

SERIES

INI



 **IMBIL**<sup>®</sup>  
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.

## APPLICATION INI

Pumping of liquids in wastewater, 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.



## APPLICATION 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 (130° C) - NBR 7094

Service Factor: 1.15 (up to 50 HP) – 1.00 (above 50 HP)

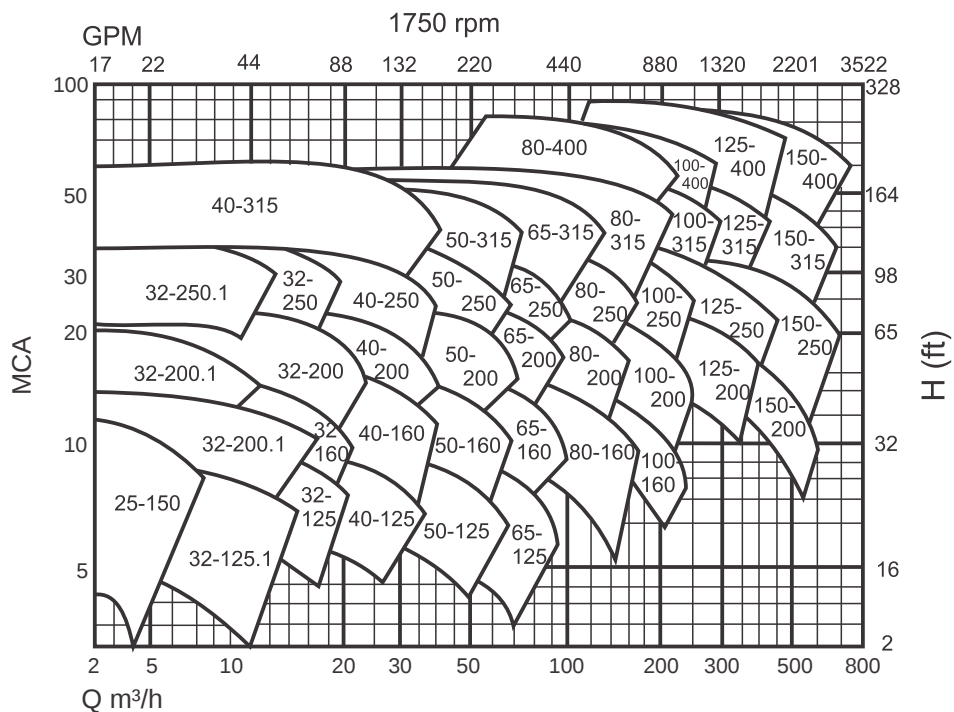
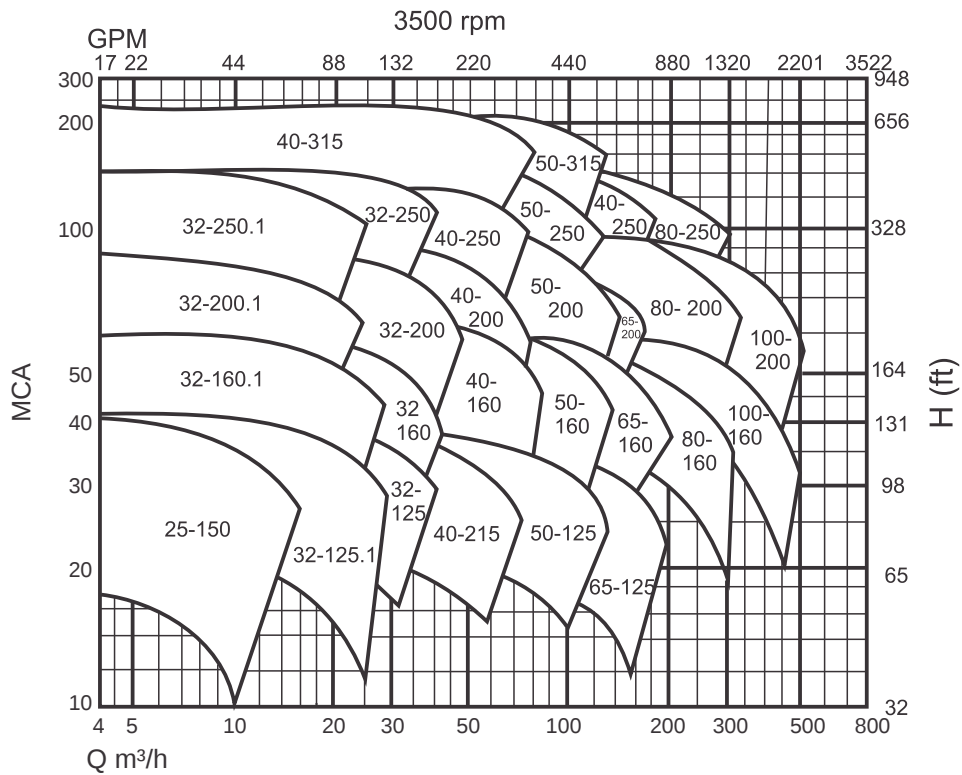
Rotation: 3500/ 1750 RPM

Frequency: 60Hz

Note: when purchasing the pump kit (without the motor), please inform the motor manufacturer.



## Range Coverage Chart



## TECHNICAL DATA

### - Suction Maximum Pressure (bar):

10 bar

### - Discharge Maximum Pressure according to the Temperature:

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 °C.

With Mechanical Seal according to manufacturer recommendation.

### - Minimum/Maximum Temperature for models

#### with refrigeration chamber (C°):

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

I 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  $\dot{V}_t$  of 15 °C. The maximum temperature at the cooling chamber outlet is 50 °C

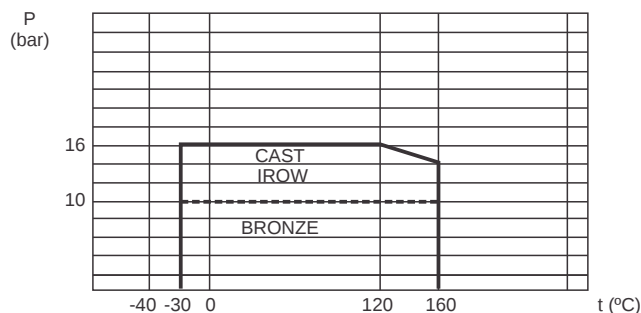
| Models                                                                |              | Unit     | 25-150<br>32-125.1<br>32-160.1<br>32-200.1<br>32-125<br>32-160<br>32-200<br>40-125<br>40-160<br>40-200<br>50-125<br>50-160<br>50-200<br>65-125 |                 |        |        |        |        |        |        |        |        |        |        |        |        | 32-250.1<br>32-250<br>40-250<br>50-250<br>65-160<br>80-160<br>80-200 |         |           |        |           |                  | 40-315<br>50-315<br>65-250<br>80-200<br>80-250<br>100-160<br>100-200 |         |                  |         |        |        | 65-315<br>80-315<br>80-400<br>100-250<br>100-315<br>100-400<br>125-200<br>125-250<br>125-315<br>125-400<br>150-200<br>150-250 |        |        |         |        |        | 150-315<br>150-400 |        |        |        |        |        |        |        |        |        |    |
|-----------------------------------------------------------------------|--------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------------------------------------------------------|---------|-----------|--------|-----------|------------------|----------------------------------------------------------------------|---------|------------------|---------|--------|--------|-------------------------------------------------------------------------------------------------------------------------------|--------|--------|---------|--------|--------|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| Bearing Housing                                                       |              |          | 130                                                                                                                                            |                 |        |        |        |        |        |        |        |        |        |        |        |        | 140                                                                  |         |           |        |           |                  | 140 R                                                                |         |                  |         |        |        | 150                                                                                                                           |        |        |         |        |        | 160                |        |        |        |        |        |        |        |        |        |    |
| Impeller width                                                        |              |          | mm                                                                                                                                             | 6               | 6      | 7      | 5      | 6      | 6      | 5      | 6      | 14     | 12     | 9      | 20     | 25     | 8                                                                    | 8       | 8         | 12     | 21        | 17               | 31                                                                   | 9       | 9                | 13      | 13     | 13     | 23                                                                                                                            | 36     | 32     | 13      | 18     | 13     | 27                 | 23     | 17     | 40     | 37     | 30     | 25     | 59     | 48     | 39     | 33 |
| GD <sup>2</sup> rotating set with water                               |              |          | Kg.m <sup>2</sup>                                                                                                                              | 0.0216          | 0.0140 | 0.0224 | 0.0760 | 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     | 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 °C       |          | 1,2                                                                                                                                            |                 |        |        |        |        |        |        |        |        |        |        |        |        | 2,2                                                                  |         |           |        |           |                  |                                                                      |         |                  |         |        |        |                                                                                                                               |        | 3,1    |         |        |        |                    |        | 3,7    |        |        |        |        |        |        |        |    |
|                                                                       | 160 °C       |          | 1,5                                                                                                                                            |                 |        |        |        |        |        |        |        |        |        |        |        |        | 2,7                                                                  |         |           |        |           |                  |                                                                      |         |                  |         |        |        |                                                                                                                               |        | 3,3    |         |        |        |                    |        | 4,5    |        |        |        |        |        |        |        |    |
|                                                                       | 200 °C       |          | 2,2                                                                                                                                            |                 |        |        |        |        |        |        |        |        |        |        |        |        | 3,3                                                                  |         |           |        |           |                  |                                                                      |         |                  |         |        |        |                                                                                                                               |        | 4,4    |         |        |        |                    |        | 4,7    |        |        |        |        |        |        |        |    |
|                                                                       | 250 °C       |          | 3,0                                                                                                                                            |                 |        |        |        |        |        |        |        |        |        |        |        |        | 4,0                                                                  |         |           |        |           |                  |                                                                      |         |                  |         |        |        |                                                                                                                               |        | 5,6    |         |        |        |                    |        | 7,3    |        |        |        |        |        |        |        |    |
|                                                                       | 350 °C       |          | 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

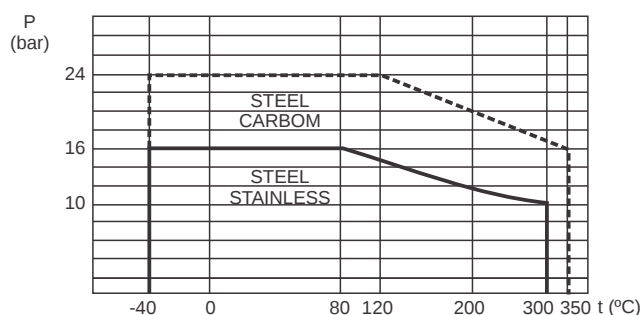
\*\*250Lb FF

\*\*\*Bearing Pump Side: NU 308 EC/Bearing Driver Side: 7308(2x)

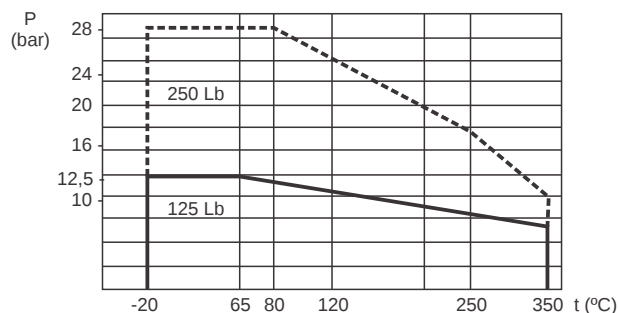
## TECHNICAL DATA



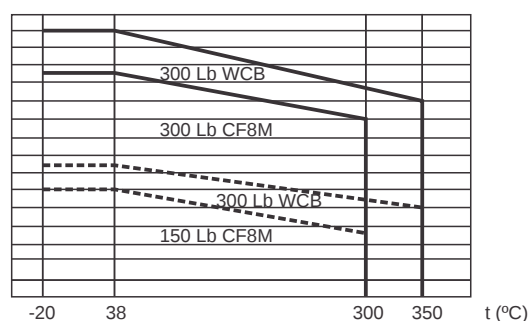
**Fig. 1** – Maximum discharge pressure according to temperature.



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



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



**Fig. 4** - Flanges ANSI B 16.5. Accessible 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 |

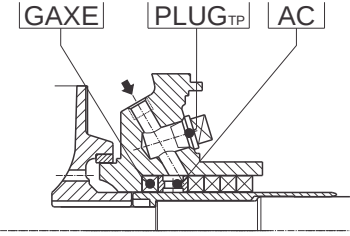
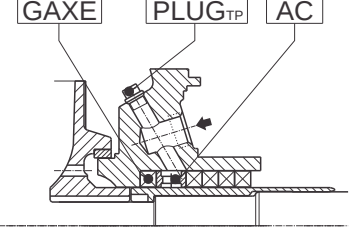
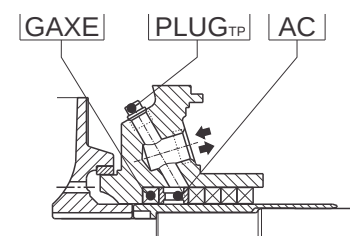
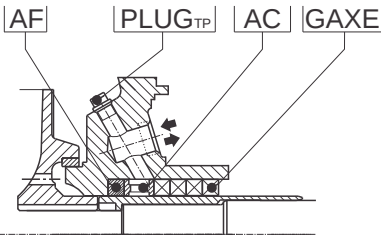
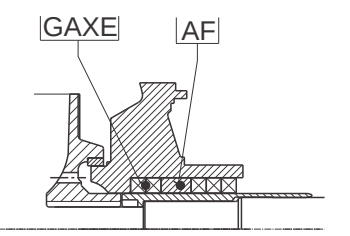
- The **NPSH** values required are found in the characteristic curves of each model, being necessary to add 0.5 m as a measure fabrication safety.

- 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/ dm<sup>3</sup>.

## TECHNICAL DATA

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

**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):**

$1 + \frac{DP}{2}$  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.

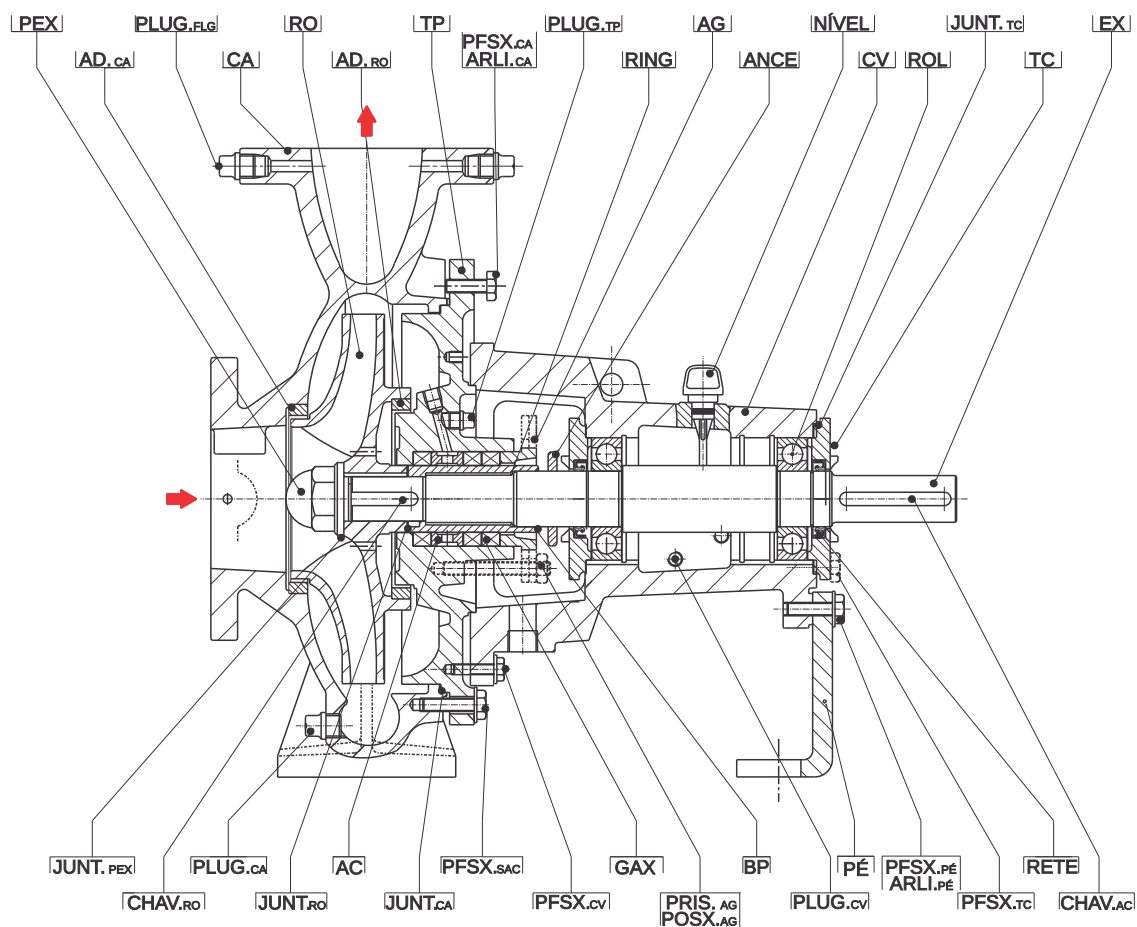
Up to 20 HP approximately 15% of reserve.

Over 20 HP approximately 10% of reserve.

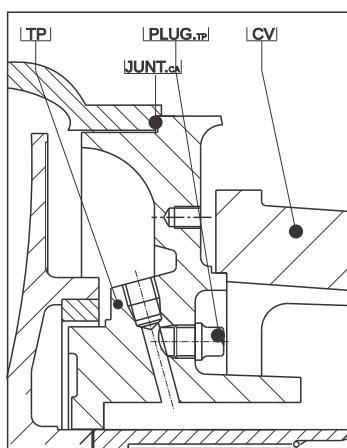
**The following accessories are optionally available:**

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

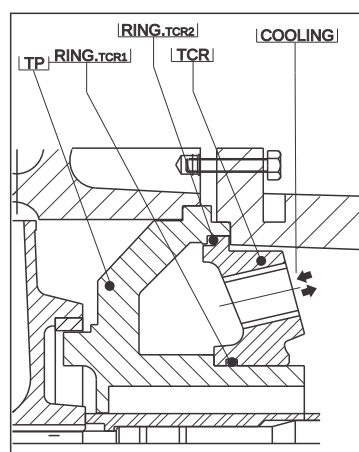
## CROSS SECTION AND IDENTIFICATION OF PARTS



DETAIL OF PRESSURE COVER



DETAIL COOLING CHAMBER



### For Models

|     |                    |                |
|-----|--------------------|----------------|
| 130 | 32, 40, 50, 65-125 | 32, 40, 50-160 |
| 140 | 65, 80-160         |                |
| 150 | 125, 150-200       |                |
| 160 | 150-315            |                |

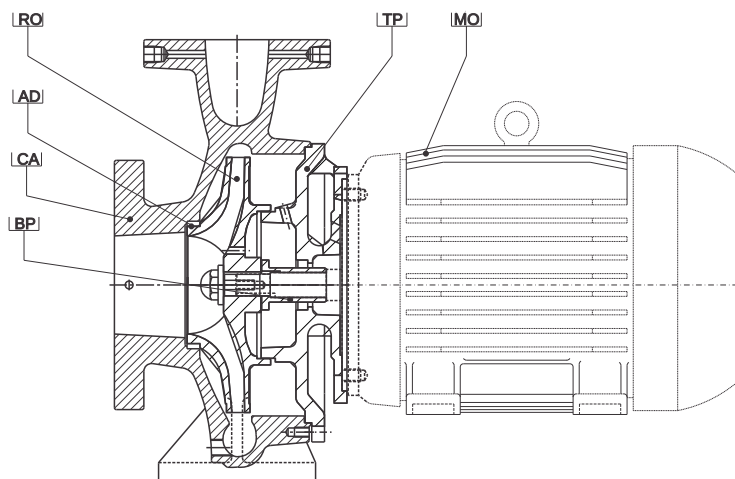


## PART LIST – INI

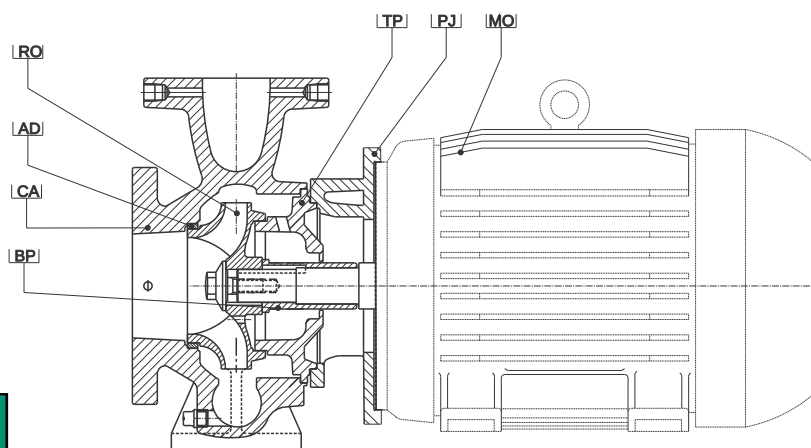
| Part      | Denomination                   | Ref. | Material        | Qty | Reference notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|--------------------------------|------|-----------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AC        | Lantern ring                   |      | A48 CL30        | 1   | <p>① Only applicable for sealing codes 4 and 5</p> <p>② Qty = 8 in models: 32/ 40/ 50/ 65/ 80/ 100-200 and 100-160<br/>Qty. = 10 in models: 32/ 40/ 50/ 65/ 80/ 100/ 125 and 150-250<br/>Qty. = 12 in models: 40/ 50/ 65/ 80/ 100 and 125-315<br/>Qty. = 16 in models: 80/ 100/ 125 and 150-400</p> <p>③ Only applicable for models with refrigeration</p> <p>④ Qty. = 6 for bearing housing I30 and I40.<br/>Qty. = 8 for bearing housing I50 and I60.</p> <p>⑤ Only applicable in models: 32/ 40/ 50/ 65/ 80/ 100-200<br/>32/ 40/ 50/ 65/ 80/ 100/ 125/ 150-250<br/>40/ 50/ 65/ 80/ 100 and 125-315<br/>80/ 100/ 125 and 150-400<br/>100-160</p> |
| 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   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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    |      | Velumoiide      | 2   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| JUNT.RO   | Impeller joint                 |      | K. oilit        | 1   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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)

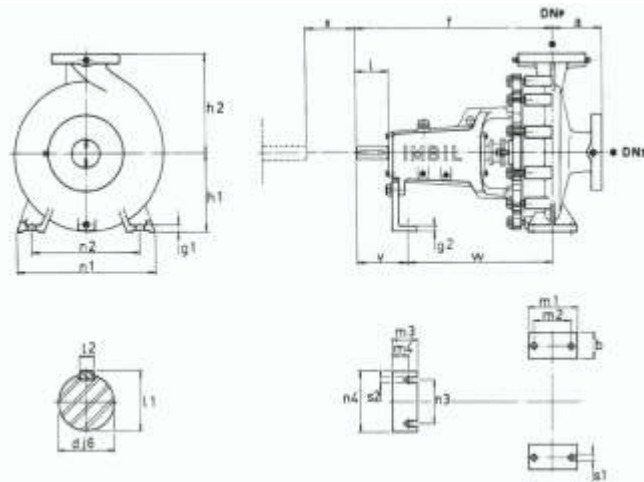


| Part | Qty. | Denomination    |
|------|------|-----------------|
| AD   | 01   | Wear Ring       |
| BP   | 01   | Shaft Sleeve    |
| CA   | 01   | Volute Case     |
| MO   | 01   | Engine          |
| PJ*  | 01   | Coupling Piece  |
| RO   | 01   | Impeller        |
| TP   | 01   | Pressure Couver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

\* Used only some models, when required



## BASIC DIMENSIONS (mm) – INI



| Bearing Hosing | Models   | Pump dimensions |                 |     |     |                |                | Feet dimensions |                |                |                |                |                |                |                |                |                |                |                |                |     |     |                            | Shaft End |                |                |     |  |
|----------------|----------|-----------------|-----------------|-----|-----|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|-----|----------------------------|-----------|----------------|----------------|-----|--|
|                |          | DN <sub>s</sub> | DN <sub>p</sub> | a   | f   | h <sub>1</sub> | h <sub>2</sub> | b               | g <sub>1</sub> | g <sub>2</sub> | m <sub>1</sub> | m <sub>2</sub> | m <sub>3</sub> | m <sub>4</sub> | n <sub>1</sub> | n <sub>2</sub> | n <sub>3</sub> | n <sub>4</sub> | s <sub>1</sub> | s <sub>2</sub> | v   | w   | d <sub>j<sub>s</sub></sub> | l         | l <sub>1</sub> | l <sub>2</sub> | 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              |     |     | 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              | 80  | 385 | 112            | 140            | 50              | 15             | 6,5            | 100            | 70             | 66,5           | 41,5           | 210            | 160            | 110            | 152,4          | 14             | 14             | 100 | 285 | 24                         | 50        | 26,9           | 8              | 100 |  |
|                | 40-160   | 65              | 40              |     |     | 132            | 160            |                 |                |                |                |                |                |                | 240            | 190            |                |                |                |                |     |     |                            |           |                |                |     |  |
|                | 40-200   | 65              | 40              |     |     | 160            | 180            |                 |                |                |                |                |                |                | 265            | 212            |                |                |                |                |     |     |                            |           |                |                |     |  |
|                | 50-125   | 80              | 50              |     |     | 132            | 160            |                 |                |                |                |                |                |                | 240            | 190            |                |                |                |                |     |     |                            |           |                |                |     |  |
|                | 50-160   | 80              | 50              |     |     | 160            | 180            |                 |                |                |                |                |                |                | 265            | 212            |                |                |                |                |     |     |                            |           |                |                |     |  |
|                | 50-200   | 80              | 50              | 100 |     | 160            | 200            |                 |                |                |                |                |                |                | 265            | 212            |                |                |                |                |     |     |                            |           |                |                |     |  |
|                | 65-125   | 100             | 50              |     |     | 160            | 180            | 65              | 18             |                | 125            | 95             |                |                | 280            | 212            |                |                |                |                |     |     |                            |           |                |                |     |  |
| I 40           | 32-250.1 | 50              | 32              | 100 |     | 180            | 225            |                 |                |                |                |                |                |                | 320            | 250            |                |                |                |                |     |     |                            |           |                |                |     |  |
|                | 32-250   | 50              | 32              | 100 |     | 180            | 225            |                 |                |                |                |                |                |                | 320            | 250            |                |                |                |                |     |     |                            |           |                |                |     |  |
|                | 40-250   | 65              | 40              | 100 |     | 180            | 225            |                 |                |                |                |                |                |                | 320            | 250            |                |                |                |                |     |     |                            |           |                |                |     |  |
|                | 50-250   | 80              | 50              | 125 | 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 |  |
|                | 65-160   | 100             | 65              | 125 |     | 160            | 200            |                 |                |                |                |                |                |                | 280            | 212            |                |                |                |                |     |     |                            |           |                |                |     |  |
|                | 65-200   | 100             | 65              | 100 |     | 180            | 225            |                 |                |                |                |                |                |                | 320            | 250            |                |                |                |                |     |     |                            |           |                |                |     |  |
|                | 80-160   | 125             | 80              | 100 |     | 180            | 225            |                 |                |                |                |                |                |                | 320            | 250            |                |                |                |                |     |     |                            |           |                |                | 140 |  |
| I 40 R         | 65-250   | 100             | 65              |     |     | 200            | 250            |                 |                |                |                |                |                |                | 360            | 280            |                |                |                |                |     |     |                            |           |                |                | 140 |  |
|                | 80-250   | 125             | 80              |     |     | 225            | 280            | 80              |                |                |                |                | 64,5           | 39,5           | 400            | 315            |                |                | 18             |                |     |     |                            |           |                |                | 140 |  |
|                | 100-160  | 125             | 100             |     |     | 200            | 280            |                 |                |                |                |                |                |                | 360            | 280            |                |                |                |                |     |     |                            |           |                |                | 140 |  |
|                | 100-200  | 125             | 100             | 125 | 500 | 200            | 280            |                 |                | 9,5            |                |                |                |                | 360            | 280            | 110            | 152,4          |                | 14             | 130 | 370 | 32                         | 80        | 35,3           | 10             | 140 |  |
|                | 40-315   | 65              | 40              |     |     | 200            | 250            |                 |                |                |                |                |                |                | 345            | 280            |                |                |                |                |     |     |                            |           |                |                | 140 |  |
|                | 50-315   | 80              | 50              |     |     | 225            | 280            |                 | 18             |                | 125            | 95             |                |                | 345            | 280            |                |                | 14             |                |     |     |                            |           |                |                | 140 |  |
|                | 80-200   | 125             | 80              |     |     | 180            | 250            |                 |                |                |                |                |                |                | 345            | 280            |                |                |                |                |     |     |                            |           |                |                | 140 |  |
| I 50           | 65-315   | 100             | 65              | 125 |     | 225            | 280            |                 | 19             |                |                |                |                |                | 400            | 315            |                |                |                |                |     |     |                            |           |                |                |     |  |
|                | 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            | 80              | 18             |                |                |                |                |                | 400            | 315            |                |                |                |                |     |     |                            |           |                |                |     |  |
|                | 125-200  | 150             | 125             | 140 | 530 | 250            | 315            |                 | 9,5            |                |                |                | 61,5           | 36,5           | 400            | 315            | 110            | 152,4          | 18             | 14             | 160 | 370 | 42                         | 110       | 45,1           | 12             | 140 |  |
|                | 125-250  | 150             | 125             | 140 |     | 250            | 355            |                 | 18             |                |                |                |                |                | 400            | 315            |                |                |                |                |     |     |                            |           |                |                |     |  |
|                | 100-400  | 125             | 100             | 140 |     | 280            | 355            |                 | 20             |                |                |                |                |                | 500            | 400            |                |                |                |                |     |     |                            |           |                |                |     |  |
|                | 125-315  | 150             | 125             | 140 |     | 280            | 355            |                 | 20             |                |                |                |                |                | 500            | 400            |                |                |                |                |     |     |                            |           |                |                |     |  |
|                | 125-400  | 150             | 125             | 140 |     | 315            | 400            | 100             | 20             |                | 200            | 150            |                |                | 500            | 400            |                |                | 22             |                |     |     |                            |           |                |                |     |  |
|                | 150-200  | 200             | 150             | 160 |     | 280            | 375            |                 | 20             |                |                |                |                |                | 500            | 400            |                |                |                |                |     |     |                            |           |                |                | 180 |  |
|                | 150-250  | 200             | 150             | 160 |     | 280            | 375            |                 | 20             |                |                |                |                |                | 500            | 400            |                |                |                |                |     |     |                            |           |                |                |     |  |
| I 60           | 150-315  | 200             | 150             |     | 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            | 400            |                 |                |                |                |                |                |                |                |                |                |                |                |                |     |     |                            |           |                |                |     |  |

| 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  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|        |           | 386     |     |            |     |     |     | 125 |     |     |     | 160 | 156 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|        |           | 411     |     |            |     | 99  |     | 135 |     |     | 140 | 100 | 173 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|        |           | 432     |     |            |     | 112 | 140 | 142 |     |     | 112 | 190 | 48  |     | 220 |     |     |     | 177 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 32-160 |           | 2/ 3 CV | 80  | 132        | 70  | 363 |     | 150 | 140 | 140 | 100 | 90  | 140 | 190 | 240 | 50  | 42  | 38  | 164 | 131 | 14  | 10  | 100 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|        |           | 388     |     |            |     | 89  |     | 125 |     |     | 160 | 156 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|        |           | 413     |     |            |     | 99  |     | 137 |     | 100 | 160 | 173 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|        |           | 434     |     |            |     | 112 | 140 | 144 |     | 140 | 112 | 220 |     |     |     |     | 177 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 32-200 | 1,5/ 2 CV | 3 CV    | 50  | 32         | 80  | 160 | 360 | 89  | 150 | 112 | 137 | 100 | 90  | 140 | 190 | 240 | 50  | 42  | 38  | 164 | 131 | 14  | 10  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|        |           |         |     |            |     |     | 385 |     |     |     | 125 |     | 160 |     |     |     |     | 156 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|        |           |         |     |            |     |     | 431 | 112 | 140 |     | 141 | 112 | 190 |     |     |     |     | 48  | 220 | 177 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|        |           |         |     |            |     |     | 471 | 135 | 178 |     | 160 | 178 | 132 |     |     |     |     | 216 | 55  | 51  | 248 |     |     |     | 187 |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 32-250 | 3 CV      | 4 CV    | 50  | 32         | 100 | 180 | 361 | 89  | 150 | 112 | 95  | 125 | 90  | 140 | 160 | 250 | 320 | 65  | 42  | 38  | 164 | 156 | 14  | 10  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|        |           |         |     |            |     |     | 386 |     |     |     |     |     | 140 |     |     |     |     |     | 100 | 160 | 173 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|        |           |         |     |            |     |     | 411 | 99  |     |     |     |     | 210 |     |     |     |     |     | 160 | 254 | 308 | 256 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|        |           |         |     |            |     |     | 432 | 112 | 140 |     |     |     | 241 |     |     |     |     |     | 180 | 279 | 75  | 80  |     |     |     | 350 | 294 |     |     |     |     |     |     |     |     |     |     |     |
| 40-125 | 1,5/ 2 CV | 10 CV   | 65  | 40         | 80  | 112 | 70  | 136 | 140 | 100 | 90  | 140 | 160 | 210 | 50  | 42  | 38  | 164 | 156 | 173 | 177 | 187 | 225 | 256 | 332 | 370 |     |     |     |     |     |     |     |     |     |     |     |     |
|        |           |         |     |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 412 | 99  |     | 112 |     | 190 | 173 |     |     |     |     |     |
|        |           |         |     |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 433 | 112 | 140 | 162 |     | 132 | 216 | 55  | 51  | 248 | 187 |     |
|        |           |         |     |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 473 | 135 |     | 206 | 210 | 160 | 254 | 65  | 64  | 308 | 256 |     |
| 40-160 | 1,5/ 2 CV | 10 CV   | 65  | 40         | 80  | 132 | 70  | 164 | 140 | 132 | 160 | 216 | 190 | 240 | 50  | 42  | 38  | 164 | 156 | 173 | 177 | 187 | 225 | 256 | 332 | 370 |     |     |     |     |     |     |     |     |     |     |     |     |
|        |           |         |     |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 364 | 89  | 150 | 140 | 100 | 90  | 140 | 42  | 38  | 164 | 131 |     |
|        |           |         |     |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 476 | 135 | 140 | 178 | 132 | 216 | 55  | 51  | 248 | 187 |     |     |
|        |           |         |     |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 514 | 135 | 178 | 206 | 210 | 160 | 254 | 65  | 64  | 308 | 256 |     |
| 40-200 | 3 CV      | 4 CV    | 65  | 40         | 100 | 160 | 137 | 125 | 90  | 134 | 140 | 100 | 180 | 212 | 265 | 50  | 42  | 38  | 164 | 156 | 173 | 177 | 187 | 225 | 256 | 332 | 370 |     |     |     |     |     |     |     |     |     |     |     |
|        |           |         |     |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 514 | 99  | 140 | 205 | 210 | 160 | 254 | 65  | 64  | 308 | 256 |
|        |           |         |     |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 614 | 155 | 210 | 218 | 241 | 180 | 279 | 75  | 80  | 350 | 294 |
|        |           |         |     |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 677 | 177 | 241 | 212 | 190 | 254 | 65  | 64  | 308 | 256 |     |
| 40-250 | 4/ 5 CV   | 6 CV    | 65  | 40         | 100 | 180 | 95  | 120 | 140 | 100 | 160 | 225 | 250 | 320 | 65  | 50  | 44  | 188 | 173 | 177 | 187 | 225 | 256 | 332 | 370 |     |     |     |     |     |     |     |     |     |     |     |     |     |
|        |           |         |     |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 408 | 99  | 140 | 207 | 241 | 180 | 279 | 75  | 80  | 350 | 294 |     |     |
|        |           |         |     |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 429 | 112 | 140 | 219 | 267 | 200 | 318 | 85  | 82  | 385 | 332 |     |     |
|        |           |         |     |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 449 | 135 | 178 | 238 | 271 | 210 | 279 | 85  | 82  | 385 | 332 |     |     |

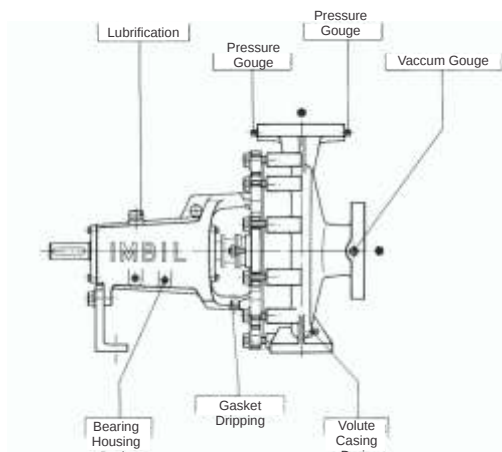
## BASIC DIMENSIONS (mm) – INI-BLOC

[illegible]

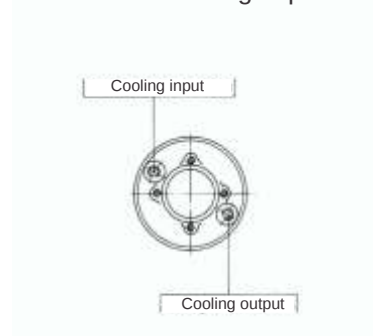
Notes:

- 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.

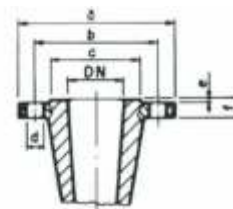
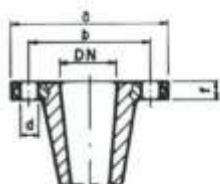
## CONNECTION SIZES AND FLANGE TABLE



Detail of the cooling cap



| Connection / Denomination | BSP screw threads |      |        |      |      |
|---------------------------|-------------------|------|--------|------|------|
|                           | I 30              | I 40 | I 40 R | I 50 | I 60 |
| 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 refrigeration      | 1/2"              | 1/2" | 1/2"   | 1/2" | 1/2" |



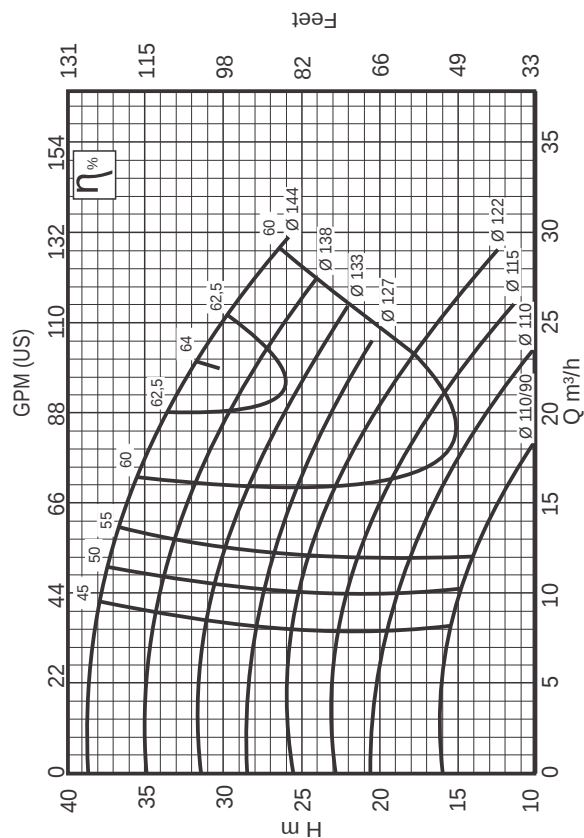
|     | ANSI B 16.1FF Standard | a   | b   | d  | f  | Number of holes |
|-----|------------------------|-----|-----|----|----|-----------------|
| 25  | 125 Lb                 | 108 | 79  | 16 | 11 | 4               |
|     | 250 Lb                 | 124 | 89  | 19 | 18 | 4               |
| 32  | 125 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              |



## INI 32-125.1

## 3500 rpm

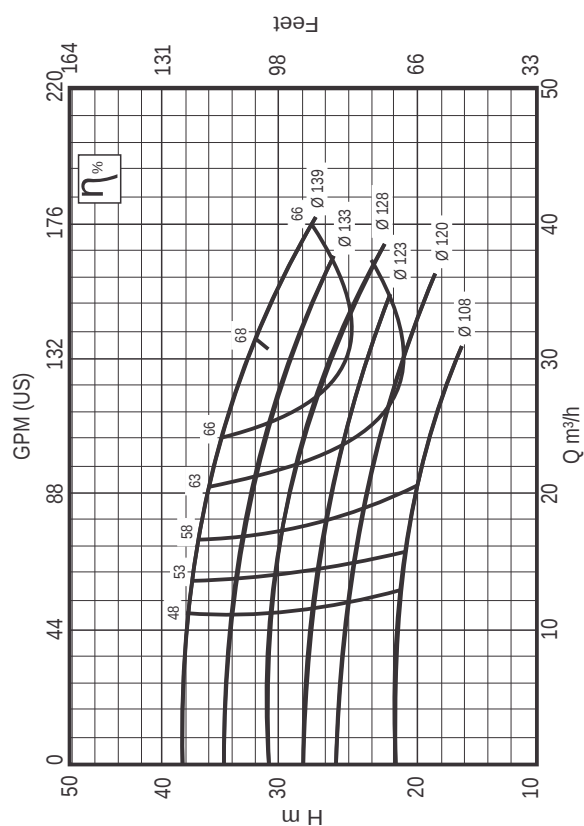


Suction Flange 50 mm  
Pressure Flange 32 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 144 mm  
Impeller Ø Min. 110/90 mm  
Impeller of Width 9 mm  
Viscosity  $\mu = 1 \text{ cP}$

## INI 32-125

## 3500 rpm



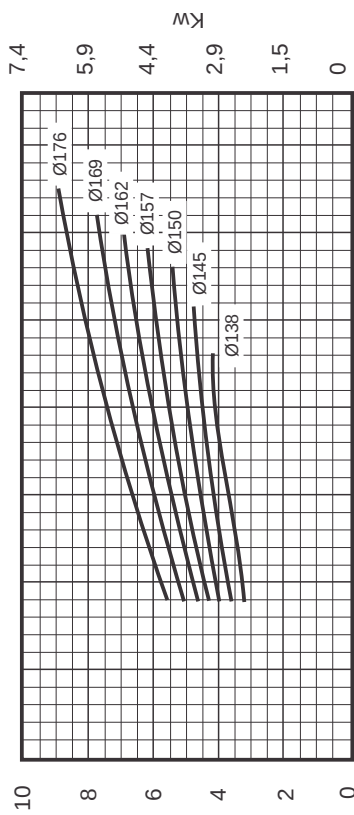
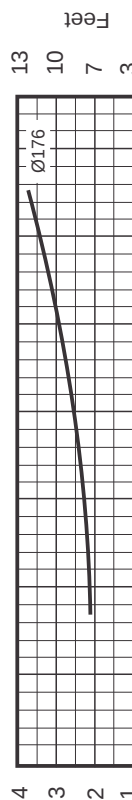
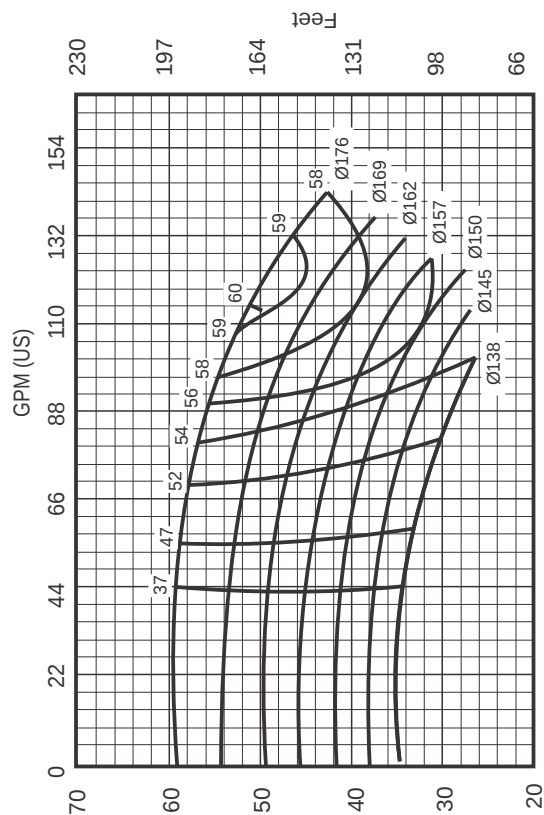
Suction Flange 50 mm  
Pressure Flange 32 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 139 mm  
Impeller Ø Min. 108 mm  
Impeller of Width 9 mm  
Viscosity  $\mu = 1 \text{ cP}$



**3500 rpm**

**INI 32-160.1**

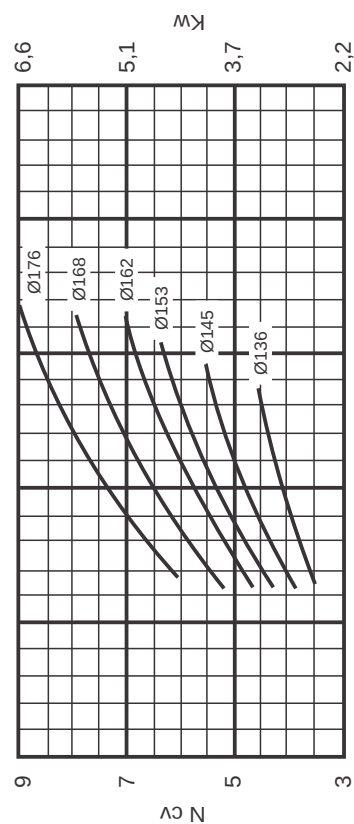
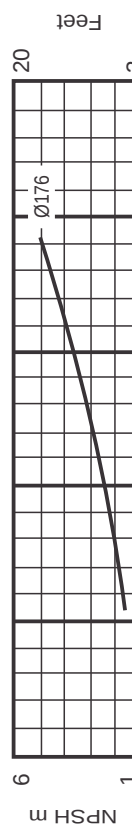
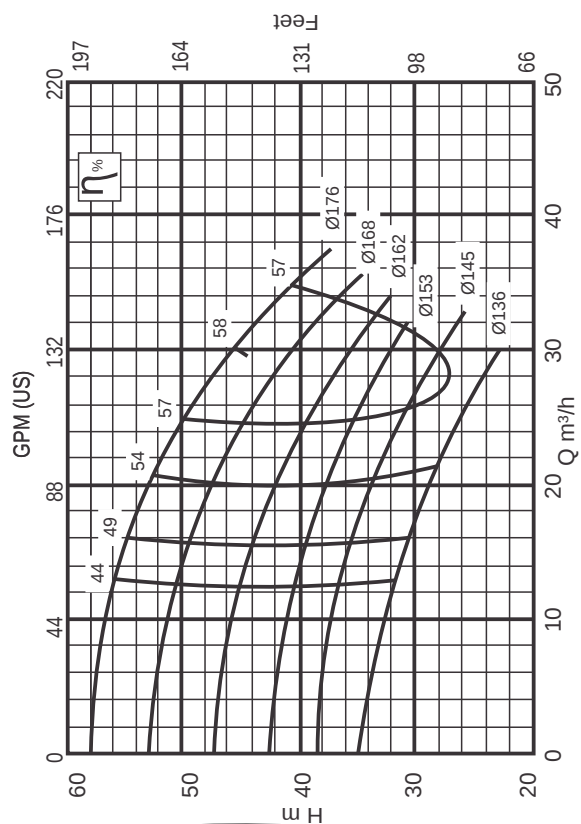


Suction Flange 50 mm  
Pressure Flange 32 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 176 mm  
Impeller Ø Min. 138 mm  
Viscosity  $\mu = 1 \text{ cP}$

**3500 rpm**

**INI 32-160**

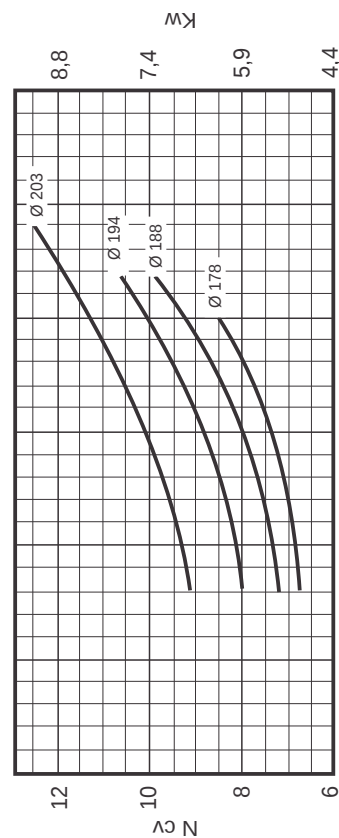
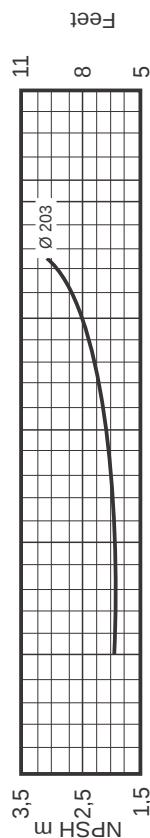
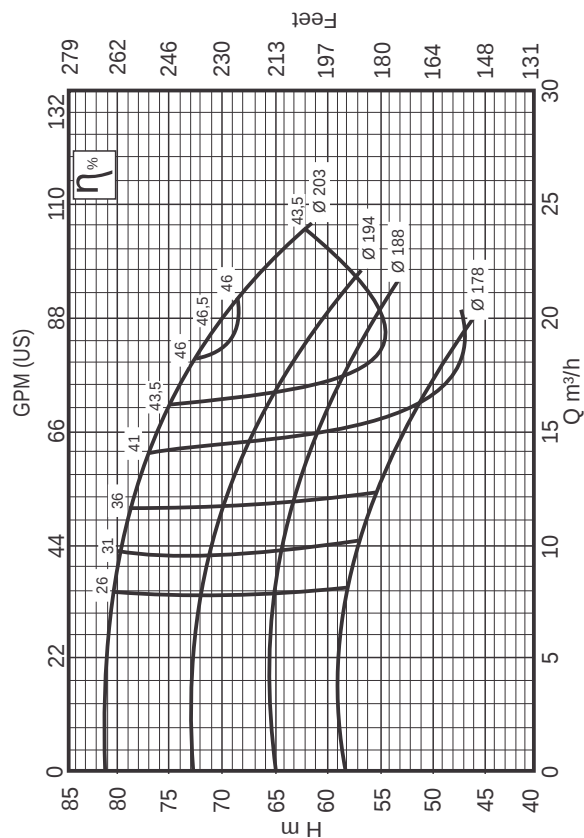


Suction Flange 50 mm  
Pressure Flange 32 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 176 mm  
Impeller Ø Min. 136 mm  
Impeller of Width 5 mm  
Viscosity  $\mu = 1 \text{ cP}$



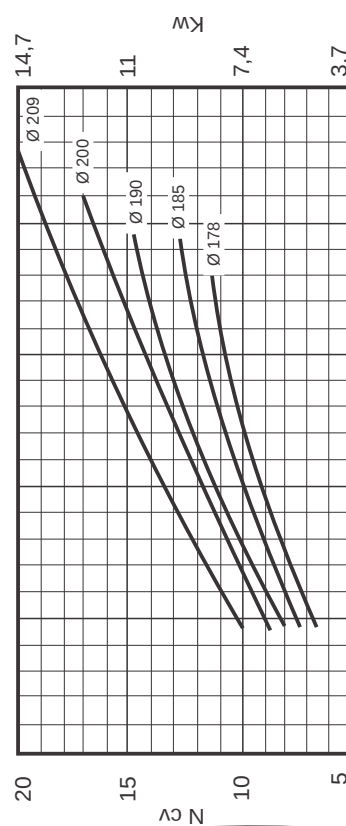
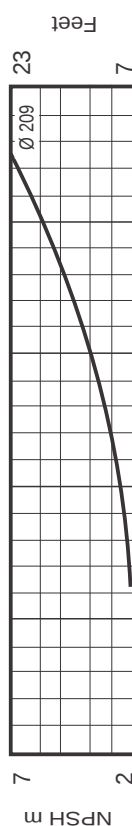
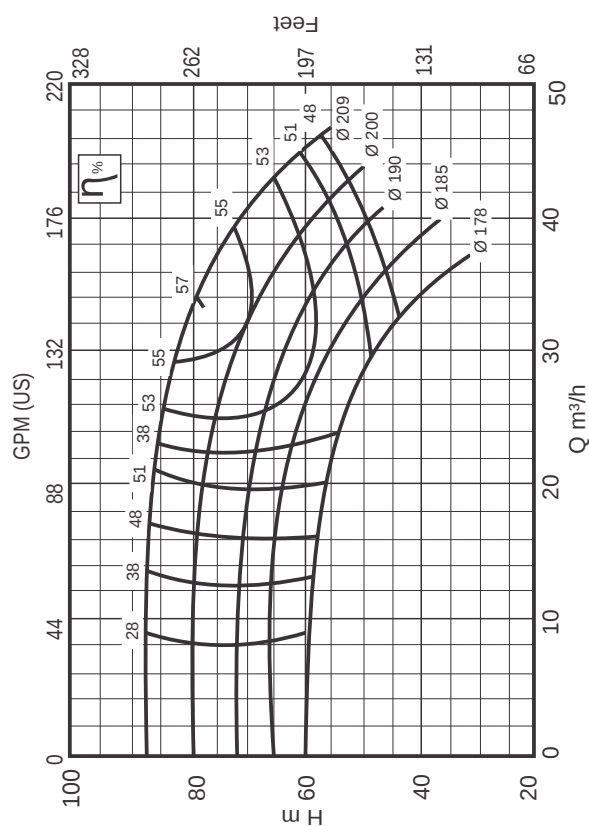
## INI 32-200.1



Suction Flange 50 mm  
Pressure Flange 32 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 203 mm  
Impeller Ø Min. 178 mm  
Viscosity  $\mu = 1 \text{ cP}$

## INI 32-200



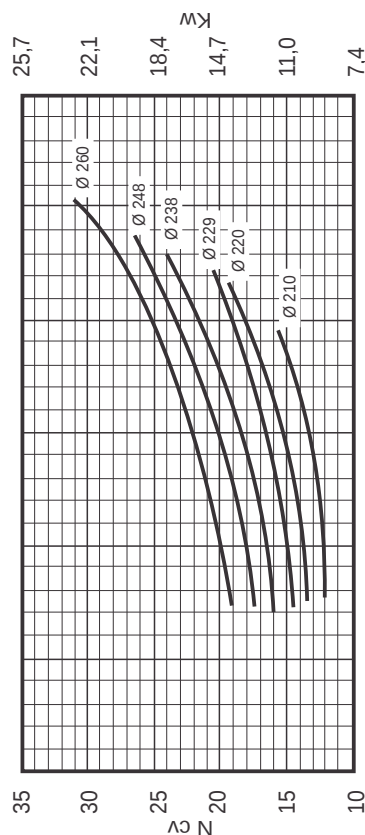
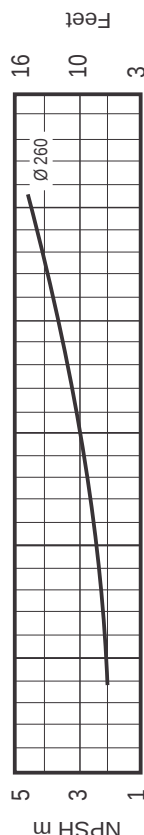
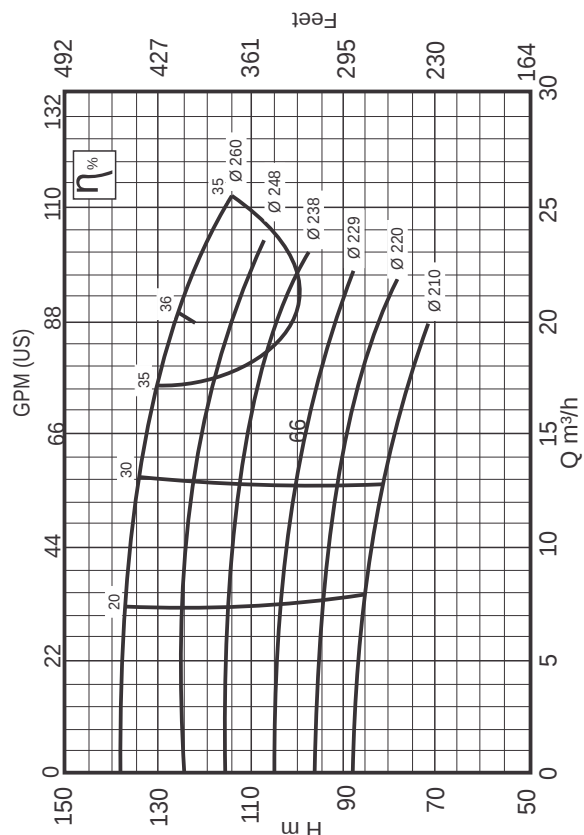
Suction Flange 50 mm  
Pressure Flange 32 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 209 mm  
Impeller Ø Min. 178 mm  
Impeller of Width 6 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 3500 rpm

### INI 32-250.1

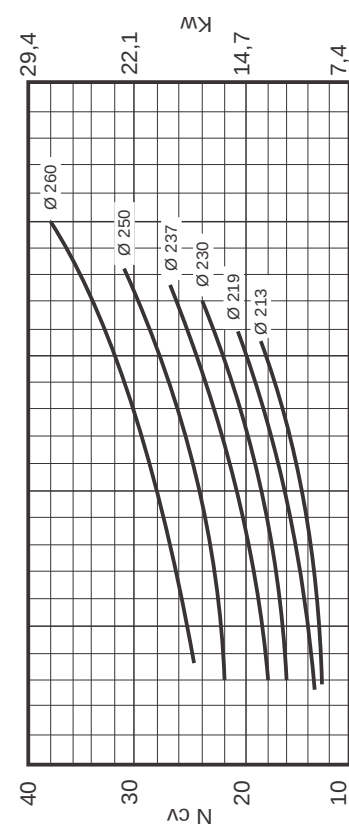
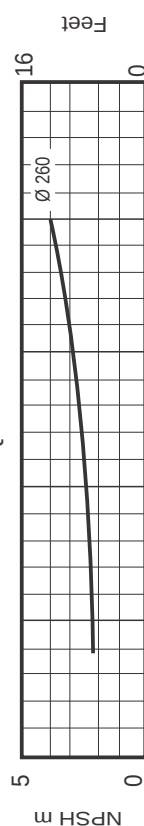
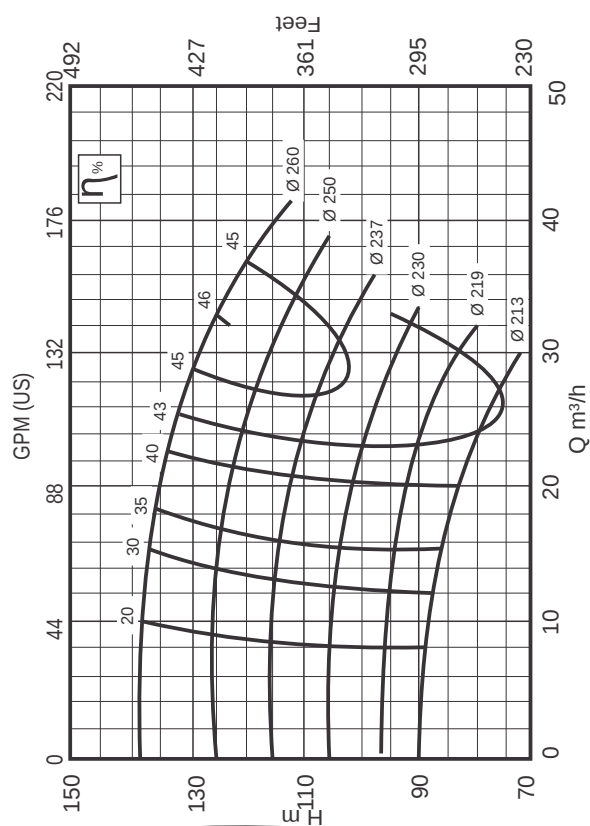


Suction Flange 50 mm  
Pressure Flange 32 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 260 mm  
Impeller Ø Min. 210 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 3500 rpm

### INI 32-250



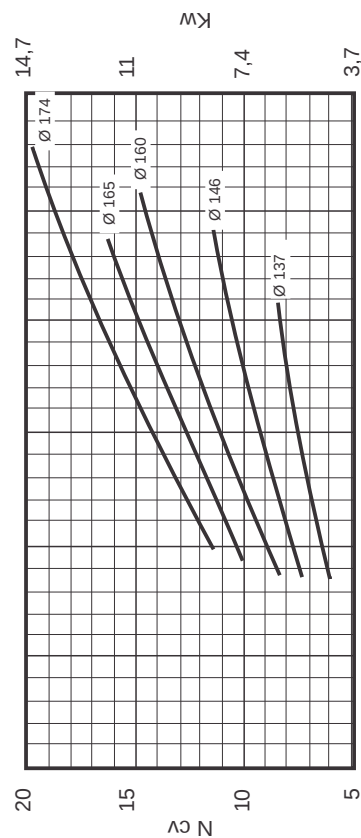
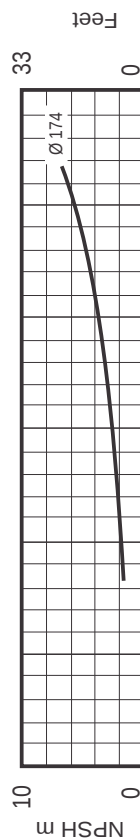
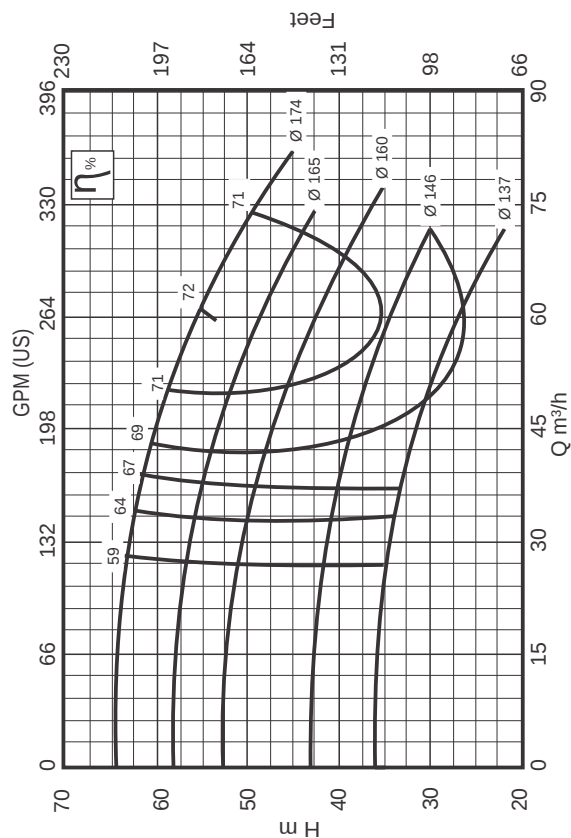
Suction Flange 50 mm  
Pressure Flange 32 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 260 mm  
Impeller Ø Min. 213 mm  
Impeller of Width 8 mm  
Viscosity  $\mu = 1 \text{ cP}$



## INI 40-160

## 3500 rpm

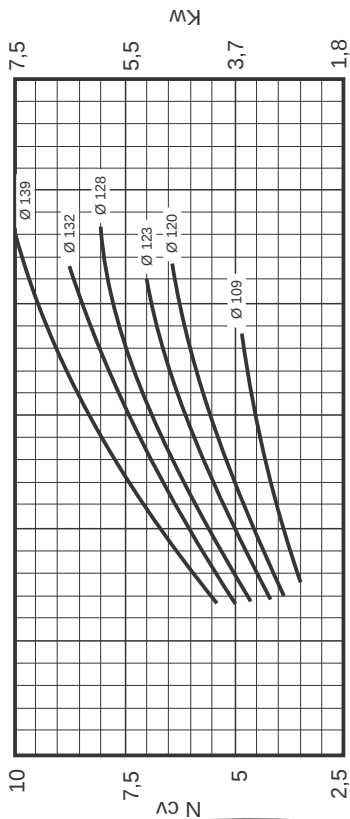
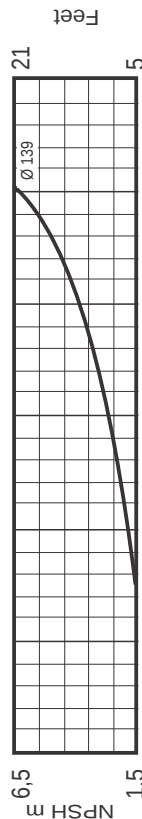
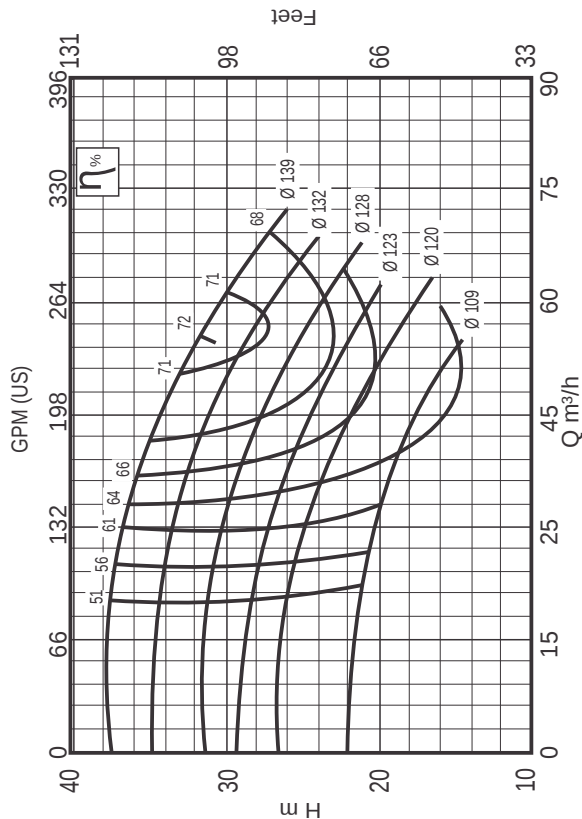


Impeller Ø Max. 174 mm  
Impeller Ø Min. 137 mm  
Impeller of Width 12 mm  
Viscosity  $\mu = 1\text{cP}$

Suction Flange 65 mm  
Pressure Flange 40 mm  
Specific Weight  $\gamma = 1\text{kgf/dm}^3$

## INI 40-125

## 3500 rpm



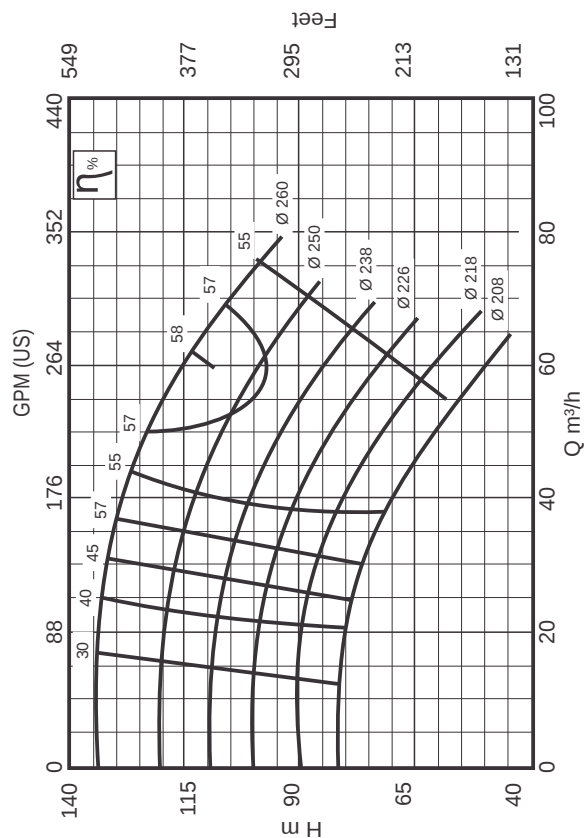
Impeller Ø Max. 139 mm  
Impeller Ø Min. 109 mm  
Impeller of Width 14 mm  
Viscosity  $\mu = 1\text{cP}$

Suction Flange 65 mm  
Pressure Flange 40 mm  
Specific Weight  $\gamma = 1\text{kgf/dm}^3$



## 3500 rpm

## INI 40-250

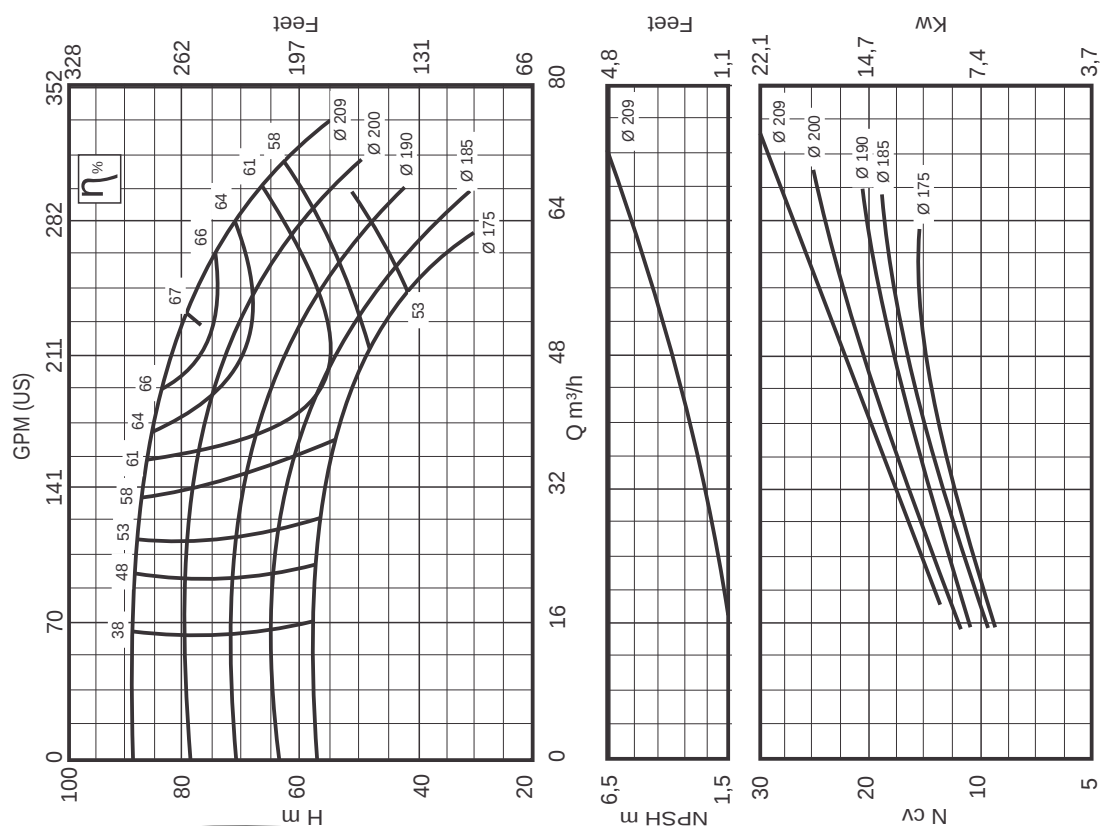


Suction Flange 65 mm  
Pressure Flange 40 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 260 mm  
Impeller Ø Min. 208 mm  
Impeller of Width 8 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 3500 rpm

## INI 40-200



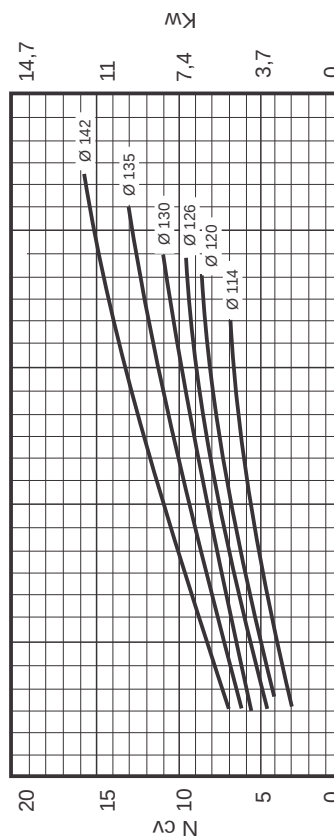
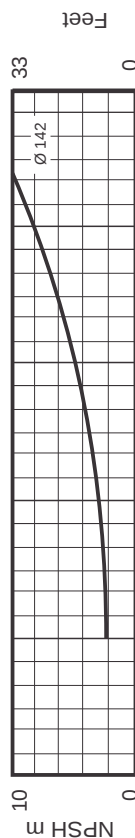
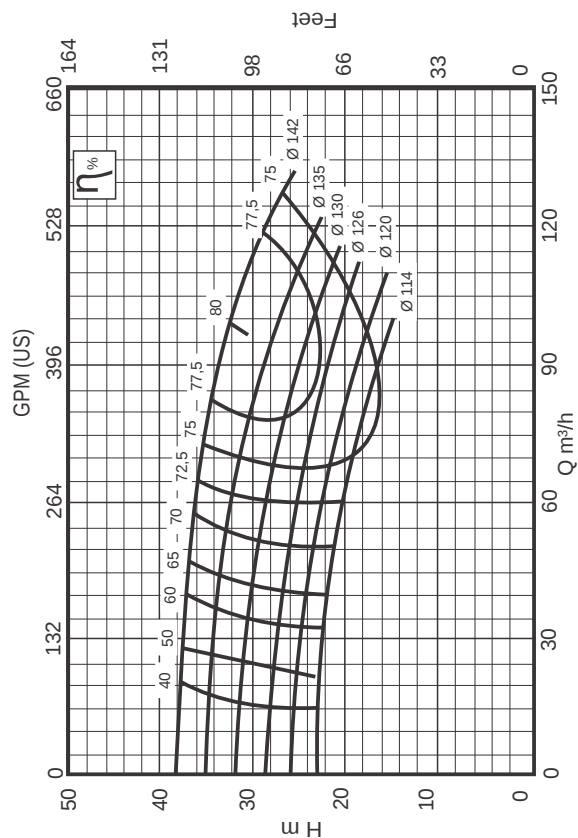
Suction Flange 65 mm  
Pressure Flange 40 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 209 mm  
Impeller Ø Min. 175 mm  
Impeller of Width 9 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 3500 rpm

## INI 50-125

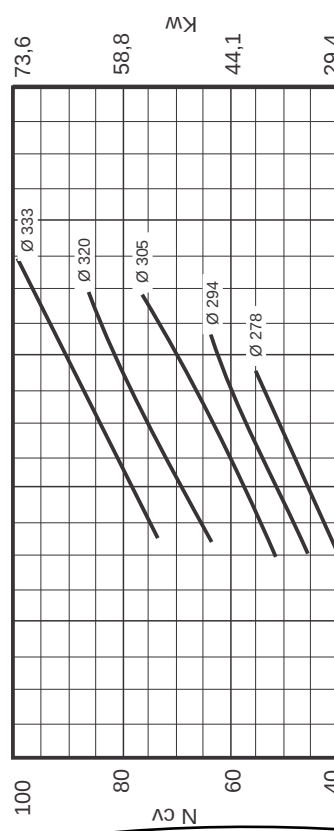
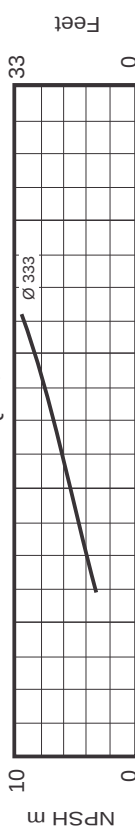
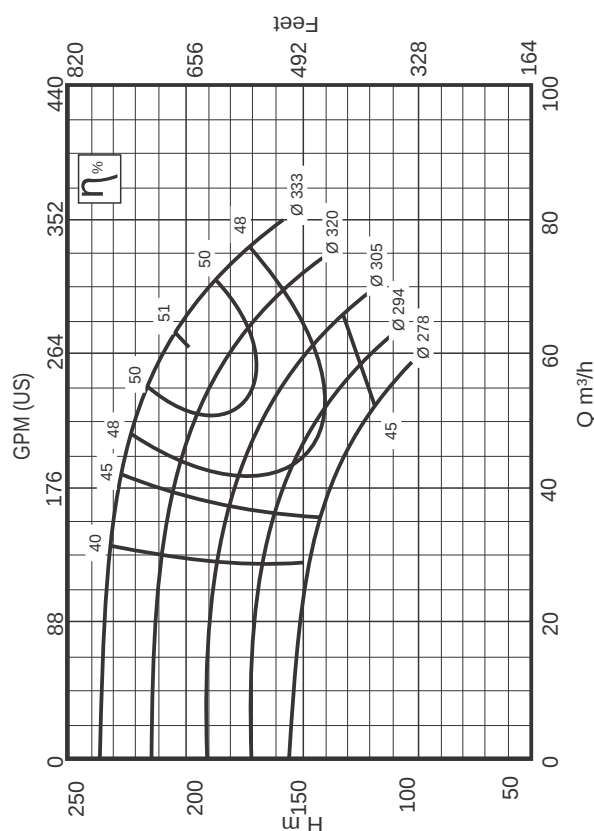


Suction Flange 80 mm  
Pressure Flange 50 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 142 mm  
Impeller Ø Min. 114 mm  
Impeller of Width 20 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 3500 rpm

## INI 40-315



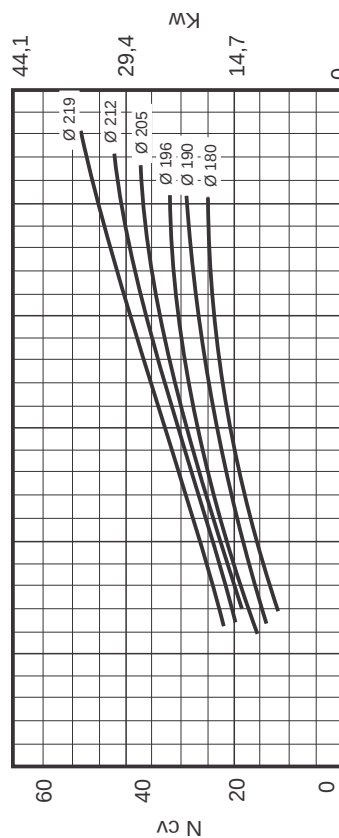
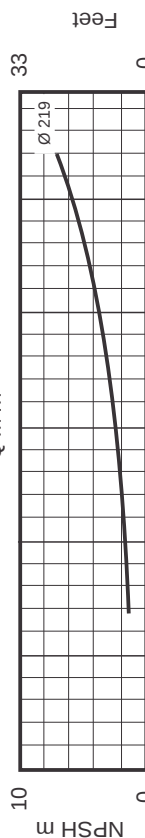
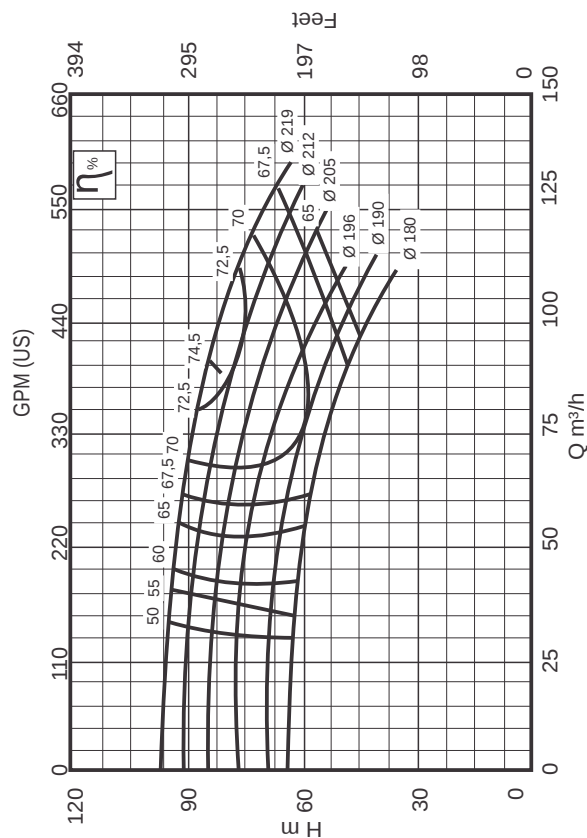
Suction Flange 65 mm  
Pressure Flange 40 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 333 mm  
Impeller Ø Min. 278 mm  
Impeller of Width 9 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 3500 rpm

## INI 50-200

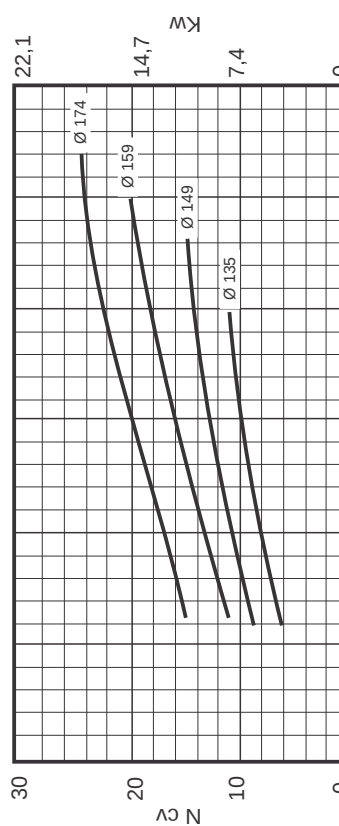
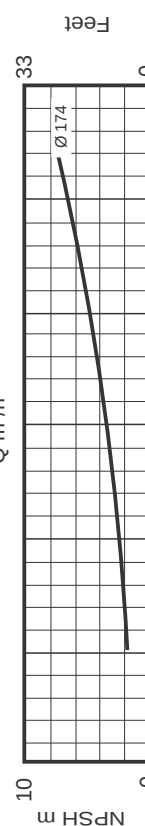
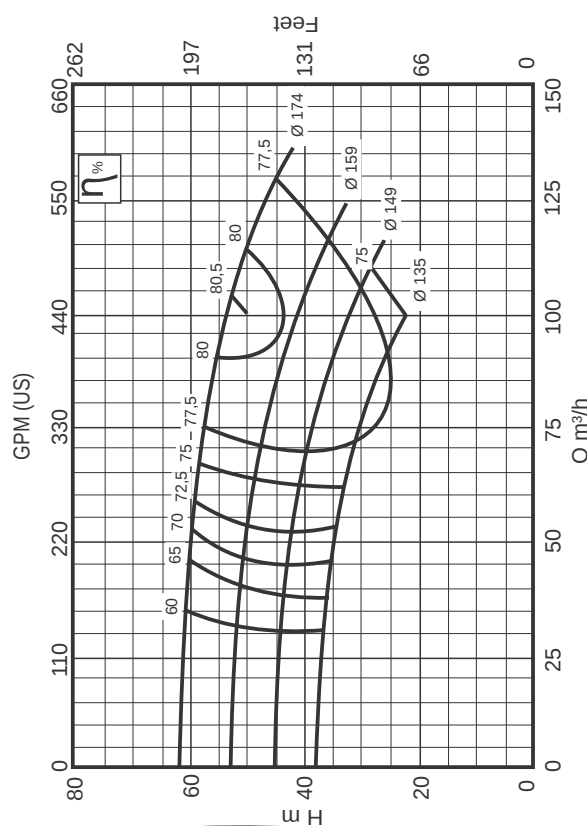


Impeller Ø Max. 219 mm  
Impeller Ø Min. 180 mm  
Impeller of Width 11 mm  
Viscosity  $\mu = 1\text{cP}$

Suction Flange 80 mm  
Pressure Flange 50 mm  
Specific Weight  $\gamma = 1\text{kgf/dm}^3$

## 3500 rpm

## INI 50-160



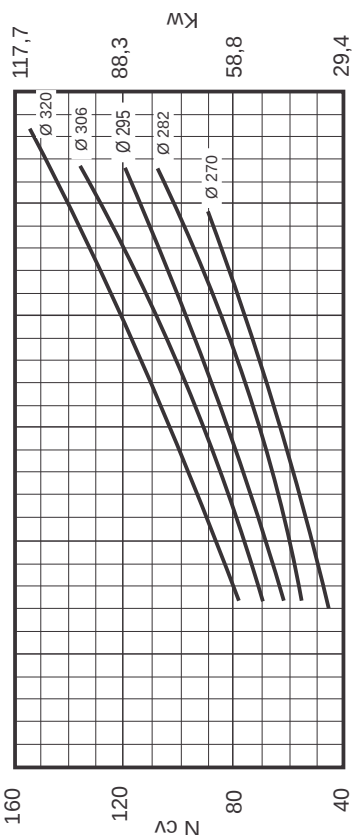
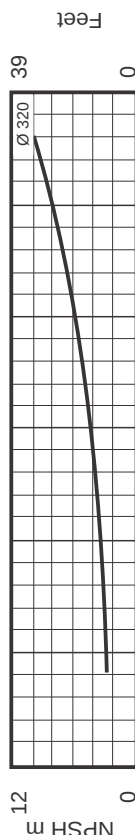
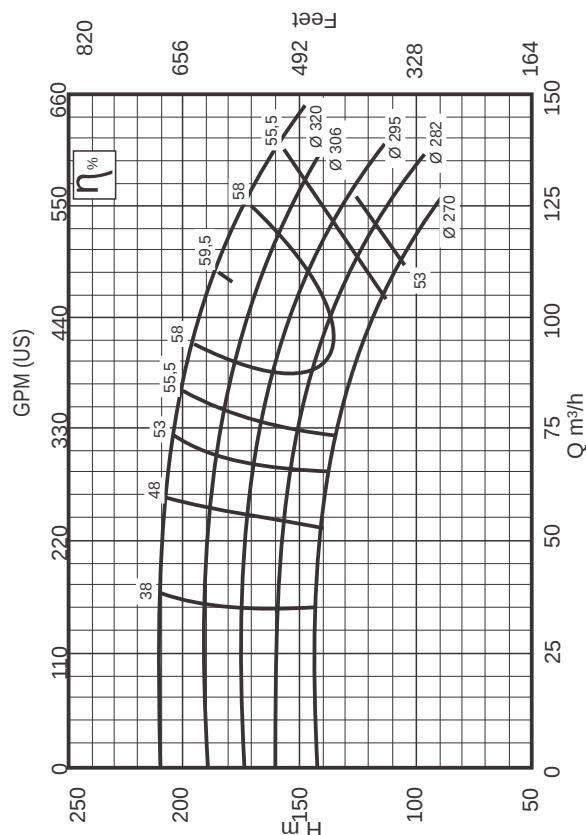
Impeller Ø Max. 174 mm  
Impeller Ø Min. 135 mm  
Impeller of Width 16 mm  
Viscosity  $\mu = 1\text{cP}$

Suction Flange 80 mm  
Pressure Flange 50 mm  
Specific Weight  $\gamma = 1\text{kgf/dm}^3$



## 3500 rpm

## INI 50-315

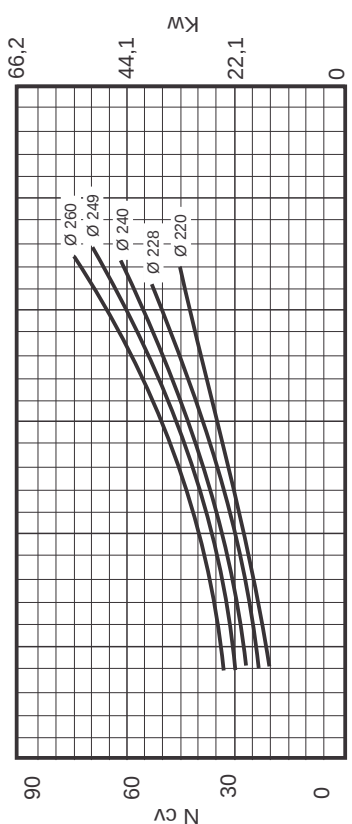
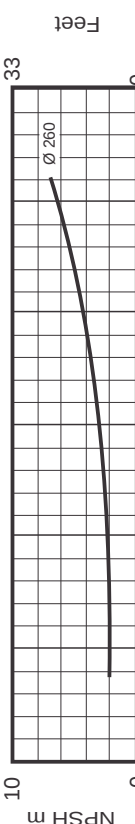
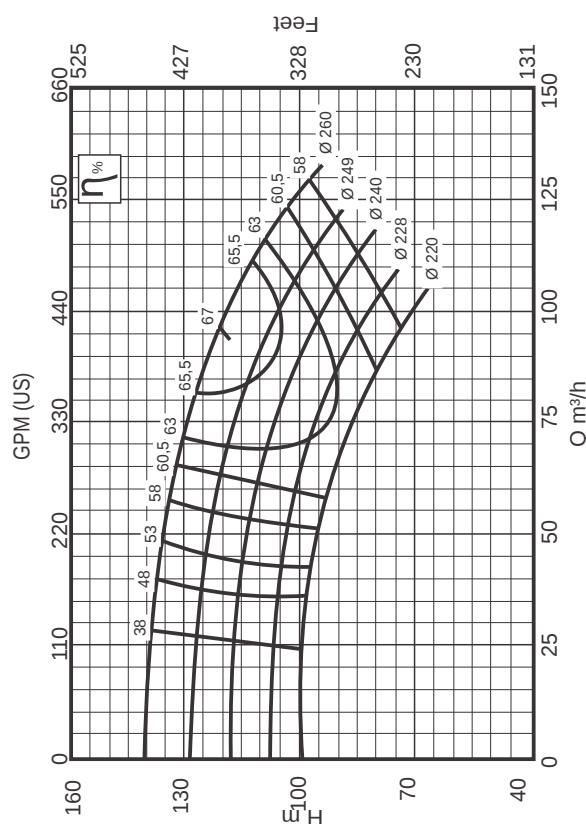


Suction Flange 80 mm  
Pressure Flange 50 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 320 mm  
Impeller Ø Min. 270 mm  
Impeller of Width 9 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 3500 rpm

## INI 50-250



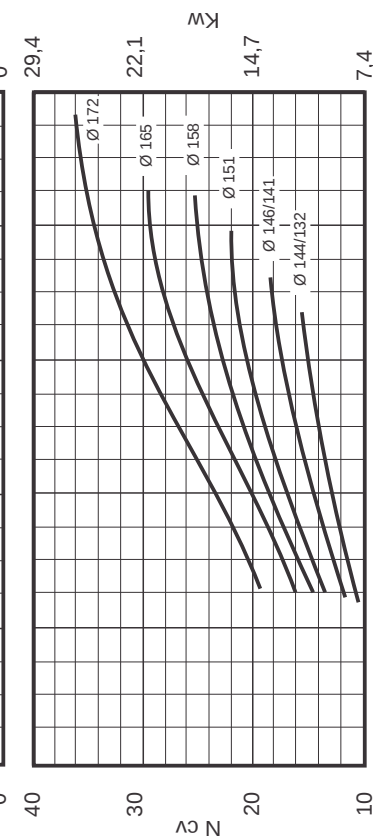
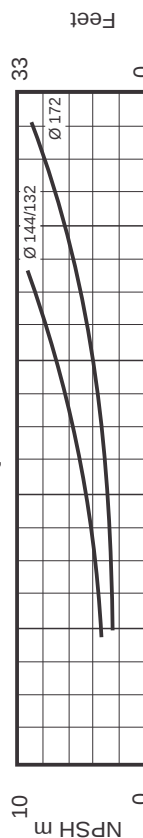
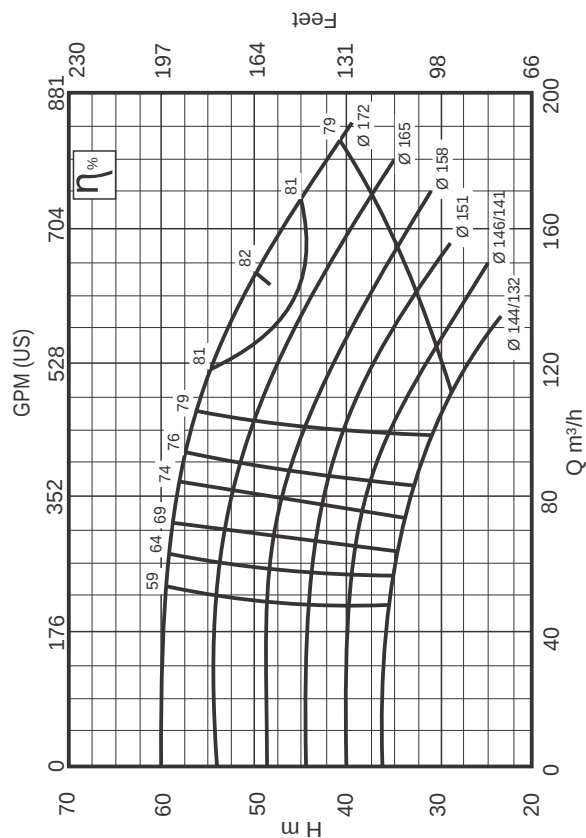
Suction Flange 80 mm  
Pressure Flange 50 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 260 mm  
Impeller Ø Min. 220 mm  
Impeller of Width 12 mm  
Viscosity  $\mu = 1 \text{ cP}$



## INI 65-160

## 3500 rpm

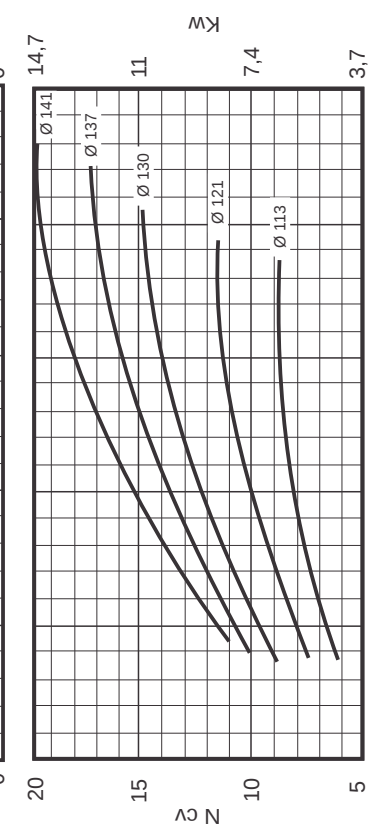
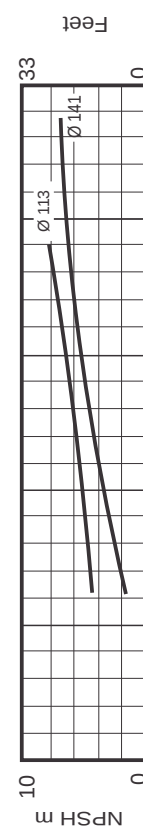
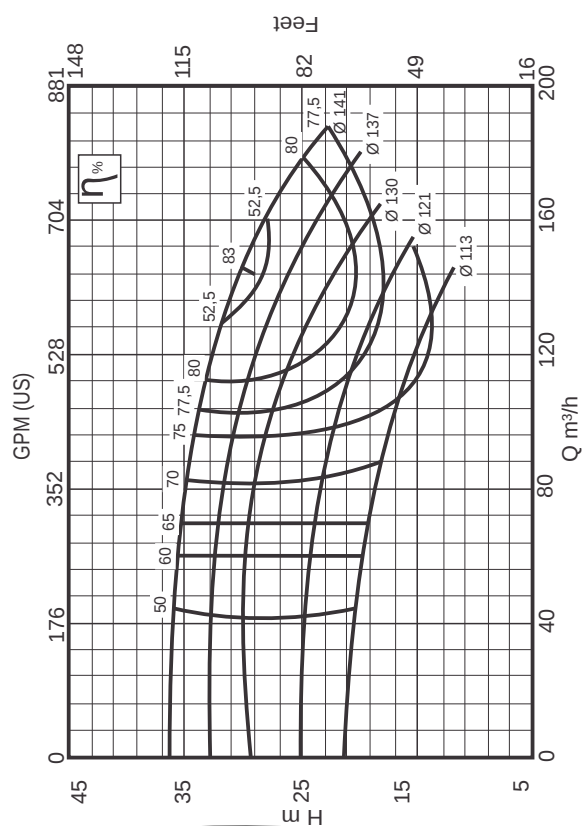


Suction Flange 100 mm  
Pressure Flange 65 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 172 mm  
Impeller Ø Min. 144/132 mm  
Impeller of Width 21 mm  
Viscosity  $\mu = 1 \text{ cP}$

## INI 65-125

## 3500 rpm



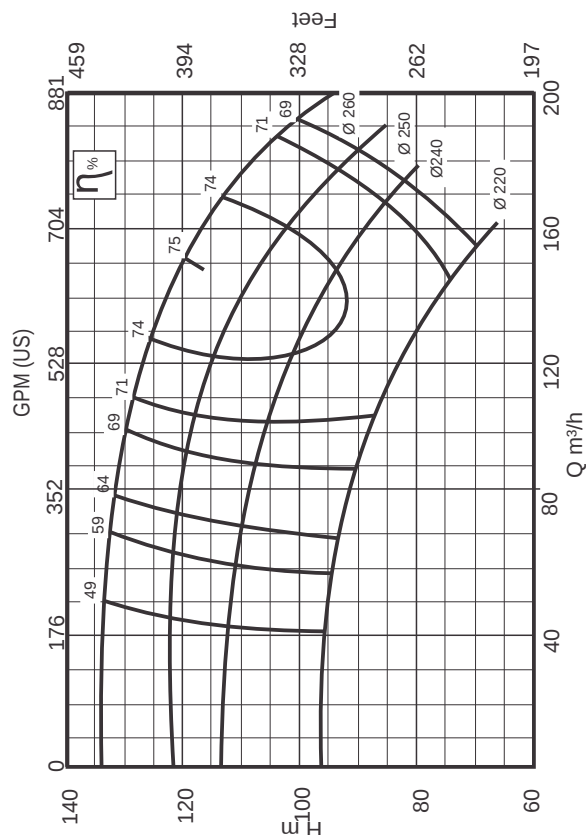
Suction Flange 100 mm  
Pressure Flange 65 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 141 mm  
Impeller Ø Min. 113 mm  
Impeller of Width 25 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 3500 rpm

## INI 65-250

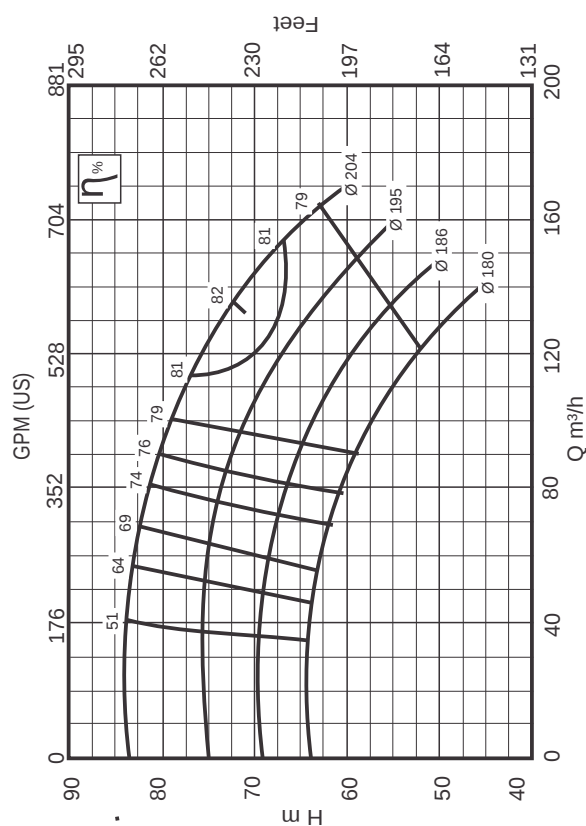


Suction Flange 100 mm  
Pressure Flange 65 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 260 mm  
Impeller Ø Min. 220 mm  
Impeller of Width 13 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 3500 rpm

## INI 65-200



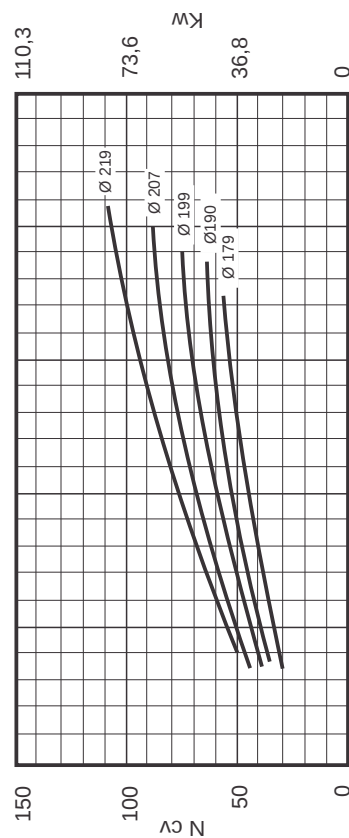
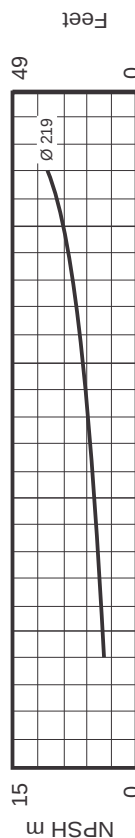
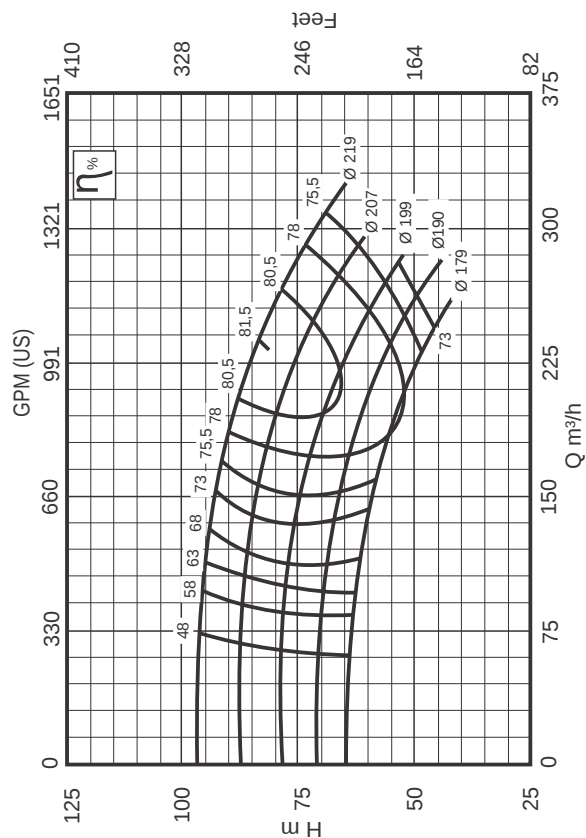
Suction Flange 100 mm  
Pressure Flange 65 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 204 mm  
Impeller Ø Min. 180 mm  
Impeller of Width 17 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 3500 rpm

## INI 80-200

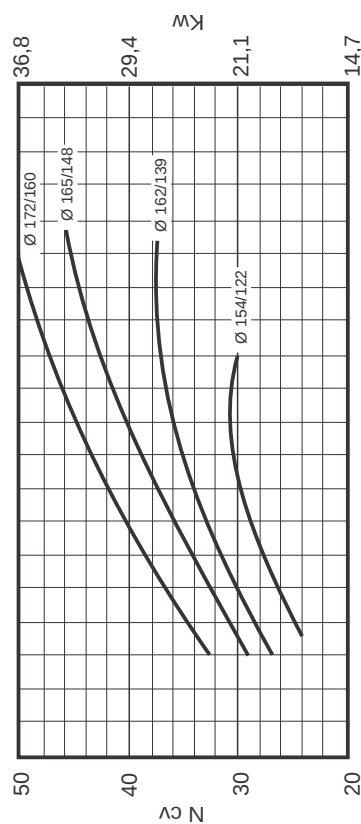
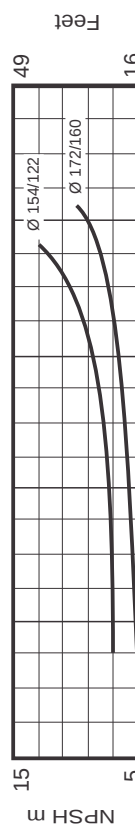
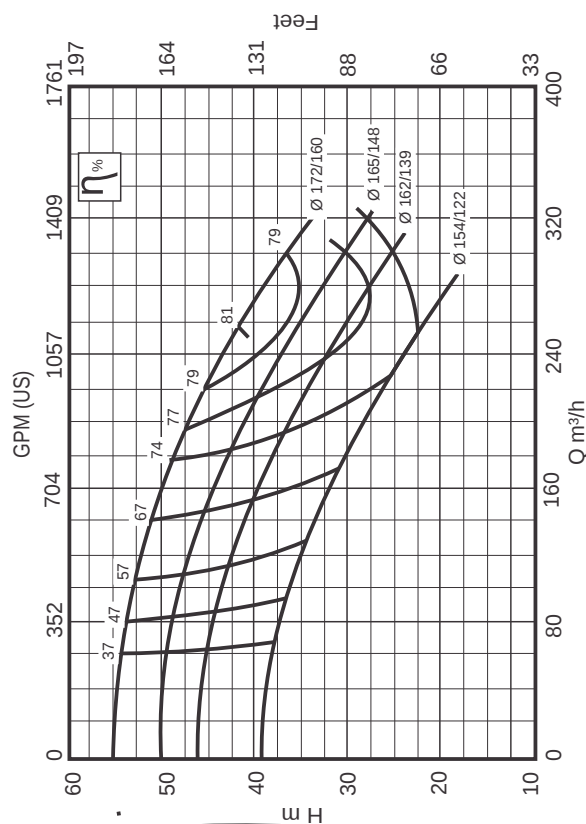


Suction Flange 125 mm  
Pressure Flange 80 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 219 mm  
Impeller Ø Min. 179 mm  
Impeller of Width 23 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 3500 rpm

## INI 80-160



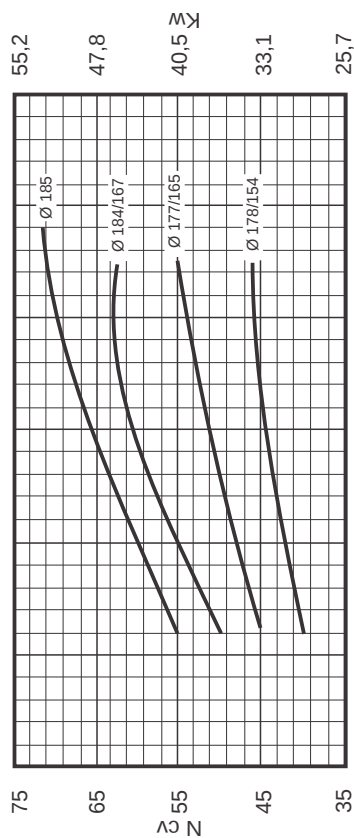
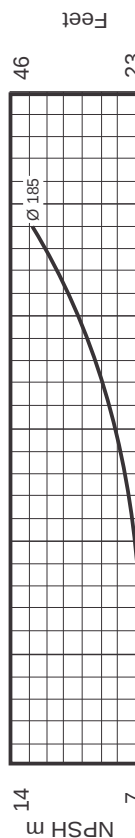
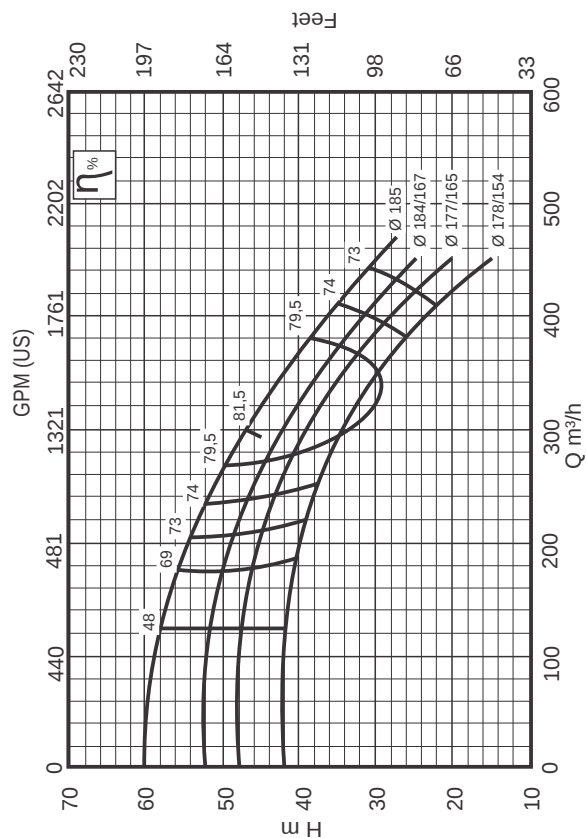
Suction Flange 125 mm  
Pressure Flange 80 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 172/160 mm  
Impeller Ø Min. 154/122 mm  
Impeller of Width 31 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 3500 rpm

## INI 100-160

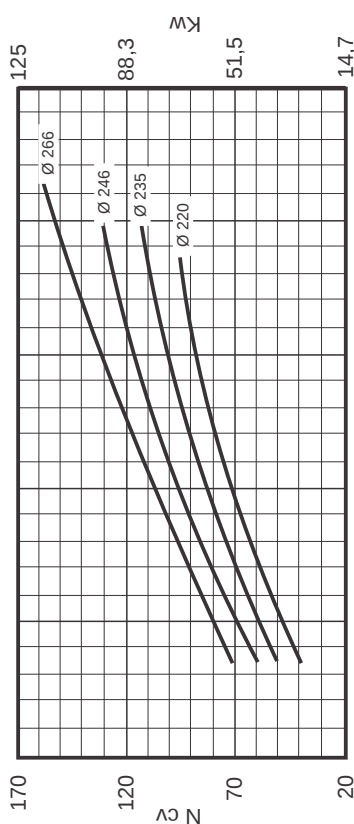
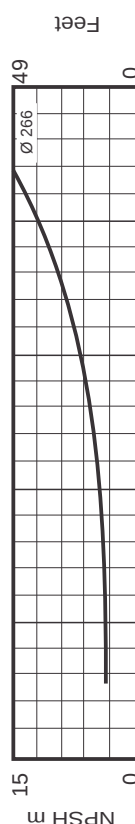
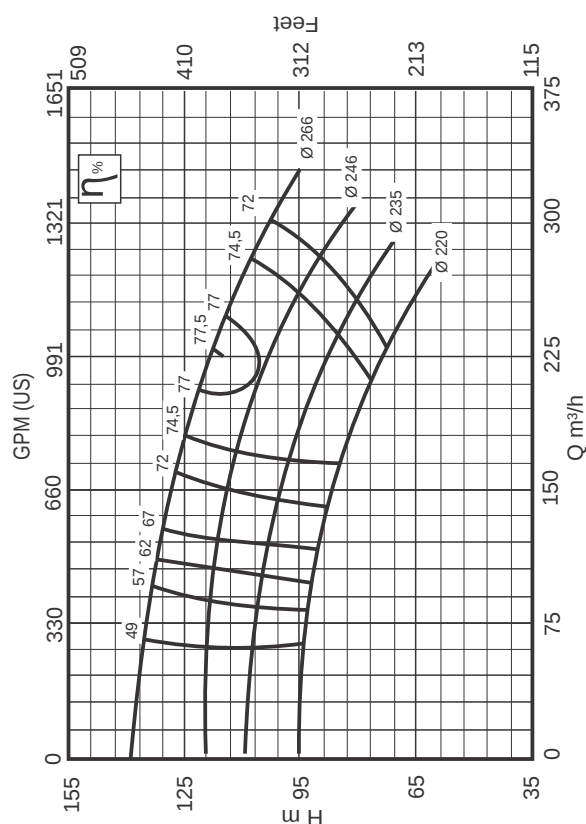


Suction Flange 125 mm  
Pressure Flange 100 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 185 mm  
Impeller Ø Min. 178/154 mm  
Impeller of Width 36 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 3500 rpm

## INI 80-250



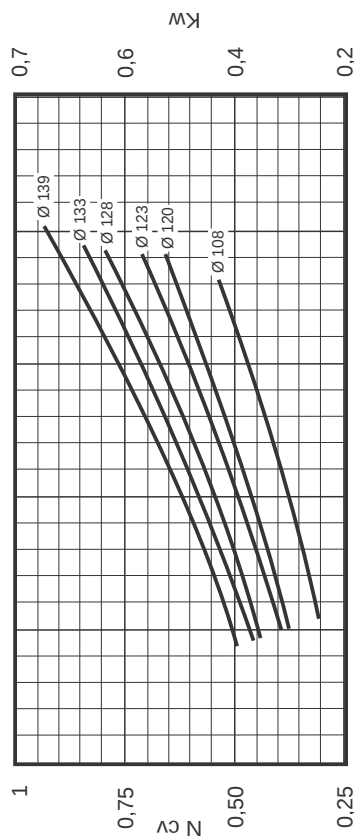
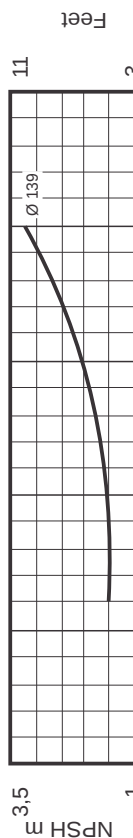
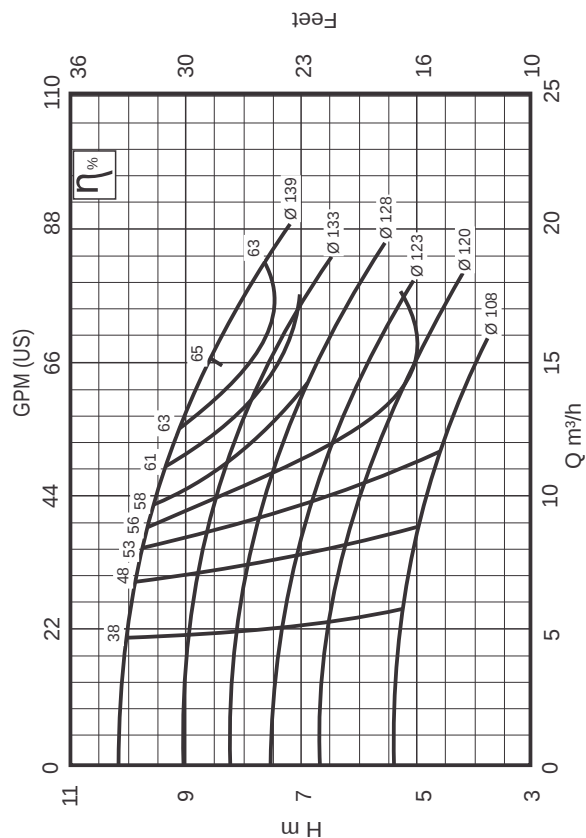
Suction Flange 125 mm  
Pressure Flange 80 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 266 mm  
Impeller Ø Min. 220 mm  
Impeller of Width 19 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 1750 rpm

## INI 32-125

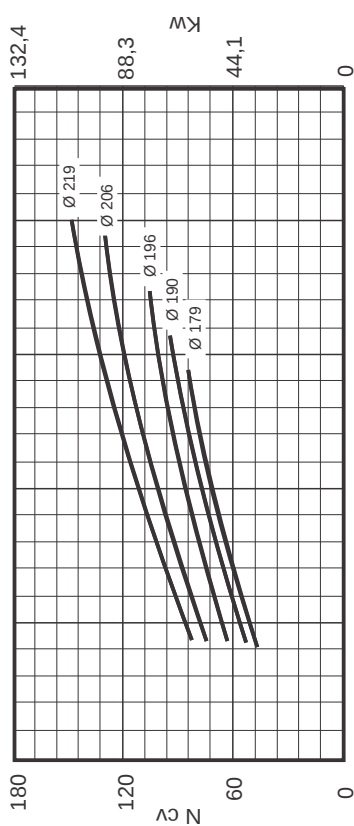
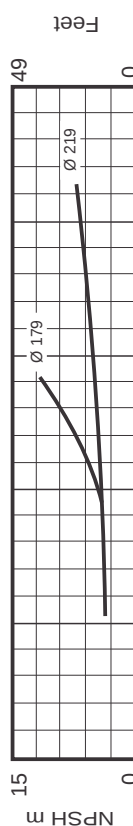
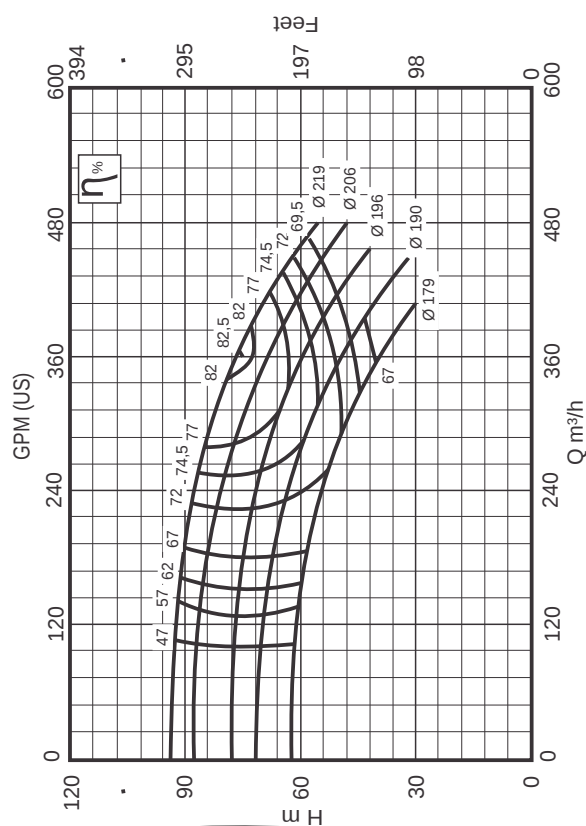


Suction Flange 50mm  
Pressure Flange 32 mm  
Specific Weight  $\gamma = 1\text{kgf/dm}^3$

Impeller Ø Max. 139 mm  
Impeller Ø Min. 108 mm  
Impeller of Width 9 mm  
Viscosity  $\mu = 1\text{cP}$

## 3500 rpm

## INI 100-200



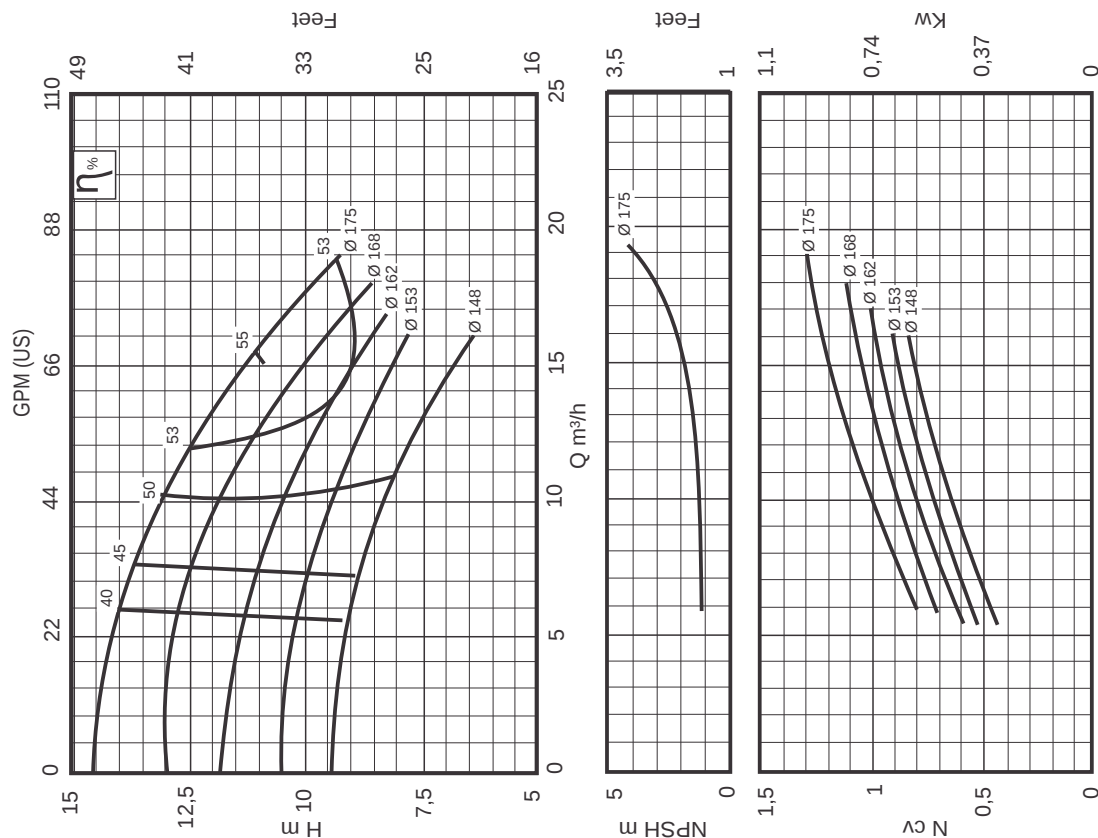
Suction Flange 125 mm  
Pressure Flange 100 mm  
Specific Weight  $\gamma = 1\text{kgf/dm}^3$

Impeller Ø Max. 219 mm  
Impeller Ø Min. 179 mm  
Impeller of Width 32 mm  
Viscosity  $\mu = 1\text{cP}$



## 1750rpm

## INI 32-160

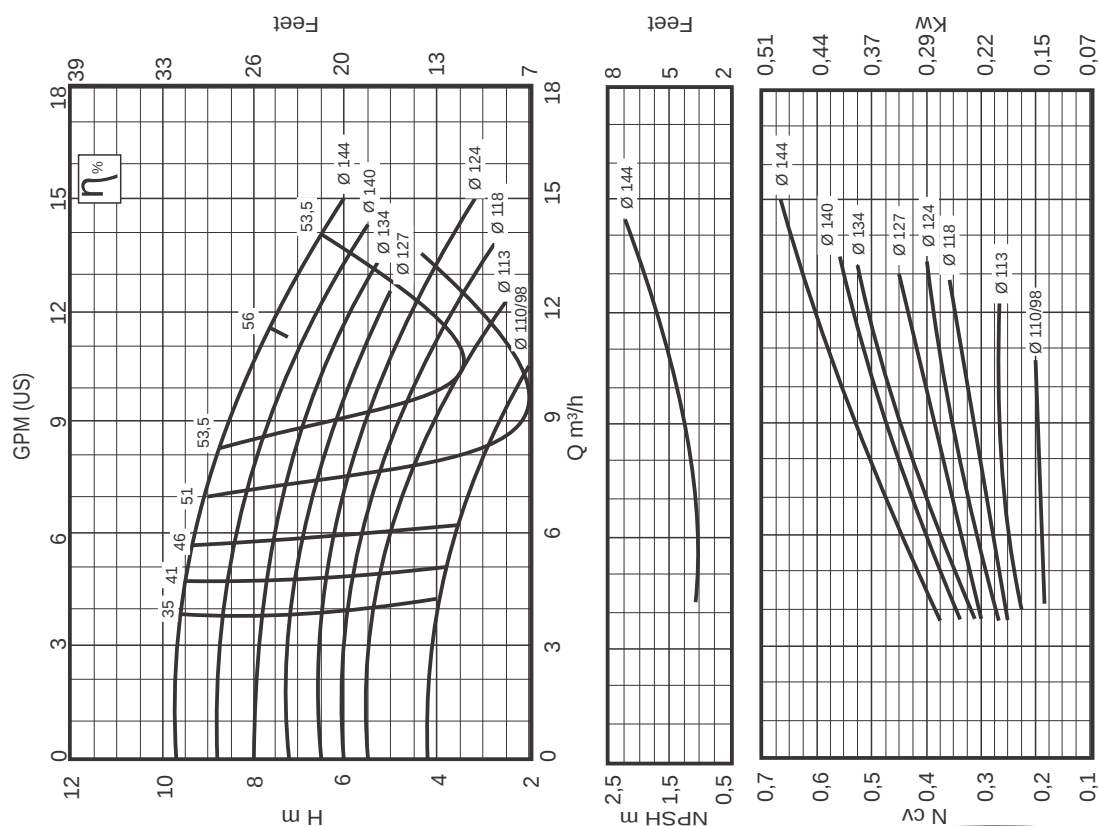


Suction Flange 50 mm  
Pressure Flange 32 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 176 mm  
Impeller Ø Min. 148 mm  
Impeller of Width 5 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 1750 rpm

## INI 32-125.1



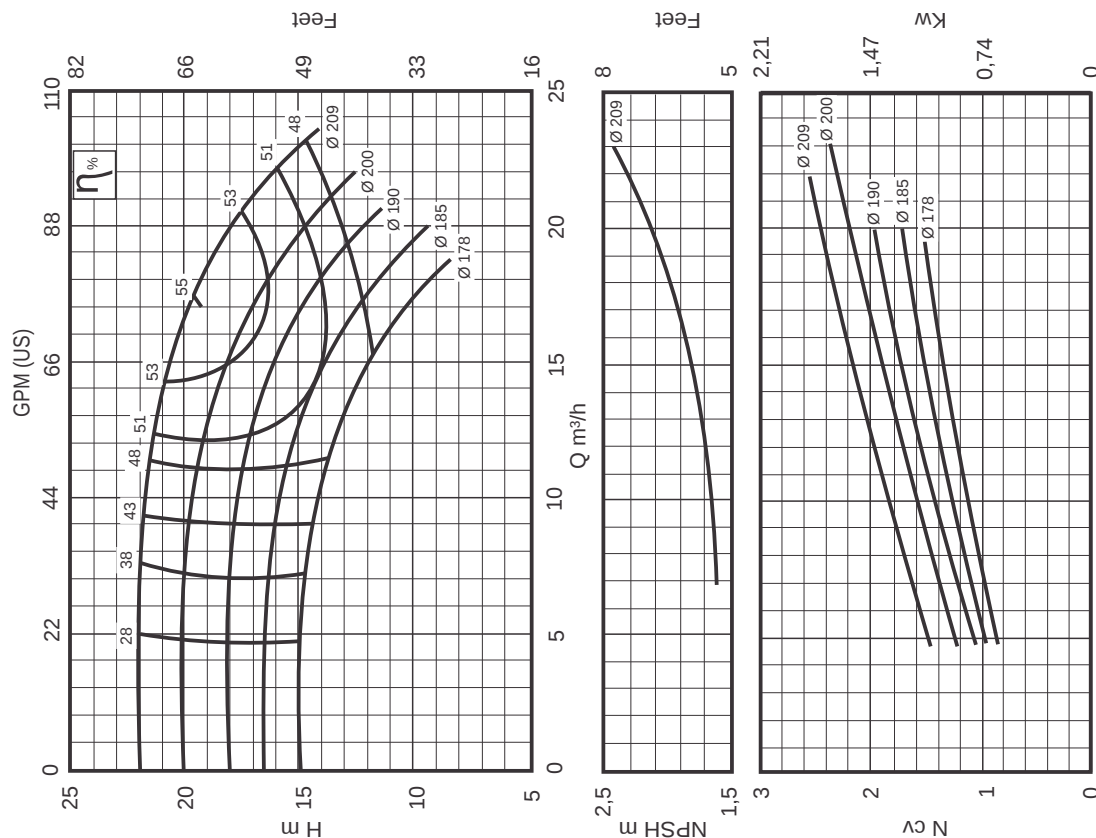
Suction Flange 50 mm  
Pressure Flange 32 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 144 mm  
Impeller Ø Min. 110/98 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 1750 rpm

### INI 32-200

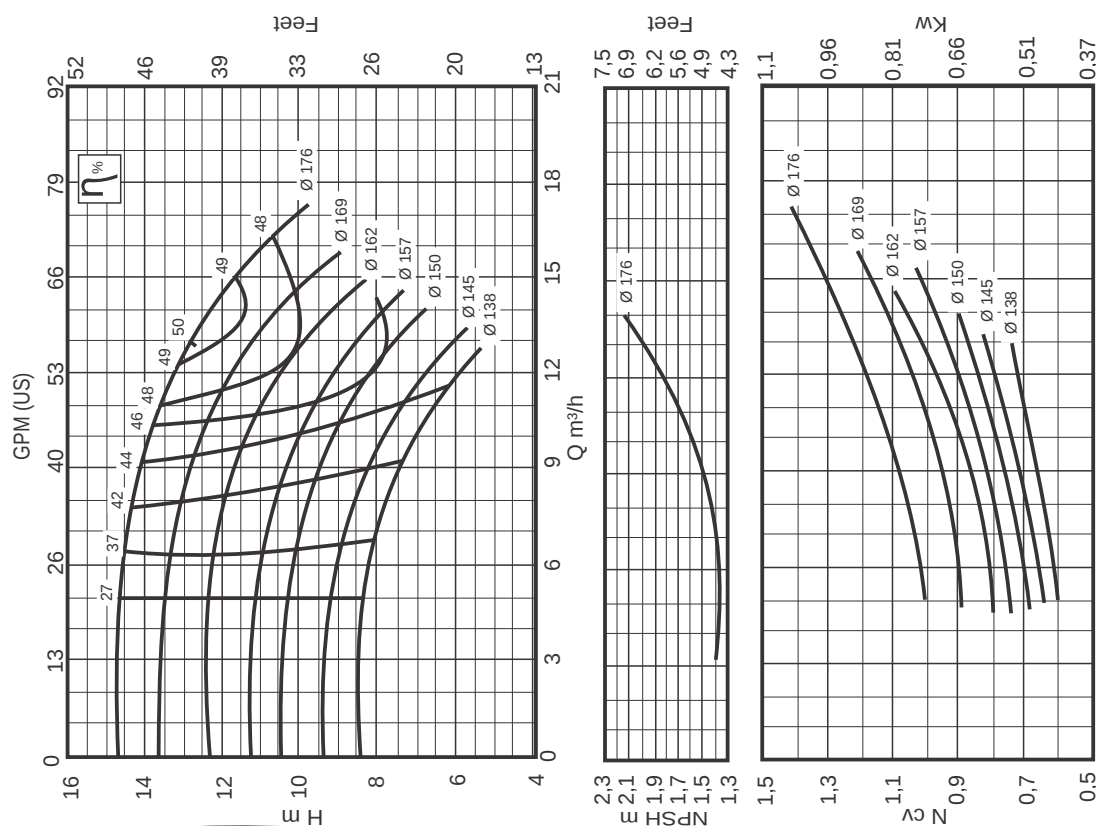


Suction Flange 50 mm  
Pressure Flange 32 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 209 mm  
Impeller Ø Min. 178 mm  
Impeller of Width 6 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 1750 rpm

### INI 32-160.1



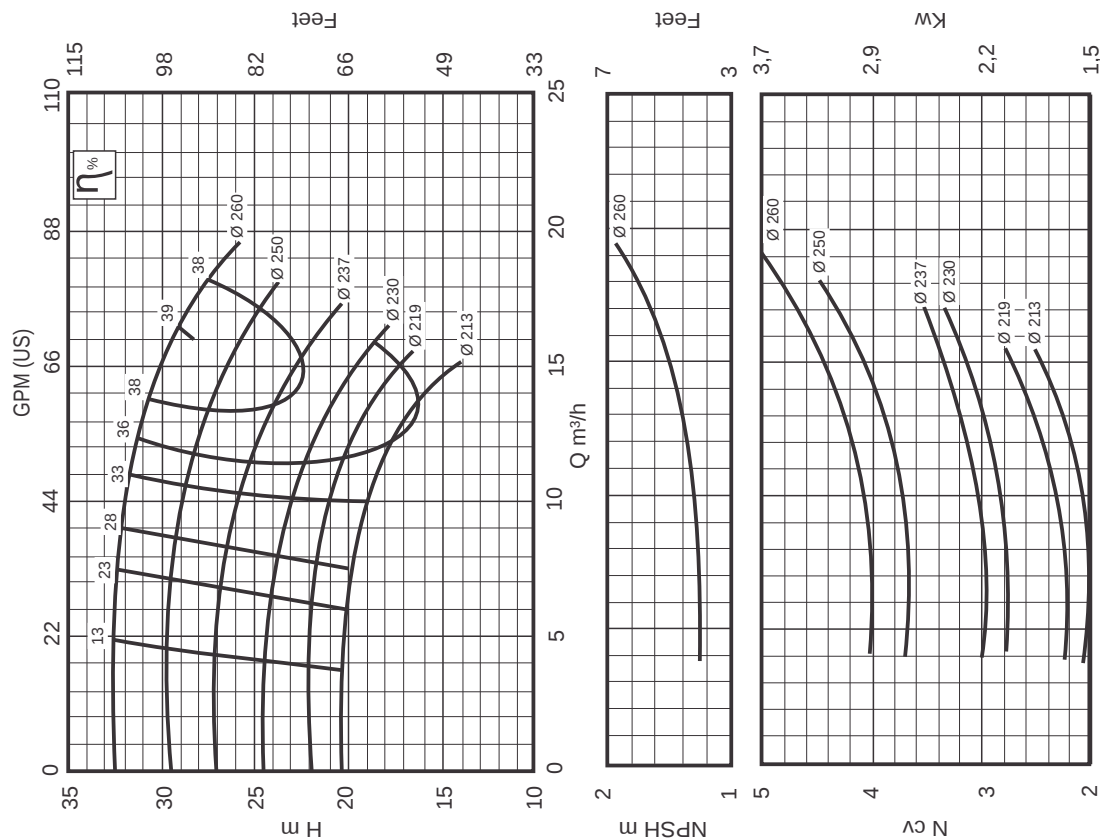
Suction Flange 50 mm  
Pressure Flange 32 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 176 mm  
Impeller Ø Min. 138 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 1750rpm

## INI 32-250

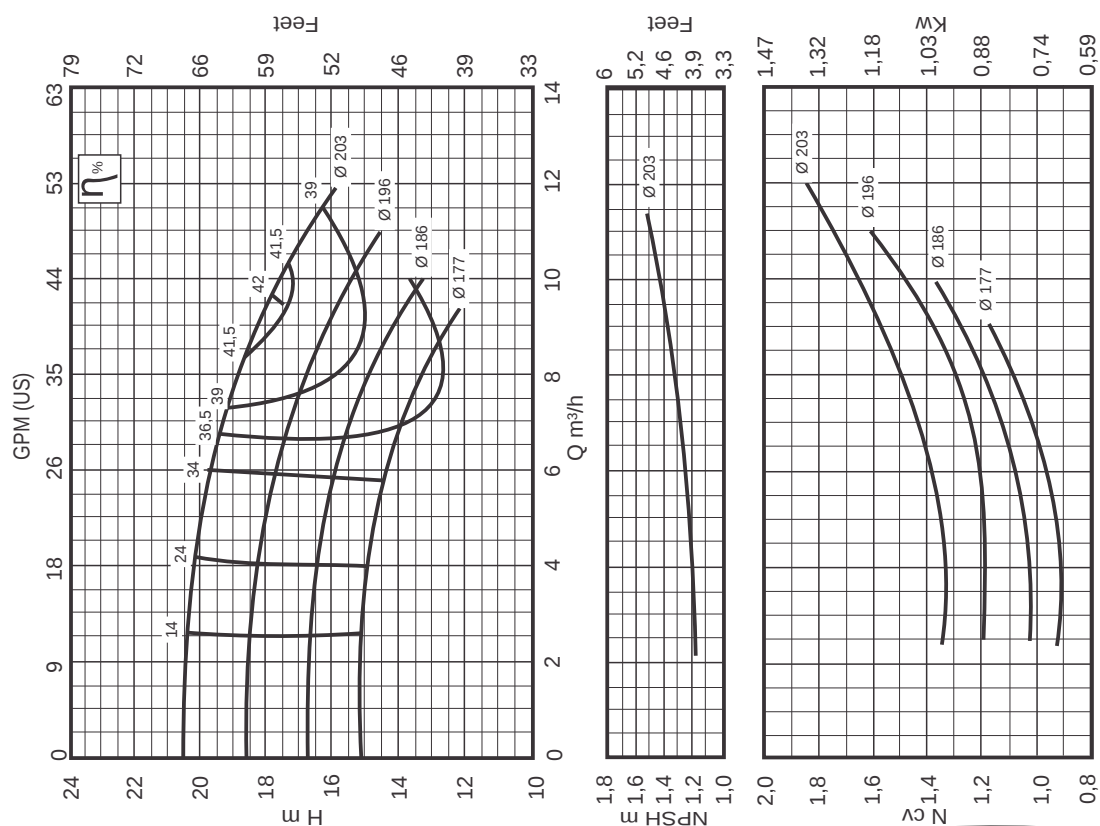


Suction Flange 50 mm  
Pressure Flange 32 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 260 mm  
Impeller Ø Min. 213 mm  
Impeller of Width 8 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 1750rpm

## INI 32-200.1



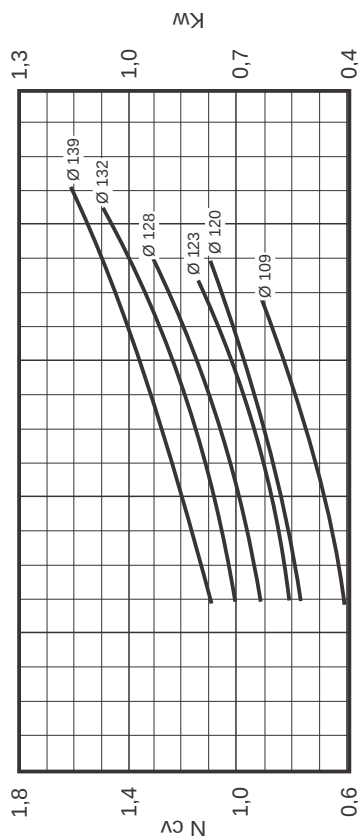
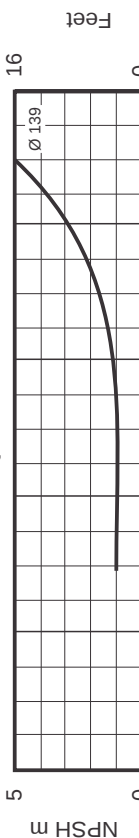
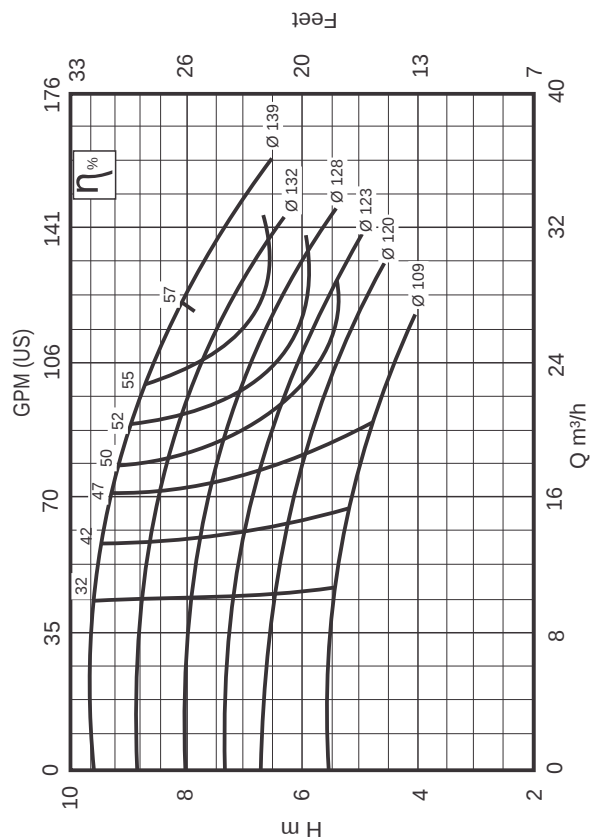
Suction Flange 50 mm  
Pressure Flange 32 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 203 mm  
Impeller Ø Min. 177 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 1750 rpm

### INI 40-125

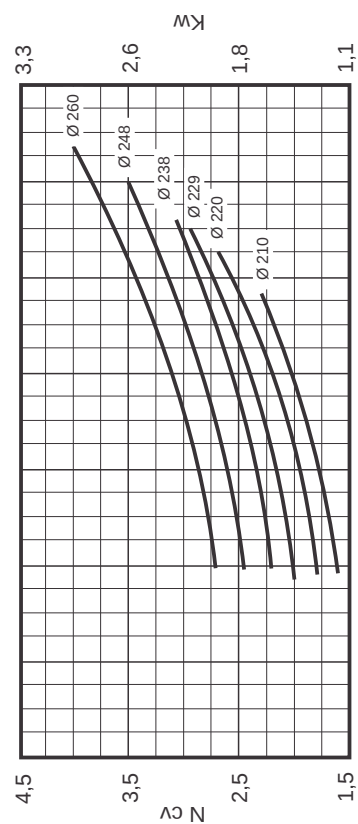
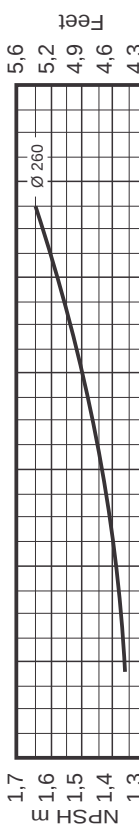
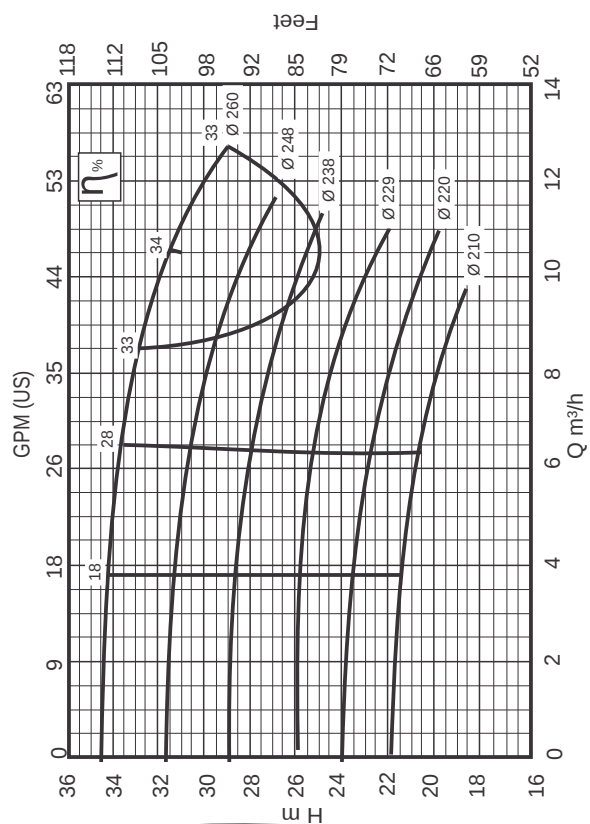


Suction Flange 65 mm  
Pressure Flange 40 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 139 mm  
Impeller Ø Min. 109 mm  
Impeller of Width 14 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 1750 rpm

### INI 32-250.1



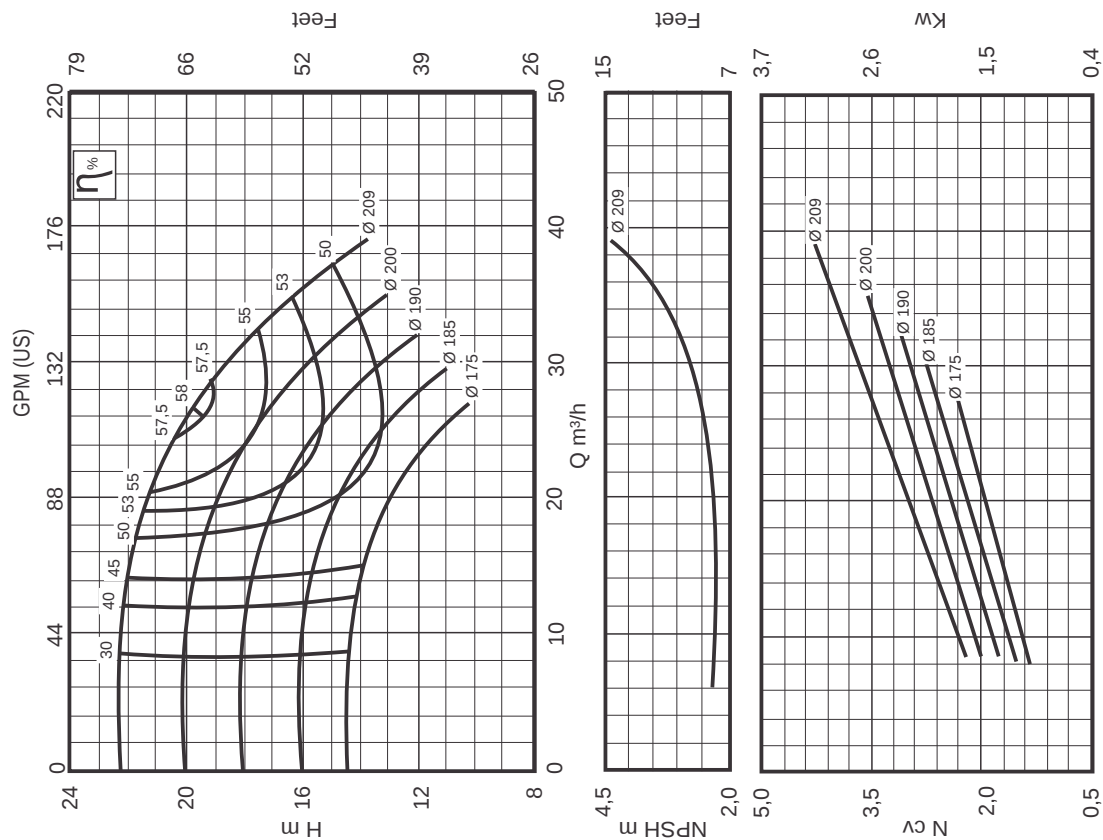
Suction Flange 50 mm  
Pressure Flange 32 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 260 mm  
Impeller Ø Min. 210 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 1750 rpm

### INI 40-200

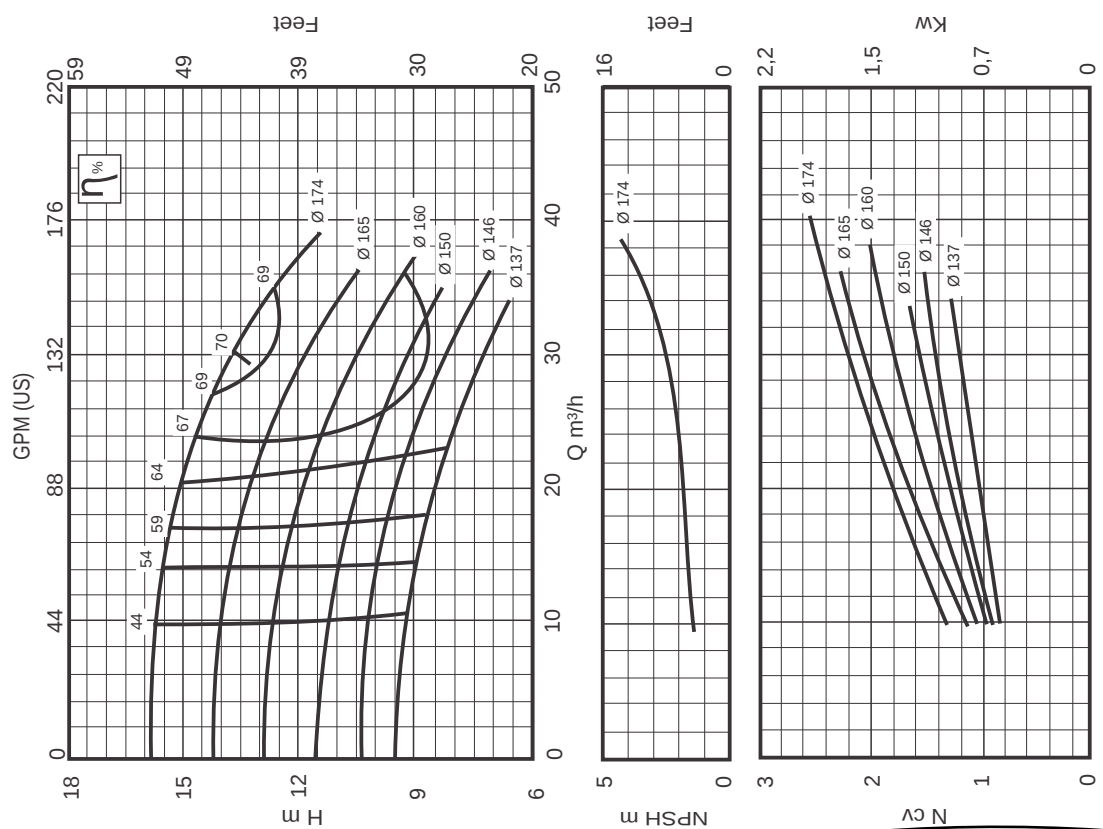


Impeller Ø Max. 209 mm  
Impeller Ø Min. 175 mm  
Impeller of Width 9 mm  
Viscosity  $\mu = 1\text{cP}$

Suction Flange 65 mm  
Pressure Flange 40 mm  
Specific Weight  $\gamma = 1\text{kgf/dm}^3$

## 1750 rpm

### INI 40-160



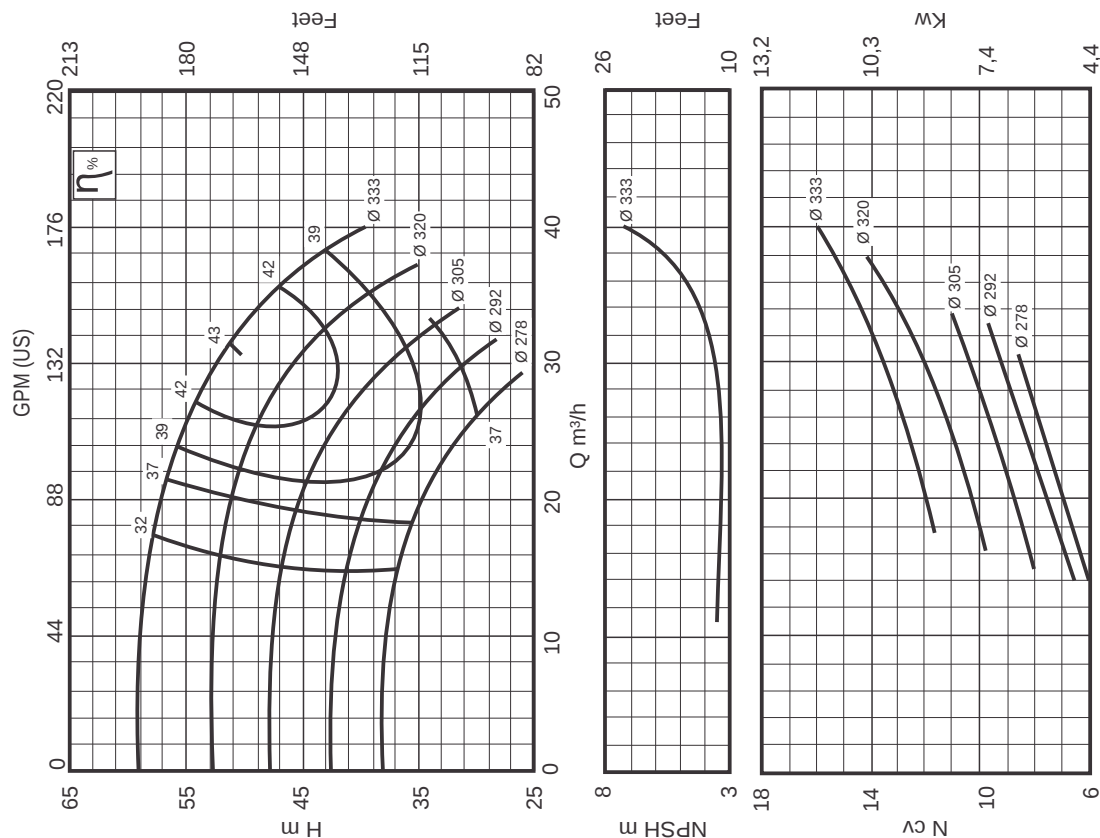
Impeller Ø Max. 174 mm  
Impeller Ø Min. 137 mm  
Impeller of Width 12 mm  
Viscosity  $\mu = 1\text{cP}$

Suction Flange 65 mm  
Pressure Flange 40 mm  
Specific Weight  $\gamma = 1\text{kgf/dm}^3$



## 1750 rpm

## INI 40-315

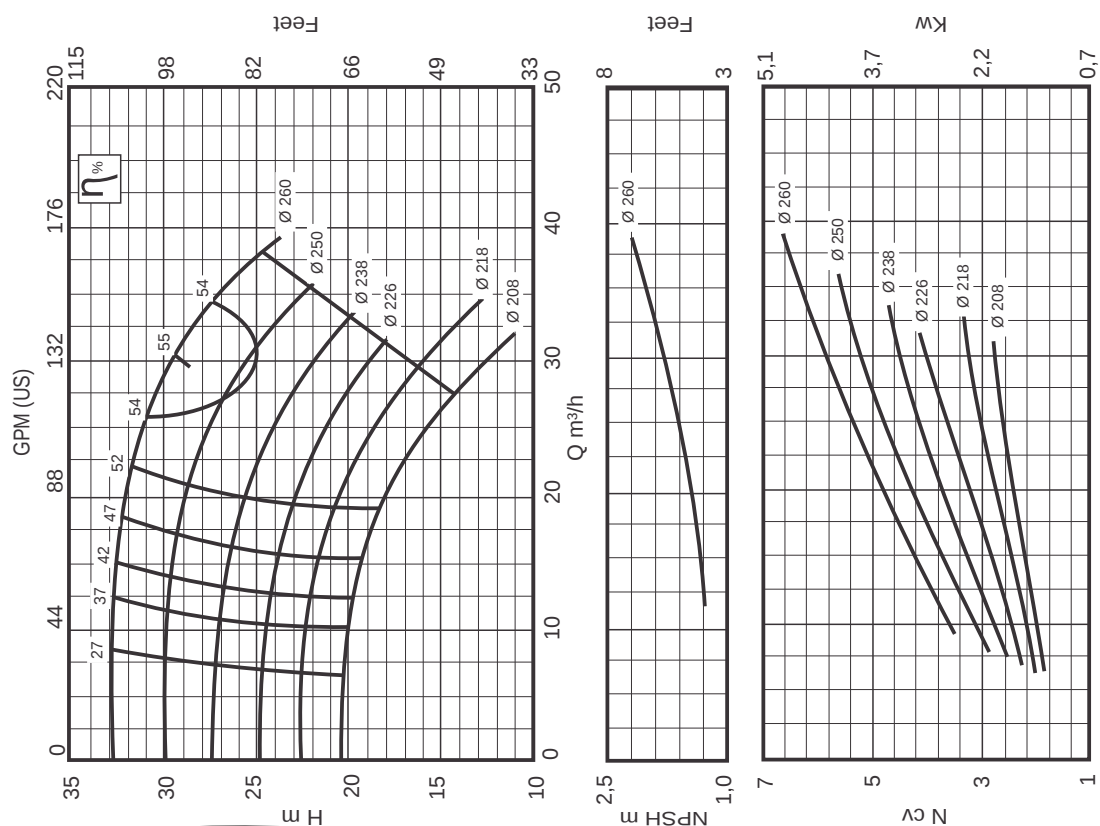


Suction Flange 65 mm  
Pressure Flange 40 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 333 mm  
Impeller Ø Min. 278 mm  
Impeller of Width 9 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 1750 rpm

## INI 40-250



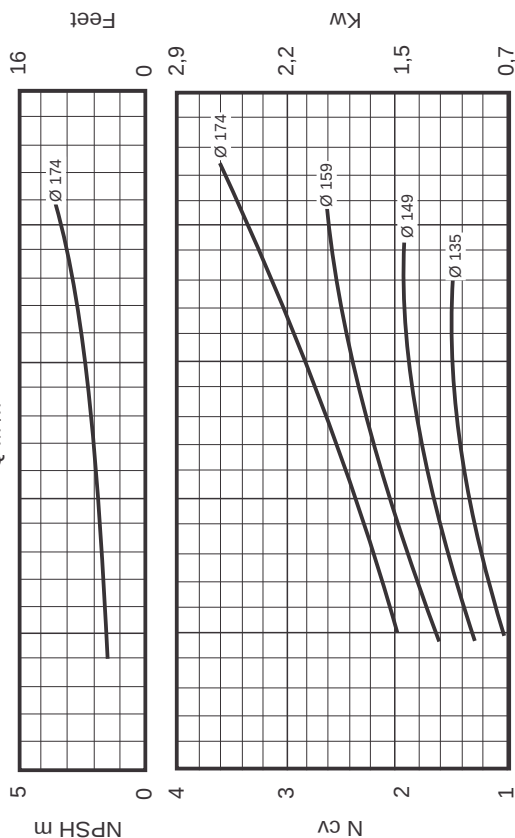
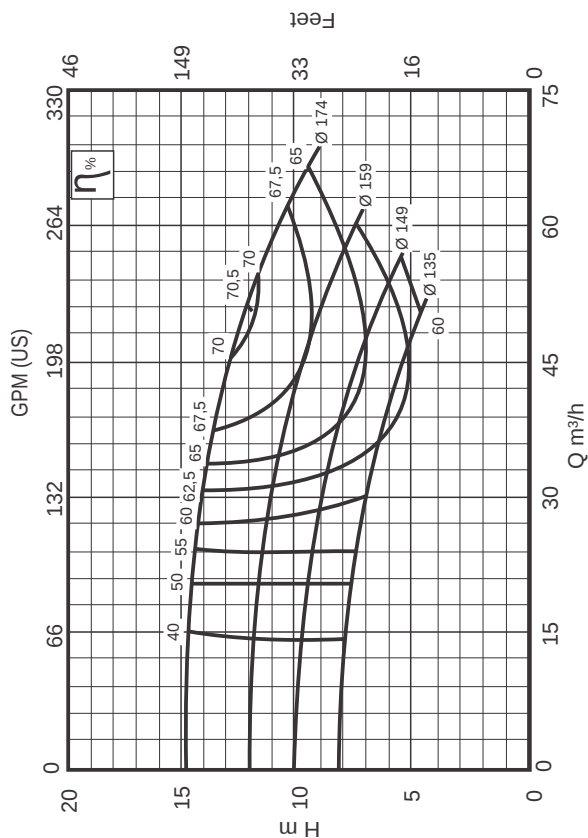
Suction Flange 65 mm  
Pressure Flange 40 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 260 mm  
Impeller Ø Min. 208 mm  
Impeller of Width 8 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 1750 rpm

## INI 50-160

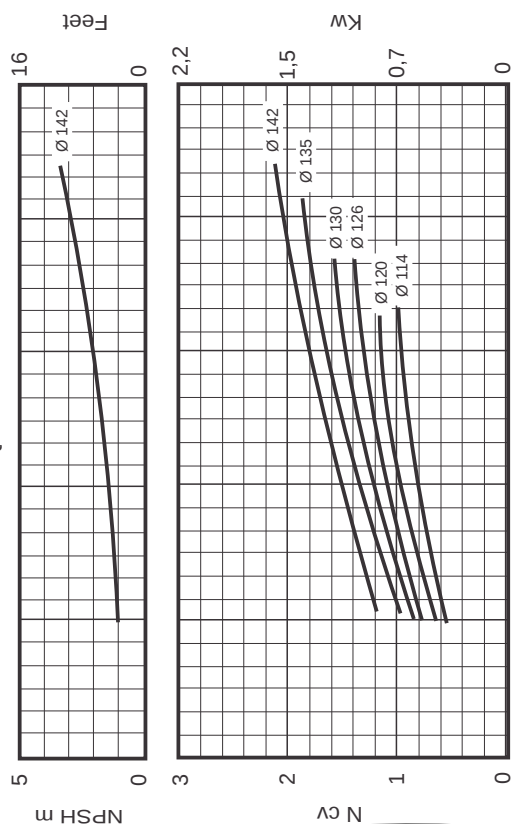
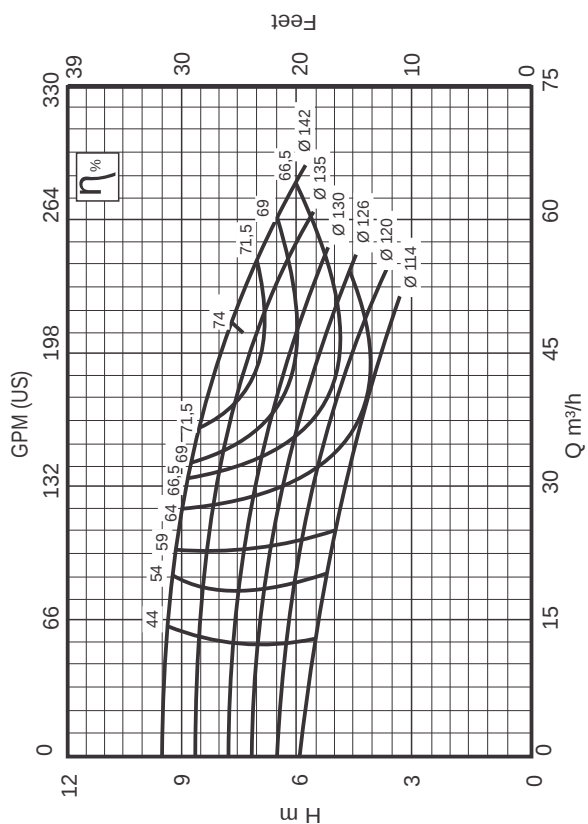


Suction Flange 80 mm  
Pressure Flange 50 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 174 mm  
Impeller Ø Min. 135 mm  
Impeller of Width 16 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 1750 rpm

## INI 50-125



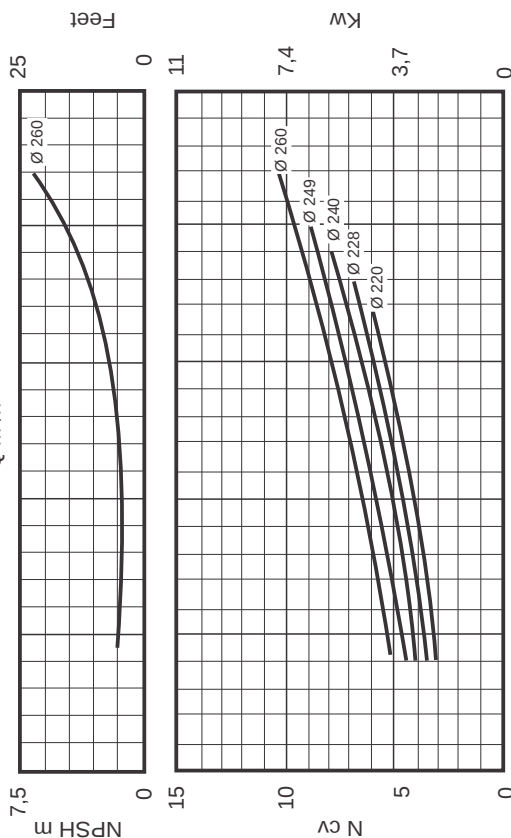
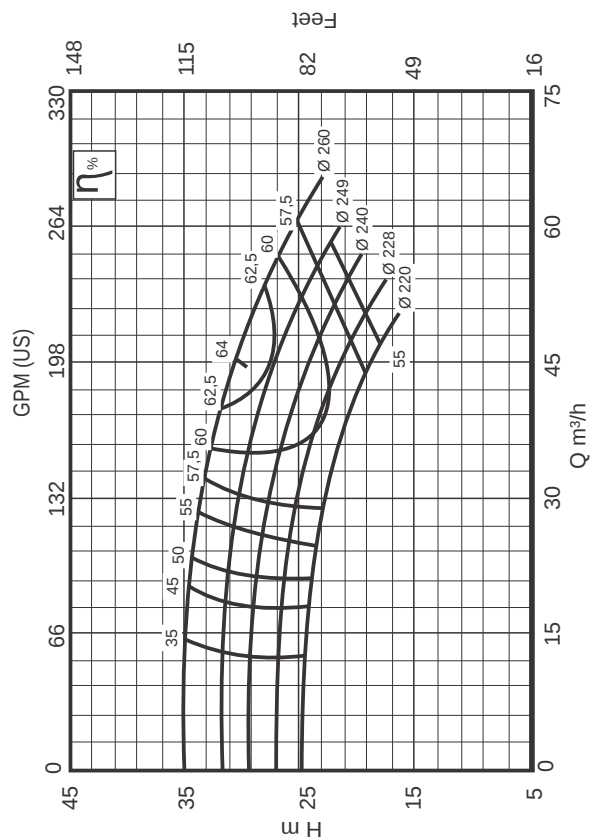
Suction Flange 80 mm  
Pressure Flange 50 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 142 mm  
Impeller Ø Min. 114 mm  
Impeller of Width 20 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 1750 rpm

## INI 50-250

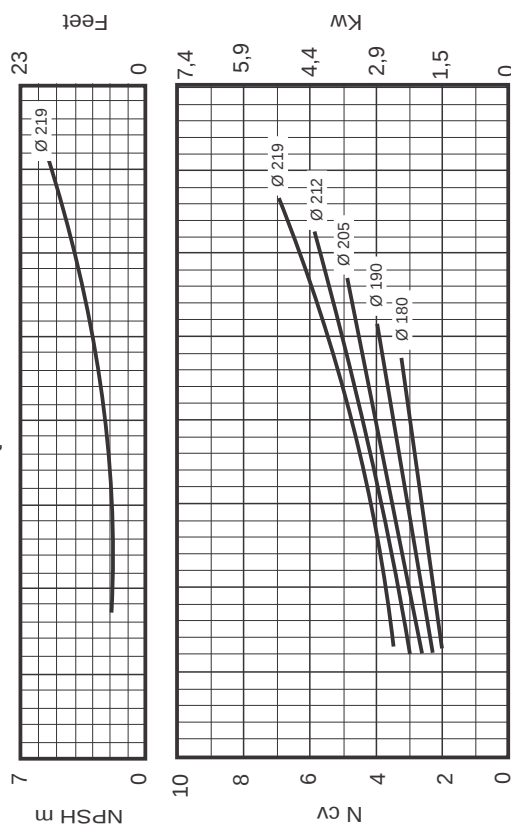
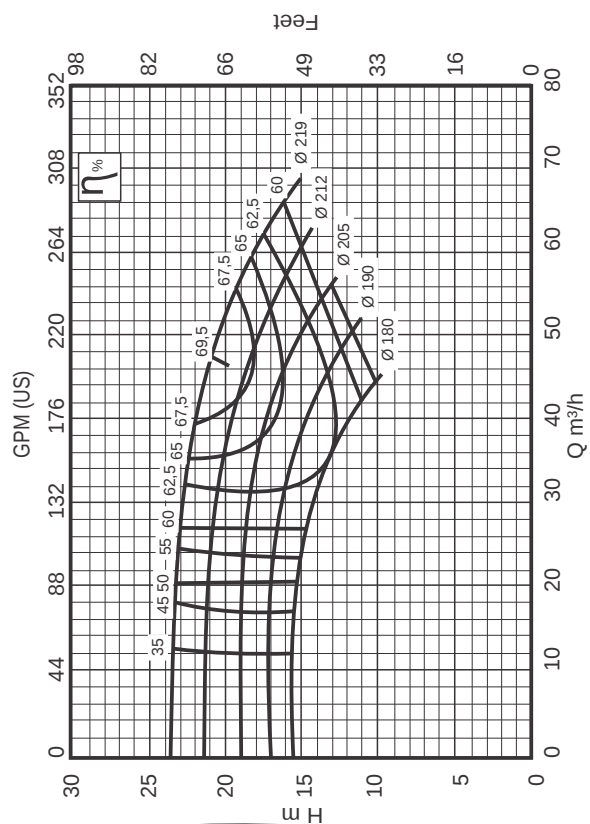


Suction Flange 80 mm  
Pressure Flange 50 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 260 mm  
Impeller Ø Min. 220 mm  
Impeller of Width 12 mm  
Viscosity  $\mu = 1 \text{ cP}$

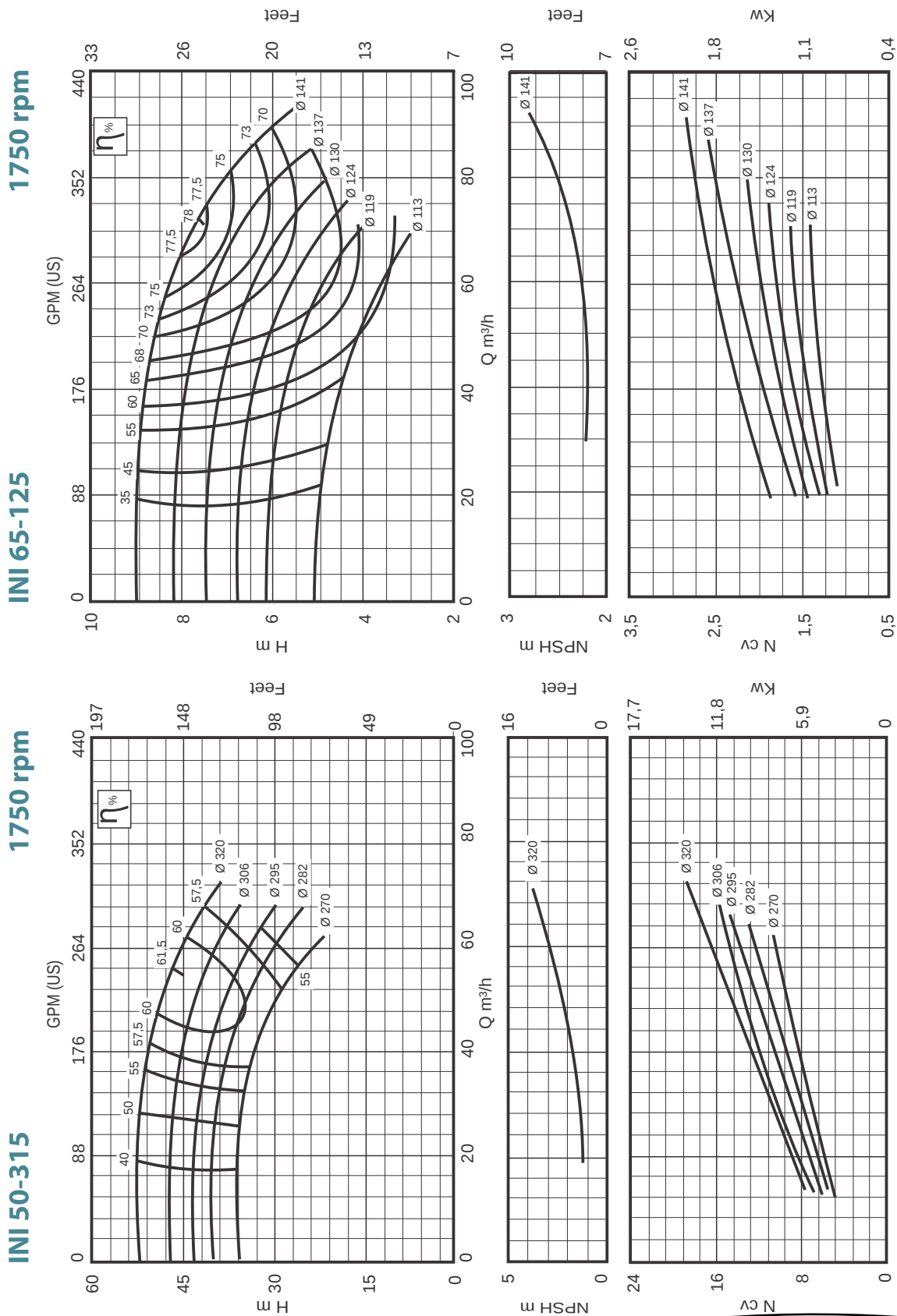
## 1750 rpm

## INI 50-200



Suction Flange 80 mm  
Pressure Flange 50 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 219 mm  
Impeller Ø Min. 180 mm  
Impeller of Width 11 mm  
Viscosity  $\mu = 1 \text{ cP}$



Suction Flange 100 mm  
Pressure Flange 65 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 141 mm  
Impeller Ø Min. 113 mm  
Impeller of Width 25 mm  
Viscosity  $\mu = 1 \text{ cP}$

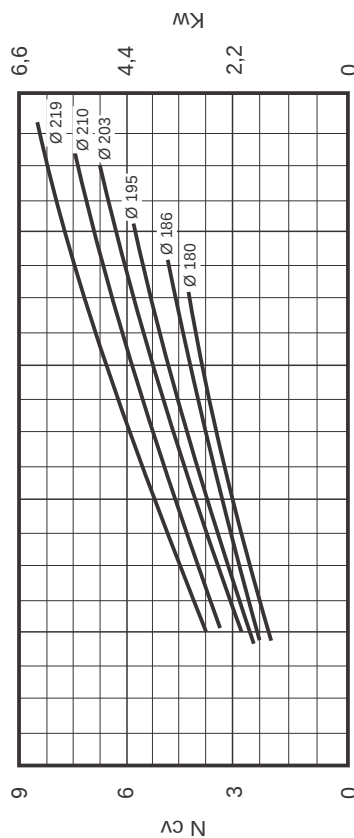
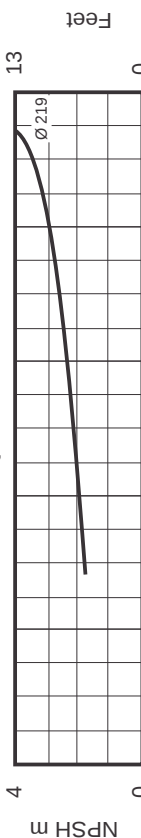
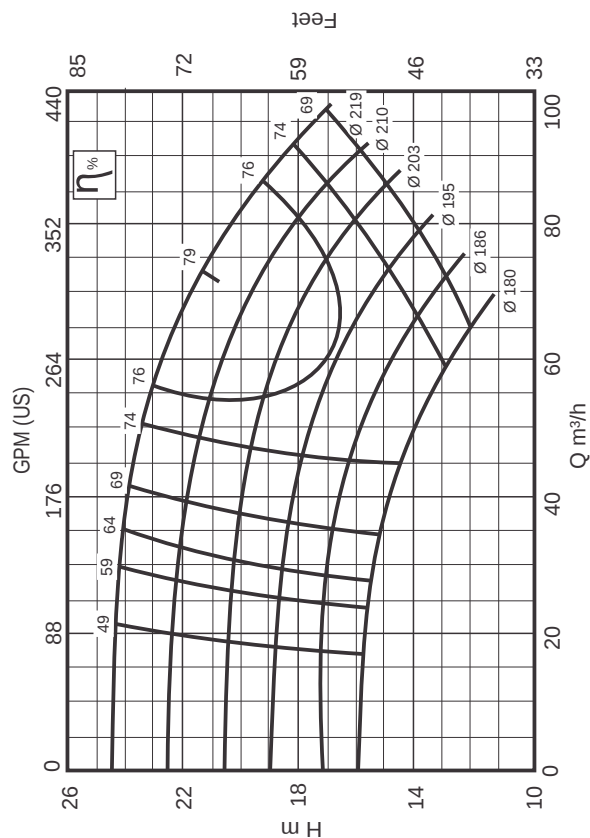
Suction Flange 80 mm  
Pressure Flange 50 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 320 mm  
Impeller Ø Min. 270 mm  
Impeller of Width 9 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 1750 rpm

## INI 65-200

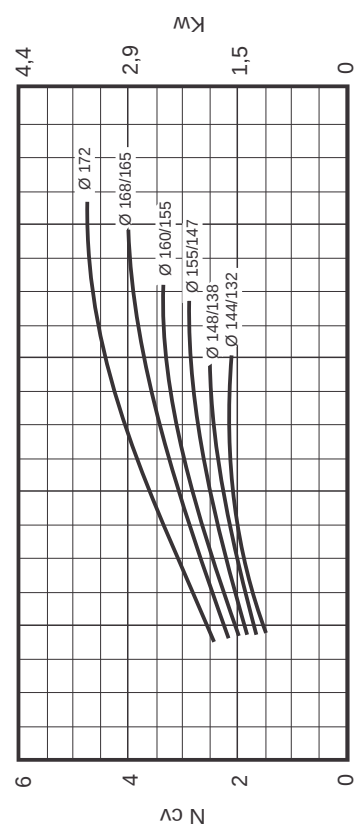
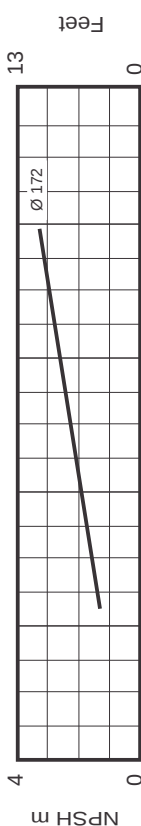
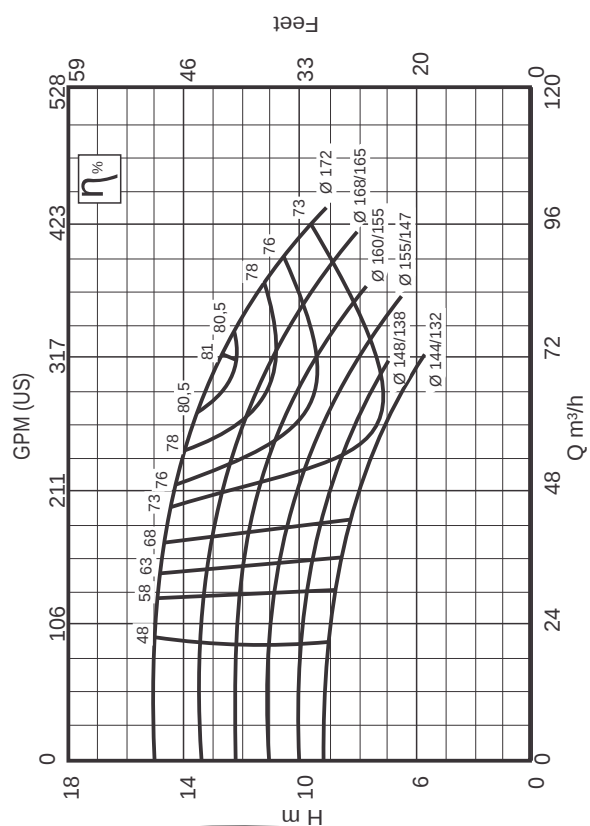


Impeller Ø Max. 219 mm  
Impeller Ø Min. 180 mm  
Impeller of Width 17 mm  
Viscosity  $\mu = 1\text{cP}$

Suction Flange 100 mm  
Pressure Flange 65 mm  
Specific Weight  $\gamma = 1\text{kgf/dm}^3$

## 1750 rpm

## INI 65-160



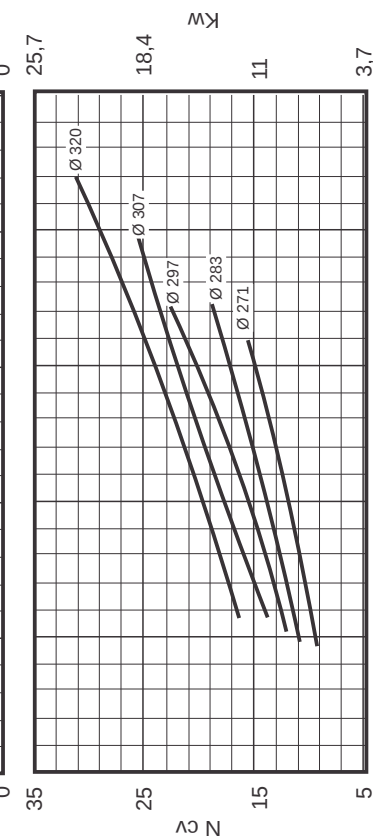
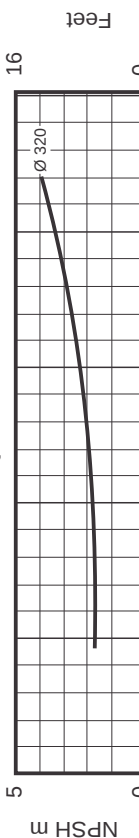
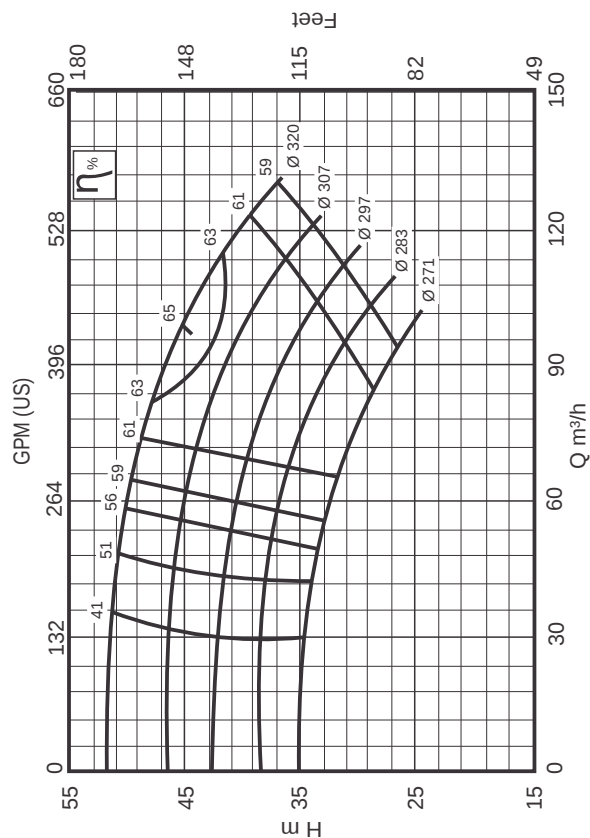
Impeller Ø Max. 172 mm  
Impeller Ø Min. 144/132 mm  
Impeller of Width 21 mm  
Viscosity  $\mu = 1\text{cP}$

Suction Flange 100 mm  
Pressure Flange 65 mm  
Specific Weight  $\gamma = 1\text{kgf/dm}^3$



## 1750 rpm

## INI 65-315

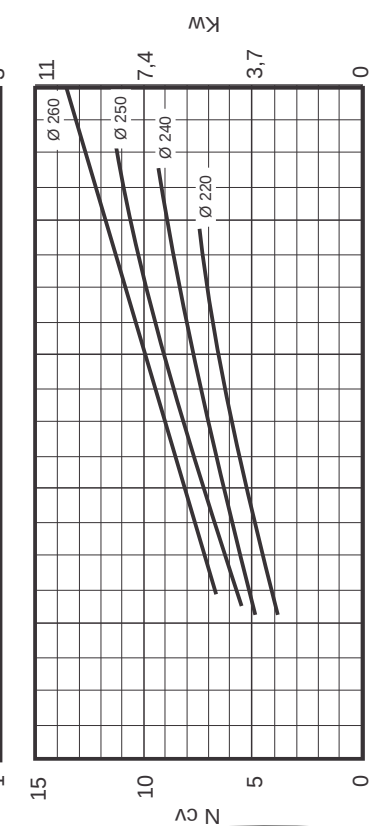
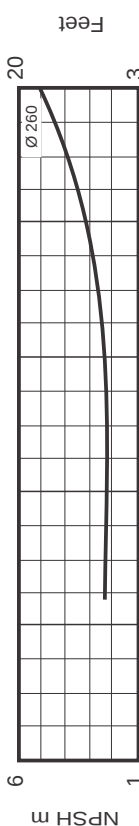
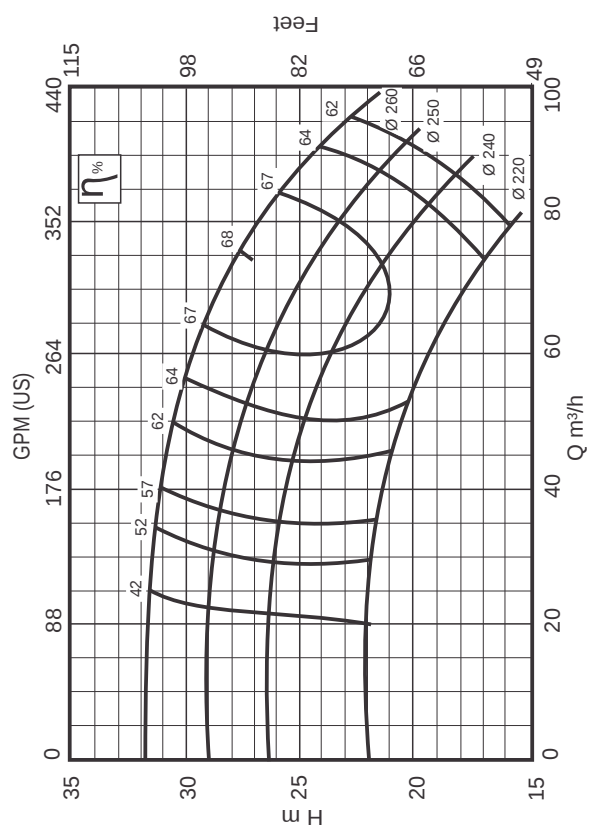


Suction Flange 100 mm  
Pressure Flange 65 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 320 mm  
Impeller Ø Min. 271 mm  
Impeller of Width 13 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 1750 rpm

## INI 65-250



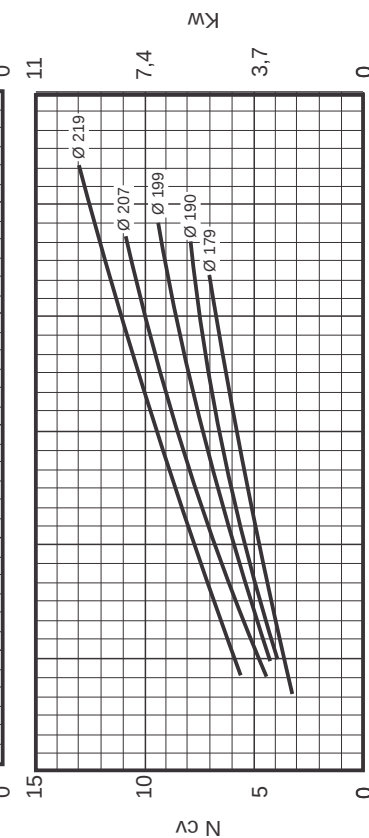
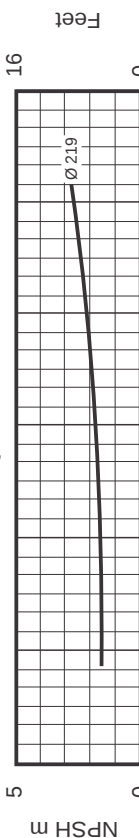
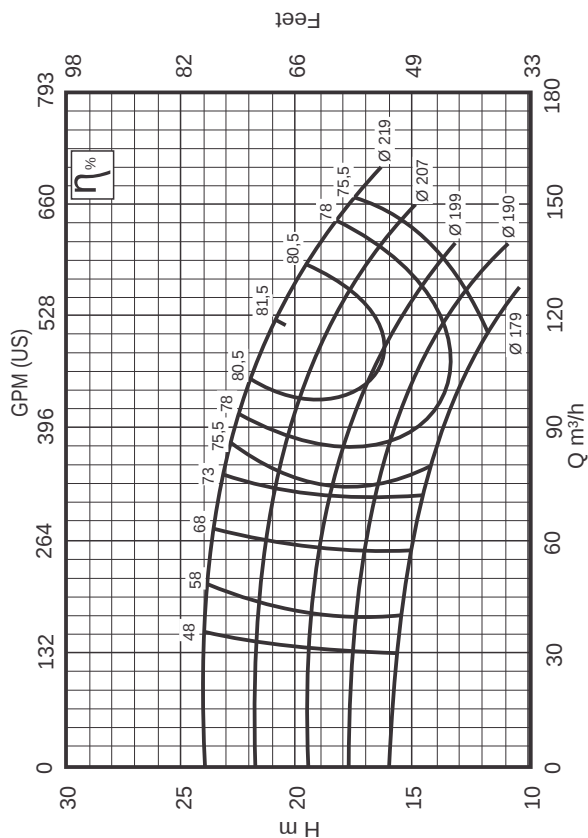
Suction Flange 100 mm  
Pressure Flange 65 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 260 mm  
Impeller Ø Min. 220 mm  
Impeller of Width 13 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 1750 rpm

## INI 80-200

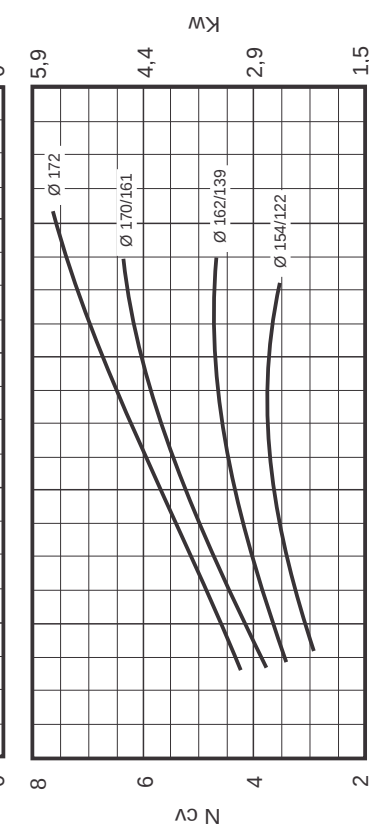
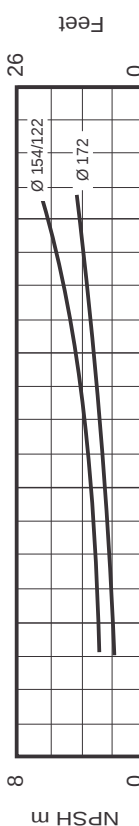
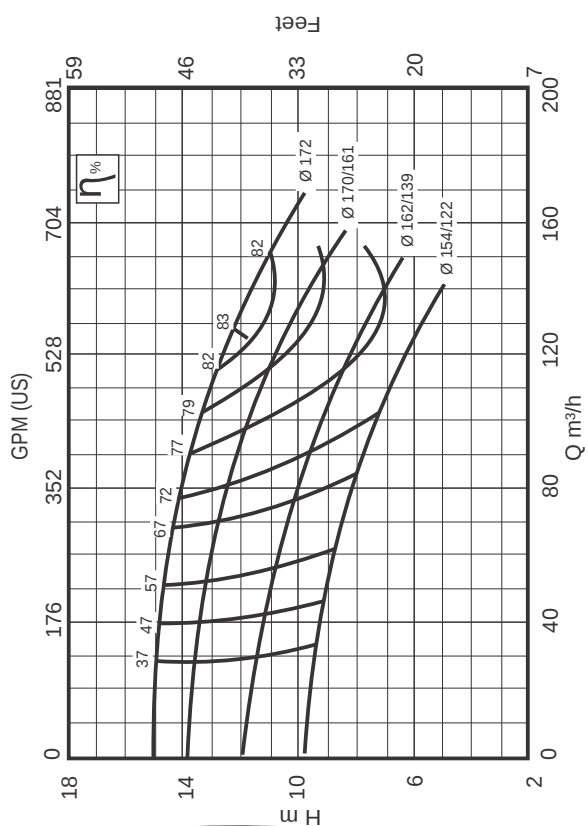


Suction Flange 125 mm  
Pressure Flange 80 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 219 mm  
Impeller Ø Min. 179 mm  
Impeller of Width 23 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 1750 rpm

## INI 80-160



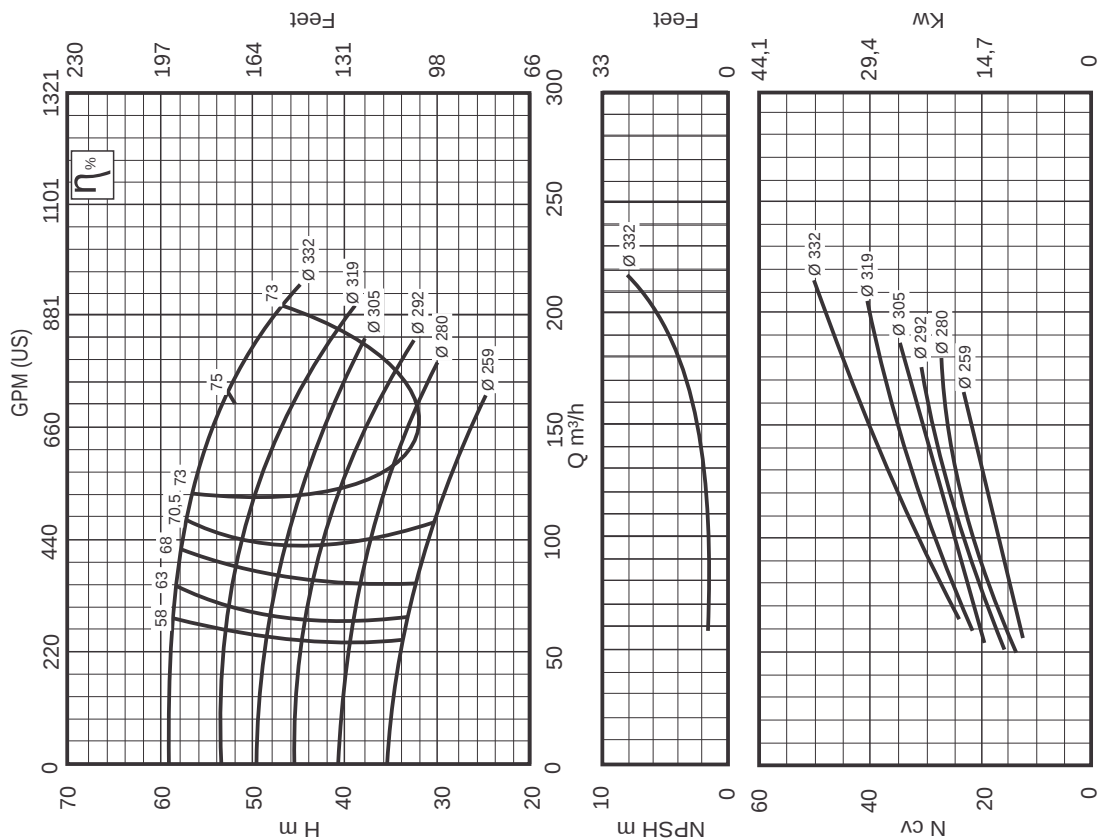
Suction Flange 125 mm  
Pressure Flange 80 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 172 mm  
Impeller Ø Min. 154/122 mm  
Impeller of Width 31 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 1750 rpm

## INI 80-315

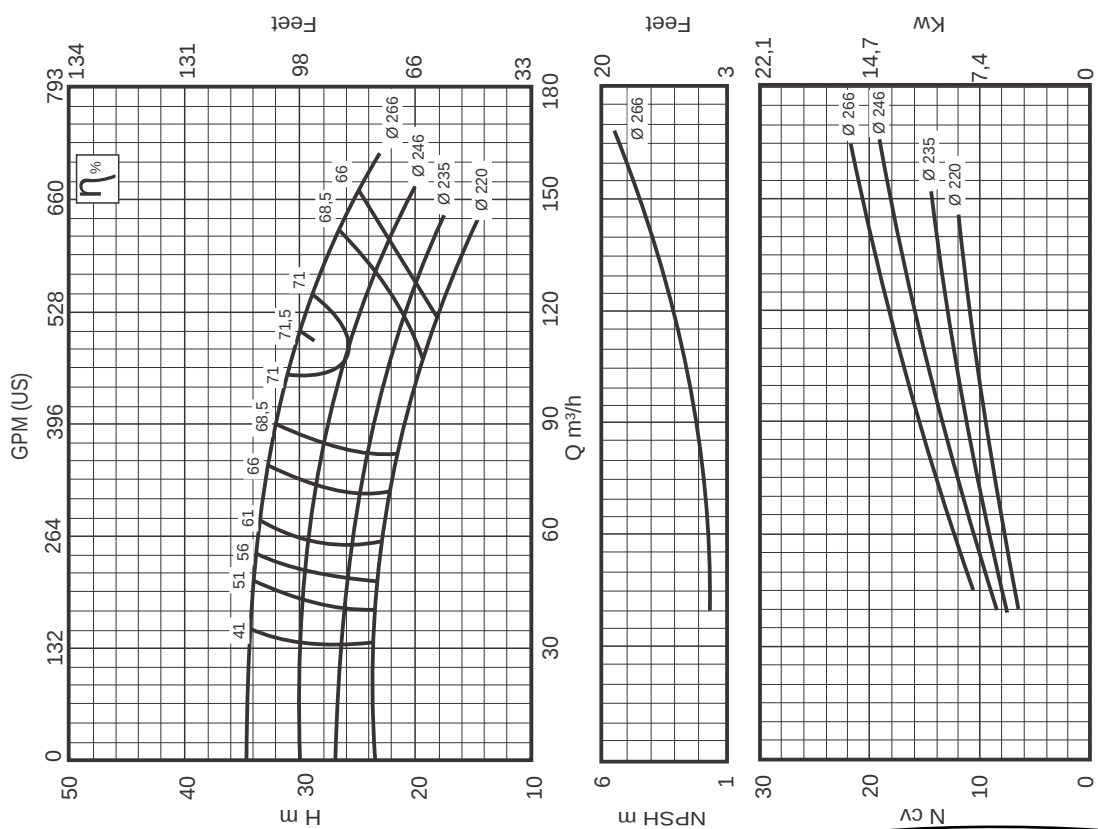


Suction Flange 125 mm  
Pressure Flange 80 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 332 mm  
Impeller Ø Min. 259 mm  
Impeller of Width 18 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 1750 rpm

## INI 80-250



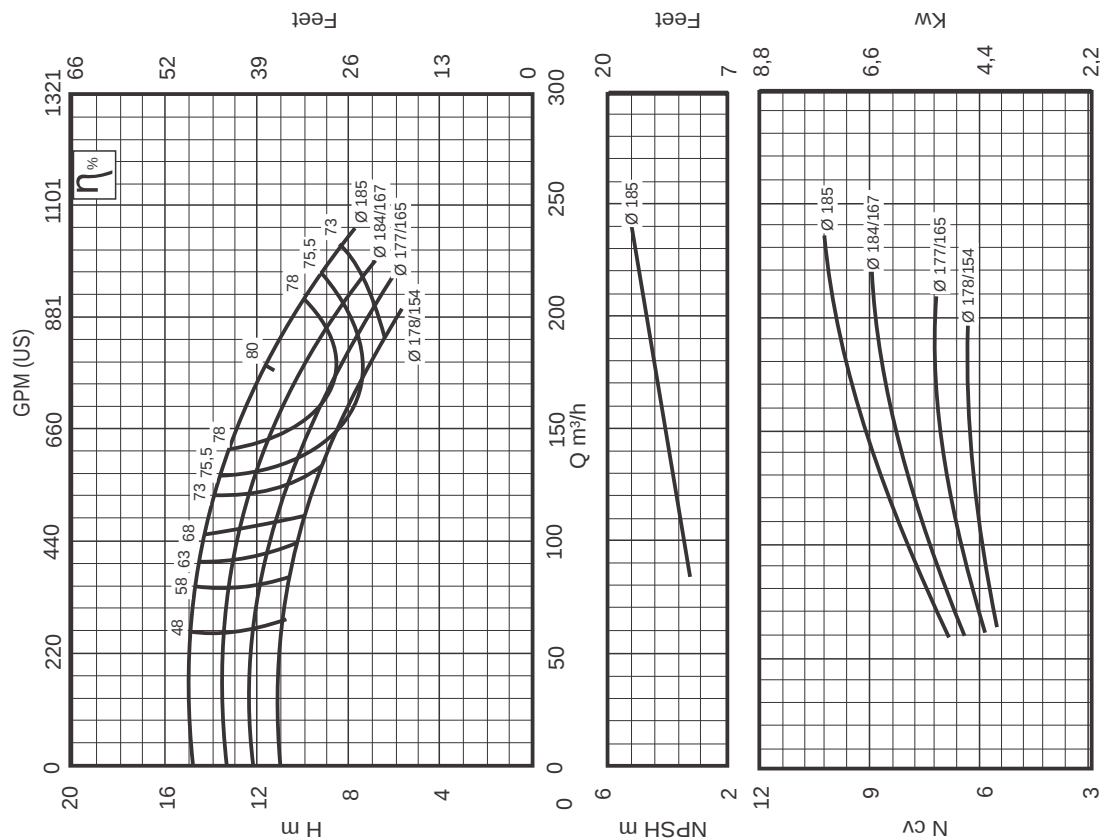
Suction Flange 125 mm  
Pressure Flange 80 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 266 mm  
Impeller Ø Min. 220 mm  
Impeller of Width 19 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 1750 rpm

## INI 100-160

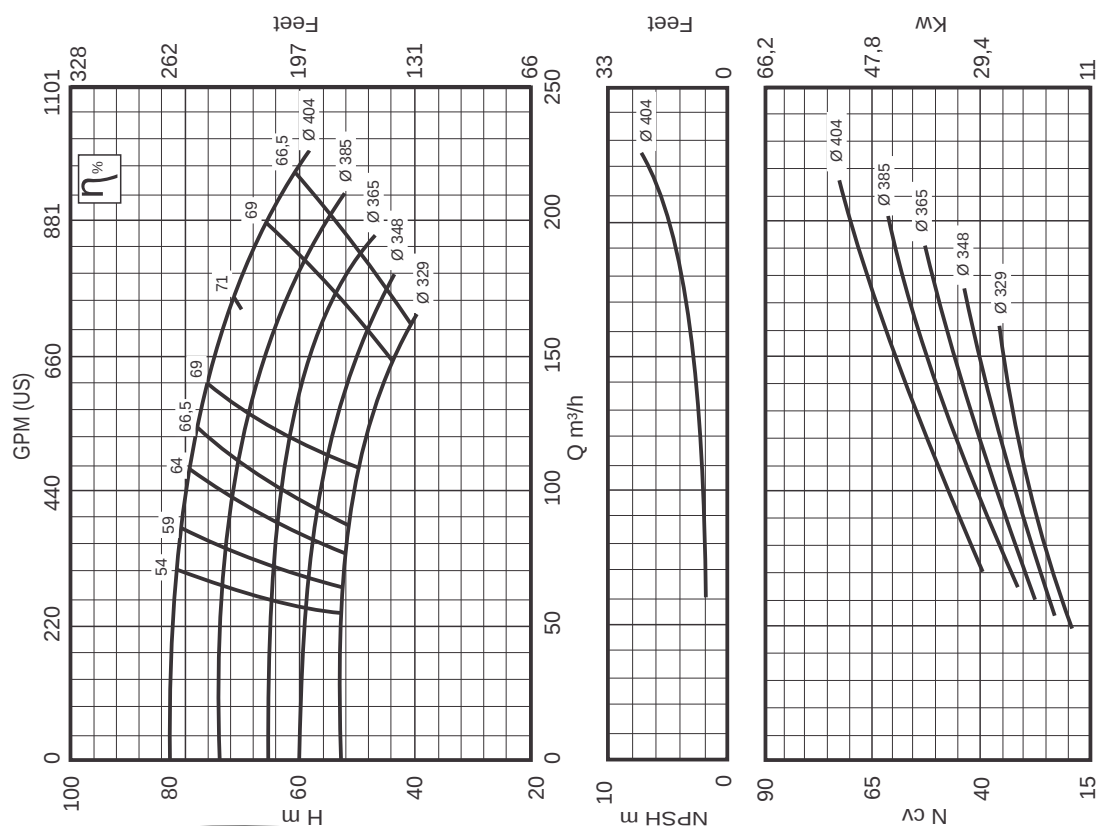


Suction Flange 125 mm  
Pressure Flange 80 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 185 mm  
Impeller Ø Min. 178/154 mm  
Impeller of Width 36 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 1750 rpm

## INI 80-400



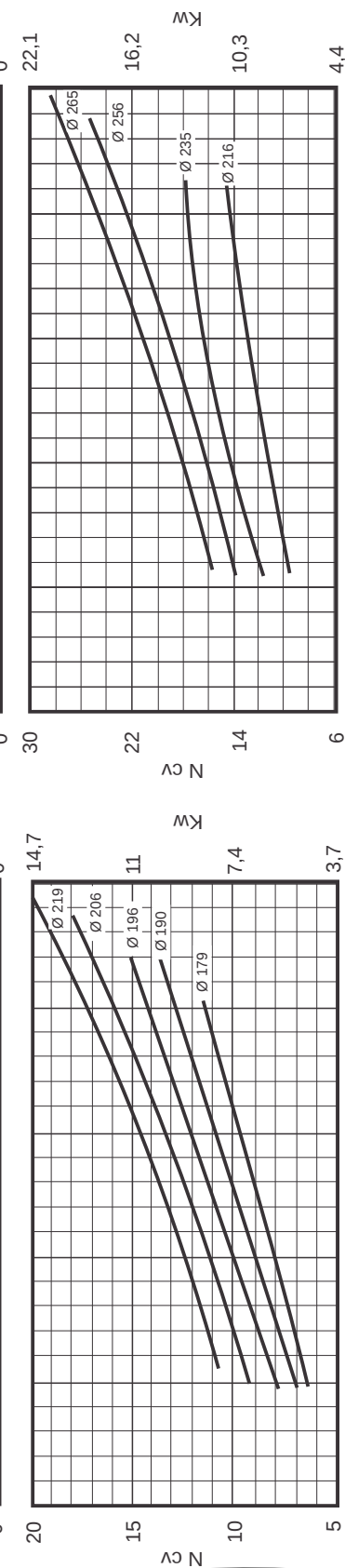
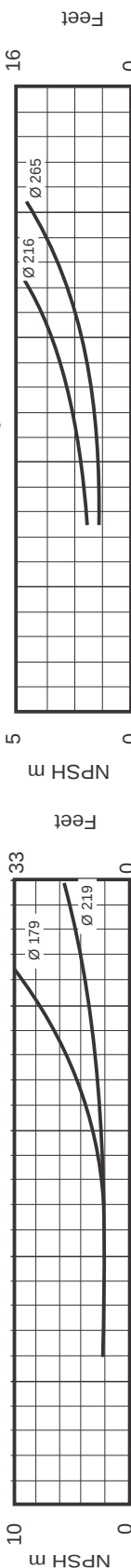
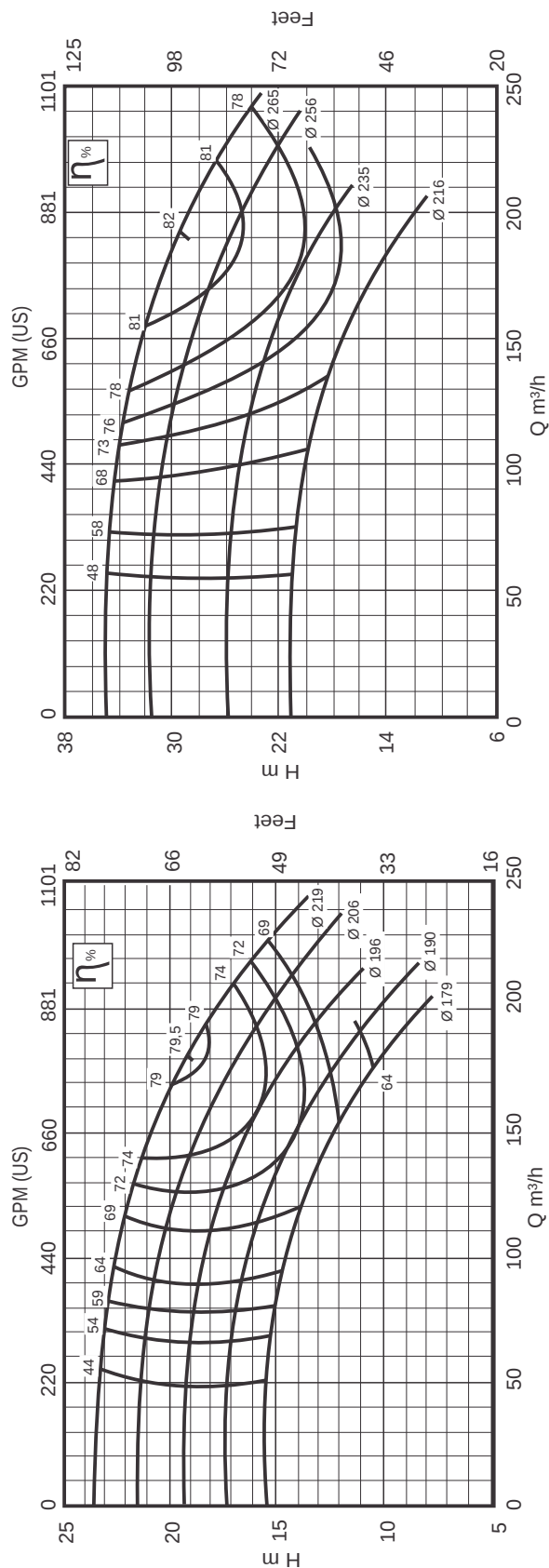
Suction Flange 125 mm  
Pressure Flange 80 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 404 mm  
Impeller Ø Min. 329 mm  
Impeller of Width 13 mm  
Viscosity  $\mu = 1 \text{ cP}$



## INI 100-250

## 1750 rpm

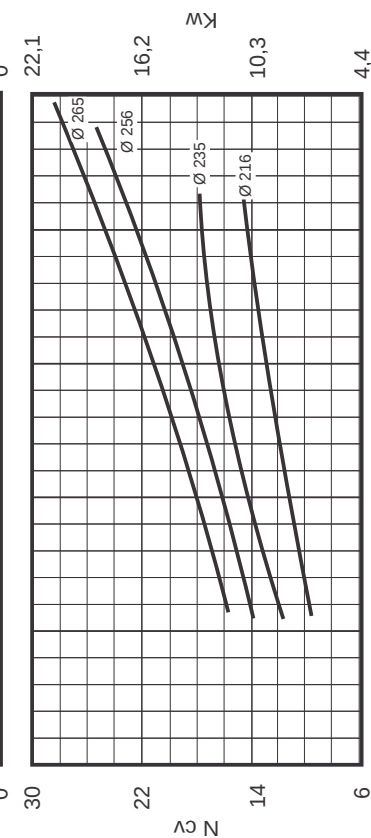
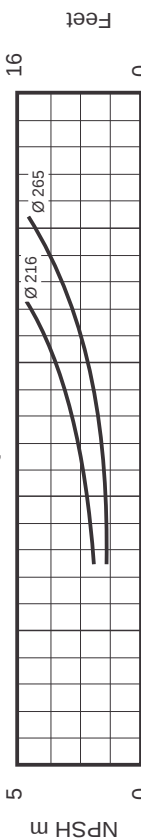
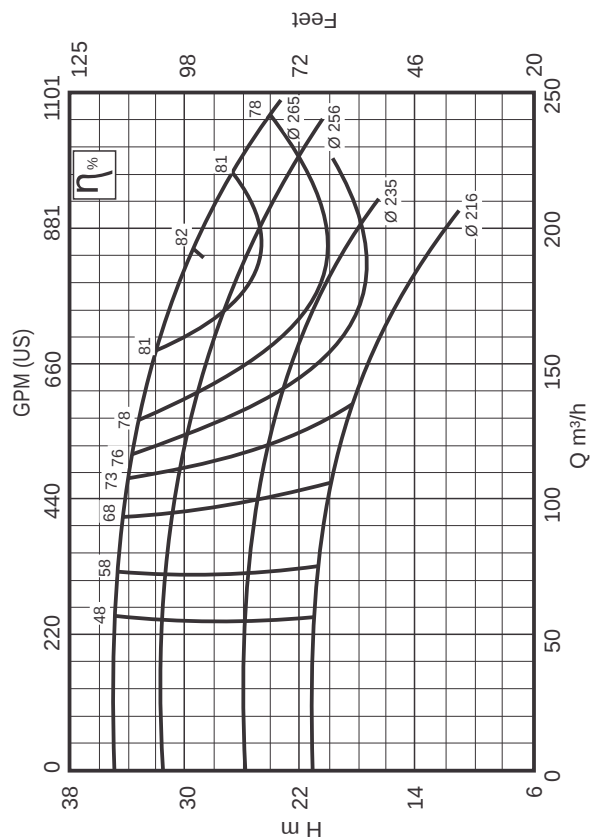


Impeller Ø Max. 219 mm  
Impeller Ø Min. 179 mm  
Impeller of Width 32 mm  
Viscosity  $\mu = 1\text{cP}$

Suction Flange 125 mm  
Pressure Flange 100 mm  
Specific Weight  $\gamma = 1\text{kgf/dm}^3$

## INI 100-250

## 1750 rpm

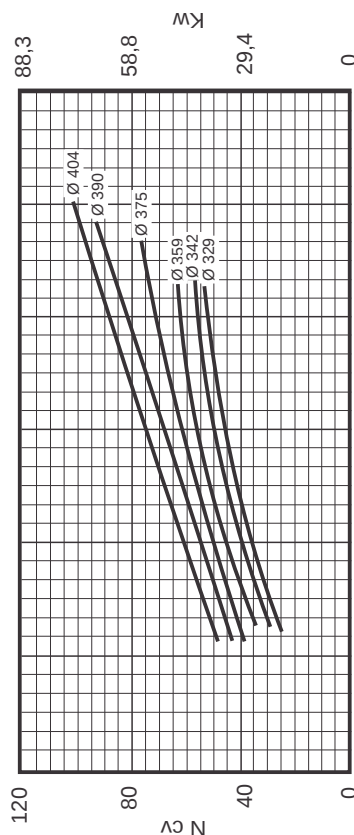
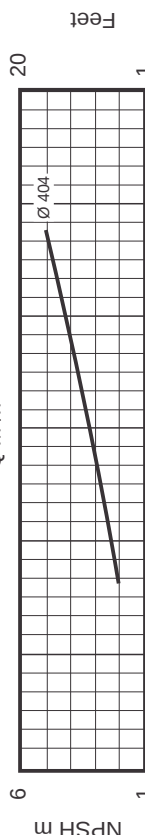
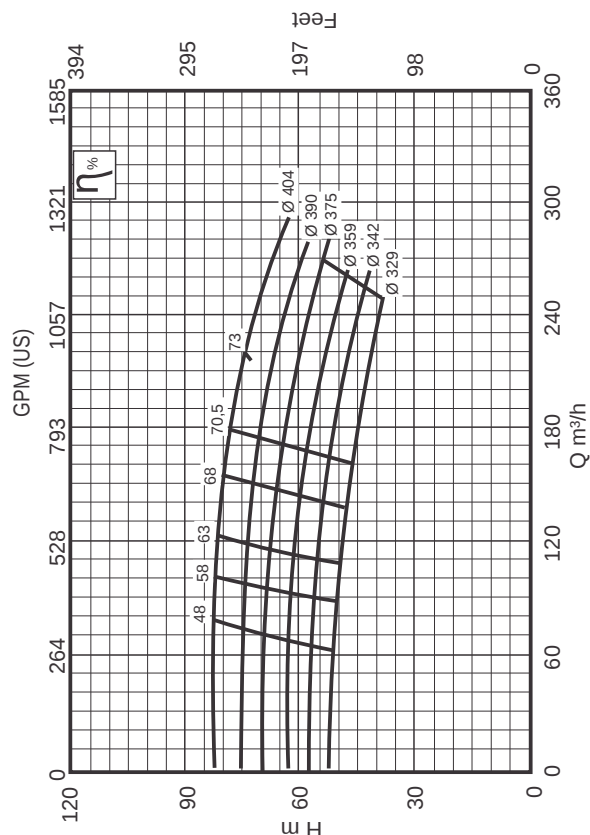


Impeller Ø Max. 265 mm  
Impeller Ø Min. 216 mm  
Impeller of Width 27 mm  
Viscosity  $\mu = 1\text{cP}$

Suction Flange 125 mm  
Pressure Flange 100 mm  
Specific Weight  $\gamma = 1\text{kgf/dm}^3$

## 1750 rpm

## INI 100-400

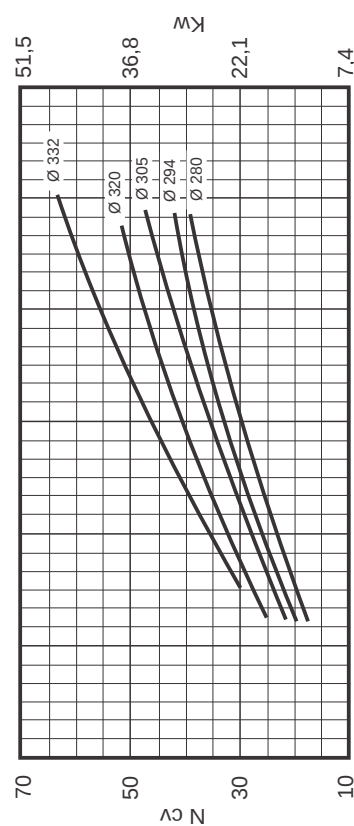
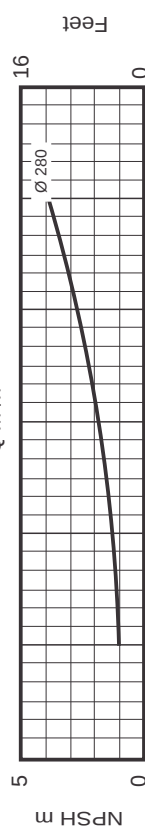
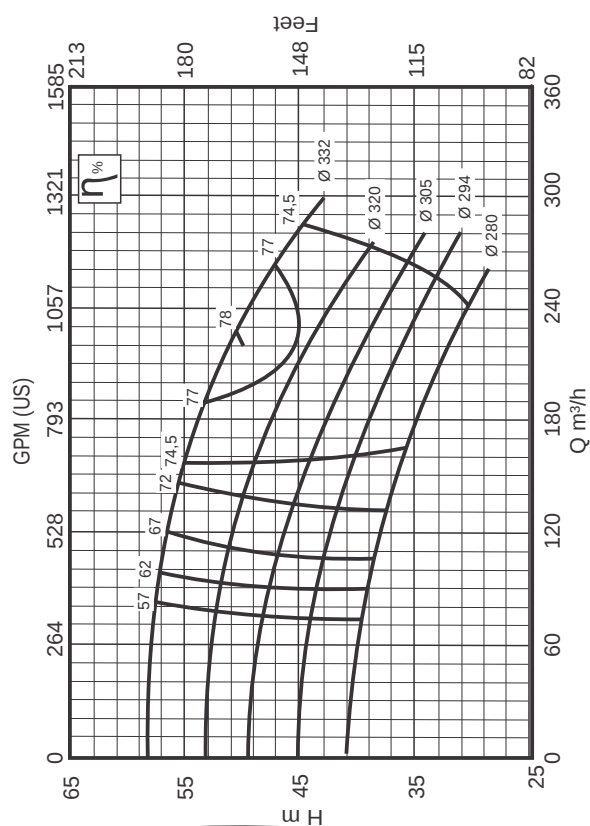


Suction Flange 125 mm  
Pressure Flange 100 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 404 mm  
Impeller Ø Min. 329 mm  
Impeller of Width 17 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 1750 rpm

## INI 100-315



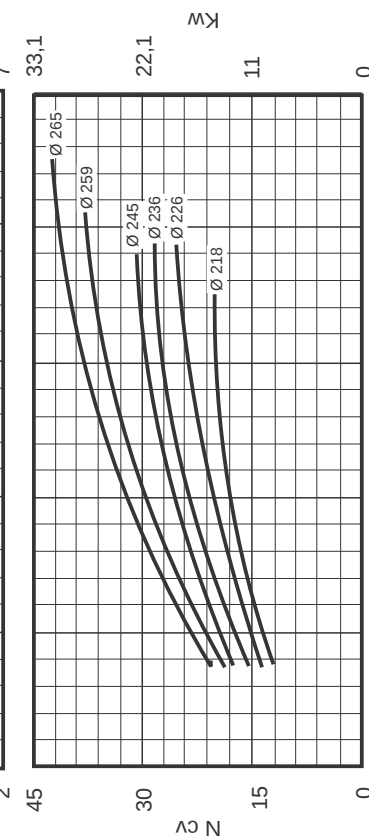
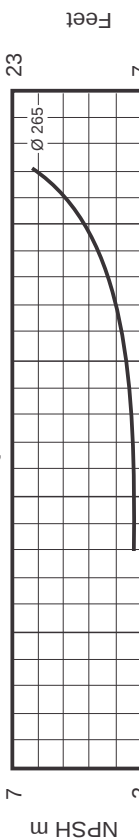
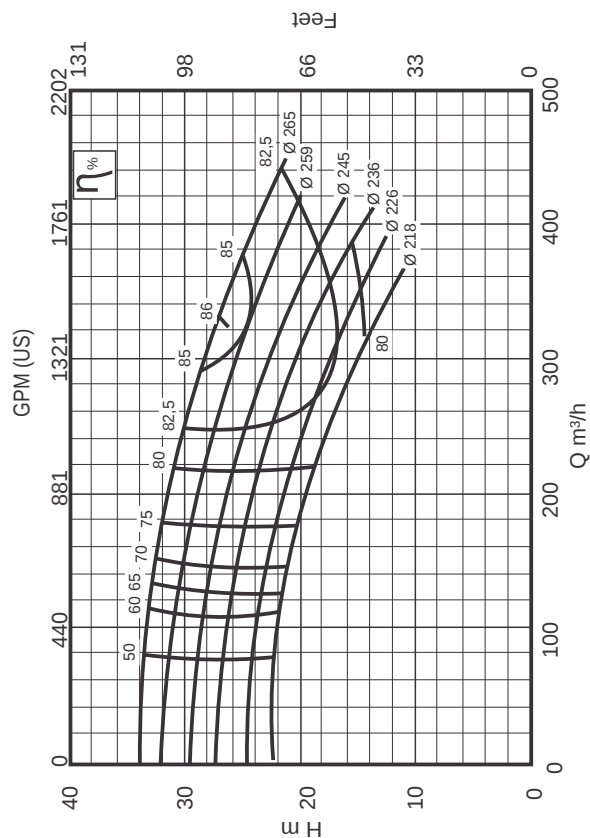
Suction Flange 125 mm  
Pressure Flange 100 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 332 mm  
Impeller Ø Min. 280 mm  
Impeller of Width 23 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 1750 rpm

### INI 125-250

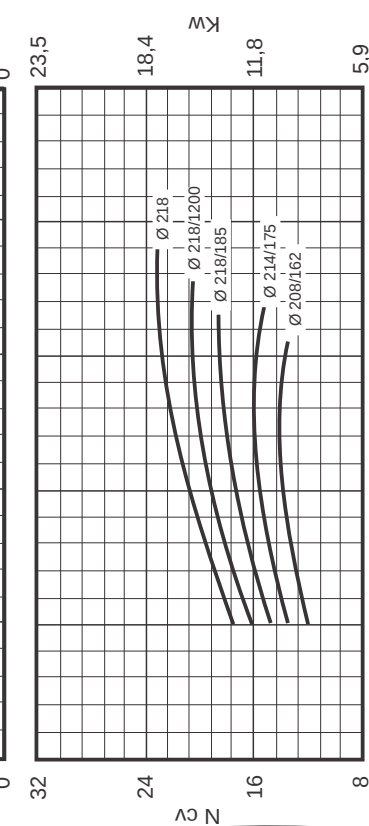
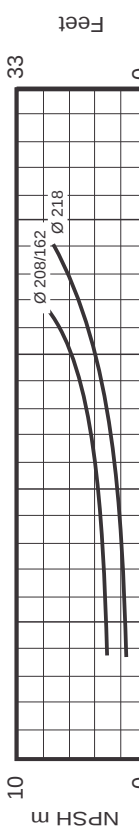
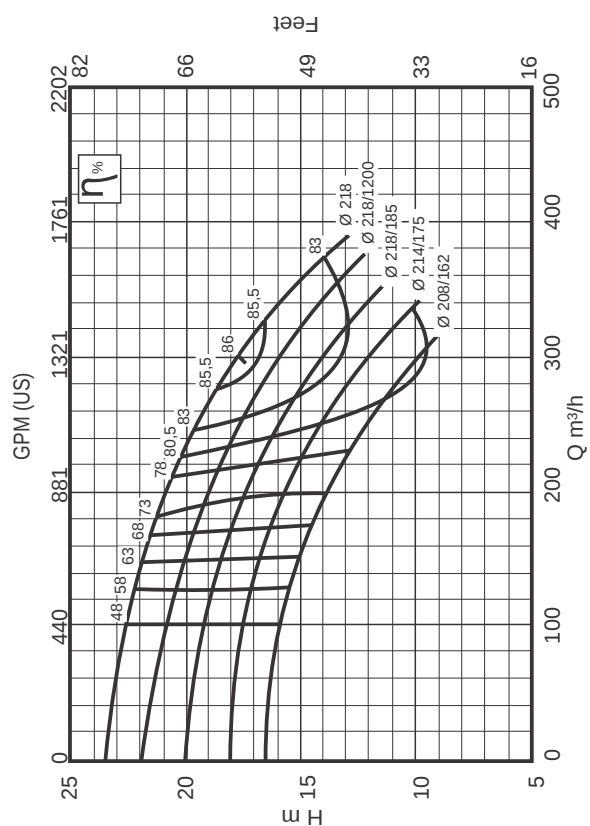


Impeller Ø Max. 265 mm  
Impeller Ø Min. 218 mm  
Impeller of Width 37 mm  
Viscosity  $\mu = 1\text{cP}$

Suction Flange 150 mm  
Pressure Flange 125 mm  
Specific Weight  $\gamma = 1\text{kgf/dm}^3$

## 1750 rpm

### INI 125-200



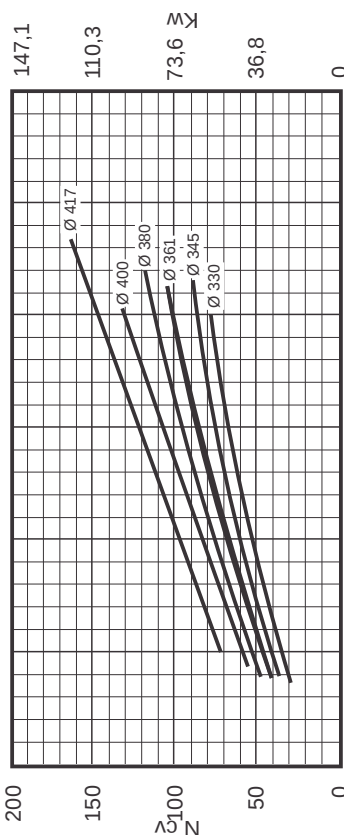
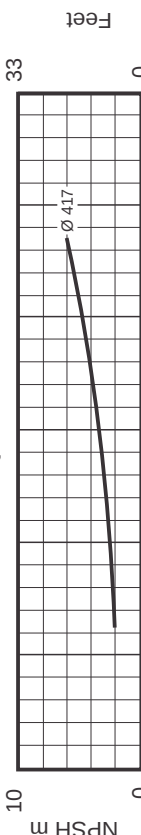
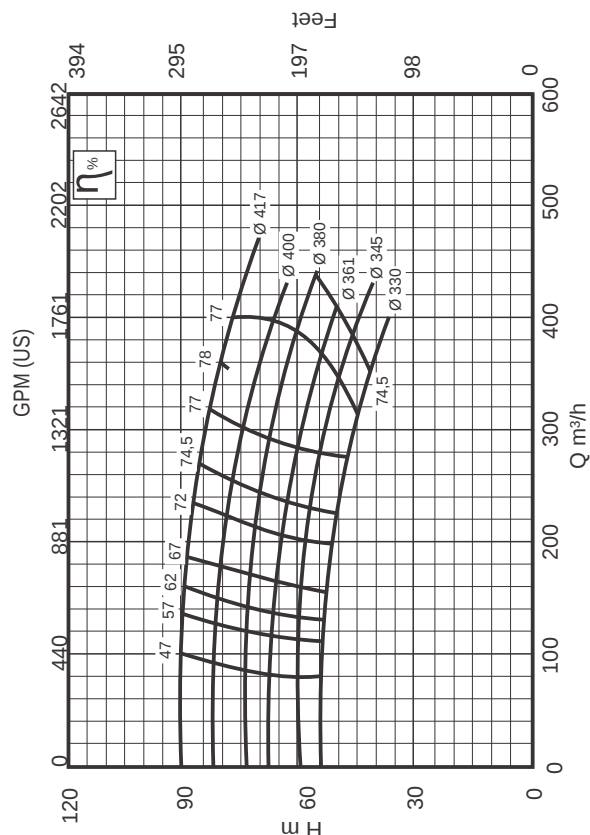
Impeller Ø Max. 218 mm  
Impeller Ø Min. 208/162 mm  
Impeller of Width 40 mm  
Viscosity  $\mu = 1\text{cP}$

Suction Flange 150 mm  
Pressure Flange 120 mm  
Specific Weight  $\gamma = 1\text{kgf/dm}^3$



## 1750 rpm

### INI 125 -400

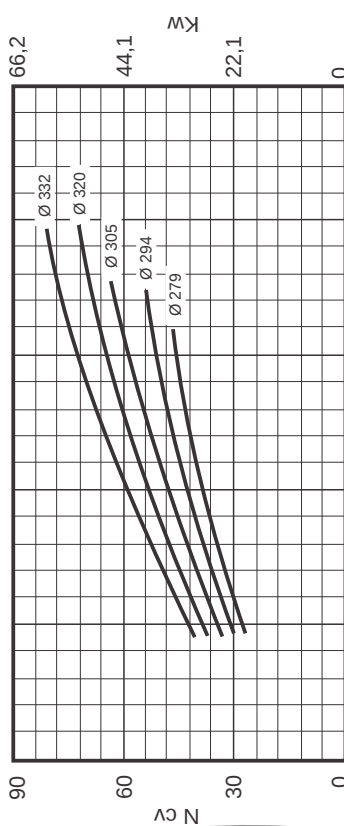
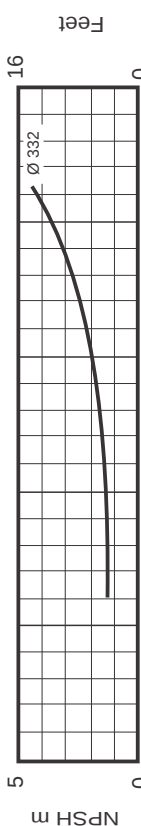
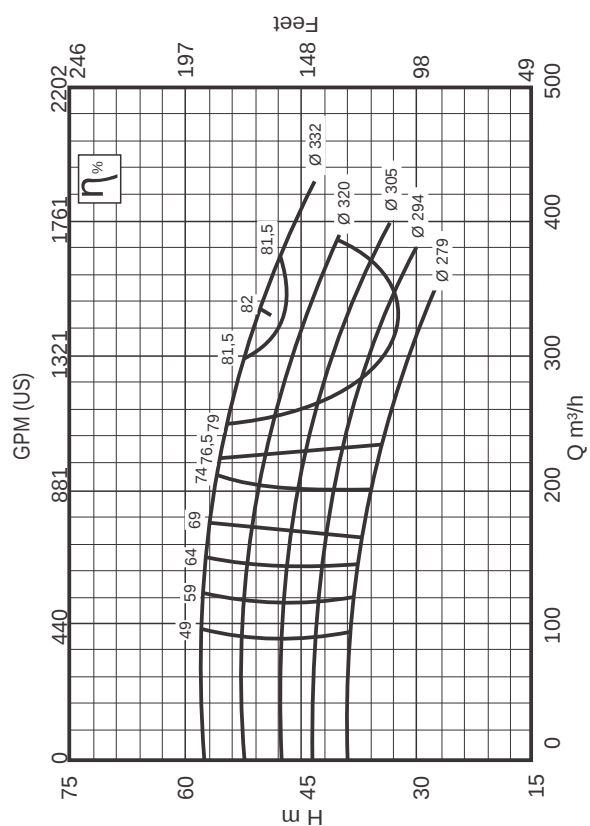


Suction Flange 150 mm  
Pressure Flange 125 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 417 mm  
Impeller Ø Min. 330 mm  
Impeller of Width 25 mm  
Viscosity  $\mu = 1 \text{ cP}$

## 1750 rpm

### INI 125-315



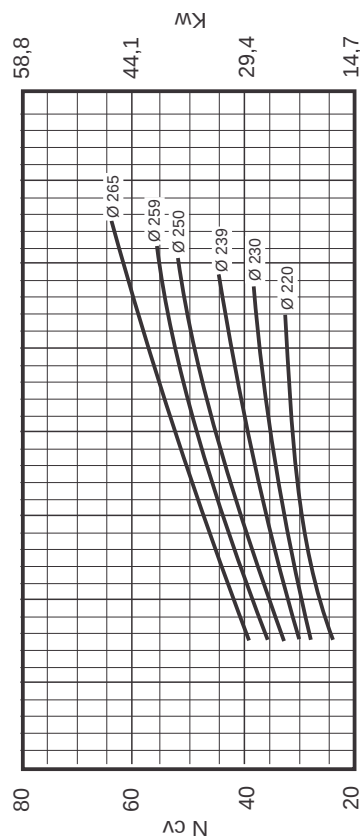
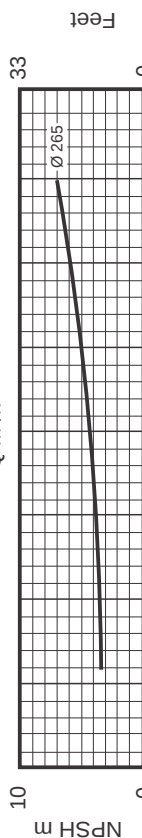
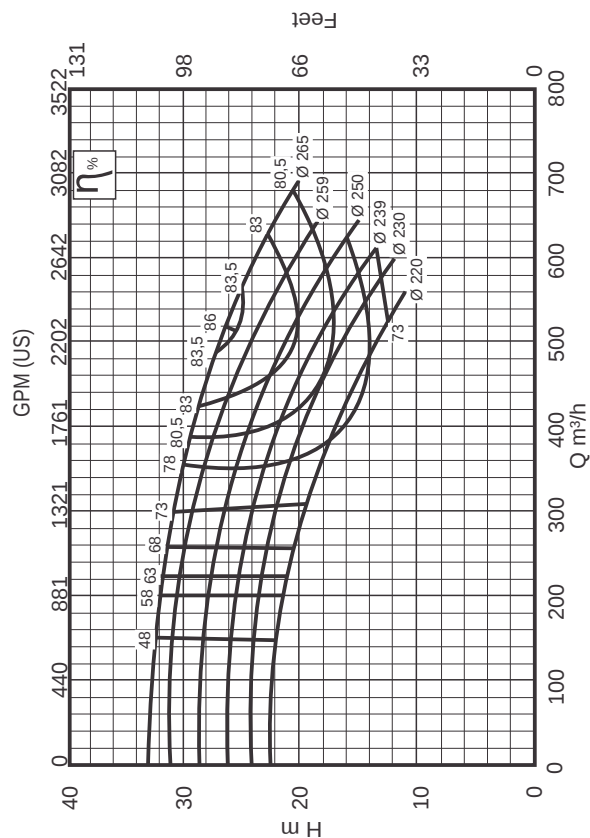
Suction Flange 150 mm  
Pressure Flange 125 mm  
Specific Weight  $\gamma = 1 \text{ kgf/dm}^3$

Impeller Ø Max. 315 mm  
Impeller Ø Min. 218/153 mm  
Impeller of Width 59 mm  
Viscosity  $\mu = 1 \text{ cP}$



## 1750 rpm

## INI 150-250

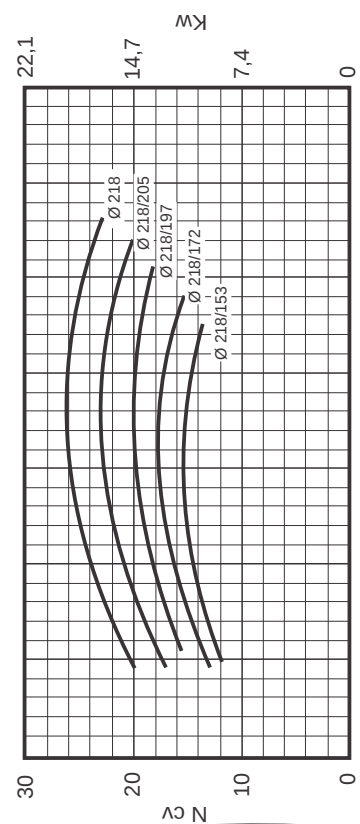
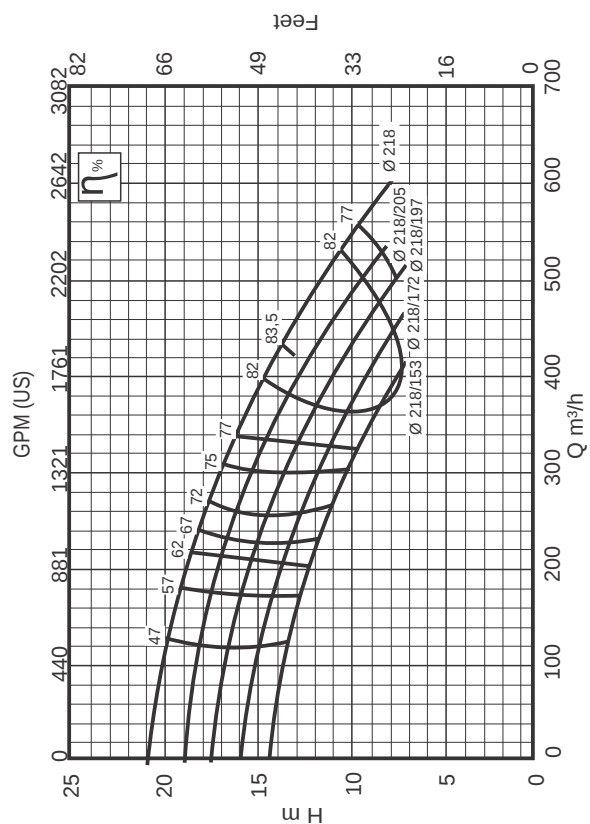


Impeller Ø Max. 265 mm  
Impeller Ø Min. 220 mm  
Impeller of Width 12 mm  
Viscosity  $\mu = 1\text{cP}$

Suction Flange 200 mm  
Pressure Flange 150 mm  
Specific Weight  $\gamma = 1\text{kgf/dm}^3$

## 1750 rpm

## INI 150-200



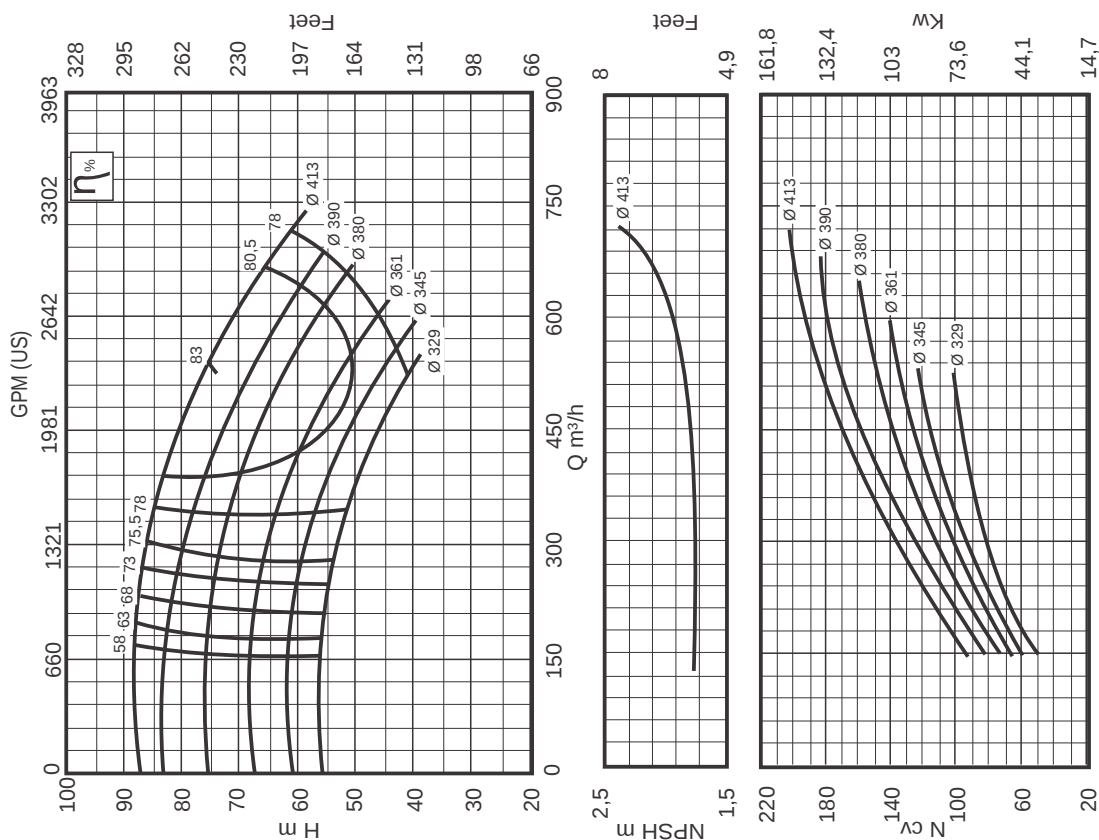
Impeller Ø Max. 218 mm  
Impeller Ø Min. 153 mm  
Impeller of Width 59 mm  
Viscosity  $\mu = 1\text{cP}$

Suction Flange 200 mm  
Pressure Flange 150 mm  
Specific Weight  $\gamma = 1\text{kgf/dm}^3$



## INI 150-400

## 1750 rpm

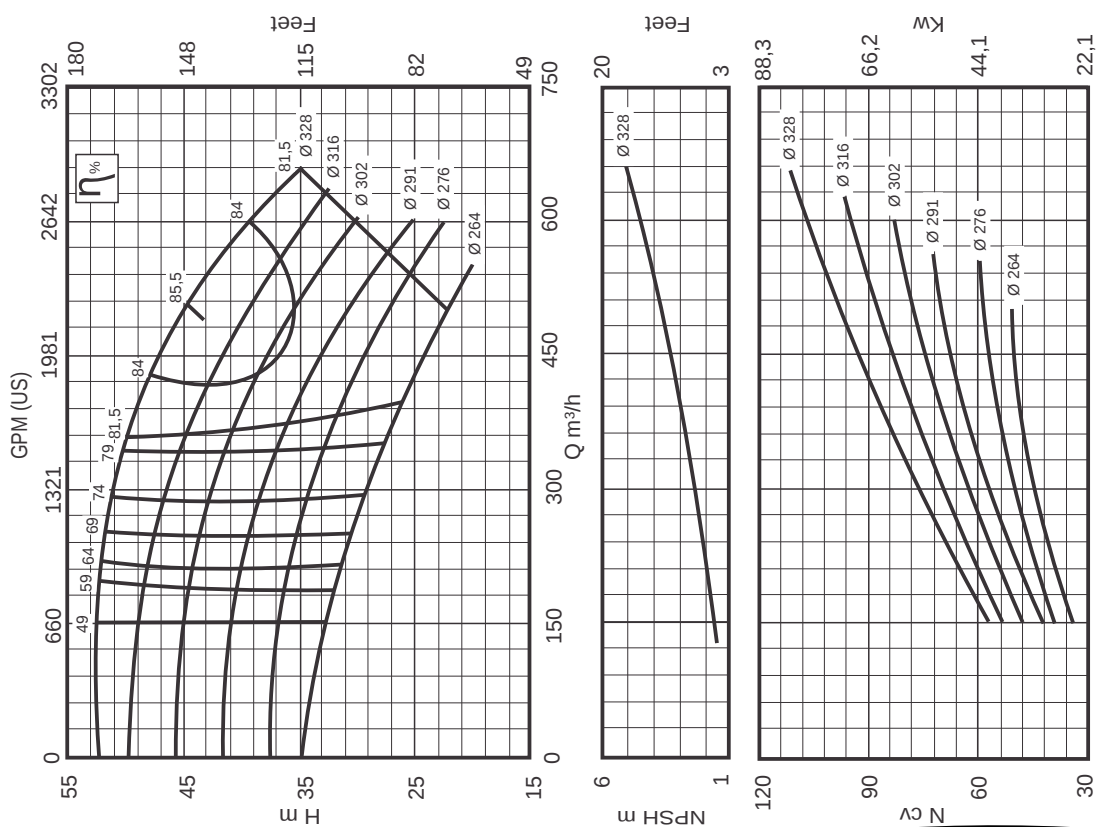


Impeller Ø Max. 413 mm  
Impeller Ø Min. 329 mm  
Impeller of Width 33 mm  
Viscosity  $\mu = 1\text{cP}$

Suction Flange 200 mm  
Pressure Flange 150 mm  
Specific Weight  $\gamma = 1\text{kgf/dm}^3$

## INI 150-315

## 1750 rpm



Impeller Ø Max. 328 mm  
Impeller Ø Min. 264 mm  
Impeller of Width 39 mm  
Viscosity  $\mu = 1\text{cP}$

Suction Flange 200 mm  
Pressure Flange 150 mm  
Specific Weight  $\gamma = 1\text{kgf/dm}^3$



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