186 | M25x1.5 | M20x1.5 | 31.9 |
| 40-125/2.2 | 65 | 115 | 145 | 185 | 40 | 80 | 110 | 150 | 14 | 252 | 112 | 140 | 148 | 80 | 114 | 160 | 210 | 50 | 213 | 477 | 186 | M25x1.5 | M20x1.5 | 35.5 |
| 50-125/2.2 | 65 | 115 | 145 | 185 | 50 | 95 | 125 | 165 | 16 | 292 | 132 | 160 | 148 | 100 | 114 | 190 | 240 | 50 | 254 | 497 | 186 | M25x1.5 | M20x1.5 | 37.9 |

PUMP 3DS 32, 65



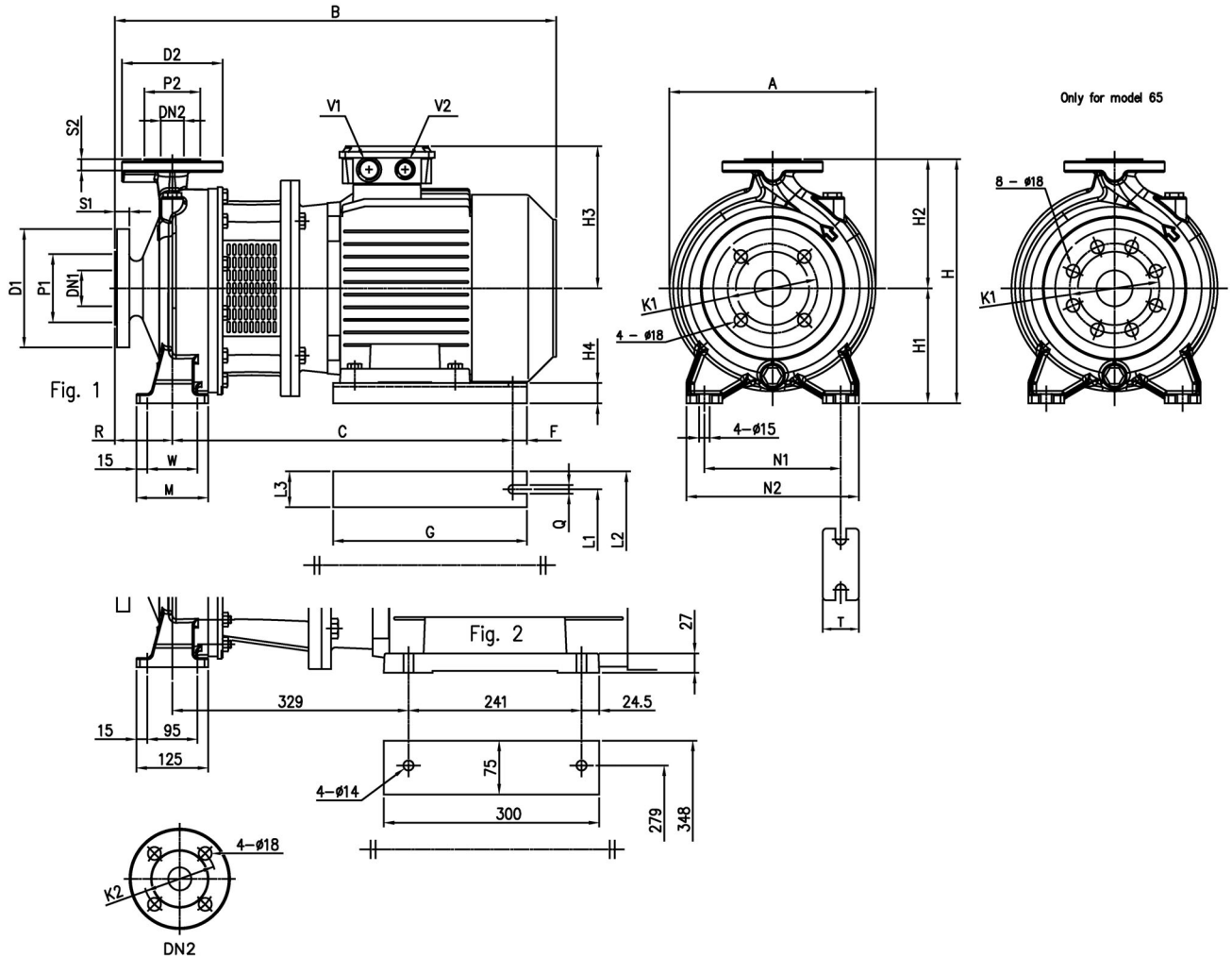
| Model | Dimensions [mm] | | | | | | | | | | | | | | | | | | | | | | | Weight Kgf | | | |
|------------|-------------------|------|------|------|----|-------|------|------|------|----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|---------------|-----|----|------|
| | ∅ DN1 | ∅ P1 | ∅ K1 | ∅ D1 | S1 | ∅ DN2 | ∅ P2 | ∅ K2 | ∅ D2 | S2 | H | H1 | H2 | H3 | R | W | M | N1 | N2 | T | A | B | C | | L1 | L2 | L3 |
| 32-200/3.0 | 50 | 102 | 125 | 165 | 20 | 32 | 78 | 100 | 140 | 18 | 340 | 160 | 180 | 155 | 80 | 70 | 100 | 190 | 240 | 50 | 296 | 528 | 205 | 160 | 202 | 42 | 59,3 |
| 32-200/4.0 | 50 | 102 | 125 | 165 | 20 | 32 | 78 | 100 | 140 | 18 | 340 | 160 | 180 | 171 | 80 | 70 | 100 | 190 | 240 | 50 | 296 | 550 | 212 | 190 | 228 | 38 | 60,8 |
| 65-125/4.0 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 340 | 160 | 180 | 171 | 100 | 95 | 125 | 212 | 280 | 65 | 263 | 570 | 212 | 190 | 228 | 38 | 65,4 |

PUMP 3DS 40, 50, 65



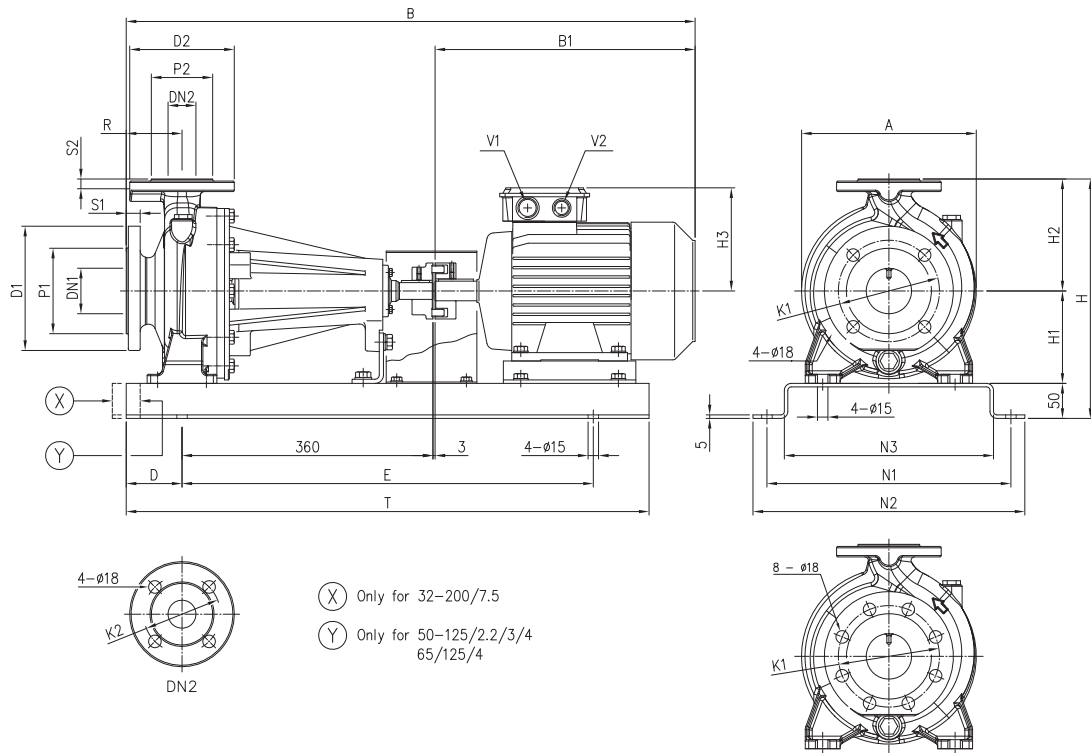
| Model | Dimensions [mm] | | | | | | | | | | | | | | | | Weight [kgf] |
|-----------|-------------------|------|------|------|----|-------|------|------|------|----|-----|-----|-----|-----|-----|-----|----------------|
| | Ø DN1 | Ø P1 | Ø K1 | Ø D1 | S1 | Ø DN2 | Ø P2 | Ø K2 | Ø D2 | S2 | H | H1 | H2 | W | B | F | |
| 40-200/11 | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 18 | 382 | 160 | 180 | 110 | 796 | 833 | 130,8 |
| 50-200/11 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 402 | 160 | 200 | 110 | 796 | 833 | 130,8 |
| 50-200/15 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 402 | 160 | 200 | 110 | 796 | 833 | 166,9 |
| 65-160/11 | 80 | 138 | 160 | 200 | 22 | 65 | 115 | 145 | 185 | 20 | 402 | 160 | 200 | 123 | 796 | 844 | 106,8 |
| 65-160/15 | 80 | 138 | 160 | 200 | 22 | 65 | 115 | 145 | 185 | 20 | 402 | 160 | 200 | 123 | 806 | 856 | 142,9 |

PUMP 3DS 32, 40, 50, 65



| Model | 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 | H3 | H4 | R | W | M | N1 | N2 | T | A | B | C | F | | G | Q | L1 | L2 | L3 | V1 | V2 | |
| 32-200/7.5 | 50 | 102 | 125 | 165 | 20 | 32 | 78 | 100 | 140 | 18 | 1 | 340 | 160 | 180 | 184 | 28 | 80 | 70 | 100 | 190 | 240 | 50 | 300 | 630 | 479 | 15 | 270 | 12 | 216 | 266 | 50 | M32X1.5 | M32X1.5 | 92 | |
| 40-160/3.0 | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 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 | 65.6 | |
| 40-160/4.0 | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 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 | 51.8 | |
| 40-200/5.5 | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 18 | 1 | 340 | 160 | 180 | 198 | 28 | 100 | 70 | 100 | 212 | 265 | 50 | 296 | 630 | 479 | 15 | 270 | 12 | 216 | 266 | 50 | M32X1.5 | M32X1.5 | 79.7 | |
| 40-200/7.5 | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 18 | 1 | 340 | 160 | 180 | 198 | 28 | 100 | 70 | 100 | 212 | 265 | 50 | 296 | 650 | 479 | 15 | 270 | 12 | 216 | 266 | 50 | M32X1.5 | M32X1.5 | 88.8 | |
| 50-125/3.0 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 1 | 292 | 132 | 160 | 155 | 32 | 100 | 70 | 100 | 190 | 240 | 50 | 254 | 548 | 388 | 15 | 220 | 12 | 160 | 200 | 40 | M25X1.5 | M20X1.5 | 44.1 | |
| 50-125/4.0 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 1 | 292 | 132 | 160 | 171 | 20 | 100 | 70 | 100 | 190 | 240 | 50 | 254 | 570 | 395 | 15 | 220 | 12 | 190 | 240 | 50 | M25X1.5 | M20X1.5 | 52.7 | |
| 50-160/5.5 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 1 | 340 | 160 | 180 | 198 | 28 | 100 | 70 | 100 | 212 | 265 | 50 | 296 | 630 | 479 | 15 | 270 | 12 | 216 | 266 | 50 | M32X1.5 | M32X1.5 | 77.3 | |
| 50-160/7.5 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 1 | 340 | 160 | 180 | 198 | 28 | 100 | 70 | 100 | 212 | 265 | 50 | 296 | 650 | 479 | 15 | 270 | 12 | 216 | 266 | 50 | M32X1.5 | M32X1.5 | 99.5 | |
| 50-200/9.2 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 1 | 360 | 160 | 200 | 198 | 28 | 100 | 70 | 100 | 212 | 265 | 50 | 296 | 690 | 479 | 15 | 270 | 12 | 216 | 266 | 50 | M32X1.5 | M32X1.5 | 104 | |
| 65-125/5.5 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 1 | 340 | 160 | 180 | 198 | 28 | 100 | 95 | 125 | 212 | 280 | 65 | 263 | 630 | 479 | 15 | 270 | 12 | 216 | 266 | 50 | M32X1.5 | M32X1.5 | 76.3 | |
| 65-125/7.5 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 1 | 340 | 160 | 180 | 198 | 28 | 100 | 95 | 125 | 212 | 280 | 65 | 263 | 650 | 479 | 15 | 270 | 12 | 216 | 266 | 50 | M32X1.5 | M32X1.5 | 99.9 | |
| 65-160/7.5 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 1 | 360 | 160 | 200 | 198 | 28 | 100 | 95 | 125 | 212 | 280 | 65 | 296 | 650 | 479 | 15 | 270 | 12 | 216 | 266 | 50 | M32X1.5 | M32X1.5 | 99.2 | |
| 65-160/9.2 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 1 | 360 | 160 | 200 | 198 | 28 | 100 | 95 | 125 | 212 | 280 | 65 | 296 | 690 | 479 | 15 | 270 | 12 | 216 | 266 | 50 | M32X1.5 | M32X1.5 | 108 | |
| 65-200/15 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 1 | 405 | 180 | 225 | 238 | 20 | 100 | 95 | 125 | 250 | 320 | 65 | 312 | 806 | 621 | 20 | 350 | 14 | 254 | 314 | 60 | M40X1.5 | M40X1.5 | 156.9 | |
| 65-200/18.5 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 1 | 405 | 180 | 225 | 238 | 20 | 100 | 95 | 125 | 250 | 320 | 65 | 312 | 850 | 621 | 20 | 350 | 14 | 254 | 314 | 60 | M40X1.5 | M40X1.5 | 158.5 | |
| 65-200/22 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 2 | 405 | 180 | 225 | 268 | - | 100 | - | - | 250 | 320 | 65 | 312 | 885 | - | - | - | - | - | - | - | - | M40X1.5 | M40X1.5 | 197 |

PUMP 3DP 32, 40, 50, 65



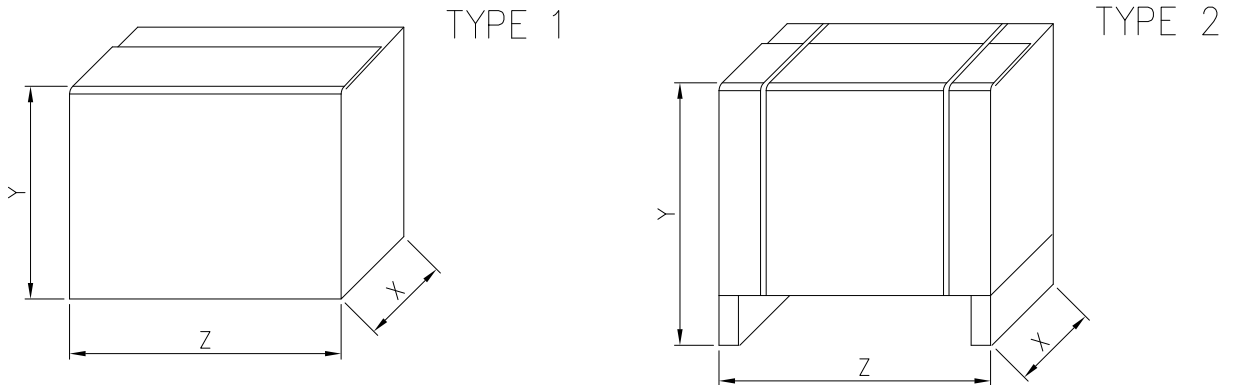
(X) Only for 32-200/7.5

(Y) Only for 50-125/2.2/3/4
65/125/4

Only for model 65

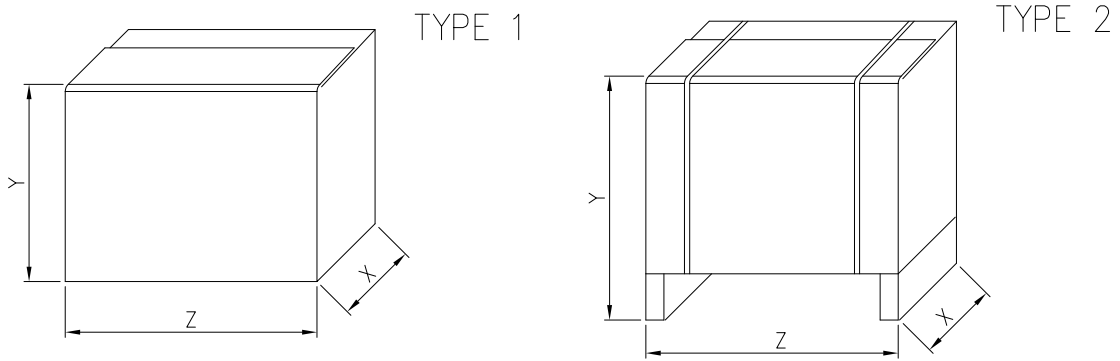
| Model | Dimensions [mm] | | | | | | | | | | | | | | | | | | | | | | | | | | Weight Kgf |
|-------------|-------------------|------|------|------|----|-------|------|------|------|----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|---------|---------|---------------|
| | Ø DN1 | Ø P1 | Ø K1 | Ø D1 | S1 | Ø DN2 | Ø P2 | Ø K2 | Ø D2 | S2 | H | H1 | H2 | H3 | R | A | B | B1 | D | E | N1 | N2 | N3 | T | V1 | V2 | |
| 32-125/1.1 | 50 | 102 | 125 | 165 | 20 | 32 | 78 | 100 | 140 | 18 | 302 | 112 | 140 | 139 | 80 | 213 | 715 | 272 | 80 | 550 | 300 | 340 | 250 | 710 | M25x1.5 | M20x1.5 | 62.1 |
| 32-160/1.5 | 50 | 102 | 125 | 165 | 20 | 32 | 78 | 100 | 140 | 18 | 342 | 132 | 160 | 148 | 80 | 254 | 760 | 317 | 80 | 590 | 350 | 390 | 300 | 750 | M25x1.5 | M20x1.5 | 58.5 |
| 32-160/2.2 | 50 | 102 | 125 | 165 | 20 | 32 | 78 | 100 | 140 | 18 | 342 | 132 | 160 | 148 | 80 | 254 | 760 | 317 | 80 | 590 | 350 | 390 | 300 | 750 | M25x1.5 | M20x1.5 | 61.5 |
| 32-200/3.0 | 50 | 102 | 125 | 165 | 20 | 32 | 78 | 100 | 140 | 18 | 390 | 160 | 180 | 155 | 80 | 296 | 809 | 366 | 80 | 590 | 350 | 390 | 300 | 750 | M25x1.5 | M20x1.5 | 83.9 |
| 32-200/4.0 | 50 | 102 | 125 | 165 | 20 | 32 | 78 | 100 | 140 | 18 | 390 | 160 | 180 | 171 | 80 | 296 | 831 | 388 | 80 | 590 | 350 | 390 | 300 | 750 | M25x1.5 | M20x1.5 | 86.9 |
| 32-200/7.5 | 50 | 102 | 125 | 165 | 20 | 32 | 78 | 100 | 140 | 18 | 390 | 160 | 180 | 198 | 80 | 296 | 908 | 442 | 100 | 650 | 350 | 390 | 300 | 850 | M32x1.5 | M32x1.5 | 117.2 |
| 40-125/1.5 | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 18 | 302 | 112 | 140 | 148 | 80 | 220 | 760 | 317 | 80 | 550 | 300 | 340 | 250 | 710 | M25x1.5 | M20x1.5 | 76.2 |
| 40-125/2.2 | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 18 | 302 | 112 | 140 | 148 | 80 | 220 | 760 | 317 | 80 | 550 | 300 | 340 | 250 | 710 | M25x1.5 | M20x1.5 | 56.9 |
| 40-160/3.0 | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 18 | 342 | 132 | 160 | 155 | 80 | 254 | 809 | 366 | 80 | 590 | 350 | 390 | 300 | 750 | M25x1.5 | M20x1.5 | 93.4 |
| 40-160/4.0 | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 18 | 342 | 132 | 160 | 171 | 80 | 254 | 831 | 388 | 80 | 590 | 350 | 390 | 300 | 750 | M25x1.5 | M20x1.5 | 74.8 |
| 40-200/5.5 | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 18 | 390 | 160 | 180 | 198 | 100 | 296 | 908 | 442 | 100 | 650 | 350 | 390 | 300 | 850 | M32x1.5 | M20x1.5 | 105 |
| 40-200/7.5 | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 18 | 390 | 160 | 180 | 198 | 100 | 296 | 928 | 442 | 100 | 650 | 350 | 390 | 300 | 850 | M32x1.5 | M32x1.5 | 113.7 |
| 40-200/11 | 65 | 122 | 145 | 185 | 20 | 40 | 88 | 110 | 150 | 18 | 390 | 160 | 180 | 238 | 100 | 296 | 1071 | 610 | 100 | 800 | 380 | 420 | 330 | 1000 | M40x1.5 | M40x1.5 | 140.6 |
| 50-125/2.2 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 342 | 132 | 160 | 148 | 100 | 254 | 780 | 317 | 80 | 550 | 350 | 390 | 300 | 710 | M25x1.5 | M20x1.5 | 80 |
| 50-125/3.0 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 342 | 132 | 160 | 155 | 100 | 254 | 829 | 366 | 80 | 590 | 350 | 390 | 300 | 750 | M25x1.5 | M20x1.5 | 91.1 |
| 50-125/4.0 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 342 | 132 | 160 | 171 | 100 | 254 | 851 | 388 | 80 | 590 | 350 | 390 | 300 | 750 | M25x1.5 | M20x1.5 | 91.7 |
| 50-160/5.5 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 390 | 160 | 180 | 198 | 100 | 296 | 908 | 442 | 100 | 650 | 350 | 390 | 300 | 850 | M32x1.5 | M32x1.5 | 111.5 |
| 50-160/7.5 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 390 | 160 | 180 | 198 | 100 | 296 | 928 | 442 | 100 | 650 | 350 | 390 | 300 | 850 | M32x1.5 | M32x1.5 | 115.4 |
| 50-200/9.2 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 410 | 160 | 200 | 198 | 100 | 296 | 968 | 482 | 100 | 650 | 350 | 390 | 300 | 850 | M32x1.5 | M32x1.5 | 124.1 |
| 50-200/11 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 410 | 160 | 200 | 238 | 100 | 296 | 1071 | 610 | 100 | 800 | 380 | 420 | 330 | 1000 | M40x1.5 | M32x1.5 | 144.4 |
| 50-200/15 | 65 | 122 | 145 | 185 | 20 | 50 | 102 | 125 | 165 | 20 | 410 | 160 | 200 | 238 | 100 | 296 | 1071 | 610 | 100 | 800 | 380 | 420 | 330 | 1000 | M40x1.5 | M40x1.5 | 154.4 |
| 65-125/4.0 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 390 | 160 | 180 | 171 | 100 | 263 | 851 | 388 | 80 | 590 | 350 | 390 | 300 | 750 | M25x1.5 | M20x1.5 | 70.9 |
| 65-125/5.5 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 390 | 160 | 180 | 198 | 100 | 263 | 908 | 442 | 100 | 650 | 350 | 390 | 300 | 850 | M32x1.5 | M32x1.5 | 115.3 |
| 65-125/7.5 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 390 | 160 | 180 | 198 | 100 | 263 | 928 | 442 | 100 | 650 | 350 | 390 | 300 | 850 | M32x1.5 | M32x1.5 | 129.9 |
| 65-160/7.5 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 410 | 160 | 200 | 198 | 100 | 296 | 928 | 442 | 100 | 650 | 350 | 390 | 300 | 850 | M32x1.5 | M32x1.5 | 133.2 |
| 65-160/9.2 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 410 | 160 | 200 | 198 | 100 | 296 | 968 | 482 | 100 | 650 | 350 | 390 | 300 | 850 | M32x1.5 | M32x1.5 | 138 |
| 65-160/11 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 410 | 160 | 200 | 238 | 100 | 296 | 1071 | 610 | 100 | 800 | 380 | 420 | 330 | 1000 | M40x1.5 | M40x1.5 | 144.8 |
| 65-160/15 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 455 | 160 | 200 | 238 | 100 | 296 | 1071 | 610 | 100 | 800 | 380 | 420 | 330 | 1000 | M40x1.5 | M40x1.5 | 151 |
| 65-200/15 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 455 | 180 | 225 | 238 | 100 | 312 | 1071 | 610 | 100 | 800 | 380 | 420 | 330 | 1000 | M40x1.5 | M40x1.5 | 156 |
| 65-200/18.5 | 80 | 138 | 160 | 200 | 22 | 65 | 122 | 145 | 185 | 20 | 455 | 180 | 225 | 238 | 100 | 312 | 1115 | 654 | 100 | 800 | 380 | 420 | 330 | 1000 | M40x1.5 | M40x1.5 | 156.2 |

PACKING 3D



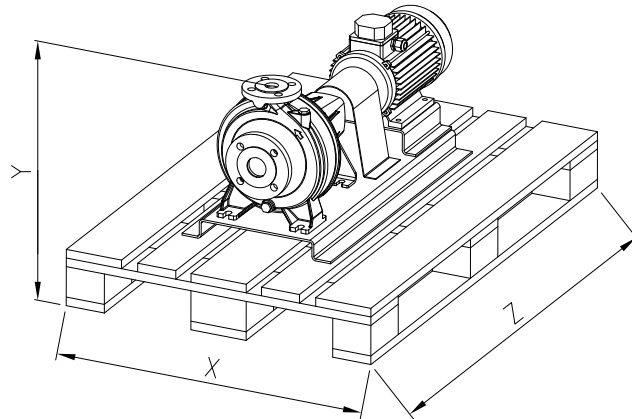
| Pump type | Packing [mm] | | | | | | Weight [kgf] | | Pack type |
|----------------|----------------|------|------|------|------|------|----------------|-------|-----------|
| | X | | Y | | Z | | [1~] | [3~] | |
| | [1~] | [3~] | [1~] | [3~] | [1~] | [3~] | | | |
| 32-125/1.1 (M) | | | | | | | 33 | 31,5 | 1 |
| 32-160/1.5 (M) | 280 | 280 | 350 | 360 | 490 | 470 | 35,5 | 35,5 | |
| 32-160/2.2 (M) | | | 360 | | 535 | 535 | 42 | 45 | |
| 32-200/3.0 | | | | 400 | | 560 | | 52,4 | 2 |
| 32-200/4.0 | - | 330 | - | | - | | - | 53,8 | |
| 32-200/7.5 | | | | 410 | | 680 | | 69,4 | |
| 40-125/1.5 (M) | 280 | 280 | 350 | 360 | 490 | 470 | 35 | 39 | 1 |
| 40-125/2.2 (M) | | | 360 | | 535 | 535 | 38,5 | 34 | |
| 40-160/3.0 | | 330 | | 400 | | 560 | | 39,8 | 2 |
| 40-160/4.0 | | | | | | | | 52,6 | |
| 40-200/5.5 | - | 370 | - | 455 | - | 580 | - | 64,4 | |
| 40-200/7.5 | | | | | | 680 | | 71,5 | 2 |
| 40-200/11 | | 330 | | 410 | | | | 93,4 | |
| 50-125/2.2 (M) | 280 | 280 | 360 | 360 | 535 | 535 | 41 | 39 | 1 |
| 50-125/3.0 | | | | | | | | 40 | 2 |
| 50-125/4.0 | | 330 | | 400 | | 560 | | 52,6 | |
| 50-160/5.5 | | 370 | | 455 | | 580 | | 64,2 | |
| 50-160/7.5 | | | | | | | | 71,7 | |
| 50-200/9.2 | | 330 | | 410 | | 680 | | 81 | |
| 50-200/11 | | | | | | | | 87,4 | |
| 50-200/15 | | 370 | | 440 | | 860 | | 133 | |
| 65-125/4.0 | | 330 | | 400 | | 560 | | 58 | |
| 65-125/5.5 | - | 370 | - | 455 | - | 580 | - | 70,8 | |
| 65-125/7.5 | | | | | | | | 81,8 | |
| 65-160/7.5 | | | | | | | | 78 | |
| 65-160/9.2 | | 330 | | 410 | | 680 | | 93 | |
| 65-160/11 | | | | | | | | 89,4 | |
| 65-160/15 | | | | | | | | 138,6 | |
| 65-200/15 | | | | | | | | 138 | |
| 65-200/18.5 | | 370 | | 440 | | 860 | | 155,8 | |
| 65-200/22 | | | | | | | | 170,6 | |

PACKING 3DS



| Pump type | Packing [mm] | | | Weight Kgf | Pack Type |
|-------------|----------------|-----|------|---------------|--------------|
| | X | Y | Z | | |
| 32-125/1.1 | 450 | 250 | 300 | 33,8 | 1 |
| 32-160/1.5 | 350 | 488 | 580 | 41,2 | |
| 32-160/2.2 | 350 | 488 | 580 | 43,9 | |
| 32-200/3.0 | 350 | 498 | 700 | 63,4 | |
| 32-200/4.0 | 350 | 498 | 700 | 63,7 | |
| 32-200/7.5 | 350 | 498 | 700 | 97 | |
| 40-125/1.5 | 350 | 488 | 580 | 36 | |
| 40-125/2.2 | 350 | 488 | 580 | 39,7 | |
| 40-160/3.0 | 350 | 498 | 700 | 68,5 | |
| 40-160/4.0 | 350 | 498 | 700 | 56,2 | |
| 40-200/5.5 | 350 | 498 | 700 | 83,9 | |
| 40-200/7.5 | 350 | 498 | 700 | 101 | |
| 40-200/11 | 390 | 598 | 970 | 159,3 | |
| 50-125/2.2 | 350 | 498 | 700 | 42,9 | |
| 50-125/3.0 | 350 | 498 | 700 | 45,1 | |
| 50-125/4.0 | 350 | 498 | 700 | 57,8 | |
| 50-160/5.5 | 350 | 498 | 700 | 81,3 | |
| 50-160/7.5 | 350 | 498 | 700 | 111,8 | |
| 50-200/9.2 | 390 | 598 | 880 | 108 | |
| 50-200/11 | 390 | 598 | 880 | 138,8 | |
| 50-200/15 | 390 | 598 | 880 | 191,9 | |
| 65-125/4.0 | 350 | 498 | 700 | 72,6 | |
| 65-125/5.5 | 350 | 498 | 700 | 81,7 | |
| 65-125/7.5 | 350 | 498 | 700 | 105,6 | |
| 65-160/7.5 | 350 | 498 | 700 | 104,8 | |
| 65-160/9.2 | 390 | 598 | 880 | 109 | |
| 65-160/11 | 390 | 598 | 970 | 108,8 | |
| 65-160/15 | 390 | 598 | 970 | 150,9 | |
| 65-200/15 | 390 | 598 | 880 | 162,9 | |
| 65-200/18.5 | 390 | 598 | 970 | 165,5 | |
| 65-200/22 | 500 | 727 | 1100 | 219 | |

PACKING 3DP



| Pump type | Packing [mm] | | | Wweight Kgf |
|-------------|----------------|-----|------|----------------|
| | X | Y | Z | |
| 32-125/1.1 | 800 | 394 | 1200 | 65,6 |
| 32-160/1.5 | | 434 | | 72,0 |
| 32-160/2.2 | | | | 75,0 |
| 32-200/3.0 | | | | 97,5 |
| 32-200/4.0 | | 482 | | 100,5 |
| 32-200/7.5 | | | | 130,7 |
| 40-125/1.5 | | 394 | | 89,7 |
| 40-125/2.2 | | | | 70,5 |
| 40-160/3.0 | | 434 | | 107,0 |
| 40-160/4.0 | | | | 88,3 |
| 40-200/5.5 | | | | 118,5 |
| 40-200/7.5 | | 482 | | 127,2 |
| 40-200/11 | | | | 154,1 |
| 50-125/2.2 | | | | 93,5 |
| 50-125/3.0 | | 434 | | 104,5 |
| 50-125/4.0 | | | | 105,2 |
| 50-160/5.5 | | 482 | | 125,0 |
| 50-160/7.5 | | | | 129,0 |
| 50-200/9.2 | | | | 137,6 |
| 50-200/11 | | 502 | | 157,9 |
| 50-200/15 | | | | 167,9 |
| 65-125/4.0 | | | | 84,4 |
| 65-125/5.5 | | 482 | | 128,8 |
| 65-125/7.5 | | | | 143,5 |
| 65-160/7.5 | | | | 146,7 |
| 65-160/9.2 | | 502 | | 151,5 |
| 65-160/11 | | | | 158,3 |
| 65-160/15 | | | | 164,5 |
| 65-200/15 | | 547 | | 169,5 |
| 65-200/18.5 | | | | 169,7 |
| 65-200/22 | | | | 224,5 |

MOTOR DATA 3D

| Pump type | Power | | Efficiency | Capacitor | | Efficiency (% load) | | | | Input [kW] | Full load current | | Locked rotor current [A] 230 V |
|-----------------|-------|------|-------------|-----------|-----|---------------------|------|------|-------|---------------|-------------------|--|--------------------------------------|
| | [kW] | [HP] | [IE2 / IE3] | [mF] | [V] | η % | | | cos-φ | | [A] | | |
| | | | | | | 50% | 75% | 100% | | 230 V | | | |
| 3D 32-125/1.1 M | 1,1 | 1,5 | IE2 | 50 | 450 | 66,5 | 75,5 | 80,9 | 0,96 | 1,47 | 6,7 | | 46,4 |
| 3D 32-160/1.5 M | 1,5 | 2,0 | IE2 | 50 | 450 | 72,4 | 79,2 | 81,4 | 0,96 | 1,94 | 8,7 | | 54 |
| 3D 32-160/2.2 M | 2,2 | 3,0 | IE2 | 55 | 450 | 76,5 | 81,5 | 83,8 | 0,95 | 2,72 | 12,3 | | 73 |
| 3D 40-125/1,5 M | 1,5 | 2,0 | IE2 | 50 | 450 | 72,4 | 79,2 | 81,4 | 0,96 | 1,94 | 8,7 | | 54 |
| 3D 40-125/2.2 M | 2,2 | 3,0 | IE2 | 55 | 450 | 76,5 | 81,5 | 83,8 | 0,95 | 2,72 | 12,3 | | 73 |
| 3D 50-125/2.2 M | 2,2 | 3,0 | IE2 | 55 | 450 | 76,5 | 81,5 | 83,8 | 0,95 | 2,72 | 12,3 | | 73 |

| Pump type | Power | | Efficiency (% load) | | | Input [kW] | Full load current | | | Locked rotor current | | |
|----------------|-------|------|---------------------|------|------|---------------|-------------------|-------|-------|----------------------|-------|-------|
| | [kW] | [HP] | η % | | | | [A] | | | [A] | | |
| | | | 50% | 75% | 100% | 230 V | 400 V | 690 V | 230 V | 400 V | 690 V | |
| 3D 32-125/1.1 | 1,1 | 1,5 | 83,5 | 84,3 | 84,6 | 1,77 | 5,8 | 3,3 | - | 47,4 | 27,4 | - |
| 3D 32-160/1.5 | 1,5 | 2,0 | 83,5 | 84,3 | 84,6 | 1,77 | 5,8 | 3,3 | - | 47,4 | 27,4 | - |
| 3D 32-160/2.2 | 2,2 | 3,0 | 86,2 | 87,0 | 86,0 | 2,55 | 8,2 | 4,7 | - | 66,6 | 38,4 | - |
| 3D 32-200/3.0 | 3,0 | 4,0 | 85,9 | 87,5 | 87,1 | 3,44 | 11,1 | 6,4 | - | 90,0 | 52,0 | - |
| 3D 32-200/4.0 | 4,0 | 5,5 | 85,8 | 88,3 | 88,4 | 4,52 | 15,1 | 8,7 | - | 131,8 | 76,1 | - |
| 3D 32-200/7.5 | 7,5 | 10,0 | 89,0 | 90,7 | 90,8 | 8,26 | - | 13,6 | 7,9 | - | 144,0 | 83,0 |
| 3D 40-125/1.5 | 1,5 | 2,0 | 83,5 | 84,3 | 84,6 | 1,77 | 5,8 | 3,3 | - | 47,4 | 27,4 | - |
| 3D 40-125/2.2 | 2,2 | 3,0 | 86,2 | 87,0 | 86,0 | 2,55 | 8,2 | 4,7 | - | 66,6 | 38,4 | - |
| 3D 40-160/3.0 | 3,0 | 4,0 | 85,9 | 87,5 | 87,1 | 3,44 | 11,1 | 6,4 | - | 90,0 | 52,0 | - |
| 3D 40-160/4.0 | 4,0 | 5,5 | 85,8 | 88,3 | 88,4 | 4,52 | 15,1 | 8,7 | - | 131,8 | 76,1 | - |
| 3D 40-200/5.5 | 5,5 | 7,5 | 89,2 | 90,6 | 90,4 | 6,09 | - | 10,6 | 6,1 | - | 115,3 | 67,0 |
| 3D 40-200/7.5 | 7,5 | 10,0 | 89,0 | 90,7 | 90,8 | 8,26 | - | 13,6 | 7,9 | - | 144,0 | 83,0 |
| 3D 40-200/11 | 11,0 | 15,0 | 90,4 | 91,2 | 91,8 | 11,98 | - | 21,3 | 12,3 | - | 184,0 | 107,0 |
| 3D 50-125/2.2 | 2,2 | 3,0 | 86,2 | 87,0 | 86,0 | 2,55 | 8,2 | 4,7 | - | 66,6 | 38,4 | - |
| 3D 50-125/3.0 | 3,0 | 4,0 | 85,0 | 86,7 | 86,3 | 3,48 | 10,6 | 6,1 | - | 100,0 | 57,7 | - |
| 3D 50-125/3.0 | 3,0 | 4,0 | 85,9 | 87,5 | 87,1 | 3,44 | 11,1 | 6,4 | - | 90,0 | 52,0 | - |
| 3D 50-125/4.0 | 4,0 | 5,5 | 85,8 | 88,3 | 88,4 | 4,52 | 15,1 | 8,7 | - | 131,8 | 76,1 | - |
| 3D 50-160/5.5 | 5,5 | 7,5 | 89,2 | 90,6 | 90,4 | 6,09 | - | 10,6 | 6,1 | - | 115,3 | 67,0 |
| 3D 50-160/7.5 | 7,5 | 10,0 | 89,0 | 90,7 | 90,8 | 8,26 | - | 13,6 | 7,9 | - | 144,0 | 83,0 |
| 3D 50-200/9.2 | 9,2 | 12,5 | 90,1 | 90,8 | 90,9 | 10,12 | - | 17,2 | 10,0 | - | 166,0 | 96,0 |
| 3D 50-200/11 | 11,0 | 15,0 | 90,4 | 91,2 | 91,8 | 11,98 | - | 21,3 | 12,3 | - | 184,0 | 107,0 |
| 3D 50-200/15 | 15,0 | 20,0 | 91,2 | 92,0 | 91,9 | 18,00 | - | 30,0 | 17,3 | - | 225,0 | 130,0 |
| 3D 65-125/4.0 | 4,0 | 5,5 | 84,3 | 87,2 | 87,8 | 4,56 | 15,1 | 8,7 | - | 151,0 | 87,0 | - |
| 3D 65-125/4 | 4,0 | 5,5 | 85,8 | 88,3 | 88,4 | 4,52 | 15,1 | 8,7 | - | 131,8 | 76,1 | - |
| 3D 65-125/5.5 | 5,5 | 7,5 | 82,9 | 86,0 | 87,4 | 6,29 | - | 10,4 | 6,0 | - | 116,0 | 67,0 |
| 3D 65-125/5.5 | 5,5 | 7,5 | 89,2 | 90,6 | 90,4 | 6,09 | - | 10,6 | 6,1 | - | 115,3 | 67,0 |
| 3D 65-125/7.5 | 7,5 | 10,0 | 89,0 | 90,7 | 90,8 | 8,26 | - | 13,6 | 7,9 | - | 144,0 | 83,0 |
| 3D 65-160/7.5 | 7,5 | 10,0 | 89,0 | 90,7 | 90,8 | 8,26 | - | 13,6 | 7,9 | - | 144,0 | 83,0 |
| 3D 65-160/9.2 | 9,2 | 12,5 | 90,1 | 90,8 | 90,9 | 10,12 | - | 17,2 | 10,0 | - | 166,0 | 96,0 |
| 3D 65-160/11 | 11,0 | 15,0 | 90,4 | 91,2 | 91,8 | 11,98 | - | 21,3 | 12,3 | - | 184,0 | 107,0 |
| 3D 65-160/15 | 15,0 | 20,0 | 91,2 | 92,0 | 91,9 | 16,32 | - | 27,7 | 17,3 | - | 225,0 | 130,0 |
| 3D 65-200/15 | 15,0 | 20,0 | 91,2 | 92,0 | 91,9 | 16,32 | - | 27,7 | 17,3 | - | 225,0 | 130,0 |
| 3D 65-200/18.5 | 18,5 | 25,0 | 91,6 | 93,0 | 92,6 | 19,98 | - | 35,0 | 20,3 | - | 328,0 | 190,0 |
| 3D 65-200/22 | 22,0 | 30,0 | 92,0 | 93,1 | 93,2 | 23,58 | - | 39,7 | 23,6 | - | 391,0 | 227,0 |

MOTOR DATA 3DS-3DP

| Pump Type | | Motor Size | Motor Power | | Input [kW] | Efficiency (% load) | | | | Full load current [A] | | | Locked rotor current [A] | | |
|-----------------|-----------------|------------|-------------|------|------------|---------------------|------|------|-------|-----------------------|-------|-------|--------------------------|-------|-------|
| | | | [kW] | [HP] | | η % | | | cos-φ | 230 V | 400 V | 690 V | 230 V | 400 V | 690 V |
| | | | | | | 50% | 75% | 100% | | | | | | | |
| 3DS 32-125/1.1 | 3DP 32-125/1.1 | 80 | 1,1 | 1,5 | 1,26 | 78,7 | 81,7 | 82,7 | 0,8 | 4,2 | 2,4 | - | 38,7 | 22,3 | - |
| 3DS 32-160/1.5 | 3DP 32-160/1.5 | 90S | 1,5 | 2 | 1,77 | 83,2 | 84,8 | 84,2 | 0,9 | 5,2 | 3,0 | - | 43,6 | 25,2 | - |
| 3DS 32-160/2.2 | 3DP 32-160/2.2 | 90L | 2,2 | 3 | 2,61 | 85,0 | 86,2 | 86,5 | 0,8 | 8,0 | 4,6 | - | 73,3 | 42,3 | - |
| 3DS 32-200/3.0 | 3DP 32-200/3.0 | 100L | 3 | 4 | 3,45 | 82,3 | 85,8 | 87,1 | 0,9 | 9,7 | 5,6 | - | 85,4 | 49,3 | - |
| 3DS 32-200/4.0 | 3DP 32-200/4.0 | 112M | 4 | 5,5 | 4,51 | 86,8 | 87,8 | 88,1 | 0,9 | 12,1 | 7,0 | - | 116,4 | 67,2 | - |
| 3DS 32-200/7.5 | 3DP 32-200/7.5 | 132S | 7,5 | 10 | 8,35 | 88,6 | 89,2 | 90,1 | 0,9 | - | 13,1 | 7,6 | - | 116,6 | 67,3 |
| 3DS 40-125/1.5 | 3DP 40-125/1.5 | 90S | 1,5 | 2 | 1,77 | 83,2 | 84,8 | 84,2 | 0,9 | 5,2 | 3,0 | - | 43,6 | 25,2 | - |
| 3DS 40-125/2.2 | 3DP 40-125/2.2 | 90L | 2,2 | 3 | 2,61 | 85,0 | 86,2 | 86,5 | 0,8 | 8,0 | 4,6 | - | 73,3 | 42,3 | - |
| 3DS 40-160/3.0 | 3DP 40-160/3.0 | 100L | 3 | 4 | 3,45 | 82,3 | 85,8 | 87,1 | 0,9 | 9,7 | 5,6 | - | 85,4 | 49,3 | - |
| 3DS 40-160/4.0 | 3DP 40-160/4.0 | 112M | 4 | 5,5 | 4,51 | 86,8 | 87,8 | 88,1 | 0,9 | 12,1 | 7,0 | - | 116,4 | 67,2 | - |
| 3DS 40-200/5.5 | 3DP 40-200/5.5 | 132S | 5,5 | 7,5 | 6,24 | 88,0 | 88,5 | 89,2 | 0,9 | - | 10,0 | 5,8 | - | 89,0 | 51,4 |
| 3DS 40-200/7.5 | 3DP 40-200/7.5 | | 7,5 | 10 | 8,35 | 88,6 | 89,2 | 90,1 | 0,9 | - | 13,1 | 7,6 | - | 116,6 | 67,3 |
| 3DS 40-200/11 | 3DP 40-200/11 | 160M | 11 | 15 | 12,15 | 87,4 | 89,8 | 91,2 | 0,9 | - | 19,7 | 11,4 | - | 179,3 | 103,5 |
| 3DS 50-125/2.2 | 3DP 50-125/2.2 | 90L | 2,2 | 3 | 2,61 | 85,0 | 86,2 | 86,5 | 0,8 | 8,0 | 4,6 | - | 73,3 | 42,3 | - |
| 3DS 50-125/3.0 | 3DP 50-125/3.0 | 100L | 3 | 4 | 3,45 | 82,3 | 85,8 | 87,1 | 0,9 | 9,7 | 5,6 | - | 85,4 | 49,3 | - |
| 3DS 50-125/4.0 | 3DP 50-125/4.0 | 112M | 4 | 5,5 | 4,51 | 86,8 | 87,8 | 88,1 | 0,9 | 12,1 | 7,0 | - | 116,4 | 67,2 | - |
| 3DS 50-160/5.5 | 3DP 50-160/5.5 | 132S | 5,5 | 7,5 | 6,24 | 88,0 | 88,5 | 89,2 | 0,9 | - | 10,0 | 5,8 | - | 89,0 | 51,4 |
| 3DS 50-160/7.5 | 3DP 50-160/7.5 | | 7,5 | 10 | 8,35 | 88,6 | 89,2 | 90,1 | 0,9 | - | 13,1 | 7,6 | - | 116,6 | 67,3 |
| 3DS 50-200/9.2 | 3DP 50-200/9.2 | 132M | 9,2 | 12,5 | 10,17 | 88,6 | 89,8 | 90,7 | 0,9 | - | 16,5 | 9,5 | - | 166,7 | 96,2 |
| 3DS 50-200/11 | 3DP 50-200/11 | 160M | 11 | 15 | 12,15 | 87,4 | 89,8 | 91,2 | 0,9 | - | 19,7 | 11,4 | - | 179,3 | 103,5 |
| 3DS 50-200/15 | 3DP 50-200/15 | | 15 | 20 | 16,46 | 91,0 | 91,3 | 91,9 | 0,9 | - | 26,7 | 15,4 | - | 259,0 | 149,5 |
| 3DS 65-125/4 | 3DP 65-125/4 | 112M | 4 | 5,5 | 4,51 | 86,8 | 87,8 | 88,1 | 0,9 | 12,1 | 7,0 | - | 116,4 | 67,2 | - |
| 3DS 65-125/5.5 | 3DP 65-125/5.5 | 132S | 5,5 | 7,5 | 6,24 | 88,0 | 88,5 | 89,2 | 0,9 | - | 10,0 | 5,8 | - | 89,0 | 51,4 |
| 3DS 65-125/7.5 | 3DP 65-125/7.5 | | 7,5 | 10 | 8,35 | 88,6 | 89,2 | 90,1 | 0,9 | - | 13,1 | 7,6 | - | 116,6 | 67,3 |
| 3DS 65-160/7.5 | 3DP 65-160/7.5 | 132M | 7,5 | 10 | 8,35 | 88,6 | 89,2 | 90,1 | 0,9 | - | 13,1 | 7,6 | - | 116,6 | 67,3 |
| 3DS 65-160/9.2 | 3DP 65-160/9.2 | | 9,2 | 12,5 | 10,17 | 88,6 | 89,8 | 90,7 | 0,9 | - | 16,5 | 9,5 | - | 166,7 | 96,2 |
| 3DS 65-160/11 | 3DP 65-160/11 | 160M | 11 | 15 | 12,15 | 87,4 | 89,8 | 91,2 | 0,9 | - | 19,7 | 11,4 | - | 179,3 | 103,5 |
| 3DS 65-160/15 | 3DP 65-160/15 | | 15 | 20 | 16,46 | 91,0 | 91,3 | 91,9 | 0,9 | - | 26,7 | 15,4 | - | 259,0 | 149,5 |
| 3DS 65-200/15 | 3DP 65-200/15 | 160L | 15 | 20 | 16,46 | 91,0 | 91,3 | 91,9 | 0,9 | - | 26,7 | 15,4 | - | 259,0 | 149,5 |
| 3DS 65-200/18.5 | 3DP 65-200/18.5 | | 18,5 | 25 | 20,12 | 91,6 | 92,8 | 92,4 | 0,9 | - | 33,0 | 19,1 | - | 353,1 | 203,9 |
| 3DS 65-200/22 | 3DP 65-200/22 | 180M | 22 | 30 | 23,69 | 92,3 | 92,9 | 92,9 | 0,9 | - | 38,0 | 22,0 | - | 361,0 | 209,0 |

3D NOISE DATA

| Pump type | L _{pA} - dB(A) * |
|-------------------|---------------------------|
| 3D 32-125/1.1 (M) | 69 |
| 3D 32-160/1.5 (M) | |
| 3D 32-160/2.2 (M) | |
| 3D 32-200/3.0 | 76 |
| 3D 32-200/4.0 | |
| 3D 32-200/7.5 | |
| 3D 40-125/1.5 (M) | 69 |
| 3D 40-125/2.2 (M) | |
| 3D 40-160/3.0 | 76 |
| 3D 40-160/4.0 | |
| 3D 40-200/5.5 | 79 |
| 3D 40-200/7.5 | |
| 3D 40-200/11 | 82 |
| 3D 50-125/2.2 (M) | 69 |
| 3D 50-125/3.0 | 76 |
| 3D 50-125/4.0 | |
| 3D 50-160/5.5 | 79 |
| 3D 50-160/7.5 | |
| 3D 50-200/9.2 | 82 |
| 3D 50-200/11 | |
| 3D 50-200/15 | 86 |
| 3D 65-125/4.0 | 76 |
| 3D 65-125/5.5 | 79 |
| 3D 65-125/7.5 | |
| 3D 65-160/7.5 | |
| 3D 65-160/9.2 | 82 |
| 3D 65-160/11 | |
| 3D 65-160/15 | 86 |
| 3D 65-200/15 | |
| 3D 65-200/18.5 | |
| 3D 65-200/22 | |

3DS-3DP NOISE DATA

| Pump Type | | L _{pA} - dB(A) * | |
|-----------------|-----------------|---------------------------|----|
| 3DS 32-125/1.1 | 3DP 32-125/1.1 | <70 | |
| 3DS 32-160/1.5 | 3DP 32-160/1.5 | | |
| 3DS 32-160/2.2 | 3DP 32-160/2.2 | | |
| 3DS 32-200/3.0 | 3DP 32-200/3.0 | | |
| 3DS 32-200/4.0 | 3DP 32-200/4.0 | | |
| 3DS 32-200/7.5 | 3DP 32-200/7.5 | | 72 |
| 3DS 40-125/1.5 | 3DP 40-125/1.5 | <70 | |
| 3DS 40-125/2.2 | 3DP 40-125/2.2 | | |
| 3DS 40-160/3.0 | 3DP 40-160/3.0 | | |
| 3DS 40-160/4.0 | 3DP 40-160/4.0 | | |
| 3DS 40-200/5.5 | 3DP 40-200/5.5 | | 72 |
| 3DS 40-200/7.5 | 3DP 40-200/7.5 | | 74 |
| 3DS 40-200/11 | 3DP 40-200/11 | 74 | |
| 3DS 50-125/2.2 | 3DP 50-125/2.2 | <70 | |
| 3DS 50-125/3.0 | 3DP 50-125/3.0 | | |
| 3DS 50-125/4.0 | 3DP 50-125/4.0 | | |
| 3DS 50-160/5.5 | 3DP 50-160/5.5 | | 72 |
| 3DS 50-160/7.5 | 3DP 50-160/7.5 | | |
| 3DS 50-200/9.2 | 3DP 50-200/9.2 | 74 | |
| 3DS 50-200/11 | 3DP 50-200/11 | | |
| 3DS 50-200/15 | 3DP 50-200/15 | | |
| 3DS 65-125/4 | 3DP 65-125/4 | <70 | |
| 3DS 65-125/5.5 | 3DP 65-125/5.5 | 72 | |
| 3DS 65-125/7.5 | 3DP 65-125/7.5 | | |
| 3DS 65-160/7.5 | 3DP 65-160/7.5 | | |
| 3DS 65-160/9.2 | 3DP 65-160/9.2 | | |
| 3DS 65-160/11 | 3DP 65-160/11 | 74 | |
| 3DS 65-160/15 | 3DP 65-160/15 | | |
| 3DS 65-200/15 | 3DP 65-200/15 | | |
| 3DS 65-200/18.5 | 3DP 65-200/18.5 | | |
| 3DS 65-200/22 | 3DP 65-200/22 | | 77 |



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