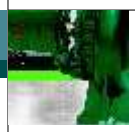
SERIES

# INI

IMBIL®
Pumping Solutions



## INTRODUCTION

In this catalogue the entire range of pump models from the series INI/INI-bloc produced by our company are described.
It contains technical information about construction, and characteristic curves from each model.
Imbil and its DISTRIBUTORS will always be at your disposal to supply for additional information and to offer technical assistance.

## NOTES

- We reserve the right to perform modifications in our products whenever necessary and this shall not incur in obligations of any type.
- The illustrations contained in this catalogue are indicative and in case there are any questions about their interpretation you must consult the IMBIL DISTRIBUTOR.

## APLICATION INI

Pumping of liquids in wastwater, irrigation, chemical and petrochemical industries, sugarmills, distilleries paper and pulp industries, raw sewage, sugar bagasse, circulation of thermal oil, condensed liquids etc.

## CONSTRUCTION

Constructed dimensionally according to the norms **DIN 24 256/ ISO 2858,** and mechanically according to the norm **ANSI B73.1.**

**Horizontal shaft pumps**, single stage, horizontal suction and vertical discharge, with **"BACK PULL-OUT"** construction, allowing the disassembly from the back for eventual maintenance and repair, without affecting the alignment and fixation of the piping.

**Spiral housing,** casted in one single piece, with the fixation supports incorporated.

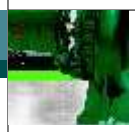
The sealing between the impeller and the housing is made by a replaceable wear ring, facilitating the pump maintenance.

**The Shaft Sealing** is ensured by a gasket in the standard execution, or optionally by a mechanical seal.

The **Shaft** has a protective bushing in the stuffing box packing region, without contact with the pumped liquid.

The **Impeller** is closed, single flow radial and has **axial thrust balance** through the relief holes, except in the models 32-125 and 32-160.

Depending on the temperature of the pumped liquid, the pumps may be supplied with a cooling chamber.



## APLICATION INI-BLOC

The pumps INI-Bloc are indicated for the pumping of clean or cloudy liquids and can be used in building and air conditioning facilities, in cooling services, in the condensed liquids circulation, irrigation, farming, public services, industrial water supply etc.

## CONSTRUCTION TECHNIQUES

Horizontal shaft pumps, single stage, horizontal suction and vertical discharge, with "BACK PULL-OUT" construction, allowing the disassembly from the back for eventual maintenance and repair, without affecting the alignment and fixation of the piping.

**Housing**
Volute, caste in one single piece, with the fixation supports incorporated. The discharge and suction are flanged (ANSI B16.1 FF/ B16.5 RF/EN 1092-2).
Note: some models can be supplied with threaded suction and discharge.

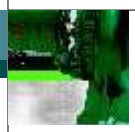
**Impeller**
The impeller is closed, single flow radial. The axial thrust balance is made through relief holes. The impeller is and keyed directly on the engine.

**Pressure cover / Junction part**
All the pump sizes use the Pressure cover and some also use the Junction Part.
These parts have the function of coupling the Housing to the Engine flange, allowing a perfect alignment between them.

**Sealing**
Through Mechanical Seal, TYPE 21

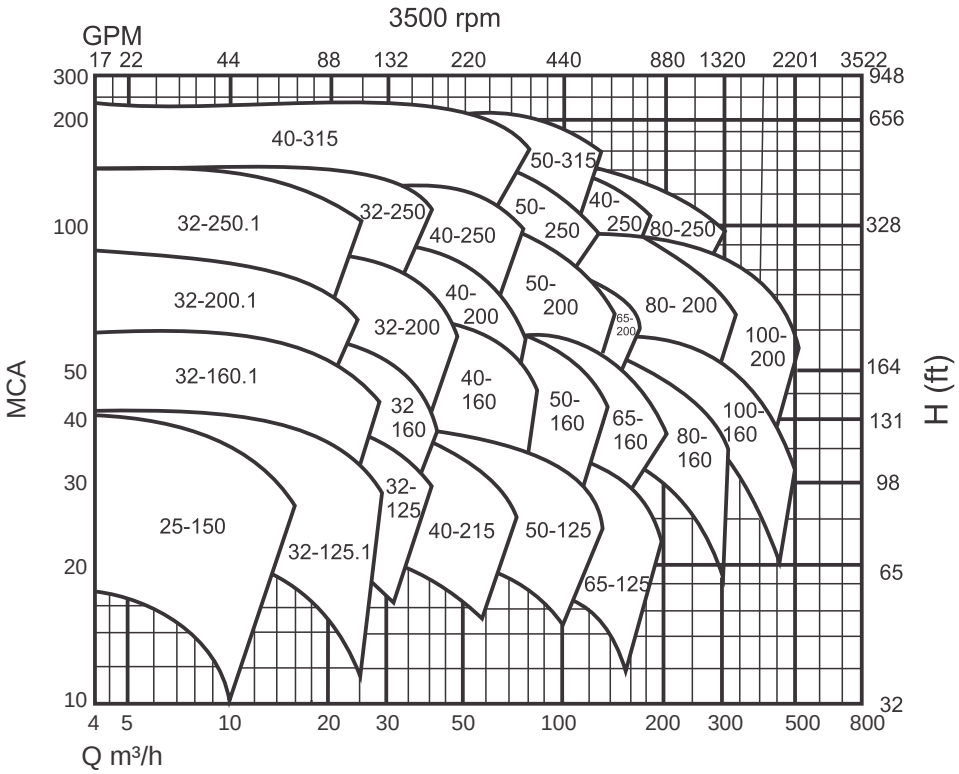
**Protective Bushing**
Surrounds the motor axle in the sealing region, preventing the pumped liquid from getting in contact with the shaft.

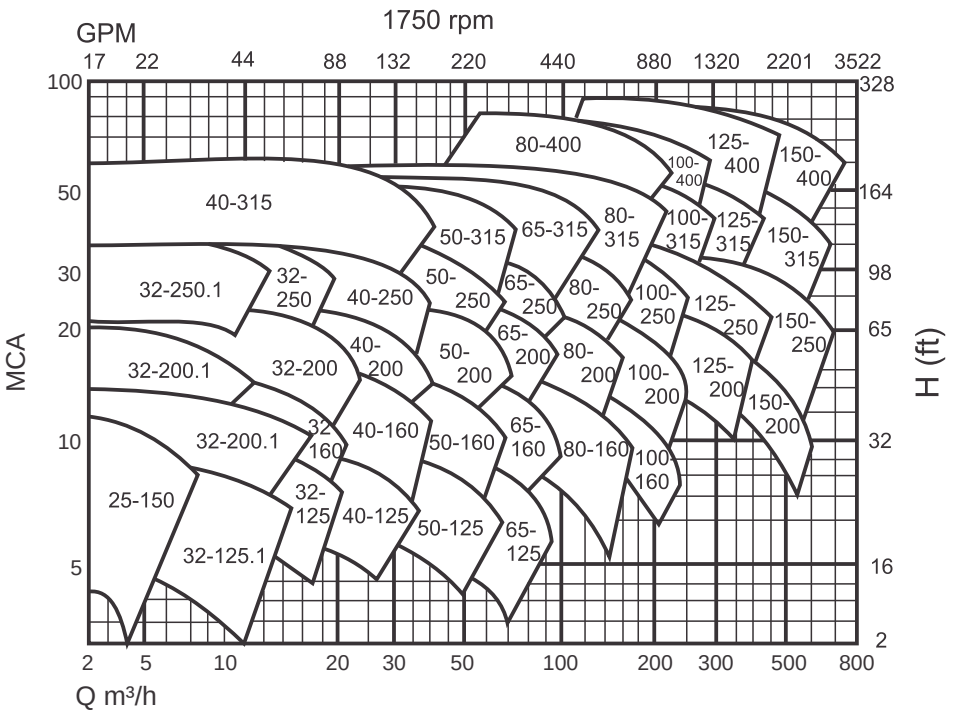
**Electric Motor**
Is supplied with the pump.
Standardized with Flange and shaft Stub JM/ JP according with the norm NEMA.
Motor Characteristics:
Protection Degree: IP 55
Insulation: Class B (130º C) - NBR 7094
Service Factor: 1.15 (up to 50 HP) – 1.00 (above 50 HP)
Rotation: 3500/ 1750 RPM
Frequency: 60Hz
Note: when purchasing the pump kit (without the motor), please inform the motor manufacturer.

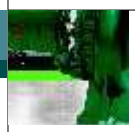


IMBIL Pumping Solutions

## Range Coverage Chart





## TECHNICAL DATA

**- Suction Maximum Pressure (bar):**
10 bar

**- Discharge Maximum Pressure according to theTemperature:**
See Figures 1, 2, 3 and 4 (page 7).
DP = SP + DiffP (Q = 0)
DP = Discharge Pressure
SP = Suction Pressure
DiffP= Differential Pressure

**- Minimum/maximum pressure for models with no cooling chamber (°C)**:
With packing = -50/ + 105 ºC.
With Mechanical Seal according to manufacturer recommendation.

**- Minimum/Maximum Temperature for models with refrigeration chamber (Cº)**:
With packing = see Figures 1 and 2 (pag 8);
With Mechanical Seal according to manufacturer recommendation.

**- Pressure of Hydrostatic Test (bar):**
According to ANSI B 73.1

- Rotation direction:
Clockwise, as seen from the actuation side.

**- Type of oil that should be used during lubrication:** Up to 1800 rpm - Castro l Hyspin AWS 68.
Above 1800 rpm - Castrol Hyspin AWS 46.

The values indicate in the table below for cooling liquid flow are based in a ?t of 15 ºC. The maximum temperature at the cooling chamber outlet is 50 ºC

| Models | | | Unit | 25-150 | 32-125.1 | 32-160.1 | 32-200.1 | 32-125 | 32-160 | 32-200 | 40-125 | 40-160 | 40-200 | 50-125 | 50-160 | 50-200 | 65-125 | 32-250.1 | 32-250 | 40-250 | 50-250 | 65-160 | 65-200 | 80-160 | 40-315 | 50-315 | 65-250 | 80-200 | 80-250 | 100-160 | 100-200 | 65-315 | 80-315 | 80-400 | 100-250 | 100-315 | 100-400 | 125-200 | 125-250 | 125-315 | 125-400 | 150-200 | 150-250 | 150-315 | 150-400 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bearing Housing | | | | I30 | | | | | | | | | | | | | | I40 | | | | | | | I40 R | | | | | | | I50 | | | | | | | | | | | | | I60 | |
| Impeller width | | | mm | 6 | 7 | 5 | 6 | 9 | 5 | 6 | 14 | 12 | 9 | 20 | 16 | 11 | 25 | 8 | 8 | 8 | 12 | 21 | 17 | 31 | 9 | 9 | 13 | 23 | 19 | 36 | 32 | 13 | 18 | 13 | 27 | 23 | 17 | 40 | 37 | 30 | 25 | 59 | 48 | 39 | 33 |
| GD² rotating set with water | | | Kg.m² | 0,0216 | 0,0140 | 0,0224 | 0,0760 | 0,0140 | 0,0239 | 0,0785 | 0,0145 | 0,0334 | 0,0639 | 0,0190 | 0,0395 | 0,0749 | 0,0263 | 0,1800 | 0,1921 | 0,1879 | 0,1919 | 0,0520 | 0,0983 | 0,0640 | 0,4395 | 0,4801 | 0,2231 | 0,1569 | 0,2903 | 0,1039 | 0,1801 | 0,5121 | 0,5695 | 1,2787 | 0,3171 | 0,6101 | 1,3830 | 0,2231 | 0,4101 | 0,7739 | 1,6911 | 0,2917 | 0,4657 | 0,8681 | 1,8601 |
| Weight in cast iron | | | Kg | 28 | 34 | 34 | 42 | 37 | 36 | 45 | 38 | 38 | 48 | 40 | 41 | 47 | 49 | 68 | 67 | 73 | 73 | 70 | 60 | 90 | 103 | 107 | 89 | 93 | 105 | 106 | 108 | 125 | 132 | 161 | 131 | 143 | 178 | 135 | 157 | 156 | 192 | 182 | 193 | 245 | 280 |
| Maximum rotation | | | rpm | 3500 | | | | | | | | | | | | | | | | | | | | | | | | | | | 1750 | | | | | | | | | | | | | | |
| Refrigeration liquid volumetric flow according to pumping temperature | | 140 ºC | | 1,2 | | | | | | | | | | | | | | 2,2 | | | | | | | | | | | | | 3,1 | | | | | | | | | | | | | 3,7 | |
| | | 160 ºC | | 1,5 | | | | | | | | | | | | | | 2,7 | | | | | | | | | | | | | 3,3 | | | | | | | | | | | | | 4,5 | |
| | | 200 ºC | | 2,2 | | | | | | | | | | | | | | 3,3 | | | | | | | | | | | | | 4,4 | | | | | | | | | | | | | 4,7 | |
| | | 250 ºC | | 3,0 | | | | | | | | | | | | | | 4,0 | | | | | | | | | | | | | 5,6 | | | | | | | | | | | | | 7,3 | |
| | | 350 ºC | | 4,0 | | | | | | | | | | | | | | 4,9 | | | | | | | | | | | | | 7,0 | | | | | | | | | | | | | 8,0 | |
| Refrigeration fluid maximum pressure | | | bar | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum / minimum volumetric flow | | | | 0,1 Qot/1,1 Qot | | | | | | | | | | | | | | | | | | | | | | | | | | | 0,15 Qot/1,1 Qot | | | | | | | | | | | | | | |
| Flanges | Iron/ Bronze | Stander | | ANSI B 16.1 125 Lb FF | | | | | | | | | | | | | | 250 Lb FF | | | 125 Lb FF | | | 250 Lb FF | * | | ** | | | | B 16.1 125 Lb FF | | | | | | | | | | | | | | |
| | | Opcional | | — | | | | | | | | | | | | | | 125 Lb FF | | | 250 Lb FF | | | 125 Lb FF | ** | | * | | | | B 16.1 205 Lb FF | | | | | | | | | | | | | | |
| | Steel | Stander | | ANSI B 16.5 150 Lb RF | | | | | | | | | | | | | | B 16.1 150 Lb RF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Opcional | | — | | | | | | | | | | | | | | B 16.1 300 Lb RF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bearings | | | | 6303 C3 | | | | | | | | | | | | | | 6308 C3 | | | | | | | *** | 6308 C3 | | | | | 6310 C3 | | | | | | | | | | | | | 6312 C3 | |
| P/N Maximum admissible | | | CV/rpm | 0,0175 | | | | | | | | | | | | | | 0,0330 | | | | | | | 0,0460 | | | | | | | 0,101 | | | | | | | | | | | | | 0,157 | |
| P/N Maximum admissible for pumps with SAE 40 Impeller | | | CV/rpm | 0,00707 | | | | | | | | | | | | | | 0,01868 | | | | | | | 0,02420 | | | | | | | 0,03629 | | | | | | | | | | | | | 0,5757 | |
| ☒ Packing | | | mm | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | 12,5 | | | | | | | | | | | | | 12,5 | |

*125Lb FF **250Lb FF ***Bearing Pump Side: NU 308 EC/Bearing Driver Side: 7308(2x)

## TECHNICAL DATA

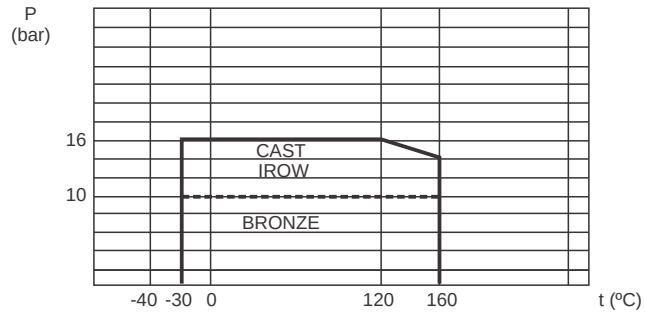



**Fig. 1** – Maximum discharge pressure according to temperature.

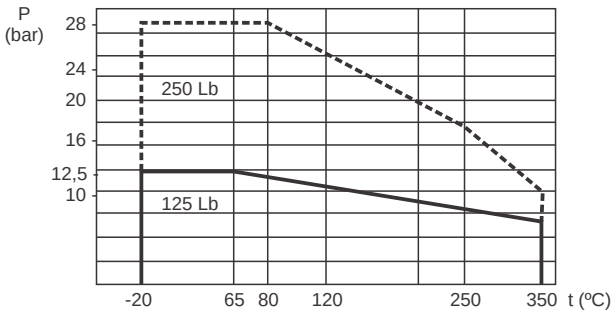



**Fig. 3** - Flanges ANSI B 16.1. Adccesitable pressure according to temperature.

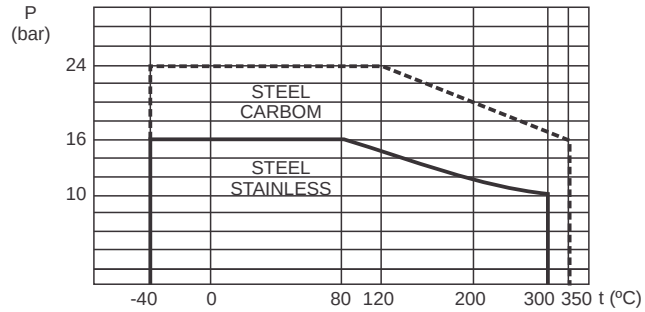



**Fig.2** Maximum discharge pressure according to temperature.

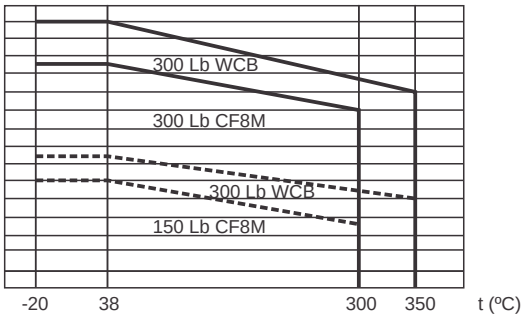



**Fig. 4** - Flanges ANSI B 16.5. Accesitable pressure according to temperature.

**- Peripheral speed (m/s).**
When determining the pump operation rotation, besides the maximum discharge pressure the maximum peripheral speed of the motor must be considered, according to its construction material.

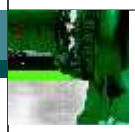
| | |
|---|---|
| GG 20 | 40 m/s |
| GGG 40 | 60 m/s |
| SAE 40 | 60 m/s |
| CF8M | 80 m/s |

- The **NPSH** values required are found in the characteristic curves of each model, being necessary to add 0.5 m as a measure fabrication safety.

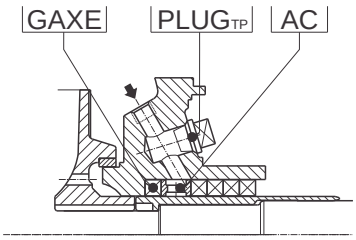
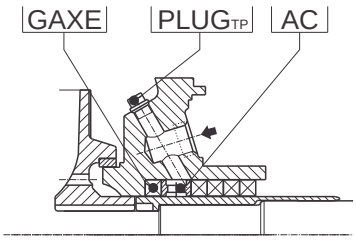
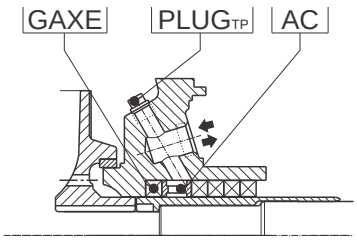
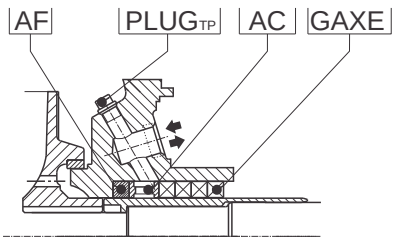
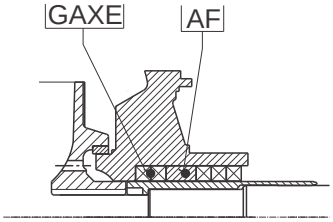
- For the execution with a CF8M stainless steel impeller, it's necessary to reduce the outputs found in the characteristic curves according to what is indicated next:

| Impeller width | Reduce |
|---|---|
| Up to 12 mm | 3 points |
| From 12 to 15 mm | 2 points |
| Over 15 mm | No reduction |

- For the pump selection, use the characteristic curves that refer to water at room temperature and specific weight equal to 1.0 kgf/ dm3.



## TECHNICAL DATA

| | | |
|---|---|---|
| 1 |  | Pumping of non-aggressive clear fluids. Sealing through internal source. Temperature up to 160°C. |
| 2 |  | Pumping of toxic, aggressive fluids and for pumps suctioning from a tank subject to vacuum. Sealing with clear liquid through external source. Temperature up to 105°C. |
| 3 |  | Pumping of fluids with suspended solid particles and/or when avoiding contamination from external source. Temperature up to 105°C. |
| 4 |  | Pumping of fluids with abrasive particles or particles prone to crystallization. Flushing with clear liquid from external source. Temperature up to 105°C. |
| 5 |  | Pumping of thermal oils with temperatures higher than 180°C (Rothaterm Packing). |

**The manufacturing codes 2, 3 and 4 may only be applied for models without refrigeration chamber.**

**- Volumetric flow rate of sealing liquid (l/min):**

Sealing = approximately 1 l/min

Washing = approximately from 3 to 5 l/min.

**- Pressure of external sealing liquid (bar):**

1 + DP/2 for models 32-125 and 32-160.

1 + SP for the all the other models.

DP = Discharge Pressure

SP = Suction Pressure

**The driver is performed by means of flexible coupling, with or without spacer, by:** electric motor, combustion engine, etc.

The driver may be performed by pulleys and belts as long as reinforced intermediate bearings are used.

**- Power reserve for driver in relation to power consumed by pump (HP):**

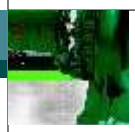
Up to 2 HP approximately 20% of reserve.

Up to 20 HP approximately 15% of reserve.

Over 20 HP approximately 10% of reserve.

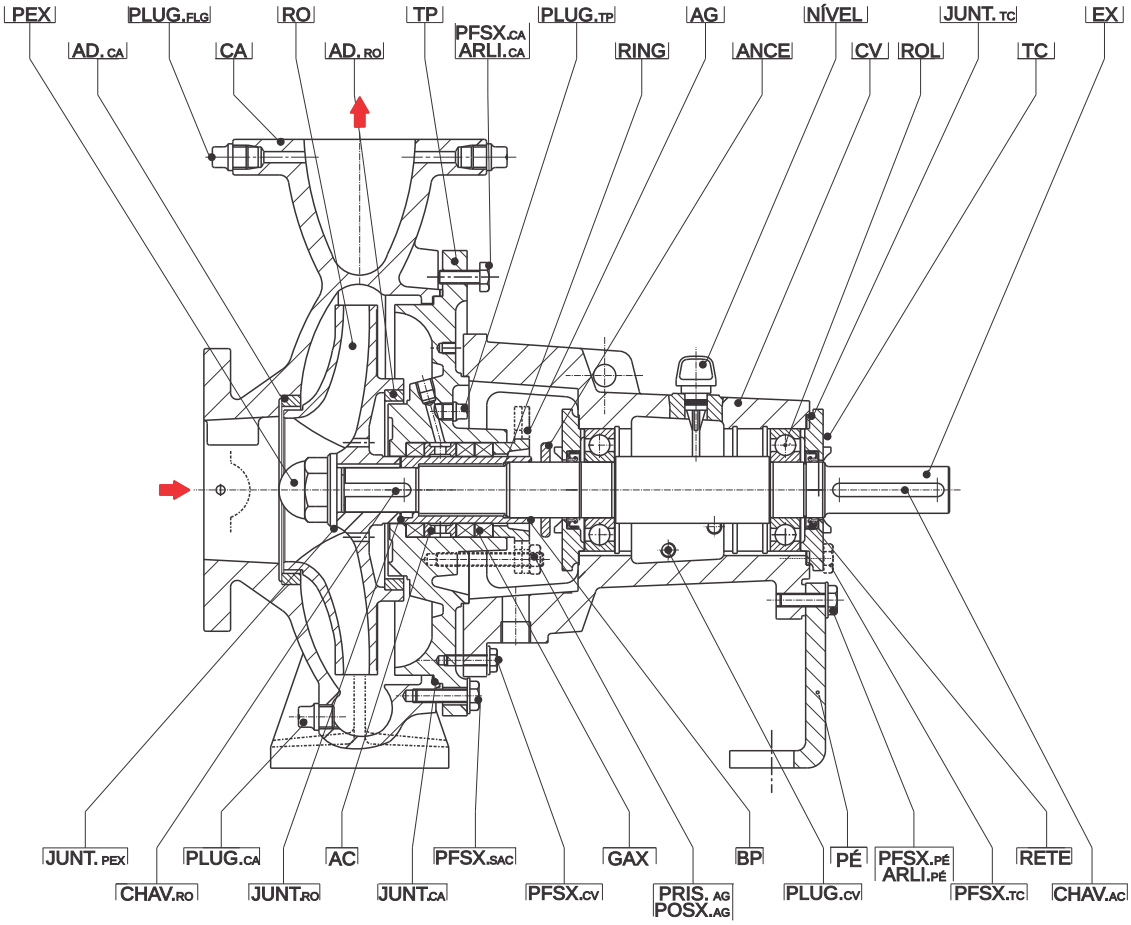
**The following accessories are optionally available:**

- IMBIL standard coupling or from other manufacturers.
- IMBIL standard coupling protector.
- IMBIL standard base, in plate or U-shaped.
- IMBIL standard counterflange.

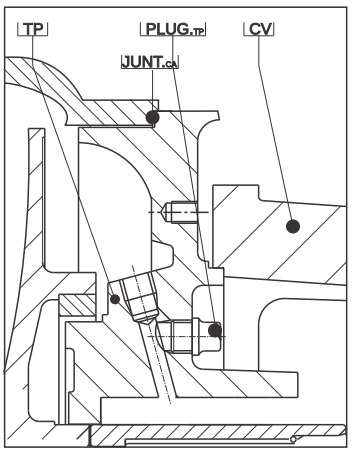


IMBIL Pumping Solutions

# CROSS SECTION AND IDENTIFICATION OF PARTS

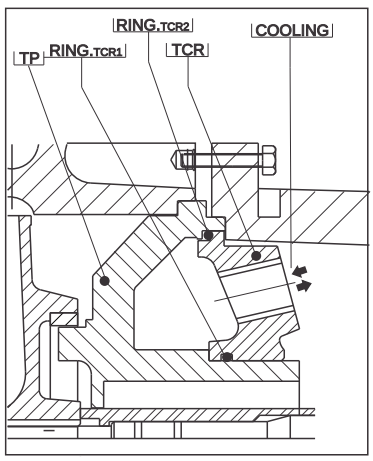


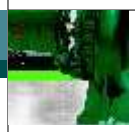

## DETAIL OF PRESSURE COVER




| For Models | | |
|---|---|---|
| I 3 0 | 32, 40, 50, 65-125 | 32, 40, 50-160 |
| I 4 0 | 65, 80-160 | |
| I 5 0 | 125, 150-200 | |
| I 6 0 | 150-315 | |

## DETAIL COOLING CHAMBER



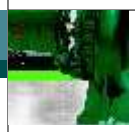


IMBIL Pumping Solutions

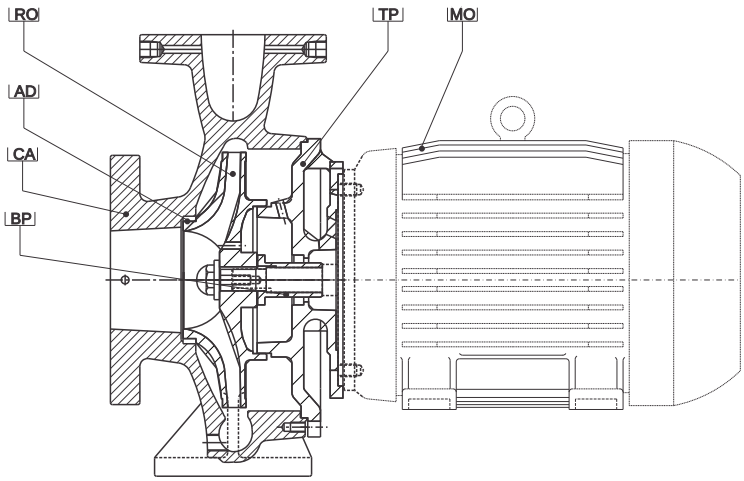
## PART LIST – INI

| Part | Denomination | Ref. | Material | Qtdy | Reference notes |
|---|---|---|---|---|---|
| AC | Lantern ring | | A48 CL30 | 1 | |
| ANCE | Centrifuge ring | | Nylon | 1 | |
| AD. CA | Volute case wear ring | | A48 CL30 | 1 | |
| AD. RO | Impeller wear ring | | A48 CL30 | 1 | |
| AF | Back ring | 1 | A48 CL30 | 1 | |
| AG | Stuffing box packing gland | | A48 CL30 | 1 | |
| ARLI. CA | Smooth washer of volute case | 2 | SAE 1020 | 8 | (1) Only applicable for sealing codes 4 and 5 |
| ARLI. PÉ | Smooth washer of feet | | SAE 1020 | 1 | |
| BP | Shaft sleeve | | SAE 1020 | 1 | |
| CA | Volute case | | A48 CL30 | 1 | |
| CV | Bearing Housing | | GG-20 | 1 | (2) Qty = 8 in models: 32/ 40/ 50/ 65/ 80/ 100-200 and 100-160 Qty. = 10 in models: 32/ 40/ 50/ 65/ 80/ 100/ 125 and 150-250 Qty. = 12 in models: 40/ 50/ 65/ 80/ 100 and 125-315 Qty. = 16 in models: 80/ 100/ 125 and 150-400 |
| CHAV. ACP | Coupling Key | | SAE 1045 | 1 | |
| CHAV. RO | Impeller key | | SAE 1045 | 1 | |
| EX | Shaft | | SAE 1045 | 1 | |
| GAXE | Packing | | Graphitized | 1 | |
| JUNT.CA | Volute case joint | | K. oilit | 1 | |
| JUNT.PEX | Shaft nut joint | | K. oilit | 1 | |
| JUNT.TC | Bearing housing cover joint | | Velumoide | 2 | |
| JUNT. RO | Impeller joint | | K. oilit | 1 | (3) Only applicable for models with refrigeration |
| RING. BP | Shaft sleeve o'ring | | Nitrilic | 1 | |
| RING. TCR1 | Refrigeration cover o'ring | 3 | Nitrilic | 1 | |
| RING. TCR2 | Refrigeration cover o'ring | 3 | Nitrilic | 1 | |
| PFSX. CA | Volute case screw | 2 | SAE 1020 | 8 | (4) Qty. = 6 for bearing housing I30 and I40. Qty. = 8 for bearing housing I50 and I60. |
| PFSX.TC | Bearing housing cover screw | | SAE 1020 | 8 | |
| PFSX.CV | Bearing housing screw | 4 | SAE 1020 | 6 | |
| PFSX PÉ | Feet screw | | SAE 1020 | 1 | |
| PFSX SAC | Cover opener screw | 5 | SAE 1020 | 1 | (5) Only applicable in models: 32/ 40/ 50/ 65/ 80/ 100-200 32/ 40/ 50/ 65/ 80/ 100/ 125/ 150-250 40/ 50/ 65/ 80/ 100 and 125-315 80/ 100/ 125 and 150-400 100-160 |
| PÉ | Feet | | GG-20 | 1 | |
| PLUG. CA | Volute case plug | | Galvanized iron | 1 | |
| PLUG. FLG | Flange plug | | Galvanized iron | 3 | |
| PLUG. TP | Pressure cover plug | | Galvanized iron | 2 | |
| PLUG. CV | Bearing housing plug | | Galvanized iron | 2 | |
| POSX. AG | Stuffing box packing gland nut | | SAE 1020 | 2 | |
| PEX | Shaft nut | | SAE 1045 | 1 | |
| PRIS. AG | Tap bolt of stuffing box | | SAE 1045 | 2 | |
| RETE | Retainer | | Nitrílica | 2 | |
| ROL | Ball bearing | | Steel | 2 | |
| RO | Impeller | | GG-20 | 1 | |
| TCR | Refrigeration chamber cover | 3 | GG-20 | 1 | |
| TP | Pressure cover | | GG-20 | 1 | |
| TC | Bearing housing cover | | GG-20 | 2 | |
| Nível | Oil dip stick | | Nylon | 1 | |

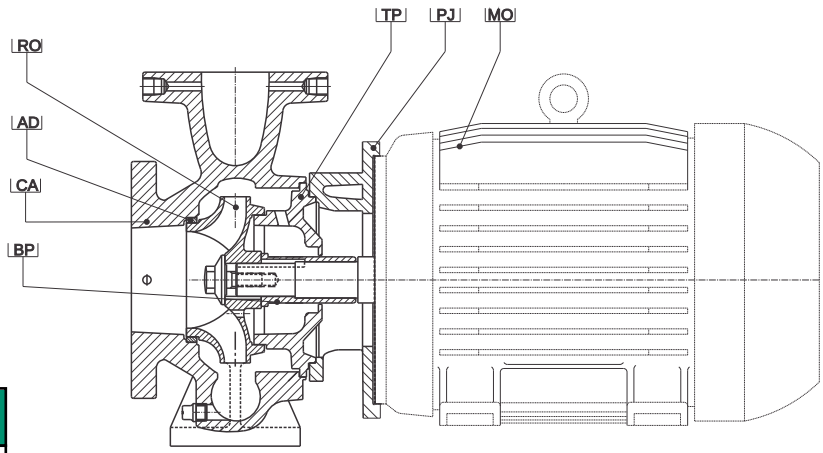
**Note:** The materials specified for the parts are for standard pumps. The parts can be manufactured in the following materials: nodular iron, carbon steel, stainless steel, bronze, aluminum and special alloys and or other material according to the purpose of the pump.



## INI-BLOC PUMP

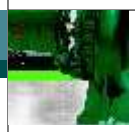



## INI-BLOC PUMP (With coupling pieces)



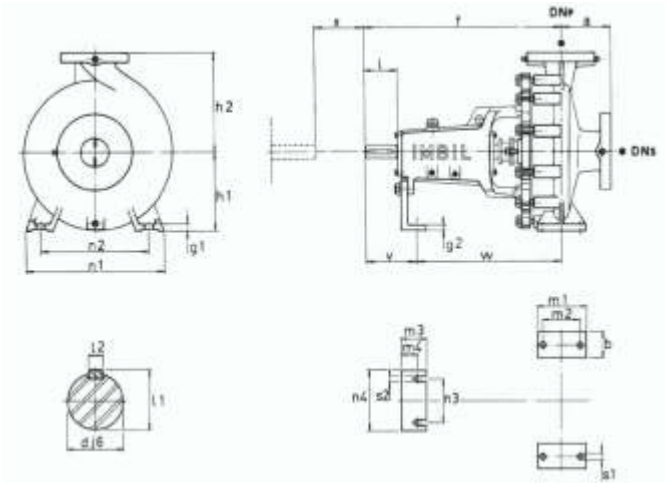

| Part | Qtdy. | Denonination |
|---|---|---|
| AD | 01 | Wear Ring |
| BP | 01 | Shaft Sleeve |
| CA | 01 | Volute Case |
| MO | 01 | Engine |
| PJ* | 01 | Coupling Piece |
| RO | 01 | Impeller |
| TP | 01 | Pressure Couver |

*** Used only some models, when required**

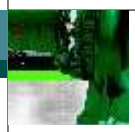


IMBIL Pumping Solutions

## BASIC DIMENSIONS (mm) – INI

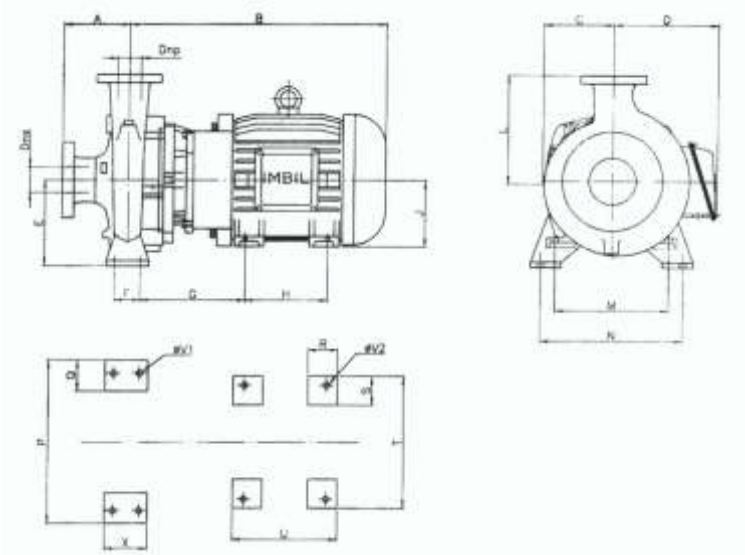



| Bearing Hosing | Models | Pump dimensions | | | | | | Feet dimensions | | | | | | | | | | | | | | Shaft End | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | DNs | DNp | a | f | $h_1$ | $h_2$ | b | $g_1$ | $g_2$ | $m_1$ | $m_2$ | $m_3$ | $m_4$ | $n_1$ | $n_2$ | $n_3$ | $n_4$ | $s_1$ | $s_2$ | v | w | $dj_6$ | l | $l_1$ | $l_2$ | x |
| I 30 | 25-150 | 32 | 25 | 73 | 400 | 112 | 160 | 50 | 15 | 6,5 | 100 | 70 | 64 | 38 | 190 | 140 | 110 | 152,4 | 14 | 14 | 118 | 282 | 24 | 50 | 26,9 | 8 | 100 |
| | 32-125.1 | 50 | 32 | 80 | 385 | 112 | 160 | | | | | | | | 190 | 140 | | | | | | | | | | | |
| | 32-160.1 | 50 | 32 | | | 132 | 160 | | | | | | | | 240 | 190 | | | | | | | | | | | |
| | 32-200.1 | 50 | 32 | | | 160 | 180 | | | | | | | | 240 | 190 | | | | | | | | | | | |
| | 32-125 | 50 | 32 | | | 112 | 160 | | | | | | | | 190 | 140 | | | | | | | | | | | |
| | 32-160 | 50 | 32 | | | 132 | 160 | | | | | | | | 240 | 190 | | | | | | | | | | | |
| | 32-200 | 50 | 32 | | | 160 | 180 | | | | | | | | 240 | 190 | | | | | | | | | | | |
| | 40-125 | 65 | 40 | | | 112 | 140 | | | | | | | | 210 | 160 | | | | | | | | | | | |
| | 40-160 | 65 | 40 | | | 132 | 160 | | | | | | | | 240 | 190 | | | | | | | | | | | |
| | 40-200 | 65 | 40 | 100 | | 160 | 180 | | | | | | | | 265 | 212 | | | | | | | | | | | |
| | 50-125 | 80 | 50 | | | 132 | 160 | | | | | | | | 240 | 190 | | | | | | | | | | | |
| | 50-160 | 80 | 50 | | | 160 | 180 | | | | | | | | 265 | 212 | | | | | | | | | | | |
| | 50-200 | 80 | 50 | | | 160 | 200 | | | | | | | | 265 | 212 | | | | | | | | | | | |
| | 65-125 | 100 | 50 | | | 160 | 180 | 65 | 18 | | 125 | 95 | | | 280 | 212 | | | | | | | | | | | |
| I 40 | 32-250.1 | 50 | 32 | 100 | 500 | 180 | 225 | 65 | 18 | 9,5 | 125 | 95 | 64,5 | 39,5 | 320 | 250 | 110 | 152,4 | 14 | 14 | 130 | 370 | 32 | 80 | 35,3 | 10 | 100 |
| | 32-250 | 50 | 32 | 100 | | 180 | 225 | | | | | | | | 320 | 250 | | | | | | | | | | | |
| | 40-250 | 65 | 40 | 100 | | 180 | 225 | | | | | | | | 320 | 250 | | | | | | | | | | | |
| | 50-250 | 80 | 50 | 125 | | 180 | 225 | | | | | | | | 320 | 250 | | | | | | | | | | | |
| | 65-160 | 100 | 65 | 125 | | 160 | 200 | | | | | | | | 280 | 212 | | | | | | | | | | | |
| | 65-200 | 100 | 65 | 100 | | 180 | 225 | | | | | | | | 320 | 250 | | | | | | | | | | | 140 |
| | 80-160 | 125 | 80 | 100 | | 180 | 225 | | | | | | | | 320 | 250 | | | | | | | | | | | |
| I 40 R | 65-250 | 100 | 65 | 125 | 500 | 200 | 250 | 80 | 18 | 9,5 | 125 | 95 | 64,5 | 39,5 | 360 | 280 | 110 | 152,4 | 18 | 14 | 130 | 370 | 32 | 80 | 35,3 | 10 | 140 |
| | 80-250 | 125 | 80 | | | 225 | 280 | | | | | | | | 400 | 315 | | | | | | | | | | | 140 |
| | 100-160 | 125 | 100 | | | 200 | 280 | | | | | | | | 360 | 280 | | | | | | | | | | | 140 |
| | 100-200 | 125 | 100 | | | 200 | 280 | | | | | | | | 360 | 280 | | | | | | | | | | | 140 |
| | 40-315 | 65 | 40 | | | 200 | 250 | | | | | | | | 345 | 280 | | | 14 | | | | | | | | 140 |
| | 50-315 | 80 | 50 | | | 225 | 280 | | | | | | | | 345 | 280 | | | | | | | | | | | 140 |
| | 80-200 | 125 | 80 | | | 180 | 250 | | | | | | | | 345 | 280 | | | | | | | | | | | 140 |
| I 50 | 65-315 | 100 | 65 | 125 | 530 | 225 | 280 | 80 | 19 | 9,5 | 160 | 120 | 61,5 | 36,5 | 400 | 315 | 110 | 152,4 | 18 | 14 | 160 | 370 | 42 | 110 | 45,1 | 12 | 140 |
| | 80-315 | 125 | 80 | 125 | | 250 | 315 | | 19 | | | | | | 400 | 315 | | | | | | | | | | | |
| | 80-400 | 125 | 80 | 125 | | 280 | 355 | | 20 | | | | | | 435 | 315 | | | | | | | | | | | |
| | 100-250 | 125 | 100 | 140 | | 225 | 280 | | 20 | | | | | | 400 | 315 | | | | | | | | | | | |
| | 100-315 | 125 | 100 | 140 | | 250 | 315 | | 18 | | | | | | 400 | 315 | | | | | | | | | | | |
| | 125-200 | 150 | 125 | 140 | | 250 | 315 | | 20 | | | | | | 400 | 315 | | | | | | | | | | | |
| | 125-250 | 150 | 125 | 140 | | 250 | 355 | | 18 | | | | | | 400 | 315 | | | | | | | | | | | |
| | 100-400 | 125 | 100 | 140 | | 280 | 355 | 100 | 20 | | 200 | 150 | | | 500 | 400 | | | 22 | | | | | | | | 180 |
| | 125-315 | 150 | 125 | 140 | | 280 | 355 | | 20 | | | | | | 500 | 400 | | | | | | | | | | | |
| | 125-400 | 150 | 125 | 140 | | 315 | 400 | | 20 | | | | | | 500 | 400 | | | | | | | | | | | |
| | 150-200 | 200 | 150 | 160 | | 280 | 375 | | 20 | | | | | | 500 | 400 | | | | | | | | | | | |
| | 150-250 | 200 | 150 | 160 | | 280 | 375 | | 20 | | | | | | 500 | 400 | | | | | | | | | | | |
| I 60 | 150-315 | 200 | 150 | 160 | 670 | 315 | 400 | 100 | 20 | 15 | 200 | 150 | | 38 | 550 | 450 | 140 | 210 | 22 | 20 | 170 | 500 | 48 | 110 | 51,1 | 14 | 180 |
| | 150-400 | 200 | 150 | | | | 400 | | | | | | | | | | | | | | | | | | | | |

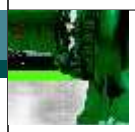


IMBIL Pumping Solutions

# BASIC DIMENSIONS (mm) – INI-BLOC




| Model | Motor | | Dimensions | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 POLOS | 2 POLOS | Dns | Dnp | A | B | C | D | E | F | G | H | J | L | M | N | P | Q | R | S | T | U | ØV1 | ØV2 | X |
| 32-125 | | 2/ 3 CV | 50 | 32 | 80 | 361 | 89 | 150 | 112 | 70 | 138 | 100 | 90 | 140 | 140 | 140 | 190 | 50 | 42 | 38 | 164 | 131 | 14 | 10 | 100 |
| | | 4 CV | | | | 386 | | | | | | 125 | | | | | | | | | | 156 | | | |
| | | 5 CV | | | | 411 | 99 | 140 | | | 135 | 140 | 100 | | 160 | | | | 50 | 44 | 188 | 173 | | 12 | |
| | | 6/ 7,5 CV | | | | 432 | 112 | | | | 142 | | 112 | | 190 | | | | | 48 | 220 | 177 | | | |
| 32-160 | | 2/ 3 CV | | | | 363 | 89 | 150 | 132 | | 140 | 100 | 90 | 160 | 140 | 190 | 240 | | 42 | 38 | 164 | 131 | | 10 | |
| | | 4 CV | | | | 388 | | | | | | 125 | | | | | | | | | | 156 | | | |
| | | 5 CV | | | | 413 | 99 | 140 | | | 137 | 140 | 100 | | 160 | | | | 50 | 44 | 188 | 173 | | 12 | |
| | | 6/ 7,5 CV | | | | 434 | 112 | | | | 144 | | 112 | | 140 | | | | | 48 | 220 | 177 | | | |
| | | 10 CV | | | | - | 135 | | | | - | | 132 | | 216 | | | | 55 | 51 | 248 | 187 | | | |
| 32-200 | 1,5/ 2 CV | | | | | 360 | 89 | 150 | 160 | | 137 | 100 | 90 | 180 | 140 | 190 | 240 | | 42 | 38 | 164 | 131 | | 10 | |
| | 3 CV | | | | | 385 | | | | | | 125 | | | | | | | | | | 156 | | | |
| | | 6/ 7,5 CV | | | | 431 | 112 | 140 | | | 141 | 140 | 112 | | 190 | | | | 50 | 48 | 220 | 177 | | 12 | |
| | | 10 CV | | | | 471 | 135 | | | | 160 | | 132 | | 216 | | | | 55 | 51 | 248 | 187 | | | |
| | | 12,5/ 15 CV | | | | 509 | | 178 | | | | 178 | | | | | | | | | | 225 | | | |
| | | 20/ 25 CV | | | | 614 | 155 | 210 | | | 205 | 210 | 160 | | 254 | | | | 65 | 64 | 308 | 256 | | 15 | |
| 32-250 | 3 CV | | | | 100 | - | 89 | 150 | 180 | 95 | - | 125 | 90 | 225 | 140 | 250 | 320 | 65 | 42 | 38 | 164 | 156 | | 10 | 125 |
| | 4 CV | | | | | | 99 | 140 | | | | 140 | 100 | | 160 | | | | 50 | 44 | 188 | 173 | | 12 | |
| | | 20/ 25 CV | | | | | 155 | 210 | | | | 210 | 160 | | 254 | | | | 65 | 64 | 308 | 256 | | 15 | |
| | | 30 CV | | | | | 177 | 241 | | | | 241 | 180 | | 279 | | | | 75 | 80 | 350 | 294 | | | |
| | | 40 CV | | | | | 195 | 267 | | | | 267 | 200 | | 318 | | | | 85 | 82 | 385 | 332 | | 19 | |
| 40-125 | | 4 CV | 65 | 40 | 80 | 387 | 89 | 150 | 112 | 70 | 139 | 125 | 90 | 140 | 140 | 160 | 210 | 50 | 42 | 38 | 164 | 156 | | 10 | 100 |
| | | 5 CV | | | | 412 | 99 | 140 | | | 136 | | 100 | | 140 | | | | 50 | 44 | 188 | 173 | | 12 | |
| | | 6/ 7,5 CV | | | | 433 | 112 | | | | 143 | | 112 | | 190 | | | | | 48 | 220 | 177 | | | |
| | | 10 CV | | | | 473 | 135 | | | | 162 | | 132 | | 216 | | | | 55 | 51 | 248 | 187 | | | |
| 40-160 | 1,5/ 2 CV | | | | | 364 | 89 | 150 | 132 | | 140 | 100 | 90 | 160 | 140 | 190 | 240 | | 42 | 38 | 164 | 131 | | 10 | |
| | | 10 CV | | | | 476 | 135 | 140 | | | 164 | 140 | 132 | | 216 | | | | 55 | 51 | 248 | 187 | | 12 | |
| | | 12,5/ 15 CV | | | | 514 | | 178 | | | | 178 | | | | | | | | | | 225 | | | |
| | | 20 CV | | | | 616 | 155 | | | | 206 | 210 | 160 | | 254 | | | | 65 | 64 | 308 | 256 | | 15 | |
| 40-200 | 3 CV | | | | 100 | 385 | 89 | 150 | 160 | | 137 | 125 | 90 | 180 | 140 | 212 | 265 | | 42 | 38 | 164 | 156 | | 10 | |
| | 4 CV | | | | | 514 | 99 | 140 | | | 134 | 140 | 100 | | 160 | | | | 50 | 44 | 188 | 173 | | 12 | |
| | | 20/ 25 CV | | | | 614 | 155 | 210 | | | 205 | 210 | 160 | | 254 | | | | 65 | 64 | 308 | 256 | | 15 | |
| | | 30 CV | | | | 677 | 177 | 241 | | | 218 | 241 | 180 | | 279 | | | | 75 | 80 | 350 | 294 | | | |
| 40-250 | 4/ 5 CV | | | | 100 | 408 | 99 | 140 | 180 | 95 | 120 | 140 | 100 | 225 | 160 | 250 | 320 | 65 | 50 | 44 | 188 | 173 | | 12 | 125 |
| | 6 CV | | | | | 429 | 112 | | | | 127 | | 212 | | 190 | | | | | 48 | 220 | 177 | | | |
| | | 25 CV | | | | - | 155 | 210 | | | - | 210 | 160 | | 254 | | | | 65 | 64 | 308 | 256 | | 15 | |
| | | 30 CV | | | | 678 | 177 | 241 | | | 207 | 241 | 180 | | 279 | | | | 75 | 80 | 350 | 294 | | | |
| | | 40 CV | | | | 744 | 195 | 267 | | | 219 | 267 | 200 | | 318 | | | | 85 | 82 | 385 | 332 | | 19 | |
| | | 50 CV | | | | 782 | | 305 | | | | 305 | | | | | | | | | | 370 | | | |



IMBIL Pumping Solutions

# BASIC DIMENSIONS (mm) – INI-BLOC

| Model | Motor | | Dimensions | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 POLOS | 2 POLOS | Dns | Dnp | A | B | C | D | E | F | G | H | J | L | M | N | P | Q | R | S | T | U | ∅V1 | ∅V2 | X |
| 50-125 | 1/ 1,5 CV | | 80 | 50 | 100 | - | 89 | 150 | 132 | 70 | - | 100 | 90 | 160 | 140 | 190 | 240 | 50 | 42 | 38 | 164 | 131 | 14 | 10 | 100 |
| | | 10 CV | | | | 476 | 135 | 140 | | | 165 | 140 | 132 | | 216 | | | | 55 | 51 | 248 | 187 | | 12 | |
| | | 12,5/ 15 CV | | | | 514 | | 178 | | | | 178 | | | | | | | | | | 225 | | | |
| 50-160 | 3 CV | | | | | - | 89 | 150 | 160 | | - | 125 | 90 | 180 | 140 | 212 | 265 | | 42 | 38 | 164 | 156 | | 10 | |
| | 4 CV | | | | | | 99 | 140 | | | | 140 | 100 | | 160 | | | | 50 | 44 | 188 | 173 | | 12 | |
| | | 20/ 25 CV | | | | 616 | 155 | 210 | | | 207 | 210 | 160 | | 254 | | | | 65 | 64 | 308 | 256 | | 15 | |
| 50-200 | 4/ 5 CV | | | | | 411 | 99 | 140 | | | 135 | 140 | 100 | 200 | 160 | | | | 50 | 44 | 188 | 173 | | 12 | |
| | 6 CV | | | | | 432 | 112 | | | | 142 | | 112 | | 190 | | | | | 48 | 220 | 177 | | | |
| | | 25 CV | | | | 615 | 155 | 210 | | | 206 | 210 | 160 | | 254 | | | | 65 | 64 | 308 | 256 | | 15 | |
| | | 30 CV | | | | 678 | 177 | 241 | | | 219 | 241 | 180 | | 279 | | | | 75 | 80 | 350 | 294 | | | |
| | | 40 CV | | | | 744 | 195 | 267 | | | 231 | 267 | | | 318 | | | | 85 | 82 | 385 | 332 | | 19 | |
| 50-250 | 6 CV | | | | 125 | - | 112 | 140 | 180 | 95 | - | 140 | 112 | 225 | 190 | 250 | 320 | 65 | 50 | 48 | 220 | 177 | | 12 | 125 |
| | 7,5/ 10 CV | | | | | 474 | 135 | | | | 150 | | 132 | 280 | 216 | 280 | 345 | | 55 | 51 | 248 | 187 | | | |
| 50-315 | 10 CV | | | | | 470 | | 140 | 225 | | 146 | 140 | | | | | | | | | | | | | |
| | 12,5/ 15 CV | | | | | 508 | | 178 | | | | 178 | | | | | | | | | | 225 | | | |
| | 20 CV | | | | | - | 155 | 210 | | | - | 210 | 160 | | 254 | | | | 65 | 64 | 308 | 256 | | 15 | |
| 65-125 | 2 CV | | 100 | 65 | 100 | - | 89 | 150 | 160 | 95 | - | 100 | 90 | 180 | 140 | 212 | 280 | 65 | 42 | 38 | 164 | 131 | | 10 | |
| | | 15 CV | | | | | 135 | 178 | | | | 178 | 132 | | 216 | | | | 55 | 51 | 248 | 225 | | 12 | |
| | | 20 CV | | | | 314 | 155 | 210 | | | 193 | 210 | 160 | | 254 | | | | | 64 | 308 | 256 | | 15 | |
| 65-160 | 4 CV | | | | | 414 | 99 | 140 | | | 125 | 140 | 100 | 200 | 160 | | | | 50 | 44 | 188 | 173 | | 12 | |
| | | 25 CV | | | | 622 | 155 | 210 | | | 196 | 210 | 160 | | 254 | | | | 65 | 64 | 308 | 256 | | 15 | |
| | | 30 CV | | | | 679 | 177 | 241 | | | 209 | 241 | 180 | | 279 | | | | 75 | 80 | 350 | 294 | | | |
| | | 40 CV | | | | 745 | 195 | 267 | | | 211 | 267 | 200 | | 318 | | | | 85 | 82 | 385 | 332 | | 19 | |
| 65-200 | 4/ 5 CV | | | | | - | 99 | 140 | 180 | | - | 140 | 100 | 225 | 160 | 250 | 320 | | 50 | 44 | 188 | 173 | | 12 | |
| | 6 CV | | | | | | 122 | | | | | | 112 | | 190 | | | | | 48 | 220 | 177 | | | |
| | 7,5/ 10 CV | | | | | | 135 | | | | | | 132 | | 216 | | | | 55 | 51 | 248 | 187 | | | |
| | | 30 CV | | | | | 177 | 241 | | | | 241 | 180 | | 279 | | | | 75 | 80 | 350 | 294 | | 15 | |
| | | 40 CV | | | | | 195 | 267 | | | | 267 | 200 | | 318 | | | | 85 | 82 | 385 | 332 | | 19 | |
| | | 50 CV | | | | | | 305 | | | | 305 | | | | | | | | | | 370 | | | |
| 65-250 | 7,5/ 10 CV | | 125 | 80 | 125 | 472 | 135 | 140 | 200 | 120 | 136 | 140 | 132 | 250 | 216 | 280 | 360 | 80 | 55 | 51 | 248 | 187 | 18 | 12 | 160 |
| | 12,5/ 15 CV | | | | | 510 | | 178 | | | | 178 | | | | | | | | | | 225 | | | |
| 65-315 | 15 CV | | | | | - | | | 225 | | - | | | | | | | | | | | | | | |
| | 20 CV | | | | | 604 | 155 | 210 | | | 170 | 210 | 160 | 280 | 254 | 315 | 400 | | 65 | 64 | 308 | 256 | | 15 | |
| | 25/ 30 CV | | | | | 667 | 177 | 241 | | | 183 | 241 | 180 | | 279 | | | | 75 | 80 | 350 | 294 | | | |
| 80-160 | 5 CV | | | | | - | 99 | 140 | 180 | 95 | - | 140 | 100 | 225 | 160 | 250 | 320 | 65 | 50 | 44 | 188 | 173 | 14 | 12 | 125 |
| | 6 CV | | | | | | 112 | | | | | | 112 | | 190 | | | | | 48 | 220 | 177 | | | |
| | 7,5 CV | | | | | | 135 | | | | | | 135 | | 216 | | | | 55 | 51 | 248 | 187 | | | |
| 80-200 | 6 CV | | | | | | 112 | | 200 | | | | 112 | 250 | 190 | 280 | | | 50 | 48 | 220 | 177 | | | |
| | 7,5/ 10 CV | | | | | | | | | | | | | | 216 | | | | | | | 187 | | | |
| | 12,5/ 15 CV | | | | | | 135 | 178 | | | | 178 | 132 | | | | | | 55 | 51 | 248 | 225 | | | |
| 80-250 | 12,5/ 15 CV | | | | | 502 | | | 225 | | 128 | | | 280 | | | | | | | | | | | |
| | 20 CV | | | | | 604 | 155 | 210 | | | 170 | 210 | 160 | | 254 | | | | 65 | 64 | 308 | 256 | | 15 | |
| 80-315 | 25/ 30 CV | | | | | 674 | 177 | 241 | 250 | | 190 | 241 | 180 | 315 | 279 | 315 | 400 | | 75 | 80 | 350 | 294 | | | |
| | 40 CV | | | | | 740 | 195 | 267 | | | 202 | 267 | 200 | | 305 | | | | 85 | 82 | 385 | 332 | | 19 | |
| | 50 CV | | | | | 778 | | 305 | | | | 305 | | | | | | | | | | 370 | | | |
| 100-200 | 12,5/ 15 CV | | | 100 | | 604 | 135 | 178 | 200 | 120 | 230 | 178 | 132 | 280 | 216 | 280 | 360 | 80 | 55 | 51 | 248 | 225 | 18 | 12 | 160 |
| | 20 CV | | | | | | 155 | 210 | | | | 210 | 160 | | 254 | | | | 65 | 64 | 308 | 256 | | 15 | |
| 100-250 | 20 CV | | | | 140 | - | | | 225 | | - | | | 315 | | 315 | 400 | | | | | | | | |
| | 25/ 30 CV | | | | | | 177 | 241 | | | | 241 | 180 | | 279 | | | | 75 | 80 | 350 | 294 | | | |
| 100-315 | 40 CV | | | | | | 195 | 267 | 250 | | | 267 | 200 | | 318 | | | | 85 | 82 | 385 | 332 | | 19 | |
| | 50 CV | | | | | | | 305 | | | | 305 | | | | | | | | | | 370 | | | |
| | 60 CV | | | | | | 243 | 280 | | | | 286 | 225 | | 356 | | | | 105 | 80 | 436 | 391 | | | |
| 100-400 | 75 CV | | | | | 830 | | | 280 | 150 | 199 | | | 355 | | 400 | 500 | 100 | | | | | 22 | | 200 |
| 125-200 | 20 CV | | 150 | 125 | | 610 | 155 | 210 | 250 | 120 | 176 | 210 | 160 | 315 | 254 | 315 | 400 | 80 | 65 | 64 | 308 | 256 | 18 | 15 | 160 |
| | 25 CV | | | | | | 177 | 241 | | | | 241 | 180 | | 279 | | | | 75 | 80 | 350 | 294 | | | |
| 125-250 | 25/ 30 CV | | | | | - | | | | | - | | | 355 | | | | | | | | | | | |
| | 40 CV | | | | | | 195 | 267 | | | | 267 | | | 318 | | | | 85 | 82 | 385 | 332 | | 19 | |
| | 50 CV | | | | | | | 305 | | | | 305 | | | | | | | | | | 370 | | | |
| 150-200 | 20 CV | | 200 | 150 | 160 | | 155 | 210 | 280 | 150 | | 210 | 160 | 375 | 254 | 450 | 550 | 100 | 65 | 64 | 308 | 256 | 22 | 15 | 200 |
| | 25/ 30 CV | | | | | 668 | 177 | 241 | | | 169 | 241 | 180 | | 279 | | | | 75 | 80 | 350 | 294 | | | |
| 150-250 | 40 CV | | | | | - | 195 | 267 | | | - | 267 | 200 | | 315 | 400 | 500 | | 85 | 82 | 385 | 332 | | 19 | |
| | 50 CV | | | | | - | | 305 | | | | 305 | | | | | | | | | | 370 | | | |
| | 60 CV | | | | | - | 243 | 286 | | | | 286 | 225 | | 356 | | | | 105 | 80 | 436 | 391 | | | |

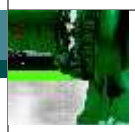
Notes:

1 – Models with engine with power different from those described above may be supplied, for such orders, please, contact IMBIL.

2 –The following models are available with Threaded Suction/Pressure:

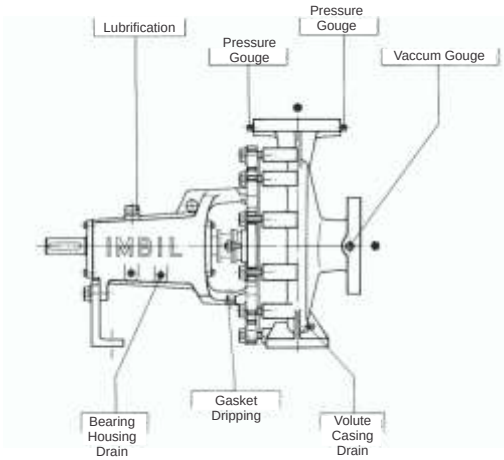
32-125, 32-160, 32-200,40-125,40-160,40-200,50-125 and 65-160.

3 – Consult IMBIL for any missing dimensions.

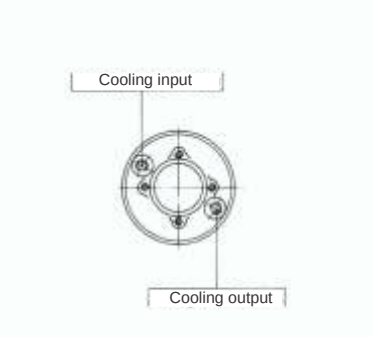


IMBIL Pumping Solutions

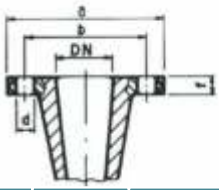
## CONNECTION SIZES AND FLANGE TABLE



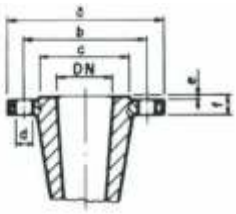

Detail of the cooling cap



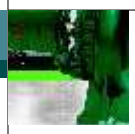

| Connection / Denomination | BSP screw threads | | | | |
|---|---|---|---|---|---|
| | I 30 | I 40 | I 40 R | I 50 | I60 |
| Pressure gauge | 3/8" | 3/8" | 3/8" | 1/2" | 1/2" |
| Pressure/Vacuum Meter | 3/8" | 3/8" | 3/8" | 1/2" | 1/2" |
| Volute case drain | 3/8" | 3/8" | 3/8" | 1/2" | 1/2" |
| Bearing Housing Drain | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" |
| Lubrication | - | - | - | - | - |
| Dripping | 1/2" | 1/2" | 1/2" | 3/4" | 3/4" |
| Inlet refrigeration | 1/2" | 1/2" | 1/2" | 1/2" | 1/2" |
| Outlet refrigerarion | 1/2" | 1/2" | 1/2" | 1/2" | 1/2" |




| | ANSI B 16.1FF Standard | a | b | d | f | Number of holes |
|---|---|---|---|---|---|---|
| 25 | 125 Lb | 108 | 79 | 16 | 11 | 4 |
| | 250 Lb | 124 | 89 | 19 | 18 | 4 |
| 32 | 125 Lb | 117 | 89 | 16 | 13 | 4 |
| | 250 Lb | 133 | 98 | 19 | 17 | 4 |
| 40 | 125 Lb | 127 | 98 | 16 | 14 | 4 |
| | 250 Lb | 155 | 114 | 22 | 19 | 4 |
| 50 | 125 Lb | 152 | 120 | 19 | 16 | 4 |
| | 250 Lb | 165 | 127 | 19 | 20 | 8 |
| 65 | 125 Lb | 178 | 140 | 19 | 17 | 4 |
| | 250 Lb | 190 | 149 | 22 | 24 | 8 |
| 80 | 125 Lb | 190 | 152 | 19 | 19 | 4 |
| | 250 Lb | 209 | 168 | 22 | 27 | 8 |
| 100 | 125 Lb | 228 | 190 | 19 | 24 | 8 |
| | 250 Lb | 254 | 200 | 22 | 30 | 8 |
| 125 | 125 Lb | 254 | 216 | 22 | 24 | 8 |
| | 250 Lb | 279 | 235 | 22 | 35 | 8 |
| 150 | 125 Lb | 279 | 241 | 22 | 25 | 8 |
| | 250 Lb | 317 | 270 | 22 | 36 | 12 |
| 200 | 125 Lb | 343 | 298 | 22 | 28 | 8 |
| | 250 Lb | 381 | 330 | 25 | 41 | 12 |




| | ANSI B 16.1FF Standard | a | b | c | d | e | f | Number of holes |
|---|---|---|---|---|---|---|---|---|
| 25 | 150 Lb | 110 | 79,4 | 50,8 | 16 | 2,0 | 14,7 | 4 |
| | 300 Lb | 125 | 88,9 | 50,8 | 19 | 2,0 | 17,9 | 4 |
| 32 | 150 Lb | 115 | 88,9 | 63,5 | 16 | 2,0 | 16,3 | 4 |
| | 300 Lb | 135 | 98,4 | 63,5 | 19 | 2,0 | 19,5 | 4 |
| 40 | 150 Lb | 125 | 98,4 | 73,0 | 16 | 2,0 | 17,9 | 4 |
| | 300 Lb | 155 | 114,3 | 73,0 | 22 | 2,0 | 21,1 | 4 |
| 50 | 150 Lb | 150 | 120,7 | 92,1 | 19 | 2,0 | 19,5 | 4 |
| | 300 Lb | 165 | 127,0 | 92,1 | 19 | 2,0 | 22,7 | 8 |
| 65 | 150 Lb | 180 | 139,7 | 104,8 | 19 | 2,0 | 22,7 | 4 |
| | 300 Lb | 190 | 149,2 | 104,8 | 22 | 2,0 | 25,9 | 8 |
| 80 | 150 Lb | 190 | 125,4 | 127,0 | 19 | 2,0 | 24,3 | 4 |
| | 300 Lb | 210 | 168,3 | 127,0 | 22 | 2,0 | 29,0 | 8 |
| 100 | 150 Lb | 230 | 190,5 | 157,2 | 19 | 2,0 | 24,3 | 8 |
| | 300 Lb | 255 | 200,0 | 157,2 | 22 | 2,0 | 32,2 | 8 |
| 125 | 150 Lb | 255 | 215,9 | 185,7 | 22 | 2,0 | 24,3 | 8 |
| | 300 Lb | 280 | 235,0 | 185,7 | 22 | 2,0 | 35,4 | 8 |
| 150 | 150 Lb | 280 | 241,3 | 215,9 | 22 | 2,0 | 25,9 | 8 |
| | 300 Lb | 320 | 269,9 | 215,9 | 22 | 2,0 | 37,0 | 12 |
| 200 | 150 Lb | 345 | 298,5 | 269,9 | 22 | 2,0 | 29,0 | 8 |
| | 300 Lb | 380 | 330,2 | 269,9 | 25 | 2,0 | 41,7 | 12 |



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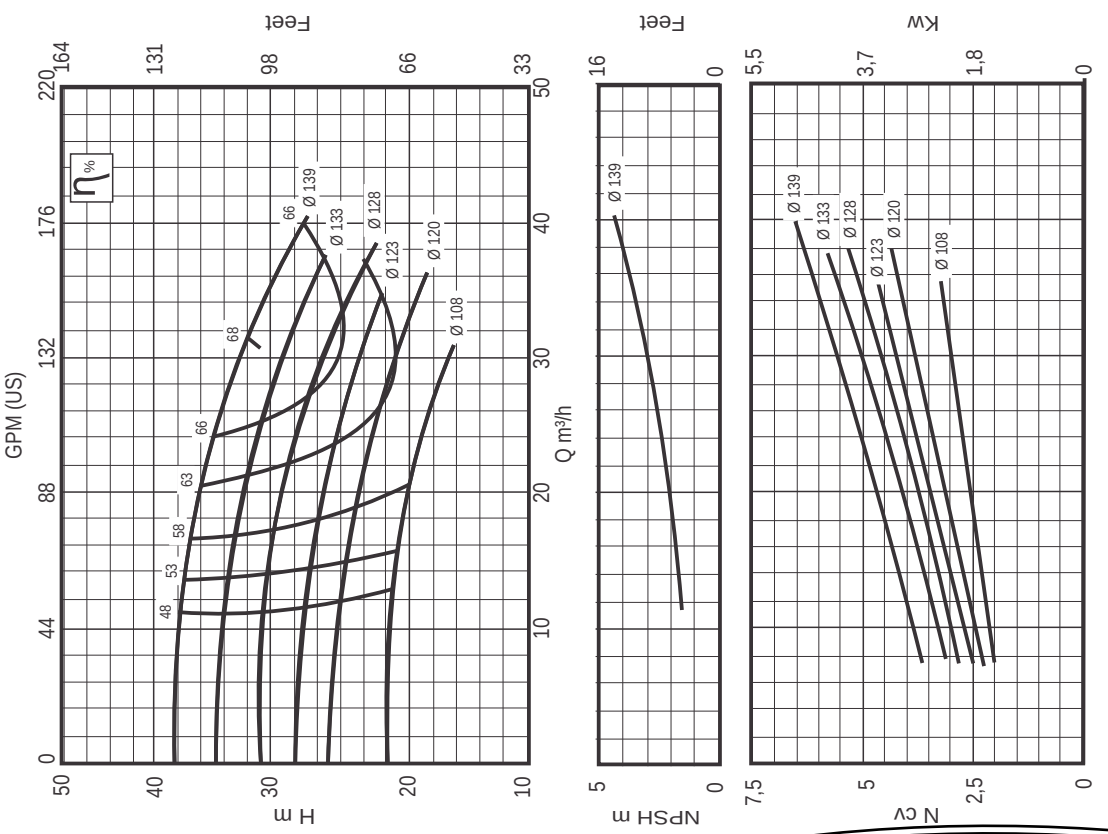
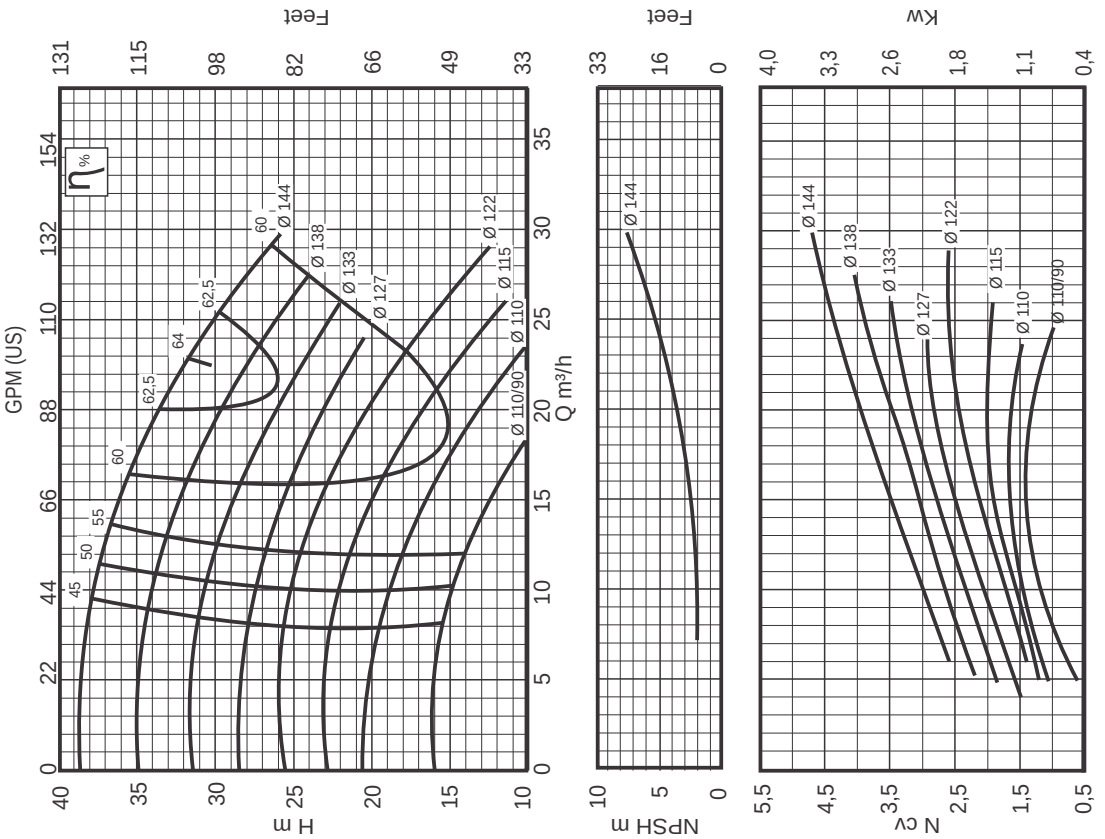
## INI 32-125 — 3500 rpm




**Impeller Ø Max. 139 mm**
**Impeller Ø Min. 108 mm**
**Impeller of Width 9 mm**
**Viscosity μ = 1cP**

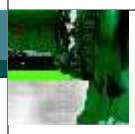
**Suction Flange 50 mm**
**Pressure Flange 32 mm**
**Specific Weigth γ= 1kgf/dm³**

## INI 32-125.1 — 3500 rpm




**Impeller Ø Max. 144 mm**
**Impeller Ø Min. 110/90 mm**
**Impeller of Width 9 mm**
**Viscosity μ = 1cP**

**Suction Flange 50 mm**
**Pressure Flange 32 mm**
**Specific Weigth γ= 1kgf/dm³**



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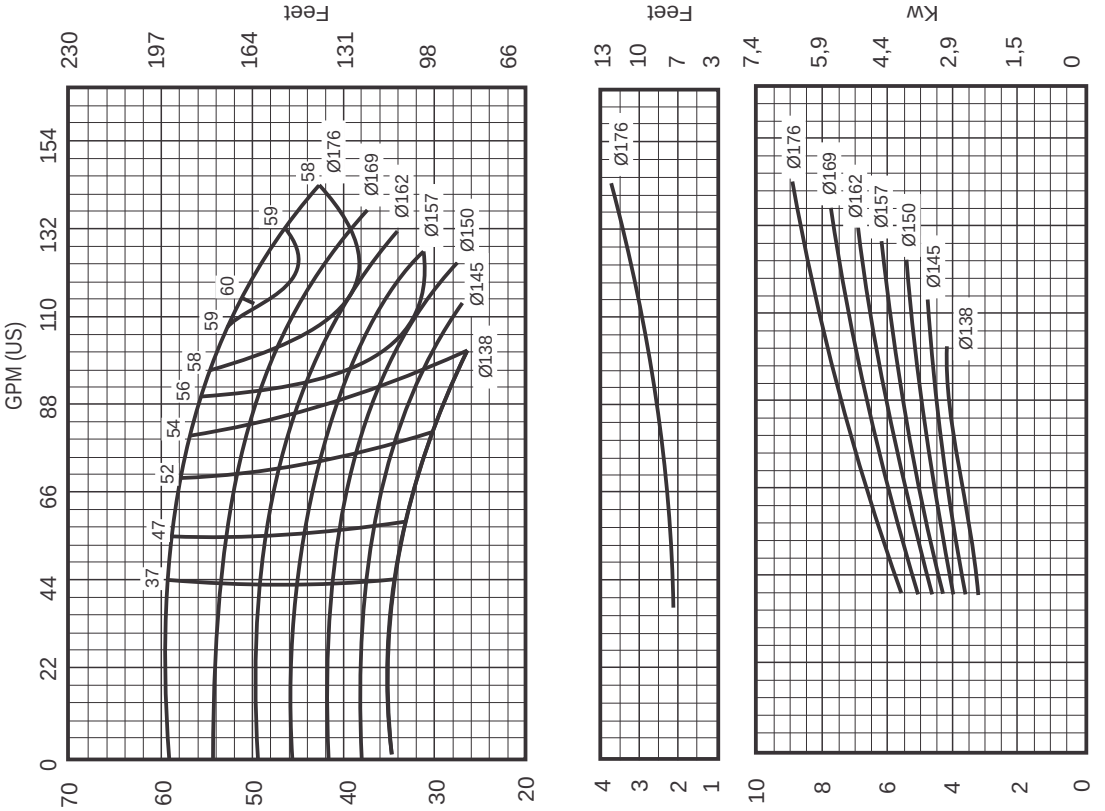
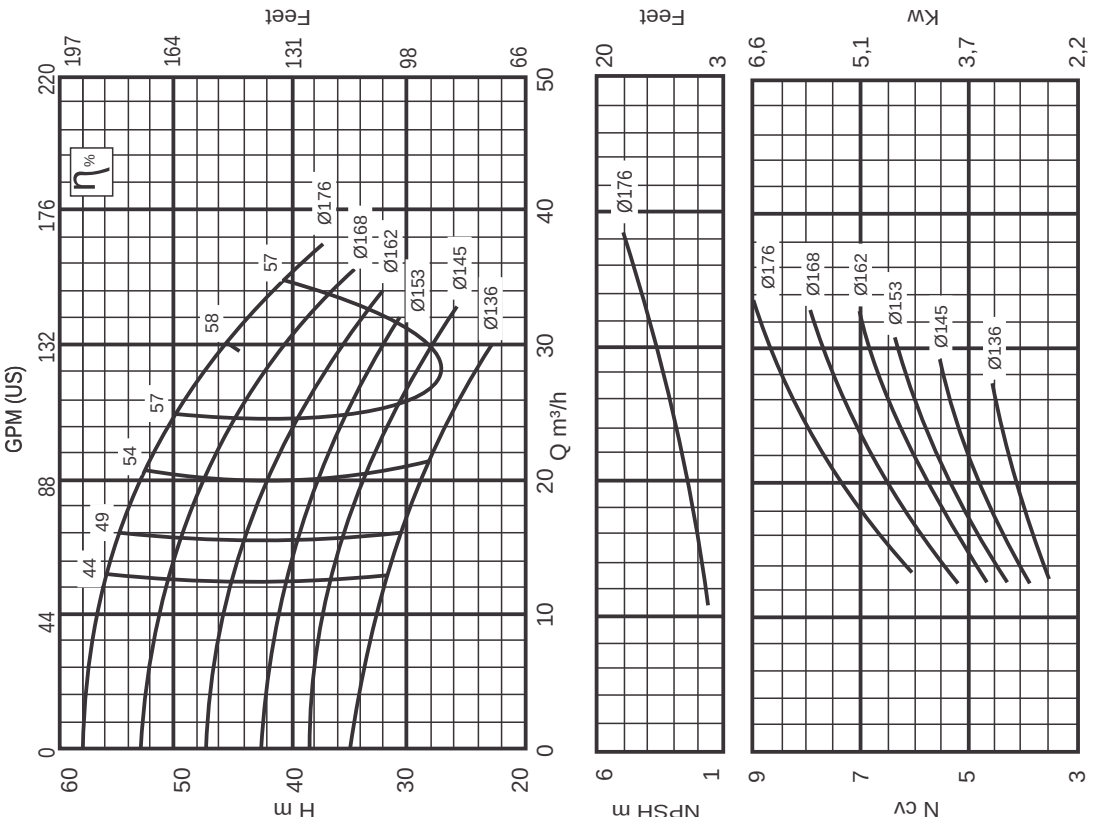
## INI 32-160.1 — 3500 rpm




**Suction Flange 50 mm**
**Pressure Flange 32 mm**
**Specific Weigth y= 1kgf/dm³**

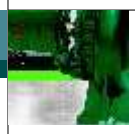
**Impeller Ø Max. 176 mm**
**Impeller Ø Min. 138 mm**
**Viscosity μ = 1cP**

## INI 32-160 — 3500 rpm




**Suction Flange 50 mm**
**Pressure Flange 32 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 176 mm**
**Impeller Ø Min. 136 mm**
**Impeller of Width 5 mm**
**Viscosity μ = 1cP**



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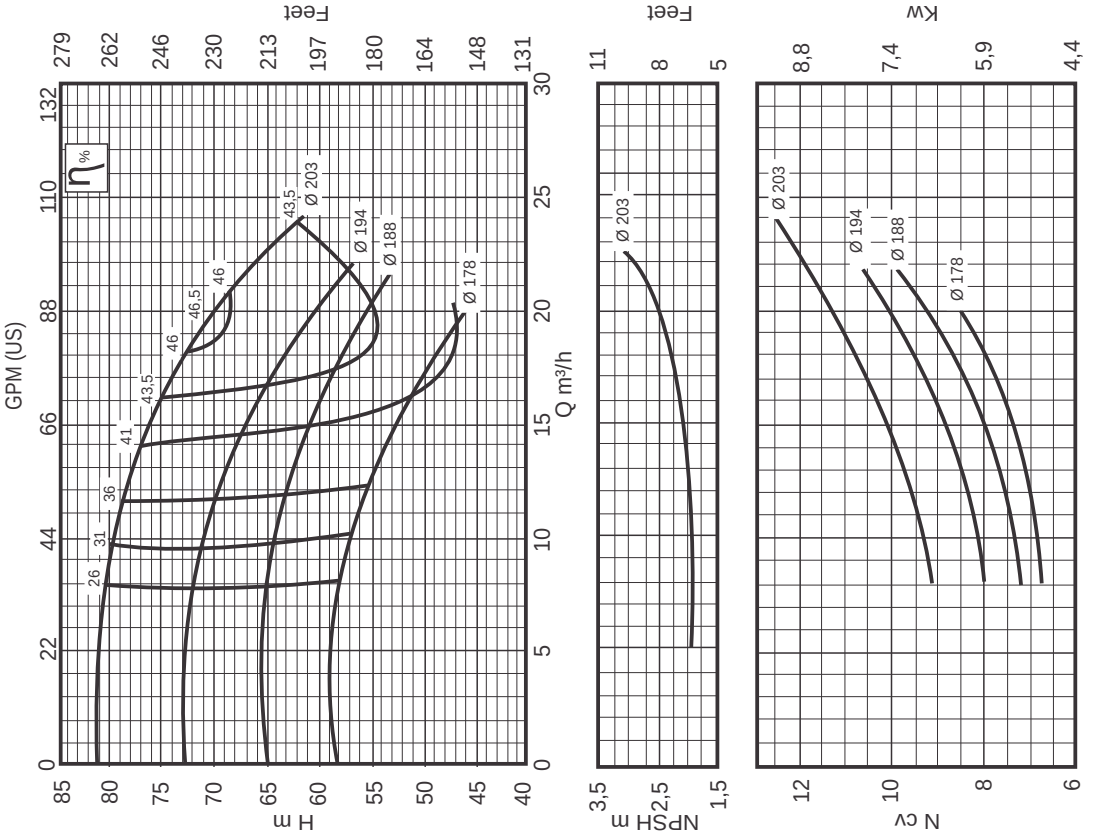
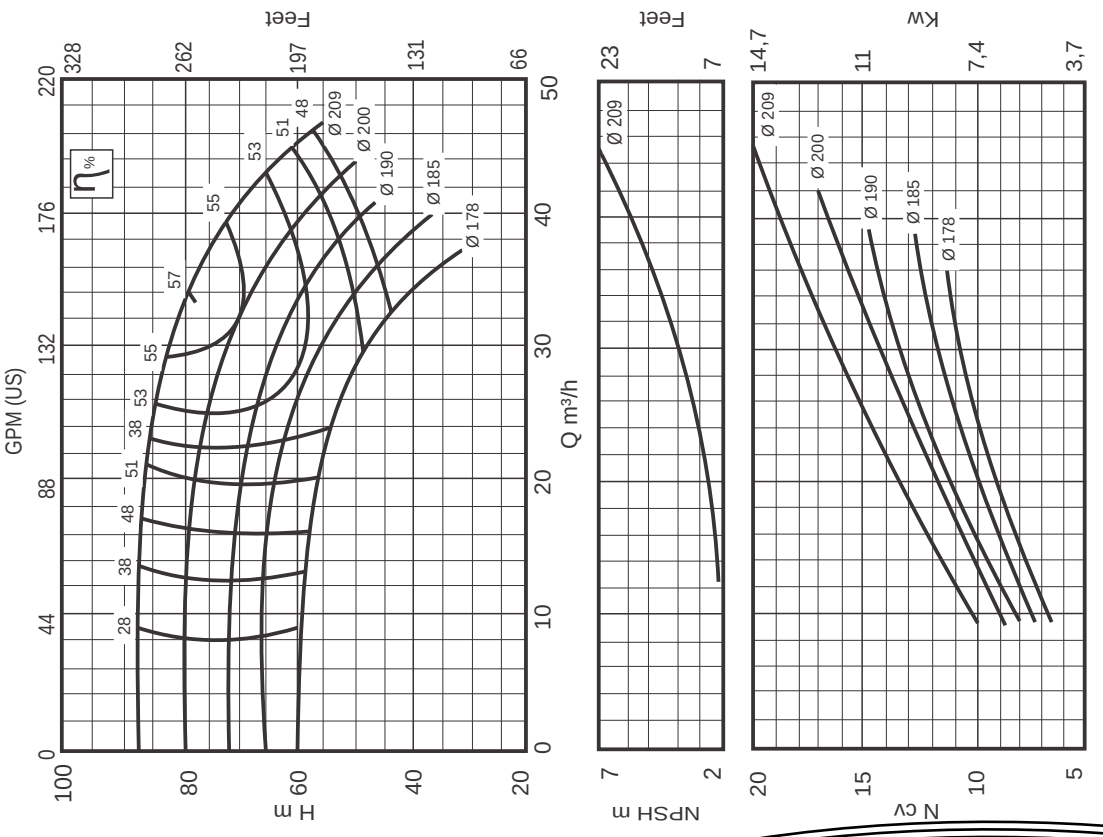
## INI 32-200.1 — 3500 rpm




**Impeller Ø Max. 203 mm**
**Impeller Ø Min. 178 mm**
**Viscosity μ = 1cP**

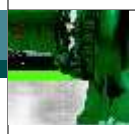
**Suction Flange 50 mm**
**Pressure Flange 32 mm**
**Specific Weigth γ= 1kgf/dm³**

## INI 32-200 — 3500 rpm




**Impeller Ø Max. 209 mm**
**Impeller Ø Min. 178 mm**
**Impeller of Width 6 mm**
**Viscosity μ = 1cP**

**Suction Flange 50 mm**
**Pressure Flange 32 mm**
**Specific Weigth γ= 1kgf/dm³**



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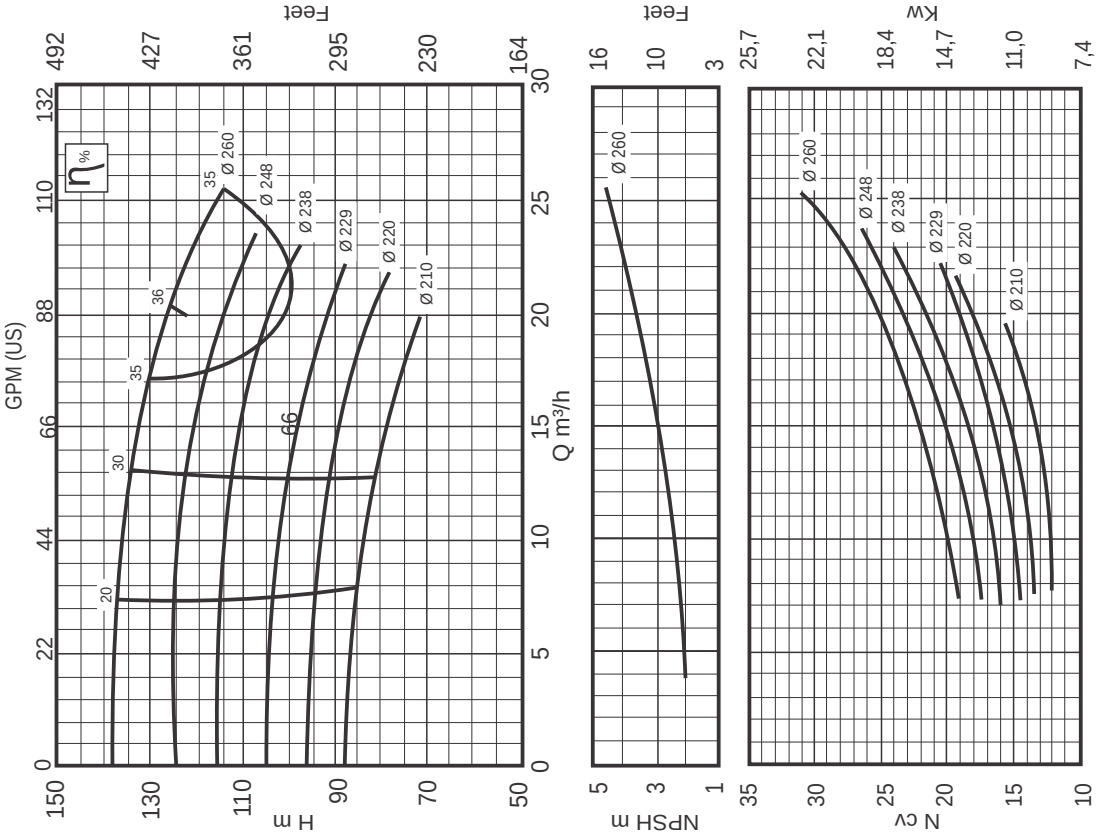
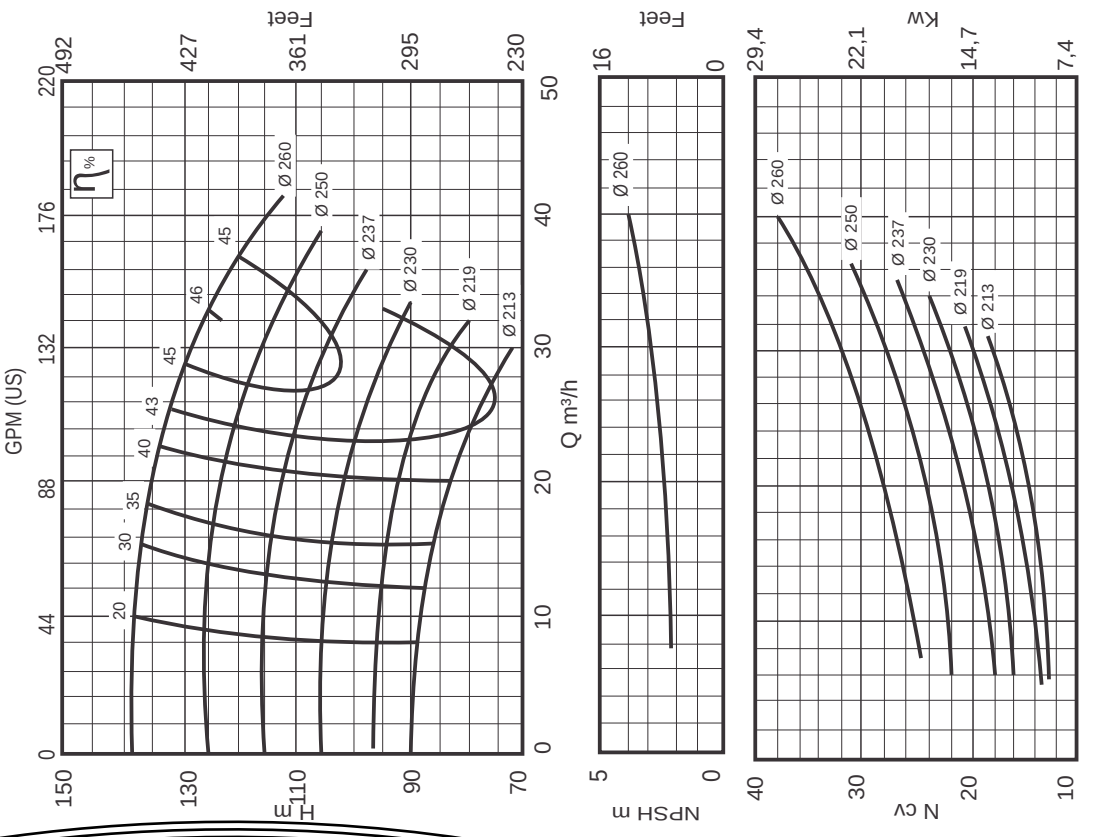
## INI 32-250.1 — 3500 rpm




**Suction Flange 50 mm**
**Pressure Flange 32 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 260 mm**
**Impeller Ø Min. 210 mm**
**Viscosity μ = 1cP**

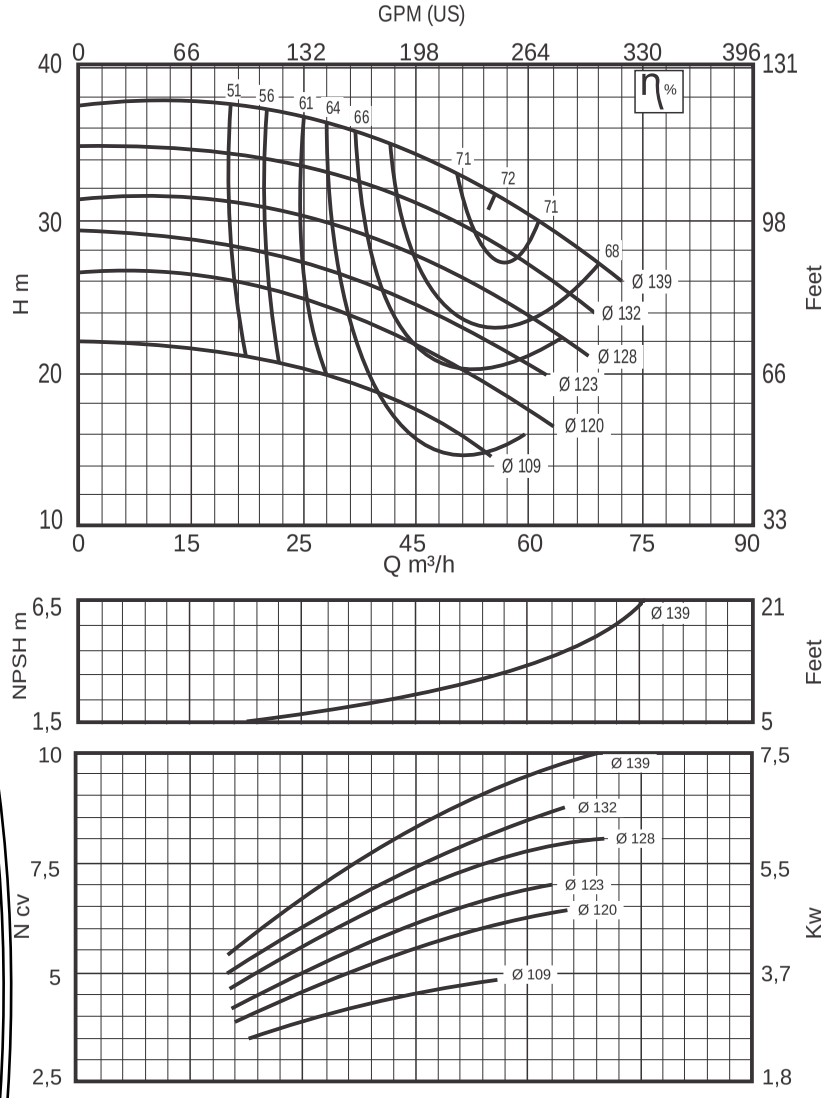
## INI 32-250 — 3500 rpm




**Suction Flange 50 mm**
**Pressure Flange 32 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 260 mm**
**Impeller Ø Min. 213 mm**
**Impeller of Width 8 mm**
**Viscosity μ = 1cP**

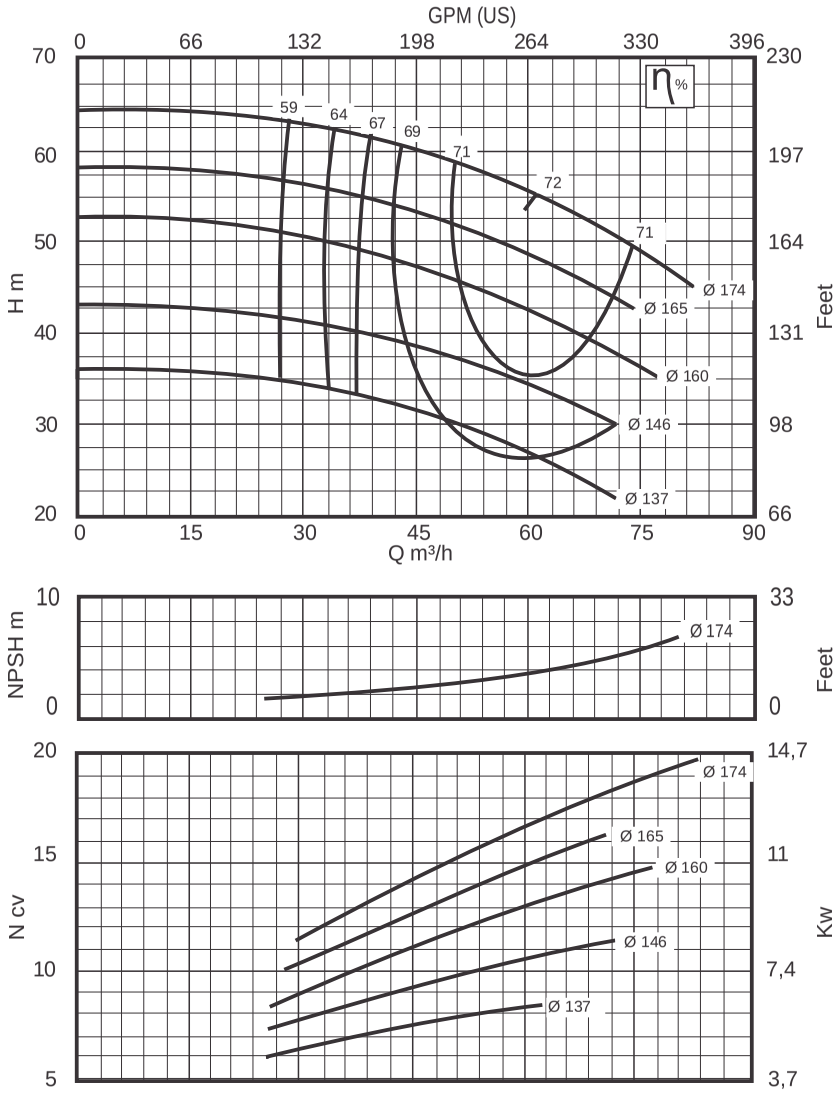
## INI 40-125 — 3500 rpm




**Impeller Ø Max. 139 mm**
Impeller Ø Min. 109 mm
Impeller of Width 14 mm
Viscosity μ = 1cP

**Suction Flange 65 mm**
Pressure Flange 40 mm
Specific Weigth y= 1kgf/dm³

## INI 40-160 — 3500 rpm




**Impeller Ø Max. 174 mm**
Impeller Ø Min. 137 mm
Impeller of Width 12 mm
Viscosity μ = 1cP

**Suction Flange 65 mm**
Pressure Flange 40 mm
Specific Weigth y= 1kgf/dm³

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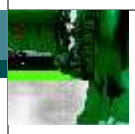

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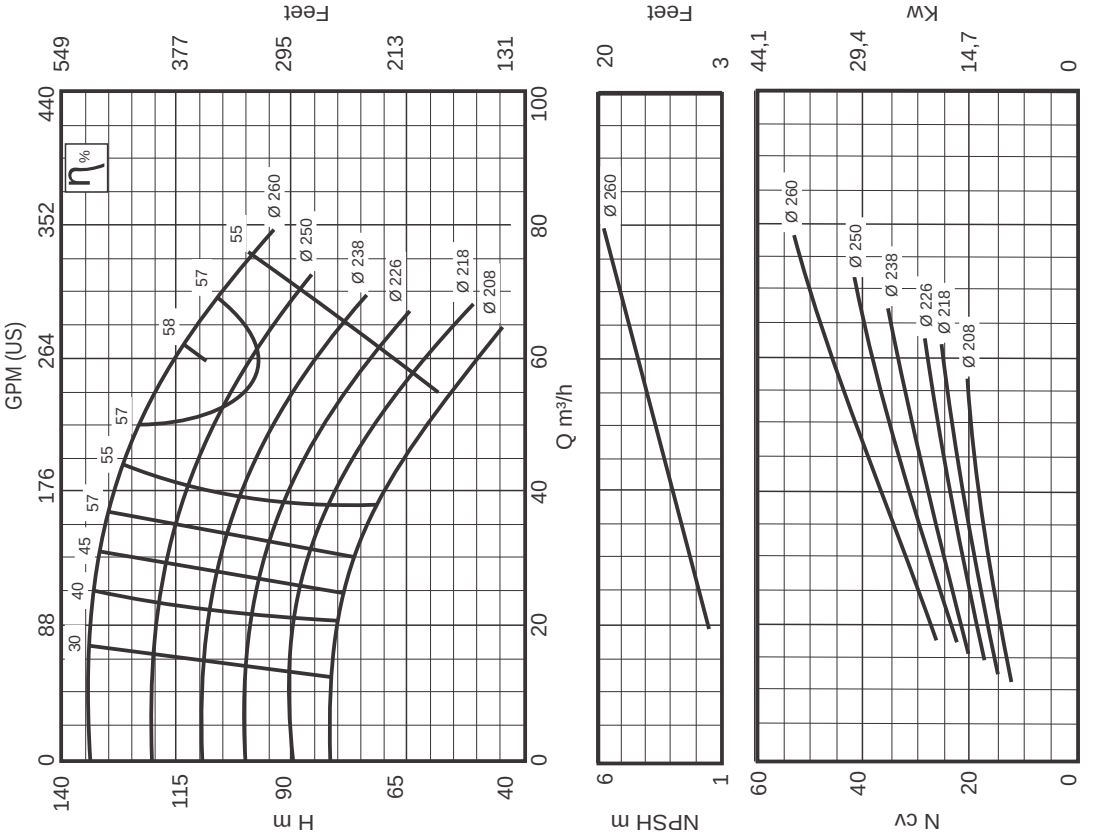
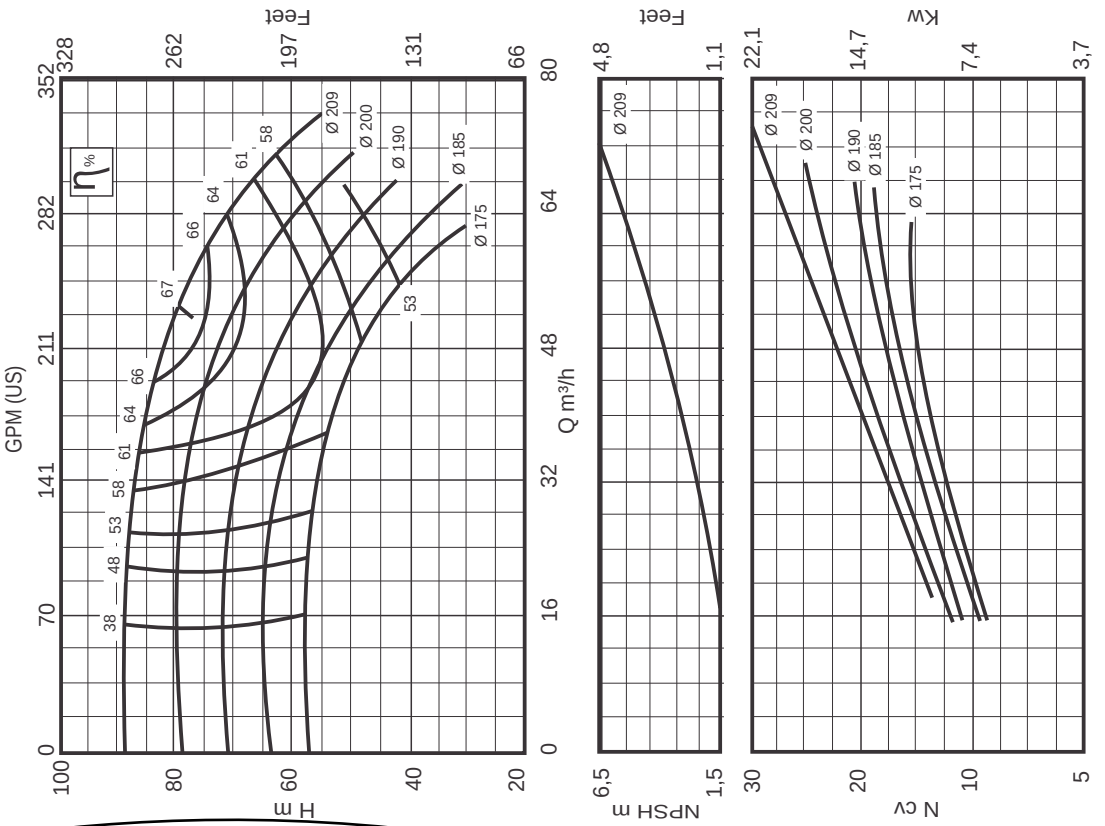
## INI 40-250 — 3500 rpm




**Impeller Ø Max. 260 mm**
**Impeller Ø Min. 208 mm**
**Impeller of Width 8 mm**
**Viscosity μ = 1cP**

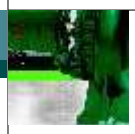
**Suction Flange 65 mm**
**Pressure Flange 40 mm**
**Specific Weigth y= 1kgf/dm³**

## INI 40-200 — 3500 rpm




**Impeller Ø Max. 209 mm**
**Impeller Ø Min. 175 mm**
**Impeller of Width 9 mm**
**Viscosity μ = 1cP**

**Suction Flange 65 mm**
**Pressure Flange 40 mm**
**Specific Weigth y= 1kgf/dm³**



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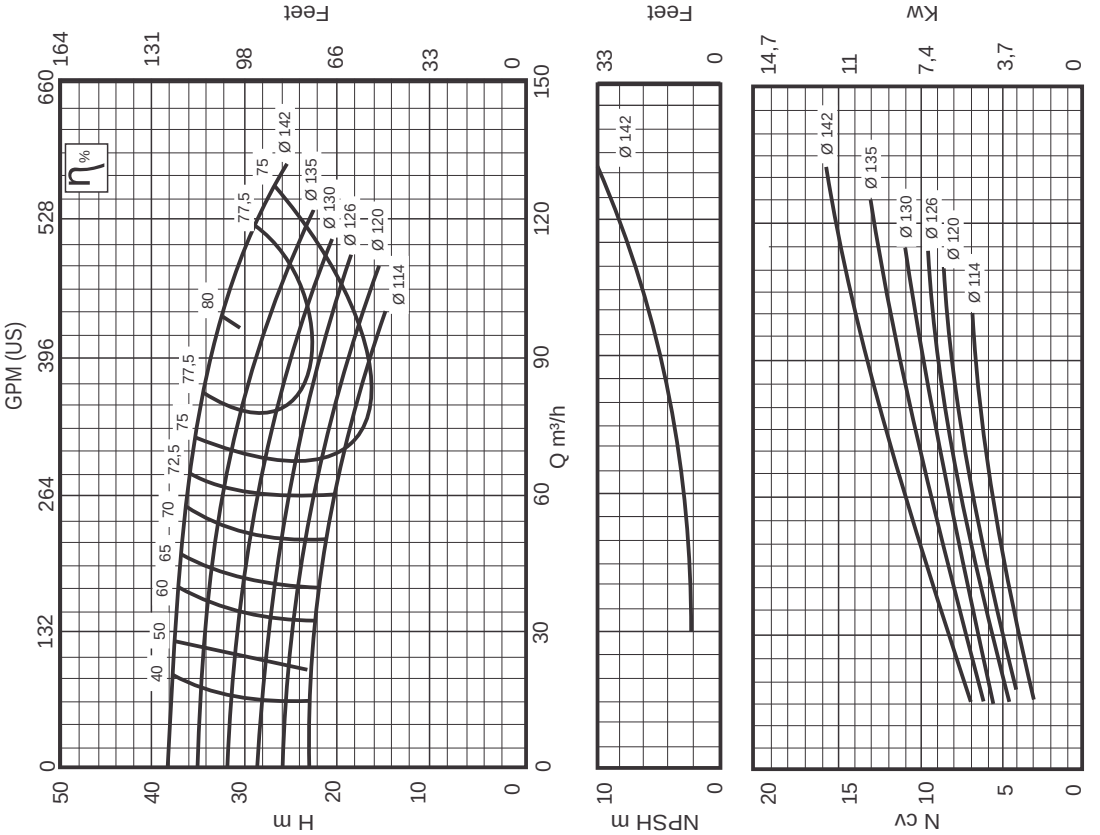
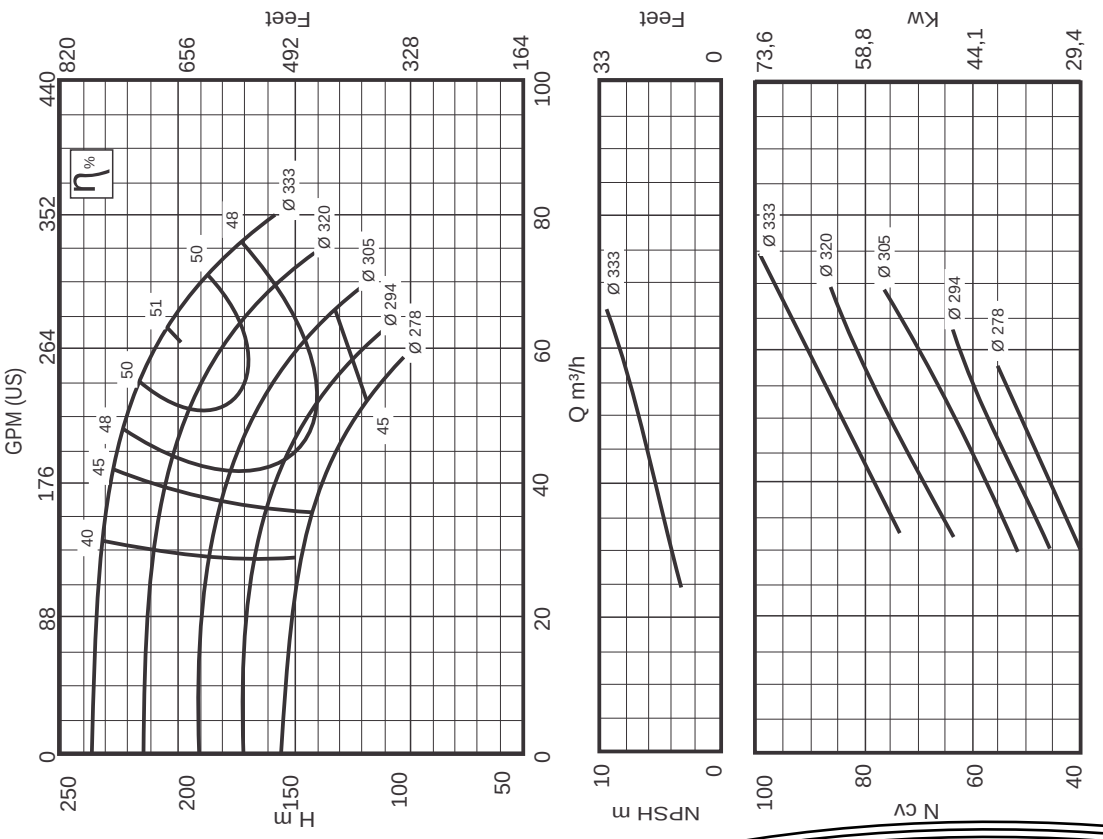
## INI 50-125 — 3500 rpm




**Impeller Ø Max. 142 mm**
Impeller Ø Min. 114 mm
Impeller of Width 20 mm
Viscosity μ = 1cP

**Suction Flange 80 mm**
Pressure Flange 50 mm
Specific Weigth y= 1kgf/dm³

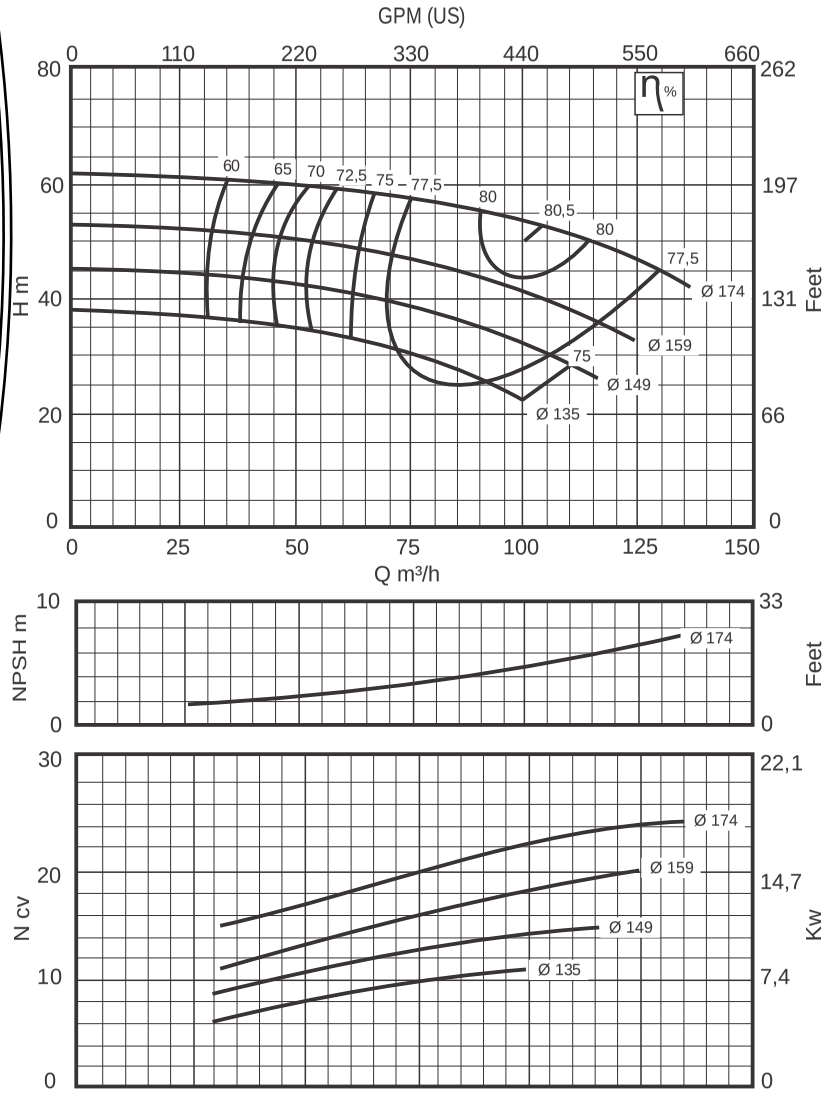
## INI 40-315 — 3500 rpm




**Impeller Ø Max. 333 mm**
Impeller Ø Min. 278 mm
Impeller of Width 9 mm
Viscosity μ = 1cP

**Suction Flange 65 mm**
Pressure Flange 40 mm
Specific Weigth y= 1kgf/dm³

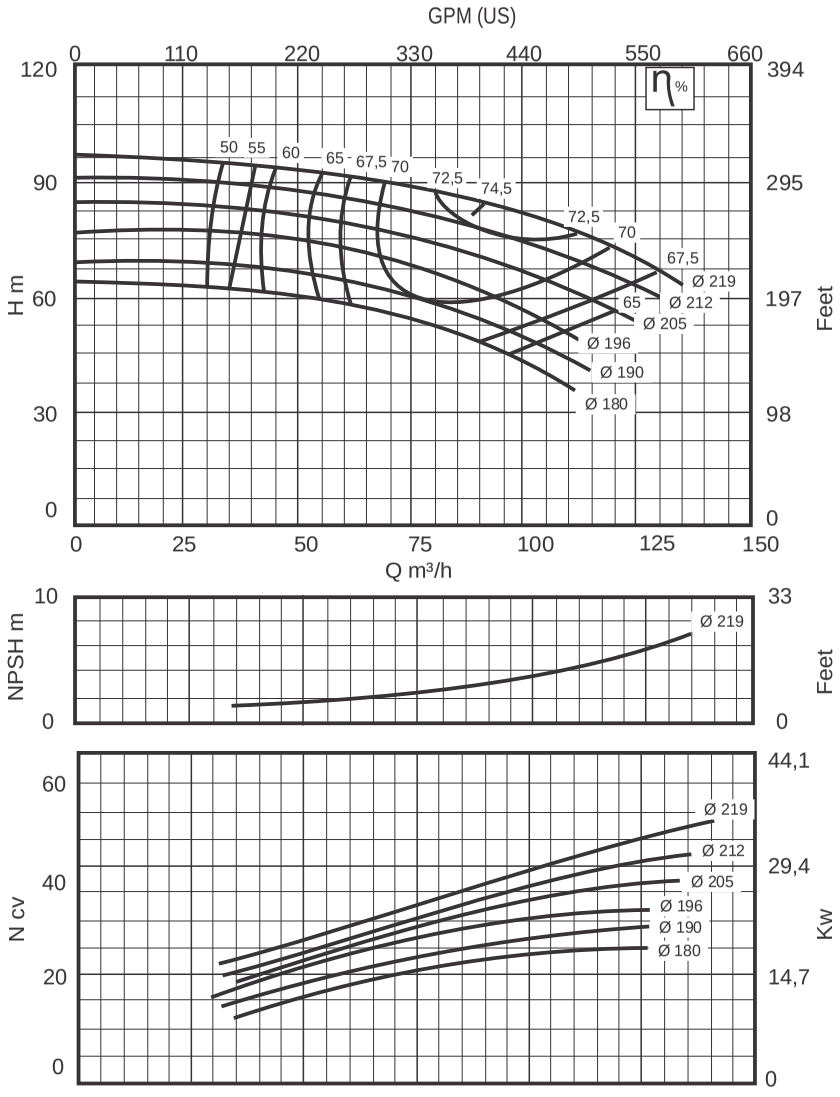
## INI 50-160 — 3500 rpm




**Impeller Ø Max. 174 mm**
**Impeller Ø Min. 135 mm**
**Impeller of Width 16 mm**
**Viscosity μ = 1cP**

**Suction Flange 80 mm**
**Pressure Flange 50 mm**
**Specific Weigth y= 1kgf/dm³**

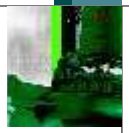
## INI 50-200 — 3500 rpm




**Impeller Ø Max. 219 mm**
**Impeller Ø Min. 180 mm**
**Impeller of Width 11 mm**
**Viscosity μ = 1cP**

**Suction Flange 80 mm**
**Pressure Flange 50 mm**
**Specific Weigth y= 1kgf/dm³**





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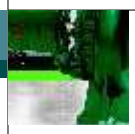

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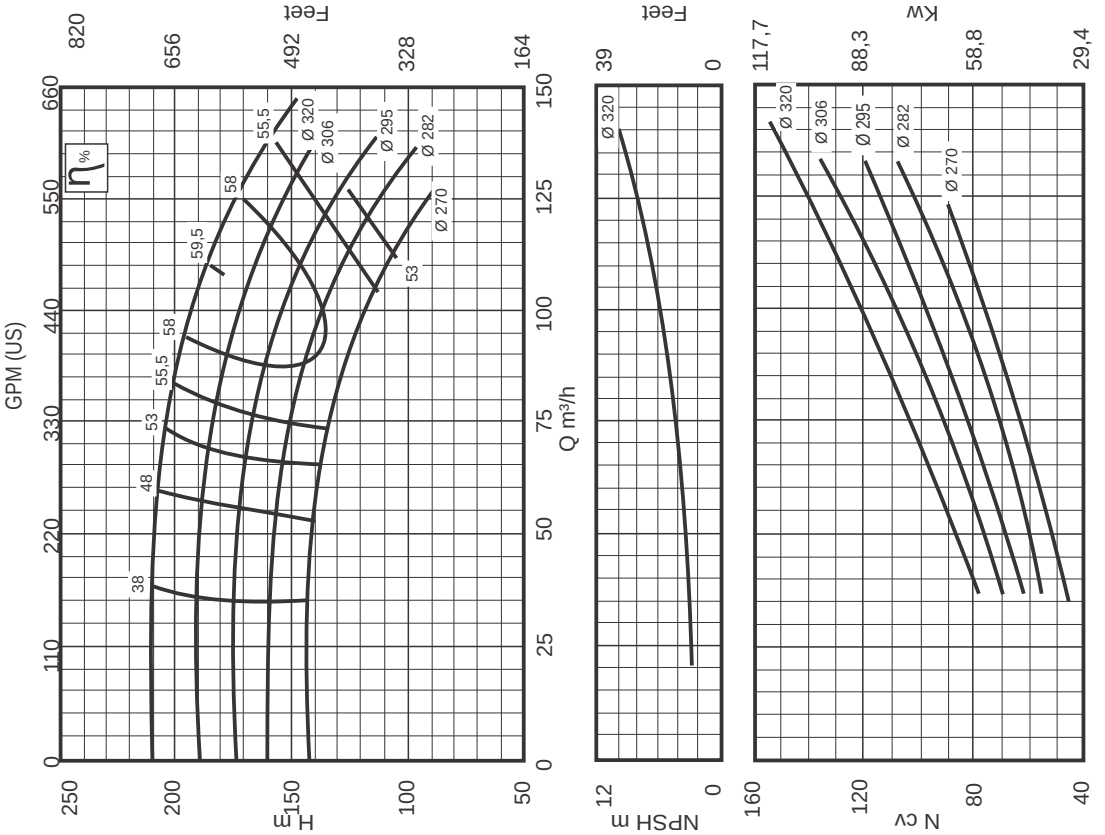
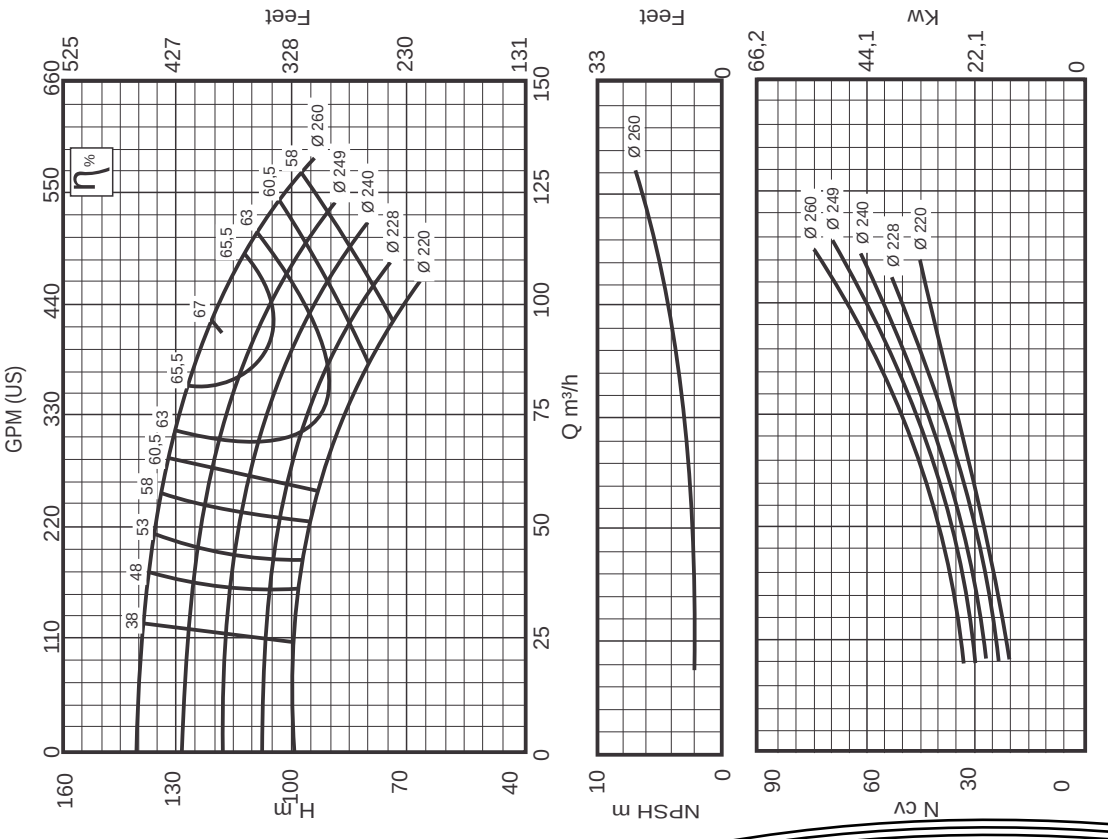
## INI 50-315 — 3500 rpm




**Suction Flange 80 mm**
**Pressure Flange 50 mm**
**Specific Weigth y= 1kgf/dm³**

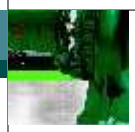
**Impeller Ø Max. 320 mm**
**Impeller Ø Min. 270 mm**
**Impeller of Width 9 mm**
**Viscosity μ = 1cP**

## INI 50-250 — 3500 rpm



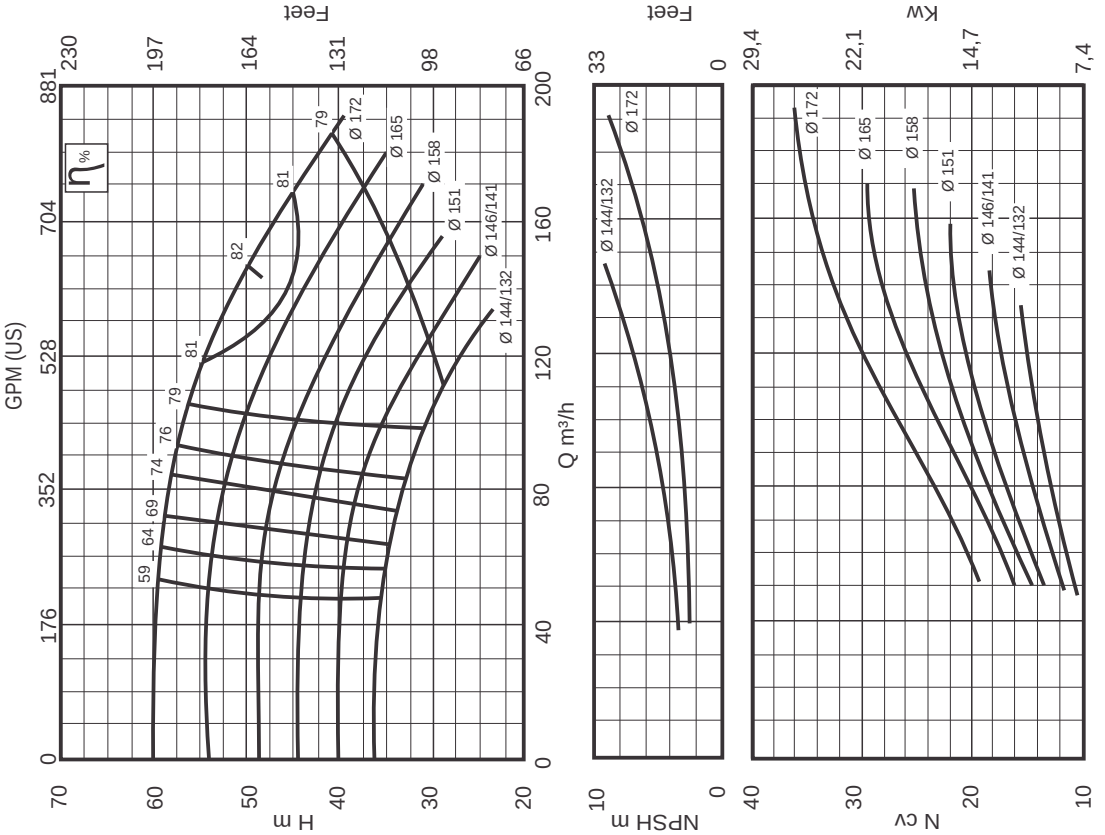

**Suction Flange 80 mm**
**Pressure Flange 50 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 260 mm**
**Impeller Ø Min. 220 mm**
**Impeller of Width 12 mm**
**Viscosity μ = 1cP**



IMBIL Pumping Solutions

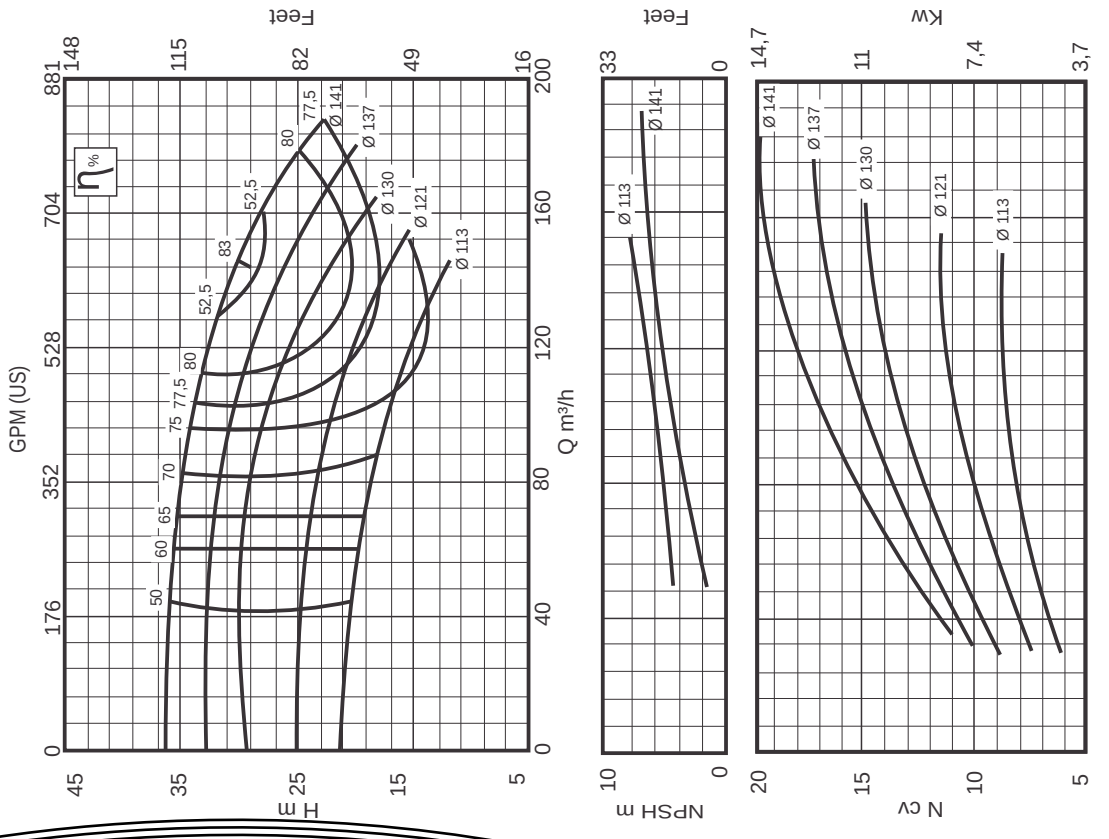
## INI 65-160 — 3500 rpm




**Impeller Ø Max. 172 mm**
**Impeller Ø Min. 144/132 mm**
**Impeller of Width 21 mm**
**Viscosity μ = 1cP**

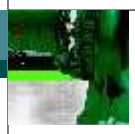
**Suction Flange 100 mm**
**Pressure Flange 65 mm**
**Specific Weigth y= 1kgf/dm³**

## INI 65-125 — 3500 rpm




**Impeller Ø Max. 141mm**
**Impeller Ø Min. 113 mm**
**Impeller of Width 25 mm**
**Viscosity μ = 1cP**

**Suction Flange 100 mm**
**Pressure Flange 65 mm**
**Specific Weigth y= 1kgf/dm³**



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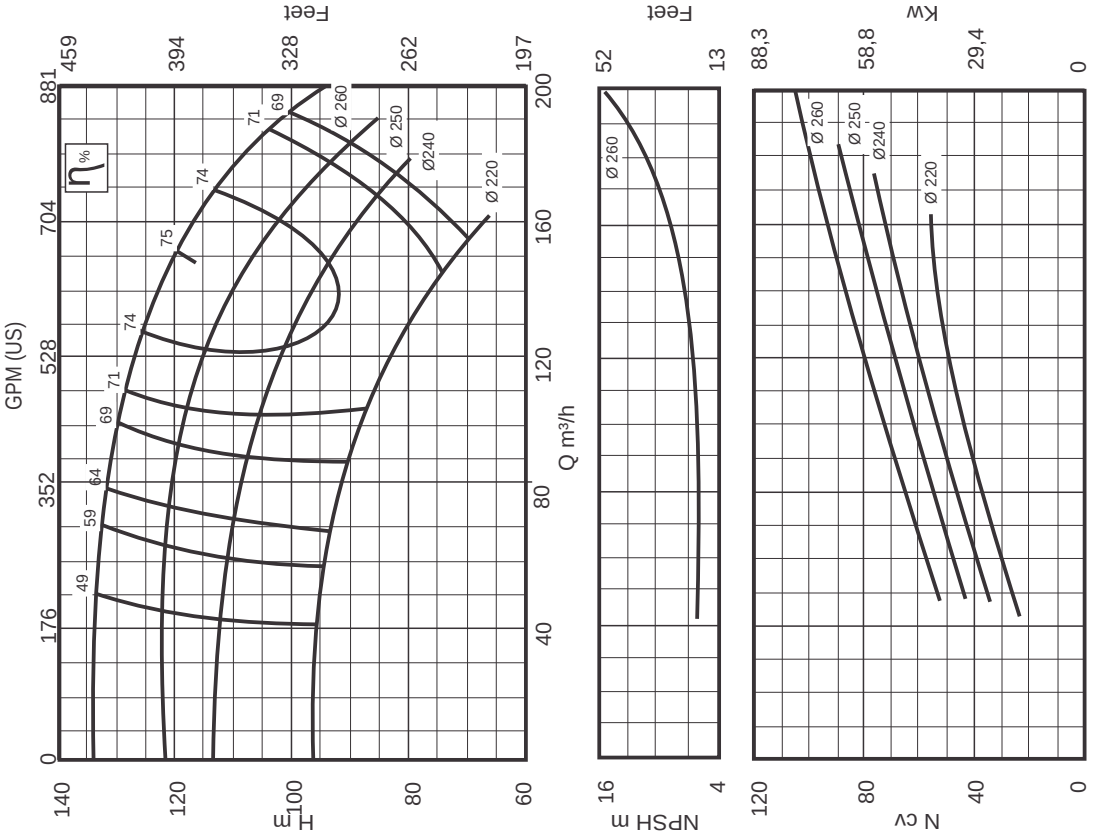
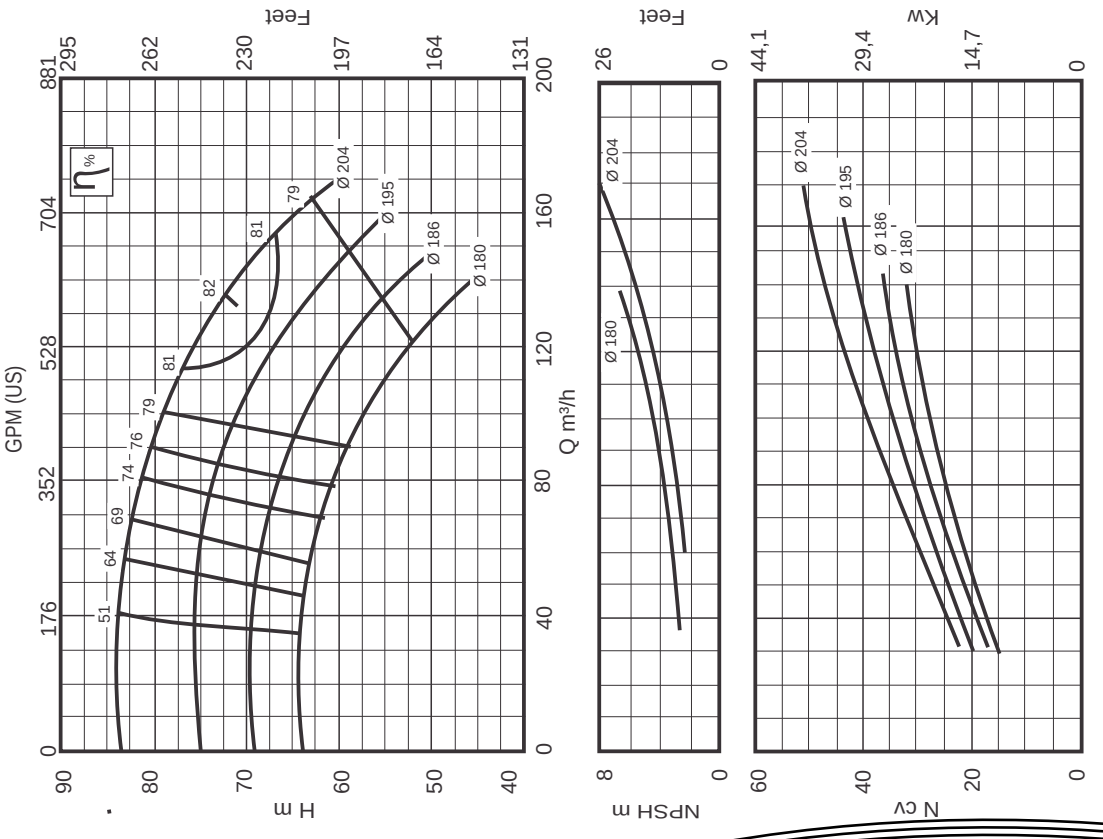
## INI 65-250 — 3500 rpm




**Suction Flange 100 mm**
**Pressure Flange 65 mm**
**Specific Weigth y= 1kgf/dm³**

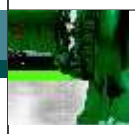
**Impeller Ø Max. 260 mm**
**Impeller Ø Min. 220 mm**
**Impeller of Width 13 mm**
**Viscosity μ = 1cP**

## INI 65-200 — 3500 rpm




**Suction Flange 100 mm**
**Pressure Flange 65 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 204 mm**
**Impeller Ø Min. 180 mm**
**Impeller of Width 17 mm**
**Viscosity μ = 1cP**



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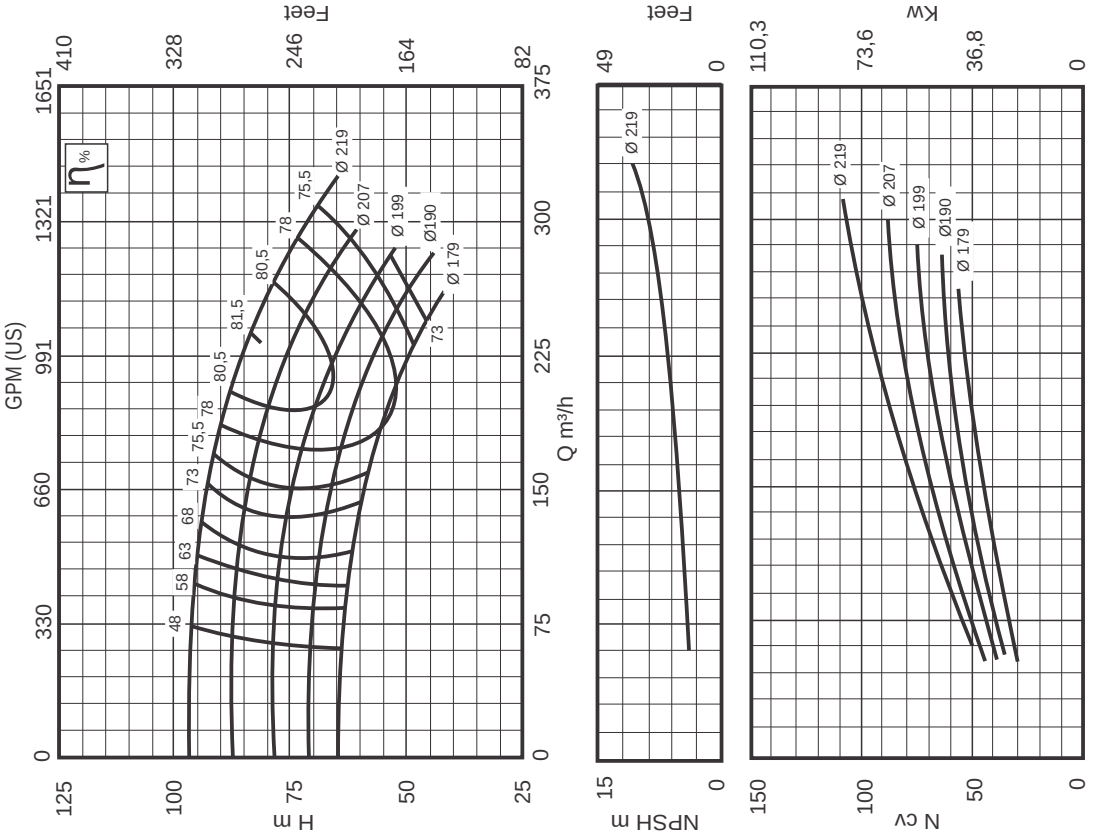
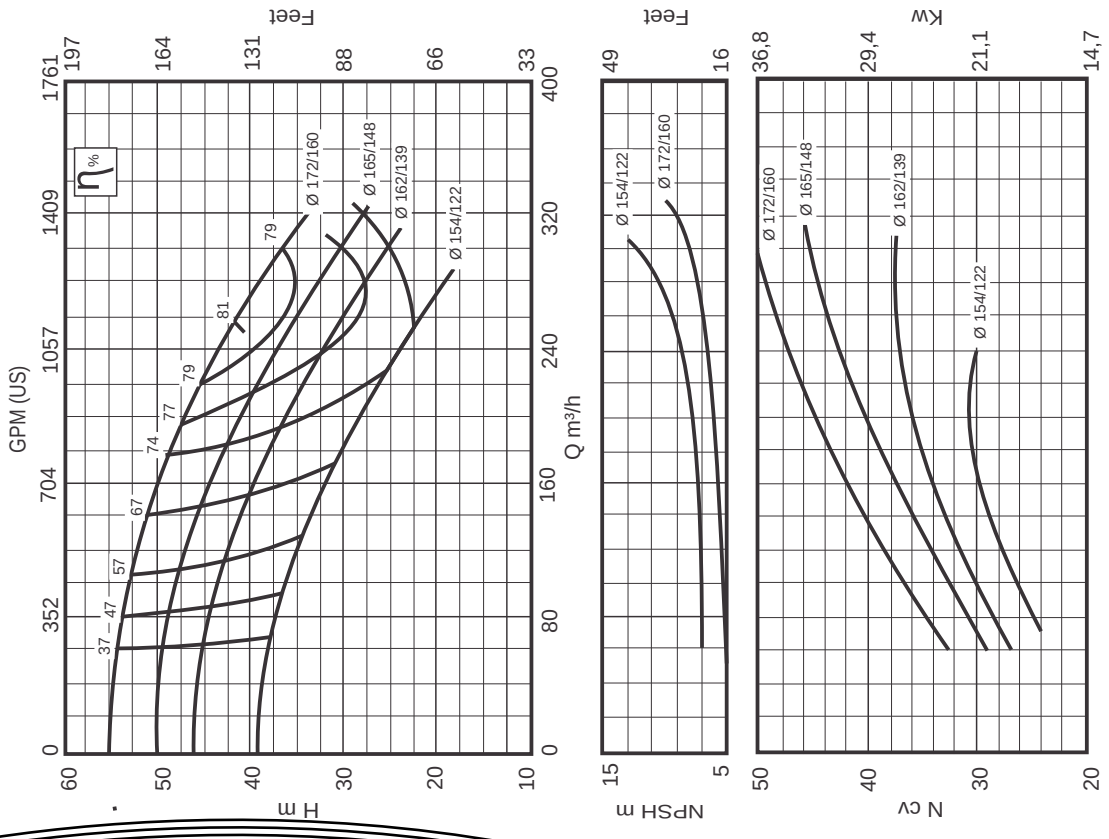
## INI 80-200 — 3500 rpm




**Impeller Ø Max. 219 mm**
**Impeller Ø Min. 179 mm**
**Impeller of Width 23 mm**
**Viscosity μ = 1cP**

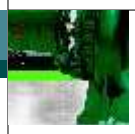
**Suction Flange 125 mm**
**Pressure Flange 80 mm**
**Specific Weigth y= 1kgf/dm³**

## INI 80-160 — 3500 rpm




**Impeller Ø Max. 172/160 mm**
**Impeller Ø Min. 154/122 mm**
**Impeller of Width 31 mm**
**Viscosity μ = 1cP**

**Suction Flange 125 mm**
**Pressure Flange 80 mm**
**Specific Weigth y= 1kgf/dm³**



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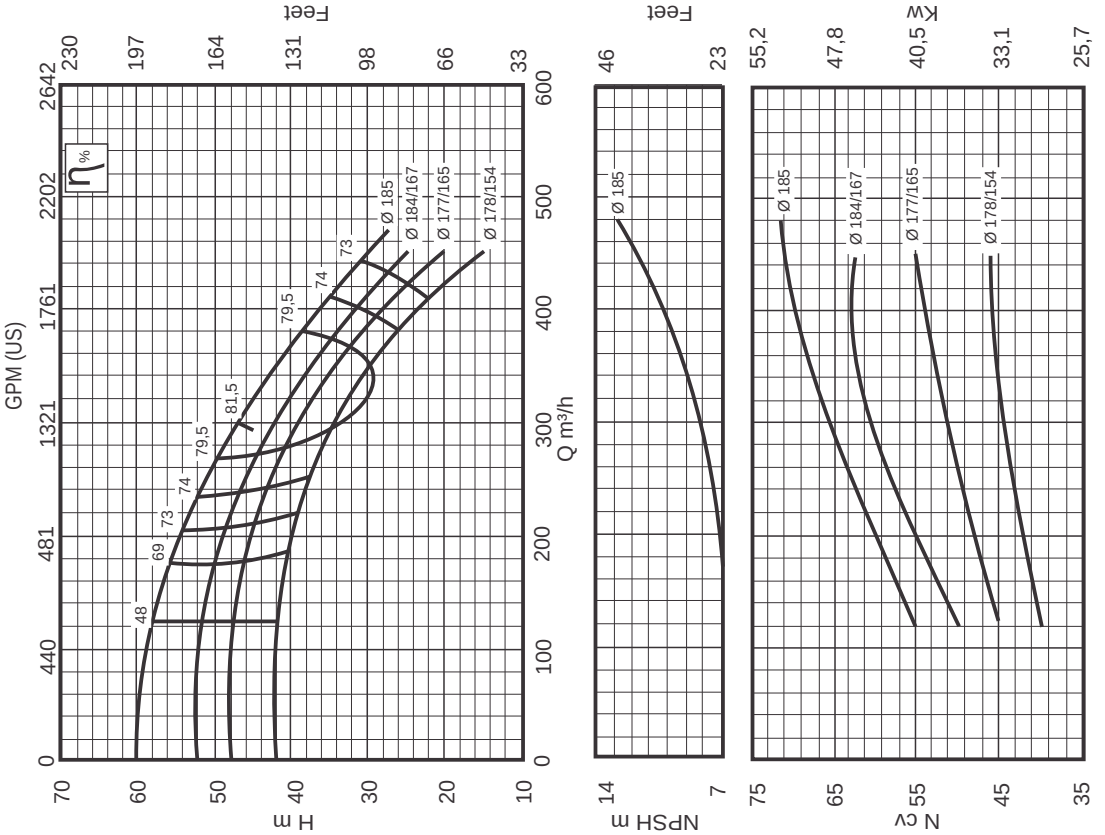
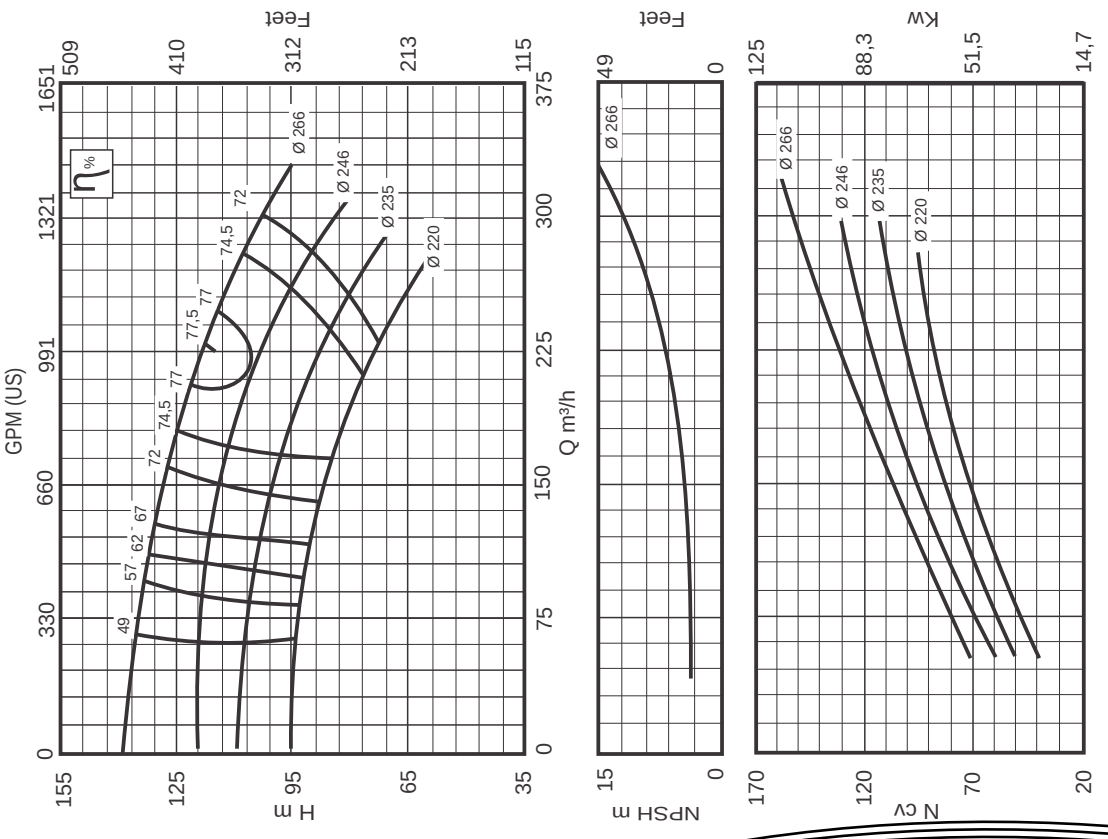
## INI 100-160 — 3500 rpm




**Suction Flange 125 mm**
**Pressure Flange 100 mm**
**Specific Weigth y= 1kgf/dm³**

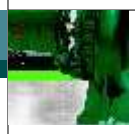
**Impeller Ø Max. 185 mm**
**Impeller Ø Min. 178/154 mm**
**Impeller of Width 36 mm**
**Viscosity μ = 1cP**

## INI 80-250 — 3500 rpm




**Suction Flange 125 mm**
**Pressure Flange 80 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 266 mm**
**Impeller Ø Min. 220 mm**
**Impeller of Width 19 mm**
**Viscosity μ = 1cP**



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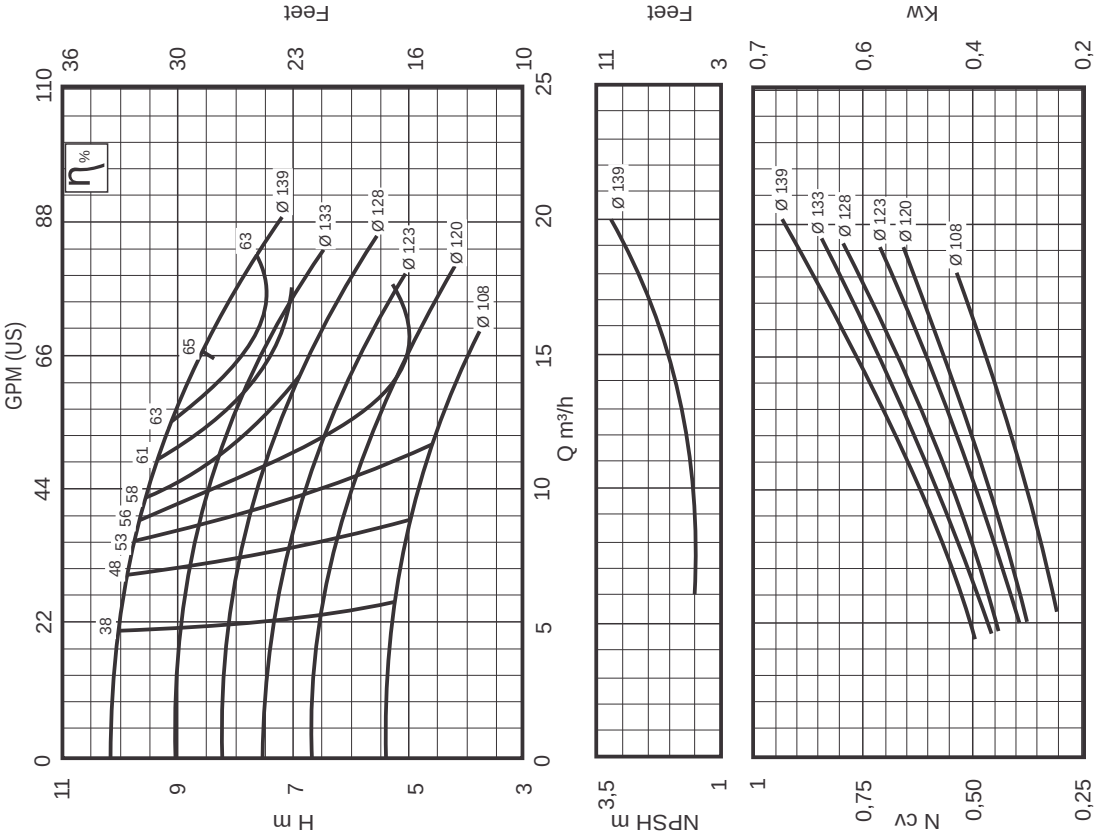
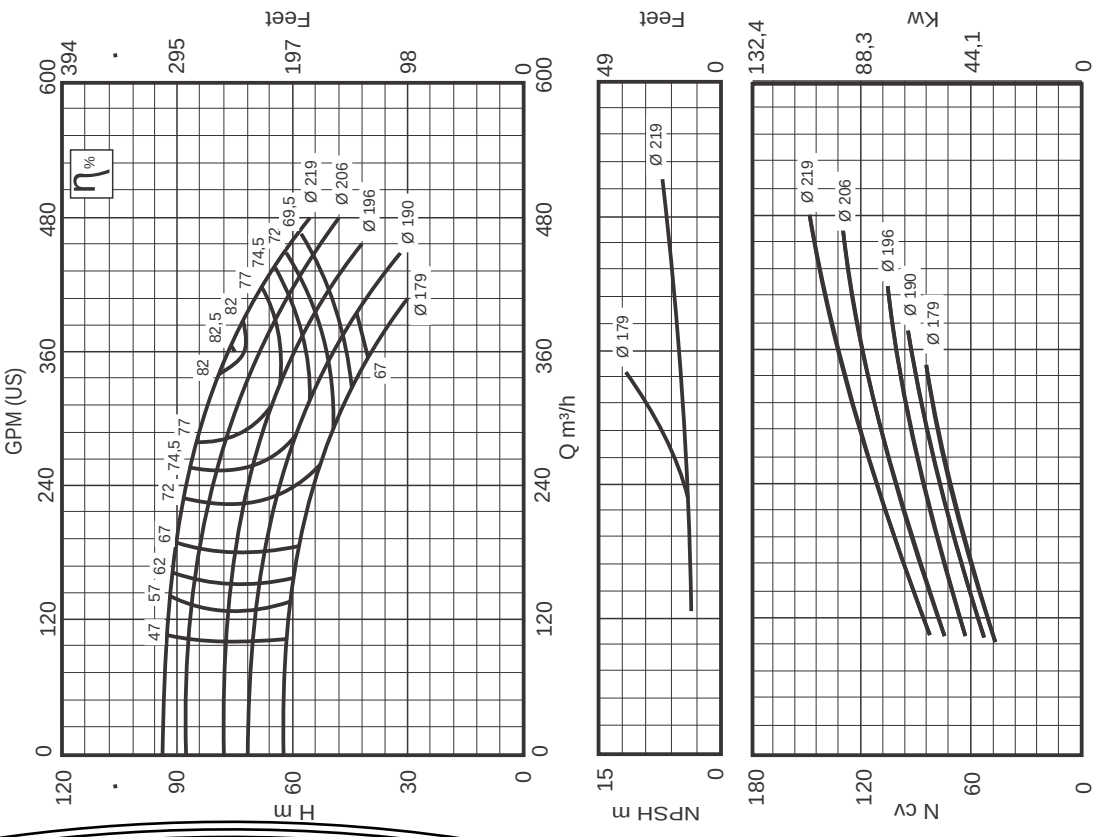
## INI 32-125 — 1750 rpm




**Suction Flange 50mm**
**Pressure Flange 32 mm**
**Specific Weigth y= 1kgf/dm³**

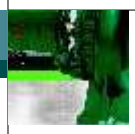
**Impeller Ø Max. 139 mm**
**Impeller Ø Min. 108 mm**
**Impeller of Width 9 mm**
**Viscosity μ = 1cP**

## INI 100-200 — 3500 rpm




**Suction Flange 125 mm**
**Pressure Flange 100 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 219 mm**
**Impeller Ø Min. 179 mm**
**Impeller of Width 32 mm**
**Viscosity μ = 1cP**



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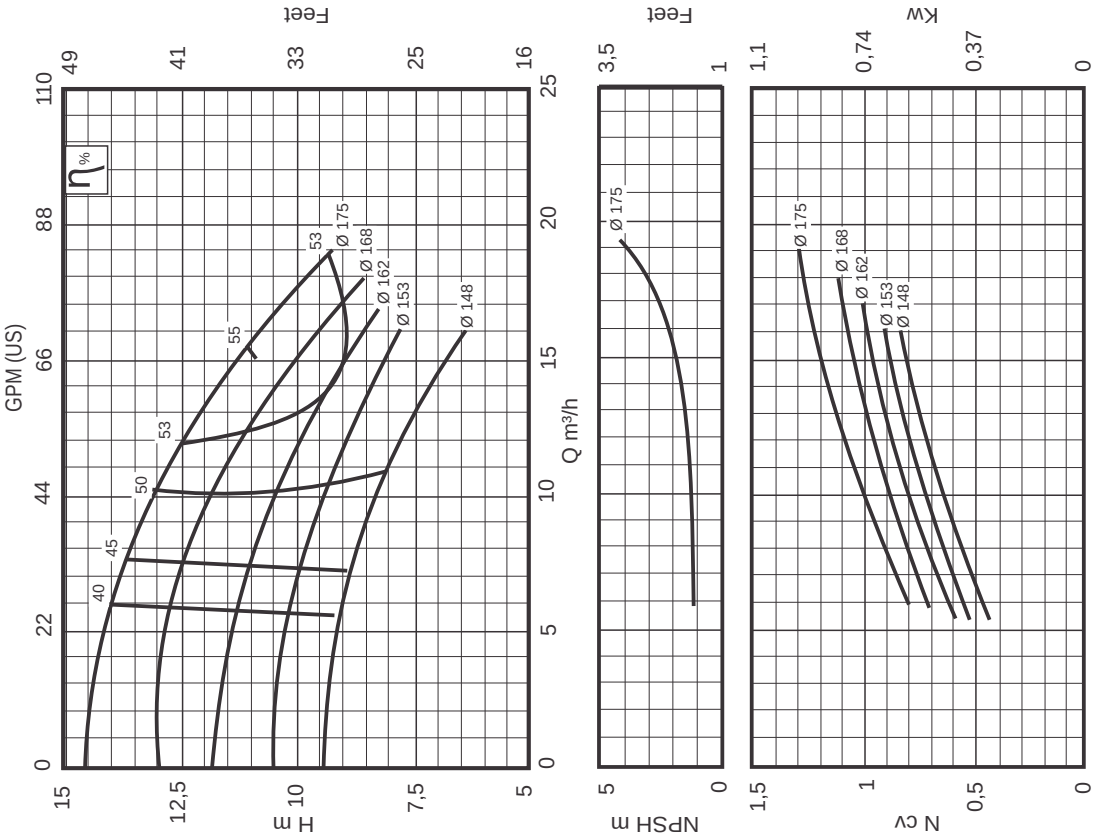
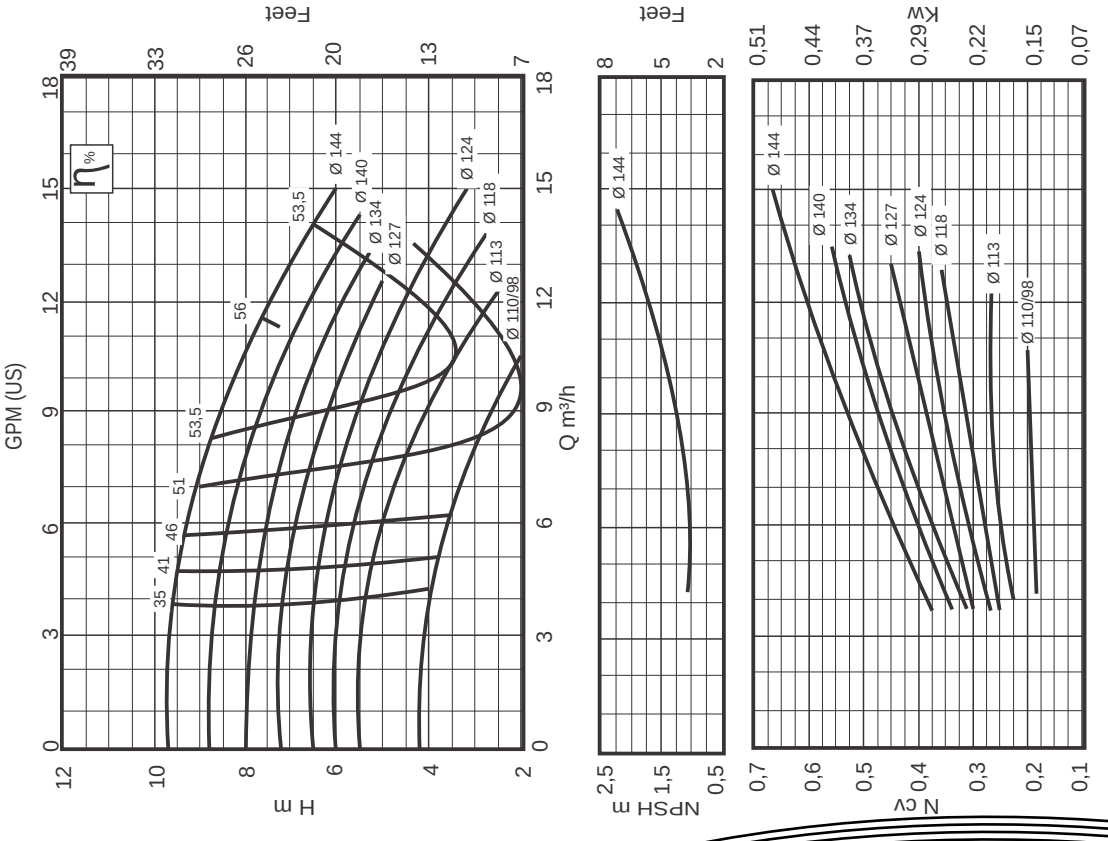
## INI 32-160 1750rpm




**Suction Flange 50 mm**
**Pressure Flange 32 mm**
**Specific Weigth y= 1kgf/dm³**

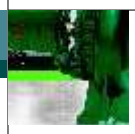
**Impeller Ø Max. 176 mm**
**Impeller Ø Min. 148 mm**
**Impeller of Width 5 mm**
**Viscosity μ = 1cP**

## INI 32-125.1 1750 rpm




**Suction Flange 50 mm**
**Pressure Flange 32 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 144 mm**
**Impeller Ø Min. 110/98 mm**
**Viscosity μ = 1cP**



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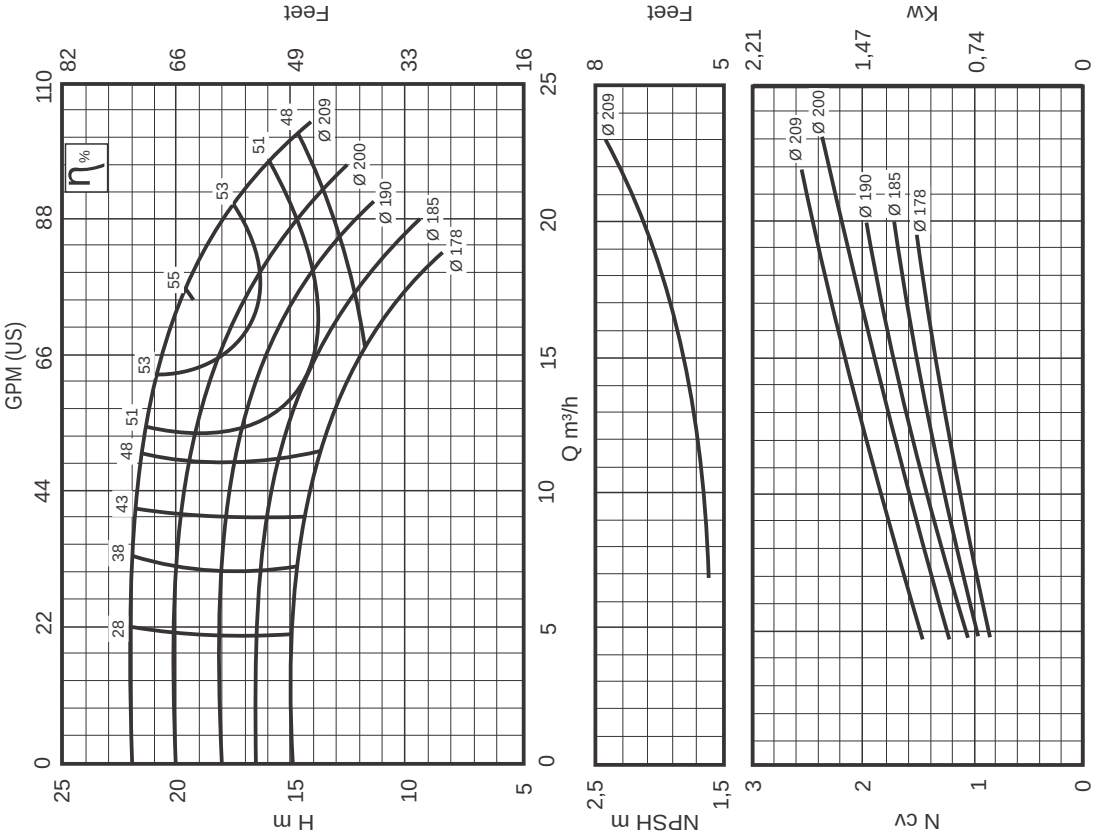
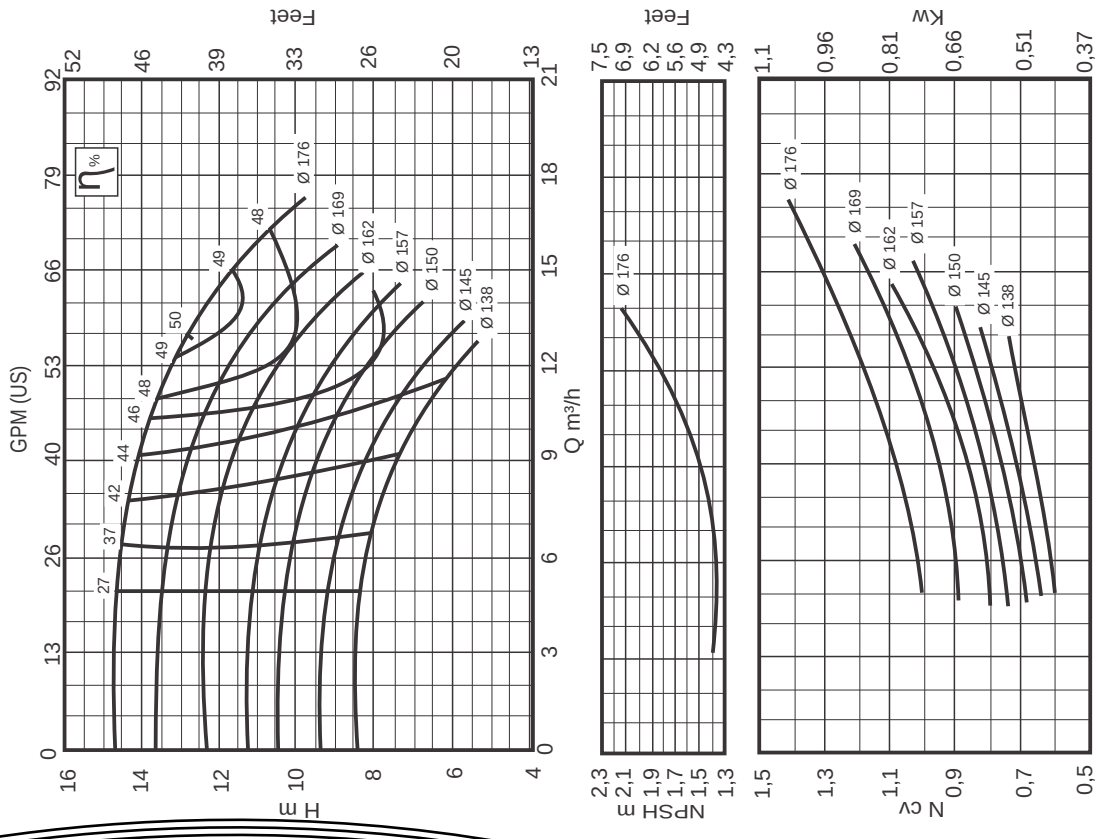
## INI 32-200 — 1750 rpm




**Impeller Ø Max. 209 mm**
**Impeller Ø Min. 178 mm**
**Impeller of Width 6 mm**
**Viscosity μ = 1cP**

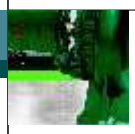
**Suction Flange 50 mm**
**Pressure Flange 32 mm**
**Specific Weigth y= 1kgf/dm³**

## INI 32-160.1 — 1750rpm




**Impeller Ø Max. 176 mm**
**Impeller Ø Min. 138 mm**
**IViscosity μ = 1cP**

**Suction Flange 50 mm**
**Pressure Flange 32 mm**
**Specific Weigth y= 1kgf/dm³**



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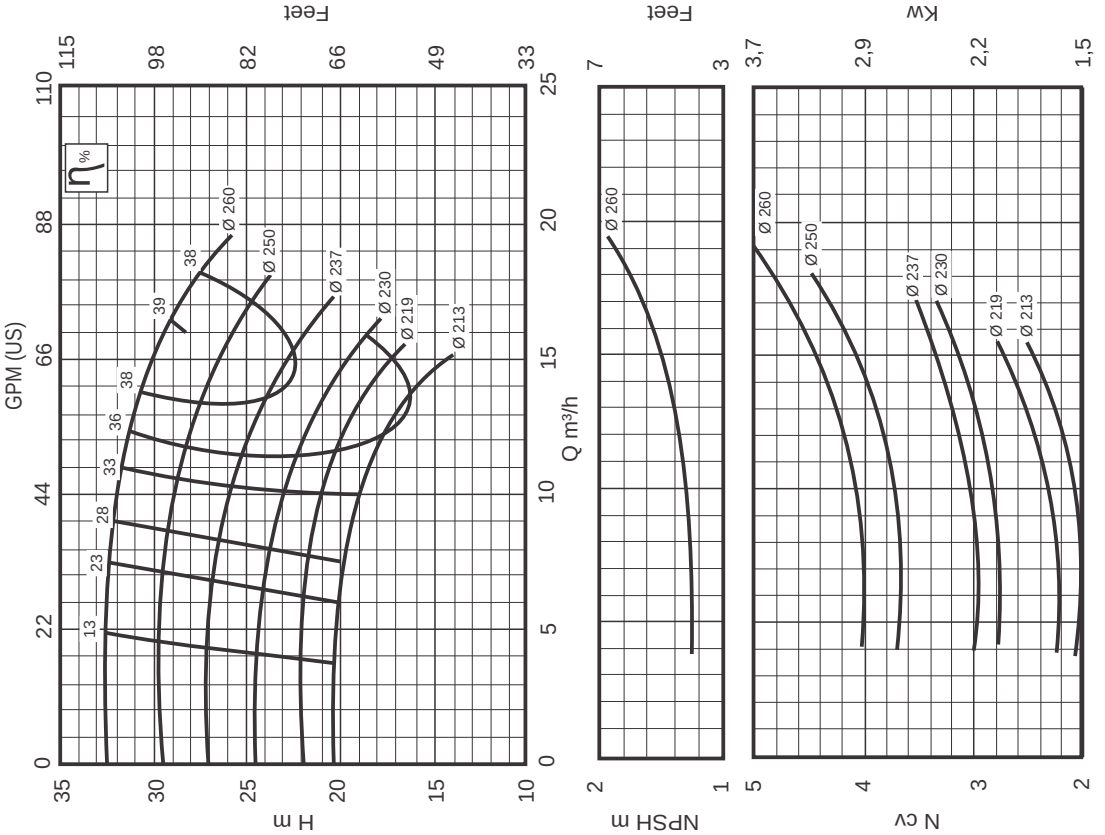
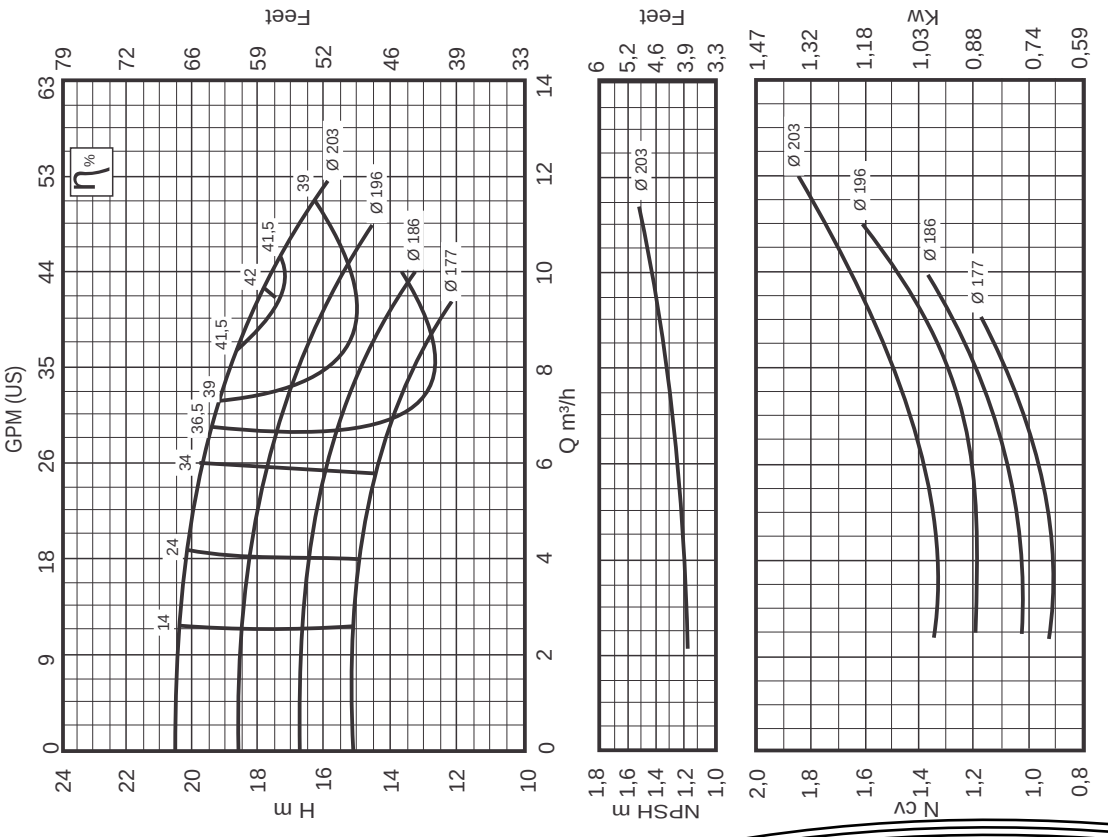
## INI 32-250 1750rpm




**Suction Flange 50 mm**
**Pressure Flange 32 mm**
**Specific Weigth y= 1kgf/dm³**

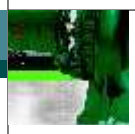
**Impeller Ø Max. 260 mm**
**Impeller Ø Min. 213 mm**
**Impeller of Width 8 mm**
**Viscosity μ = 1cP**

## INI 32-200.1 1750rpm




**Suction Flange 50 mm**
**Pressure Flange 32 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 203 mm**
**Impeller Ø Min. 177 mm**
**Viscosity u = 1cP**



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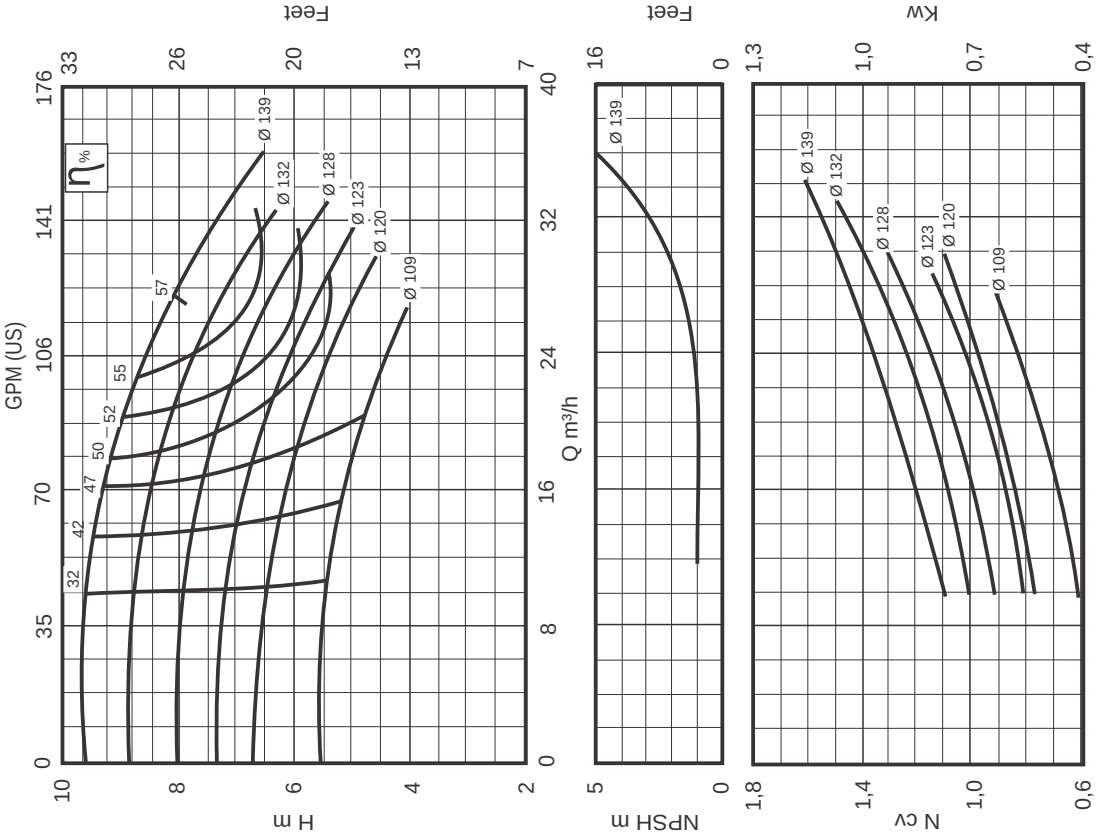
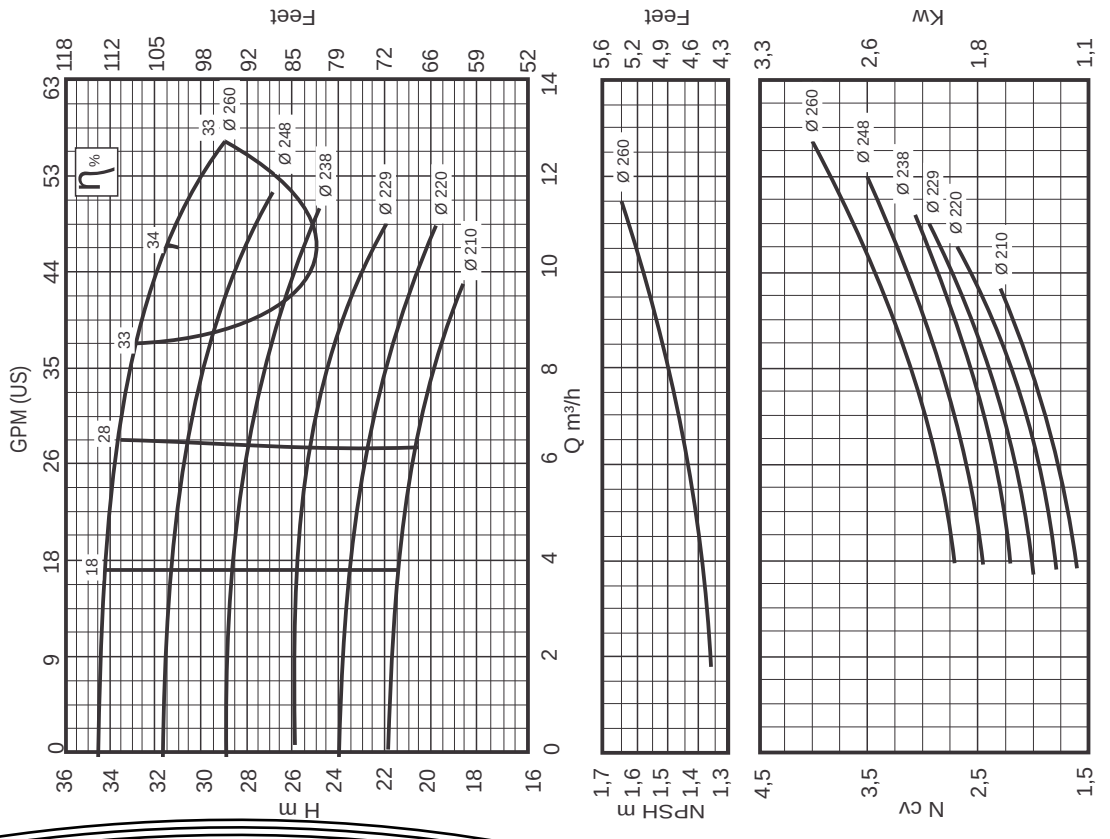
## INI 40-125 — 1750 rpm




**Suction Flange 65 mm**
**Pressure Flange 40 mm**
**Specific Weigth y= 1kgf/dm³**

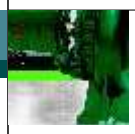
**Impeller Ø Max. 139 mm**
**Impeller Ø Min. 109 mm**
**Impeller of Width 14 mm**
**Viscosity μ = 1cP**

## INI 32-250.1 — 1750rpm




**Suction Flange 50 mm**
**Pressure Flange 32 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 260 mm**
**Impeller Ø Min. 210 mm**
**Viscosity u = 1cP**



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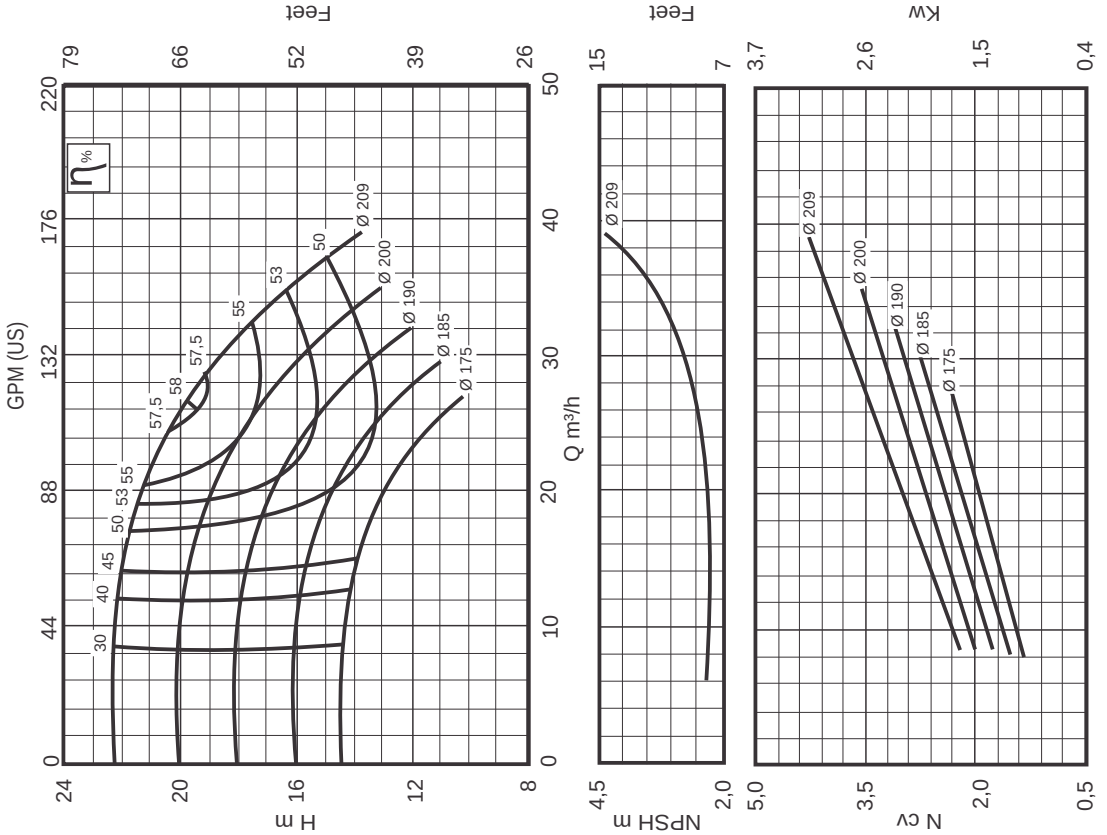
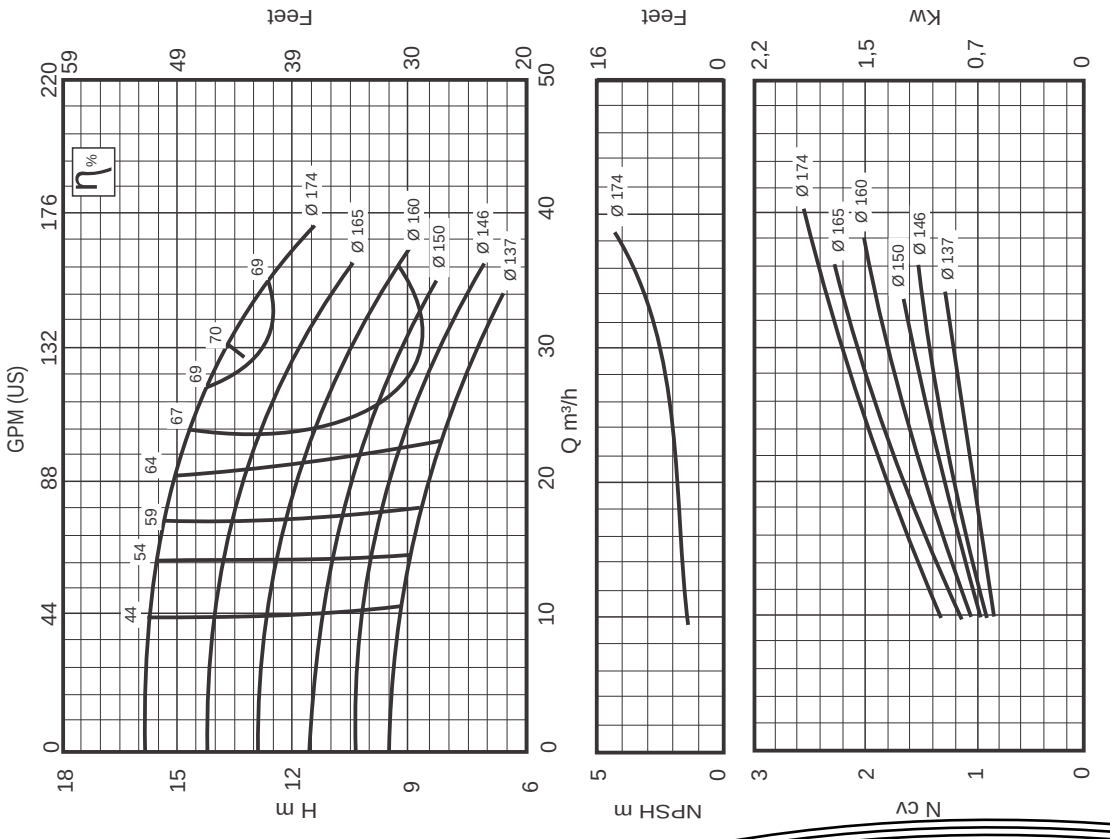
## INI 40-200 — 1750 rpm




**Suction Flange 65 mm**
**Pressure Flange 40 mm**
**Specific Weigth y= 1kgf/dm³**

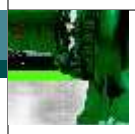
**Impeller Ø Max. 209 mm**
**Impeller Ø Min. 175 mm**
**Impeller of Width 9 mm**
**Viscosity μ = 1cP**

## INI 40-160 — 1750 rpm




**Suction Flange 65 mm**
**Pressure Flange 40 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 174 mm**
**Impeller Ø Min. 137 mm**
**Impeller of Width 12 mm**
**Viscosity μ = 1cP**



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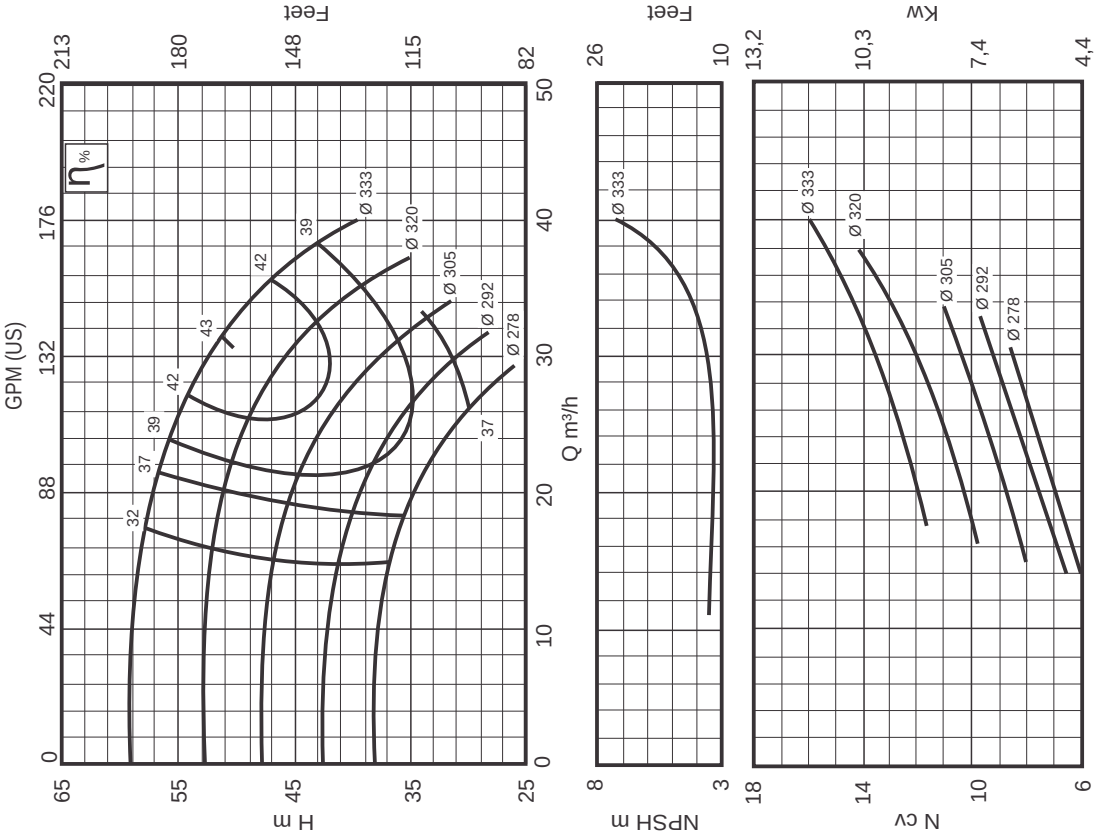
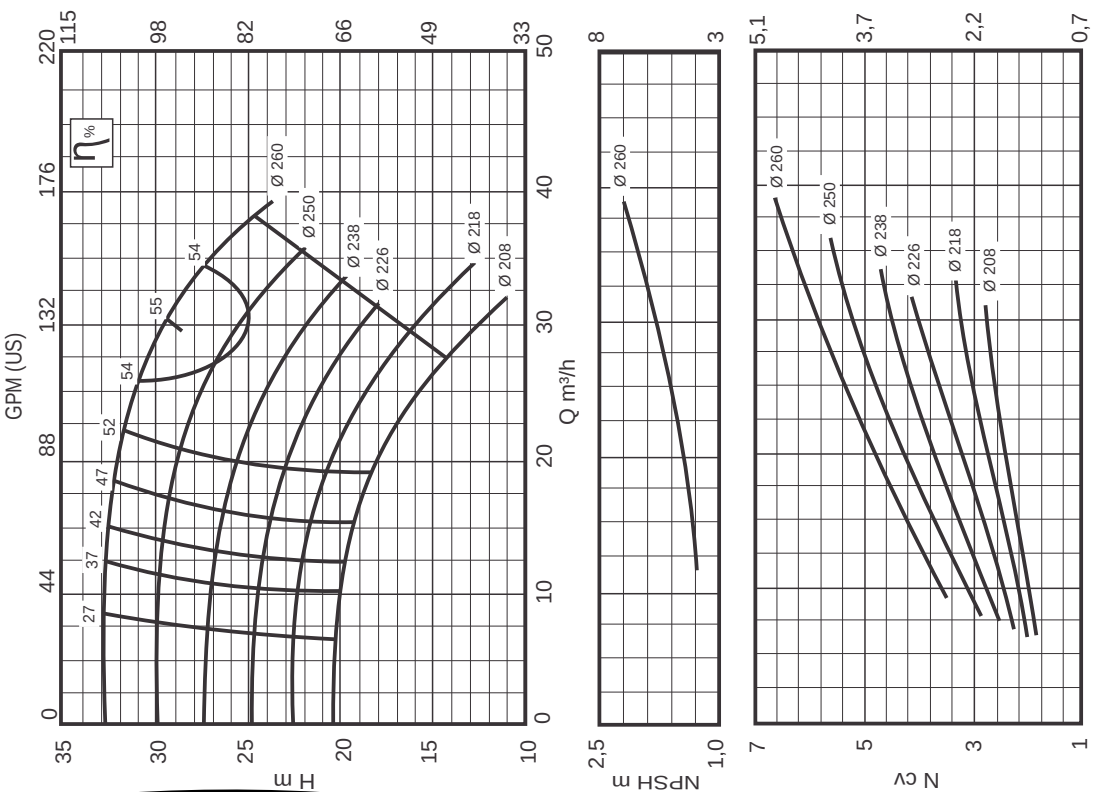
## INI 40-315 — 1750 rpm




**Suction Flange 65 mm**
**Pressure Flange 40 mm**
**Specific Weigth y= 1kgf/dm³**

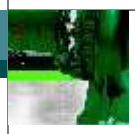
**Impeller Ø Max. 333 mm**
**Impeller Ø Min. 278 mm**
**Impeller of Width 9 mm**
**Viscosity μ = 1cP**

## INI 40-250 — 1750 rpm




**Suction Flange 65 mm**
**Pressure Flange 40 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 260 mm**
**Impeller Ø Min. 208 mm**
**Impeller of Width 8 mm**
**Viscosity μ = 1cP**



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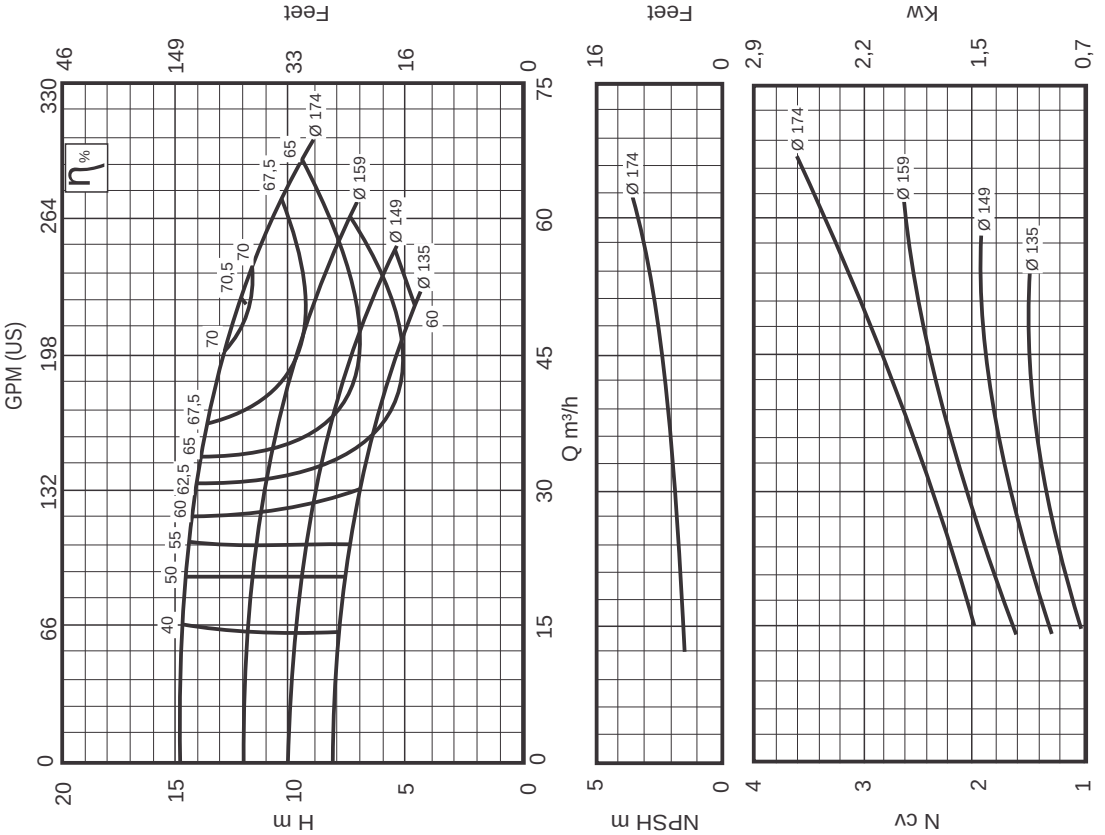
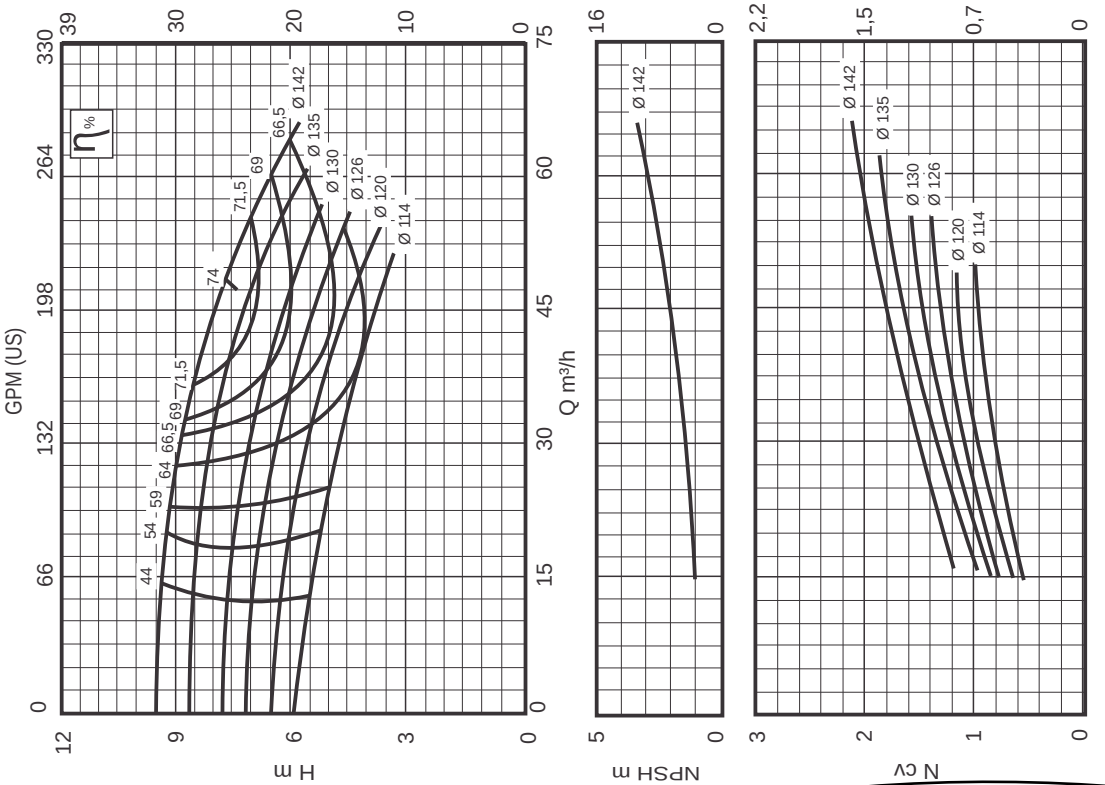
## INI 50-160 — 1750 rpm




**Suction Flange 80 mm**
**Pressure Flange 50 mm**
**Specific Weigth y= 1kgf/dm³**

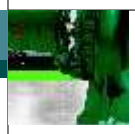
**Impeller Ø Max. 174 mm**
**Impeller Ø Min. 135 mm**
**Impeller of Width 16 mm**
**Viscosity μ = 1cP**

## INI 50-125 — 1750 rpm




**Suction Flange 80 mm**
**Pressure Flange 50 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 142 mm**
**Impeller Ø Min. 114 mm**
**Impeller of Width 20 mm**
**Viscosity μ = 1cP**



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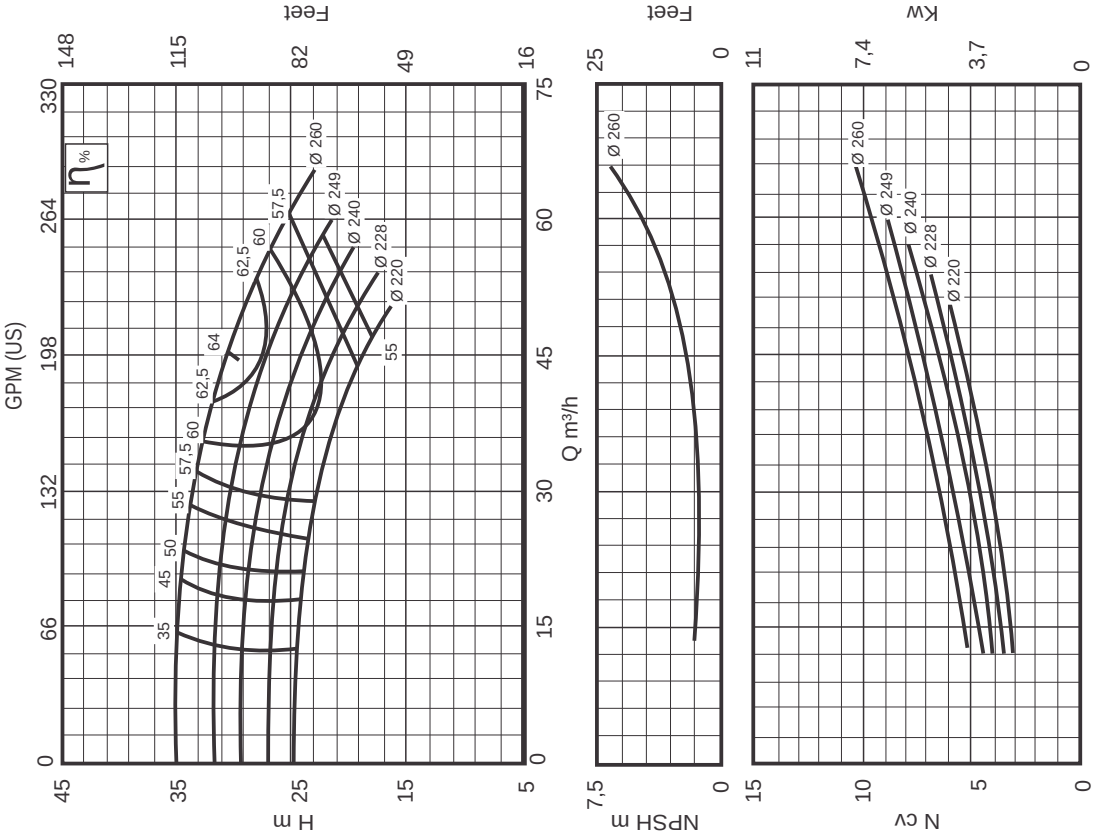
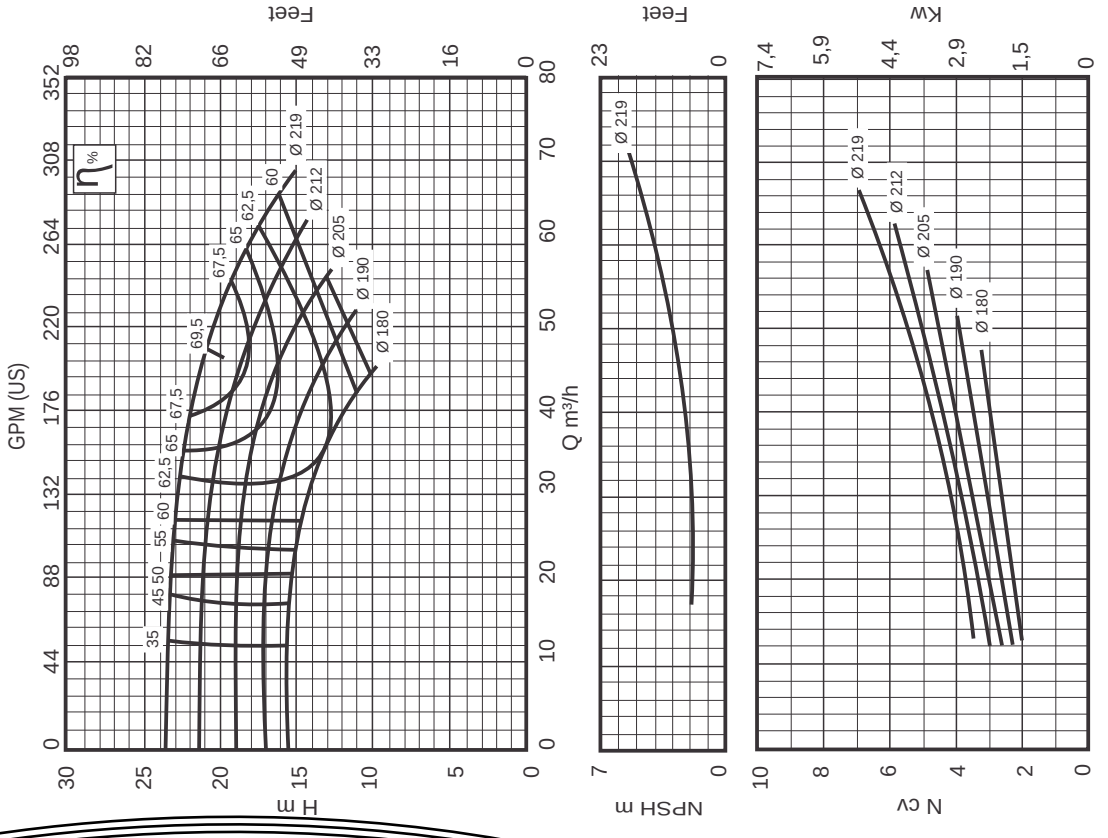
## INI 50-250 — 1750 rpm




**Suction Flange 80 mm**
**Pressure Flange 50 mm**
**Specific Weigth y= 1kgf/dm³**

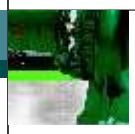
**Impeller Ø Max. 260 mm**
**Impeller Ø Min. 220 mm**
**Impeller of Width 12 mm**
**Viscosity μ = 1cP**

## INI 50-200 — 1750 rpm




**Suction Flange 80 mm**
**Pressure Flange 50 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 219 mm**
**Impeller Ø Min. 180 mm**
**Impeller of Width 11 mm**
**Viscosity μ = 1cP**



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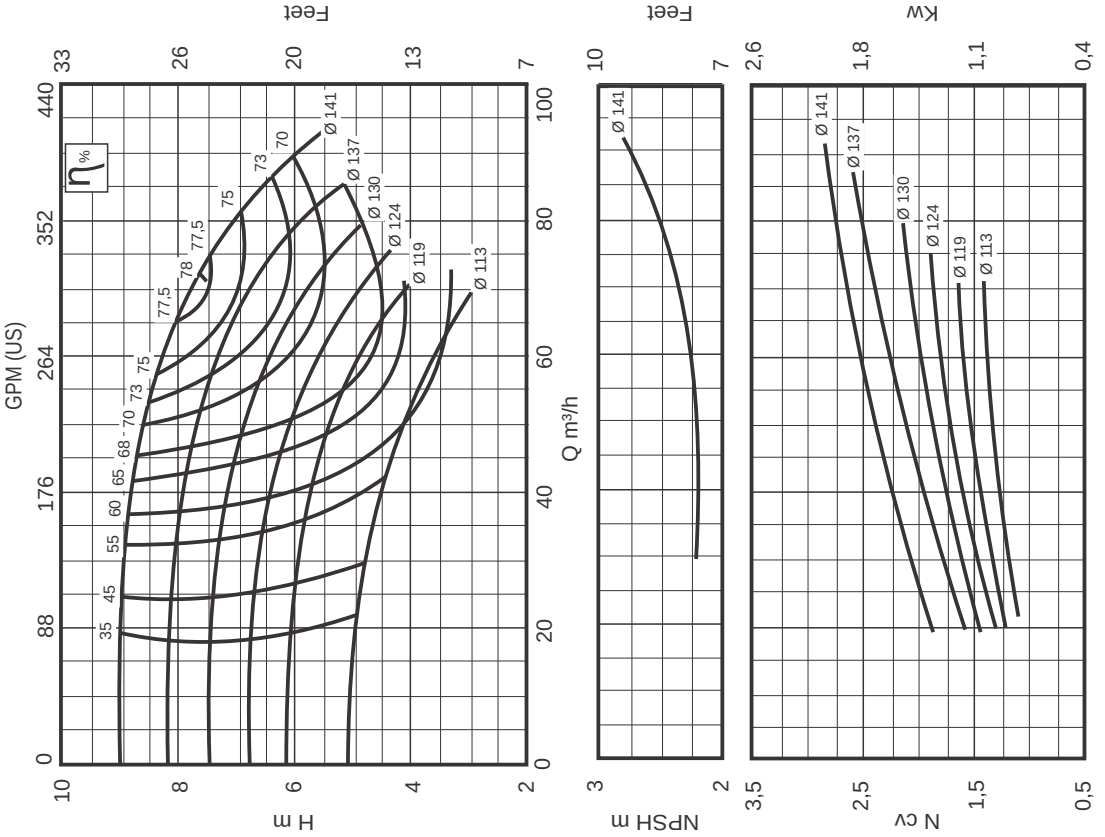
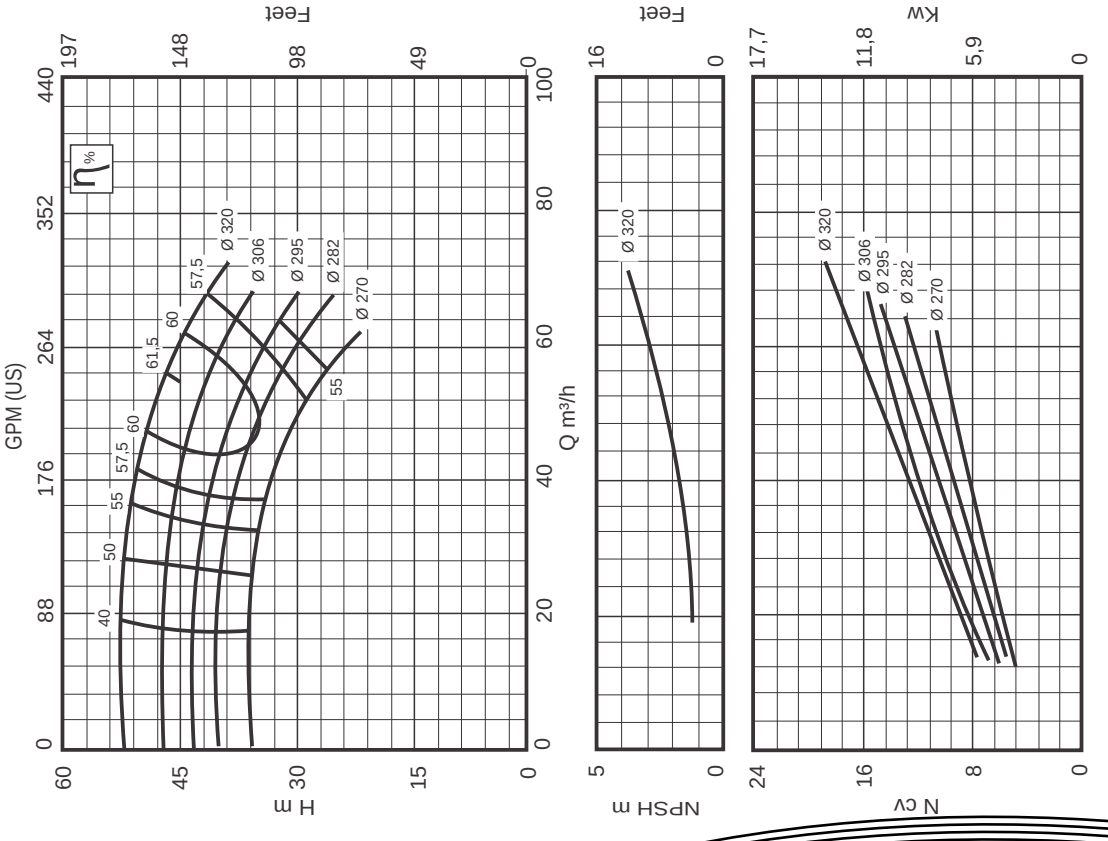
## INI 65-125 — 1750 rpm




**Impeller Ø Max. 141 mm**
**Impeller Ø Min. 113 mm**
**Impeller of Width 25 mm**
**Viscosity μ = 1cP**

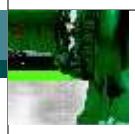
**Suction Flange 100 mm**
**Pressure Flange 65 mm**
**Specific Weigth γ= 1kgf/dm³**

## INI 50-315 — 1750 rpm




**Impeller Ø Max. 320 mm**
**Impeller Ø Min. 270 mm**
**Impeller of Width 9 mm**
**Viscosity μ = 1cP**

**Suction Flange 80 mm**
**Pressure Flange 50 mm**
**Specific Weigth γ= 1kgf/dm³**



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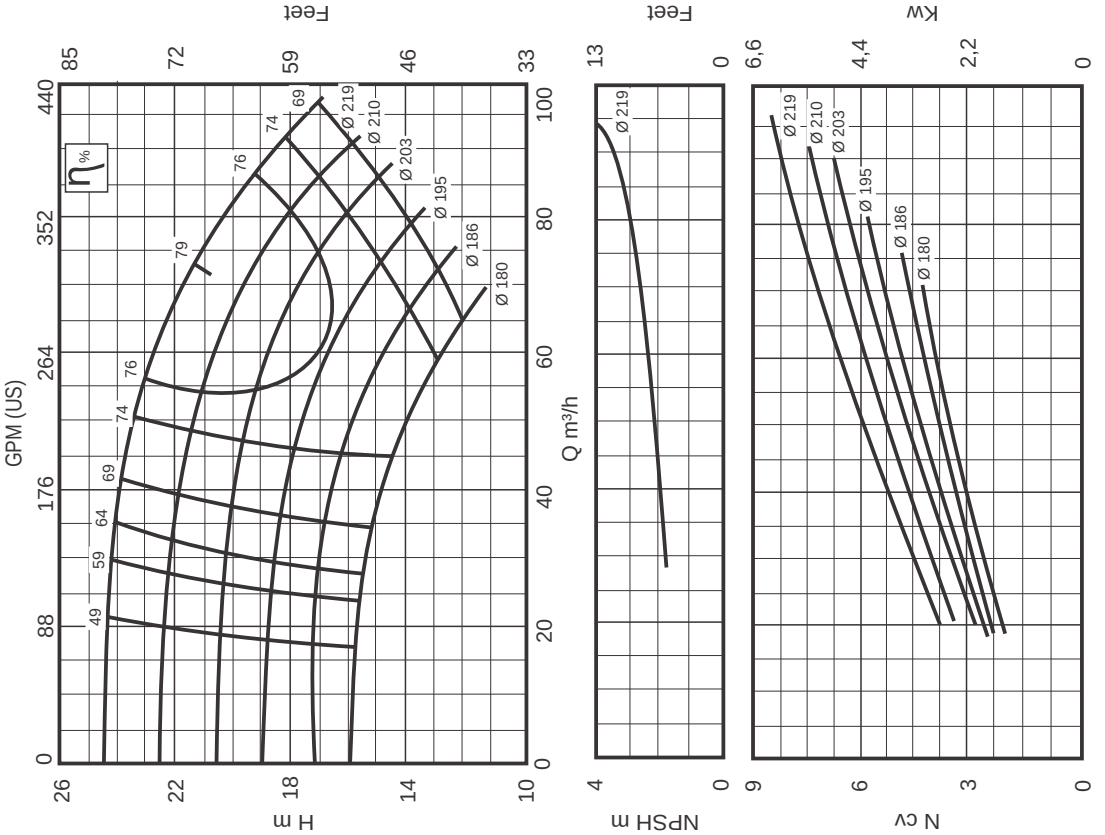
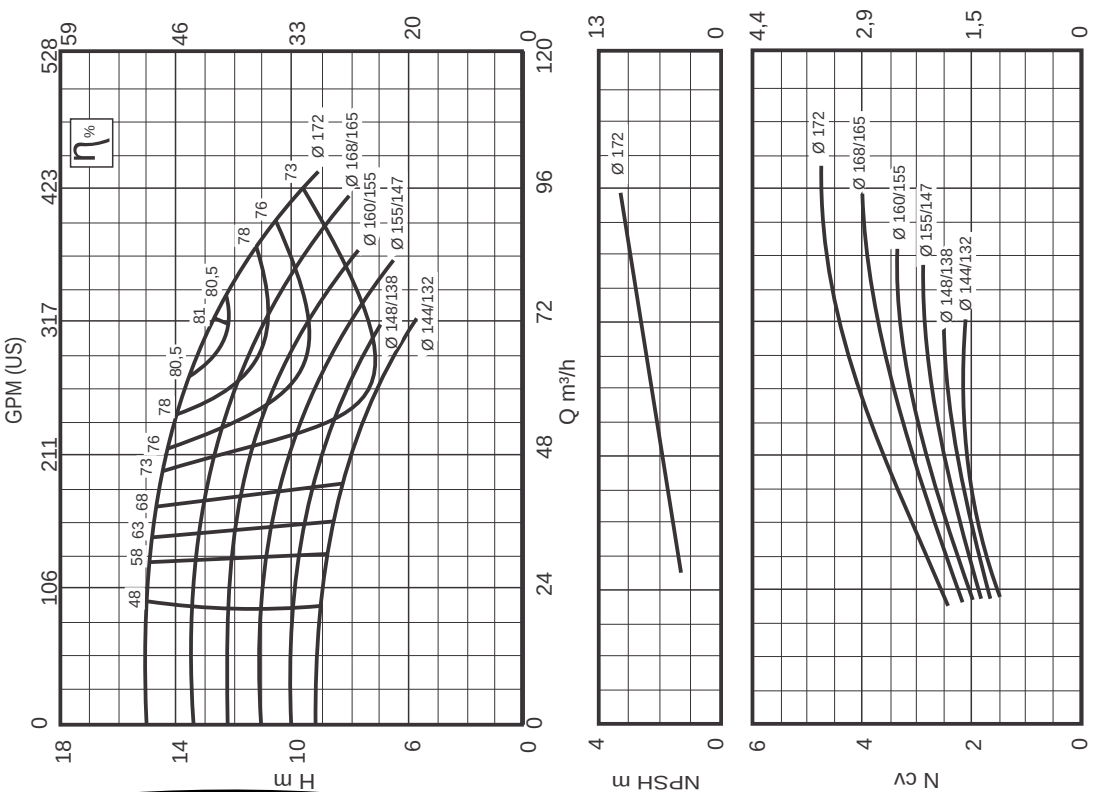
## INI 65-200 — 1750 rpm




**Impeller Ø Max. 219 mm**
**Impeller Ø Min. 180 mm**
**Impeller of Width 17 mm**
**Viscosity μ = 1cP**

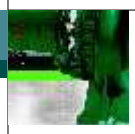
**Suction Flange 100 mm**
**Pressure Flange 65 mm**
**Specific Weigth γ= 1kgf/dm³**

## INI 65-160 — 1750 rpm




**Impeller Ø Max. 172 mm**
**Impeller Ø Min. 144/132 mm**
**Impeller of Width 21 mm**
**Viscosity μ = 1cP**

**Suction Flange 100 mm**
**Pressure Flange 65 mm**
**Specific Weigth γ= 1kgf/dm³**



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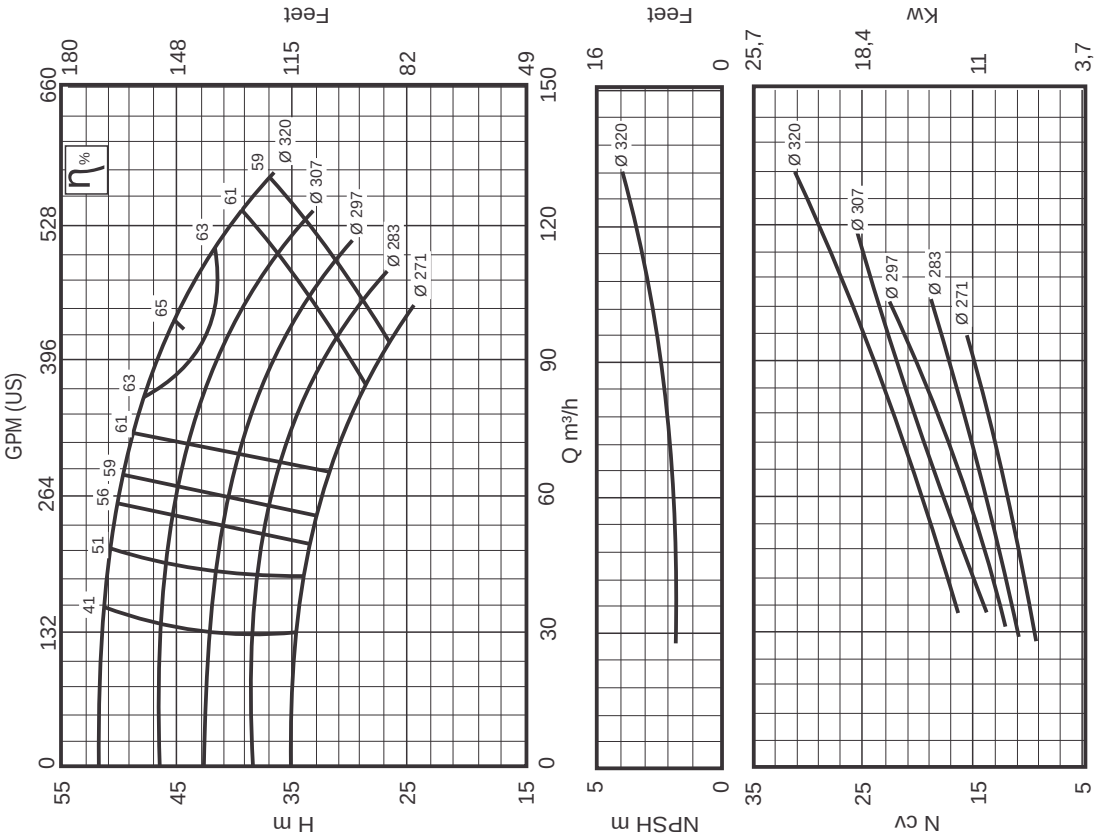
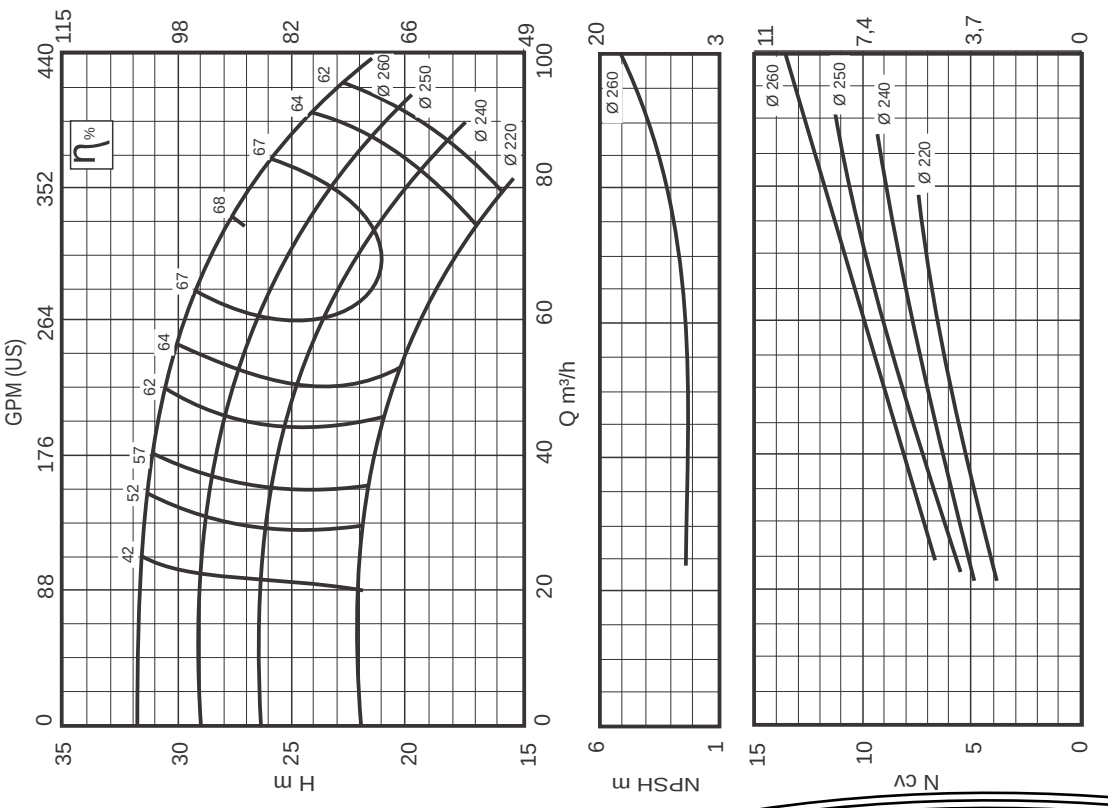
## INI 65-315 — 1750 rpm




**Suction Flange 100 mm**
**Pressure Flange 65 mm**
**Specific Weigth y= 1kgf/dm³**

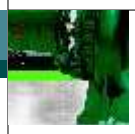
**Impeller Ø Max. 320 mm**
**Impeller Ø Min. 271 mm**
**Impeller of Width 13 mm**
**Viscosity μ = 1cP**

## INI 65-250 — 1750 rpm




**Suction Flange 100 mm**
**Pressure Flange 65 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 260 mm**
**Impeller Ø Min. 220 mm**
**Impeller of Width 13 mm**
**Viscosity μ = 1cP**



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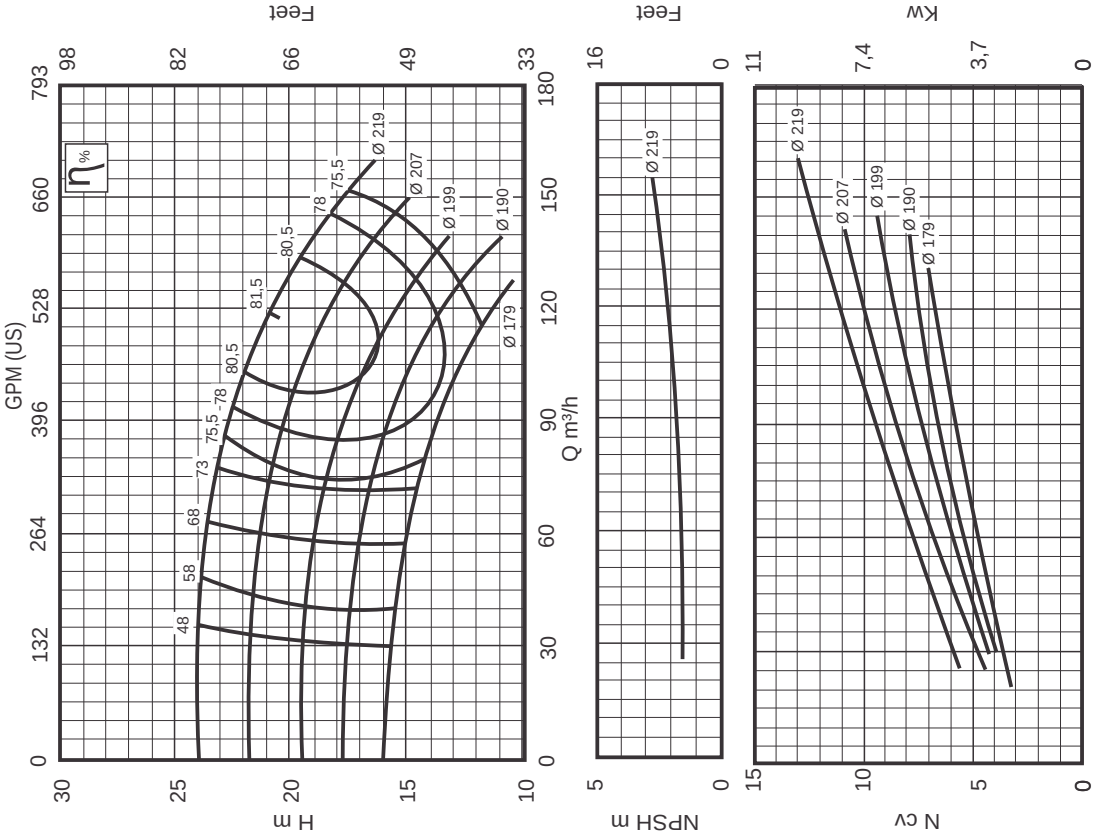
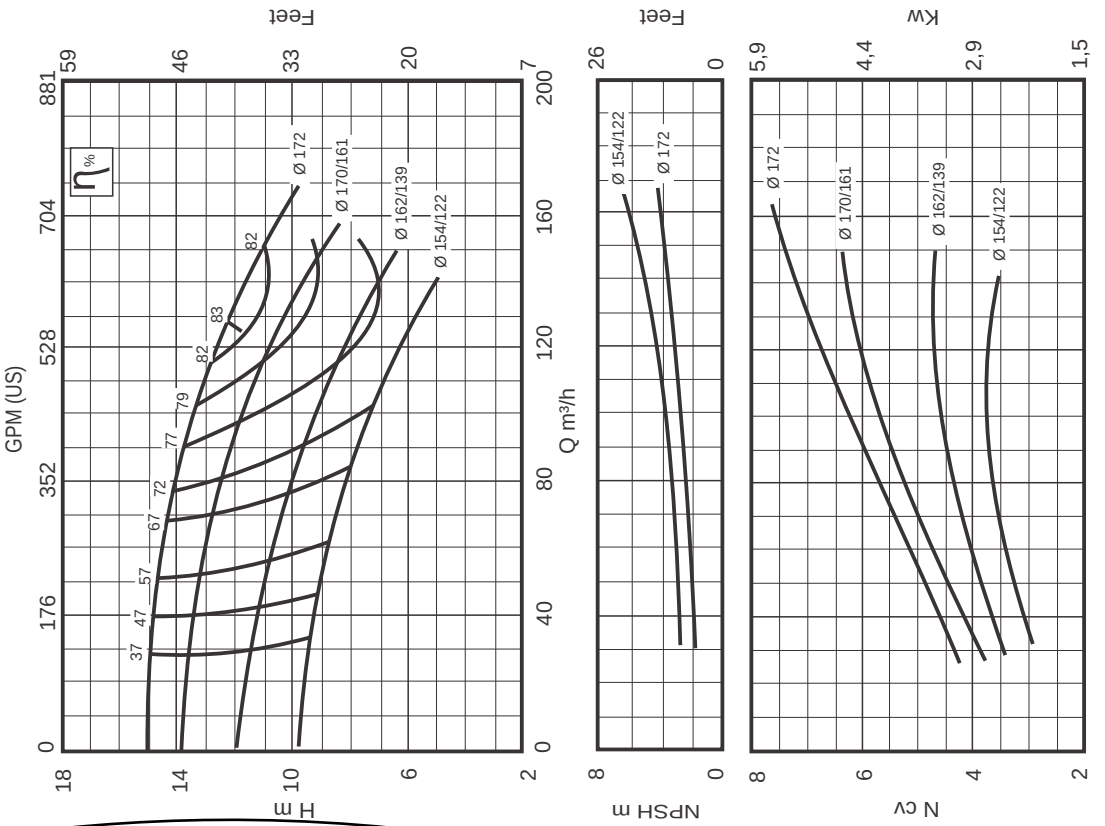
## INI 80-200 — 1750 rpm




**Impeller Ø Max. 219 mm**
Impeller Ø Min. 179 mm
Impeller of Width 23 mm
Viscosity μ = 1cP

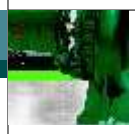
**Suction Flange 125 mm**
Pressure Flange 80 mm
Specific Weigth γ= 1kgf/dm³

## INI 80-160 — 1750 rpm




**Impeller Ø Max. 172 mm**
Impeller Ø Min. 154/122 mm
Impeller of Width 31 mm
Viscosity μ = 1cP

**Suction Flange 125 mm**
Pressure Flange 80 mm
Specific Weigth γ= 1kgf/dm³



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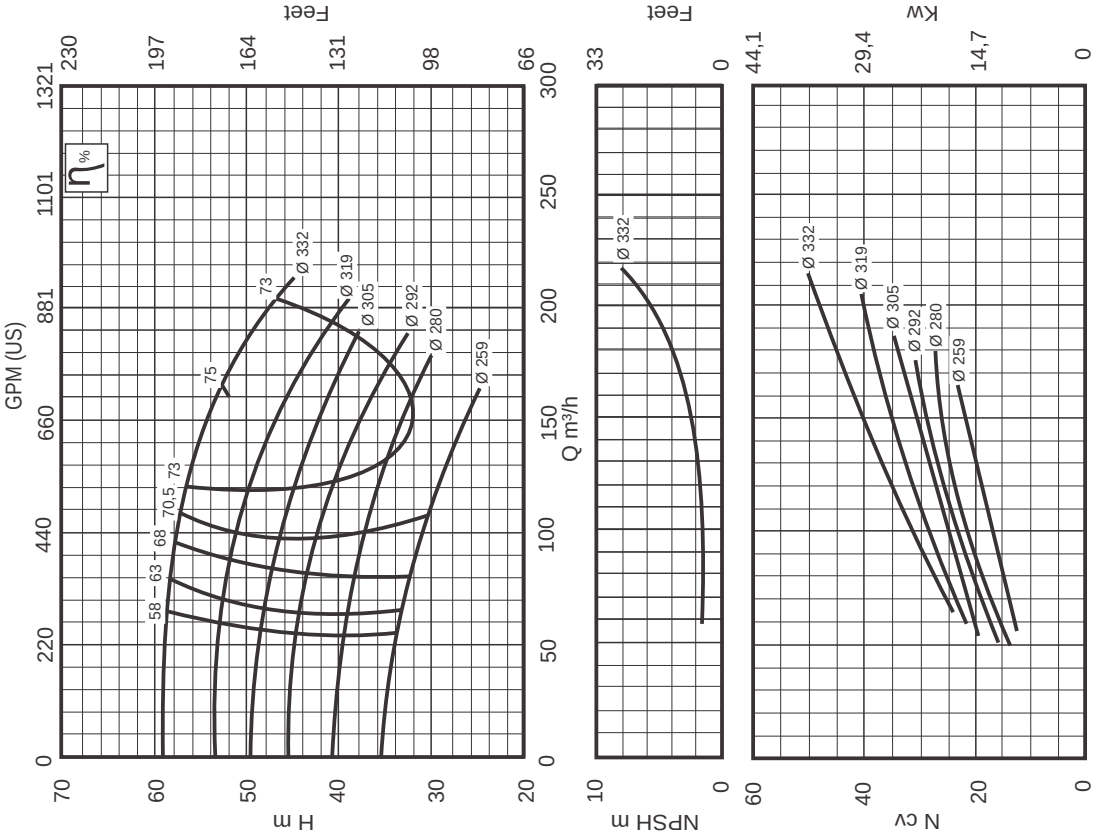
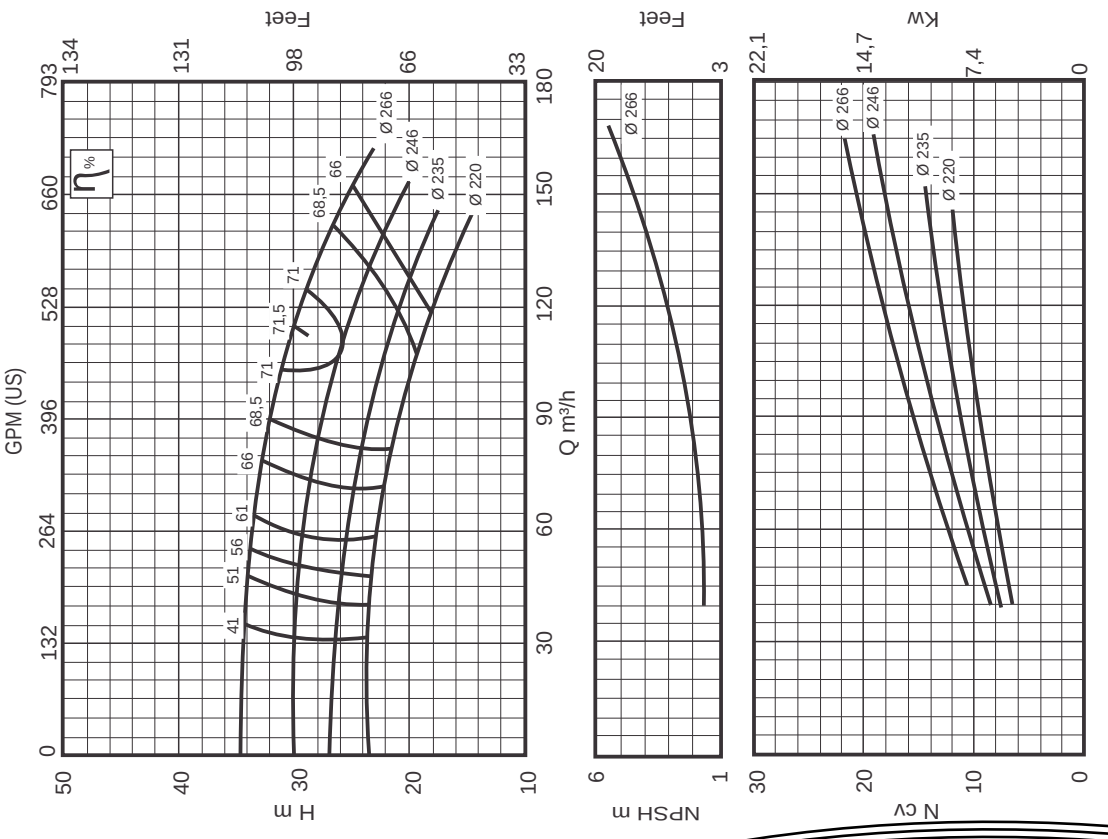
## INI 80-315 — 1750 rpm




**Suction Flange 125 mm**
**Pressure Flange 80 mm**
**Specific Weigth y= 1kgf/dm³**

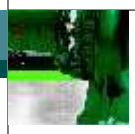
**Impeller Ø Max. 332 mm**
**Impeller Ø Min. 259 mm**
**Impeller of Width 18 mm**
**Viscosity μ = 1cP**

## INI 80-250 — 1750 rpm




**Suction Flange 125 mm**
**Pressure Flange 80 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 266 mm**
**Impeller Ø Min. 220 mm**
**Impeller of Width 19 mm**
**Viscosity μ = 1cP**



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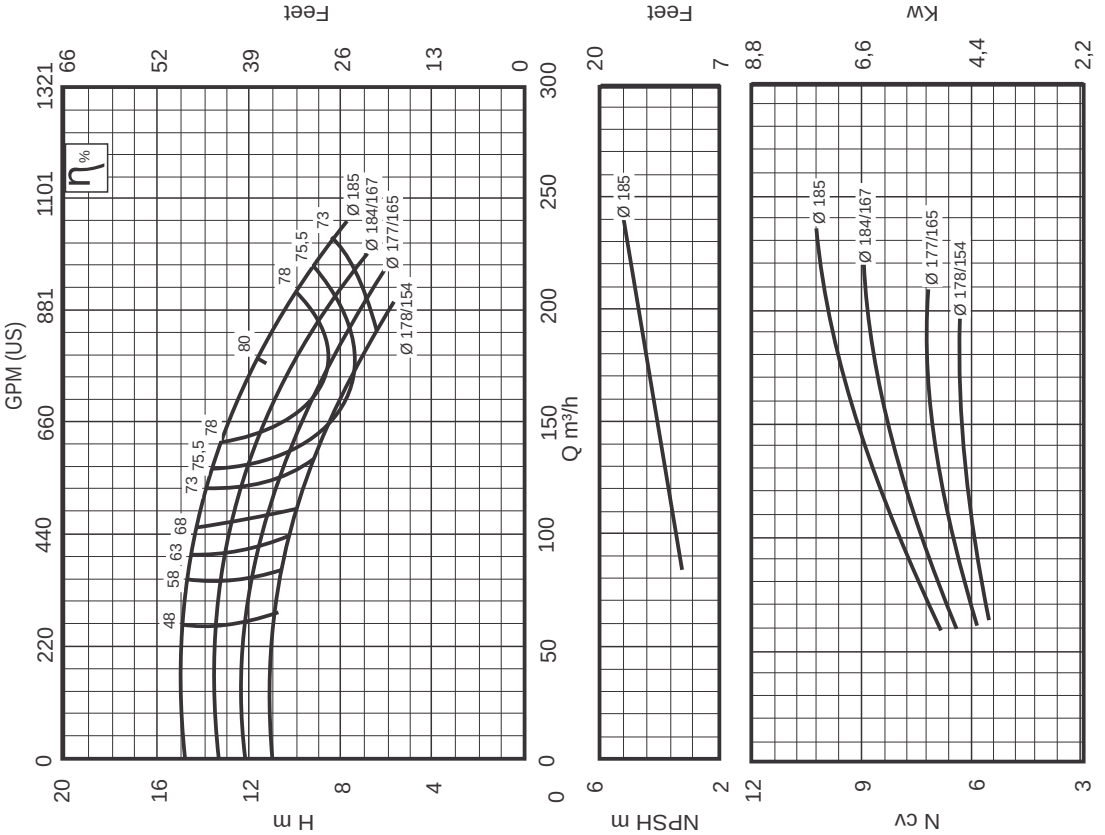
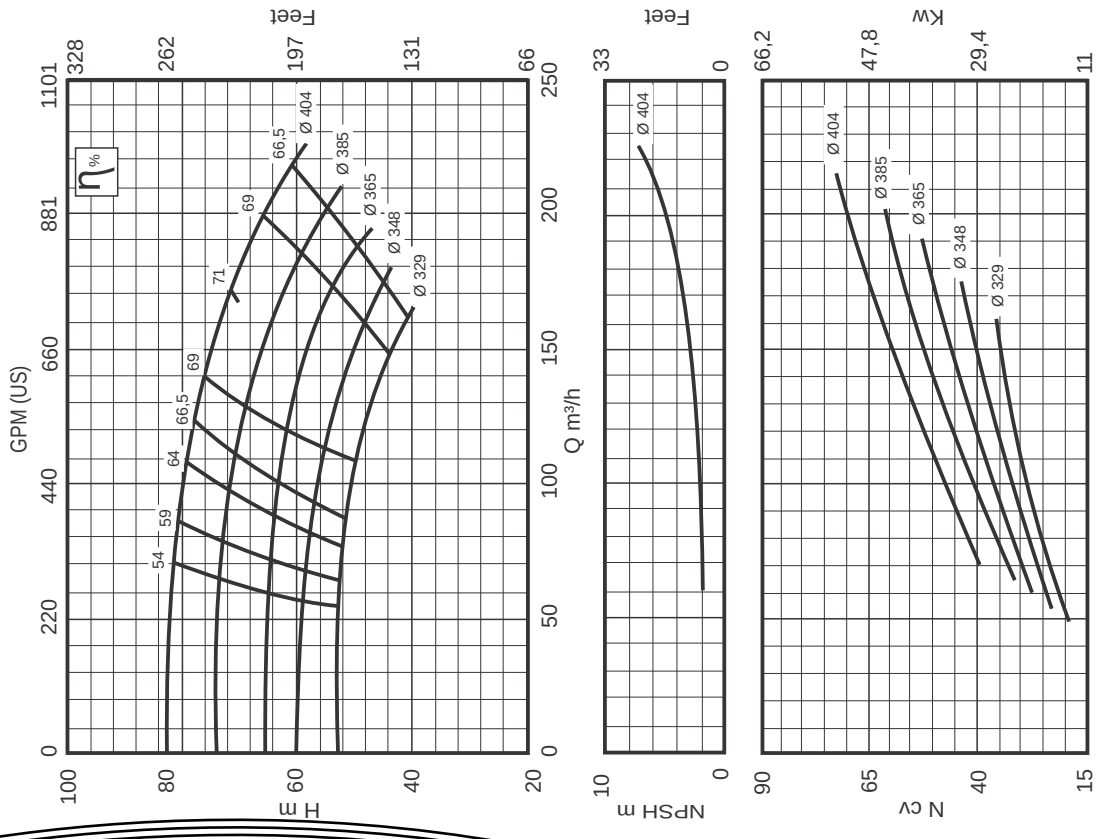
## INI 100-160 — 1750 rpm




**Impeller Ø Max. 185 mm**
**Impeller Ø Min. 178/154 mm**
**Impeller of Width 36 mm**
**Viscosity μ = 1cP**

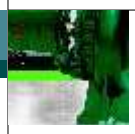
**Suction Flange 125 mm**
**Pressure Flange 80 mm**
**Specific Weigth y= 1kgf/dm³**

## INI 80-400 — 1750 rpm




**Impeller Ø Max. 404 mm**
**Impeller Ø Min. 329 mm**
**Impeller of Width 13 mm**
**Viscosity μ = 1cP**

**Suction Flange 125 mm**
**Pressure Flange 80 mm**
**Specific Weigth y= 1kgf/dm³**



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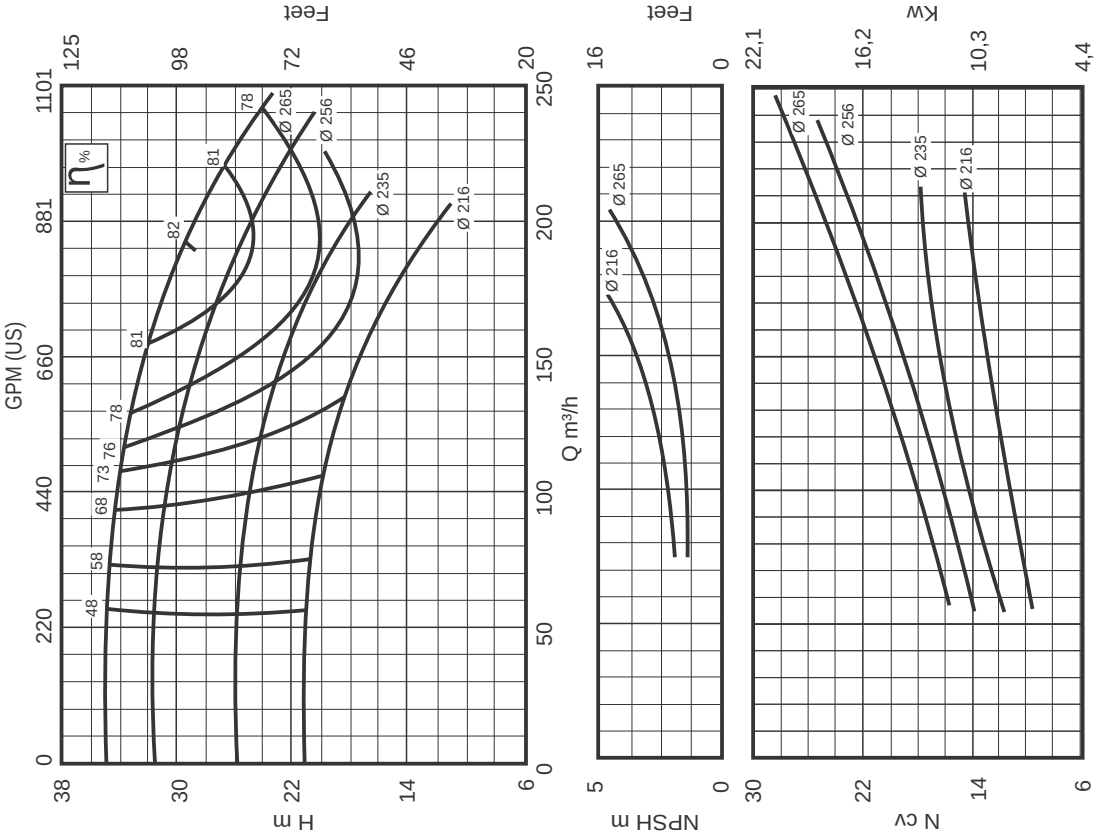
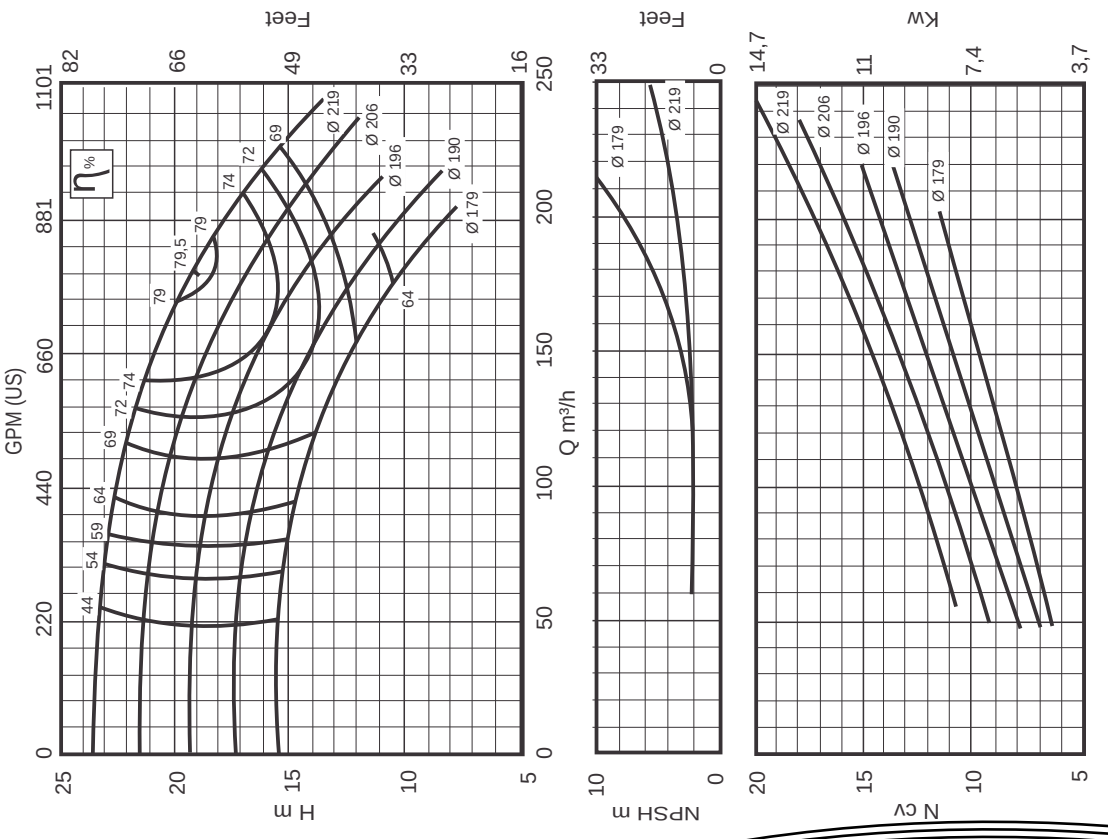
## INI 100-250 — 1750 rpm




**Suction Flange 125 mm**
**Pressure Flange 100 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 265 mm**
**Impeller Ø Min. 216 mm**
**Impeller of Width 27 mm**
**Viscosity μ = 1cP**

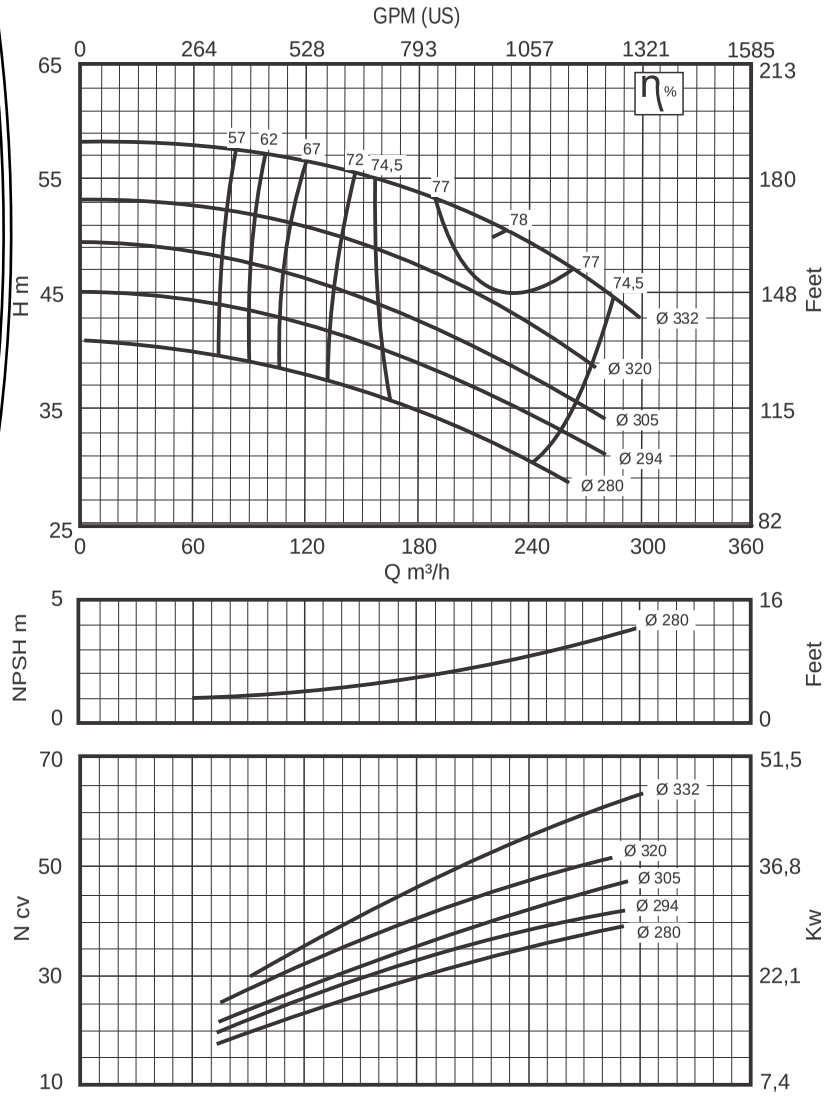
## INI 100-200 — 1750 rpm




**Suction Flange 125 mm**
**Pressure Flange 100 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 219 mm**
**Impeller Ø Min. 179 mm**
**Impeller of Width 32 mm**
**Viscosity μ = 1cP**

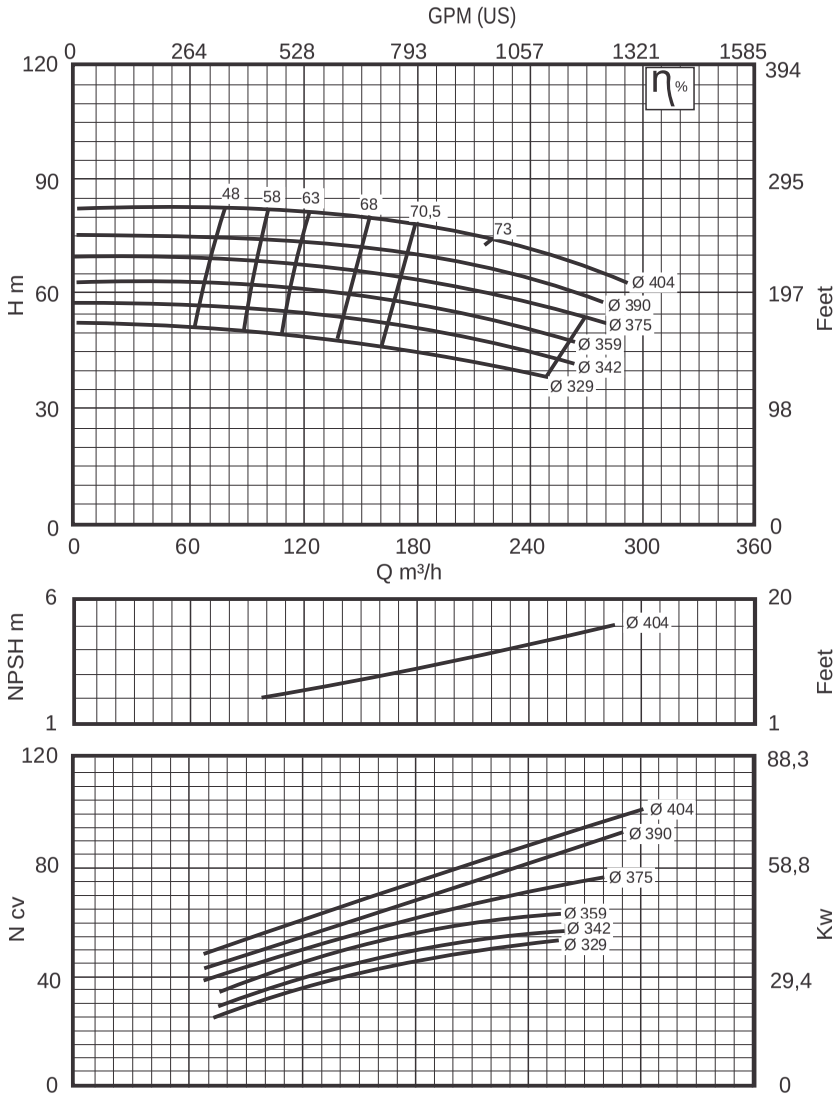
## INI 100-315 — 1750 rpm




**Impeller Ø Max. 332 mm**
Impeller Ø Min. 280 mm
Impeller of Width 23 mm
Viscosity μ = 1cP

**Suction Flange 125 mm**
Pressure Flange 100 mm
Specific Weigth y= 1kgf/dm³

## INI 100-400 — 1750 rpm




**Impeller Ø Max. 404 mm**
Impeller Ø Min. 329 mm
Impeller of Width 17 mm
Viscosity μ = 1cP

**Suction Flange 125 mm**
Pressure Flange 100 mm
Specific Weigth y= 1kgf/dm³

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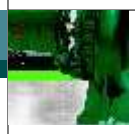

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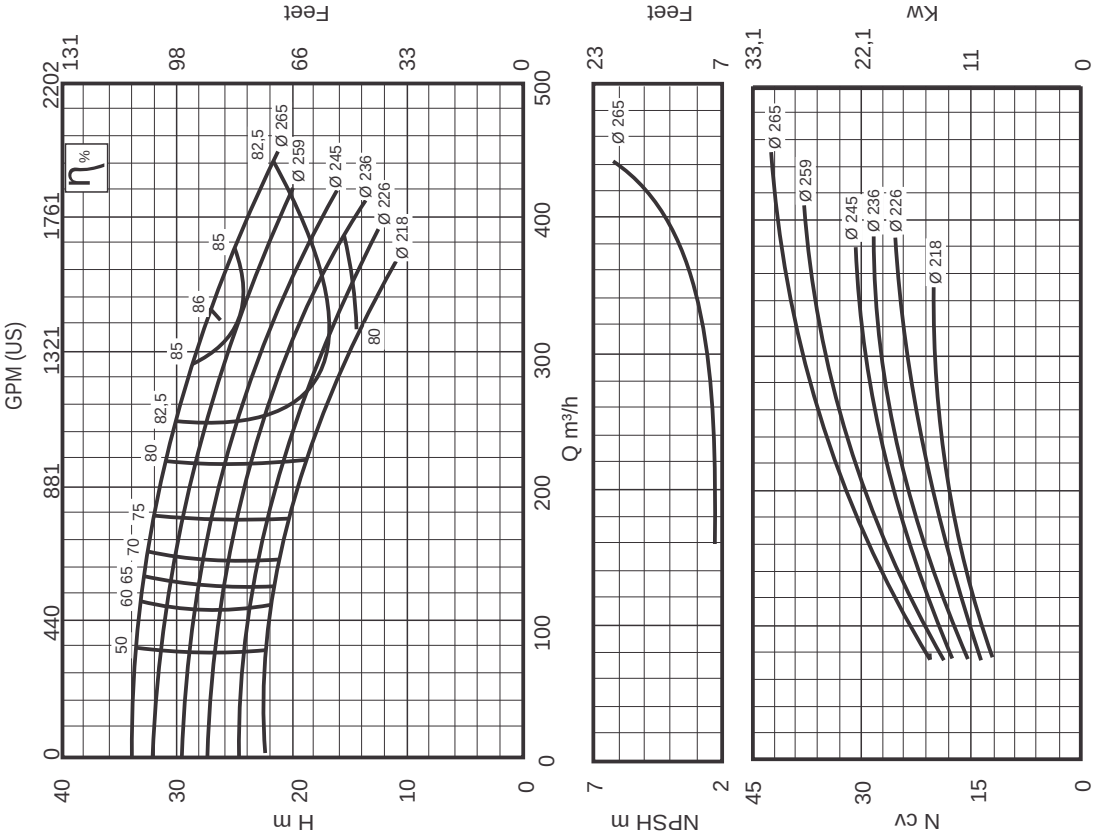
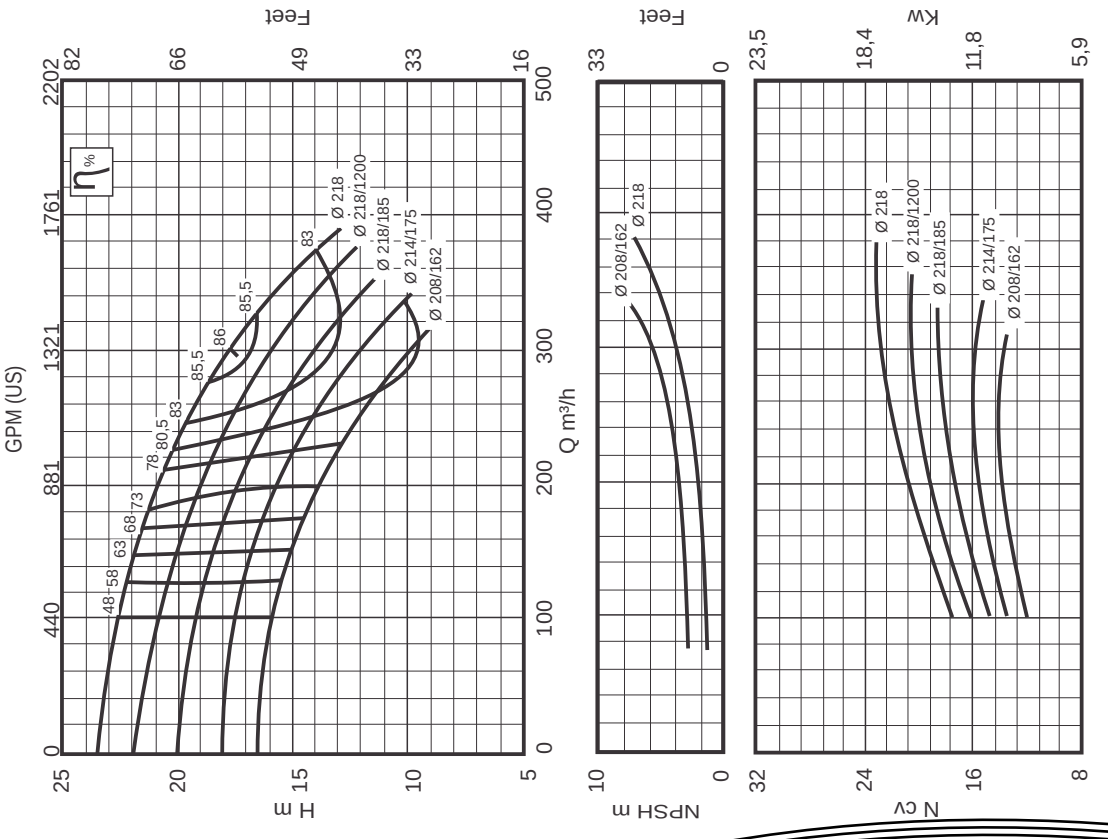
## INI 125-250 — 1750 rpm




**Impeller Ø Max. 265 mm**
**Impeller Ø Min. 218 mm**
**Impeller of Width 37 mm**
**Viscosity μ = 1cP**

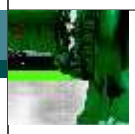
**Suction Flange 150 mm**
**Pressure Flange 125 mm**
**Specific Weigth y= 1kgf/dm³**

## INI 125-200 — 1750 rpm




**Impeller Ø Max. 218 mm**
**Impeller Ø Min. 208/162 mm**
**Impeller of Width 40 mm**
**Viscosity μ = 1cP**

**Suction Flange 150 mm**
**Pressure Flange 120 mm**
**Specific Weigth y= 1kgf/dm³**



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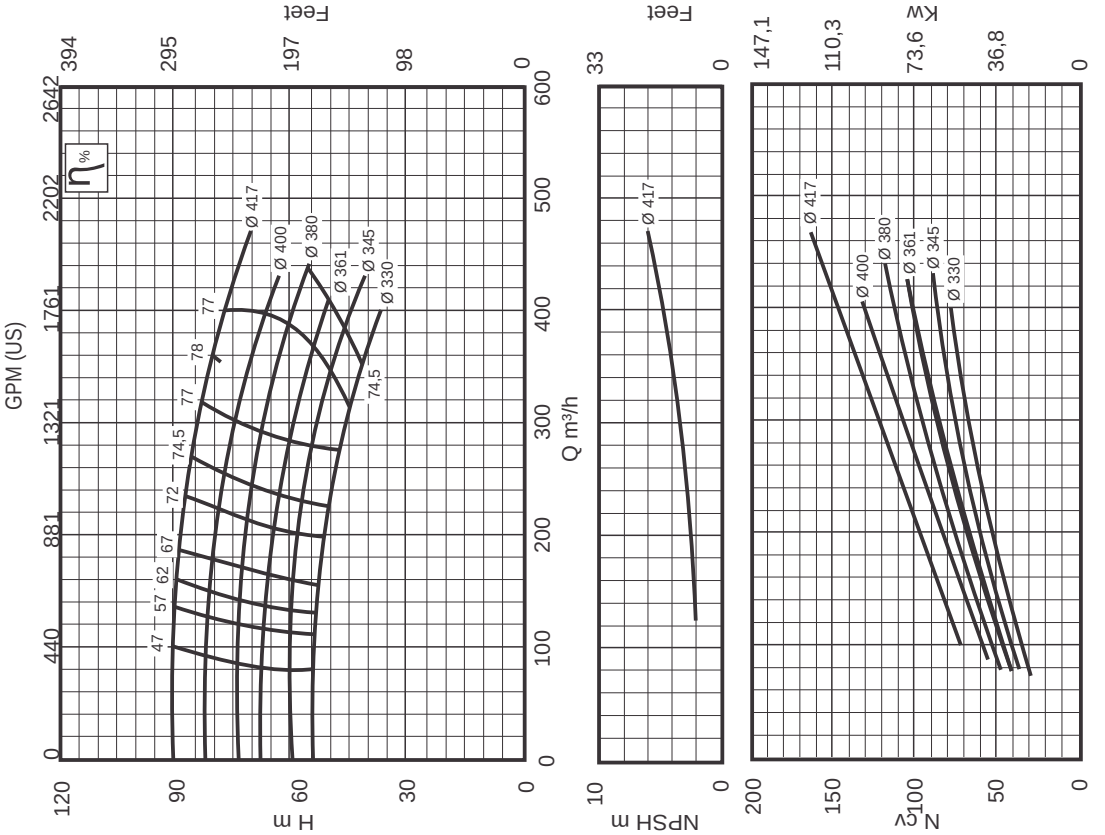
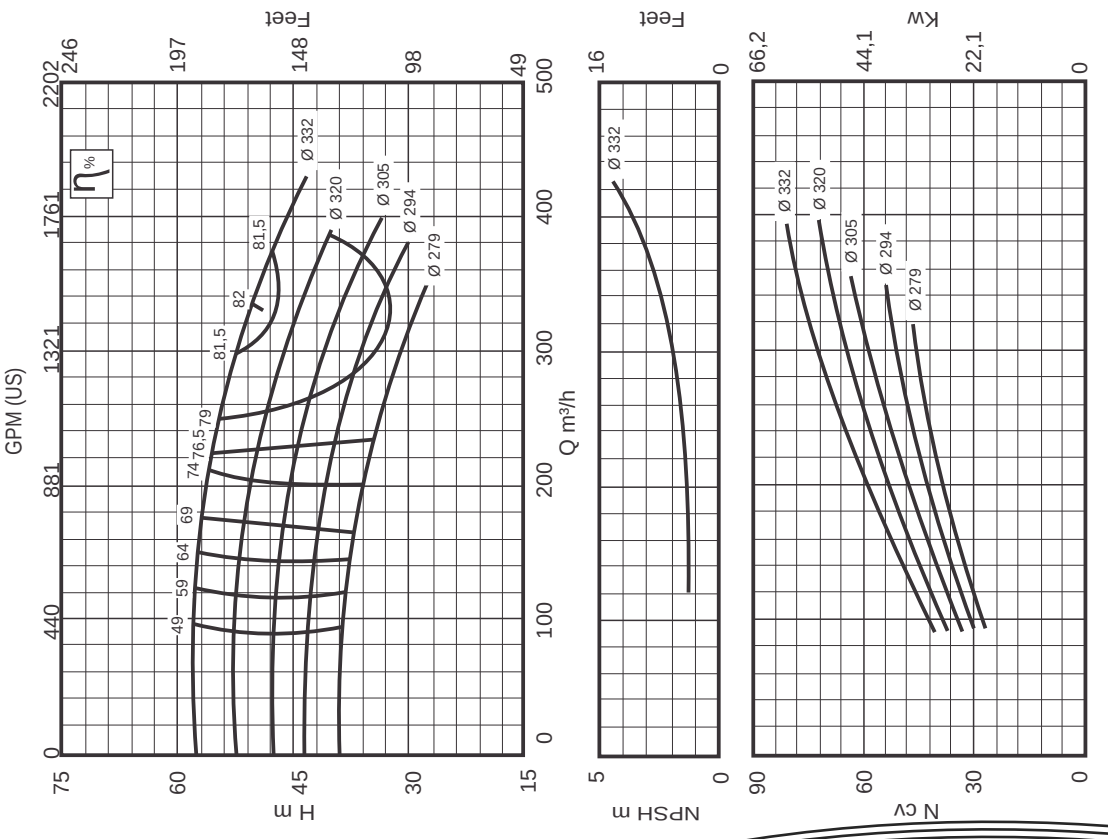
## INI 125 -400 — 1750 rpm




**Suction Flange 150 mm**
**Pressure Flange 125 mm**
**Specific Weigth y= 1kgf/dm³**

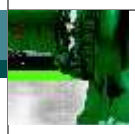
**Impeller Ø Max. 417 mm**
**Impeller Ø Min. 330 mm**
**Impeller of Width 25 mm**
**Viscosity μ = 1cP**

## INI 125-315 — 1750 rpm




**Suction Flange 150 mm**
**Pressure Flange 125 mm**
**Specific Weigth y= 1kgf/dm³**

**Impeller Ø Max. 218 mm**
**Impeller Ø Min. 218/153 mm**
**Impeller of Width 59 mm**
**Viscosity μ = 1cP**



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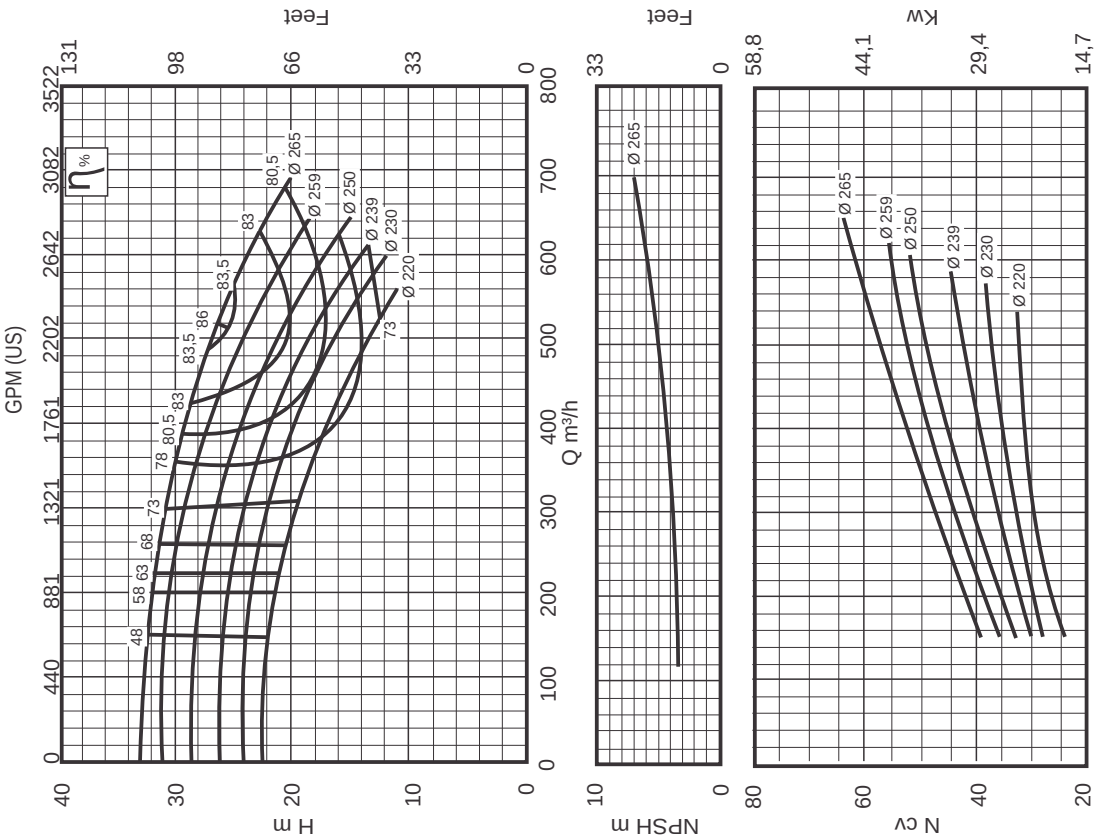
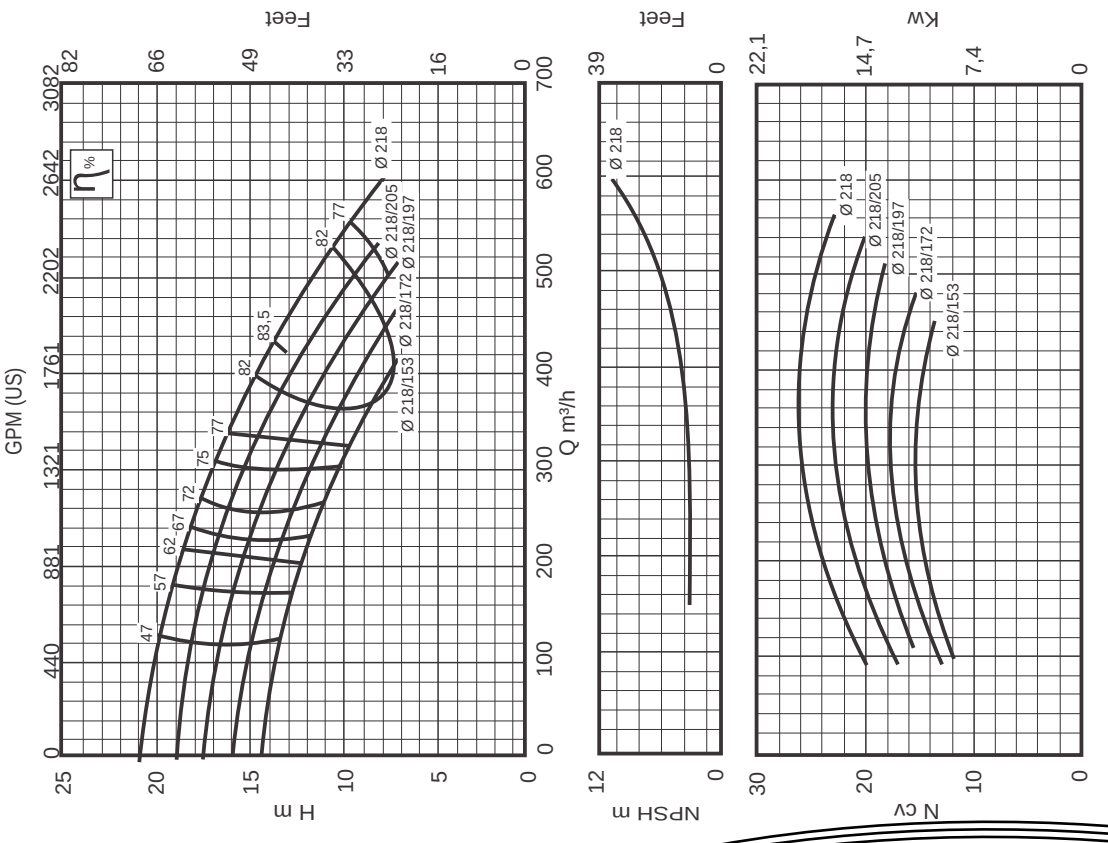
## INI 150-250 — 1750 rpm




**Impeller Ø Max. 265 mm**
**Impeller Ø Min. 220 mm**
**Impeller of Width 12 mm**
**Viscosity μ = 1cP**

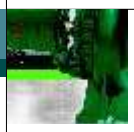
**Suction Flange 200 mm**
**Pressure Flange 150 mm**
**Specific Weigth γ= 1kgf/dm³**

## INI 150-200 — 1750 rpm




**Impeller Ø Max. 218 mm**
**Impeller Ø Min. 218/153 mm**
**Impeller of Width 59 mm**
**Viscosity μ = 1cP**

**Suction Flange 200 mm**
**Pressure Flange 150 mm**
**Specific Weigth γ= 1kgf/dm³**



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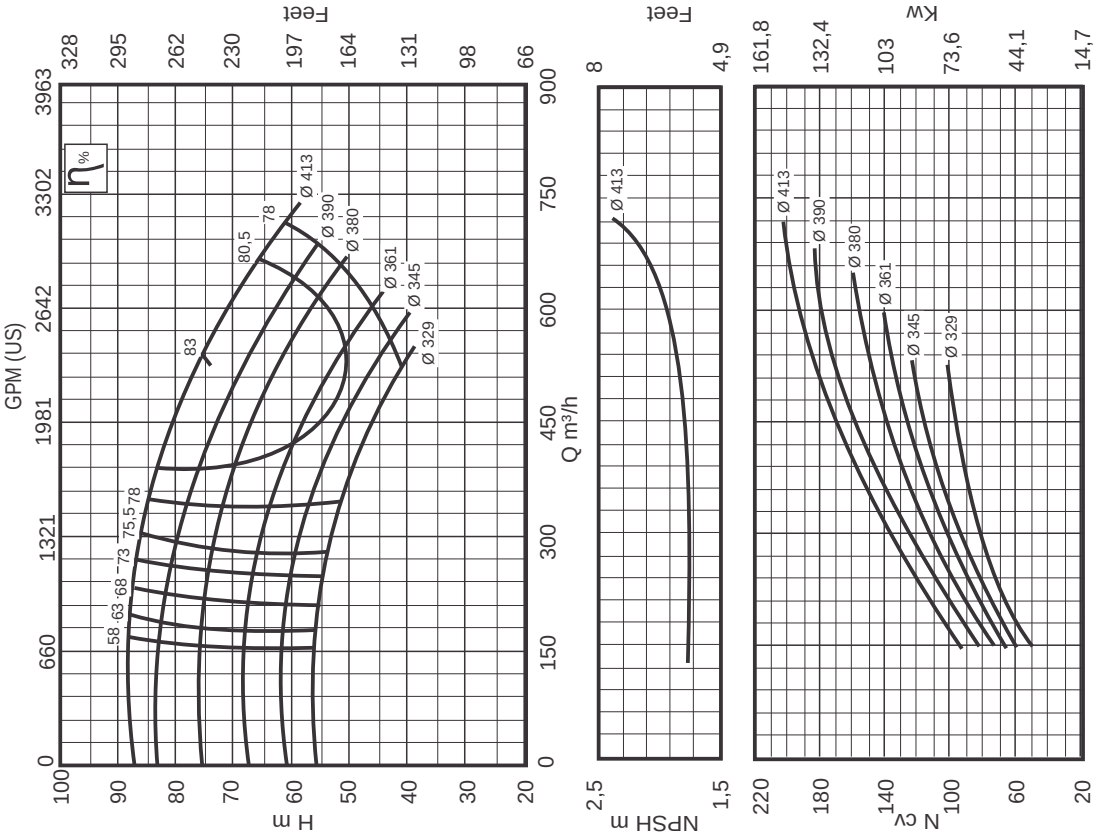
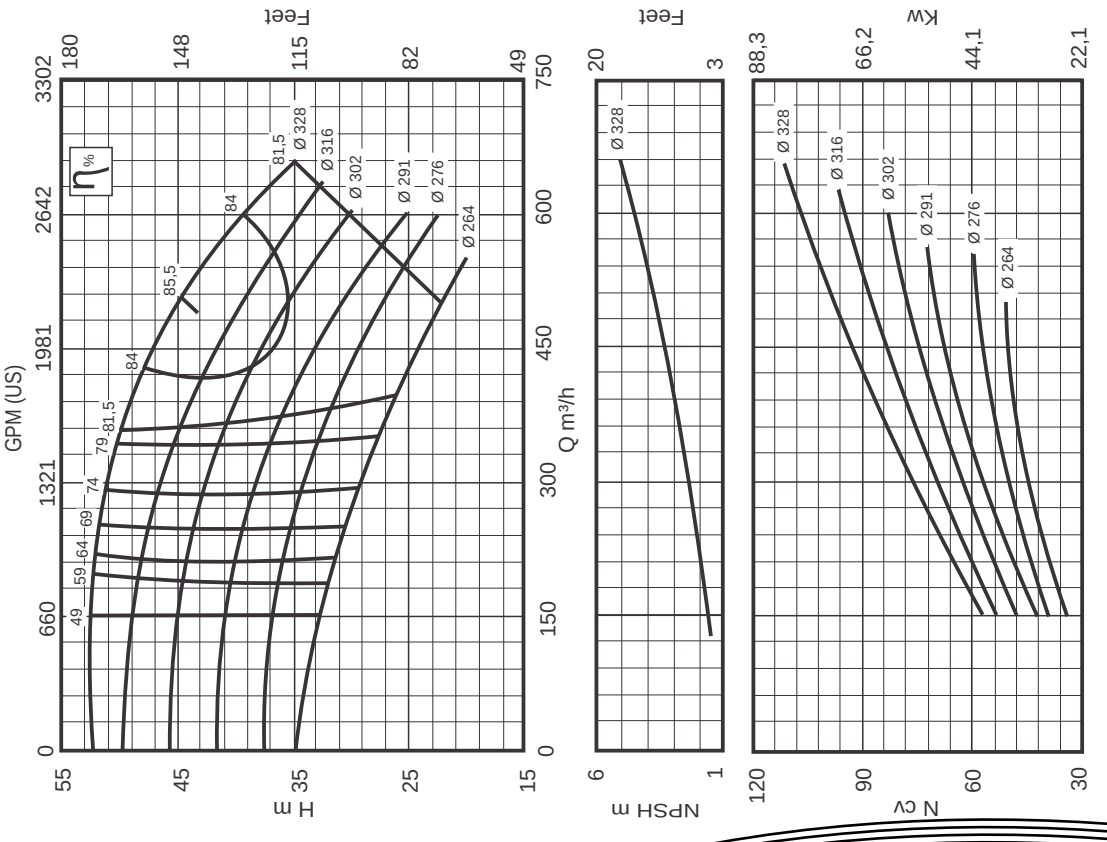
## INI 150-400 — 1750 rpm

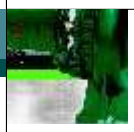



**Impeller Ø Max. 413 mm**
**Impeller Ø Min. 329 mm**
**Impeller of Width 33 mm**
**Viscosity μ = 1cP**

**Suction Flange 200 mm**
**Pressure Flange 150 mm**
**Specific Weigth γ= 1kgf/dm³**

## INI 150-315 — 1750 rpm




**Impeller Ø Max. 328 mm**
**Impeller Ø Min. 264 mm**
**Impeller of Width 39 mm**
**Viscosity μ = 1cP**

**Suction Flange 200 mm**
**Pressure Flange 150 mm**
**Specific Weigth γ= 1kgf/dm³**