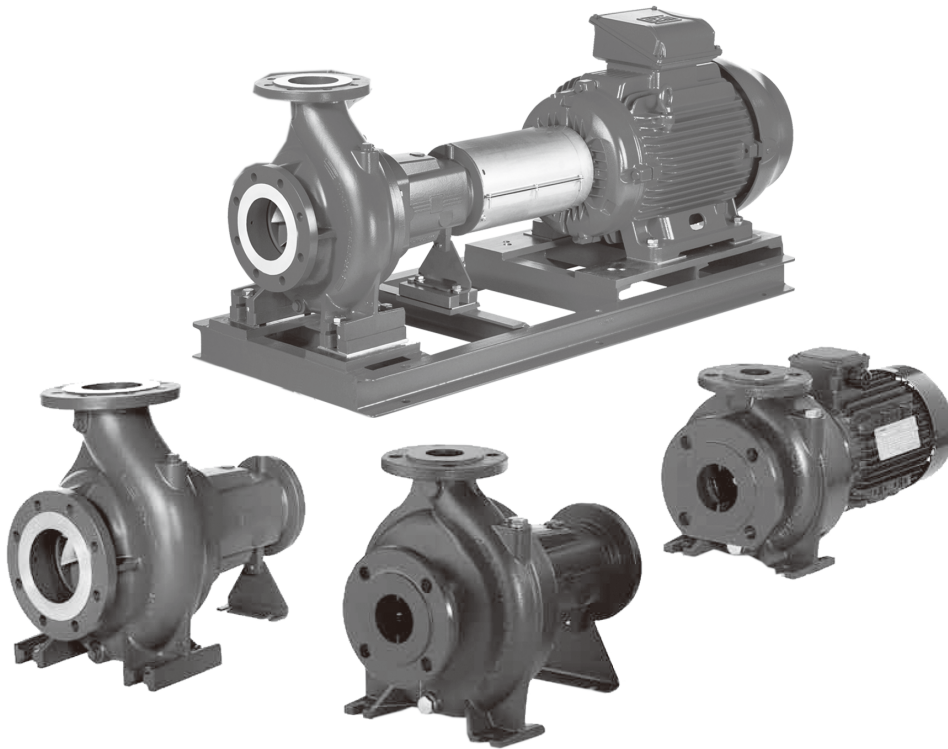




e1610/e1631

Technical Manuals

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e1610 & e1631 Series general introduction

The new e1610 series is the result of the close collaboration between our customers and us; the new Range has been redesigned and improved to meet the Commercial Building Services (CBS) requirements, in Term of performances and energy saving.

In addition the new e1610 series can be customized to meet the needs of the Industry segment, keeping the quality in the production and the continuous reliability and robustness in the operation.

1. Pump design

The new e-1610 series is a centrifugal end-suction electric-pump with single-stage, axial flanged suction port, Radial flanged discharge and horizontal shaft. The e1610 pumps have cast iron casing and stainless steel Impeller or bronze impeller as standard but are also available in a wide range of materials, from bronze to Duplex stainless steel, to allow for various pumping needs.

The pumps are equipped with elastomer bellows mechanical seal, IE3 or IE2 efficiency motors, and are Designed with a back pull-out configuration (impeller, adapter, and motor can be extracted without Disconnecting the pump body from the piping system)
CJ Series flexible coupling from Martin brand is standard options for e1610 series Pump.

This series pumps are available in the following constructions:

- **e1631 end suction pump**
Stub shaft construction
Rigid-coupled with a bracket, an adaptor and a rigid coupling keyed to the standard motor shaft extension.◦



- **e1610 end suction pump**
Frame mounted construction
Flexible-coupled with bracket, support, flexing coupling, aligning and anchoring base.◦



2. Hydraulic specifications

Maximum delivery: Up to 640 m3/h for 2 poles range
Up to 1900 m3/h for 4 poles range

Maximum head: Up to 160 m for 2 poles range
Up to 100 m for 4 poles range.

Hydraulic performance compliant with ISO 9906 -2012 (Grade 3B)

Fluid temperature range:

- Standard version (with mechanical seal BQ1EGG and EPDM gasket) -25 to +120 °C
 - Versions on request (depending on mechanical seal and gasket) -20 or -25 to +120 °C
- Special configuration pump operating temperature up to +140 °C

Maximum operating pressure:

Pump equipped with elastomer bellows mechanical seal

- o Version with mechanical seal BQ1EGG and cast iron or stainless steel or cast ductile Iron casing 16 bar @ 90 °C and 13.5 bar @ 120 °C.
- o Version with mechanical seal BQ1VGG and cast iron or stainless steel or cast ductile iron casing 16 bar @ 90 °C and 13.5 bar @ 120 °C;
- o Version with mechanical seal Q1Q1EGG and cast iron or stainless steel or cast ductile iron casing 16 bar @ 120° C.
- o Version with mechanical seal Q1Q1VGG and cast iron or stainless steel or cast ductile iron casing 16 bar @ 120° C.

Above mentioned the maximum operating pressure is suitable for clean water or similar to the medium of Water

More information, see the back chapter on mechanical seal and the pump operating pressure range

Connection dimensions according to EN 733 for below models:

1.25AS/A/B、1.5AS/A/B/C、2AS/A/B/C、2.5AS/A/B/C/D、
3.25A/B/C/D、4B/C/D/E、5C/D/E、6D/E

3. Motor specifications:

Squirrel cage in short circuit enclosed construction with external ventilation (TEFC).

2-pole and 4-pole ranges.

IP55 protection degree as motor

Performance according to EN 60034-1

IE3 efficiency level (three-phase 0.75 to 375 kW)

155 (F) insulation class

Standard voltage:

3X380V 50Hz

Other voltage on request

Maximum ambient temperature: 40 °C.

e1610 & e1631 Applications & Benefits

1. For commercial building services (CBS) Applications

The e 1610 & e 1631 series is suitable for many different applications demanding reliable and efficient

Products that require constant or variable duty points in cost saving operation

The e 1610 & e 1631 Series can be used for the following CBS applications:

•HVAC

- Liquid transfer in heating systems
- Liquid transfer in air-conditioning systems
- Liquid transfer in ventilation systems

•Water Supply

- Pressure boosting in commercial buildings.
- Irrigation systems
- Water transfer for green houses.

•Fire Fighting

Benefits

The e1610 & e1631 series permit to achieve the following benefits:

•Performances: e 1610 & e 1631 pumps are ErP 2015 compliant, equipped with IE3 motors and

With the right hydraulic coverage for CBS applications the standard version with

PN16, 120 °C maximum fluid temperature and EPDM elastomer is exactly what

The CBS Market needs.

•Reliability: The high quality in production, the robust construction and operation, the easily

Interchangeable mechanical seals, and wear rings guarantee a continuous operation

Without faults and a shorter down time for maintenance.

- Versatility:** Beside the standard offer, the e1610 和 e1631 series is available in many different Material configurations for casing, impeller, and elastomers as well as different Construction methods to address a wide range of applications
- Total cost ownership:** the best hydraulic and electric efficiency, the HYDROVAR-equipped Versions, the easy and quick maintenance, permit to reduce the operation and Maintenance cost and to save energy when the pump is working.
- Pre-Post sales support:** we are continuously working close to our customers to help them in Selecting the right pump for the specific application an improved user-friendly selection Software improved with many selection tools is available on the website. Experienced Engineers are fully dedicated to big projects for Municipality.

Features

- Discharge ports DN32 to DN300
- Wide performance range up to 160 m head and 1900 m3/h flow.。
- Nominal pressure of 16 bar。
- Wide range of temperatures for pumped liquids: -25°C to +120°C 。
- Wide range of materials for many different kinds of pumped liquid.。
- Wide range of voltages.。
- High performance IE3 motors.。
- Variable speed by optional HYDROVAR/TECH5000 drive.

2. For Industry Applications

The e 1610 & e 1631 series and the different available configurations and standard options have been Designed to cover a wide range of applications in the Industry segment the e-NSC series can be installed In machines where compactness and high performances are a must or within industrial processes where the User looks for a robust and reliable design for the handling of many different liquids.

The e 1610 & e1631 series can be used for the following Industry applications:

- Process**
 - Process cooling
 - Process heating

- Heat recovery

•**Water Supply**

- Water boosting
- Water treatment
- Washing and cleaning

Benefits

The e1610 & e1631 Series permit to achieve the following benefits:

- Efficiency:** new designed high efficiency hydraulics, IE3 motors, and the option with variable speed By the HYDROVAR drive sets the basis for very low operation costs.
- Reliability:** various mechanical seal materials and options are available to meet the exact needs of Your specific application the e-NSC is also designed for easy maintenance and all Service points are easily reachable to reduce downtime.
- Know How:** the perfect configuration for an application can be made with the selection tool or with The support of our industrial experienced employees
- A global platform:** the e1610 & e1631series are assembled in different factories across the world To make the e-1610 always "closer" to our customer beyond our commitment to Reduce the carbon footprint of e-NSC, this global platform secures the availability of The same design with the same quality processes everywhere

Features

- Discharge ports DN32 to DN300
- Wide performance range up to 160 m head and 1900 m3/h flow
- Nominal pressure of 16 bar
- Wide range of temperatures for pumped liquids: -25°C to +120°C
- Wide range of materials for many different kinds of pumped liquid
- Wide range of voltages
- High performance IE3 motors
- Variable speed by optional HYDROVAR/TECH5000 drive

e1610 & e 1631 list of Models at 50HZ, 2 Poles

Size	KW	e1631	e1610	Size	KW	e1631	e1610
1.25AS 1.1KW 2P	1.1	▪	▪	2C 15KW 2P	15	▪	▪
1.25AS 1.5KW 2P	1.5	▪	▪	2C 18.5KW 2P	18.5	▪	▪
1.25AS 2.2KW 2P	2.2	▪	▪	2C 22KW 2P	22	▪	▪
1.25AS 3KW 2P	3	▪	▪	2C 30KW 2P	30	▪	▪
1.25A 2.2KW 2P	2.2	▪	▪	2D 37KW 2P	37	▪	▪
1.25A 3KW 2P	3	▪	▪	2D 45KW 2P	45	▪	▪
1.25A 4KW 2P	4	▪	▪	2D 55KW 2P	55	▪	▪
1.25A 5.5KW 2P	5.5	▪	▪	2D 75KW 2P	75	▪	▪
1.25B 3KW 2P	3	▪	▪	2.5AS 4KW 2P	4	▪	▪
1.25B 4KW 2P	4	▪	▪	2.5AS 5.5KW 2P	5.5	▪	▪
1.25B 5.5KW 2P	5.5	▪	▪	2.5AS 7.5KW 2P	7.5	▪	▪
1.25B 7.5KW 2P	7.5	▪	▪	2.5AS 11KWA 2P	11	▪	▪
1.25C 7.5KW 2P	7.5	▪	▪	2.5AS 11KW 2P	11	▪	▪
1.25C 11KWA 2P	11	▪	▪	2.5A 7.5KW 2P	7.5	▪	▪
1.25C 11KW 2P	11	▪	▪	2.5A 11KWA 2P	11	▪	▪
1.25C 15KW 2P	15	▪	▪	2.5A 11KW 2P	11	▪	▪
1.5AS 1.5KW 2P	1.5	▪	▪	2.5A 15KW 2P	15	▪	▪
1.5AS 2.2KW 2P	2.2	▪	▪	2.5A 18.5KW 2P	18.5	▪	▪
1.5AS 3KW 2P	3	▪	▪	2.5B 11KW 2P	11	▪	▪
1.5AS 4KW 2P	4	▪	▪	2.5B 15KW 2P	15	▪	▪
1.5A 3KW 2P	3	▪	▪	2.5B 18.5KW 2P	18.5	▪	▪
1.5A 4KW 2P	4	▪	▪	2.5B 22KW 2P	22	▪	▪
1.5A 5.5KW 2P	5.5	▪	▪	2.5B 30KW 2P	30	▪	▪
1.5A 7.5KW 2P	7.5	▪	▪	2.5C 22KW 2P	22	▪	▪
1.5B 5.5KW 2P	5.5	▪	▪	2.5C 30KW 2P	30	▪	▪
1.5B 7.5KW 2P	7.5	▪	▪	2.5C 37KW 2P	37	▪	▪
1.5B 11KWA 2P	11	▪	▪	2.5C 45KW 2P	45	▪	▪
1.5B 11KW 2P	11	▪	▪	2.5C 55KW 2P	55	▪	▪
1.5C 11KWA 2P	11	▪	▪	2.5D 55KW 2P	55	▪	▪
1.5C 11KW 2P	11	▪	▪	2.5D 75KW 2P	75	▪	▪
1.5C 15KW 2P	15	▪	▪	2.5D 90KW 2P	90	▪	▪
1.5C 18.5KW 2P	18.5	▪	▪	3.25A 11KW 2P	11	▪	▪
1.5C 22KW 2P	22	▪	▪	3.25A 15KW 2P	15	▪	▪
2AS 3KW 2P	3	▪	▪	3.25A 18.5KW 2P	18.5	▪	▪
2AS 4KW 2P	4	▪	▪	3.25A 22KW 2P	22	▪	▪
2AS 5.5KW 2P	5.5	▪	▪	3.25B 22KW 2P	22	▪	▪
2AS 7.5KW 2P	7.5	▪	▪	3.25B 30KW 2P	30	▪	▪
2A 5.5KW 2P	5.5	▪	▪	3.25B 37KW 2P	37	▪	▪
2A 7.5KW 2P	7.5	▪	▪	3.25B 45KW 2P	45	▪	▪
2A 11KWA 2P	11	▪	▪	3.25C 37KW 2P	37	▪	▪
2A 11KW 2P	11	▪	▪	3.25C 45KW 2P	45	▪	▪
2B 11KWA 2P	11	▪	▪	3.25C 55KW 2P	55	▪	▪
2B 11KW 2P	11	▪	▪	3.25C 75KW 2P	75	▪	▪
2B 15KW 2P	15	▪	▪	3.25DT 90KW 2P	90	N/A	▪
2B 18.5KW 2P	18.5	▪	▪	3.25DT 110KW 2P	110	N/A	▪
				3.25DT 132KW 2P	132	N/A	▪
				3.25DT 160KW 2P	160	N/A	▪

Note: ▪ = Available

N/A=Not Application

e1610 & e 1631 list of Models at 50HZ, 2 Poles

Size	KW	e1631	e1610
4A 15KW 2P	15	▪	▪
4A 18.5KW 2P	18.5	▪	▪
4A 22KW 2P	22	▪	▪
4A 30KW 2P	30	▪	▪
4B 30KW 2P	30	▪	▪
4B 37KW 2P	37	▪	▪
4B 45KW 2P	45	▪	▪
4B 55KW 2P	55	▪	▪
4C 45KW 2P	45	N/A	▪
4C 55KW 2P	55	N/A	▪
4C 75KW 2P	75	▪	▪
4C 90KW 2P	90	▪	▪
4DT 110KW 2P	110	N/A	▪
4DT 132KW 2P	132	N/A	▪
4DT 160KW 2P	160	N/A	▪
5B 45KW 2P	45	▪	▪
5B 55KW 2P	55	▪	▪
5B 75KW 2P	75	▪	▪
5B 90KW 2P	90	▪	▪
5D 110KW 2P	110	N/A	▪
5D 132KW 2P	132	N/A	▪
5D 160KW 2P	160	N/A	▪
5D 200KW 2P	200	N/A	▪

Note: ▪ = Available

N/A=Not Application

e1610 & e1631 list of Models at 50HZ, 4 Poles

Size	KW	e1631	e1610	Size	KW	e1631	e1610
1.25AS 0.25KWB 4P (*)	0.25	N/A	▪	2.5B 1.5KW 4P	1.5	▪	▪
1.25AS 0.25KWA 4P (*)	0.25	N/A	▪	2.5B 2.2KWA 4P	2.2	▪	▪
1.25AS 0.25KW 4P (*)	0.25	N/A	▪	2.5B 2.2KW 4P	2.2	▪	▪
1.25AS 0.37KW 4P (*)	0.37	N/A	▪	2.5B 3KW 4P	3	▪	▪
1.25A 0.25KW 4P (*)	0.25	N/A	▪	2.5B 4KW 4P	4	▪	▪
1.25A 0.37KW 4P (*)	0.37	N/A	▪	2.5C 3KW 4P	3	▪	▪
1.25A 0.55KWA 4P	0.55	▪	▪	2.5C 4KW 4P	4	▪	▪
1.25A 0.55KW 4P	0.55	▪	▪	2.5C 5.5KWA 4P	5.5	▪	▪
1.25B 0.55KWA 4P	0.55	▪	▪	2.5C 5.5KW 4P	5.5	▪	▪
1.25B 0.55KW 4P	0.55	▪	▪	2.5C 7.5KW 4P	7.5	▪	▪
1.25B 0.75KW 4P	0.75	▪	▪	2.5D 5.5KW 4P	5.5	▪	▪
1.25B 1.1KW 4P	1.1	▪	▪	2.5D 7.5KW 4P	7.5	▪	▪
1.25C 1.1KWA 4P	1.1	▪	▪	2.5D 11KW 4P	11	▪	▪
1.25C 1.1KW 4P	1.1	▪	▪	2.5D 15KW 4P	15	▪	▪
1.25C 1.5KW 4P	1.5	▪	▪	3.25A 1.5KW 4P	1.5	▪	▪
1.25C 2.2KW 4P	2.2	▪	▪	3.25A 2.2KWA 4P	2.2	▪	▪
1.5AS 0.25KWA 4P (*)	0.25	N/A	▪	3.25A 2.2KW 4P	2.2	▪	▪
1.5AS 0.25KW 4P (*)	0.25	N/A		3.25A 3KW 4P	3	▪	▪
1.5AS 0.37KW 4P (*)	0.37	N/A	▪	3.25B 3KW 4P	3	▪	▪
1.5AS 0.55KW 4P	0.55	▪	▪	3.25B 4KW 4P	4	▪	▪
1.5A 0.37KW 4P (*)	0.37	N/A	▪	3.25B 5.5KWA 4P	5.5	▪	▪
1.5A 0.55KW 4P	0.55	▪	▪	3.25B 5.5KW 4P	5.5	▪	▪
1.5A 0.75KW 4P	0.75	▪	▪	3.25C 5.5KWA 4P	5.5	▪	▪
1.5A 1.1KW 4P	1.1	▪	▪	3.25C 5.5KW 4P	5.5	▪	▪
1.5B 0.75KW 4P	0.75	▪	▪	3.25C 7.5KW 4P	7.5	▪	▪
1.5B 1.1KW 4P	1.1	▪	▪	3.25D 11KWA 4P	11	▪	▪
1.5B 1.5KWA 4P	1.5	▪	▪	3.25D 11KW 4P	11	▪	▪
1.5B 1.5KW 4P	1.5	▪	▪	3.25D 15KW 4P	15	▪	▪
1.5C 1.1KW 4P	1.1	▪	▪	3.25D 18.5KW 4P	18.5	▪	▪
1.5C 1.5KW 4P	1.5	▪	▪	3.25D 22KW 4P	22	▪	▪
1.5C 2.2KWA 4P	2.2	▪	▪				
1.5C 2.2KW 4P	2.2	▪	▪	3.25E 18.5KW 4P	18.5	▪	▪
1.5C 3KW 4P	3	▪	▪	3.25E 22KW 4P	22	▪	▪
2AS 0.37KW 4P	0.37	N/A	▪	3.25E 30KW 4P	30	▪	▪
2AS 0.55KW 4P	0.55	▪	▪	3.25E 37KW 4P	37	▪	▪
2AS 0.75KW 4P	0.75	▪	▪	4A 2.2KWA 4P	2.2	▪	▪
2AS 1.1KW 4P	1.1	▪	▪	4A 2.2KW 4P	2.2	▪	▪
2A 0.75KW 4P	0.75	▪	▪	4A 3KW 4P	3	▪	▪
2A 1.1KWA 4P	1.1	▪	▪	4A 4KW 4P	4	▪	▪
2A 1.1KW 4P	1.1	▪	▪	4B 4KW 4P	4	▪	▪
2A 1.5KW 4P	1.5	▪	▪	4B 5.5KW 4P	5.5	▪	▪
2B 1.1KW 4P	1.1	▪	▪	4B 7.5KW 4P	7.5	▪	▪
2B 1.5KW 4P	1.5	▪	▪	4C 5.5KW 4P	5.5	N/A	▪
2B 2.2KWA 4P	2.2	▪	▪	4C 7.5KW 4P	7.5	▪	▪
2B 2.2KW 4P	2.2	▪	▪	4C 11KW 4P	11	▪	▪
2C 2.2KWA 4P	2.2	▪	▪	4D 11KW 4P	11	▪	▪
2C 2.2KW 4P	2.2	▪	▪	4D 15KW 4P	15	▪	▪
2C 3KW 4P	3	▪	▪	4D 18.5KW 4P	18.5	▪	▪
2C 4KW 4P	4	▪	▪	4D 22KW 4P	22	▪	▪
2D 4KW 4P	4	▪	▪	4D 30KW 4P	30	▪	▪

Size	KW	e1631	e1610	Size	KW	e1631	e1610
2D 5.5KW 4P	5.5	▪	▪				
2D 7.5KW 4P	7.5	▪	▪	4E 30KW 4P	30	▪	▪
2D 11KW 4P	11	▪	▪	4E 37KW 4P	37	▪	▪
2.5AS 0.55KW 4P	0.55	▪	▪	4E 45KW 4P	45	▪	▪
2.5AS 0.75KW 4P	0.75	▪	▪				
2.5AS 1.1KW 4P	1.1	▪	▪	5B 5.5KW 4P	5.5	▪	▪
2.5AS 1.5KW 4P	1.5	▪	▪	5B 7.5KW 4P	7.5	▪	▪
2.5A 1.1KWA 4P	1.1	▪	▪	5B 11KW 4P	11	▪	▪
2.5A 1.1KW 4P	1.1	▪	▪				
2.5A 1.5KW 4P	1.5	▪	▪	5C 7.5KW 4P	7.5	N/A	▪
2.5A 2.2KWA 4P	2.2	▪	▪	5C 11KW 4P	11	▪	▪
2.5A 2.2KW 4P	2.2	▪	▪	5C 15KW 4P	15	▪	▪

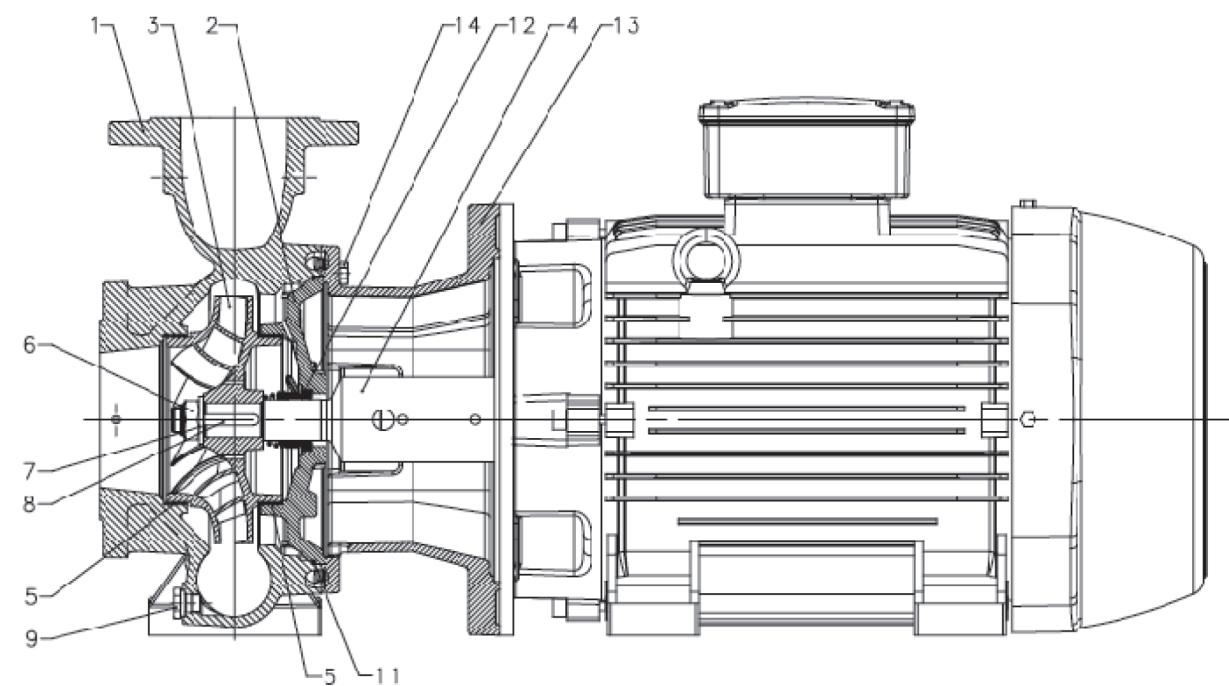
Note: ▪ = Available N/A=Not Application
(*) Models,its normal motor power should be 0.25KW or 0.37KW,actually we adjust its motor power up to 0.55KW;And its outline dimensions follow the motor of 0.55KW.

e1610 & e1631 list of Models at 50HZ, 4 Poles

Size	KW	e1631	e1610	Size	KW	e1631	e1610
5D 18.5KW 4P	18.5	▪	▪	8H 280KW 4P	280	N/A	▪
5D 22KW 4P	22	▪	▪	8H 315KW 4P	315	N/A	▪
5D 30KW 4P	30	▪	▪	10D 37KW 4P	37	▪	▪
5D 37KW 4P	37	▪	▪	10D 45KW 4P	45	▪	▪
5E 37KW 4P	37	▪	▪	10D 55KW 4P	55	▪	▪
5E 45KW 4P	45	▪	▪	10E 75KW 4P	75	N/A	▪
5E 55KW 4P	55	▪	▪	10E 90KW 4P	90	N/A	▪
5E 75KW 4P	75	▪	▪	10E 110KW 4P	110	N/A	▪
6B 11KWA 4P	11	▪	▪	10E 132KW 4P	132	N/A	▪
6B 11KW 4P	11	▪	▪	10E 160KW 4P	160	N/A	▪
6B 15KWA 4P	15	▪	▪	10E 200KW 4P	200	N/A	▪
6B 15KW 4P	15	▪	▪				▪
6C 15KW 4P	15	▪	▪				▪
6C 18.5KW 4P	18.5	▪	▪	10H 160KW 4P	160	N/A	▪
6C 22KW 4P	22	▪	▪	10H 200KW 4P	200	N/A	▪
6C 30KW 4P	30	▪	▪	10H 220KW 4P	220	N/A	▪
6D 30KW 4P	30	▪	▪	10H 250KW 4P	250	N/A	▪
6D 37KW 4P	37	▪	▪	10H 280KW 4P	280	N/A	▪
6D 45KW 4P	45	▪	▪	10H 315KW 4P	315	N/A	▪
6E 45KW 4P	45	▪	▪	10H 355KW 4P	355	N/A	▪
6E 55KW 4P	55	▪	▪	12D 75KWA 4P	75	N/A	▪
6E 75KW 4P	75	▪	▪	12D 75KW 4P	75	N/A	▪
6E 90KW 4P	90	▪	▪	12D 90KW 4P	90	N/A	▪
6E 110KW 4P	110	N/A	▪	12D 110KW 4P	110	N/A	▪
6H 90KW 4P	90	N/A	▪	12E 110KW 4P	110	N/A	▪
6H 110KW 4P	110	N/A	▪	12E 132KW 4P	132	N/A	▪
6H 132KW 4P	132	N/A	▪	12E 160KW 4P	160	N/A	▪
6H 160KW 4P	160	N/A	▪	12E 200KW 4P	200	N/A	▪
6H 200KW 4P	200	N/A	▪	12E 220KW 4P	220	N/A	▪
8C 18.5KW 4P	18.5	▪	▪	12E 250KW 4P	250	N/A	▪
8C 22KW 4P	22	▪	▪	12F 160KW 4P	160	N/A	▪
8C 30KWA 4P	30	▪	▪	12F 200KW 4P	200	N/A	▪
8C 30KW 4P	30	▪	▪	12F 220KW 4P	220	N/A	▪
8D 30KW 4P	30	N/A	▪	12F 250KW 4P	250	N/A	▪
8D 37KW 4P	37	▪	▪	12F 280KW 4P	280	N/A	▪
8D 45KW 4P	45	▪	▪	12F 315KW 4P	315	N/A	▪
8D 55KW 4P	55	▪	▪				
8D 75KW 4P	75	▪	▪				
8E 75KWA 4P	75	N/A	▪				
8E 75KW 4P	75	N/A	▪				
8E 90KW 4P	90	N/A	▪				
8E 110KW 4P	110	N/A	▪				
8E 132KW 4P	132	N/A	▪				
8H 132KW 4P	132	N/A	▪				
8H 160KW 4P	160	N/A	▪				
8H 200KW 4P	200	N/A	▪				
8H 220KW 4P	220	N/A	▪				
8H 250KW 4P	250	N/A	▪				

Note: ▪ = Available N/A=Not Application

e1631 Cross-section and main components

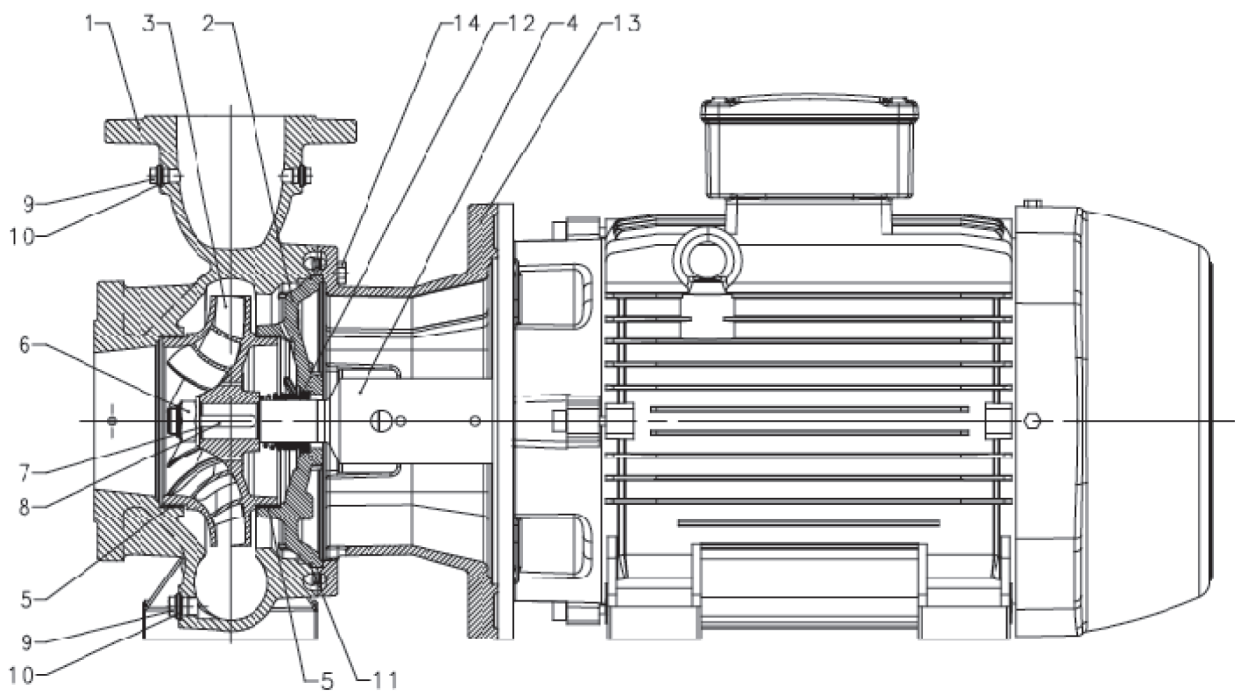


Pump size				
1.25AS	1.5AS	2AS	2.5AS	3.25A
1.25A	1.5A	2A	2.5A	3.25B
1.25B	1.5B	2B	2.5B	3.25C
1.25C	1.5C	2C	2.5C	

NUM.	PART	MATERIAL	REFERENCE STANDARDS		
			EUROPE	USA	CHINA
1	Volute Casing	Cast Iron	EN 1561-GJL-250	ASTM CLASS 35	GB/T9439 - HT250
	Volute Casing(2.5,3.25)	Stainless steel	EN 10088-1-1.4301	AISI 304	GB/T1220-0Cr18Ni9
	Volute Casing(2.5,3.25)	Stainless steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
2	Casing Cover	Cast Iron	EN 1561-GJL-250	ASTM CLASS 35	GB/T9439 - HT250
	Casing Cover(2.5,3.25)	Stainless Steel	EN 10088-1-1.4301	AISI 304	GB/T1220-0Cr18Ni9
	Casing Cover(2.5,3.25)	Stainless Steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
3	Impeller(1.25,1.5,2)	Fabricated Stainless Steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
	Impeller(2.5,3.25)	Stainless Steel	EN 10088-1-1.4301	AISI 304	GB/T1220-0Cr18Ni9
	Impeller(2.5,3.25)	Stainless Steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
	Impeller(2.5,3.25)	Bronze	EN 1982-CuSn10-C	UNS C90700	GB/T1176-ZCuSn10P1
4	Stub Shaft	Stainless Steel	EN 10088-1-1.4021	AISI 420	GB/T4237-20Cr13
	Stub Shaft(2.5AS/A/B,3.25A)	Stainless Steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
	Stub Shaft(2.5C,3.25B,3.25C)	Stainless Steel	EN 10088-1-1.4057	AISI 431	GB/T1220-1Cr17Ni2
5	Wear Ring	Stainless Steel	EN 10088-1.4301	AISI 304	GB/T1220-0Cr18Ni9
6	Impeller Nut and Washer	Stainless Steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
8	Impeller Key	Stainless Steel	EN 10088-1-1.4404	AISI 316L	GB/T1220-00Cr17Ni14Mo2
9	Fill and drain Plugs	Stainless Steel	EN 10088-1-1.4571	AISI 316Ti	GB/T1220
11	O-Ring	EPDM(Standard Version)			
12	Mechanical Seal	Carbon/Silicon carbide /EPDM(Standard Version)			
13	Adapter★	Aluminum	EN 1706-AC46100	-	
13	Adapter	Cast Iron	EN 1561-GJL-250	ASTM CLASS 35	GB/T9439 - HT250
13	Motor Adapter	Cast Iron	EN 1561-GJL-250	ASTM CLASS 35	GB/T9439 - HT250
16	Fastening bolts and screws	Steel			

★ Means models 1.25/1.5/2 AS and 1.25/1.5 adapter material is aluminum.

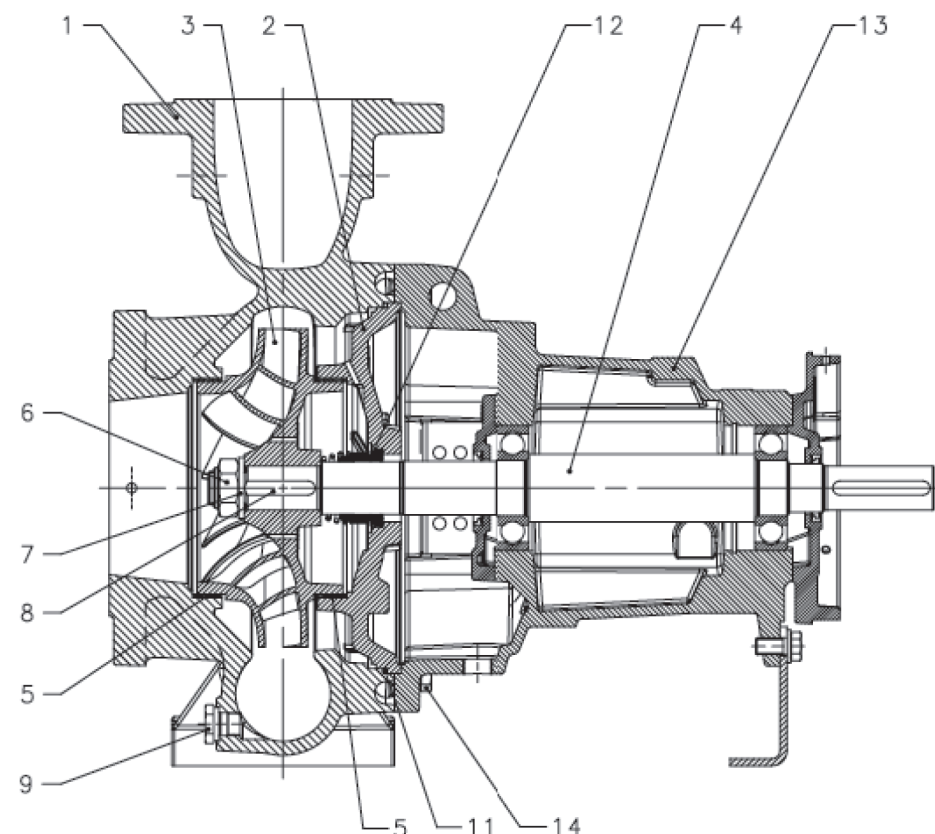
e1631 Cross-section and main components



Pump Size					
2D	2.5D	3.25DT	3.25D	3.25E	4A
4B	4C	4D	4E	5B	5C
5D	5E	6B	6C	6D	6E
8C	8D	10D			

NUM.	PART	MATERIAL	REFERENCE STANDARDS		
			EUROPE	USA	CHINA
1	Volute Casing	Cast iron	EN 1561-GJL-250	ASTM CLASS 35	GB/T9439 - HT250
	Volute Casing	Stainless steel	1.4517	-	-
	Volute Casing(except 8C,8D,10D)	Stainless steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
	Volute Casing(4A/B/C/D/E, 5B/C/D/E,6C/6D/6E)	Stainless steel	EN 10088-1-1.4301	AISI 304	GB/T1220-0Cr18Ni9
	Volute Casing(8C,8D,10D)	Ductile Iron	EN 1563-EN-GIS400-15	ASTM A536 40-60-18	GB/T1348
2	Casing Cover	Cast iron	EN 1561-GJL-250	ASTM CLASS 35	GB/T9439 - HT250
	Casing Cover	Stainless steel	1.4517	-	-
	Casing Cover(Except 8C,8D,10D)	Stainless steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
	Casing Cover(4A/B/C/D/E, 5B/C/D/E,6C/6D/6E)	Stainless steel	EN 10088-1-1.4301	AISI 304	GB/T1220-0Cr18Ni9
	Casing Cover(8C,8D,10D)	Ductile Iron	EN 1563-EN-GIS400-15	ASTM A536 40-60-18	GB/T1348
3	Impeller	Stainless steel	1.4517	-	-
	Impeller	Stainless steel	EN 10088-1-1.4301	AISI 304	GB/T1220-0Cr18Ni9
	Impeller(Except 8C,8D,10D)	Stainless steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
	Impeller	Bronze	EN 1982-CuSn10-C	UNC C90700	GB/T1176-ZCuSn10P1
4	Stub shaft	Stainless steel	EN 10088-1-1.4021	AISI 420	GB/T4237-20Cr13
	Stub shaft	Stainless steel	1.4462	AISI S31803	00Cr22Ni5Mo3N
5	Wear ring	Stainless steel	EN 10088-1.4301	AISI 304	GB/T1220-0Cr18Ni9
6,7	Impeller Nut and Washer	Stainless steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
8	Impeller key	Stainless steel	EN 10088-1-1.4571	AISI 316Ti	GB/T1220
9	Fill and drain Plugs	Stainless steel	EN 10088-1-1.4571	AISI 316Ti	GB/T1220
11	O-Ring	EPDM(Standard Version)			
12	Mechanical Seal	Carbon/Silicon carbide /EPDM(Standard Version)			
13	Motor Adapter	Cast iron	EN 1561-GJL-250	ASTM CLASS 35	GB/T9439 - HT250
14	Fastening bolts and screws	Steel			

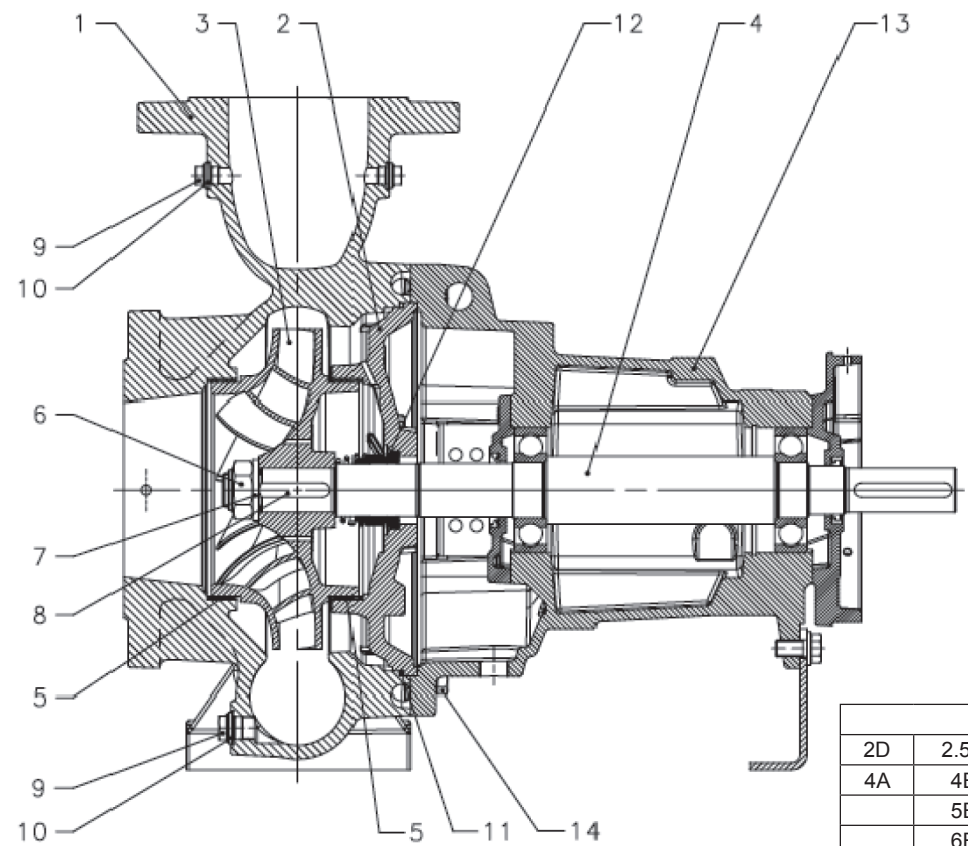
e1610 Cross-section and main components



Pump Size				
1.25AS	1.25A	1.25B	1.25C	3.25A
1.5AS	1.5A	1.5B	1.5C	3.25B
2AS	2A	2B	2C	3.25C
2.5AS	2.5A	2.5B	2.5C	

NUM.	PART	MATERIAL	REFERENCE STANDARDS		
			EUROPE	USA	CHINA
1	Volute Casing	Cast Iron	EN 1561-GJL-250	ASTM CLASS 35	GB/T9439 - HT250
	Volute Casing(2.5,3,25)	Stainless steel	EN 10088-1-1.4301	AISI 304	GB/T1220-0Cr18Ni9
	Volute Casing(2.5,3,25)	Stainless steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
2	Casing Cover	Cast Iron	EN 1561-GJL-250	ASTM CLASS 35	GB/T9439 - HT250
	Casing Cover(2.5,3,25)	Stainless Steel	EN 10088-1-1.4301	AISI 304	GB/T1220-0Cr18Ni9
	Casing Cover(2.5,3,25)	Stainless Steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
3	Impeller(1.25,1.5,2)	Fabricated Stainless Steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
	Impeller(2.5,3,25)	Stainless Steel	EN 10088-1-1.4301	AISI 304	GB/T1220-0Cr18Ni9
	Impeller(2.5,3,25)	Stainless Steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
	Impeller(2.5,3,25)	Bronze	EN 1982-CuSn10-C	UNS C90700	GB/T1176-ZCuSn10P1
4	Shaft	Stainless Steel	EN 10088-1-1.4021	AISI 420	GB/T4237-20Cr13
	Shaft(2.5AS/A/B,3.25A)	Stainless Steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
	Shaft(2.5C,3.25B,3.25C)	Stainless Steel	EN 10088-1-1.4057	AISI 431	GB/T1220-1Cr17Ni2
5	Wear Ring	Stainless Steel	EN 10088-1.4301	AISI 304	GB/T1220-0Cr18Ni9
6	Impeller Nut and Washer	Stainless Steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
8	Impeller Key	Stainless Steel	EN 10088-1-1.4404	AISI 316L	GB/T1220-00Cr17Ni14Mo2
9	Fill and drain Plugs	Stainless Steel	EN 10088-1-1.4571	AISI 316Ti	GB/T1220
11	O-Ring	EPDM(Standard Version)			
12	Mechanical Seal	Carbon/Silicon carbide /EPDM(Standard Version)			
13	Bearing bracket	Cast Iron	EN 1561-GJL-250	ASTM CLASS 35	GB/T9439 - HT250
14	Fastening bolts and screws	Steel			

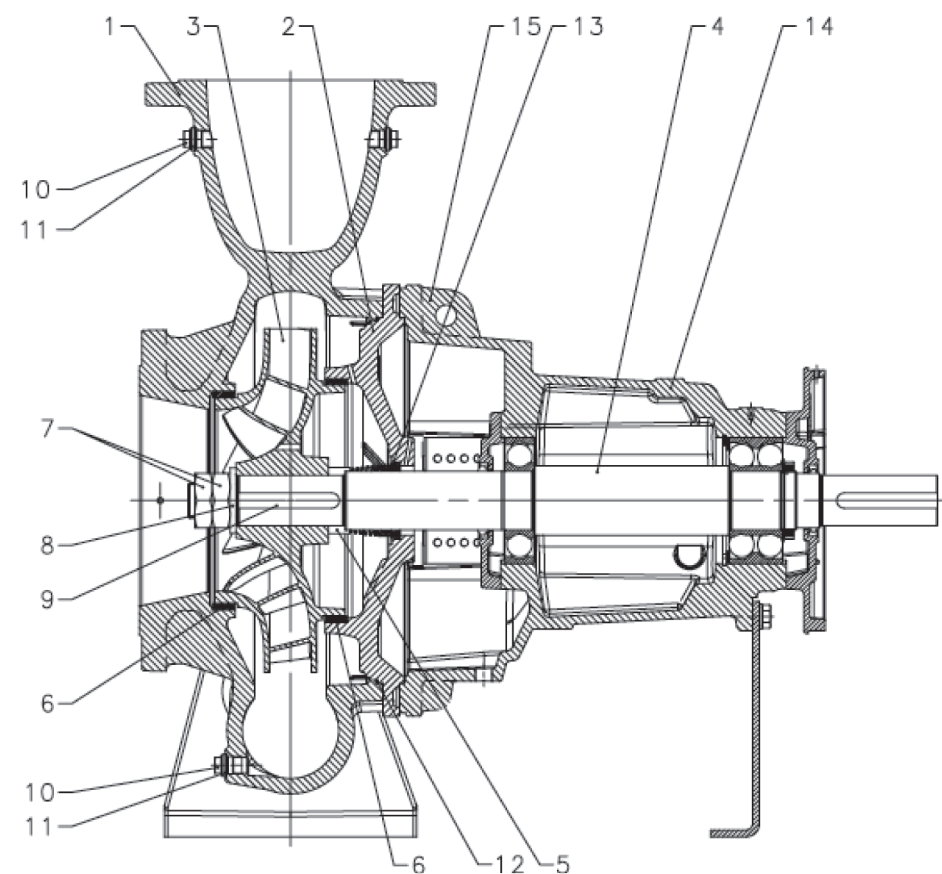
e1610 Cross-section and main components



Pump Size				
2D	2.5D	3.25D	3.25DT	3.25E
4A	4B	4C	4D	4E
	5B	5C	5D	5E
	6B	6C	6D	6E
		8C	8D	10D

NUM.	PART	MATERIAL	REFERENCE STANDARDS		
			EUROPE	USA	CHINA
1	Volute Casing	Cast iron	EN 1561-GJL-250	ASTM CLASS 35	GB/T9439 - HT250
	Volute Casing	Stainless steel	1.4517	-	-
	Volute Casing(except 8C,8D,10D)	Stainless steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
	Volute Casing(4A/B/C/D/E, 5B/C/D/E,6C/6D/6E)	Stainless steel	EN 10088-1-1.4301	AISI 304	GB/T1220-0Cr18Ni9
	Volute Casing(8C,8D,10D)	Ductile Iron	EN 1563-EN-GIS400-15	ASTM A536 40-60-18	GB/T1348
2	Casing Cover	Cast iron	EN 1561-GJL-250	ASTM CLASS 35	GB/T9439 - HT250
	Casing Cover	Stainless steel	1.4517	-	-
	Casing Cover(Except 8C,8D,10D)	Stainless steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
	Casing Cover(4A/B/C/D/E, 5B/C/D/E,6C/6D/6E)	Stainless steel	EN 10088-1-1.4301	AISI 304	GB/T1220-0Cr18Ni9
	Casing Cover(8C,8D,10D)	Ductile Iron	EN 1563-EN-GIS400-15	ASTM A536 40-60-18	GB/T1348
3	Impeller	Stainless steel	1.4517	-	-
	Impeller	Stainless steel	EN 10088-1-1.4301	AISI 304	GB/T1220-0Cr18Ni9
	Impeller(Except 8C,8D,10D)	Stainless steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
	Impeller	Bronze	EN 1982-CuSn10-C	UNC C90700	GB/T1176-ZCuSn10P1
4	Shaft	Stainless steel	EN 10088-1-1.4021	AISI 420	GB/T4237-20Cr13
	Shaft	Stainless steel	1.4462	AISI S31803	00Cr22Ni5Mo3N
5	Wear ring	Stainless steel	EN 10088-1.4301	AISI 304	GB/T1220-0Cr18Ni9
6,7	Impeller Nut and Washer	Stainless steel	EN 10088-1-1.4401	AISI 316	GB/T1220-0Cr17Ni12Mo2
8	Impeller key	Stainless steel	EN 10088-1-1.4571	AISI 316Ti	GB/T1220
9	Fill and drain Plugs	Stainless steel	EN 10088-1-1.4571	AISI 316Ti	GB/T1220
11	O-Ring	EPDM(Standard Version)			
12	Mechanical Seal	Carbon/Silicon carbide /EPDM(Standard Version)			
13	Bearing bracket	Cast iron	EN 1561-GJL-250	ASTM CLASS 35	GB/T9439 - HT250
14	Fastening bolts and screws	Steel			

e1610 Cross-section and main components



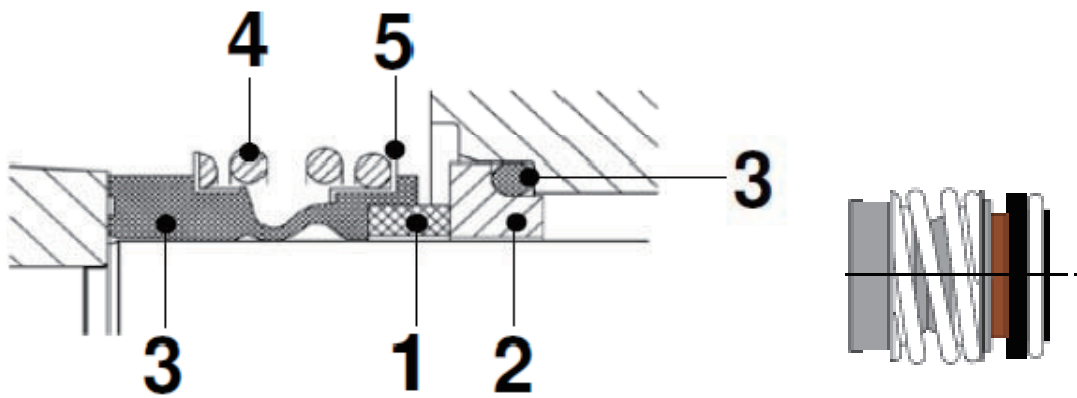
Pump Size							
6H	8E	8H	10E	10H	12D	12E	12F

Num.	PART	MATERIAL	REFERENCE STANDARDS		
			EUROPE	USA	CHINA
1	Volute Casing	Ductile iron	EN 1563-EN-GIS400-15	ASTM A536 40-60-18	GB/T1348
	Volute Casing	Stainless steel	1.4517	-	-
2	Casing Cover	Ductile iron	EN 1563-EN-GIS400-15	ASTM A536 40-60-18	GB/T1348
	Casing Cover	Stainless steel	1.4517	-	-
3	Impeller	Stainless steel	EN 10088-1-1.4301	AISI 304	GB/T12220-0Cr18Ni9
	Impeller	Stainless steel	1.4517	-	-
	Impeller	Bronze	EN 1982-CuSn10-C	UNS C90700	GB/T1176-ZCuSn10P1
4	Shaft	Stainless steel	EN 10088-1-1.4021	AISI 420	GB/T4237-20Cr13
	Shaft	Stainless steel	1.4462	AISI S31803	00Cr22Ni5Mo3N
5	Spacer ring	Stainless steel	EN 10088-1-1.4057	AISI 431	GB/T12220-1Cr17Ni1
6	Wear ring	Stainless steel	EN 10088-1.4301	AISI 304	GB/T12220-0Cr18Ni9
7,8	Impeller Nut and Washer	Stainless steel	EN 10088-1-1.4401	AISI 316	GB/T12220-0Cr17Ni12Mo2
9	Impeller key	Stainless steel	EN 10088-1-1.4571	AISI 316Ti	GB/T12220
10	Plug	Stainless steel	EN 10088-1-1.4571	AISI 316Ti	GB/T12220
12	O-Ring	EPDM(Standard Version)			
13	Mechanical seal	Carbon/Silicon carbide /EPDM(Standard Version)			
14	Bearing bracket	Cast iron	EN 1561-GJL-250	ASTM Class 35	GB/T9439 - HT250
15	Fastening Screws	Steel			

Mechanical seals for e 1610 & e1631

Configuration of elastomer bellows mechanical seals;

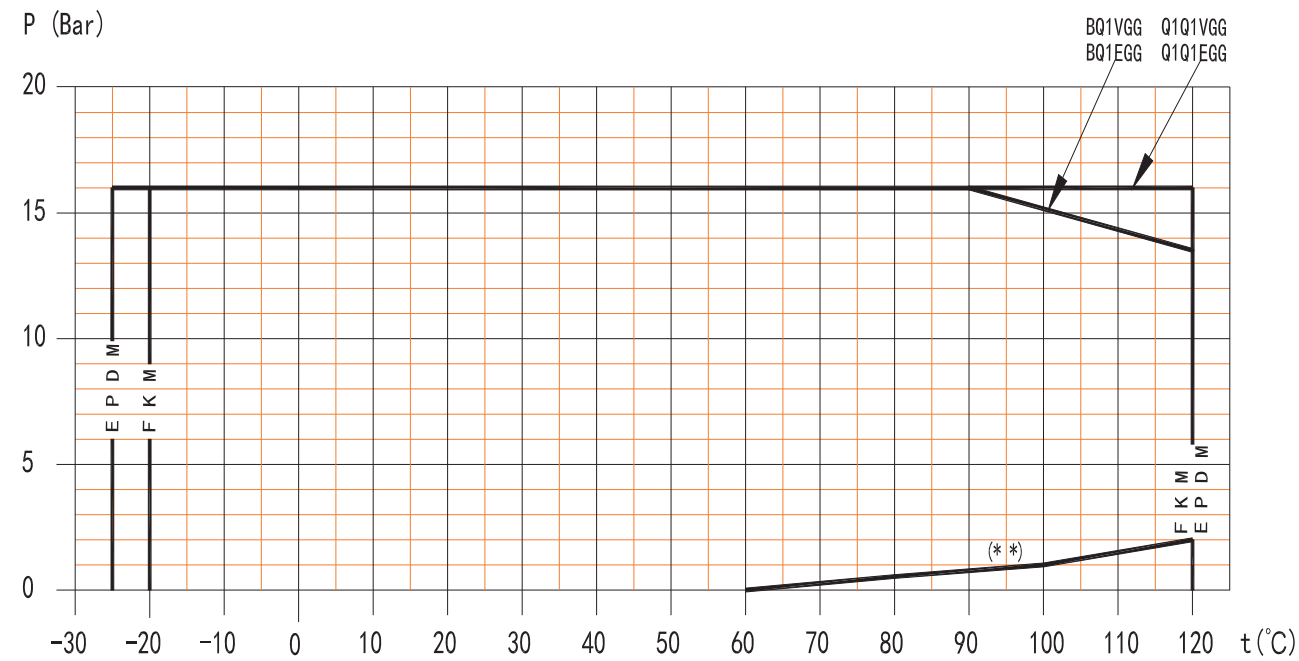
Compact design, mechanical seal with mounting dimensions according to DIN 24960,ISO3069 & EN 12756.



POSITION 1-2	POSITION 3	POSITION 4-5
B: Resin impregnated carbon	E : EPDM	
Q ₁ : Silicon Carbide	F: FKM(Fluorocarbon)	G: AISI 316

Type	POSITION					Pressure	Range Temperature
	1	2	3	4	5	(bar)	°C
	Rotating ring	Fixed ring	Elastomers	Spring	Other components		
Standard mechanical seal							
BQ ₁ EGG	B	Q ₁	E	G	G	16/13.5	-25...+90/+120
Other types of mechanical seal							
BQ ₁ VGG	B	Q ₁	V	G	G	16/13.5	-20...+90/+120
Q ₁ Q ₁ EGG	Q ₁	Q ₁	E	G	G	16	-25 to +120
Q ₁ Q ₁ VGG	Q ₁	Q ₁	V	G	G	16	-20 to +120

Pressure/Temperature Application limits for e1610 & e1631 pump



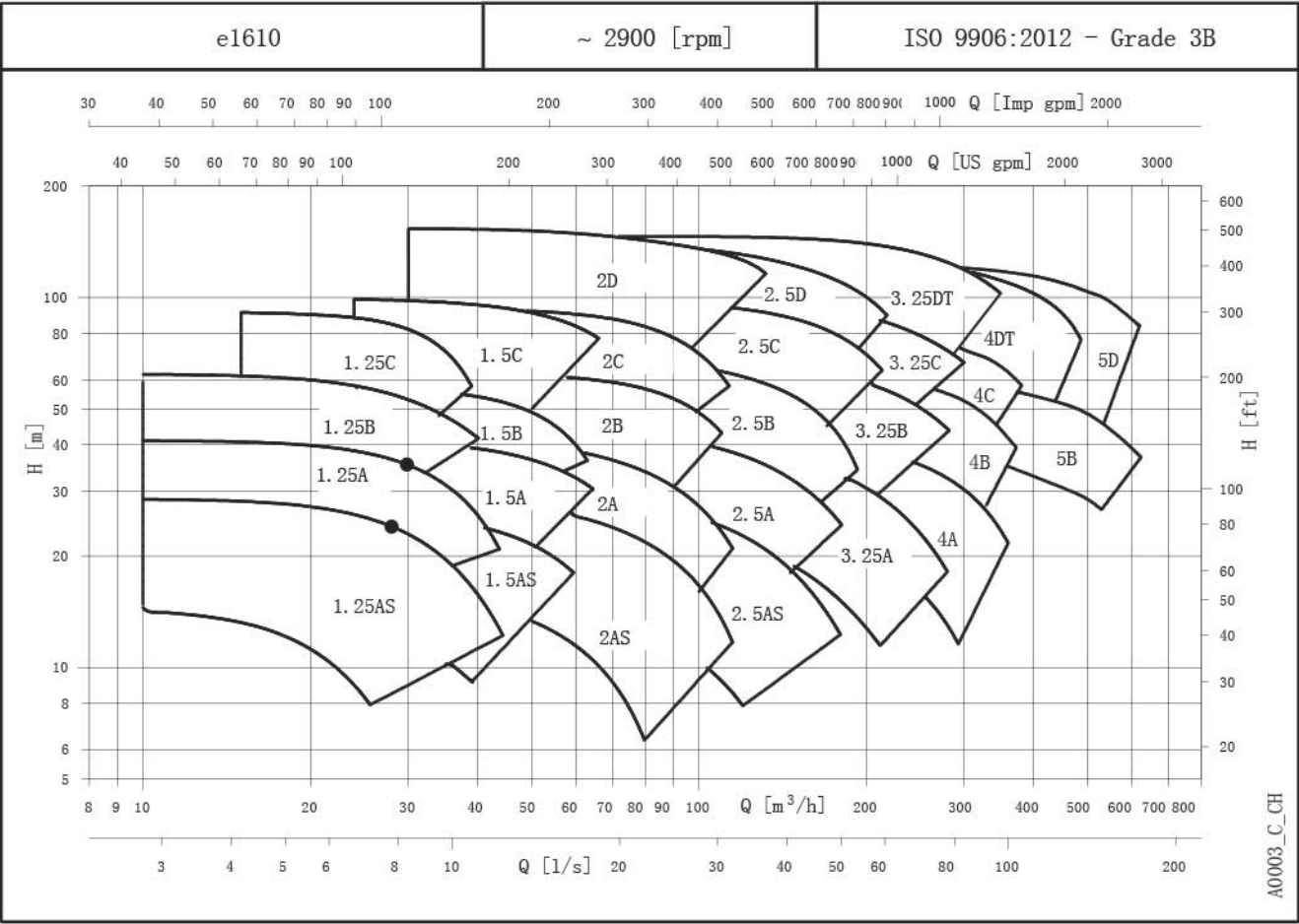
Note: 1. For water or similar to water medium, pump could normally work within the range given by above graphics.

If beyond the application limits please consult the Xylem application engineers.

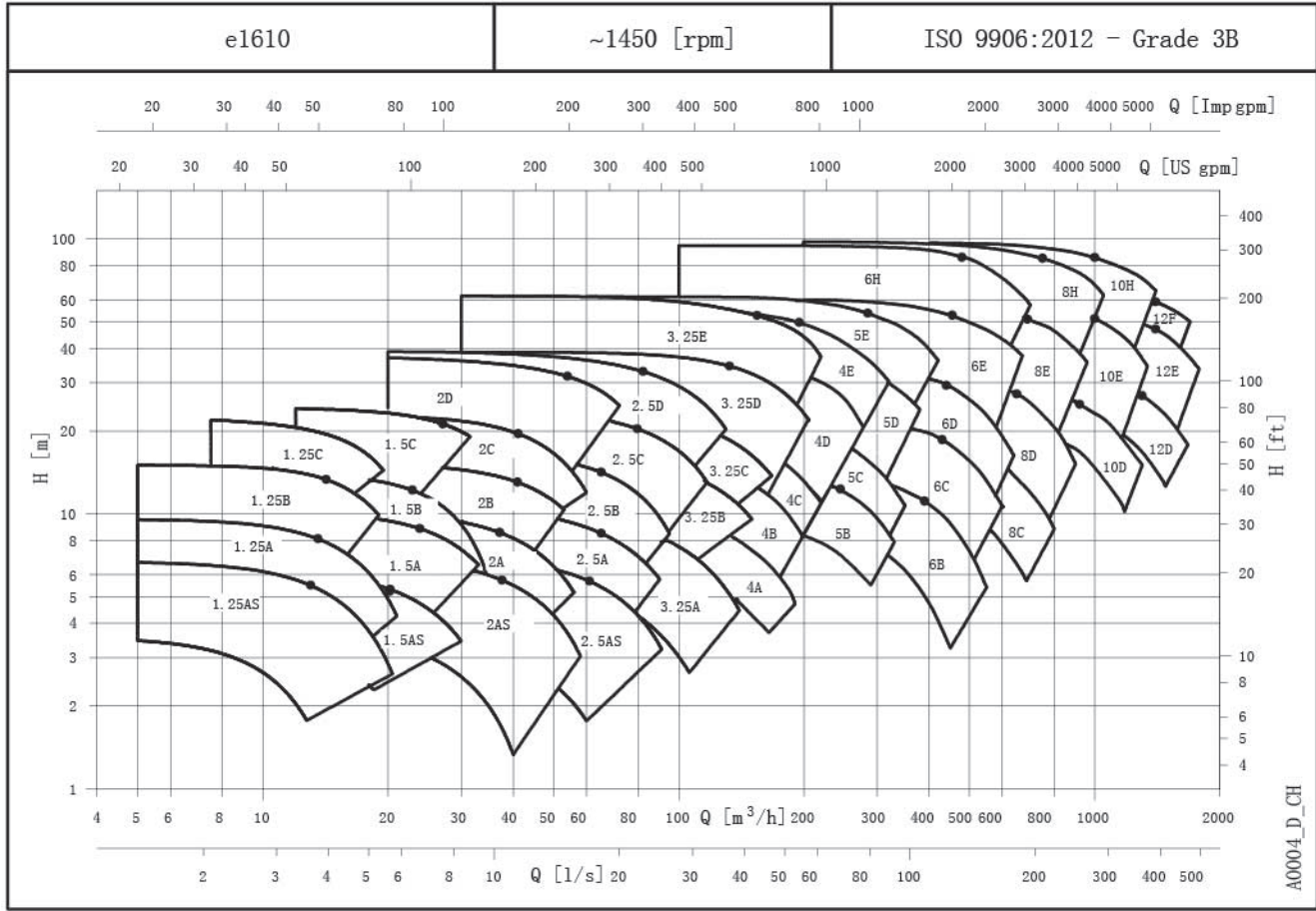
2. Material for the volute casing and casing cover are cast iron, ductile iron, stainless steel or duplex stainless steel;

3. (**) Minimum pressure required at mechanical seal (hot water, could be different in case of other liquids) .

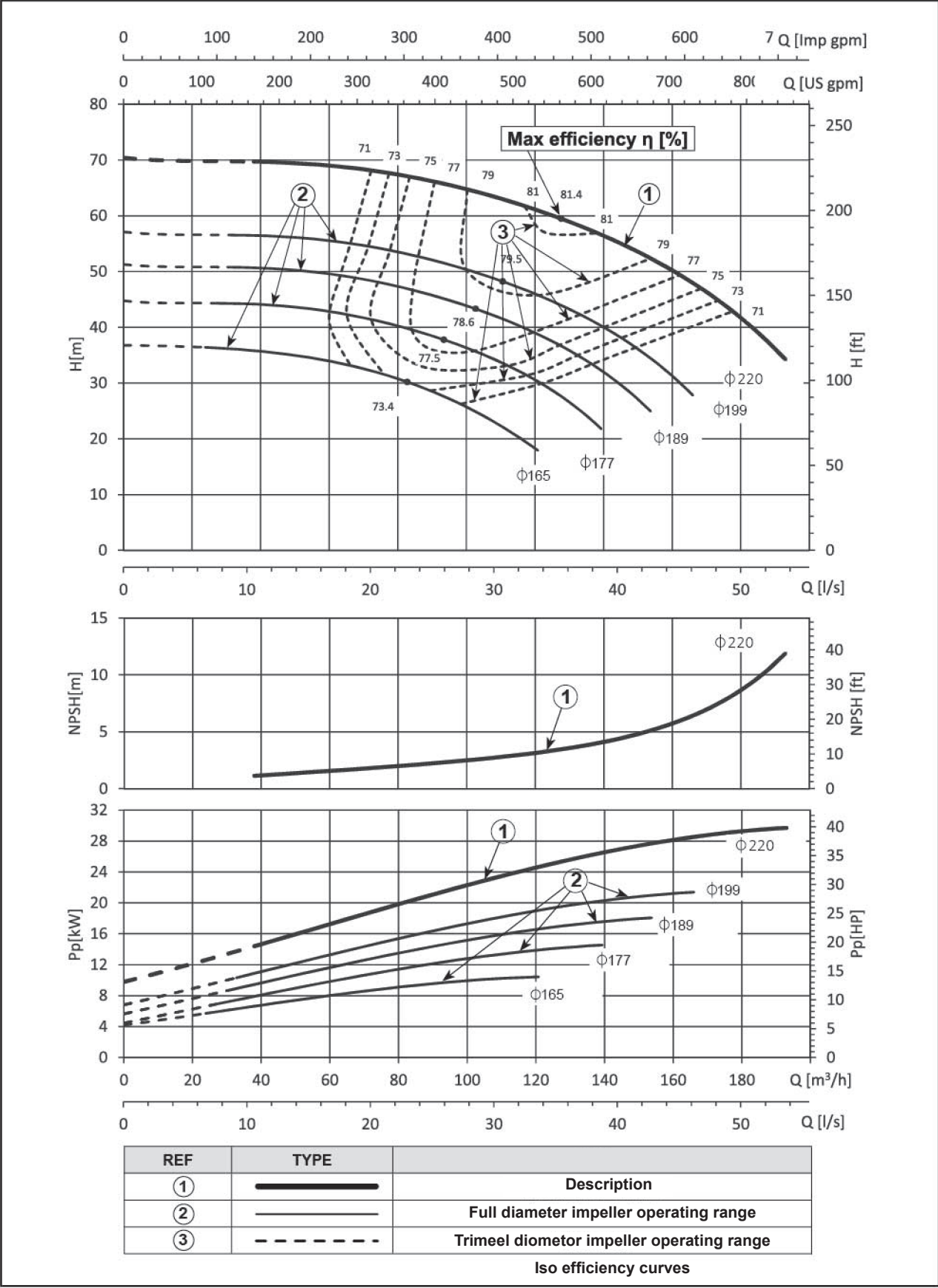
e1610 Series Hydraulic Performance Rang at 50Hz,2Poles



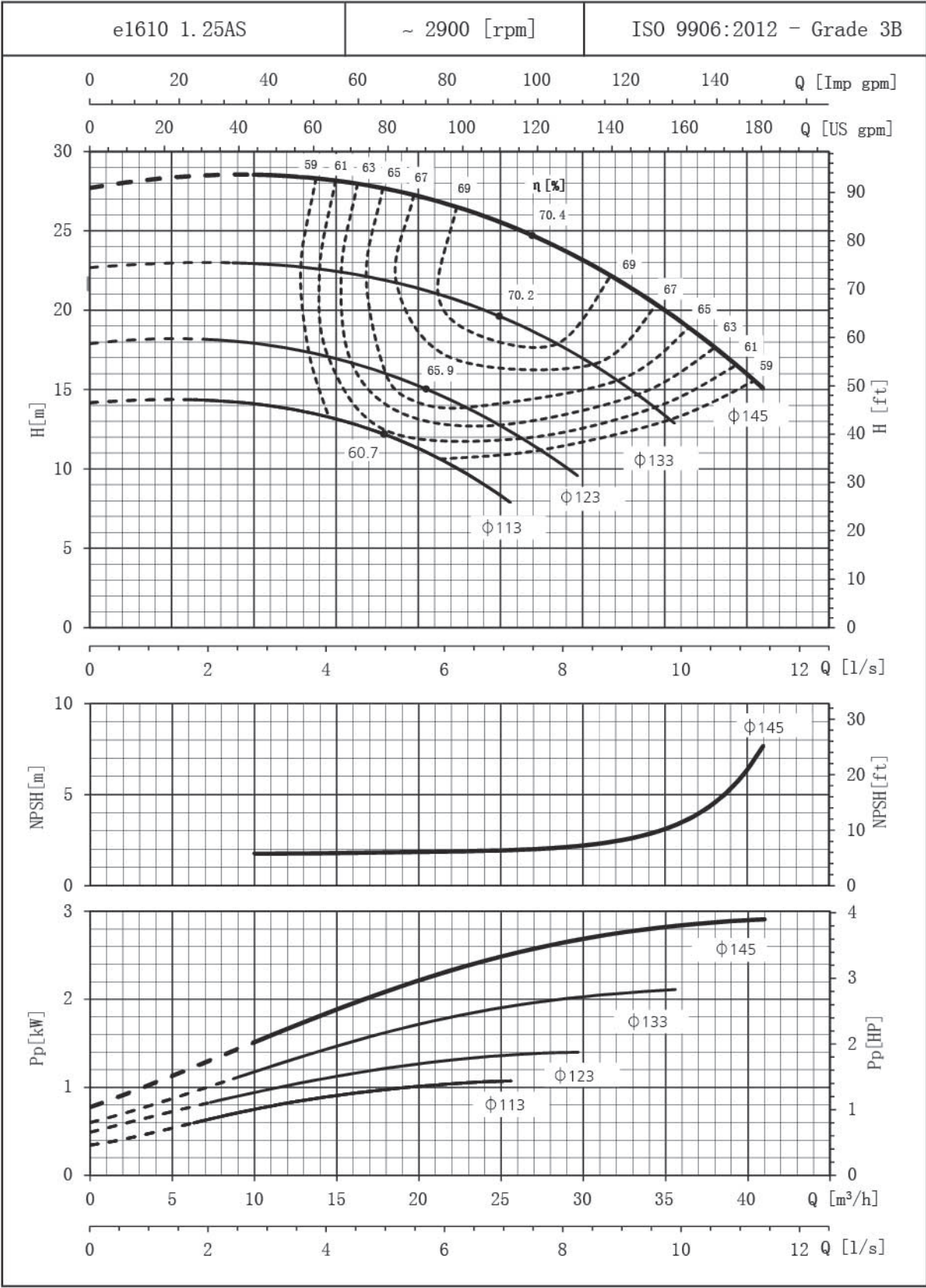
e1610 Series Hydraulic Performance Rang at 50Hz,4Poles



e1610 Series identification of Graph

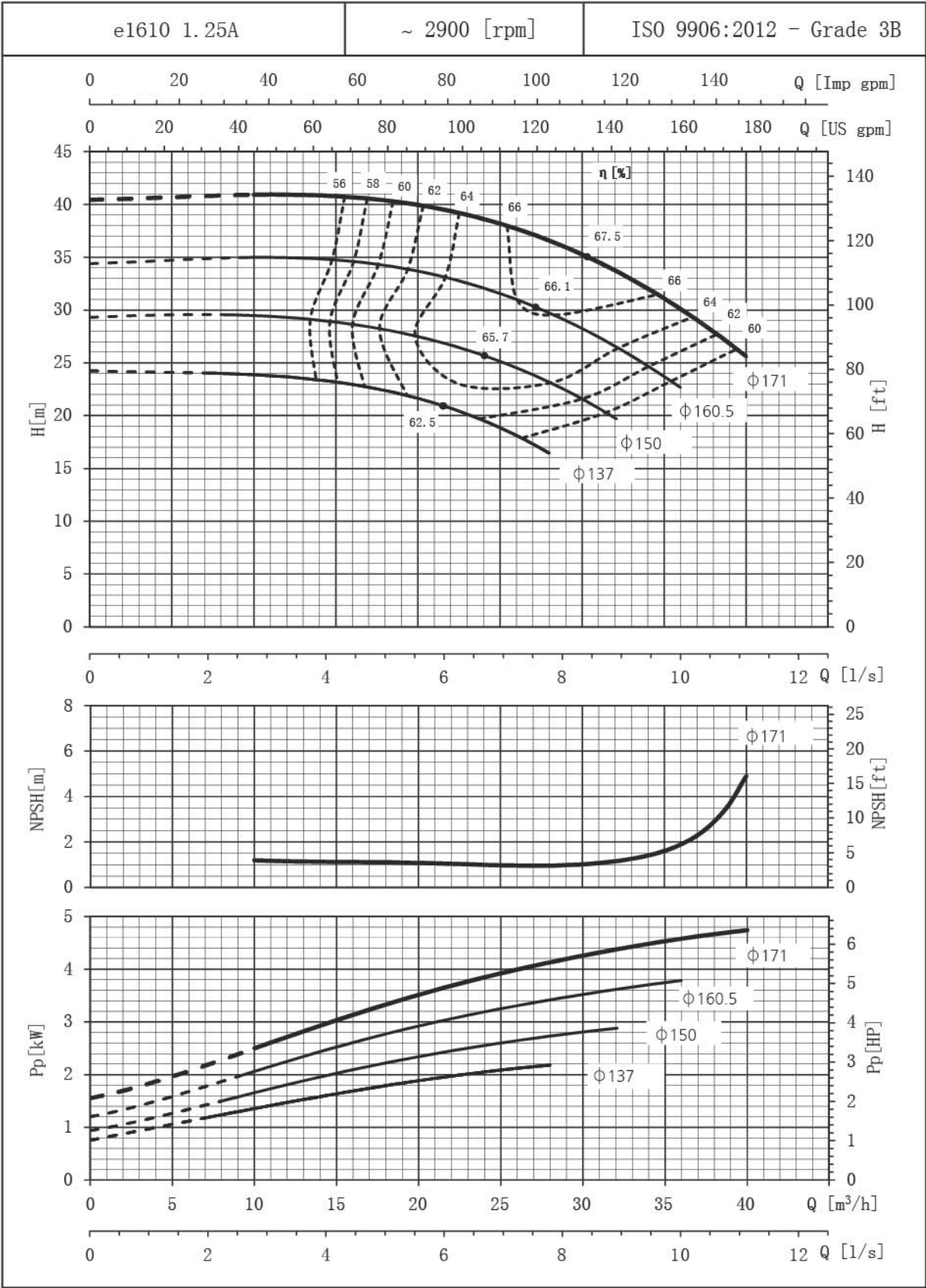


e1610 Series Operating characteristics at 50Hz,2Poles



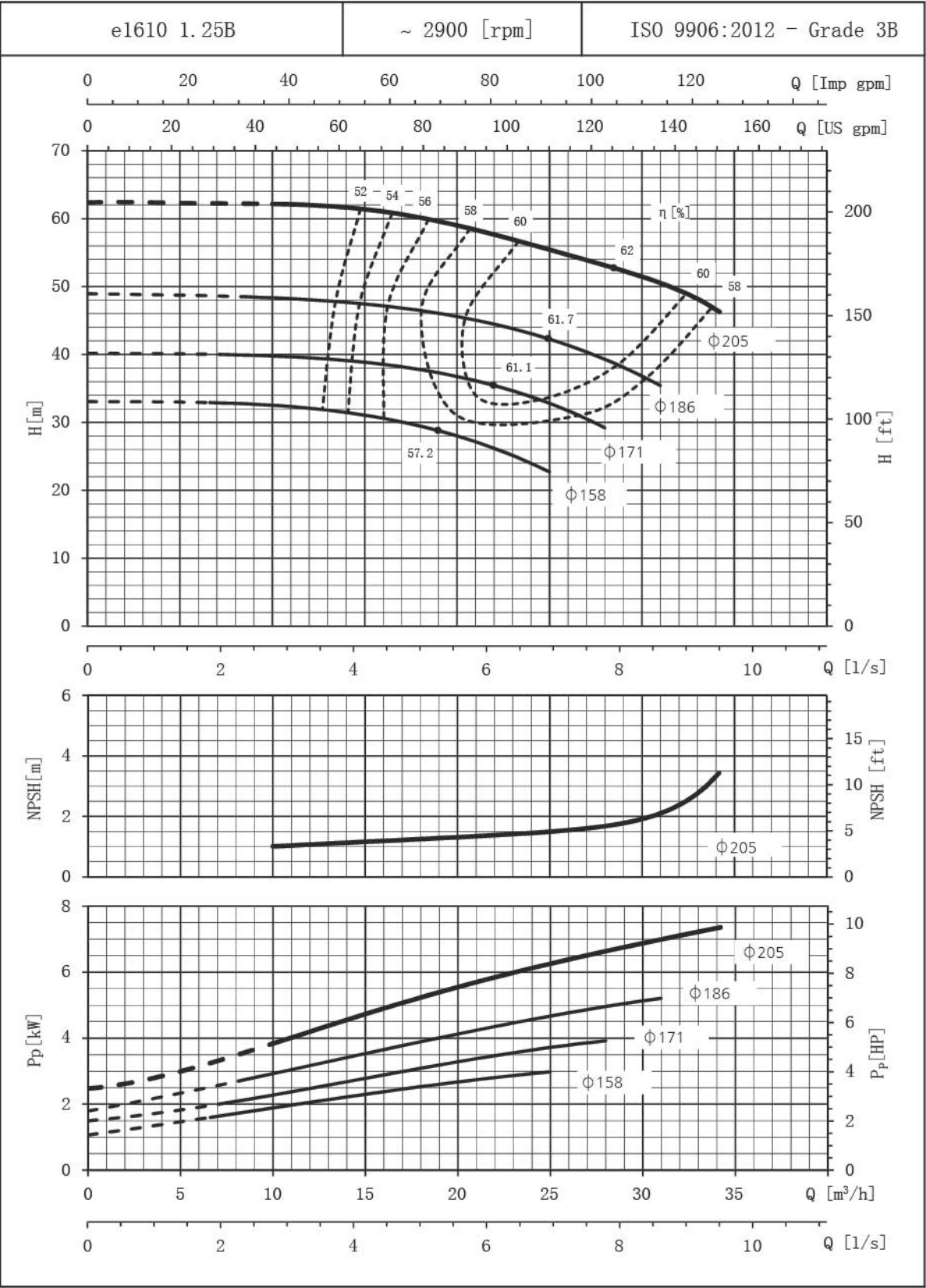
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density $P=1.0\text{kg/dm}^3$ and kinematic viscosity $v=1\text{mm}^2/\text{seconel}$.

e1610 Series Operating characteristics at 50Hz,2Poles



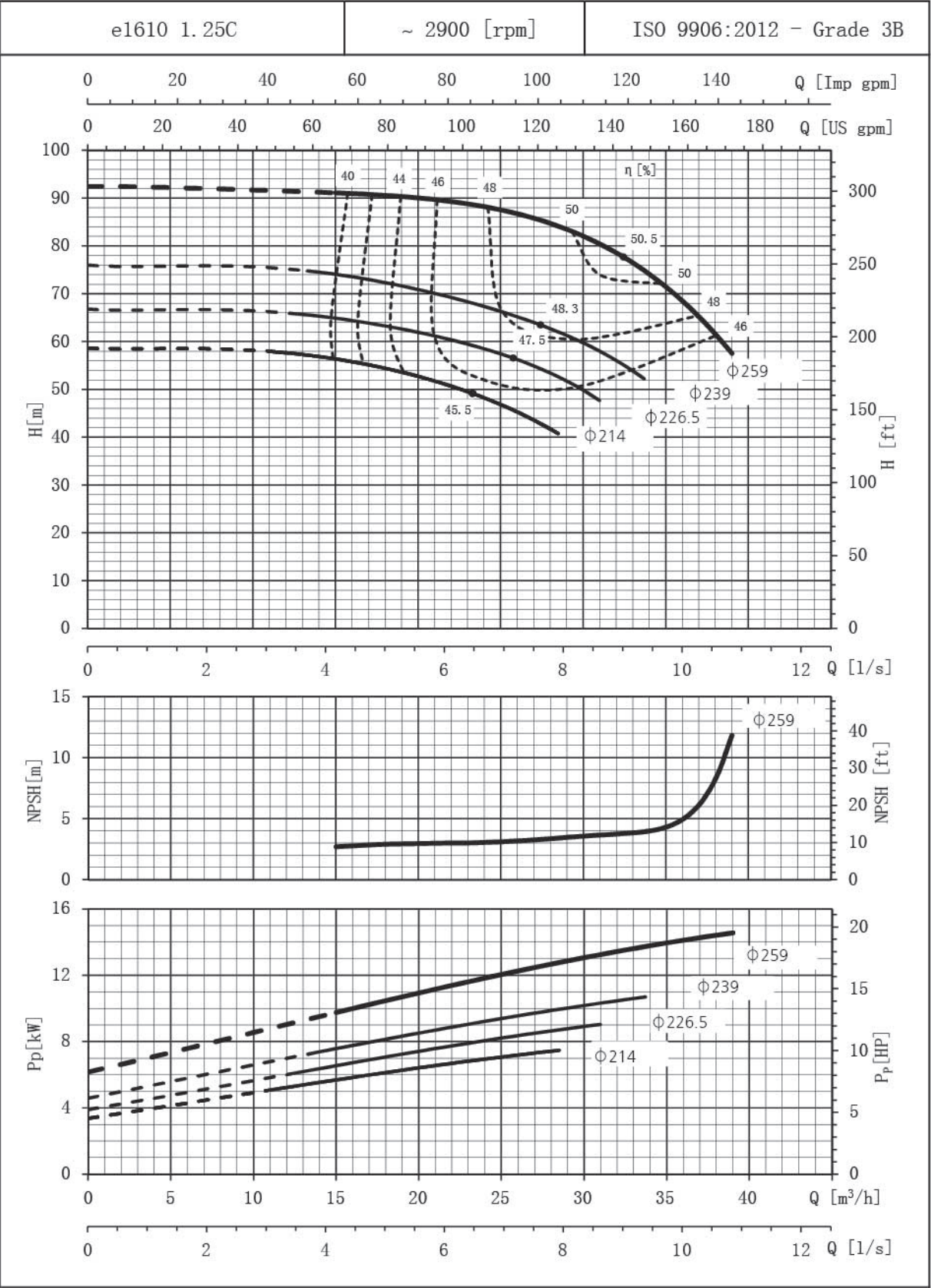
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density $P=1.0\text{kg/dm}^3$ and kinematic viscosity $v=1\text{mm}^2/\text{seconel}$.

e1610 Series Operating characteristics at 50Hz,2Poles



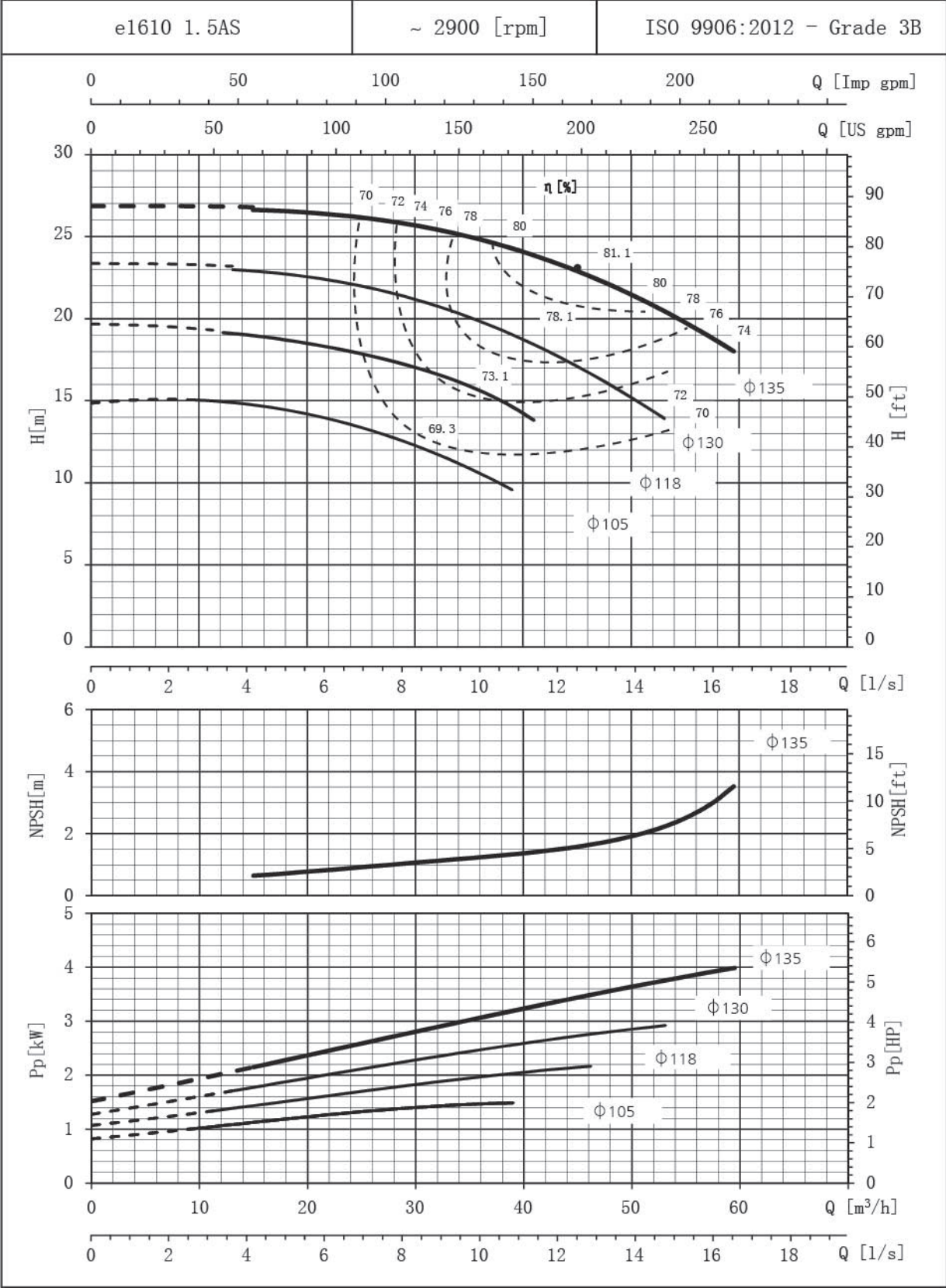
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density P=1.0kg/dm³ and kinematic viscosity v=1mm²/seconel.

e1610 Series Operating characteristics at 50Hz,2Poles



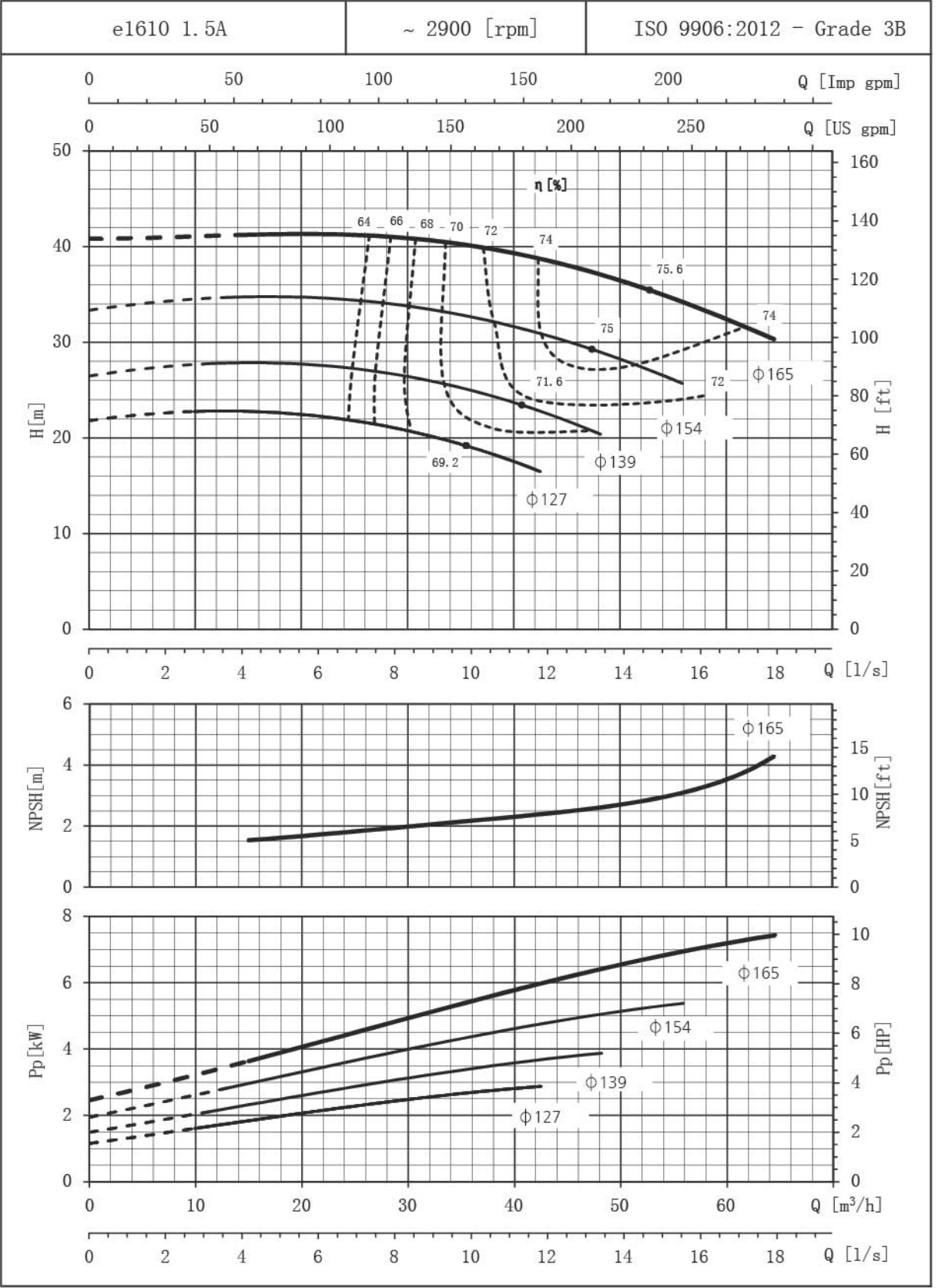
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density P=1.0kg/dm³ and kinematic viscosity v=1mm²/seconel.

e1610 Series Operating characteristics at 50Hz,2Poles



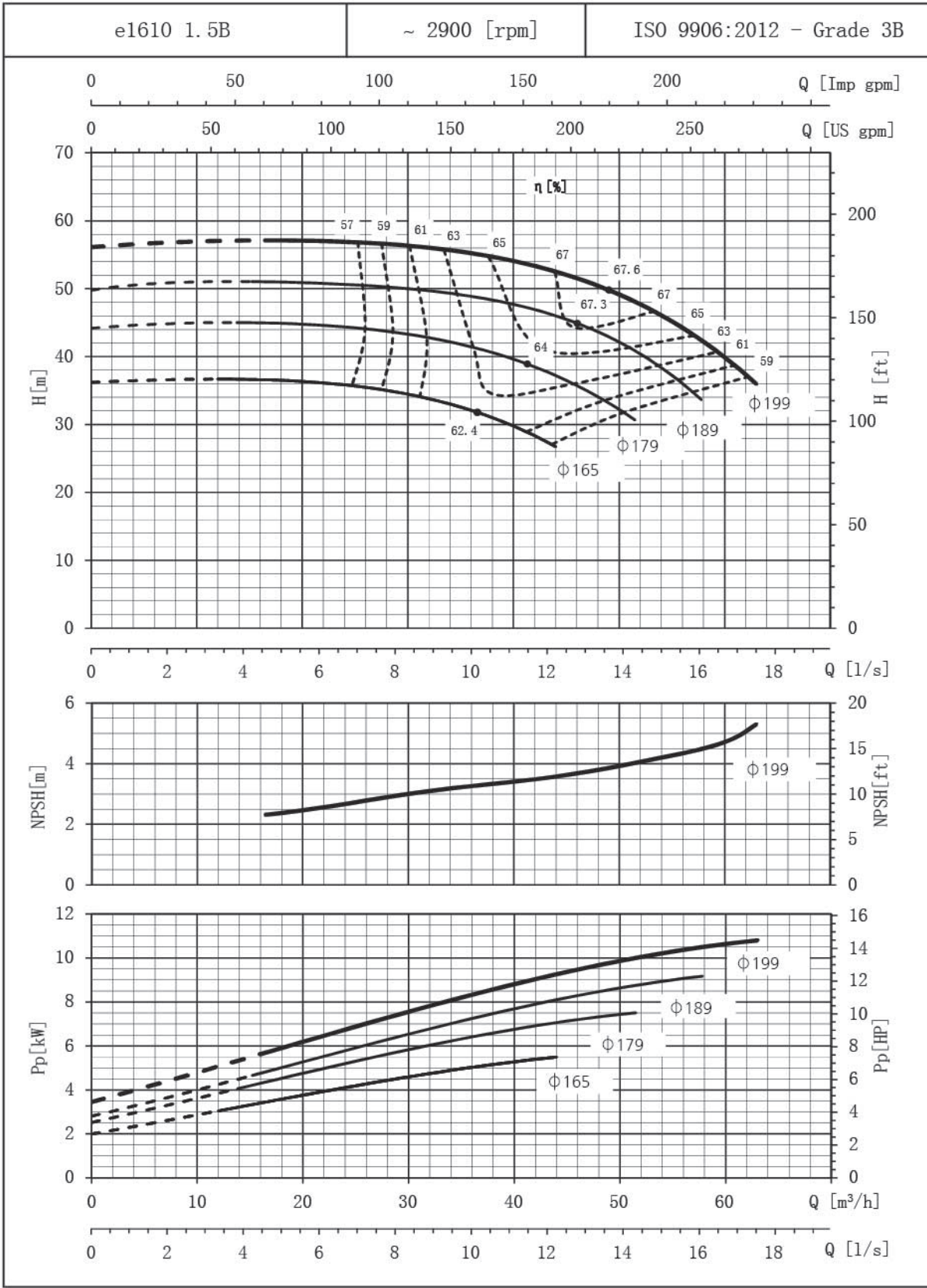
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density $P=1.0\text{kg/dm}^3$ and kinematic viscosity $v=1\text{mm}^2/\text{second}$ el.

e1610 Series Operating characteristics at 50Hz,2Poles



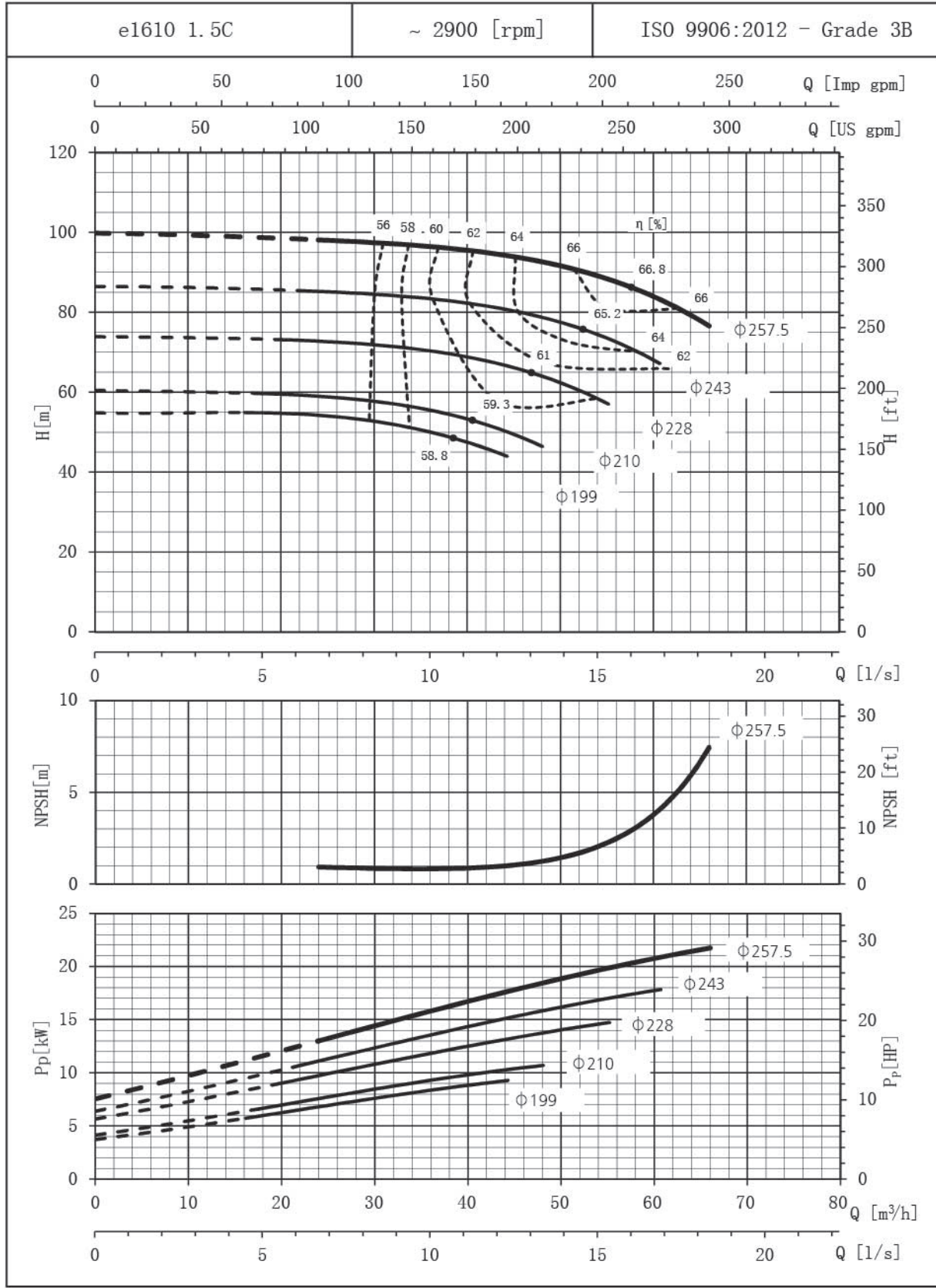
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density $P=1.0\text{kg/dm}^3$ and kinematic viscosity $v=1\text{mm}^2/\text{second}$ el.

e1610 Series Operating characteristics at 50Hz,2Poles



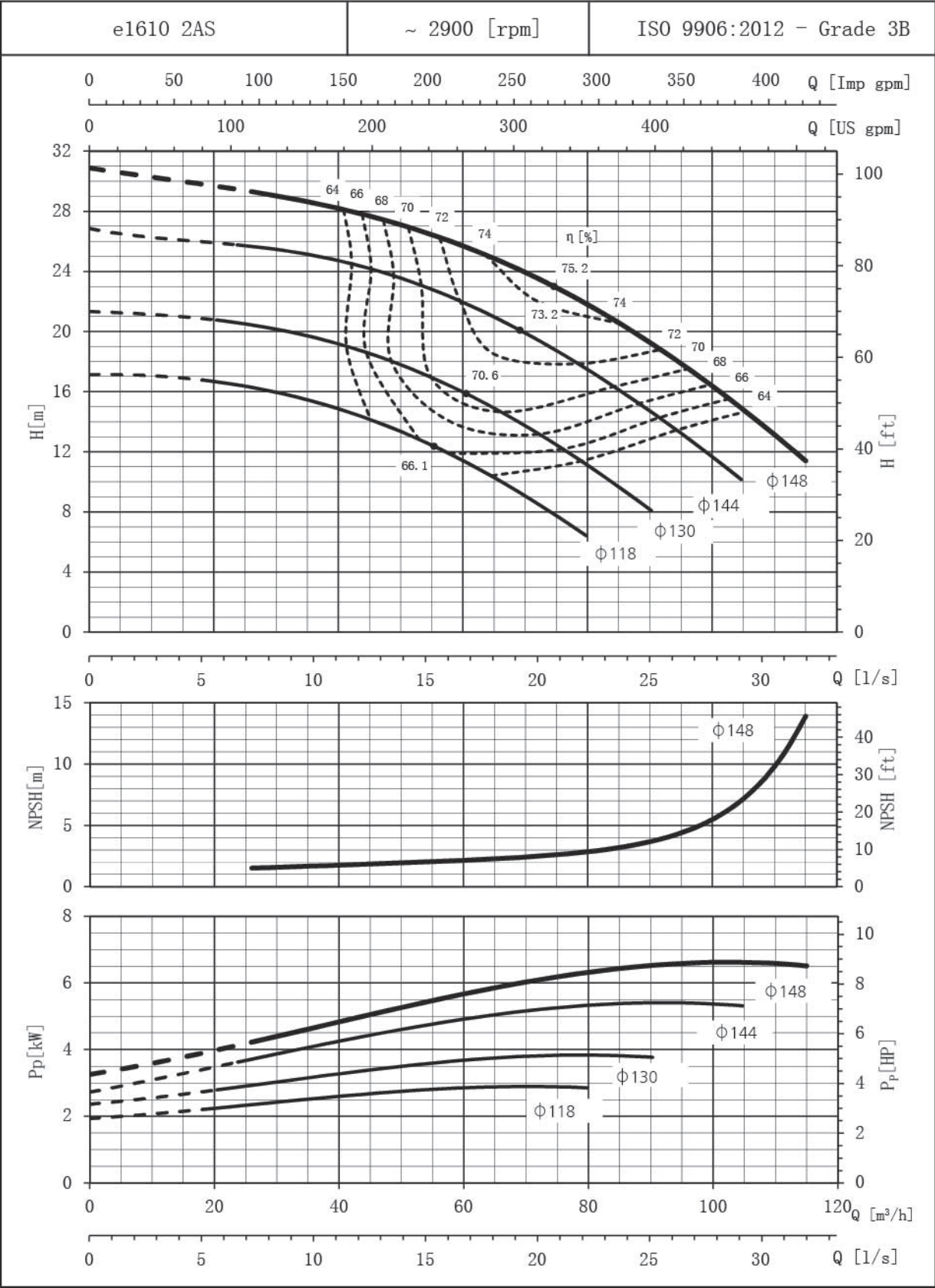
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density P=1.0kg/dm³ and kinematic viscosity v=1mm²/seconel.

e1610 Series Operating characteristics at 50Hz,2Poles



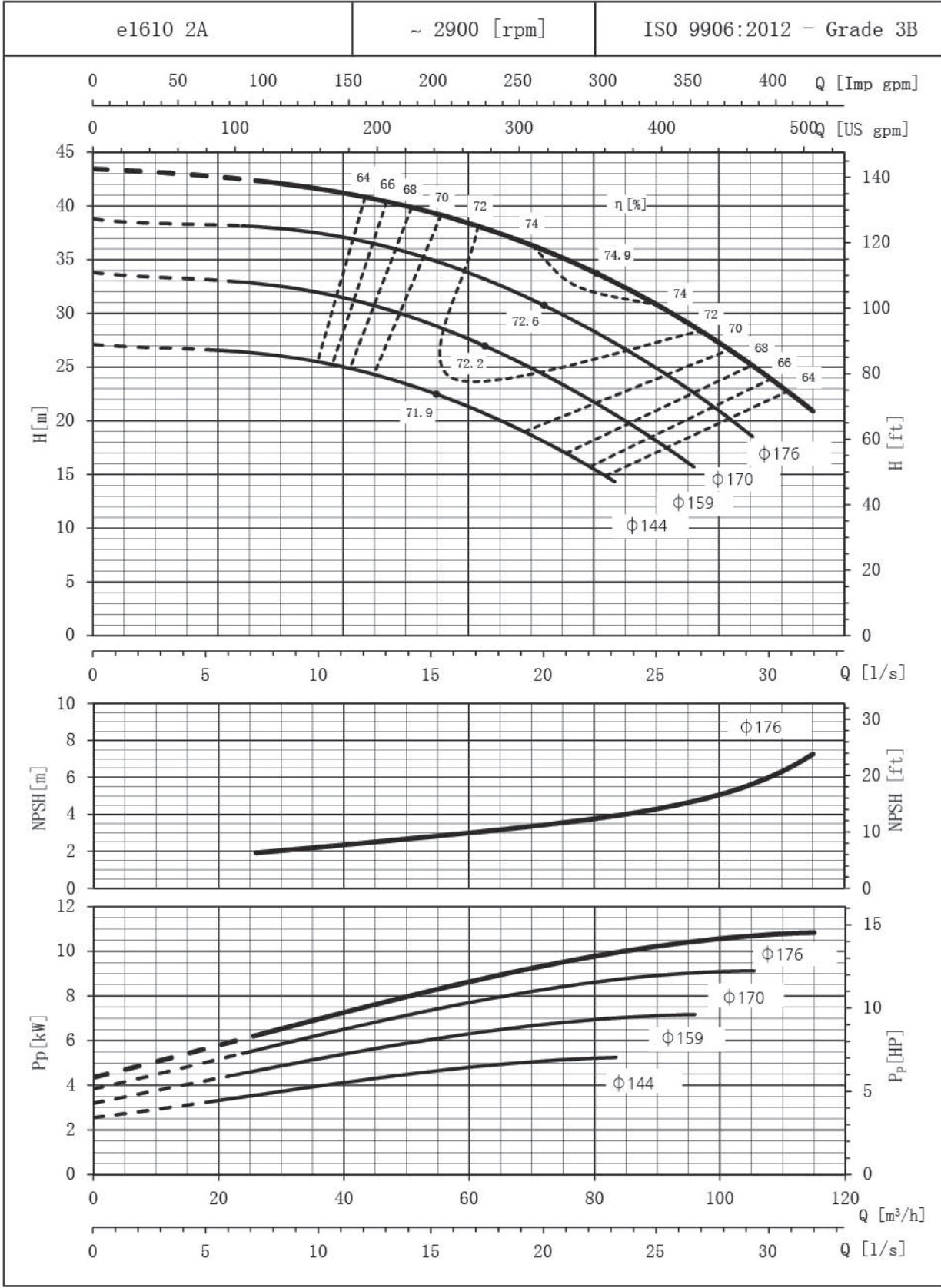
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density P=1.0kg/dm³ and kinematic viscosity v=1mm²/seconel.

e1610 Series Operating characteristics at 50Hz,2Poles



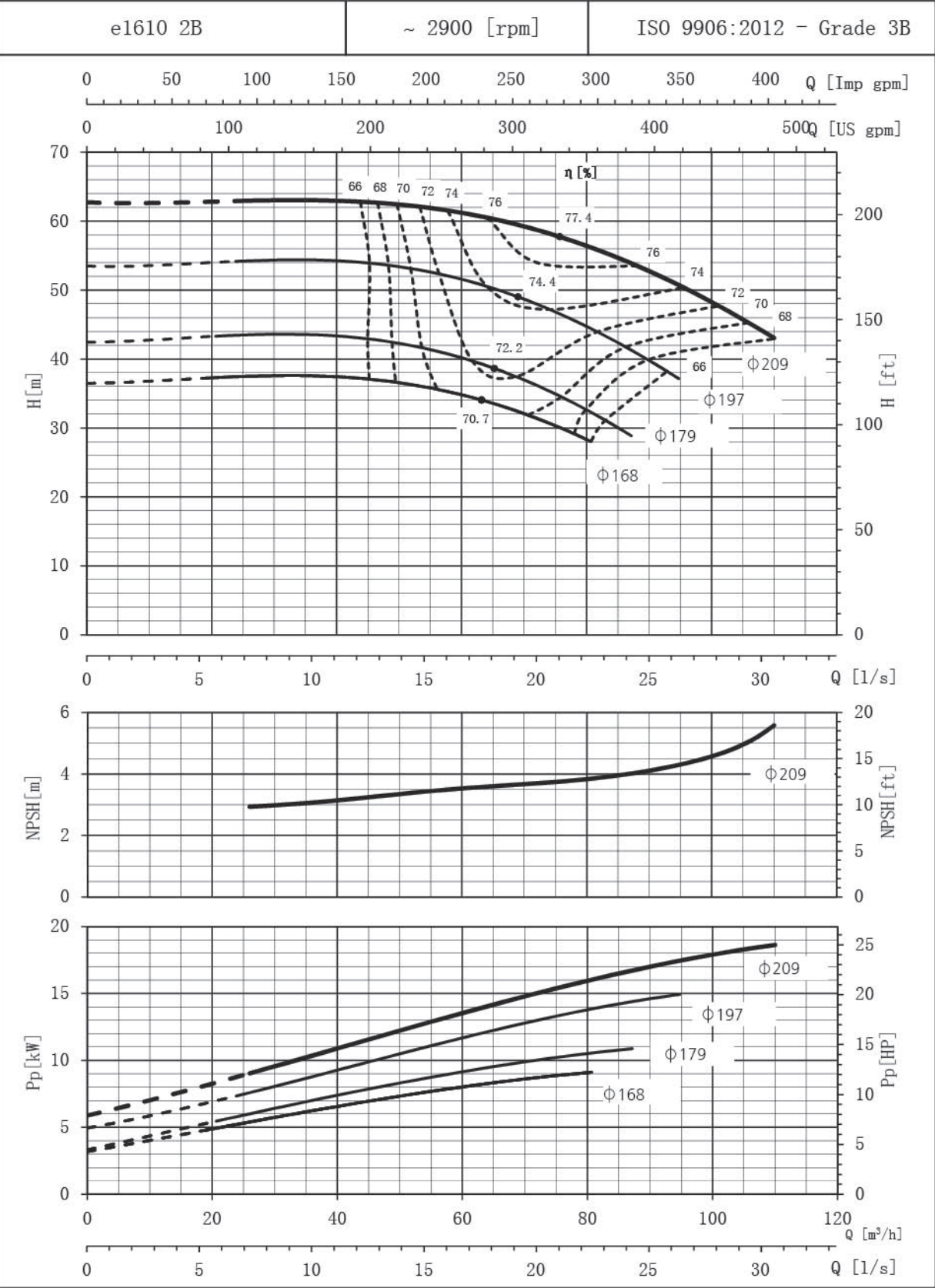
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for liquids with density P=1.0kg/dm³ and kinematic viscosity v=1mm²/seconel.

e1610 Series Operating characteristics at 50Hz,2Poles



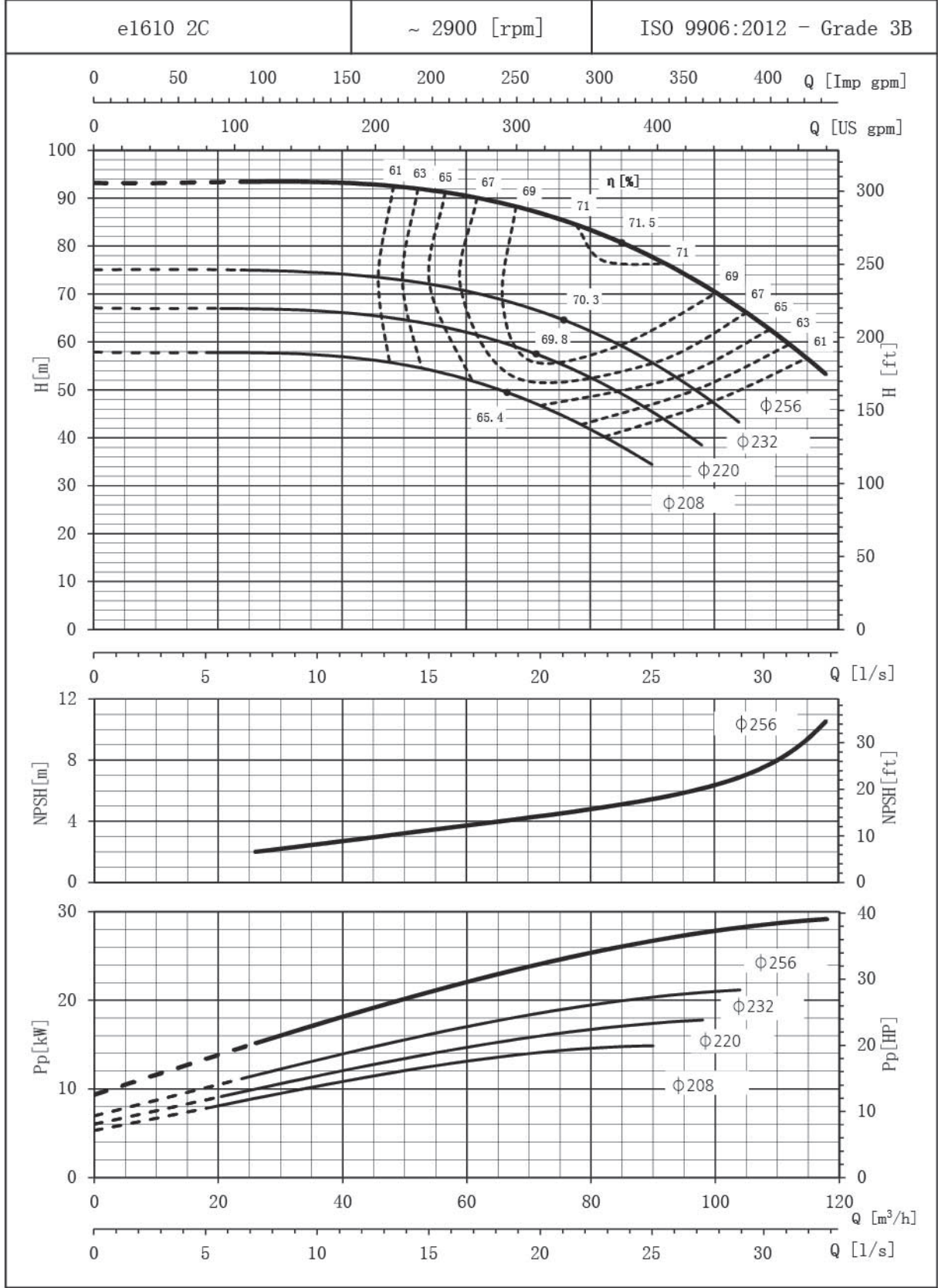
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for liquids with density P=1.0kg/dm³ and kinematic viscosity v=1mm²/seconel.

e1610 Series Operating characteristics at 50Hz,2Poles



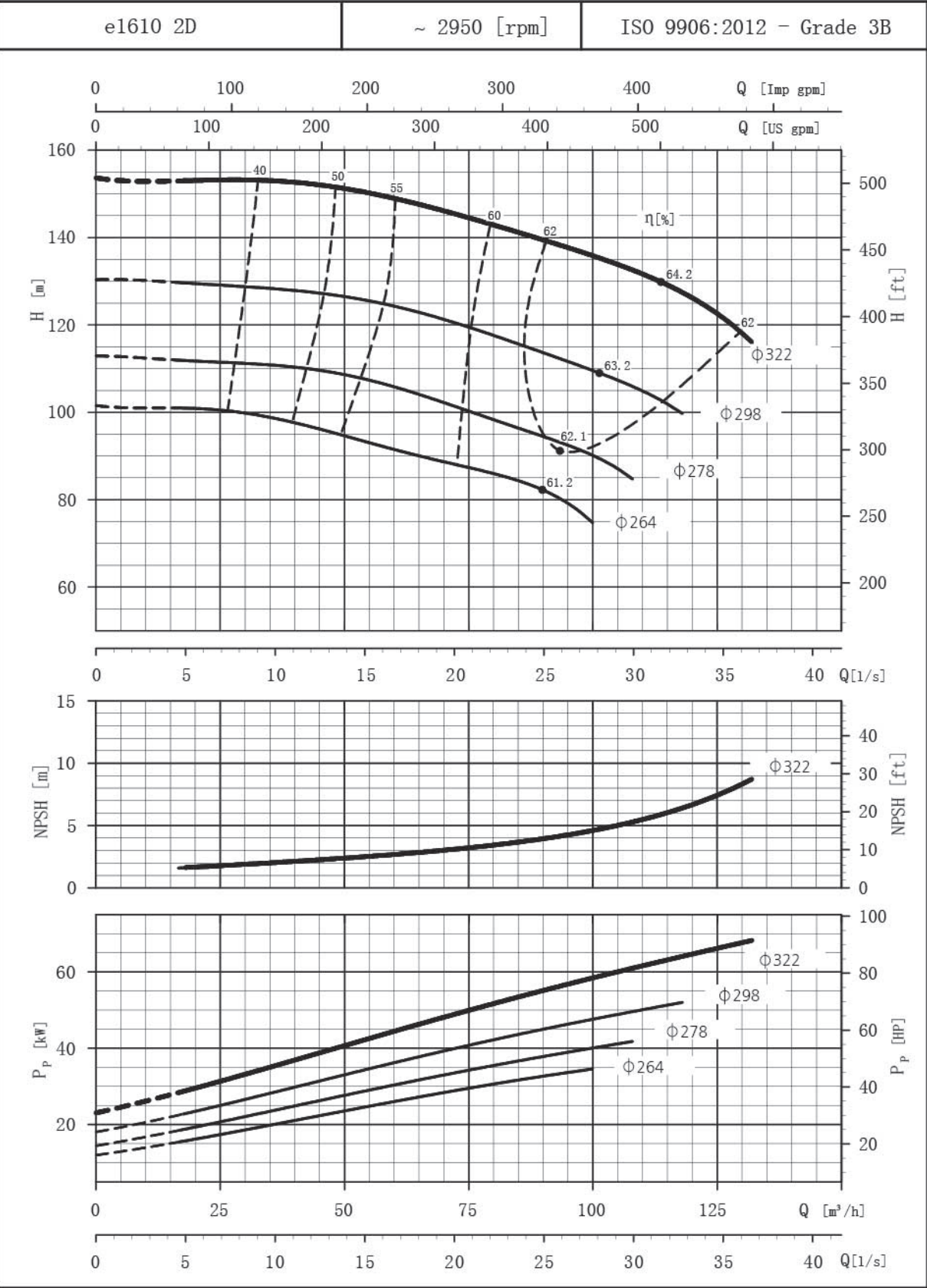
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density P=1.0kg/dm³ and kinematic viscosity v=1mm²/secondel.

e1610 Series Operating characteristics at 50Hz,2Poles



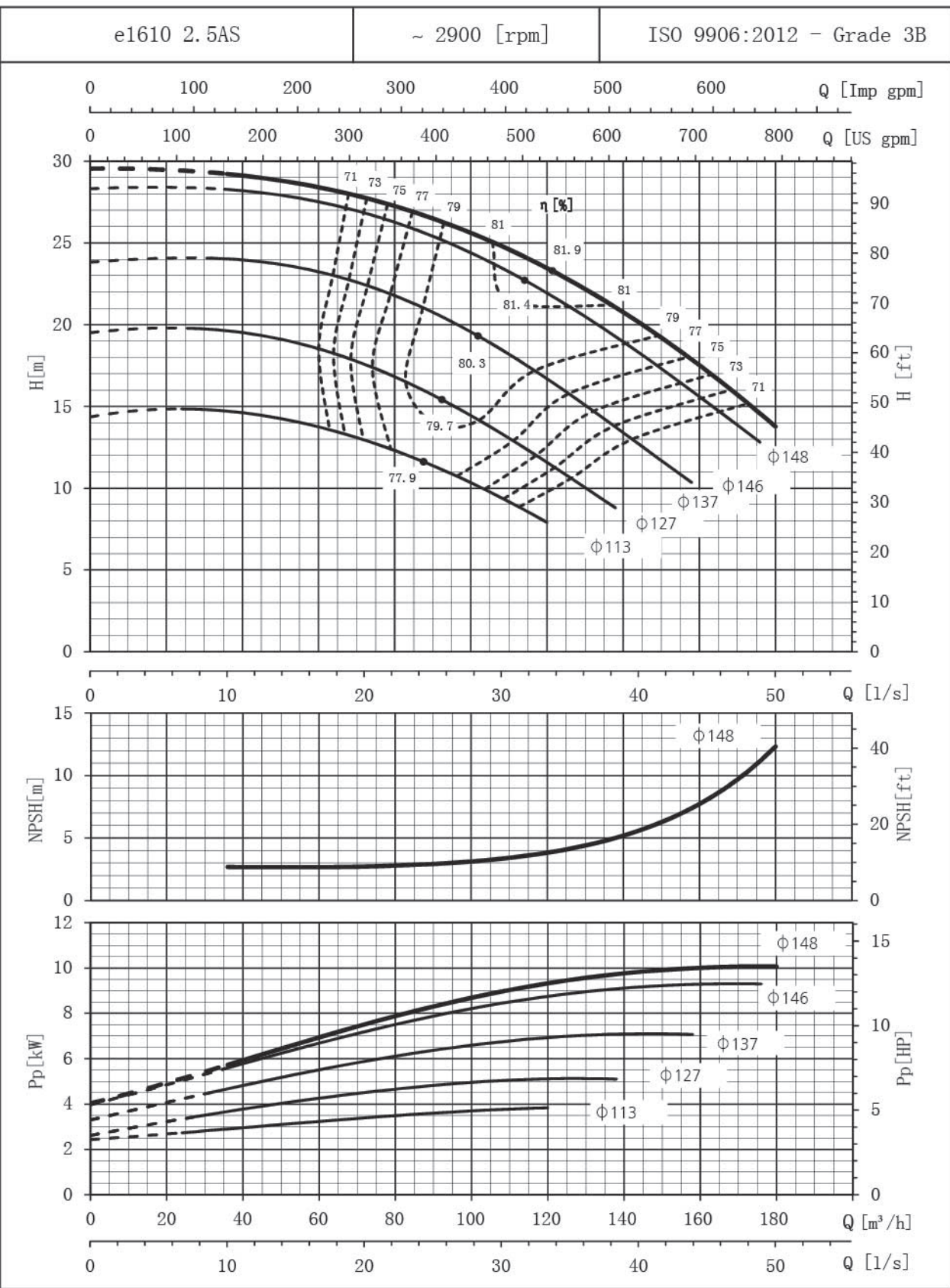
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density P=1.0kg/dm³ and kinematic viscosity v=1mm²/secondel.

e1610 Series Operating characteristics at 50Hz,2Poles



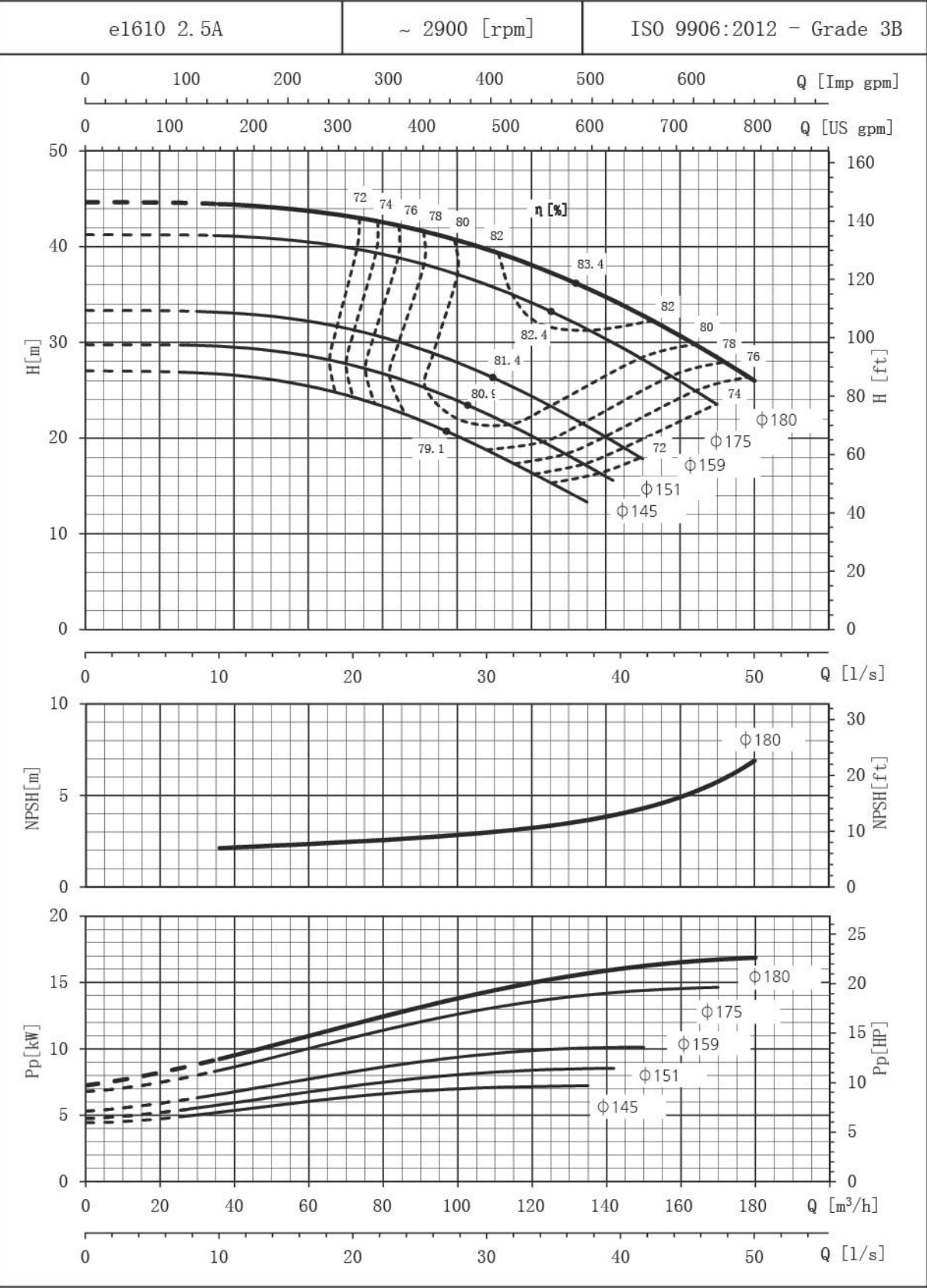
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e1610 Series Operating characteristics at 50Hz,2Poles



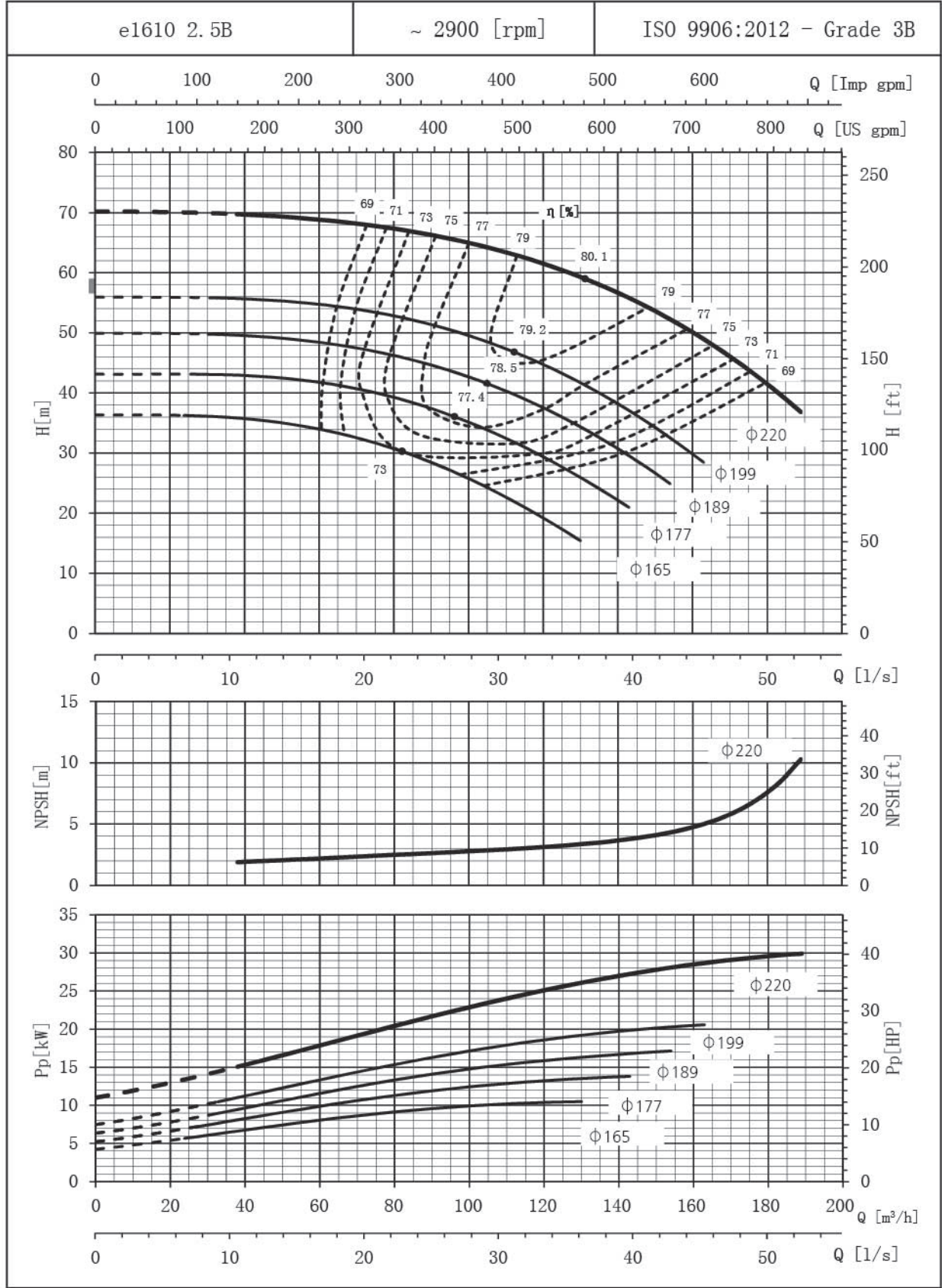
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e1610 Series Operating characteristics at 50Hz,2Poles



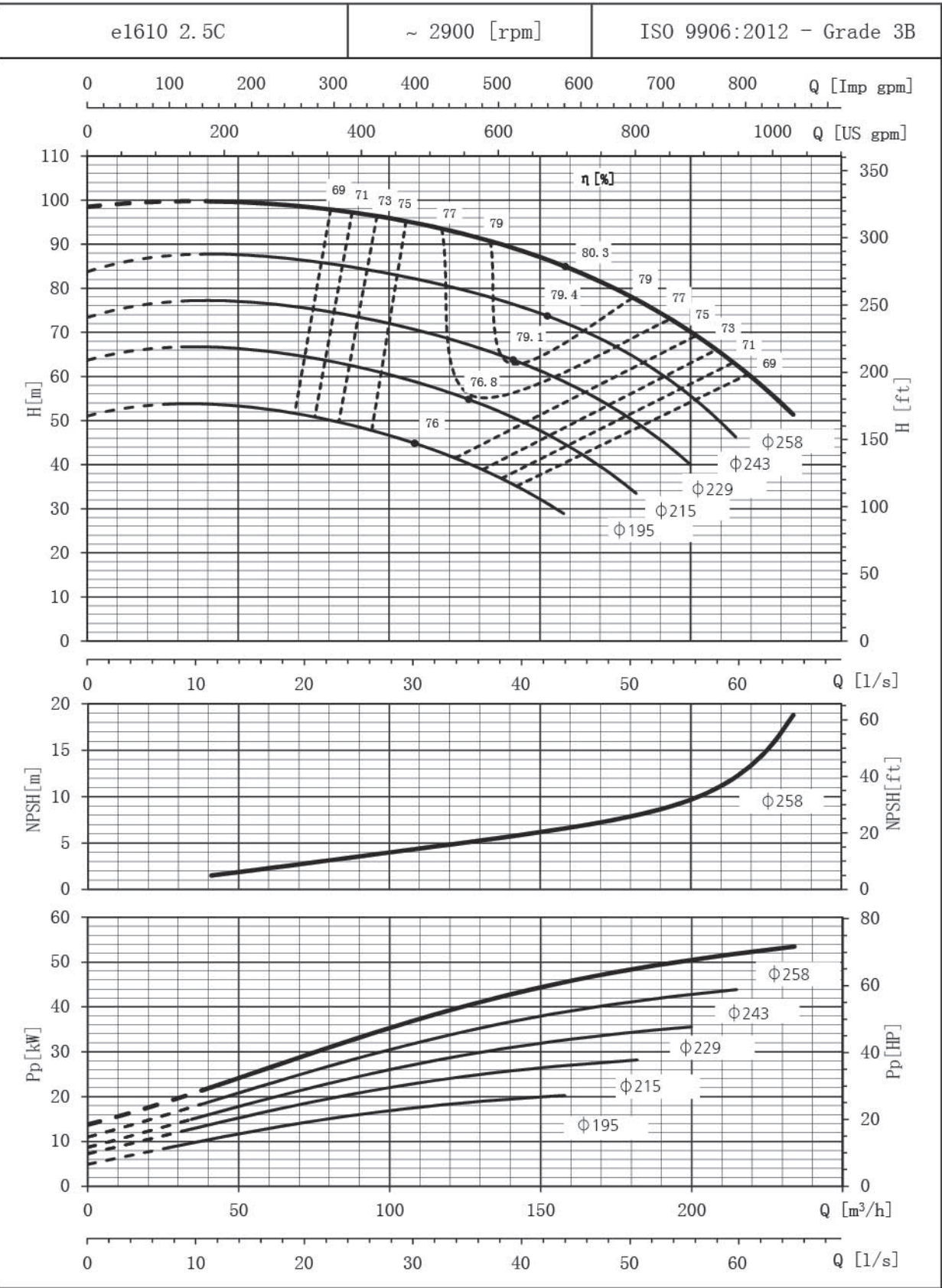
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e1610 Series Operating characteristics at 50Hz,2Poles



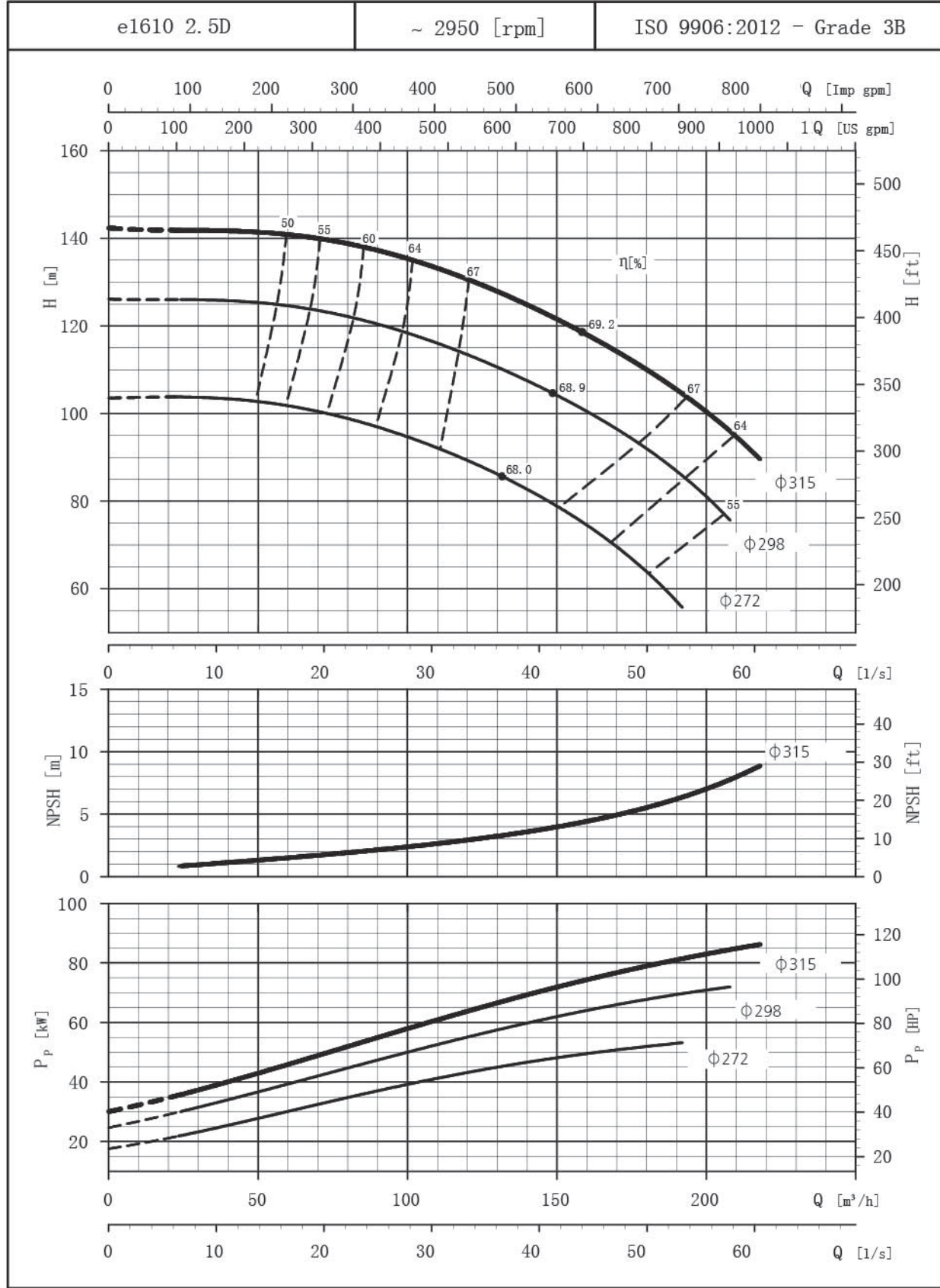
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e1610 Series Operating characteristics at 50Hz,2Poles



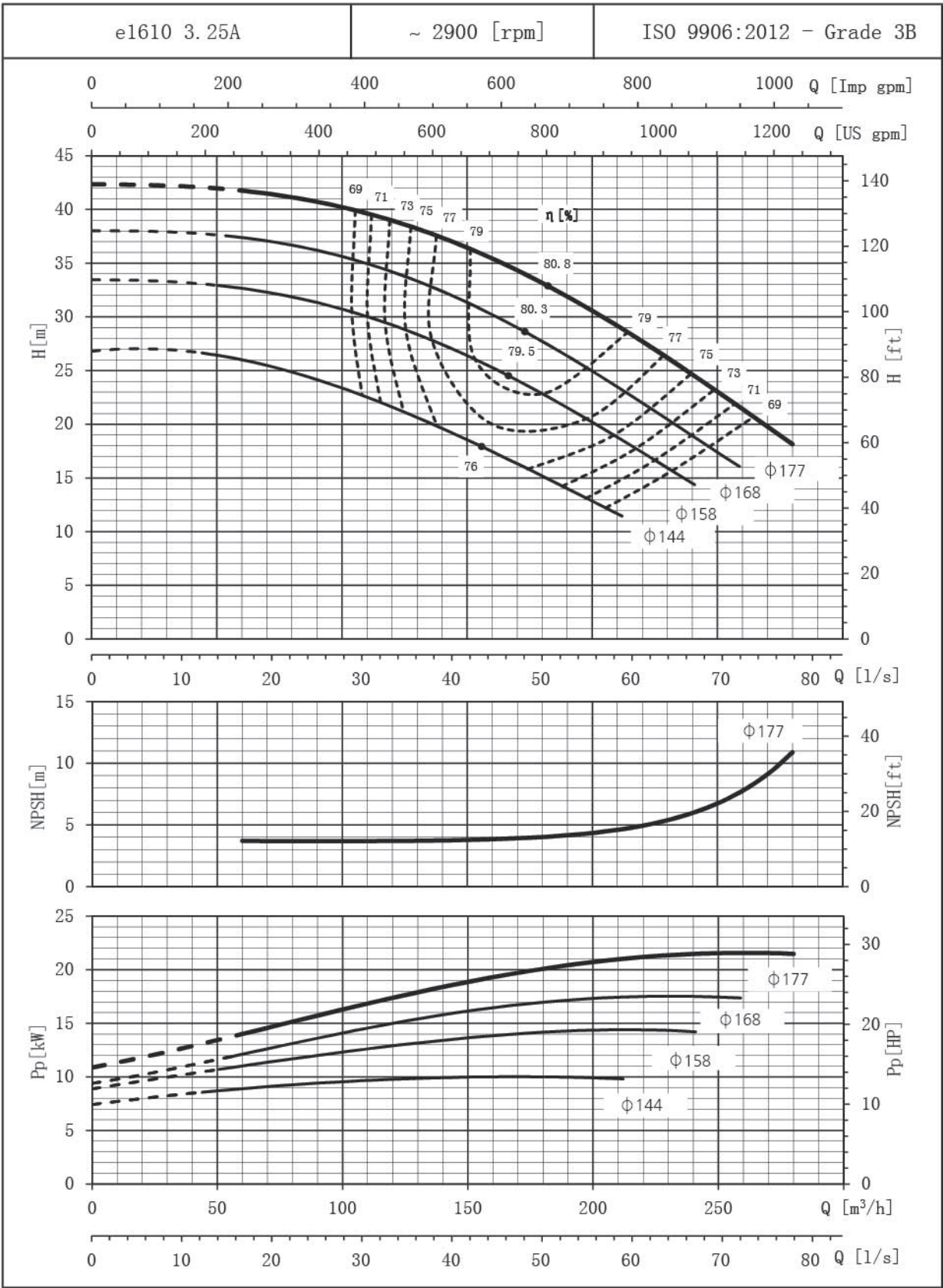
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e1610 Series Operating characteristics at 50Hz,2Poles



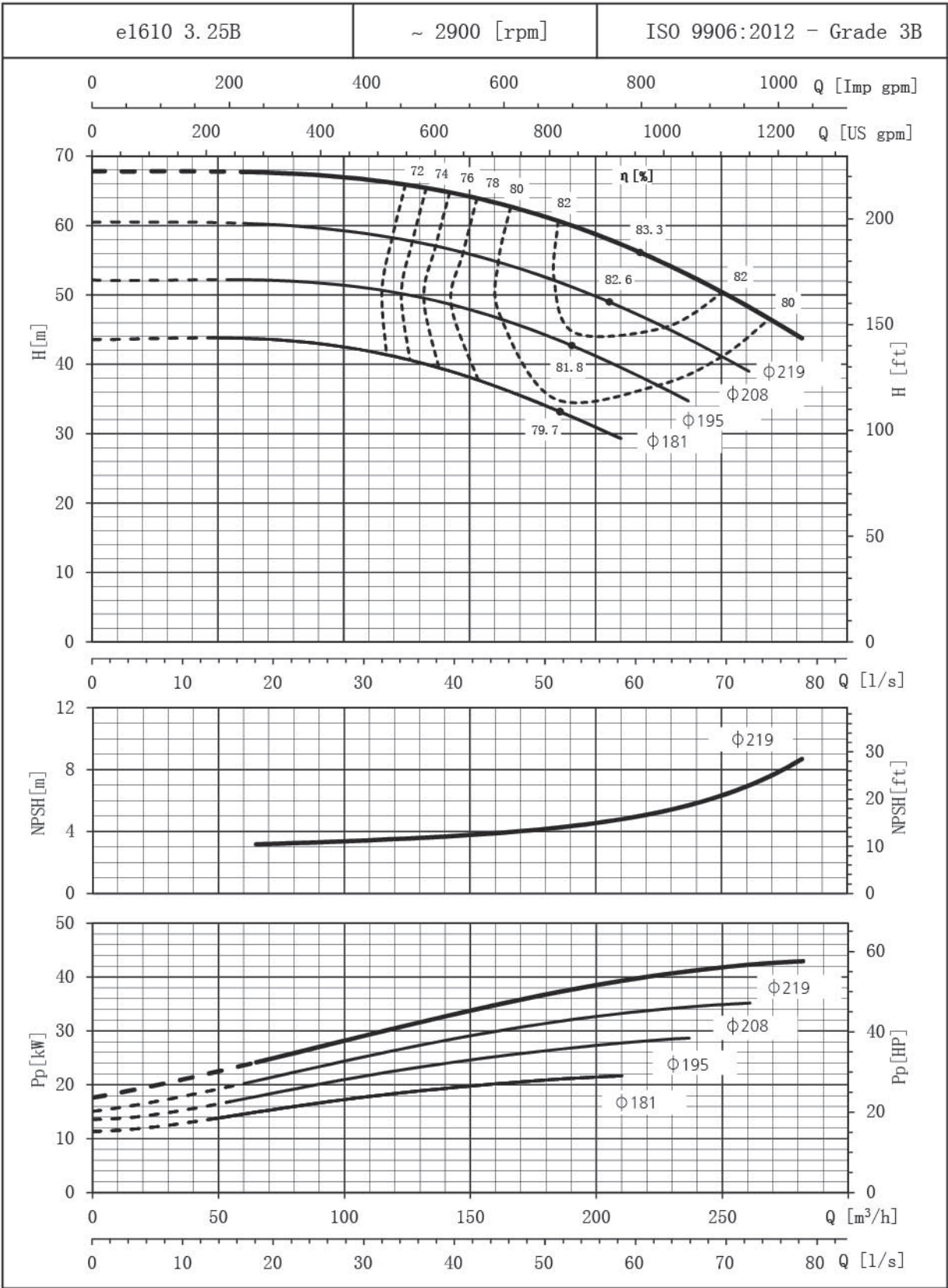
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e1610 Series Operating characteristics at 50Hz,2Poles



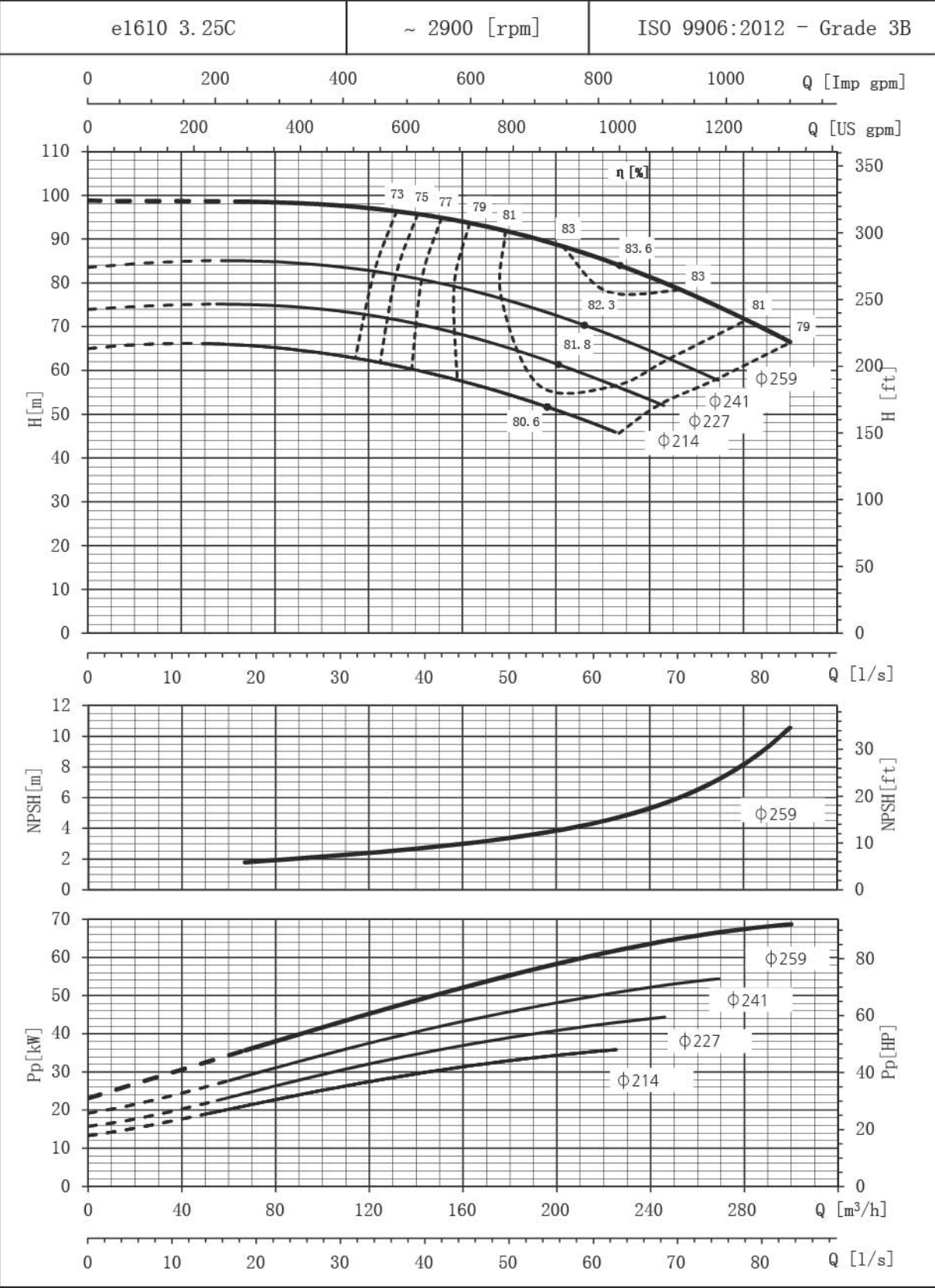
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e1610 Series Operating characteristics at 50Hz,2Poles



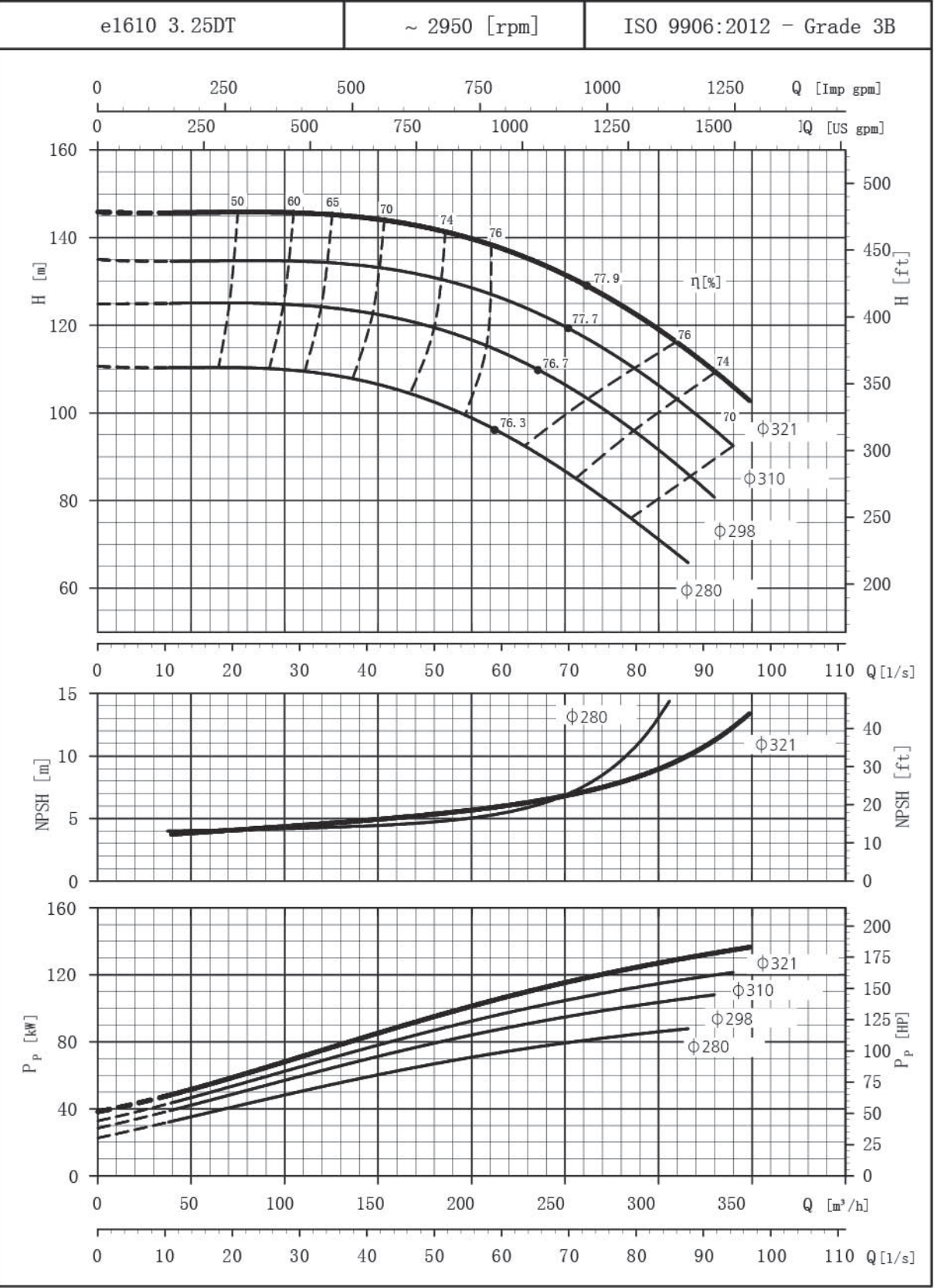
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e1610 Series Operating characteristics at 50Hz,2Poles



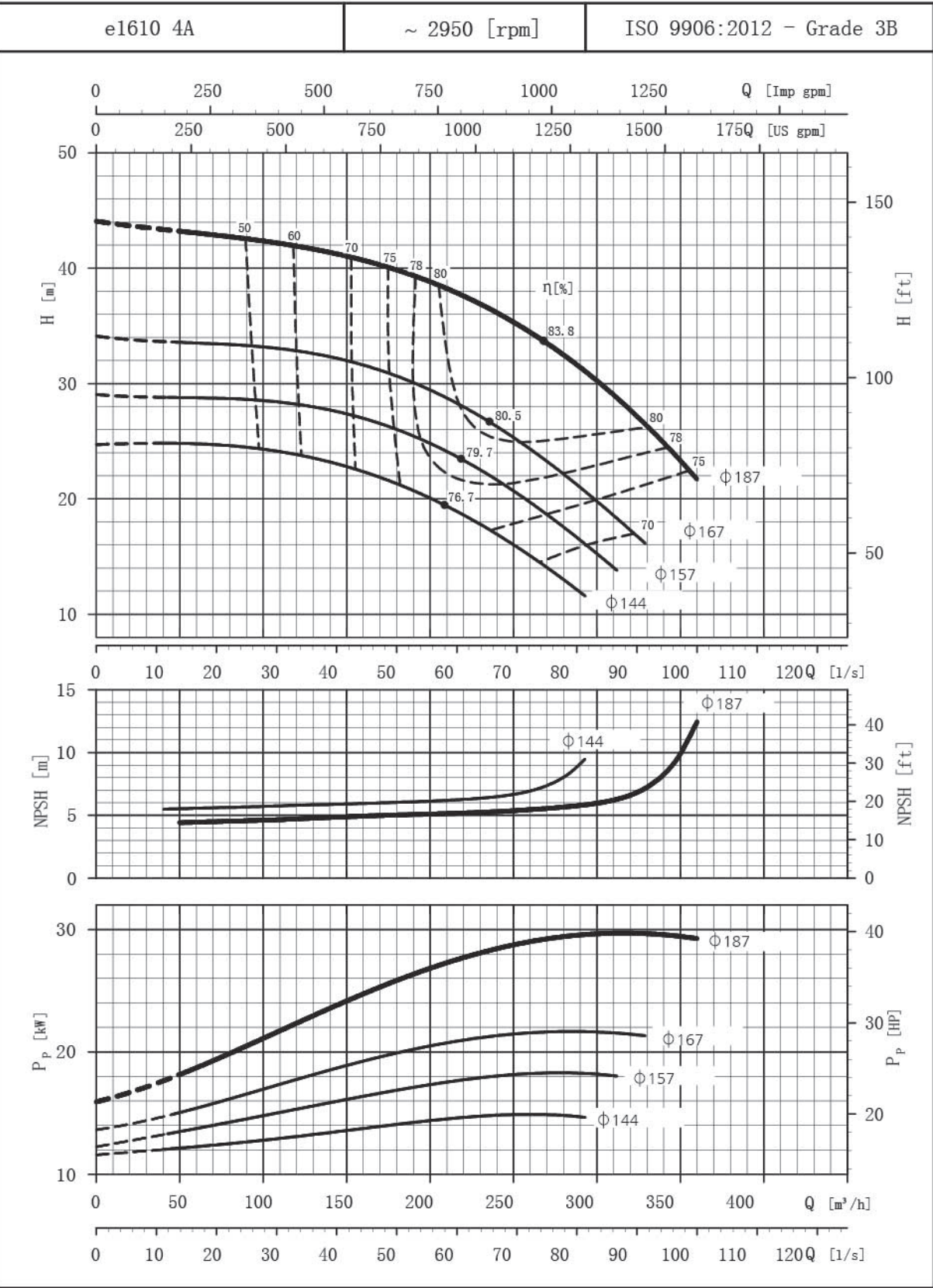
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e1610 Series Operating characteristics at 50Hz,2Poles



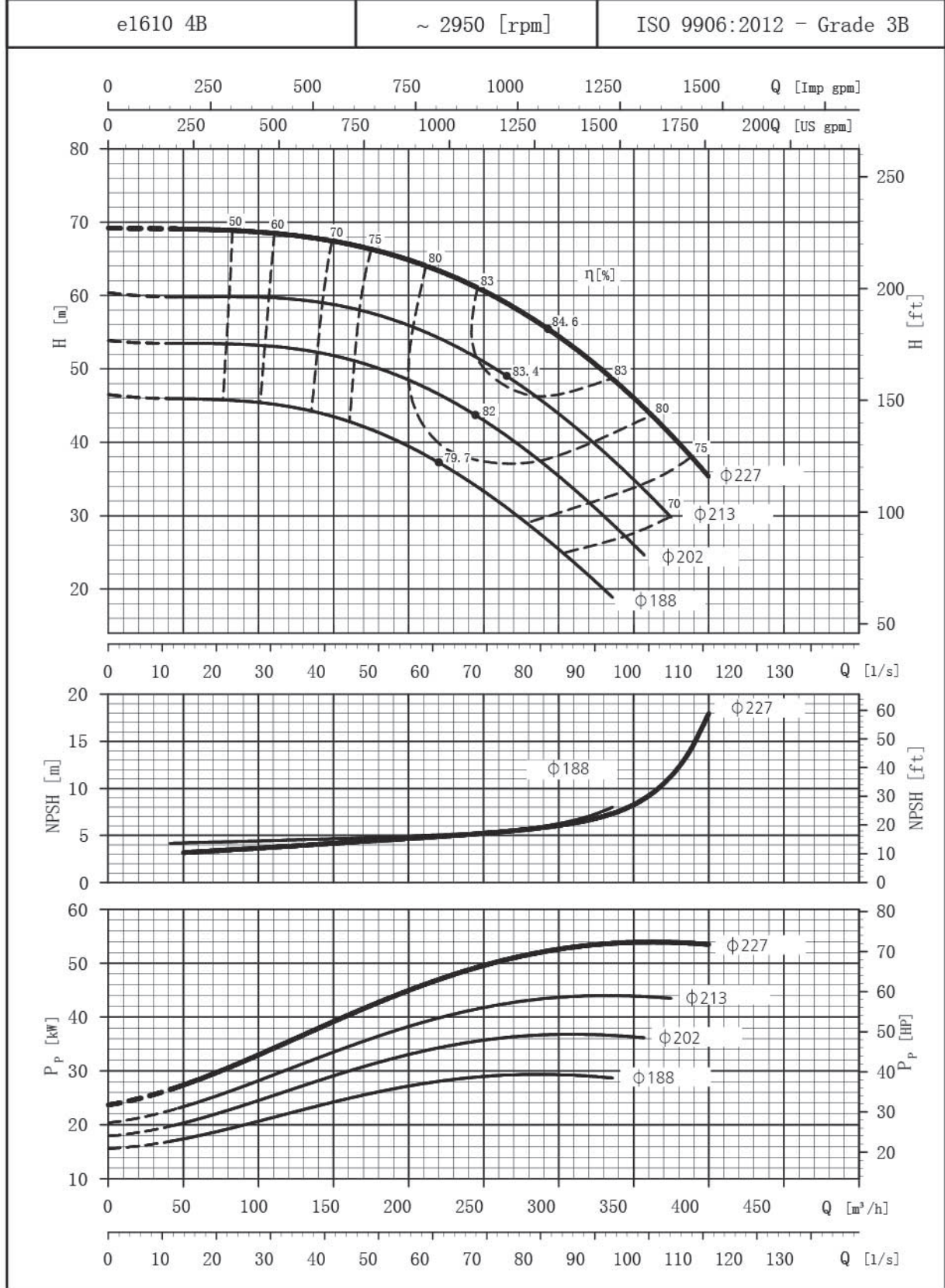
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e1610 Series Operating characteristics at 50Hz,2Poles



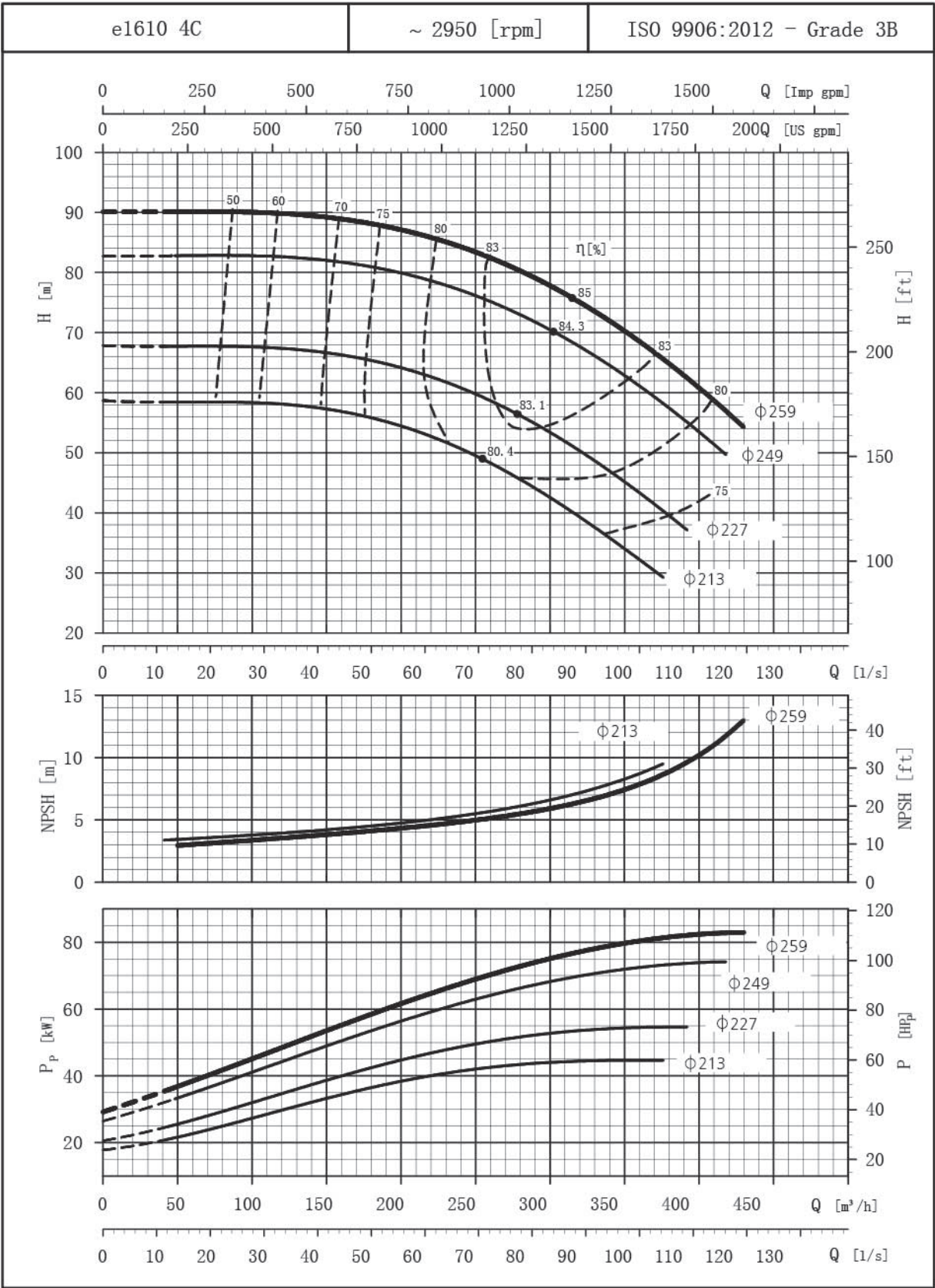
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e1610 Series Operating characteristics at 50Hz,2Poles



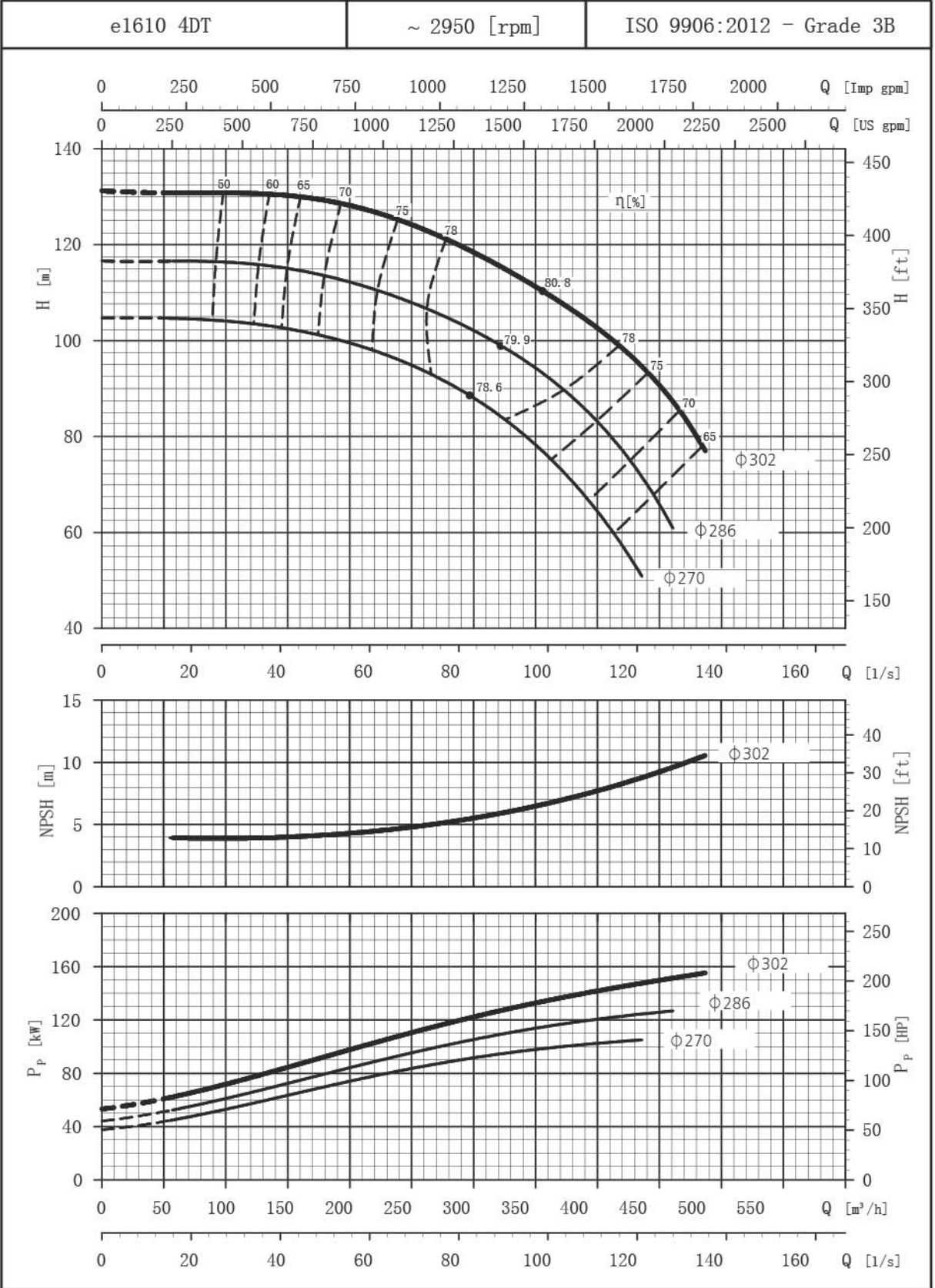
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e1610 Series Operating characteristics at 50Hz,2Poles



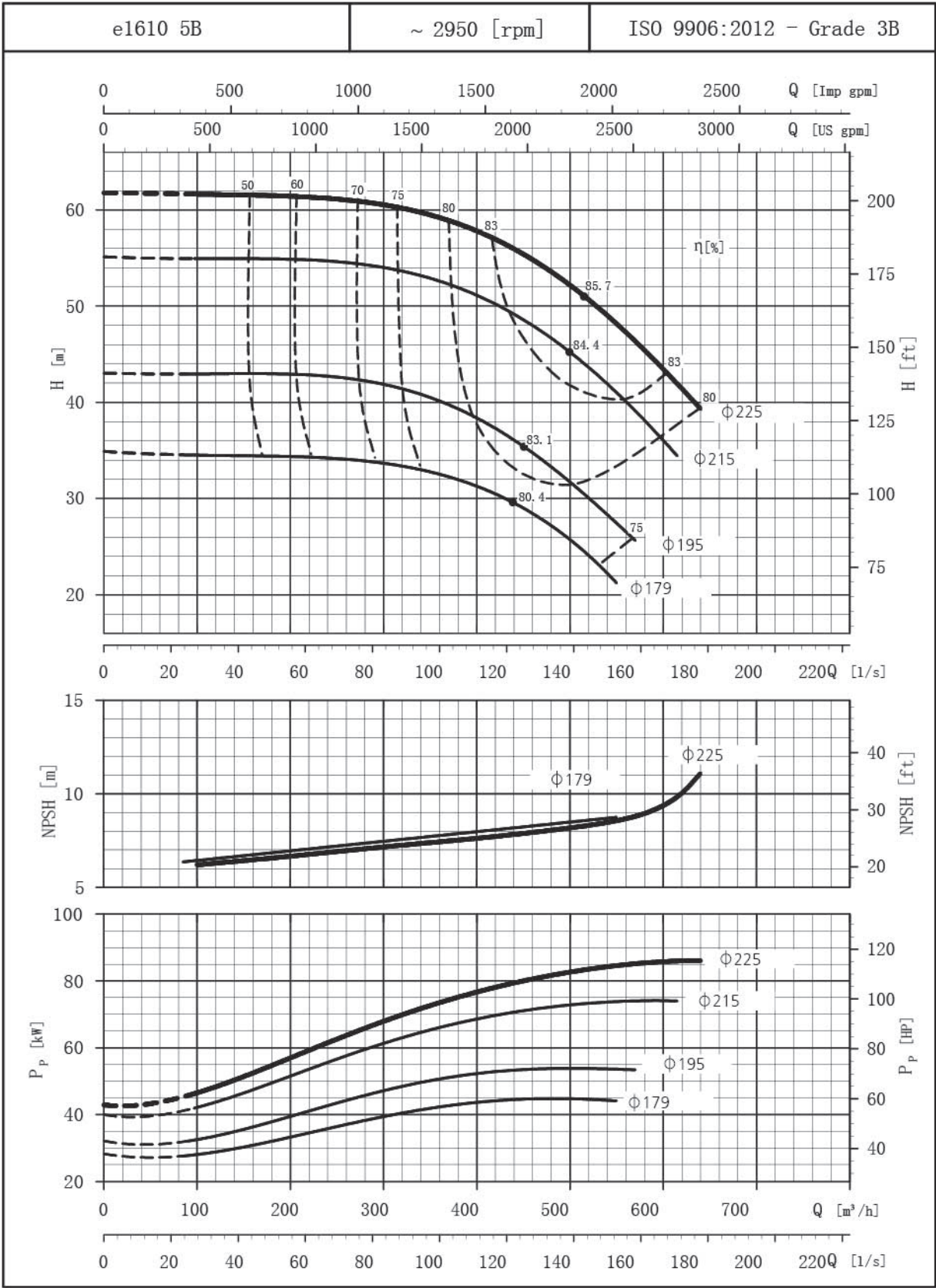
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e1610 Series Operating characteristics at 50Hz,2Poles



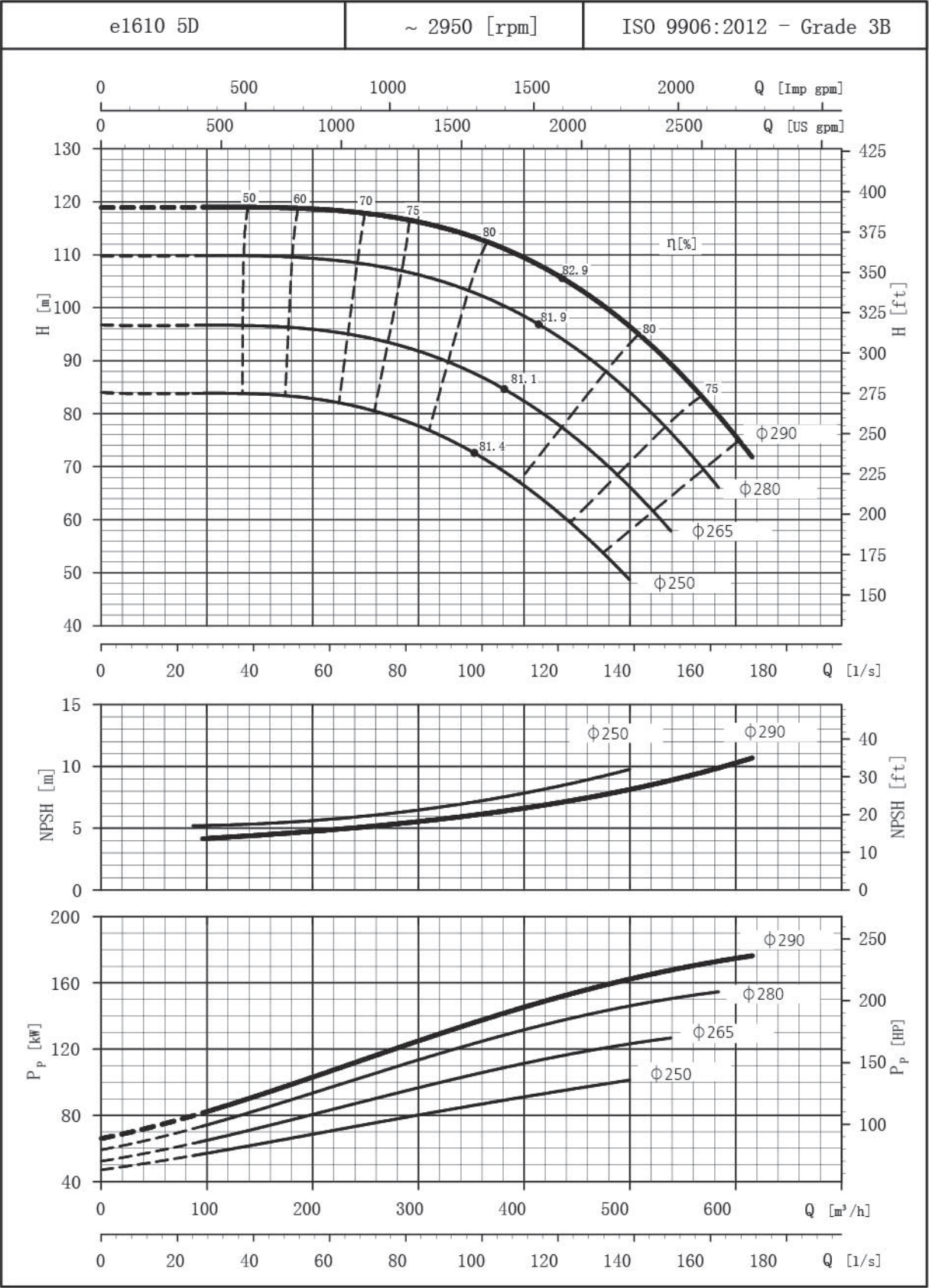
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e1610 Series Operating characteristics at 50Hz,2Poles



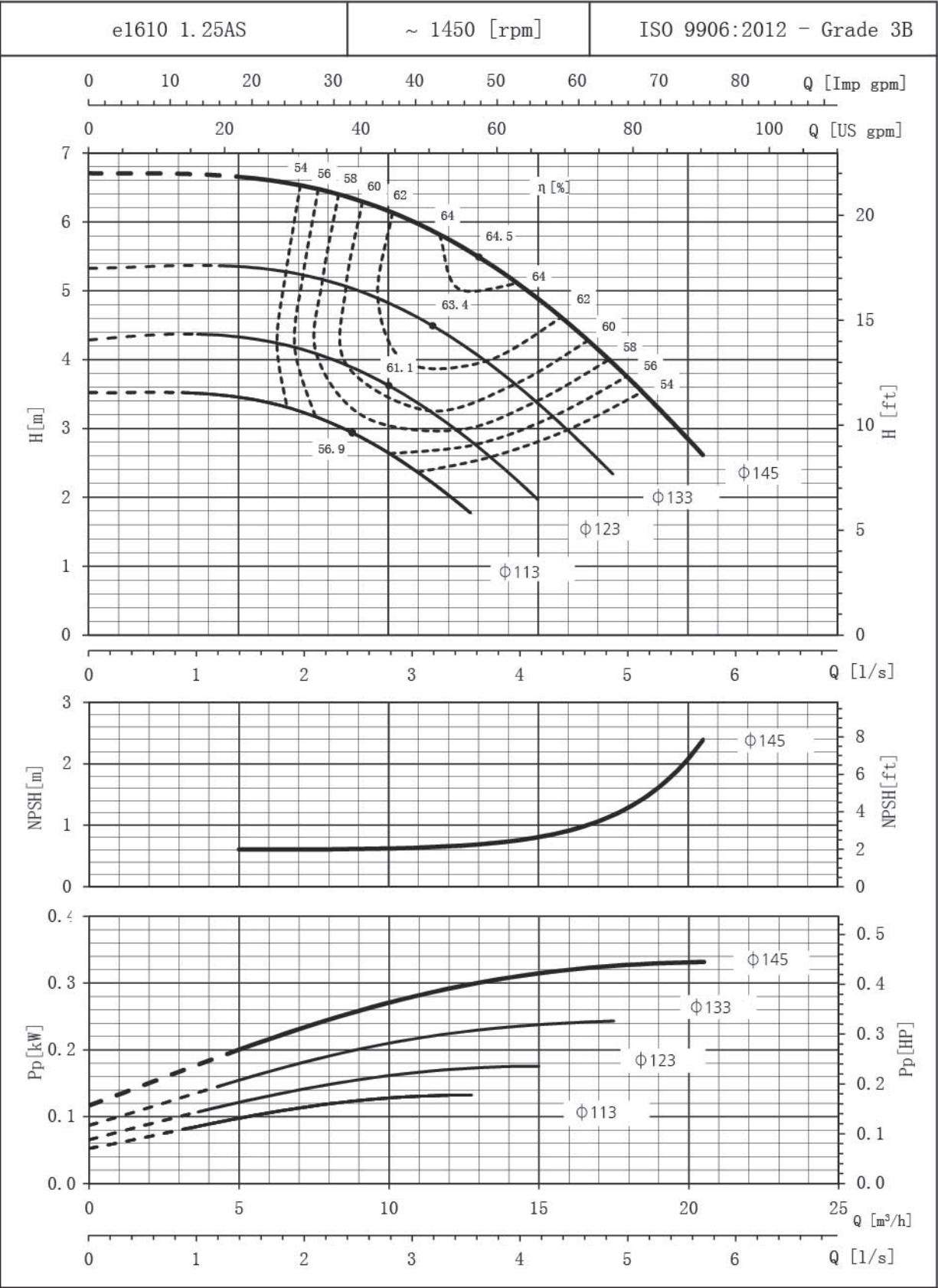
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e1610 Series Operating characteristics at 50Hz,2Poles



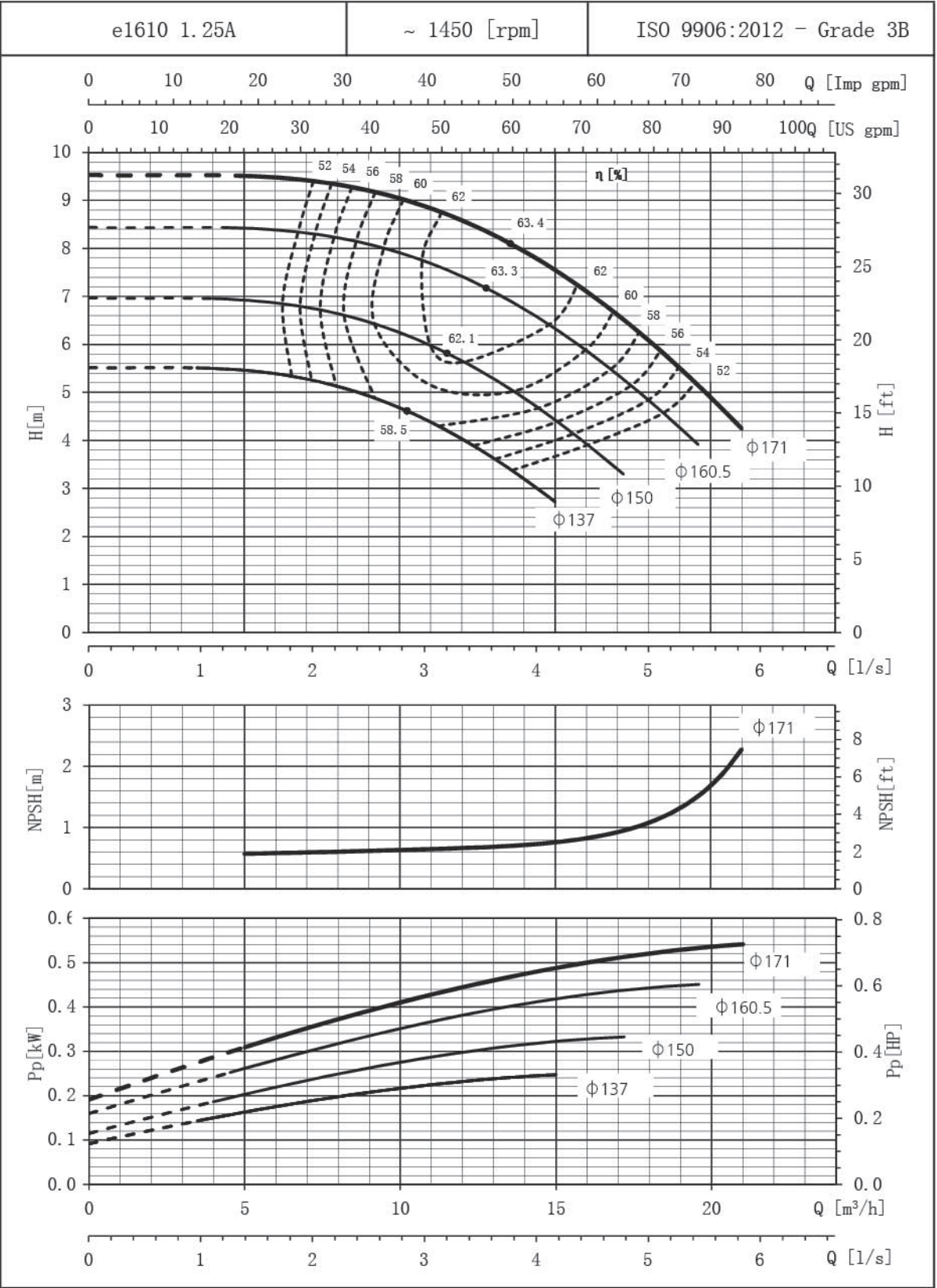
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e1610 Series Operating characteristics at 50Hz,4Poles



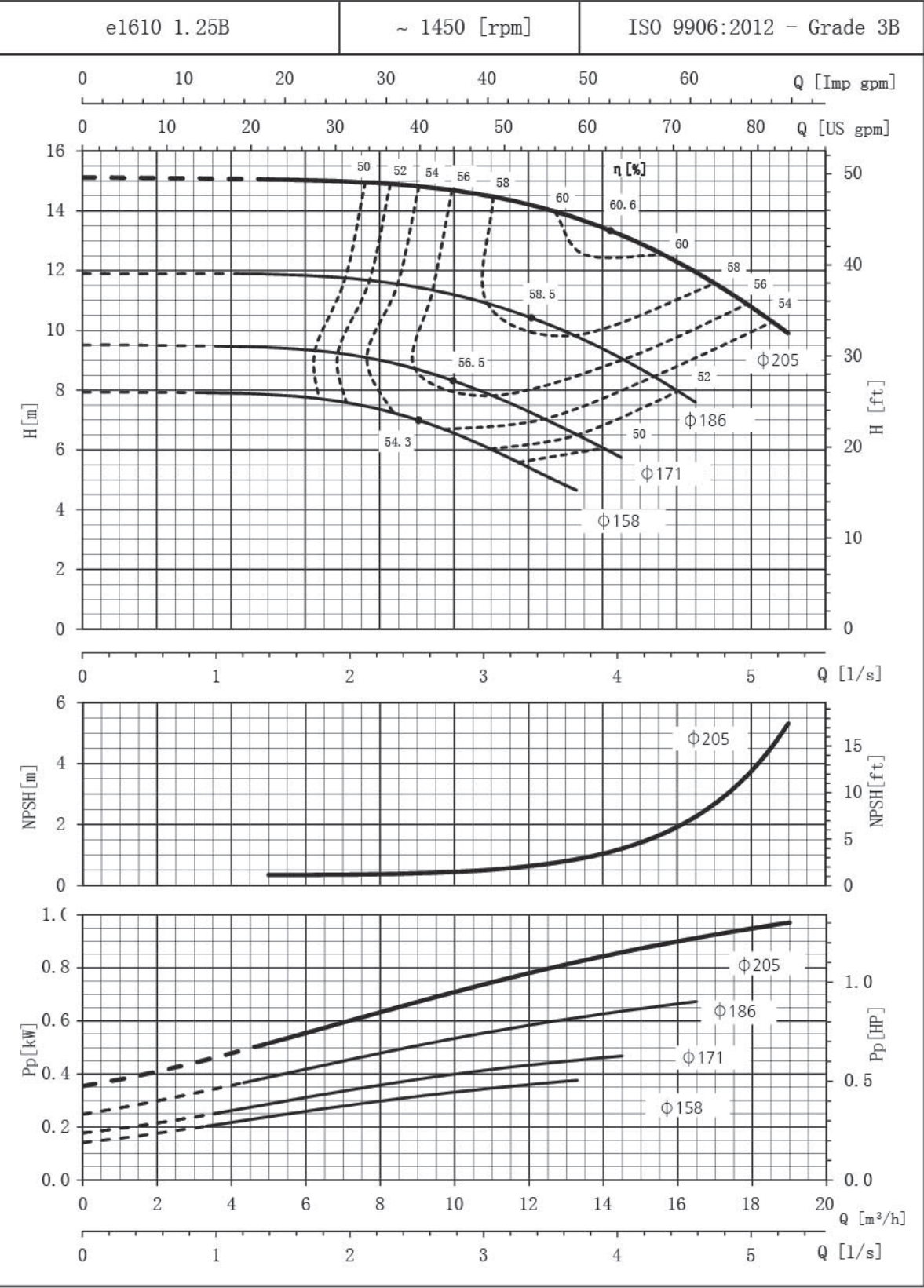
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e1610 Series Operating characteristics at 50Hz,4Poles



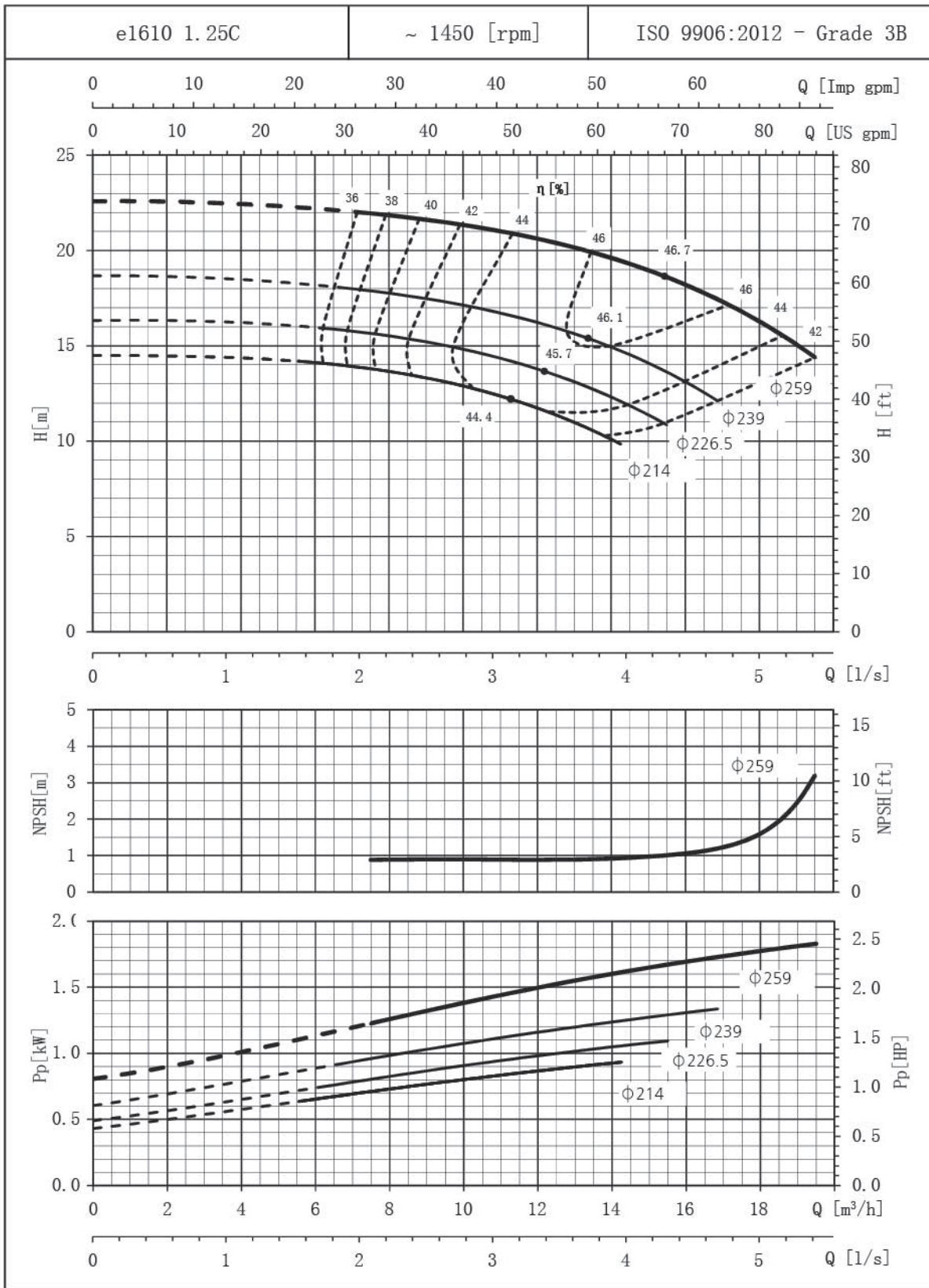
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e1610 Series Operating characteristics at 50Hz,4Poles



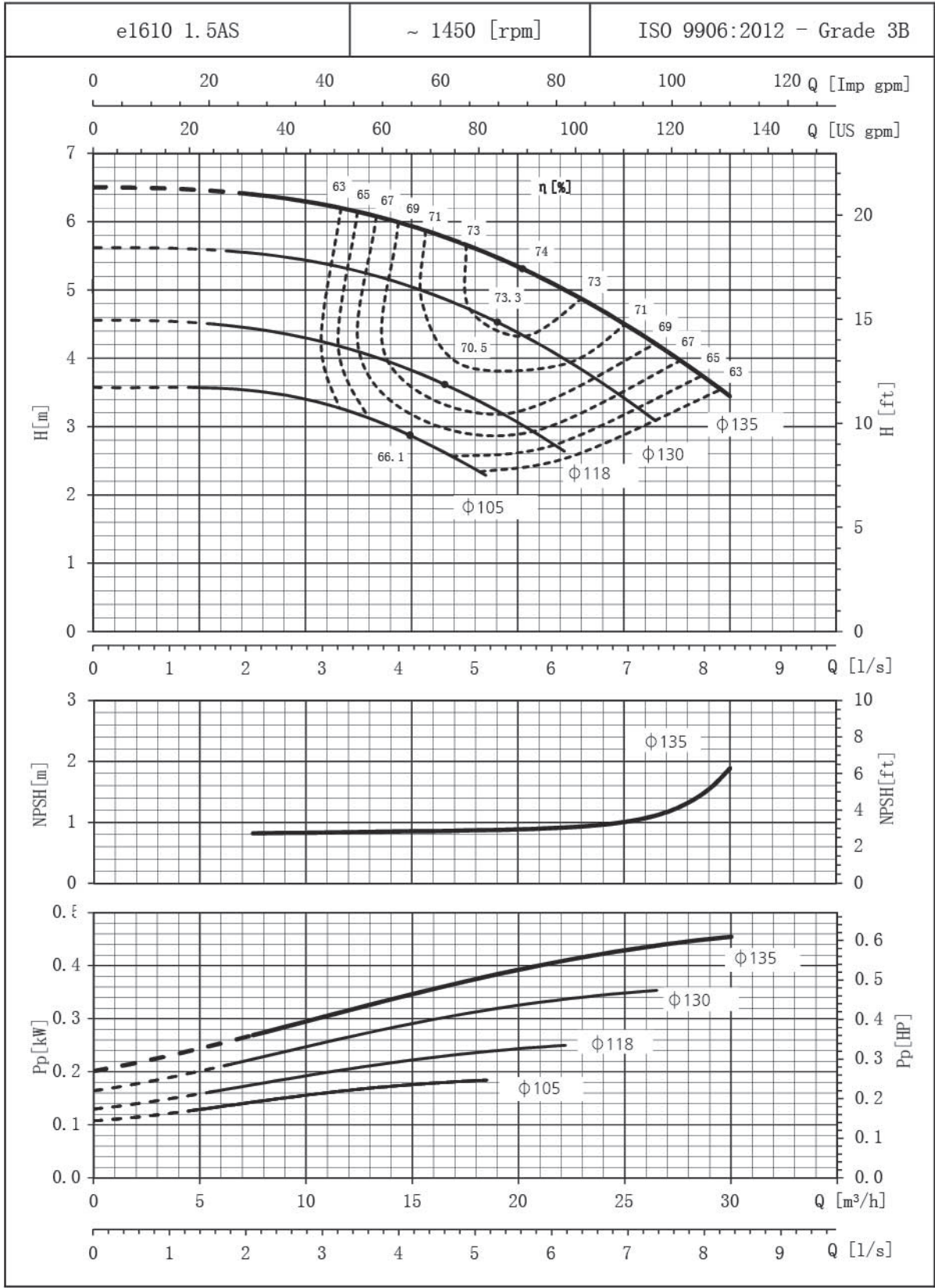
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e1610 Series Operating characteristics at 50Hz,4Poles



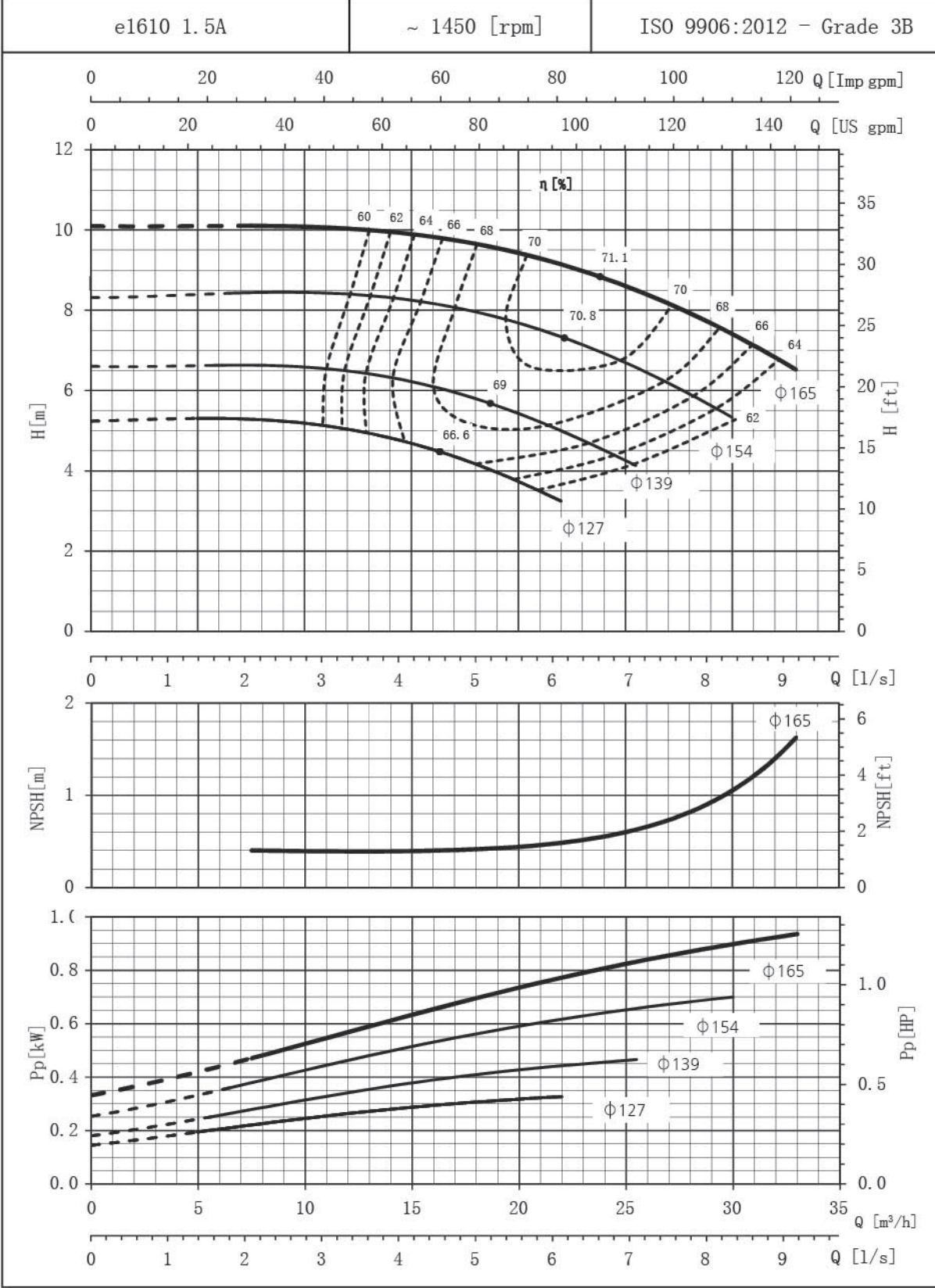
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e1610 Series Operating characteristics at 50Hz,4Poles



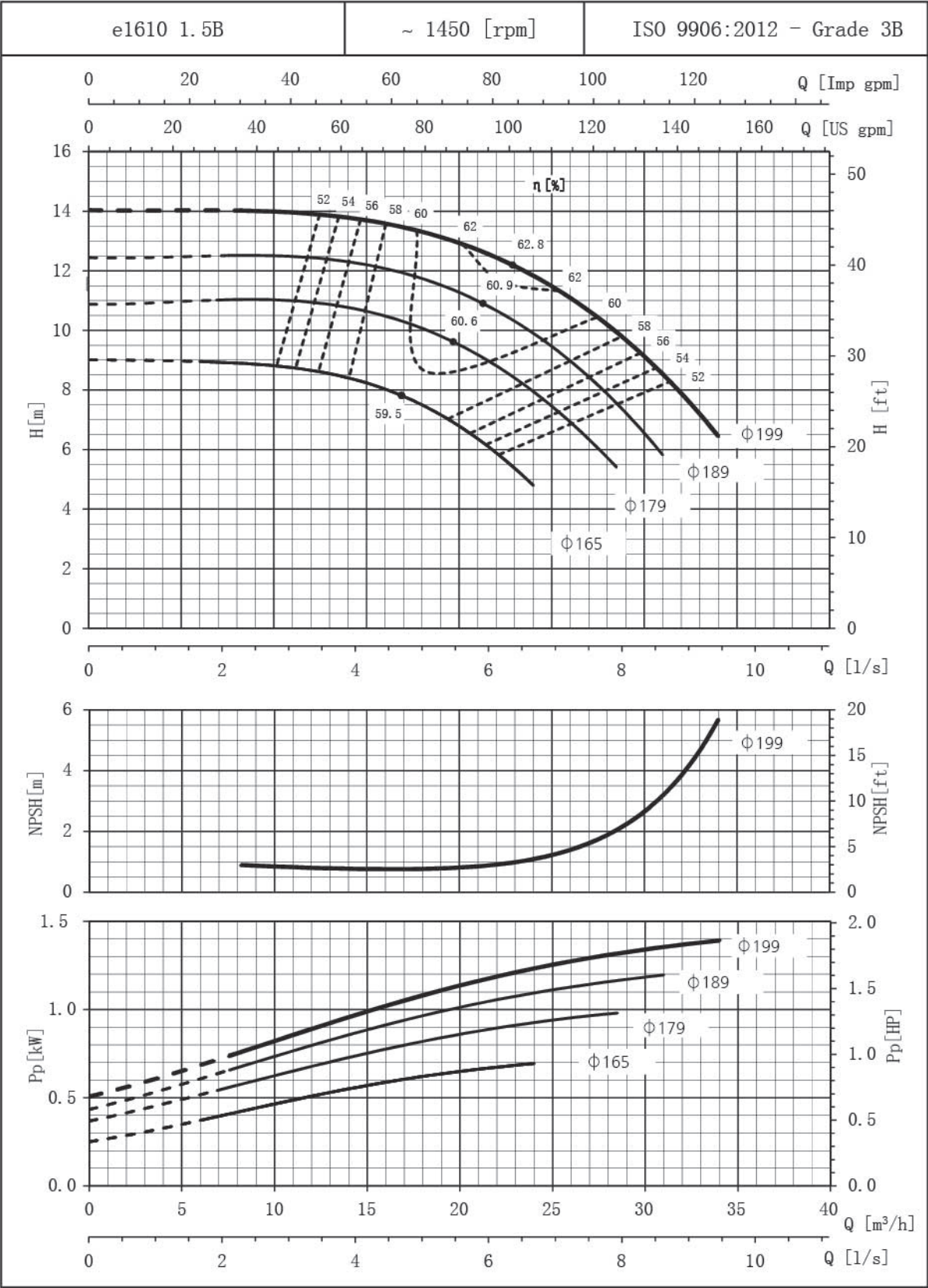
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e1610 Series Operating characteristics at 50Hz,4Poles



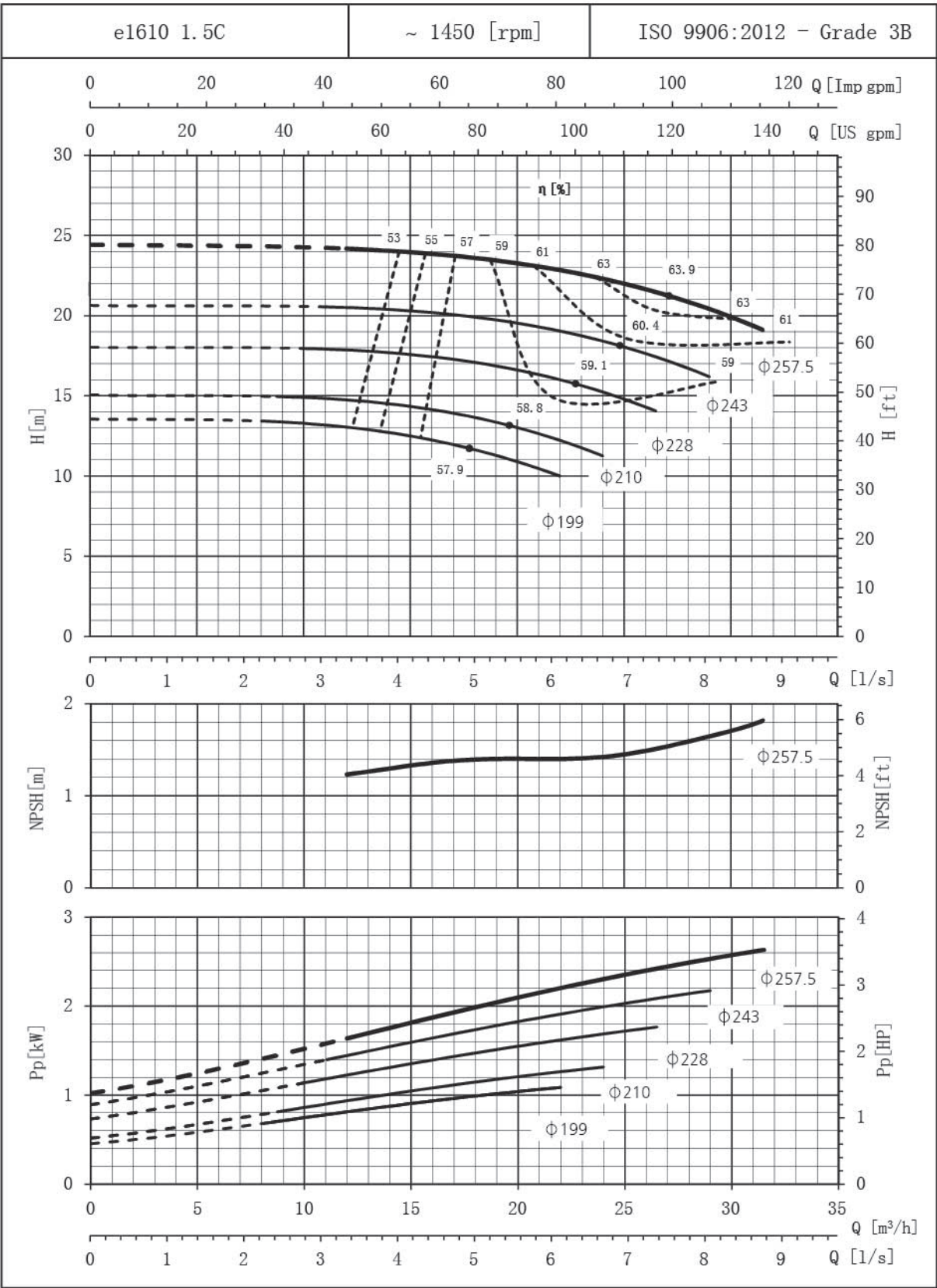
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e1610 Series Operating characteristics at 50Hz,4Poles



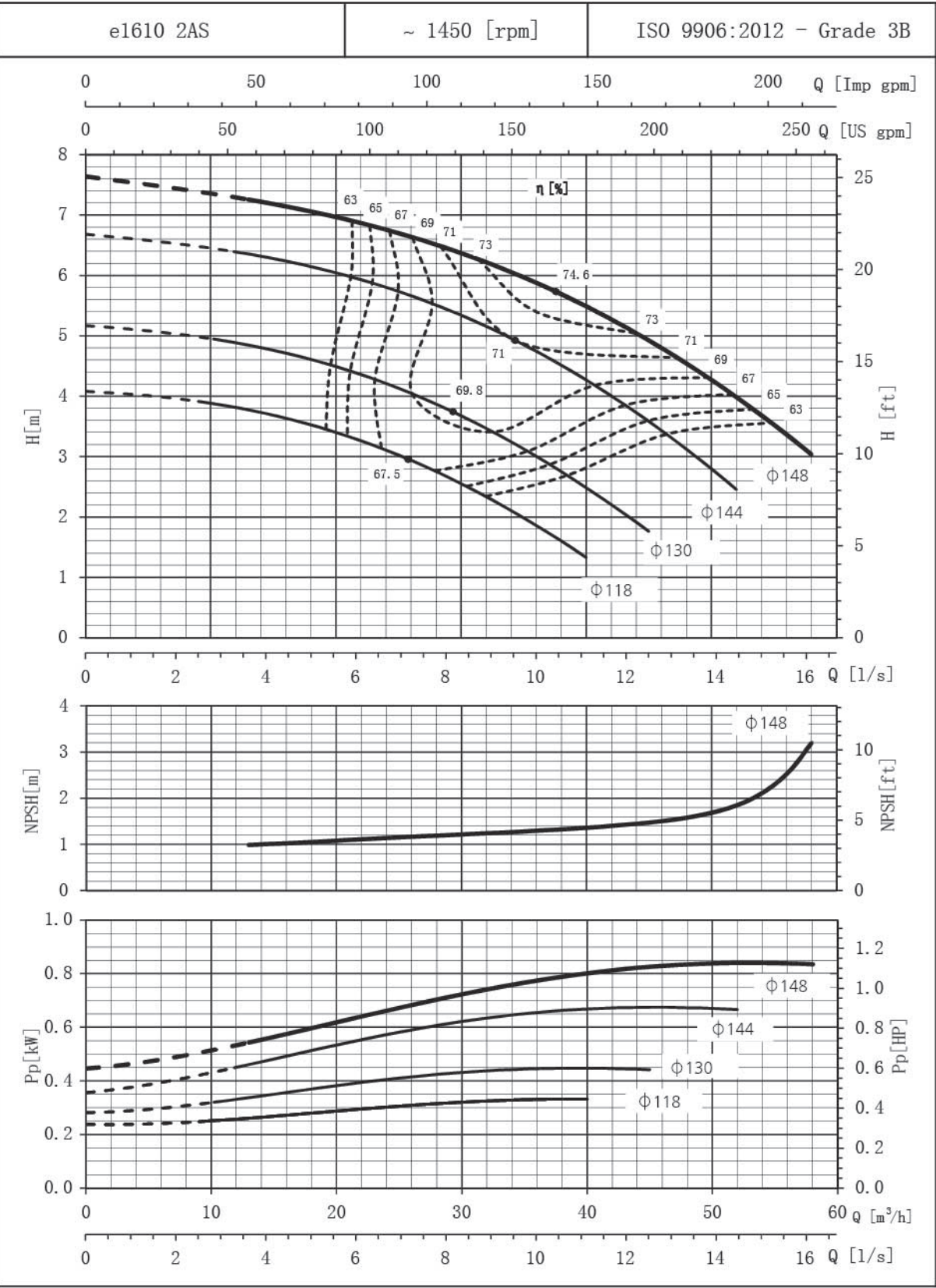
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e1610 Series Operating characteristics at 50Hz,4Poles



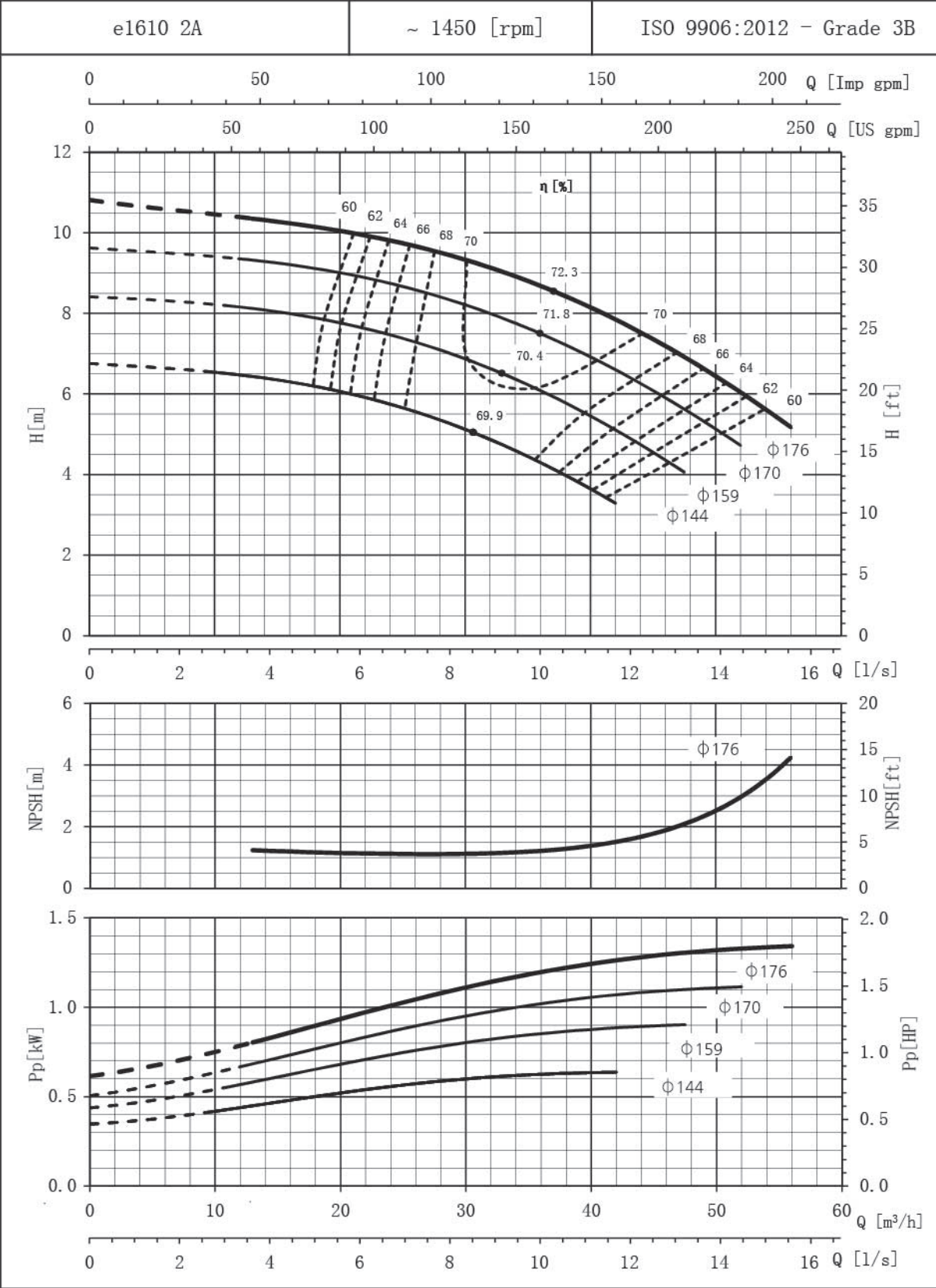
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e1610 Series Operating characteristics at 50Hz,4Poles



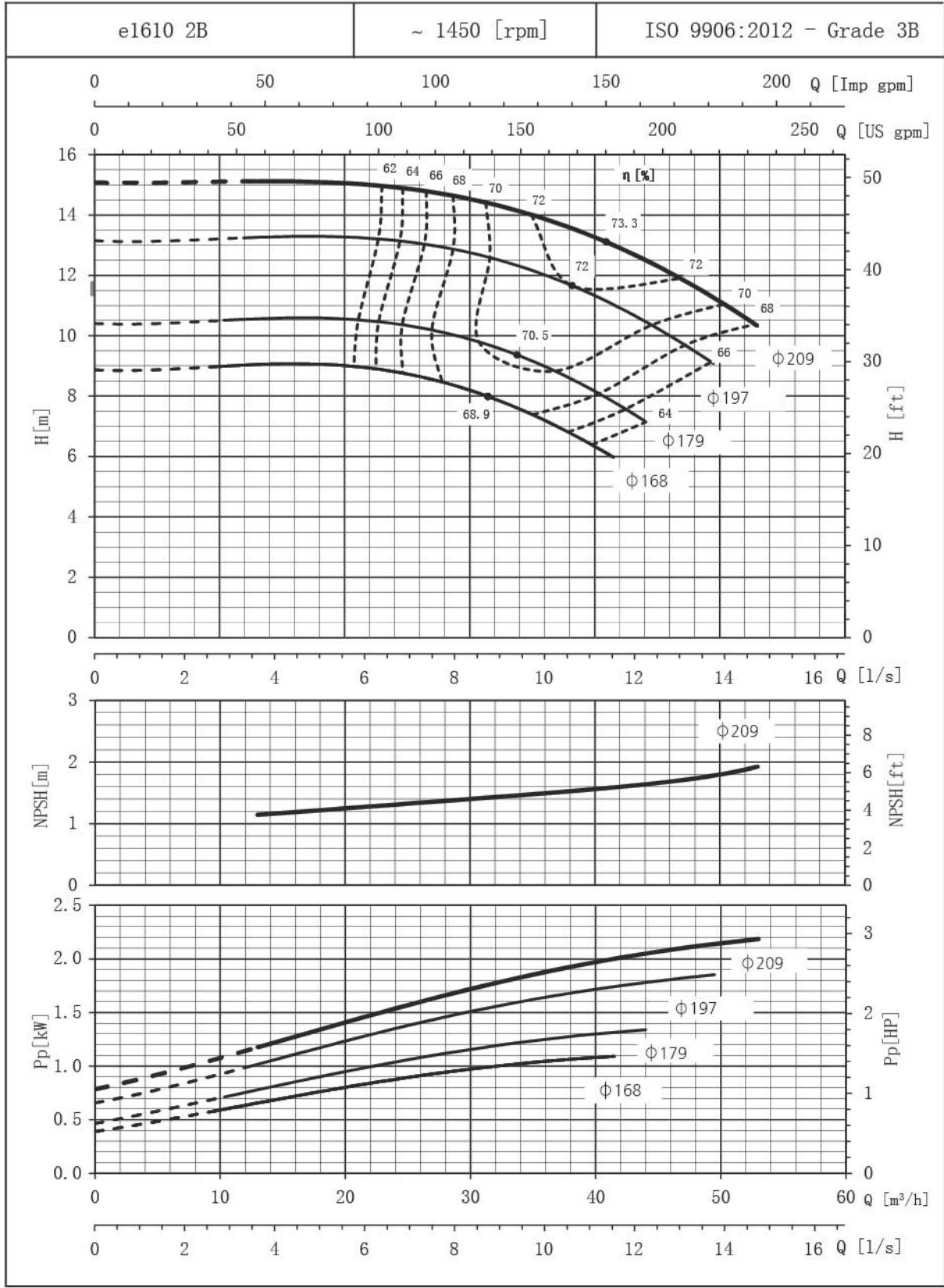
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e1610 Series Operating characteristics at 50Hz,4Poles



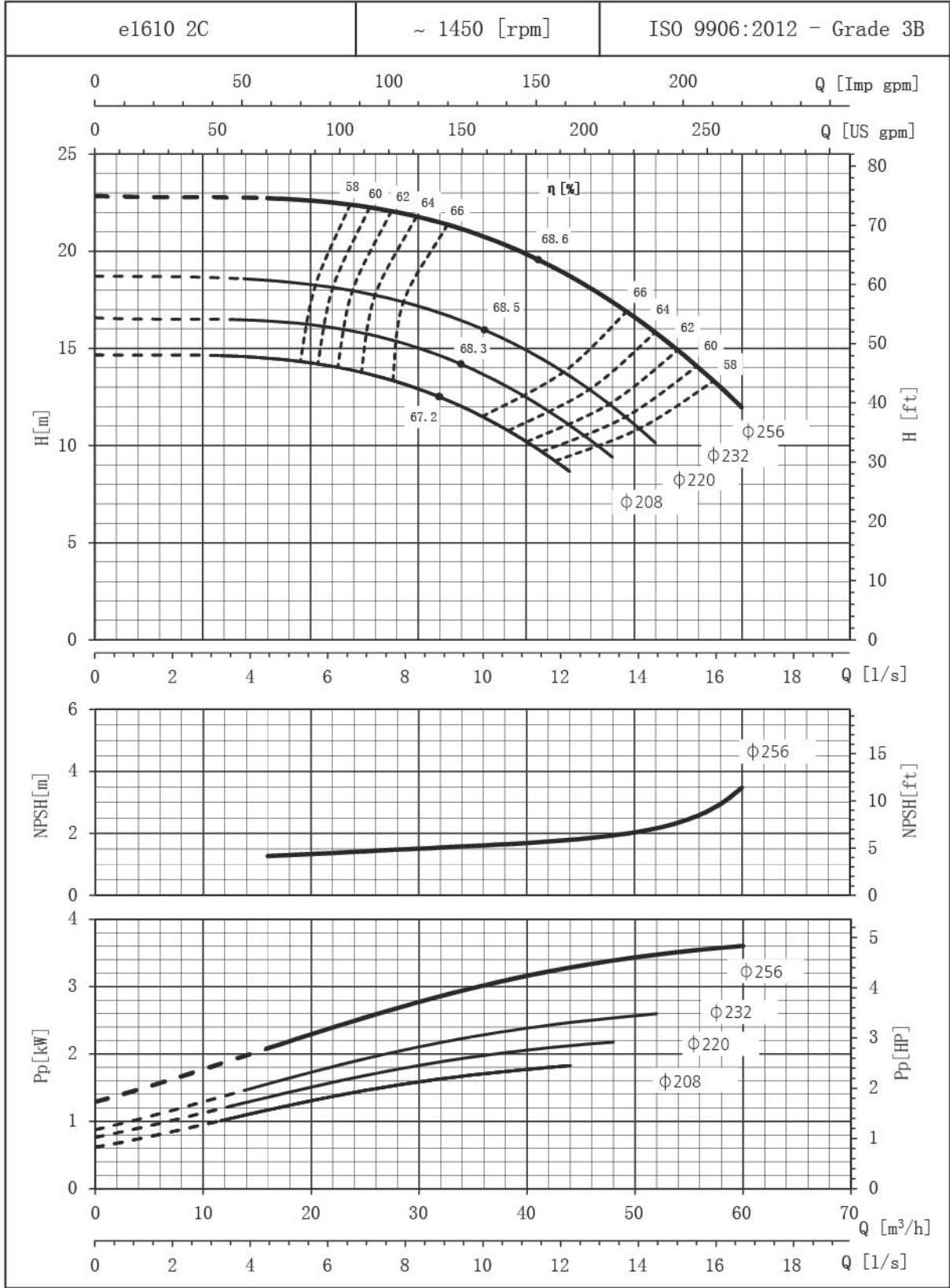
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e1610 Series Operating characteristics at 50Hz,4Poles



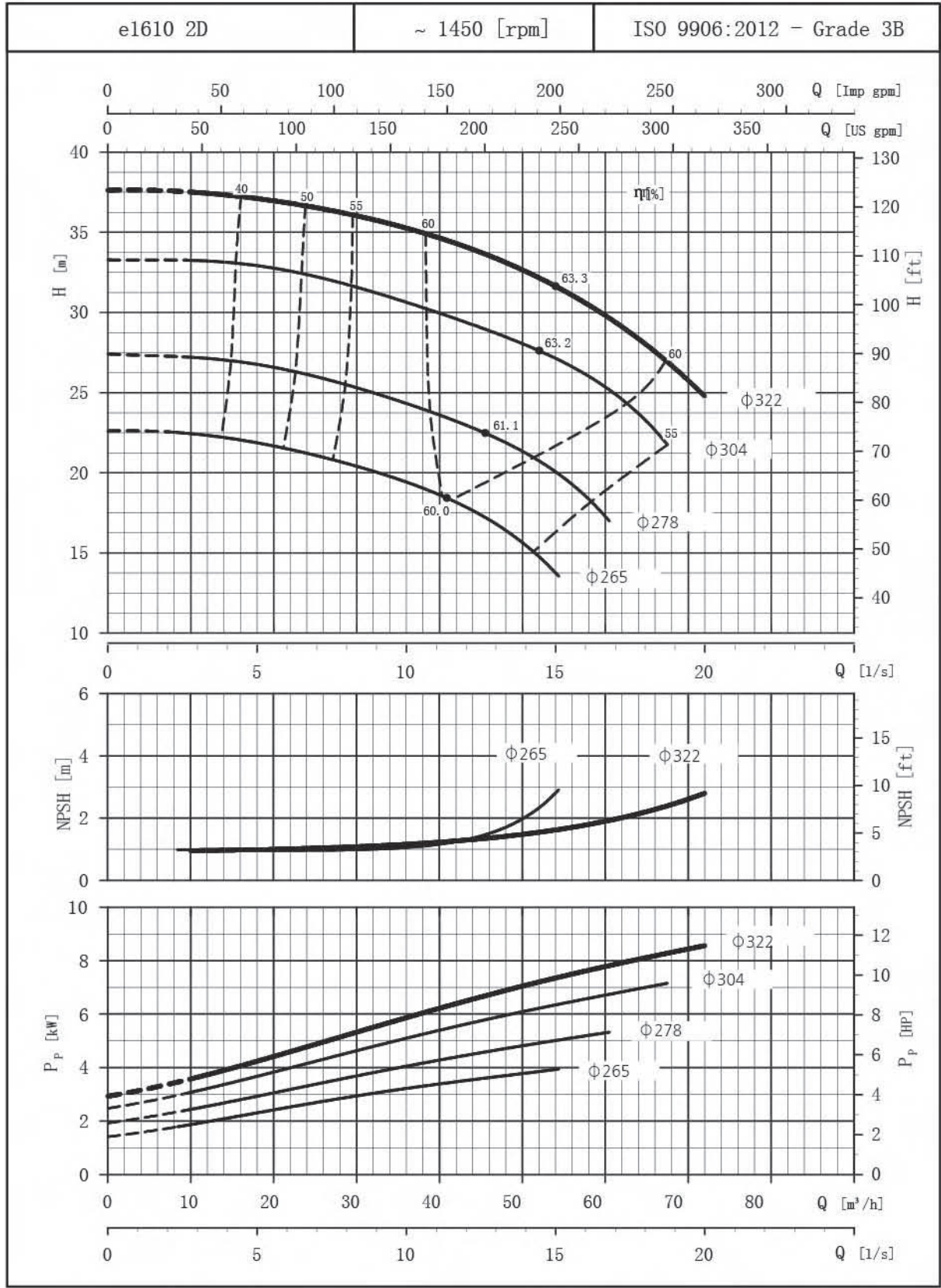
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e1610 Series Operating characteristics at 50Hz,4Poles



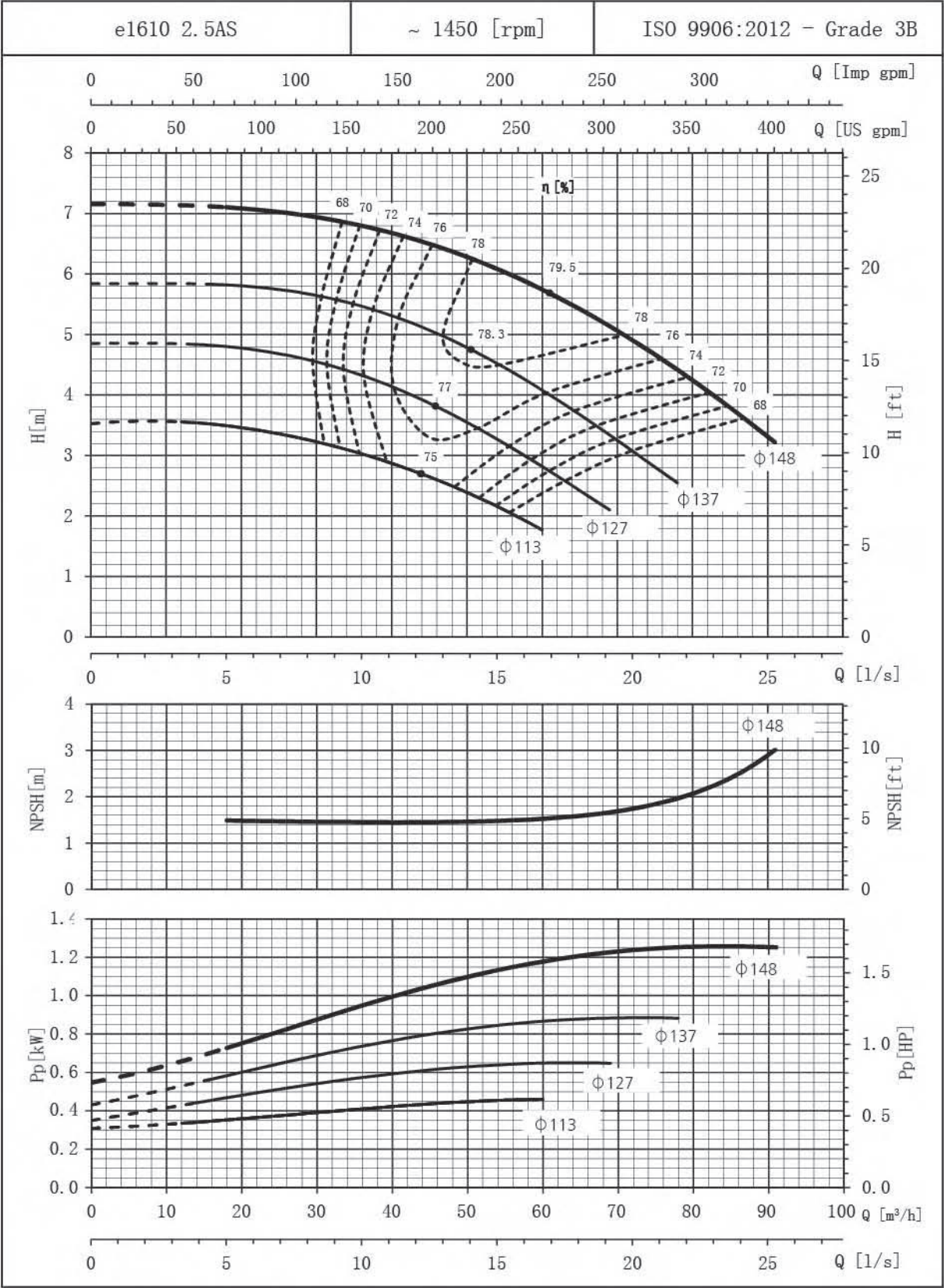
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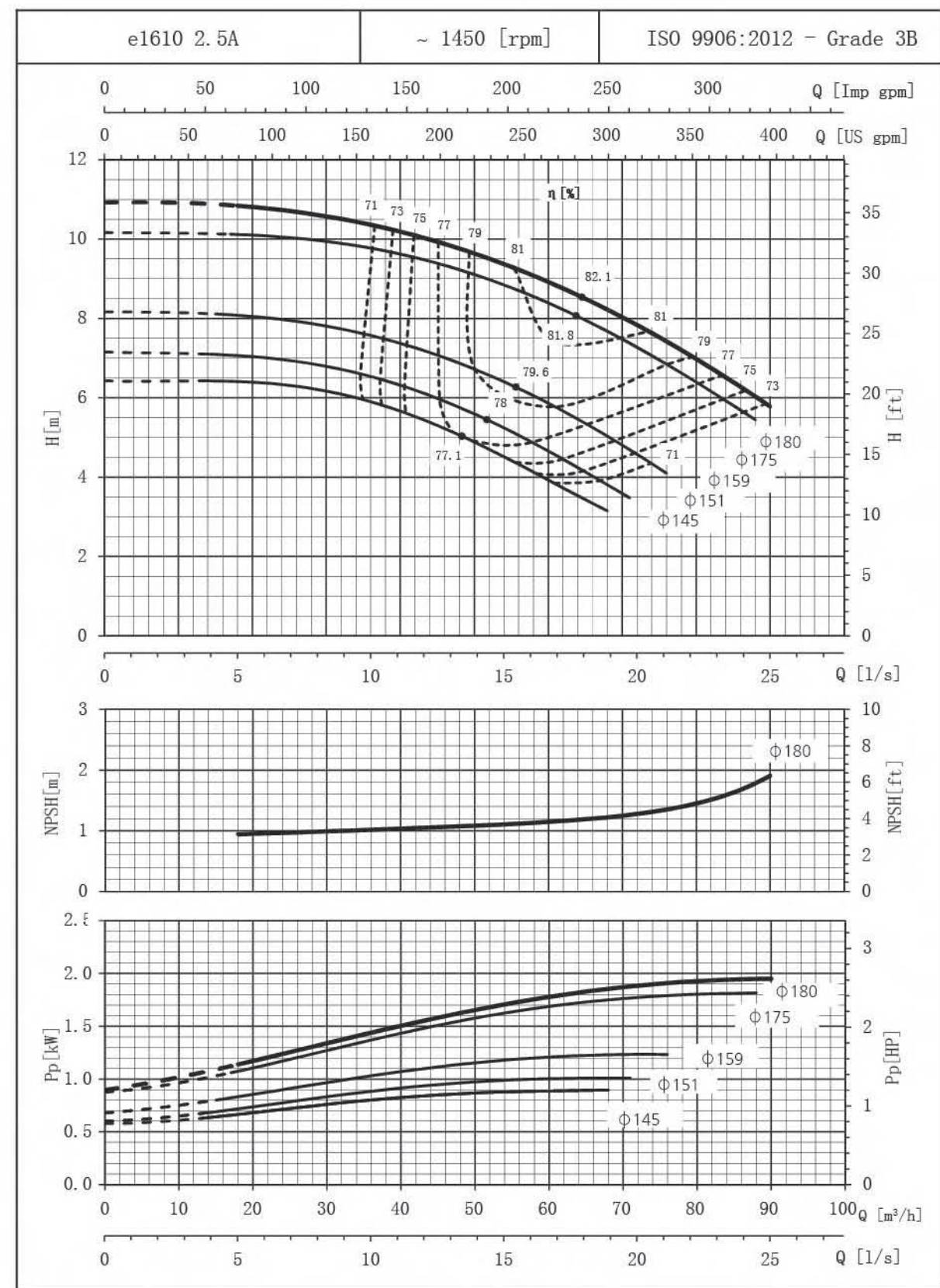
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e1610 Series Operating characteristics at 50Hz,4Poles



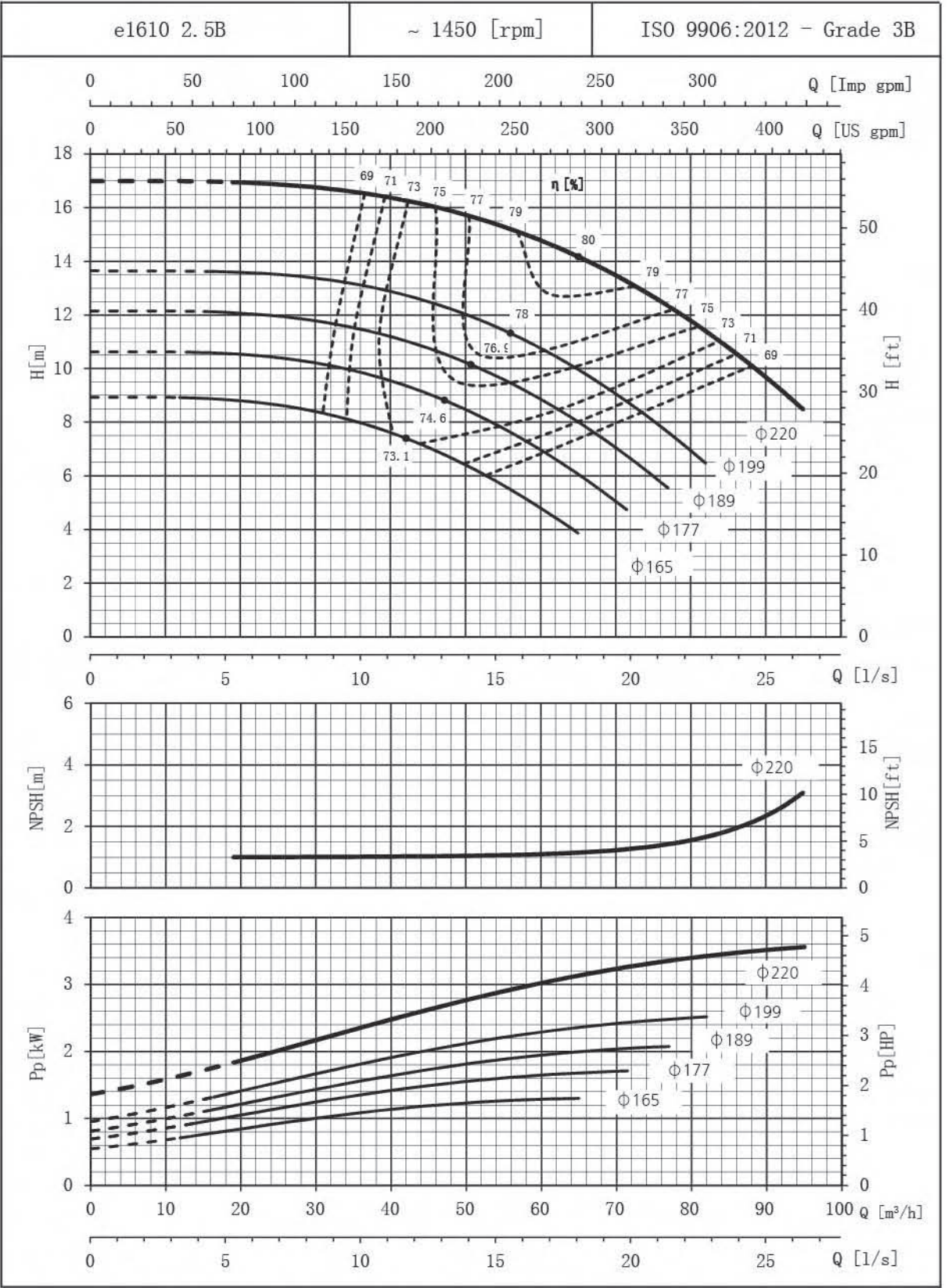
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e1610 Series Operating characteristics at 50Hz,4Poles



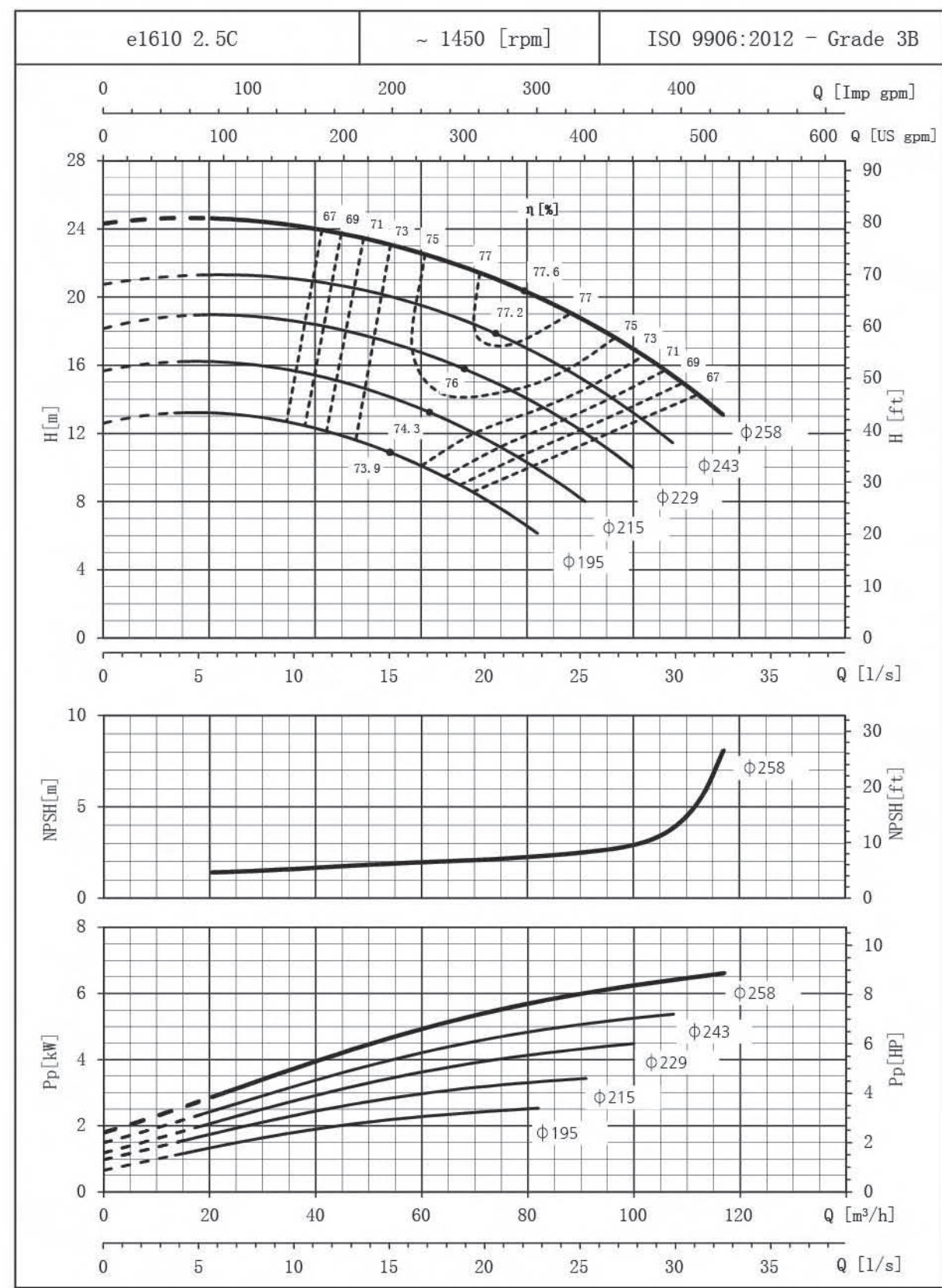
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e1610 Series Operating characteristics at 50Hz,4Poles



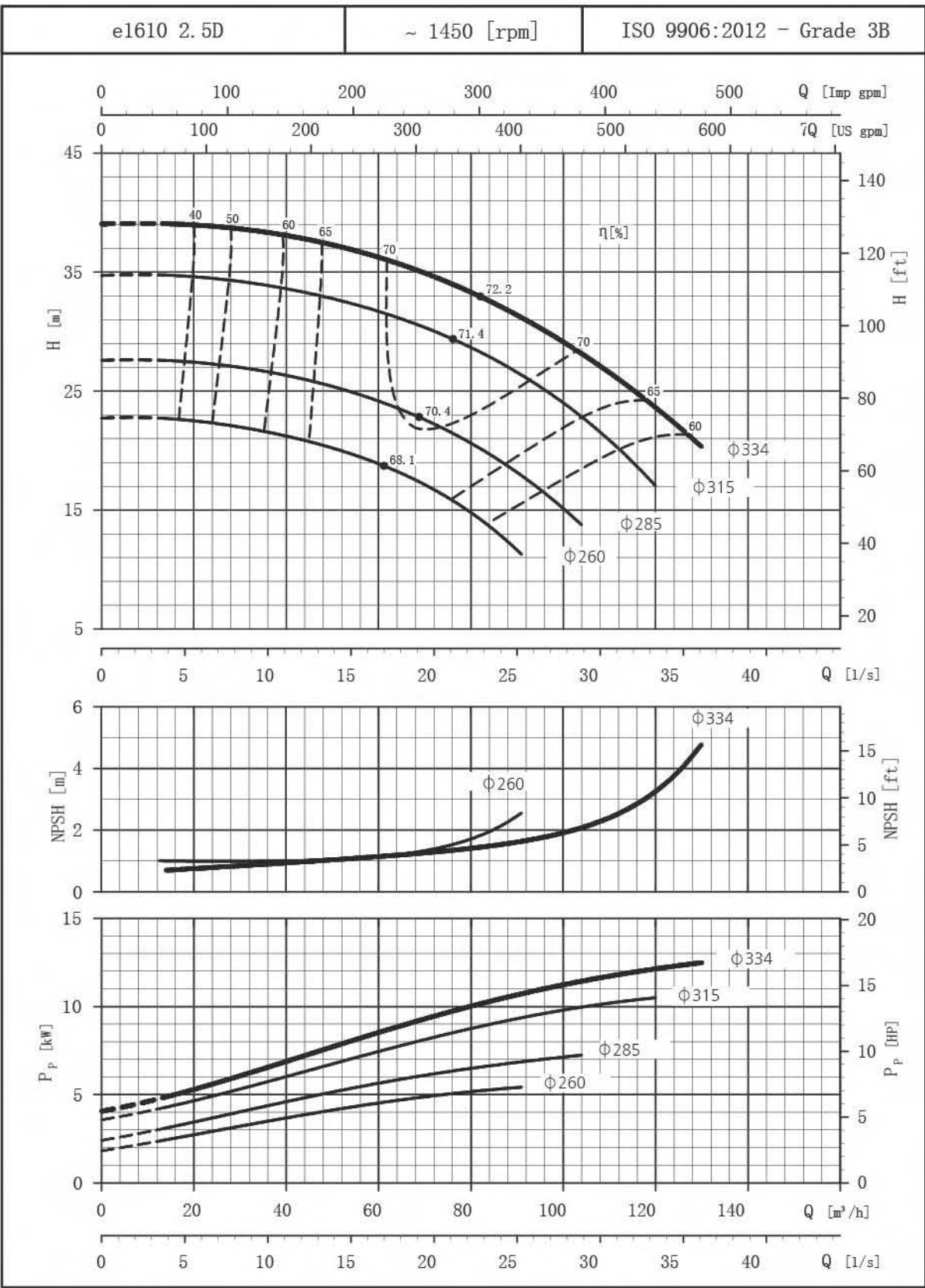
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e1610 Series Operating characteristics at 50Hz,4Poles



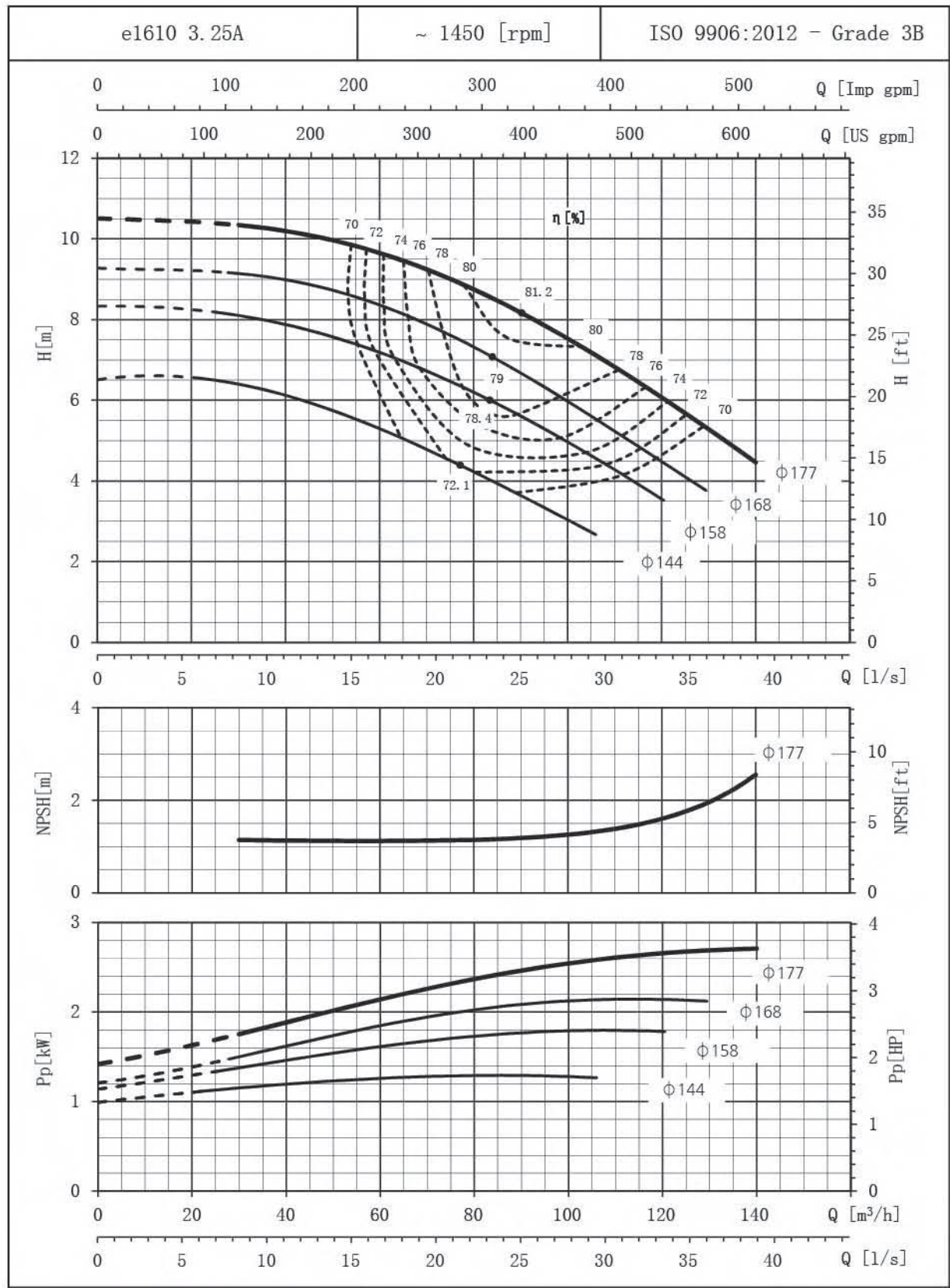
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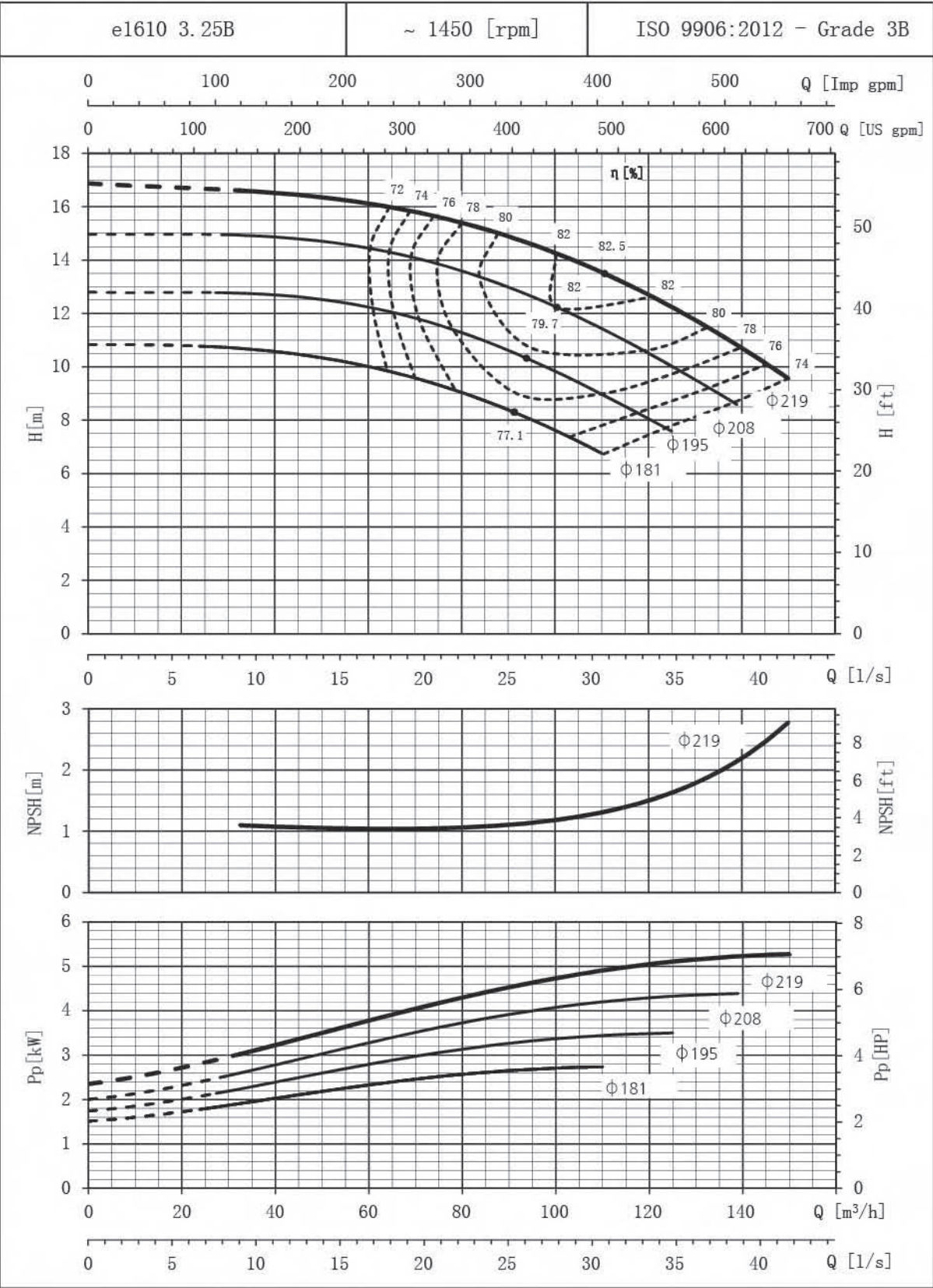
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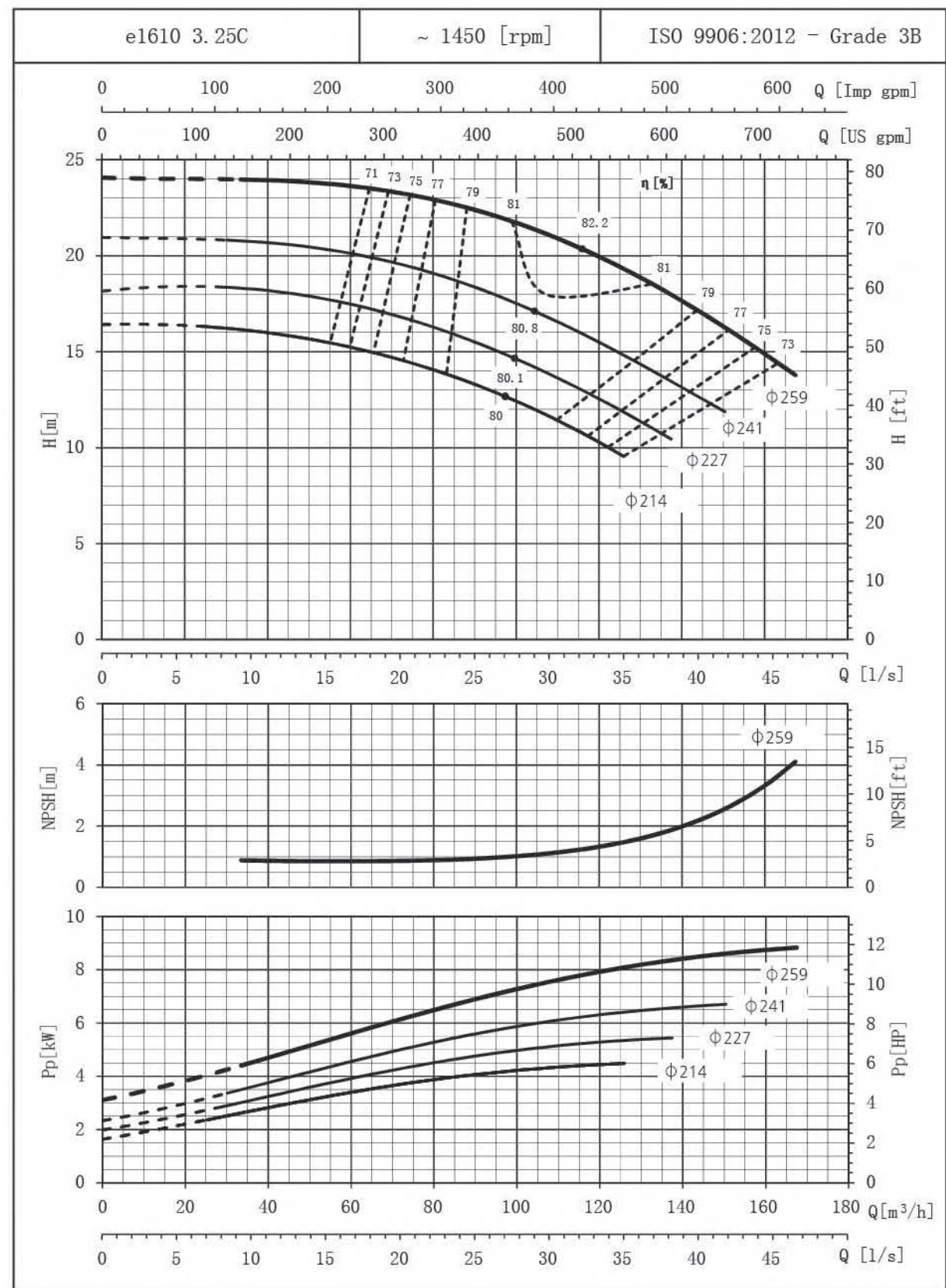
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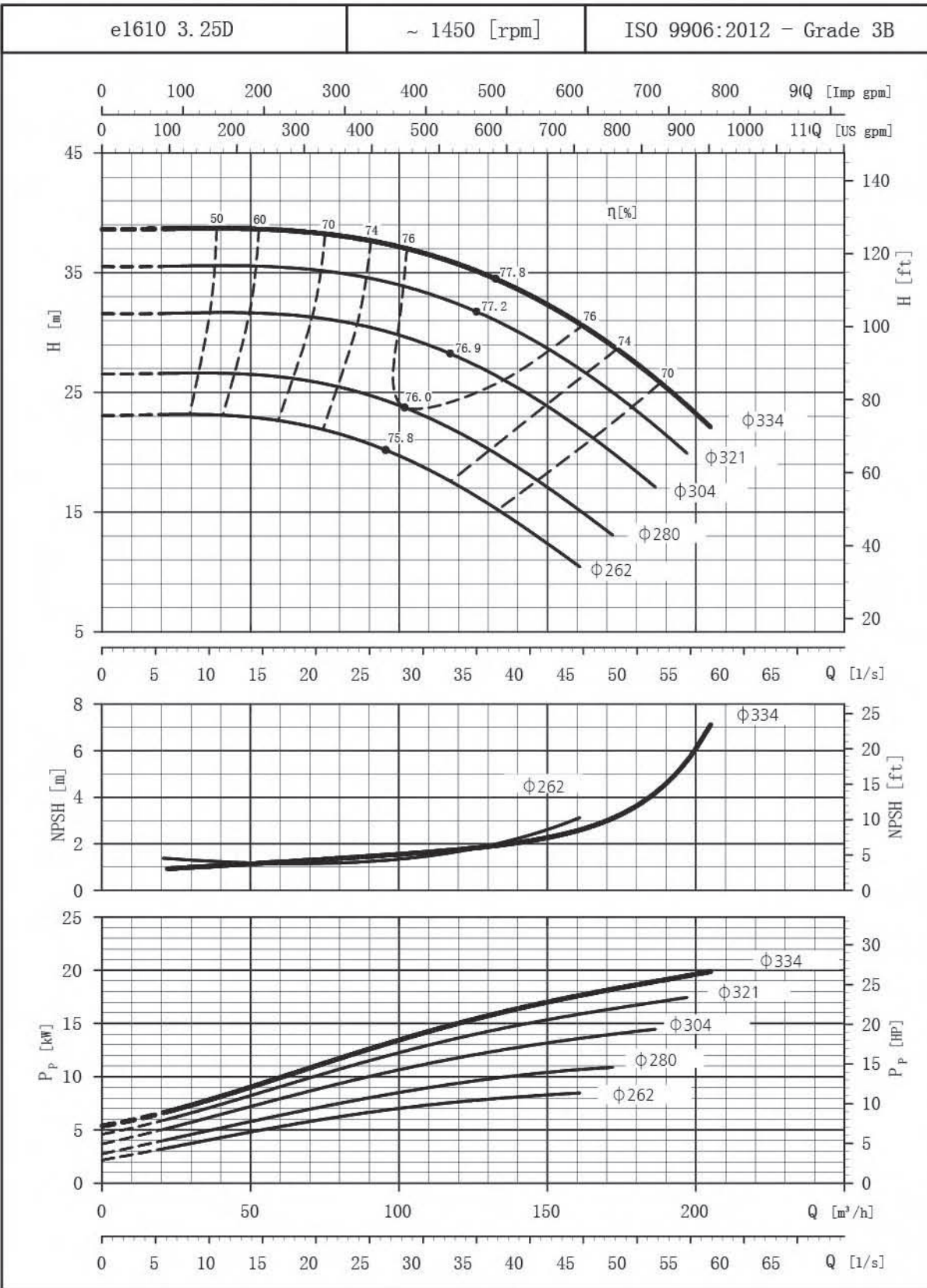
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e1610 Series Operating characteristics at 50Hz,4Poles



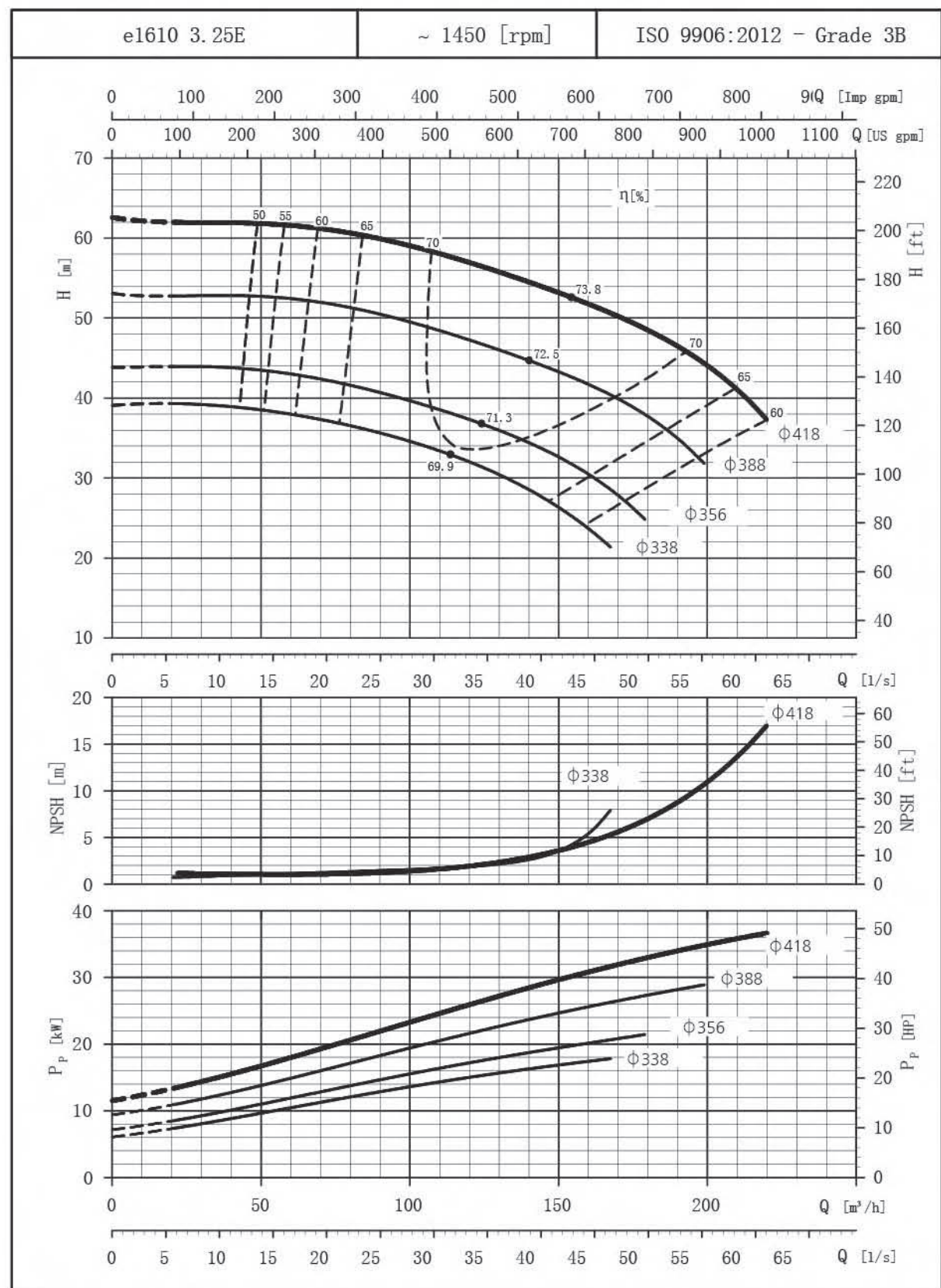
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e1610 Series Operating characteristics at 50Hz,4Poles



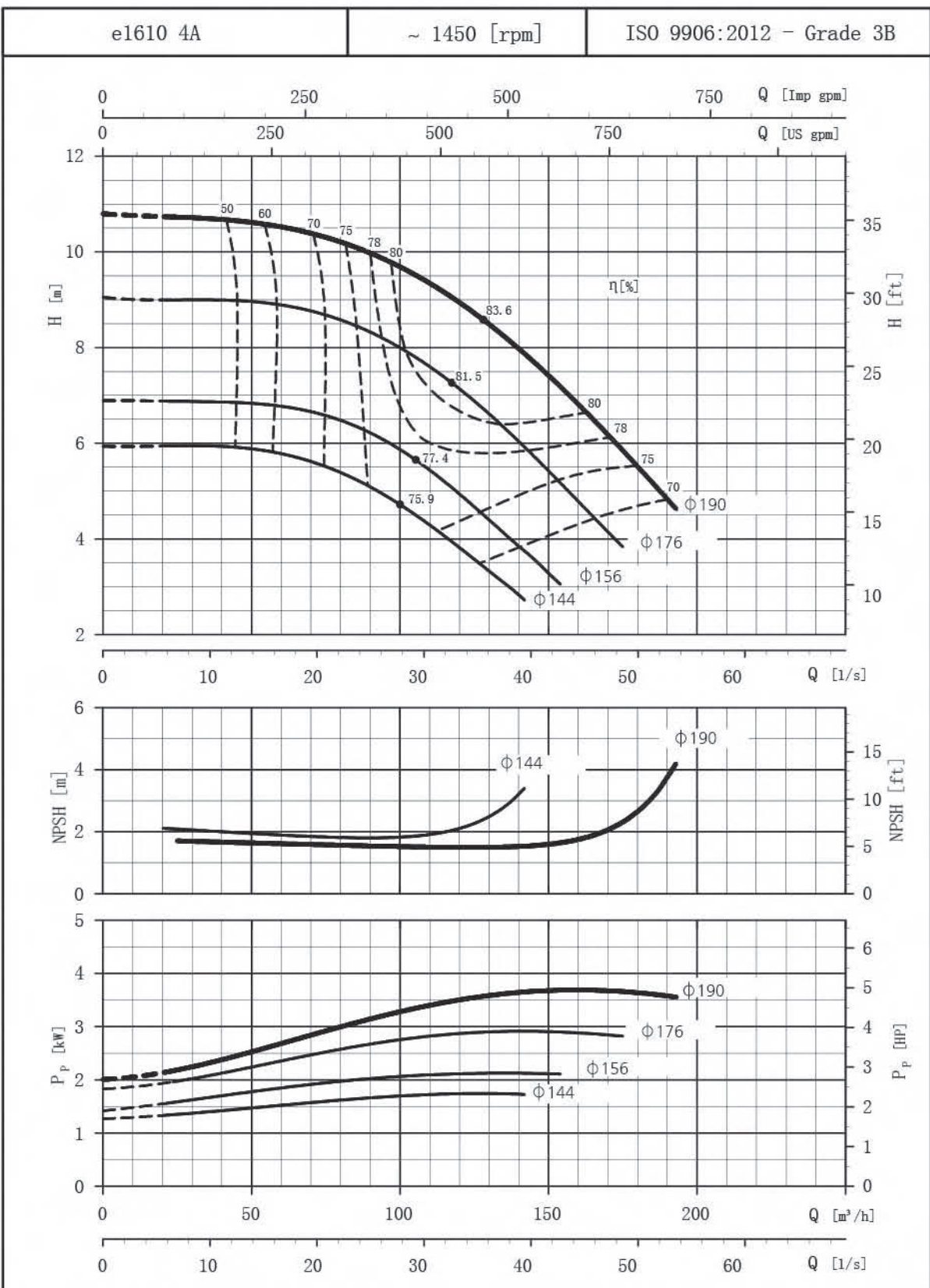
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e1610 Series Operating characteristics at 50Hz,4Poles



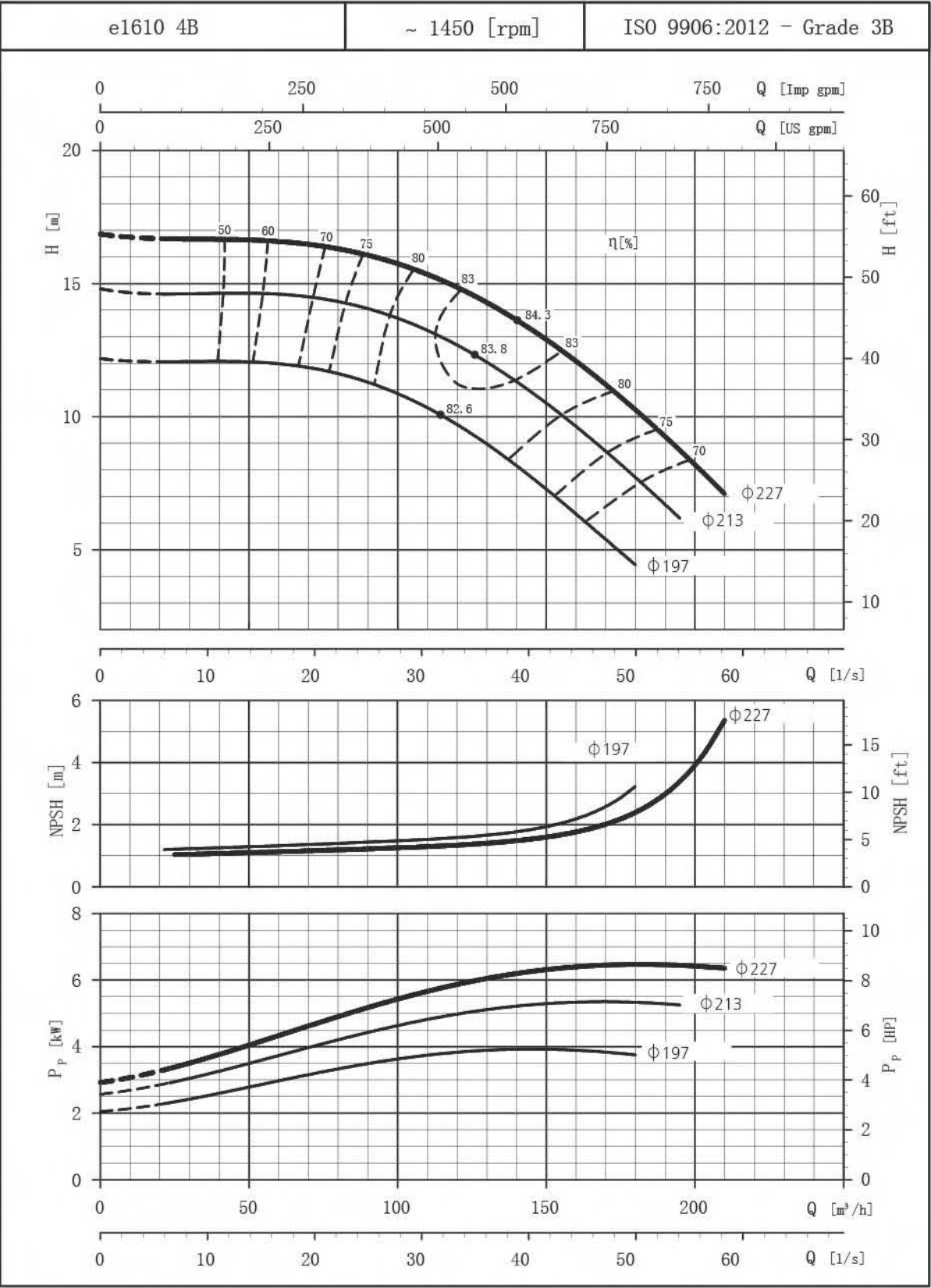
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e1610 Series Operating characteristics at 50Hz,4Poles



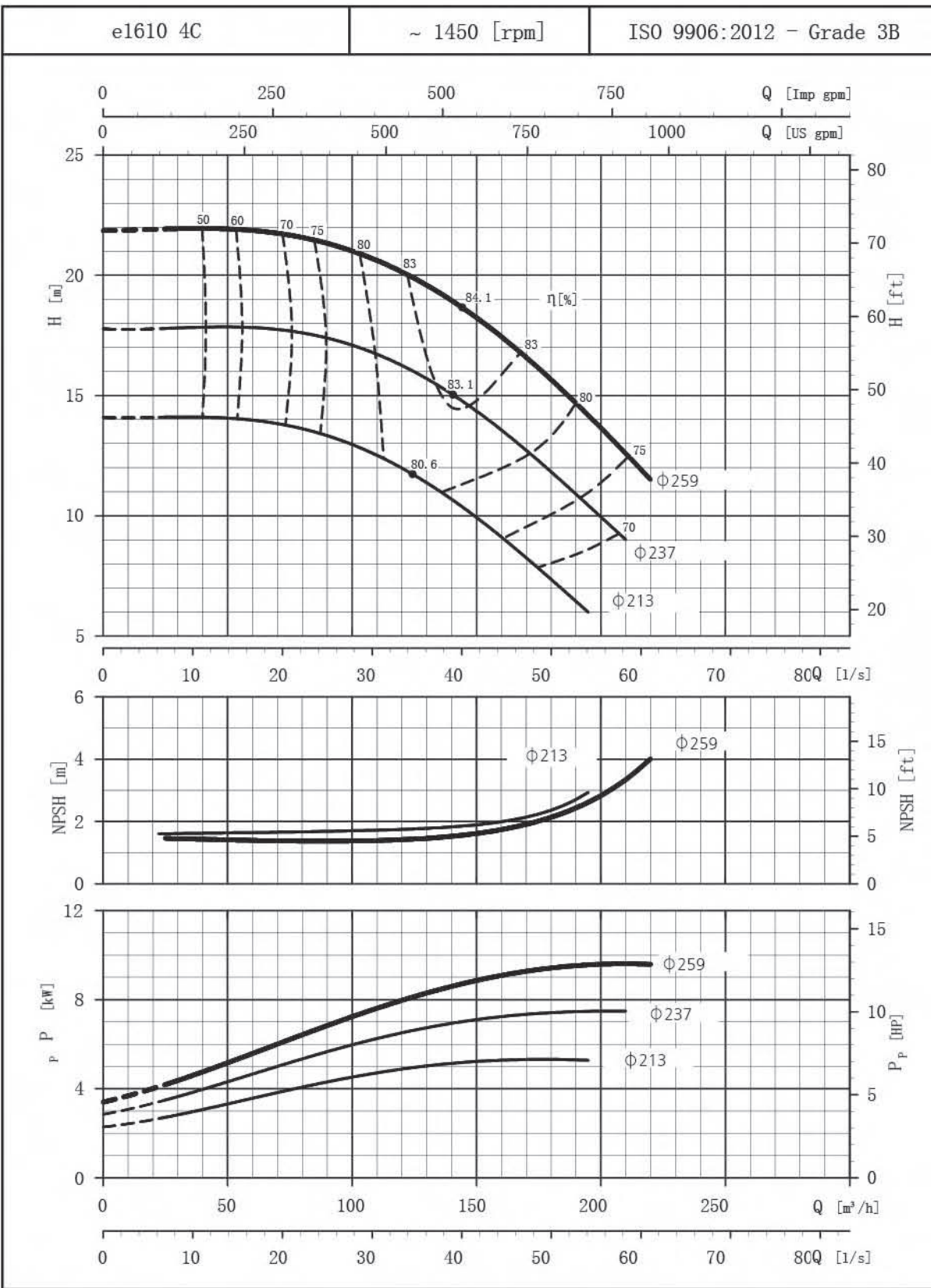
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e1610 Series Operating characteristics at 50Hz,4Poles



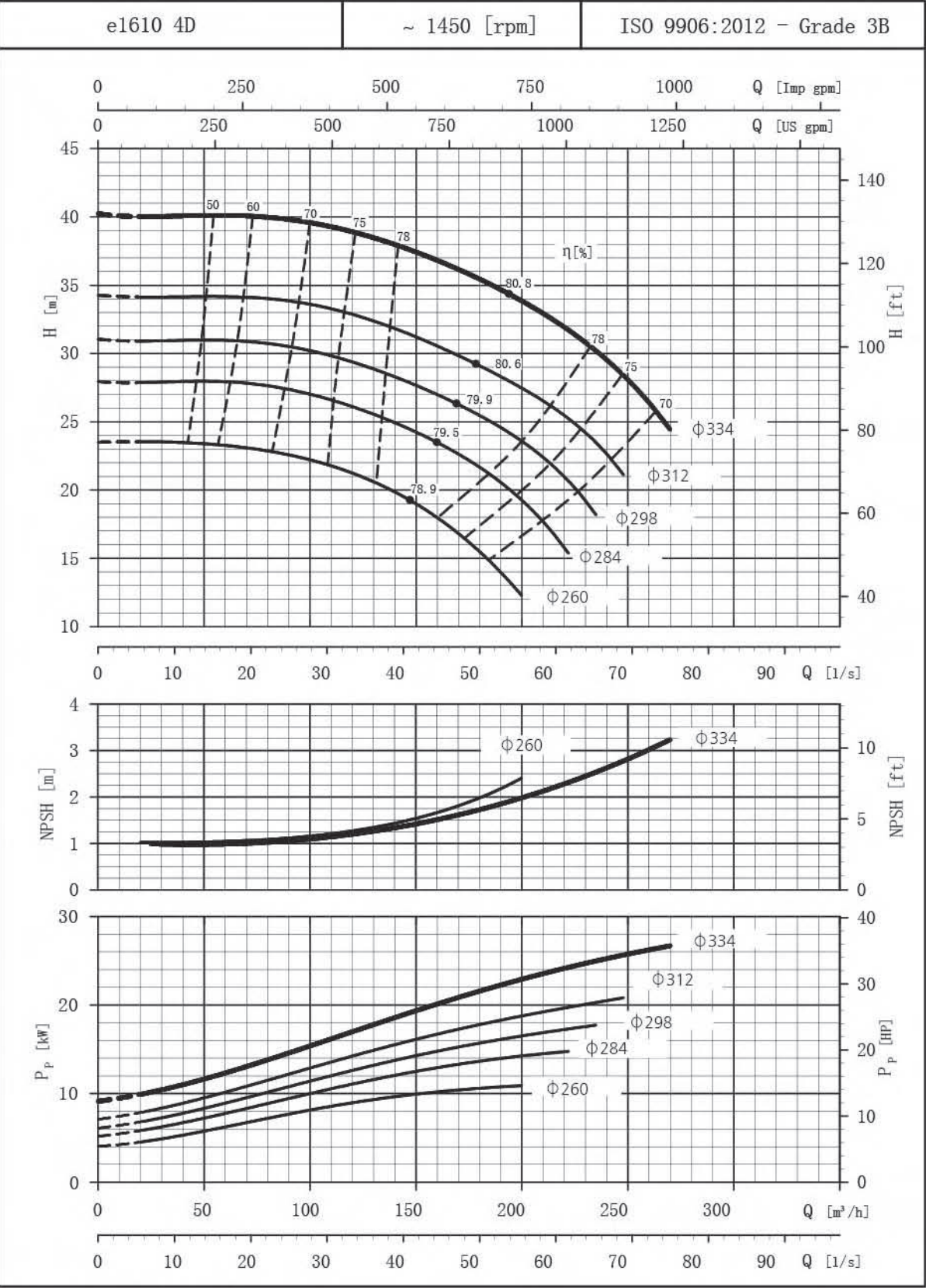
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e1610 Series Operating characteristics at 50Hz,4Poles



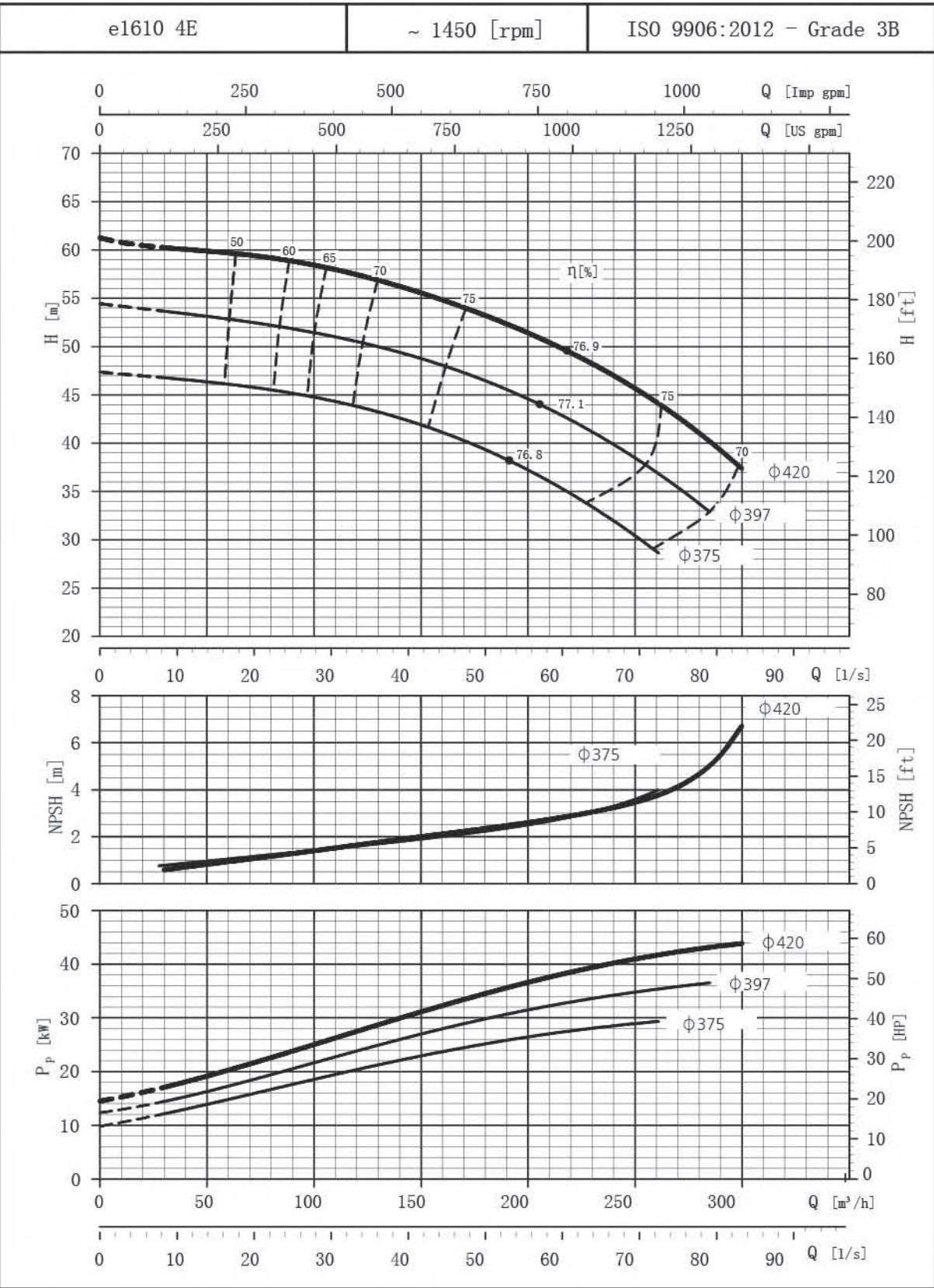
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e1610 Series Operating characteristics at 50Hz,4Poles



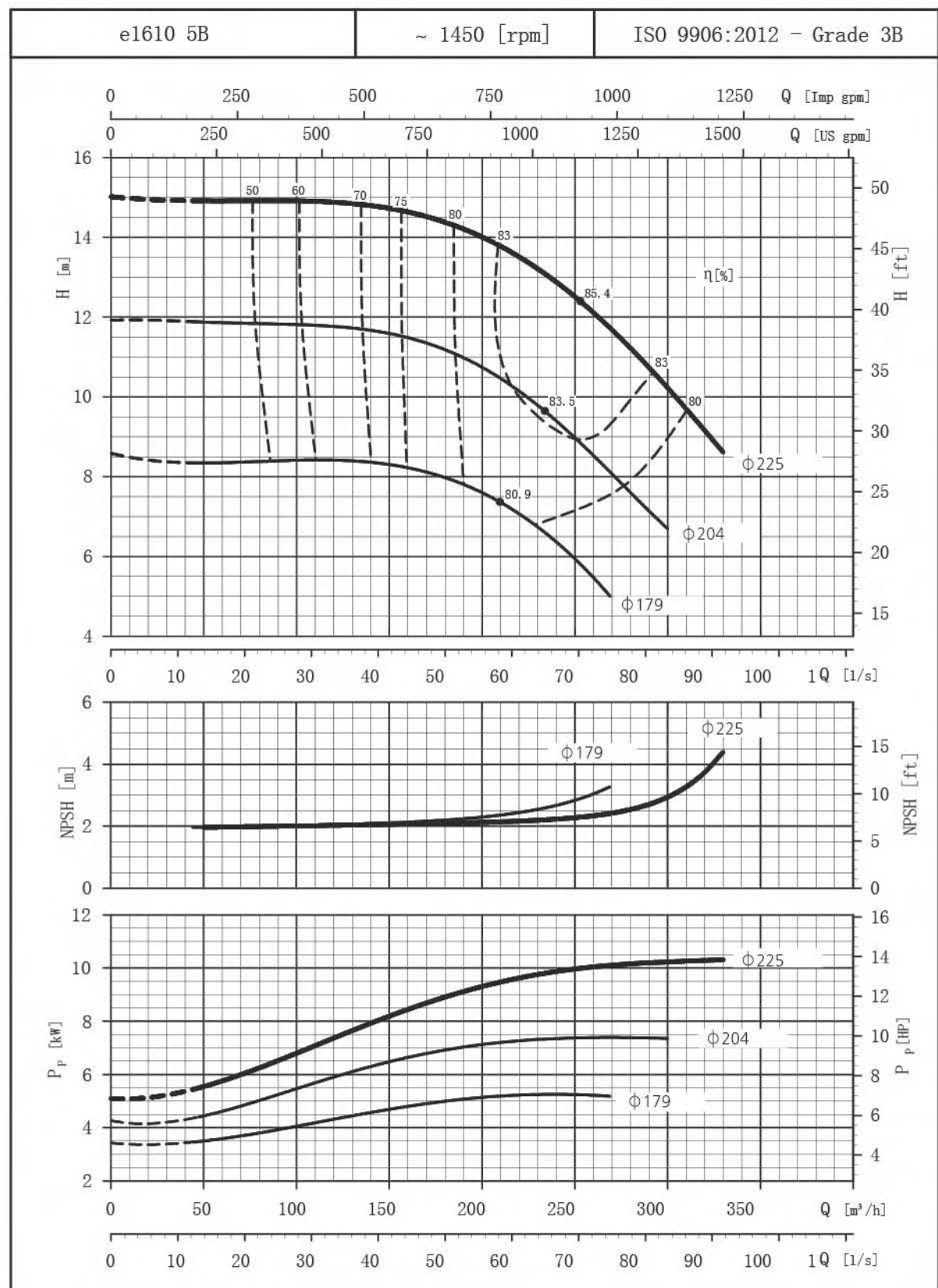
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e1610 Series Operating characteristics at 50Hz,4Poles



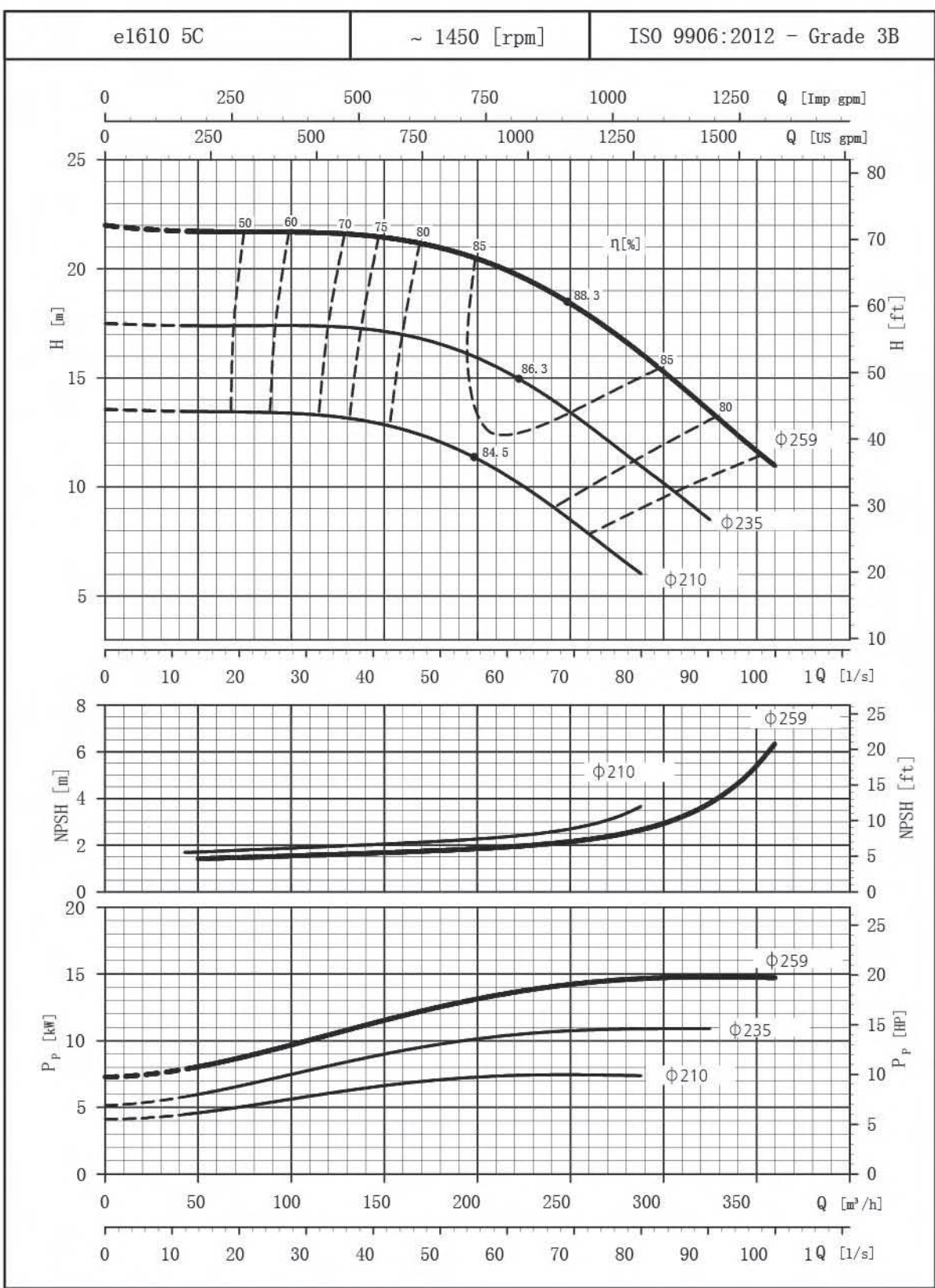
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e1610 Series Operating characteristics at 50Hz,4Poles



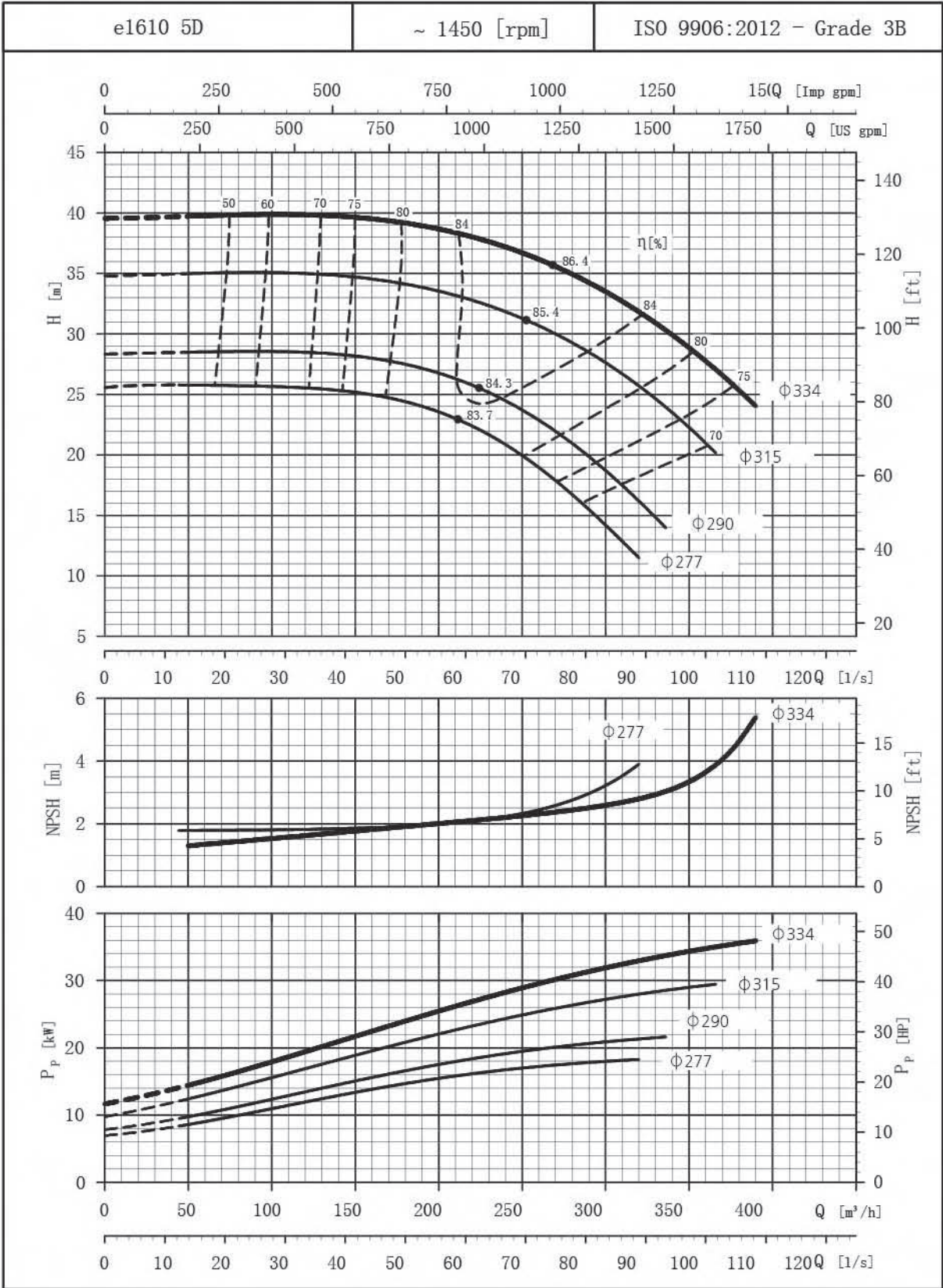
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e1610 Series Operating characteristics at 50Hz,4Poles



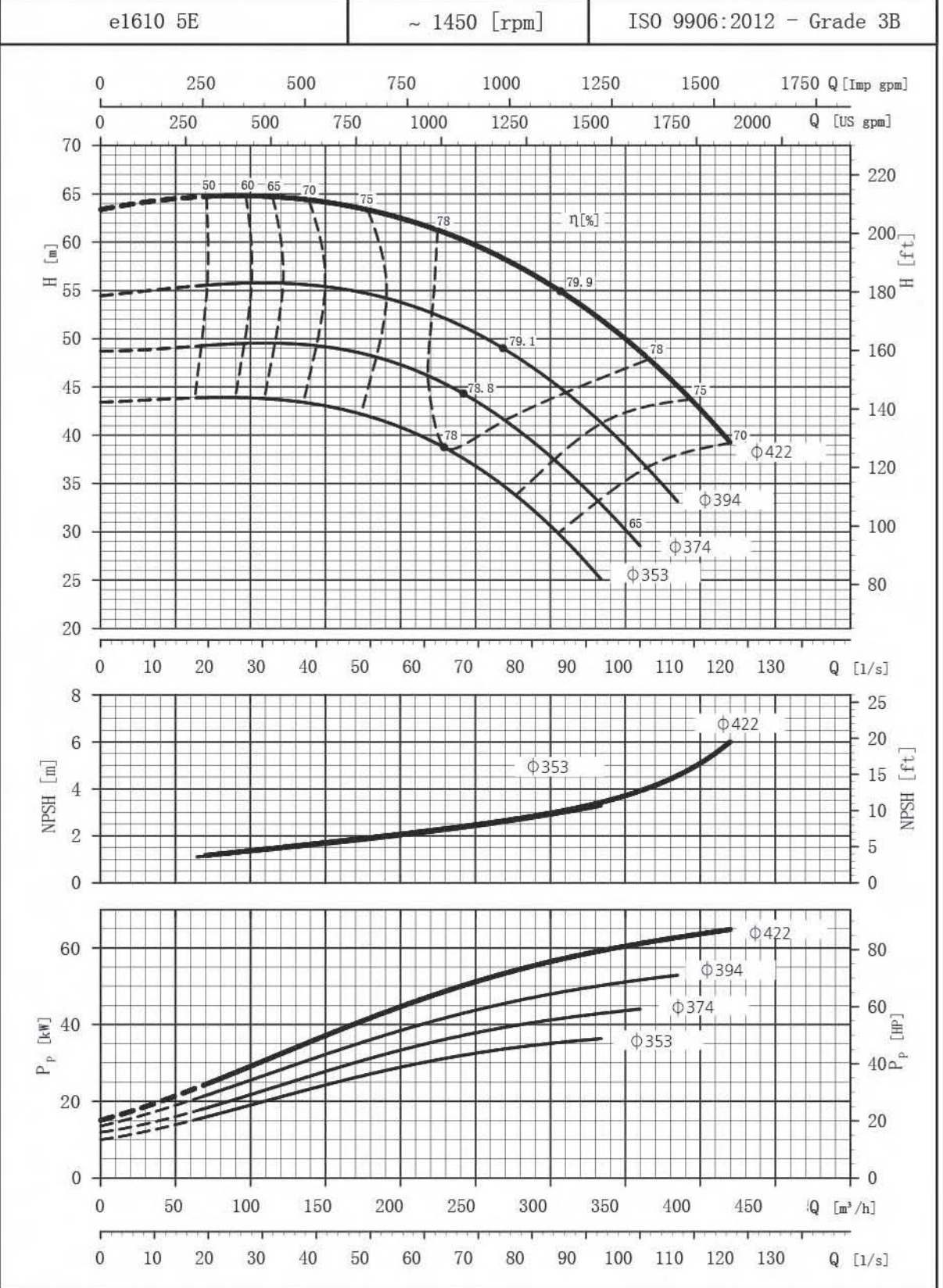
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e1610 Series Operating characteristics at 50Hz,4Poles



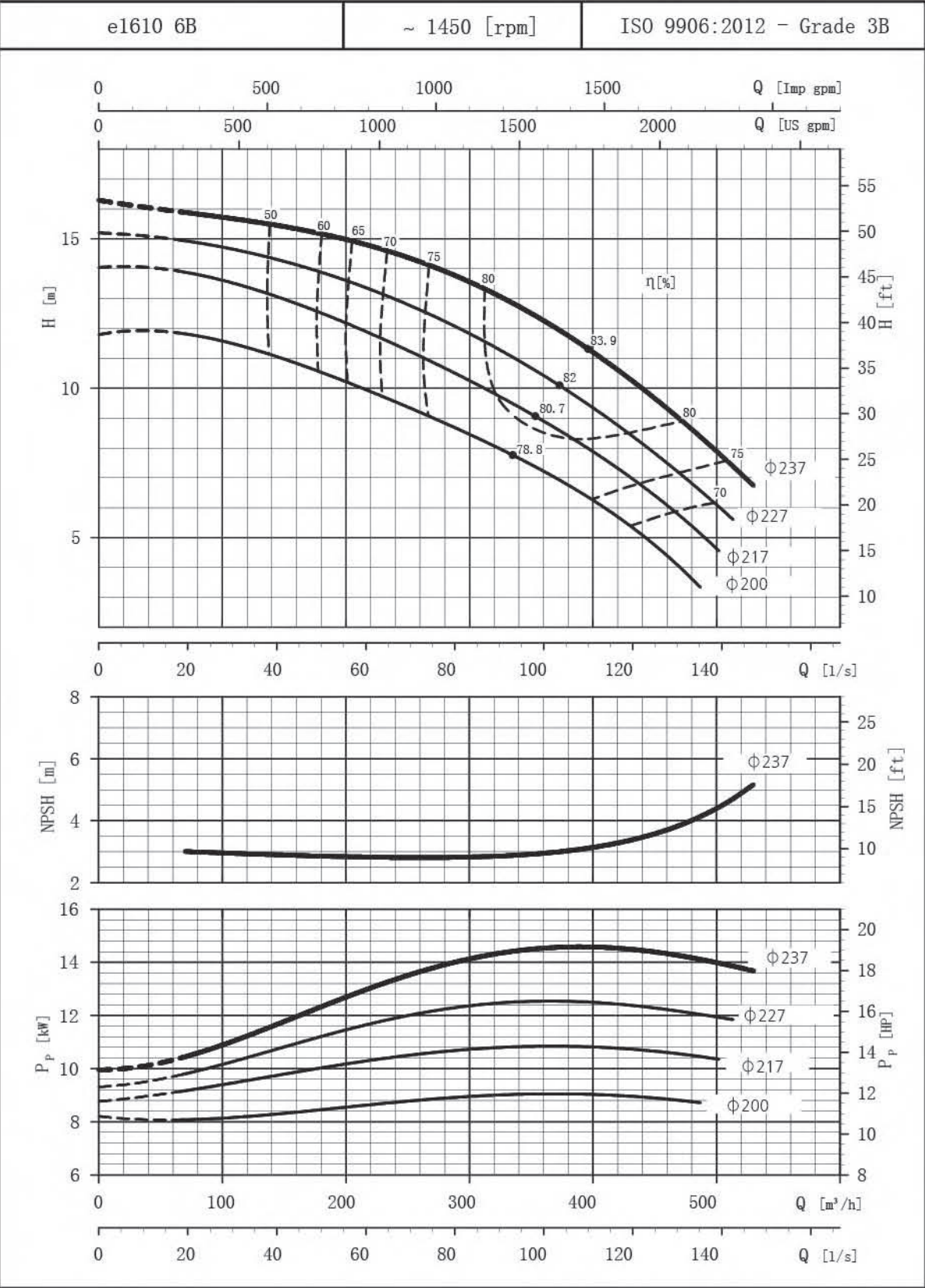
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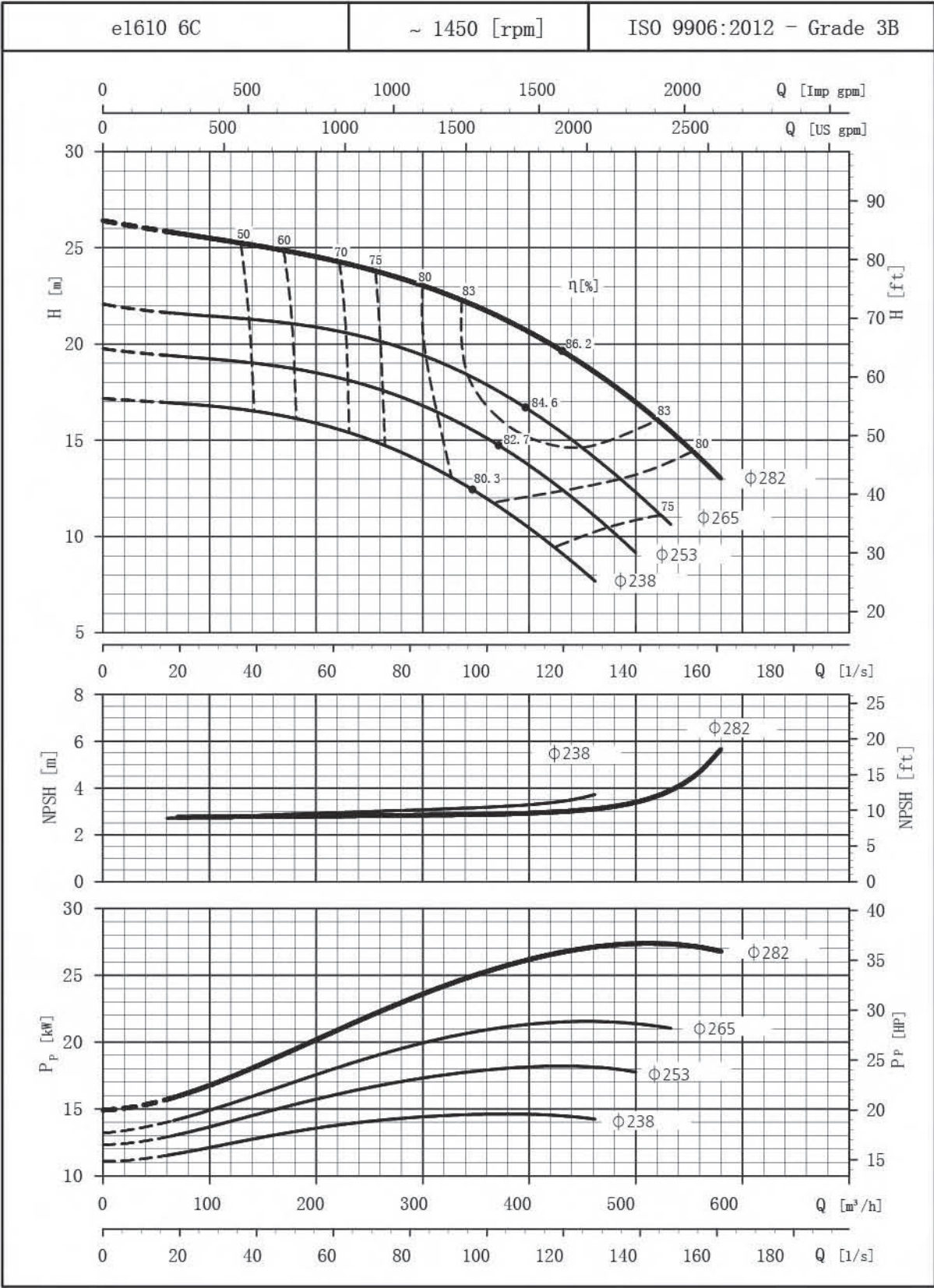
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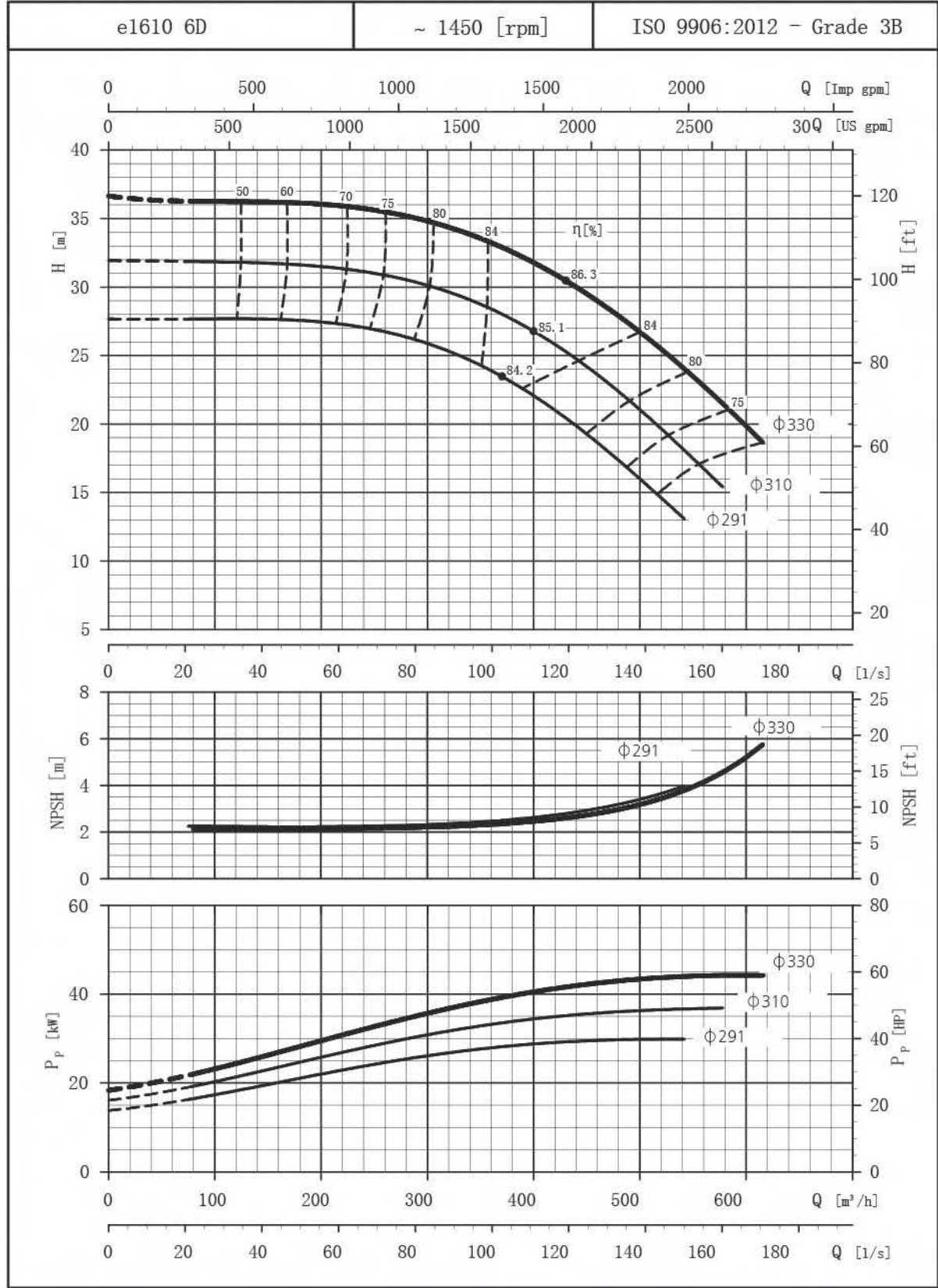
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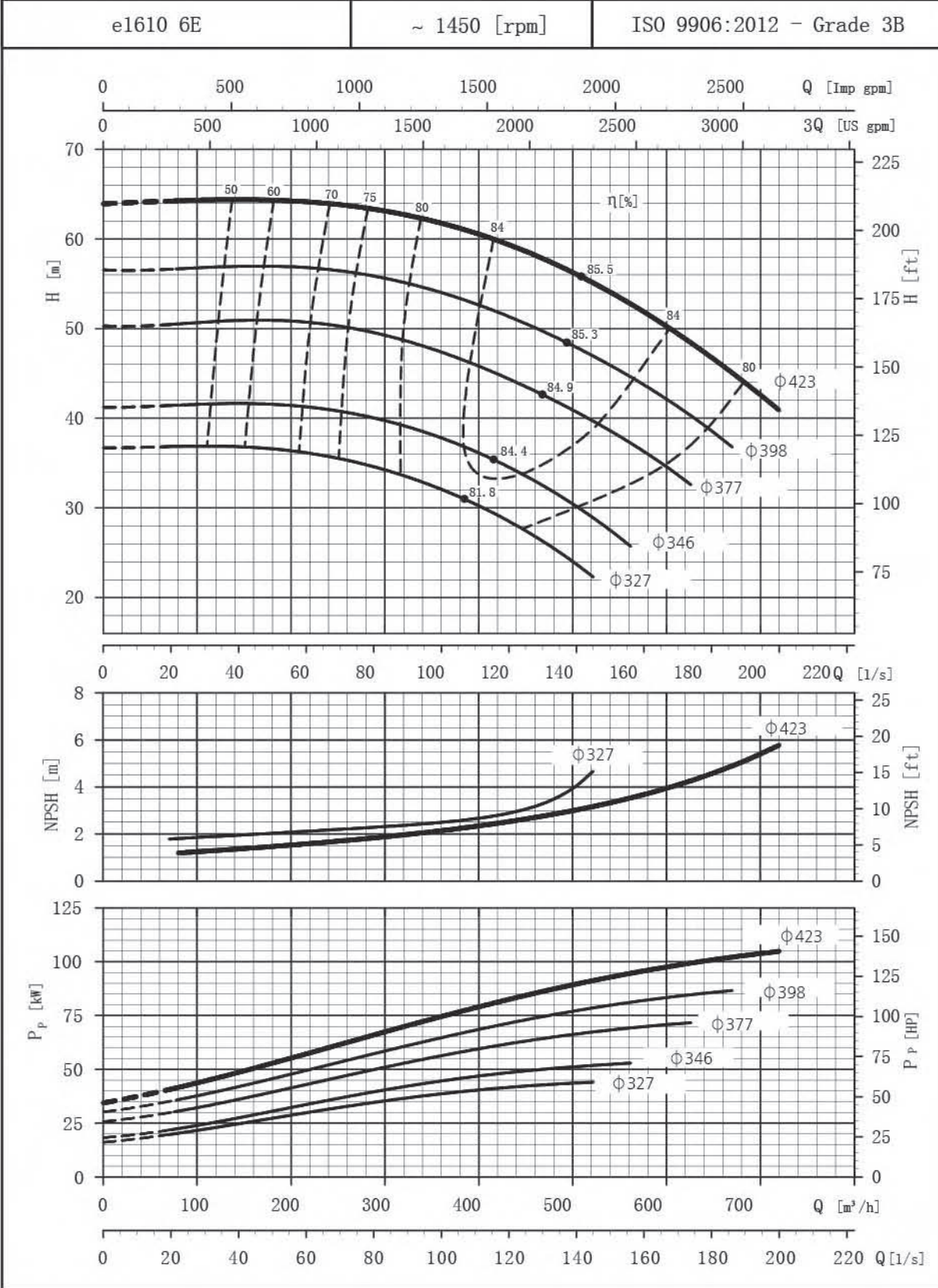
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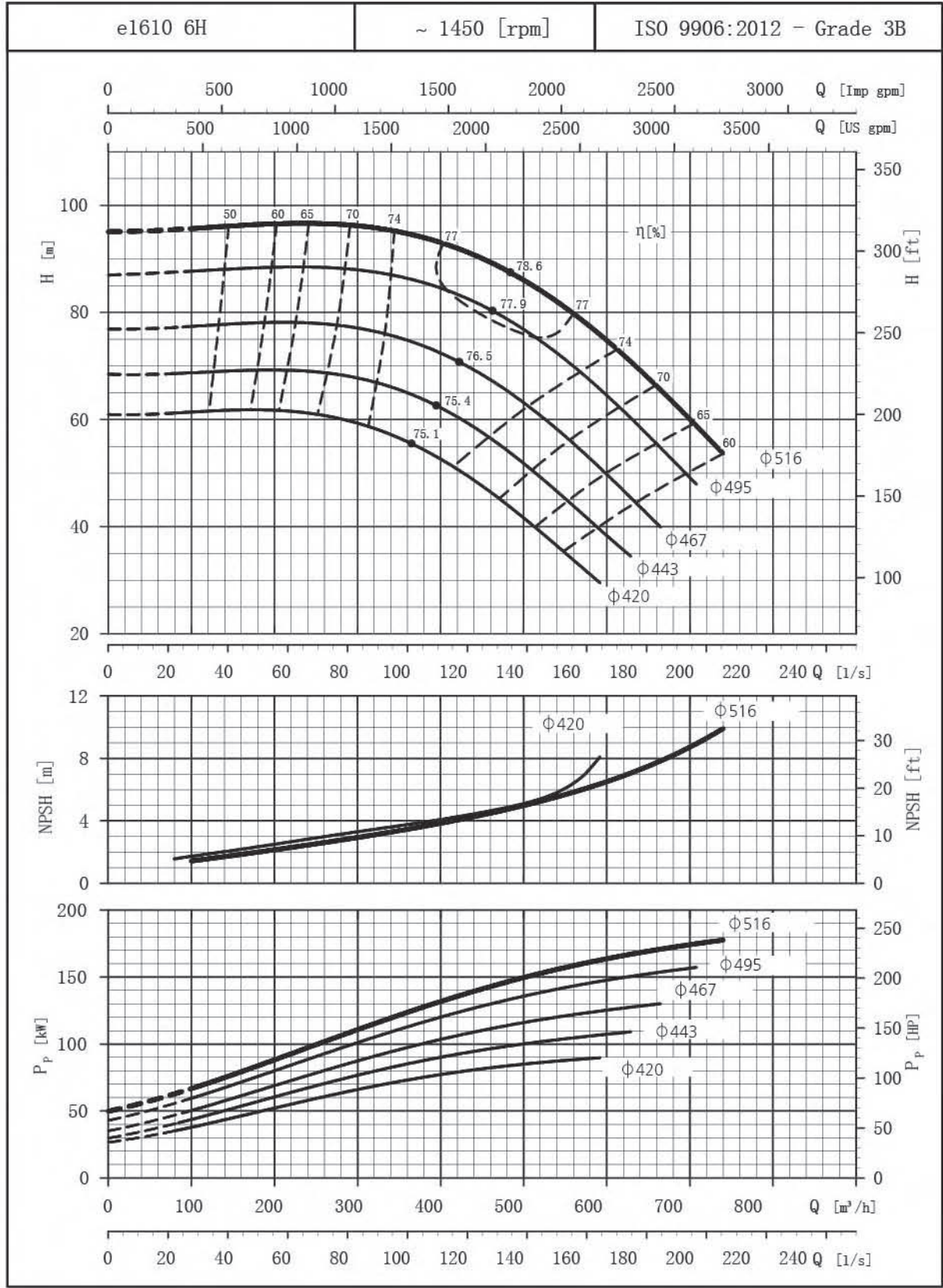
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density P=1.0kg/dm³ and kinematic viscosity v=1mm²/seconel.

e1610 Series Operating characteristics at 50Hz,4Poles



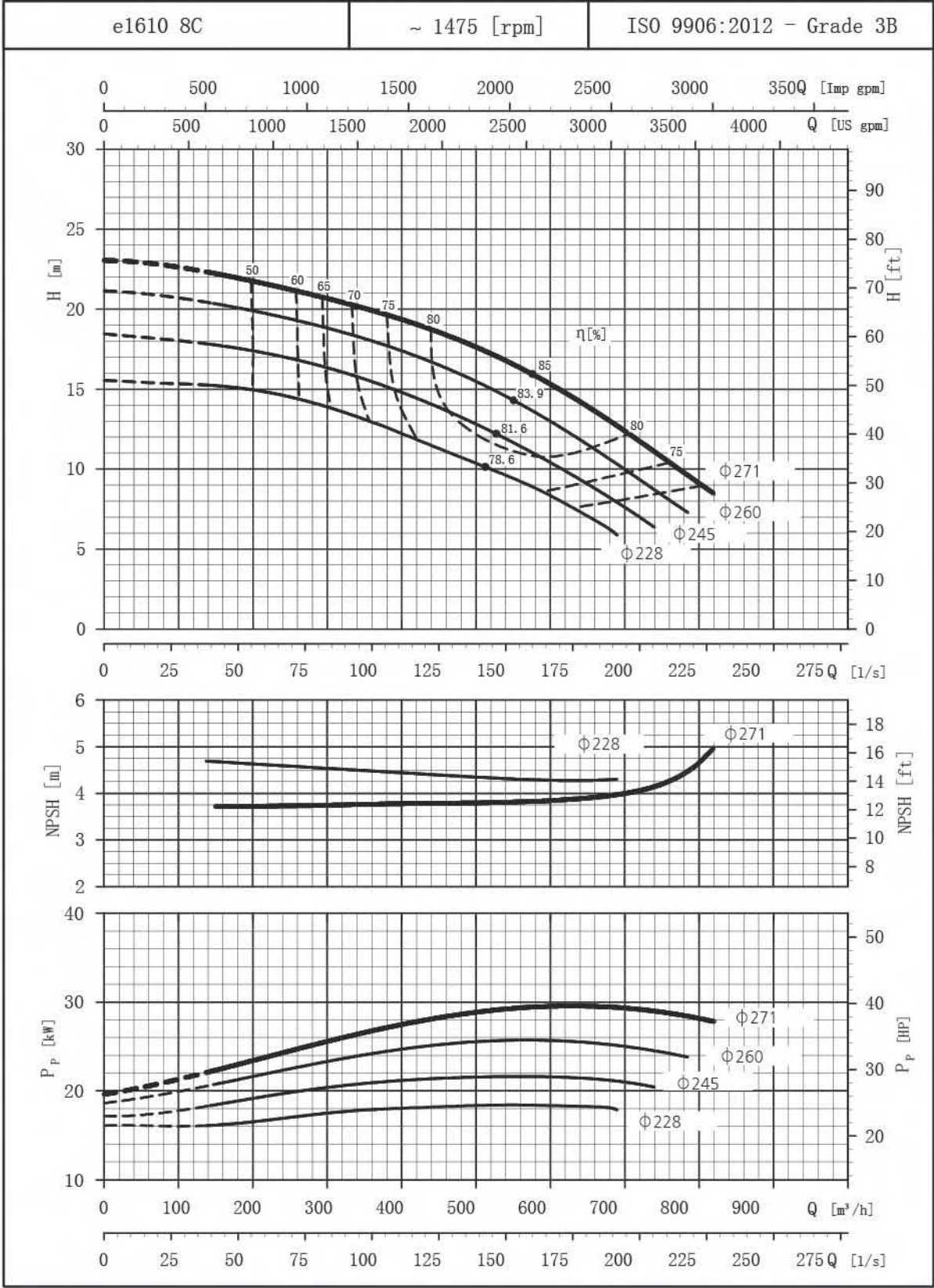
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density P=1.0kg/dm³ and kinematic viscosity v=1mm²/seconel.

e1610 Series Operating characteristics at 50Hz,4Poles



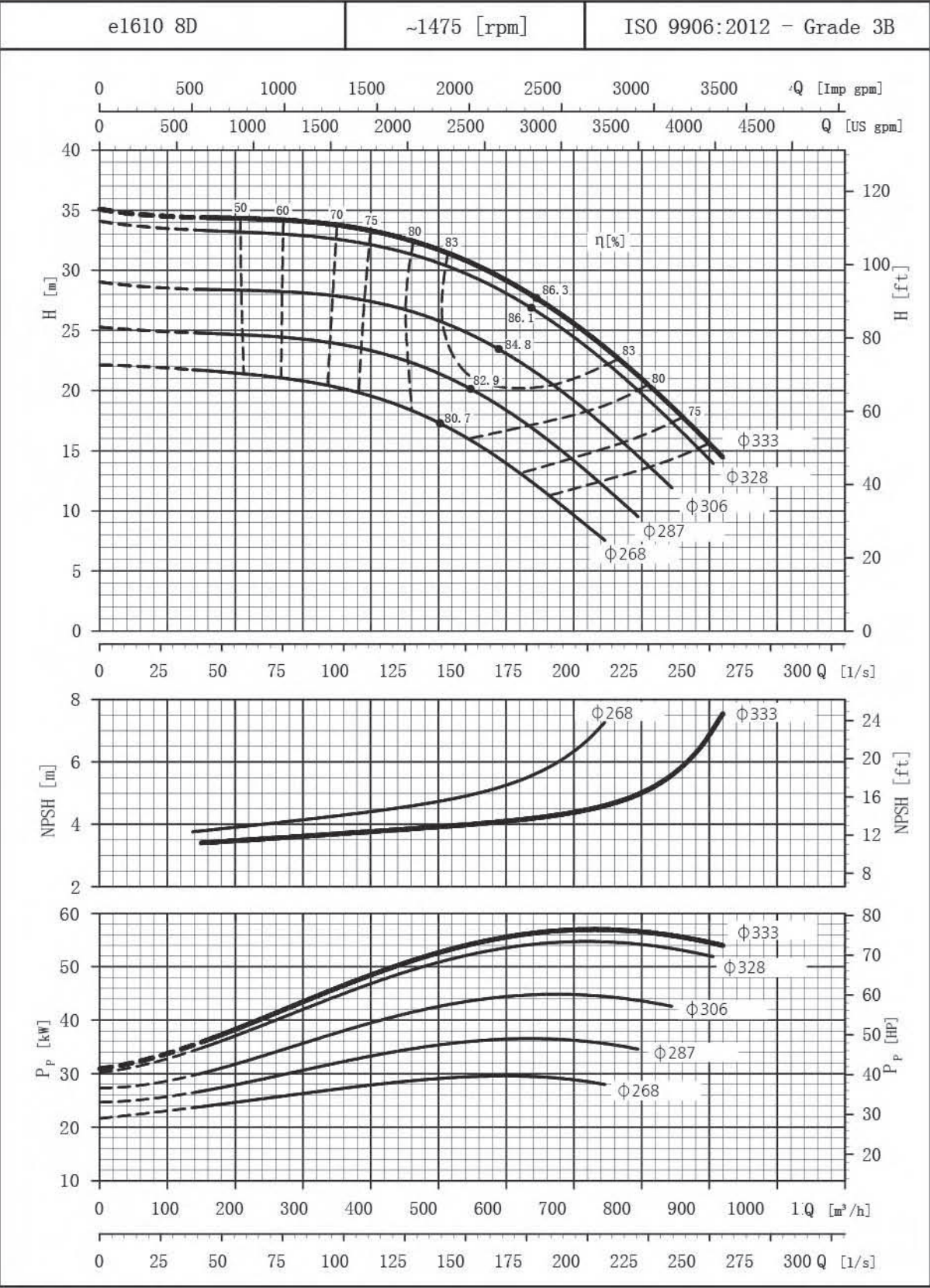
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density P=1.0kg/dm³ and kinematic viscosity v=1mm²/seconel.

e1610 Series Operating characteristics at 50Hz,4Poles



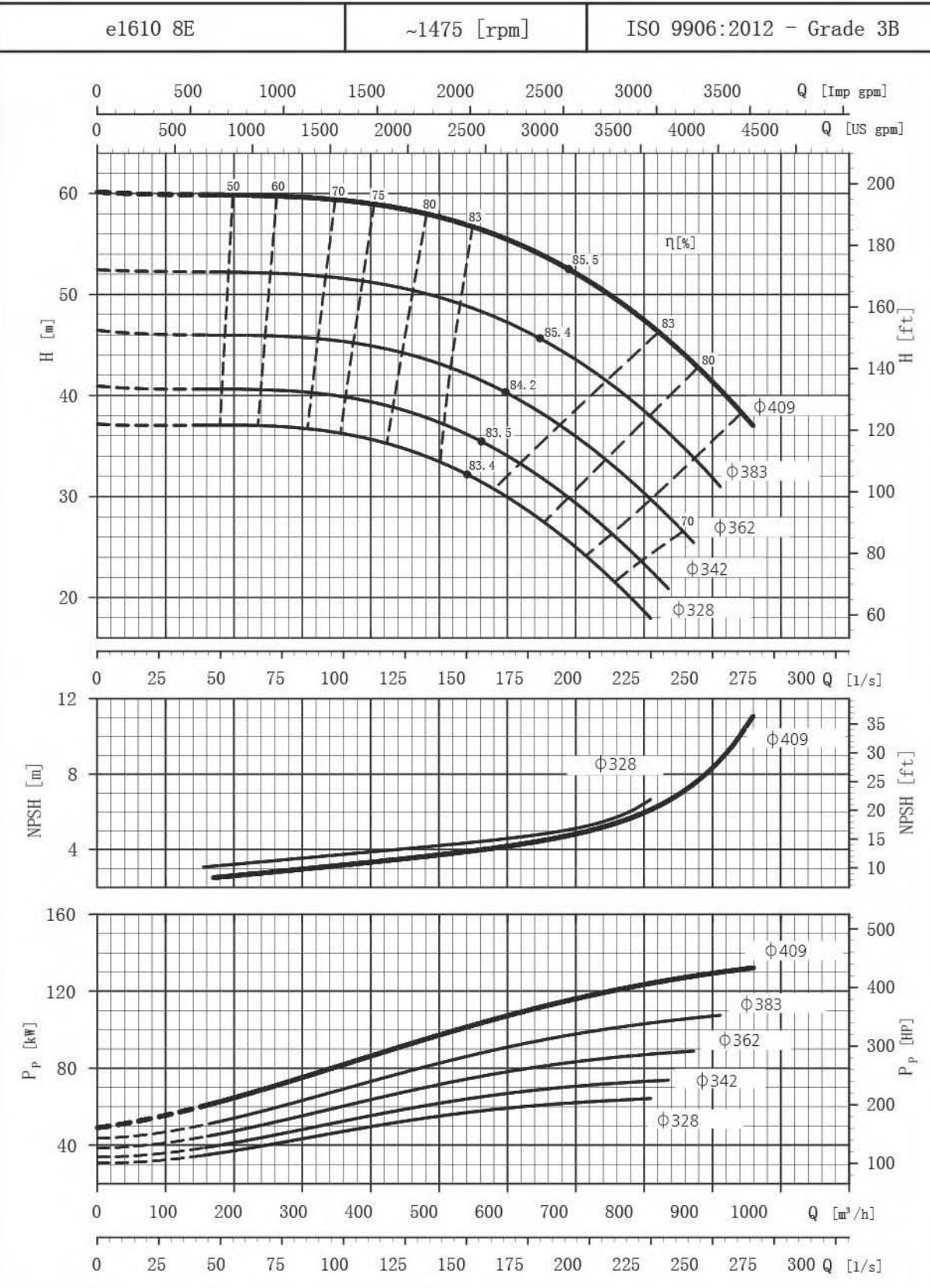
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density P=1.0kg/dm³ and kinematic viscosity v=1mm²/seconel.

e1610 Series Operating characteristics at 50Hz,4Poles



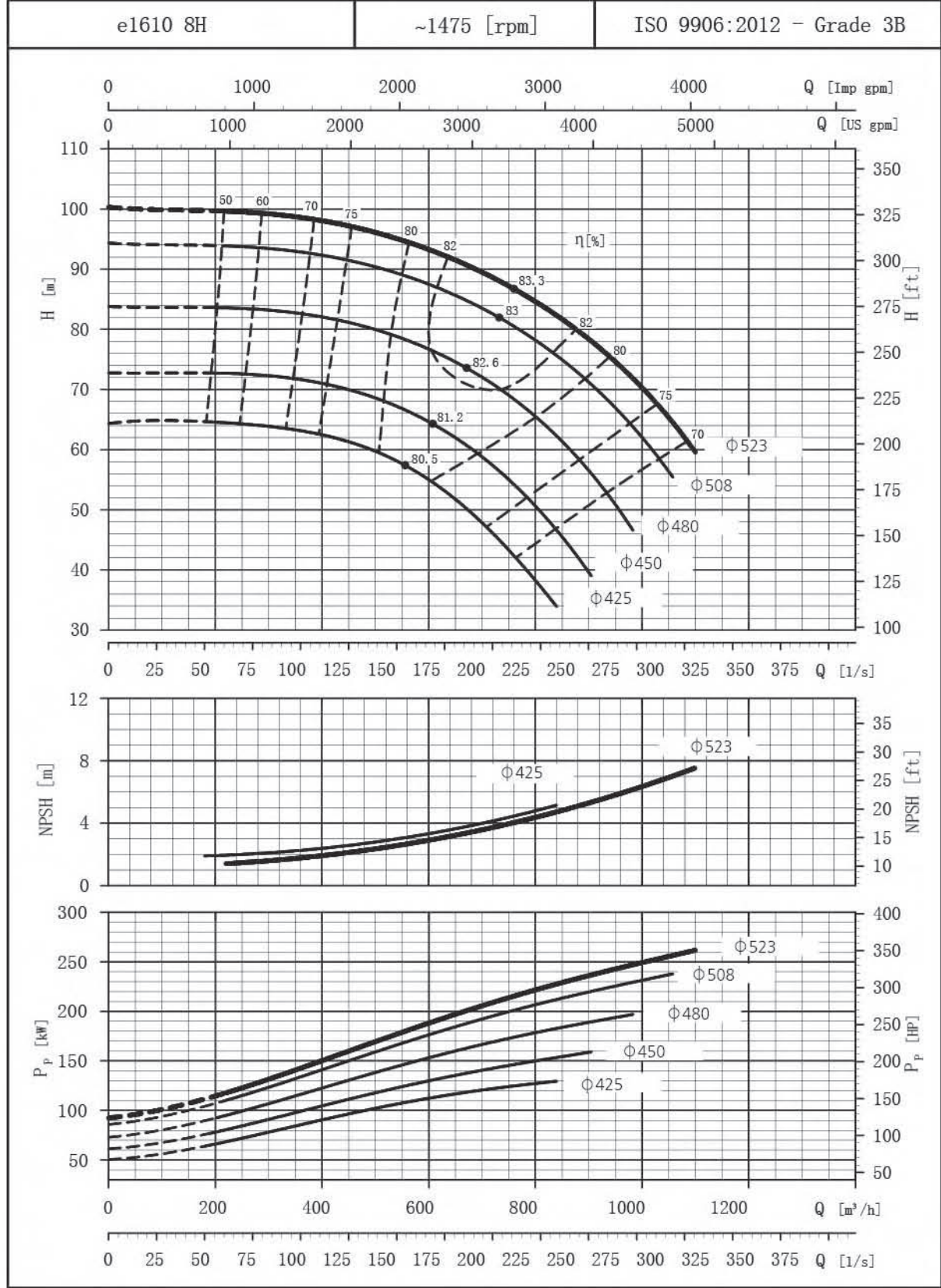
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density P=1.0kg/dm³ and kinematic viscosity v=1mm²/seconel.

e1610 Series Operating characteristics at 50Hz,4Poles



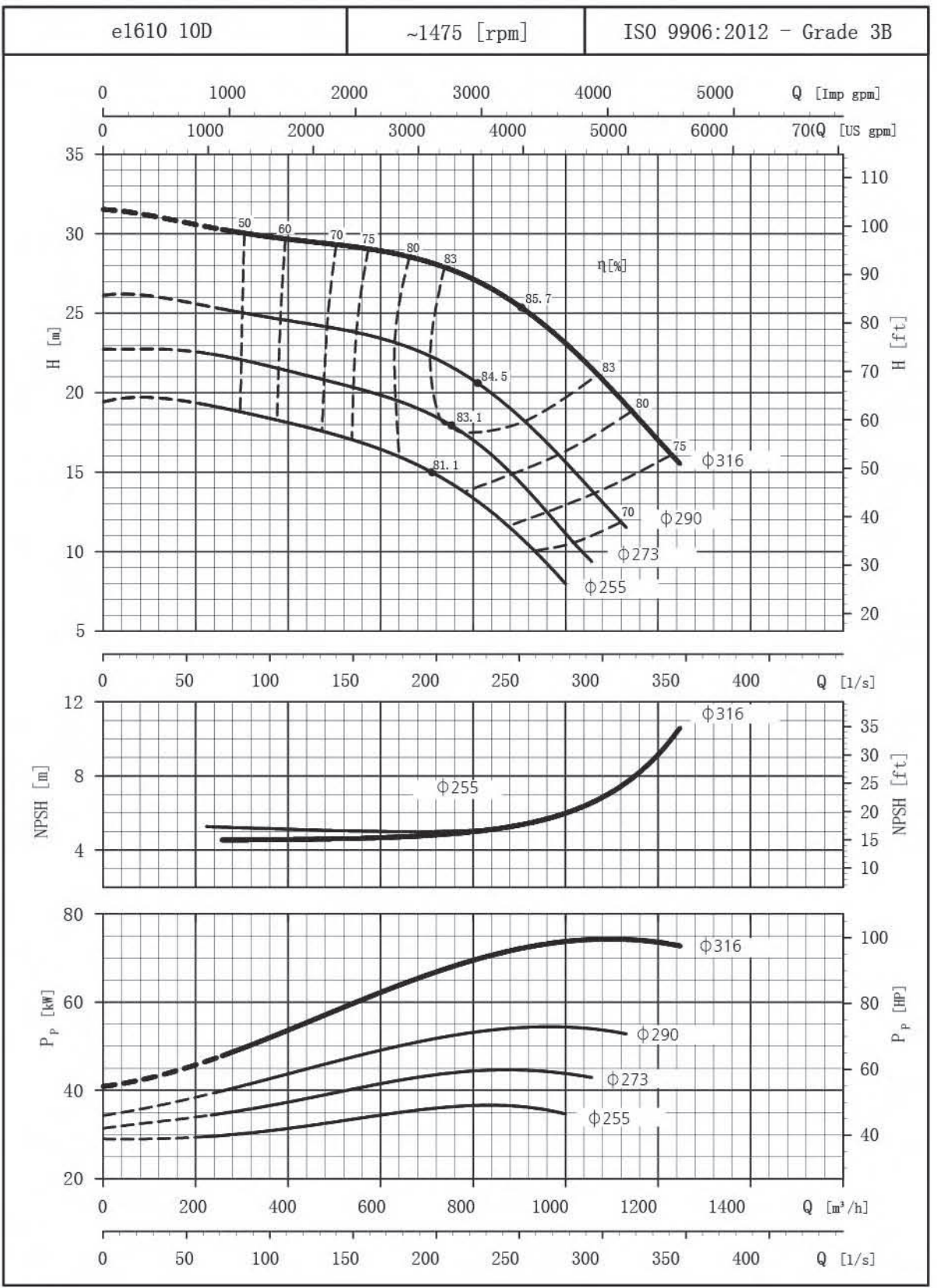
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density P=1.0kg/dm³ and kinematic viscosity v=1mm²/seconel.

e1610 Series Operating characteristics at 50Hz,4Poles



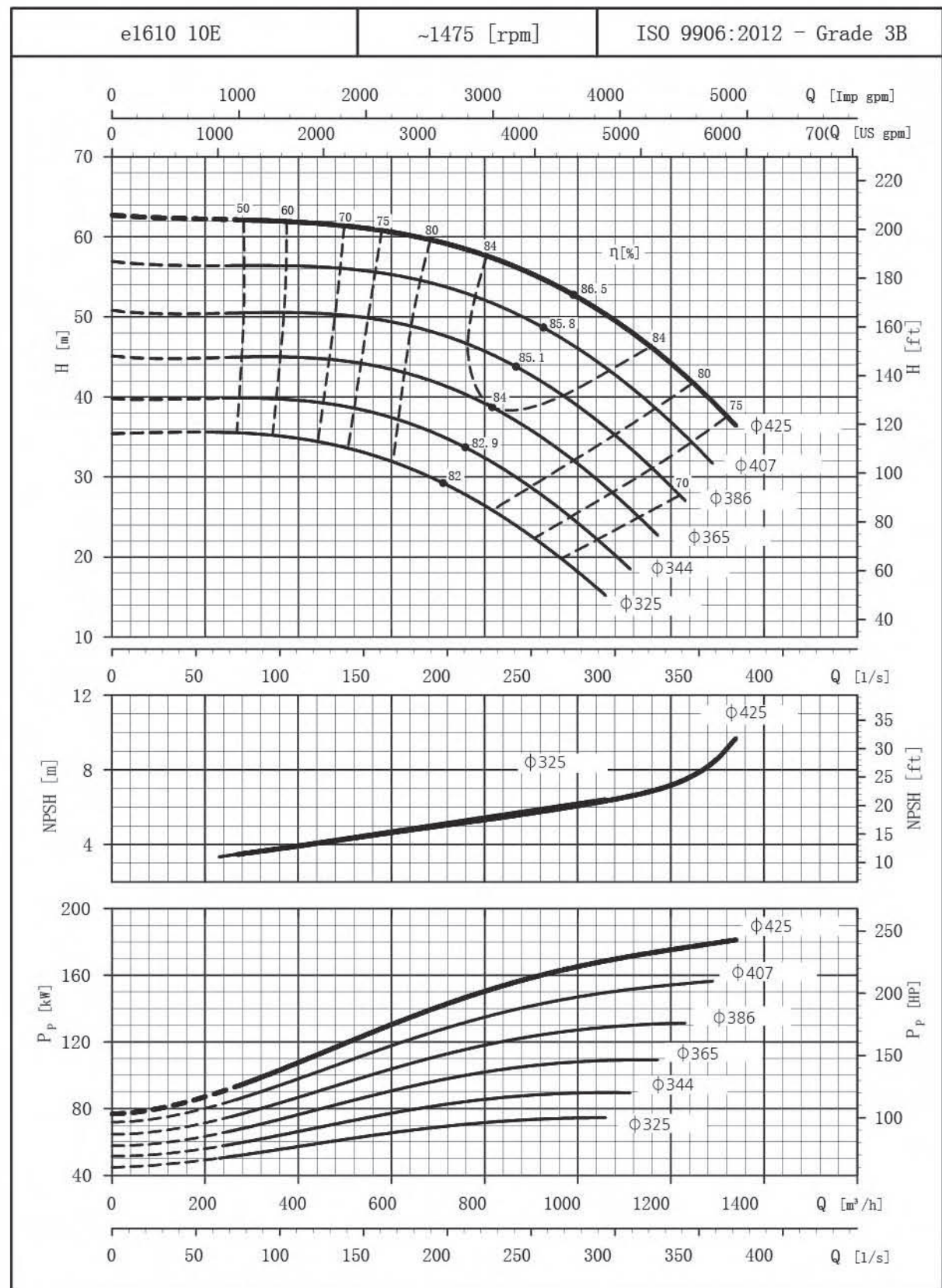
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density P=1.0kg/dm³ and kinematic viscosity v=1mm²/seconel.

e1610 Series Operating characteristics at 50Hz,4Poles



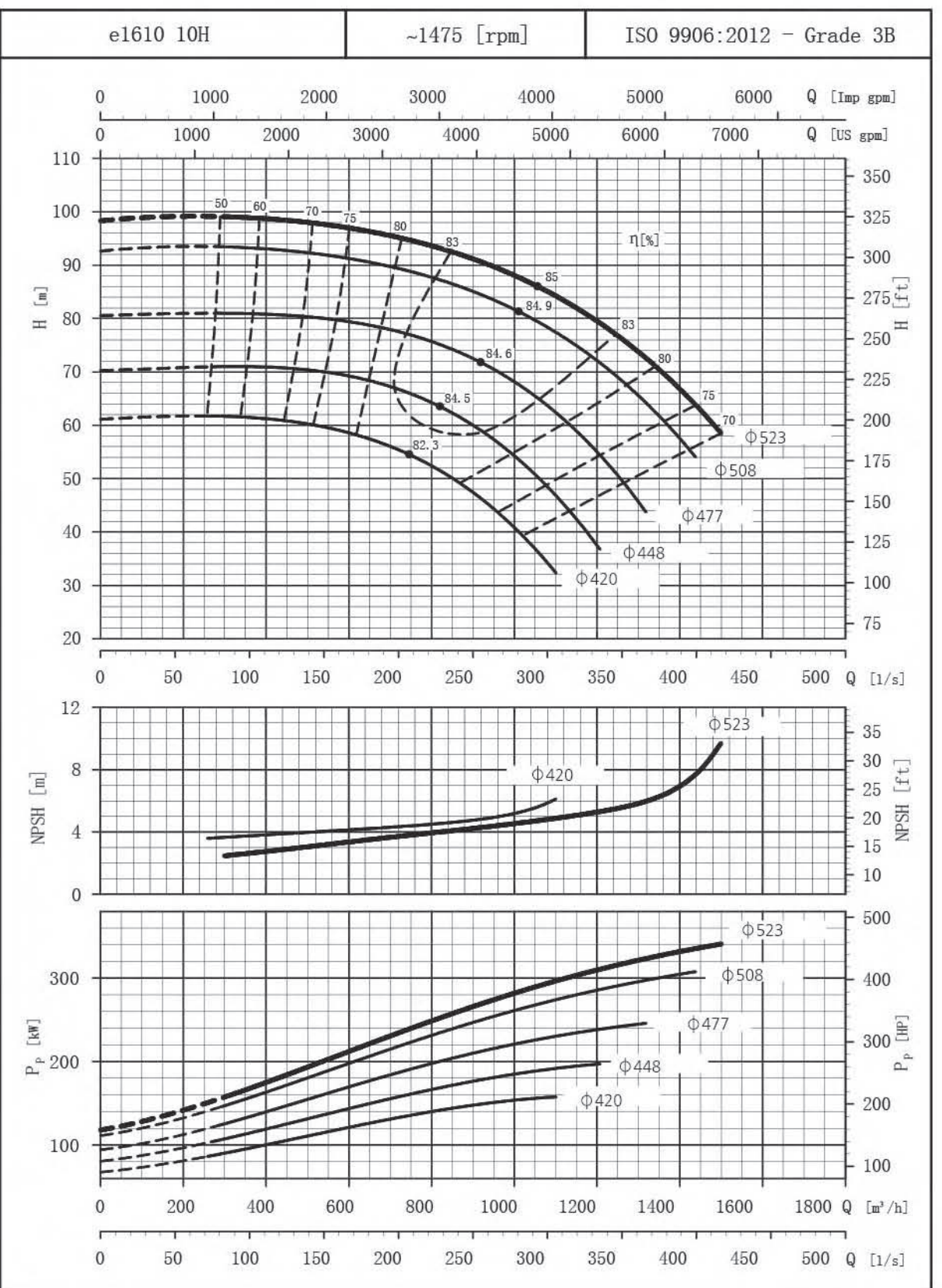
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density P=1.0kg/dm³ and kinematic viscosity v=1mm²/seconel.

e1610 Series Operating characteristics at 50Hz,4Poles



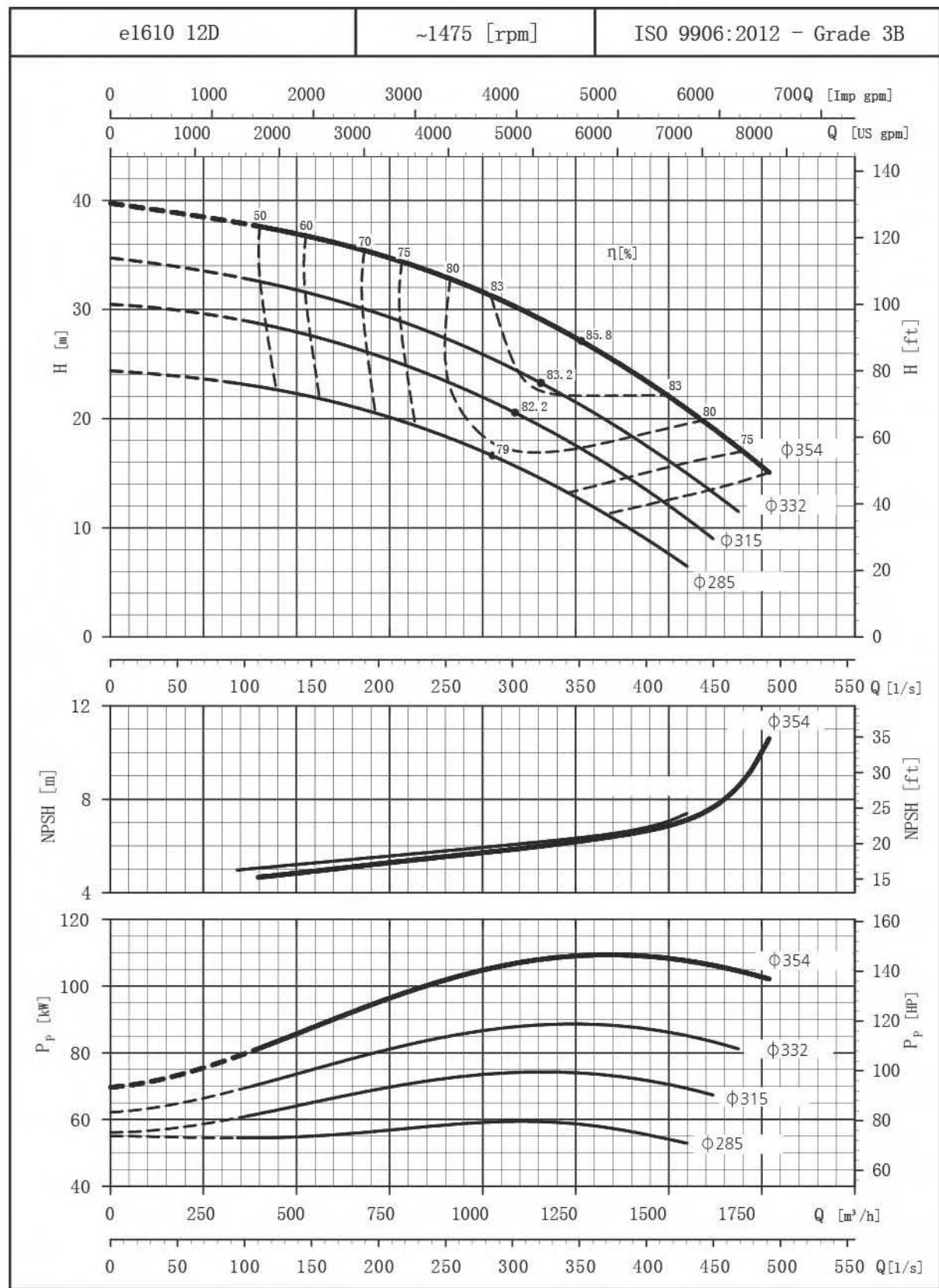
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density $P=1.0\text{kg/dm}^3$ and kinematic viscosity $v=1\text{mm}^2/\text{second}$ l.

e1610 Series Operating characteristics at 50Hz,4Poles



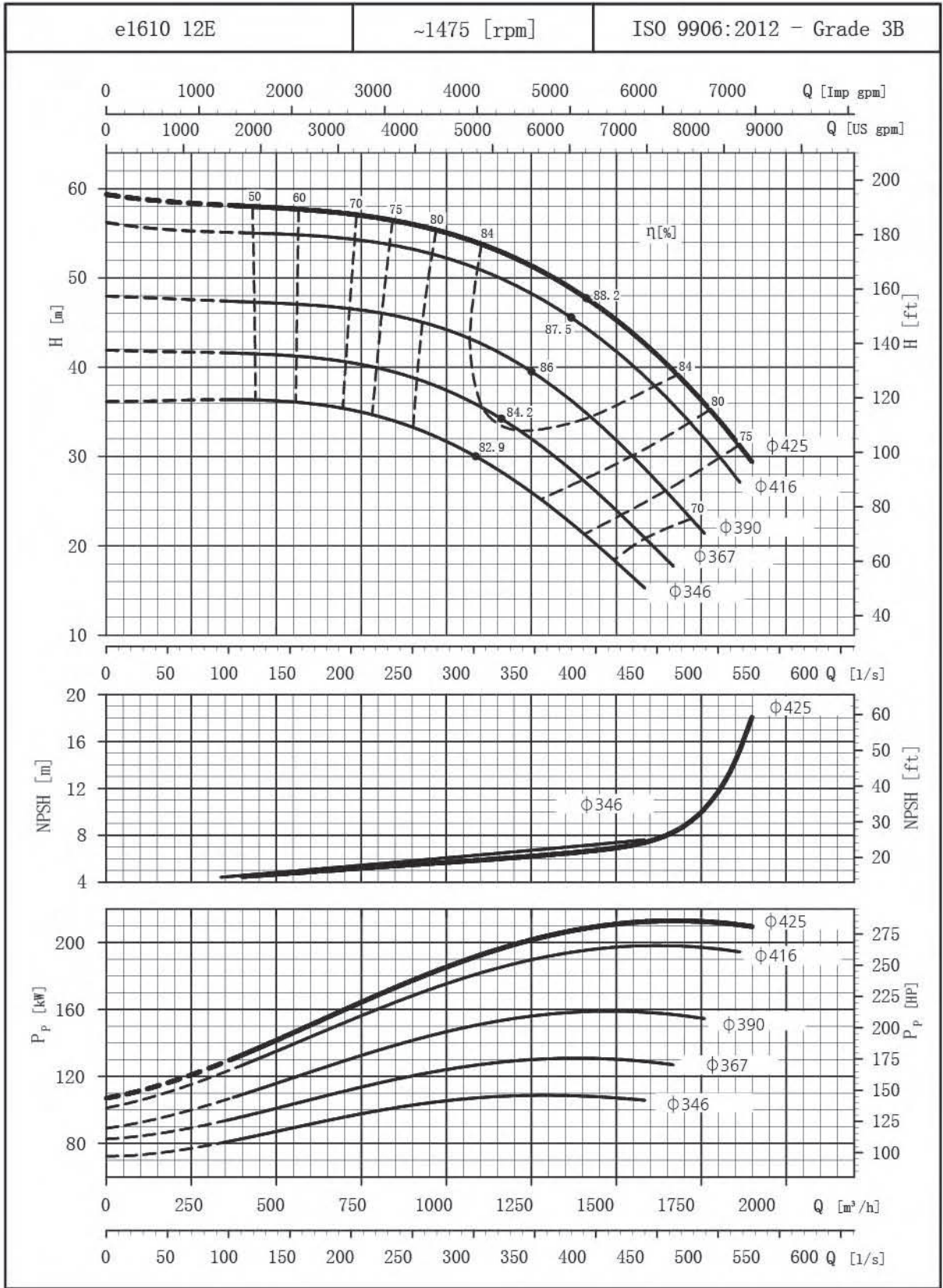
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density $P=1.0\text{kg/dm}^3$ and kinematic viscosity $v=1\text{mm}^2/\text{second}$ l.

e1610 Series Operating characteristics at 50Hz,4Poles



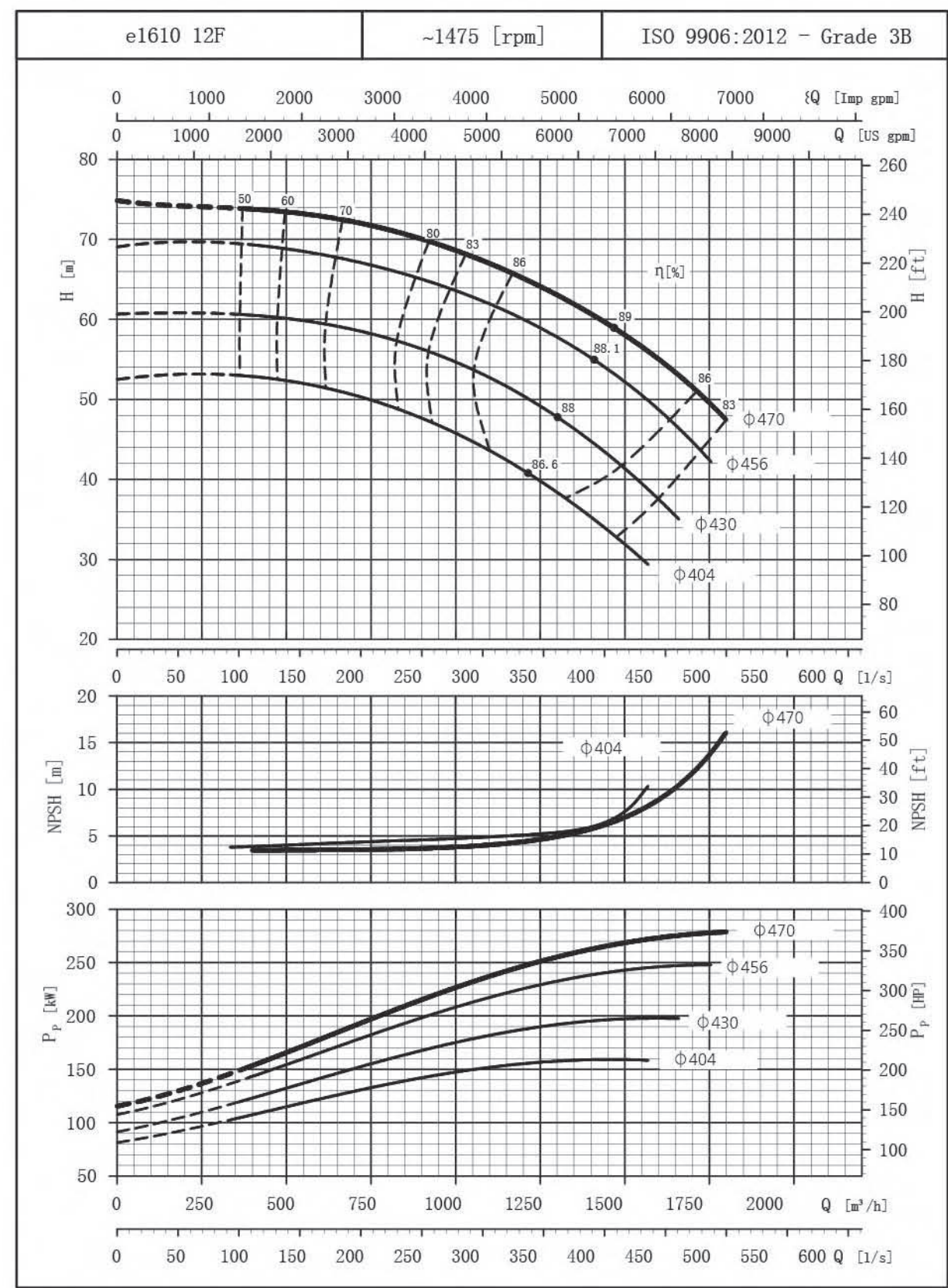
The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density P=1.0kg/dm³ and kinematic viscosity v=1mm²/seconel.

e1610 Series Operating characteristics at 50Hz,4Poles



The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density P=1.0kg/dm³ and kinematic viscosity v=1mm²/seconel.

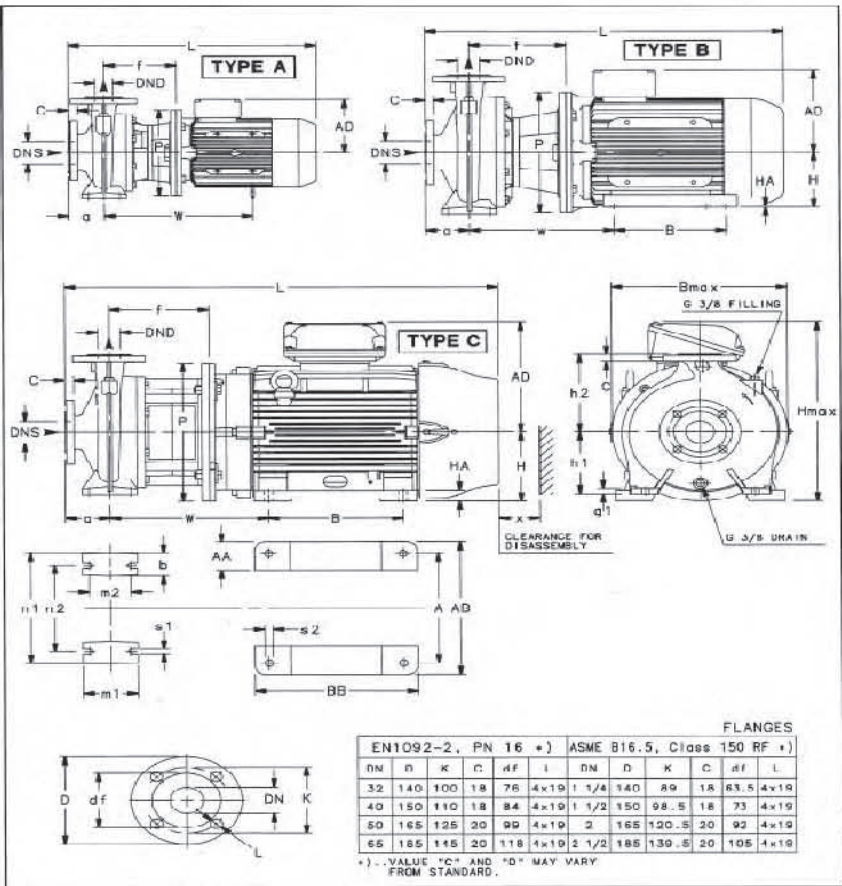
e1610 Series Operating characteristics at 50Hz,4Poles



The NPSH Values are laboratory values;for practicalues we suggest increasing these values by 0.5m
The performances are valied for luquids with density $P=1.0\text{kg/dm}^3$ and kinematic viscosity $v=1\text{mm}^2/\text{second}$ l.

e1631 Series Pump set Dimensions and weight

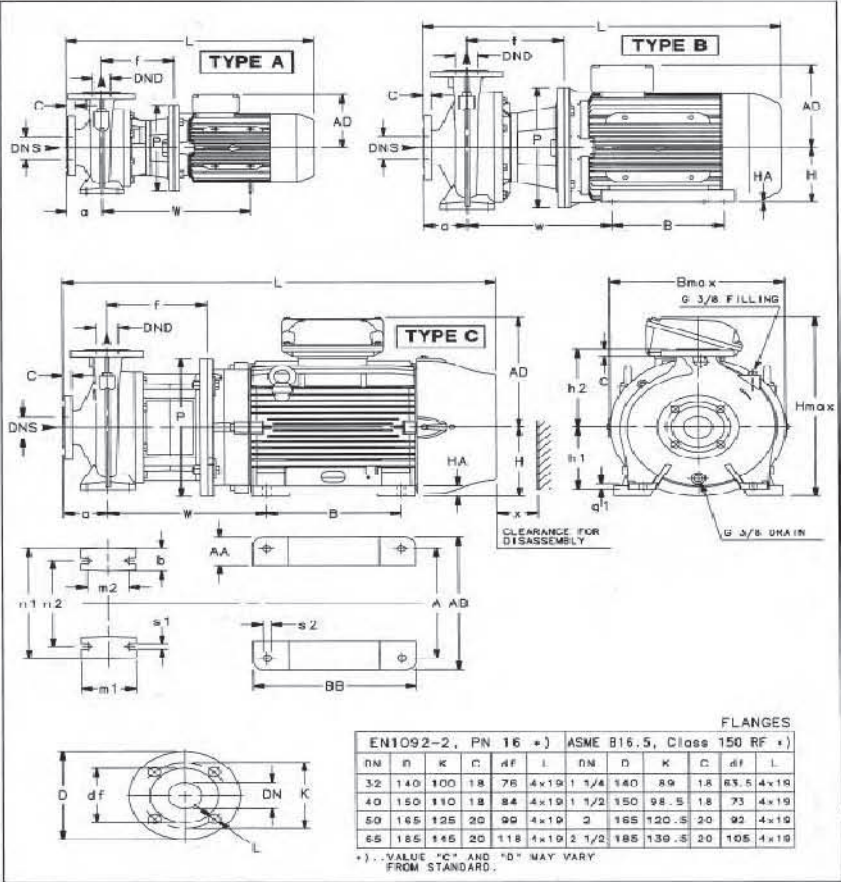
e1631 1.25,1.5,2 series pump set dimensions and weight(50Hz,2Poles)



PUMP TYPE	TYPE	Dimensions(mm)																	MOTOR		Bmax	Hmax	L	x	WEIGHT (kg)					
		DNS	DND	a	b	f	g1	h1	h2	m1	m2	n1	n2	P	s1	W	A	AA	AB	AD						B	BB	H	HA	s2
e1631 1.25AS 1.1KW 2P	A	50	32	80	50	155	14	112	140	100	70	190	140	200	14	290	-	-	-	129	-	-	-	-	-	242	252	540	86	33
e1631 1.25AS 1.5KW 2P	A	50	32	80	50	155	14	112	140	100	70	190	140	200	14	290	-	-	-	129	-	-	-	-	-	242	252	595	86	34
e1631 1.25AS 2.2KW 2P	A	50	32	80	50	155	14	112	140	100	70	190	140	200	14	300	-	-	-	134	-	-	-	-	-	242	252	625	86	38
e1631 1.25AS 3KW 2P	A	50	32	80	50	165	14	112	140	100	70	190	140	250	14	310	-	-	-	134	-	-	-	-	-	250	265	680	86	43
e1631 1.25A 2.2KW 2P	A	50	32	80	50	155	14	132	160	100	70	240	190	200	14	300	-	-	-	134	-	-	-	-	-	248	292	625	86	40
e1631 1.25A 3KW 2P	A	50	32	80	50	165	14	132	160	100	70	240	190	250	14	310	-	-	-	134	-	-	-	-	-	250	292	680	86	44
e1631 1.25A 4KW 2P	A	50	32	80	50	165	14	132	160	100	70	240	190	250	14	338	-	-	-	154	-	-	-	-	-	250	292	685	86	47
e1631 1.25A 5.5KW 2P	A	50	32	80	50	192	14	132	160	100	70	240	190	300	14	399	-	-	-	168	-	-	-	-	-	300	318	782	86	56
e1631 1.25B 3KW 2P	A	50	32	80	50	165	14	160	180	100	70	240	190	250	14	310	-	-	-	134	-	-	-	-	-	286	340	680	86	50
e1631 1.25B 4KW 2P	A	50	32	80	50	165	14	160	180	100	70	240	190	250	14	338	-	-	-	154	-	-	-	-	-	286	340	685	86	54
e1631 1.25B 5.5KW 2P	A	50	32	80	50	192	14	160	180	100	70	240	190	300	14	399	-	-	-	168	-	-	-	-	-	300	340	782	86	63
e1631 1.25B 7.5KW 2P	A	50	32	80	50	192	14	160	180	100	70	240	190	300	14	397	-	-	-	191	-	-	-	-	-	300	351	782	86	80
e1631 1.25C 7.5KW 2P	A	50	32	100	65	192	21	180	225	125	95	320	250	300	14	305	-	-	-	191	-	-	-	-	-	334	405	802	95	80
e1631 1.25C 11KW 2P	B	50	32	100	65	222	21	180	225	125	95	320	250	350	14	330	254	49	304	240	210	304	160	5	15	350	420	1052	95	114
e1631 1.25C 15KW 2P	B	50	32	100	65	222	21	180	225	125	95	320	250	350	14	330	254	49	304	240	210	304	160	5	15	350	420	1052	95	128
e1631 1.5AS 1.5KW 2P	A	65	40	80	50	155	14	112	140	100	70	210	160	200	14	290	-	-	-	129	-	-	-	-	-	237	252	595	96	35
e1631 1.5AS 2.2KW 2P	A	65	40	80	50	155	14	112	140	100	70	210	160	200	14	300	-	-	-	134	-	-	-	-	-	237	252	625	96	39
e1631 1.5AS 3KW 2P	A	65	40	80	50	165	14	112	140	100	70	210	160	250	14	310	-	-	-	134	-	-	-	-	-	250	265	680	96	44
e1631 1.5AS 4KW 2P	A	65	40	80	50	165	14	112	140	100	70	210	160	250	14	338	-	-	-	154	-	-	-	-	-	250	265	685	96	47
e1631 1.5A 3KW 2P	A	65	40	80	50	165	14	132	160	100	70	240	190	250	14	310	-	-	-	134	-	-	-	-	-	250	292	680	92	46
e1631 1.5A 4KW 2P	A	65	40	80	50	165	14	132	160	100	70	240	190	250	14	338	-	-	-	154	-	-	-	-	-	250	292	685	92	49
e1631 1.5A 5.5KW 2P	A	65	40	80	50	192	14	132	160	100	70	240	190	300	14	399	-	-	-	168	-	-	-	-	-	300	318	782	92	60
e1631 1.5A 7.5KW 2P	A	65	40	80	50	192	14	132	160	100	70	240	190	300	14	397	-	-	-	191	-	-	-	-	-	300	341	782	92	77
e1631 1.5B 5.5KW 2P	A	65	40	100	50	192	14	160	180	100	70	265	212	300	14	399	-	-	-	168	-	-	-	-	-	300	340	802	90	64
e1631 1.5B 7.5KW 2P	A	65	40	100	50	192	14	160	180	100	70	265	212	300	14	397	-	-	-	191	-	-	-	-	-	300	351	802	90	91
e1631 1.5B 11KW 2P	B	65	40	100	50	222	14	160	180	100	70	265	212	350	14	330	254	49	304	240	210	304	160	5	15	350	420	1052	90	119
e1631 1.5C 11KW 2P	B	65	40	100	65	222	16	180	225	125	95	320	250	350	14	330	254	49	304	240	210	304	160	5	15	350	420	1052	104	130
e1631 1.5C 15KW 2P	B	65	40	100	65	222	16	180	225	125	95	320	250	350	14	330	254	49	304	240	210	304	160	5	15	350	420	1052	104	144
e1631 1.5C 18.5KW 2P	B	65	40	100	65	222	16	180	225	125	95	320	250	350	14	330	254	49	304	240	254	304	160	5	15	350	420	1082	104	154
e1631 1.5C 22KW 2P	B	65	40	100	65	222	16	180	225	125	95	320	250	350	14	330	254	49	304	240	254	304	160	5	15	350	420	1101	104	155
e1631 2AS 3KW 2P	A	65	50	100	50	167	14	132	160	100	70	240	190	250	14	312	-	-	-	134	-	-	-	-	-	255	292	702	107	47
e1631 2AS 4KW 2P	A	65	50	100	50	167	14	132	160	100	70	240	190	250	14	340	-	-	-	154	-	-	-	-	-	255	292	707	107	50
e1631 2AS 5.5KW 2P	A	65	50	100	50	194	14	132	160	100	70	240	190	300	14	401	-	-	-	168	-	-	-	-	-	300	318	804	107	65
e1631 2AS 7.5KW 2P	A	65	50	100	50	194	14	132	160	100	70	240	190	300	14	399	-	-	-	191	-	-	-	-	-	300	341	804	107	82
e1631 2A 5.5KW 2P	A	65	50	100	50	192	14	160	180	100	70	265	212	300	14	399	-	-	-	168	-	-	-	-	-	300	340	802	103	67
e1631 2A 7.5KW 2P	A	65	50	100	50	192	14	160	180	100	70	265	212	300	14	397	-	-	-	191	-	-	-	-	-	300	351	802	103	84
e1631 2A 11KW 2P	B	65	50	100	50	222	14	160	180	100	70	265	212	350	14	330	254	49	304	240	210	304	160	5	15	350	420	1052	103	122
e1631 2B 11KW 2P	B	65	50	100	50	222	14	160	200	100	70	265	212	350	14	332	254	49	304	240	210	304	160	5	15	350	380	1052	98	122
e1631 2B 15KW 2P	B	65	50	100	50	222	14	160	200	100	70	265	212	350	14	332	254	49	304	240	210	304	160	5	15	350	420	1052	98	139
e1631 2B 18.5KW 2P	B	65	50	100	50	222	14	160	200	100	70	265	212	350	14	332	254	49	304	240	254	304	160	5	15	350	420	1082	98	149
e1631 2C 15KW 2P	B	65	50	100	65	222	16	180	225	125	95	320	250	350	14	330	254	49	304	240	210	304	160	5	15	352	420	1052	110	145

e1631 Series Pump set Dimensions and weight

e1631 1.25,1.5,2 series pump set dimensions and weight(50Hz,2Poles)



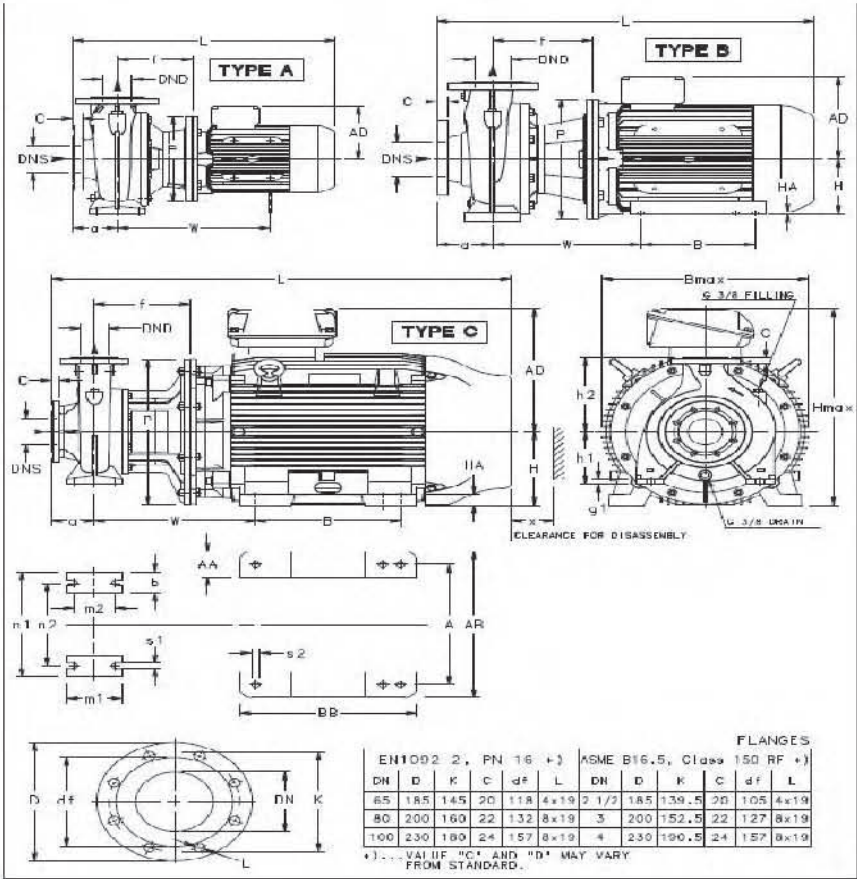
PUMP TYPE	TYPE	Dimensions(mm)																							Bmax	Hmax	L	x	WEIGHT (kg)	
		PUMP													MOTOR															
		DNS	DND	a	b	f	g1	h1	h2	m1	m2	n1	n2	P	s1	W	A	AA	AB	AD	B	BB	H	HA						s2
e1631 2C 18.5KW 2P	B	65	50	100	65	222	16	180	225	125	95	320	250	350	14	330	254	49	304	240	254	304	160	5	15	352	420	1082	110	155
e1631 2C 22KW 2P	B	65	50	100	65	222	16	180	225	125	95	320	250	350	14	330	254	49	304	240	254	304	160	5	15	352	420	1101	110	166
e1631 2C 30KW 2P	B	65	50	100	65	228	16	180	225	125	95	320	250	400	14	361	318	82	385	317	305	370	200	30	18	402	517	1128	110	260
e1631 2D 37KW 2P	B	65	50	125	65	246	14	225	280	125	95	345	280	400	15	379	318	82	385	317	305	370	200	30	19	413	542	1171	140	354
e1631 2D 45KW 2P	B	65	50	125	65	246	14	225	280	125	95	345	280	450	15	395	356	80	436	384	311	412	225	34	19	450	609	1186	140	510
e1631 2D 55KW 2P	C	65	50	125	65	276	14	225	280	125	95	345	280	550	15	444	406	100	506	402	349	467	250	43	24	550	682	1311	140	592
e1631 2D 75KW 2P	C	65	50	125	65	276	14	225	280	125	95	345	280	550	15	466	457	100	557	472	368	517	280	42	24	550	752	1386	140	834

For shims and supports see accessories section.

Note:Pumps with flanges according to EN 1092-2(GB/T17241.6) as standard;available ASME B16.5 Version on request.

e1631 Series Pump set Dimensions and weight

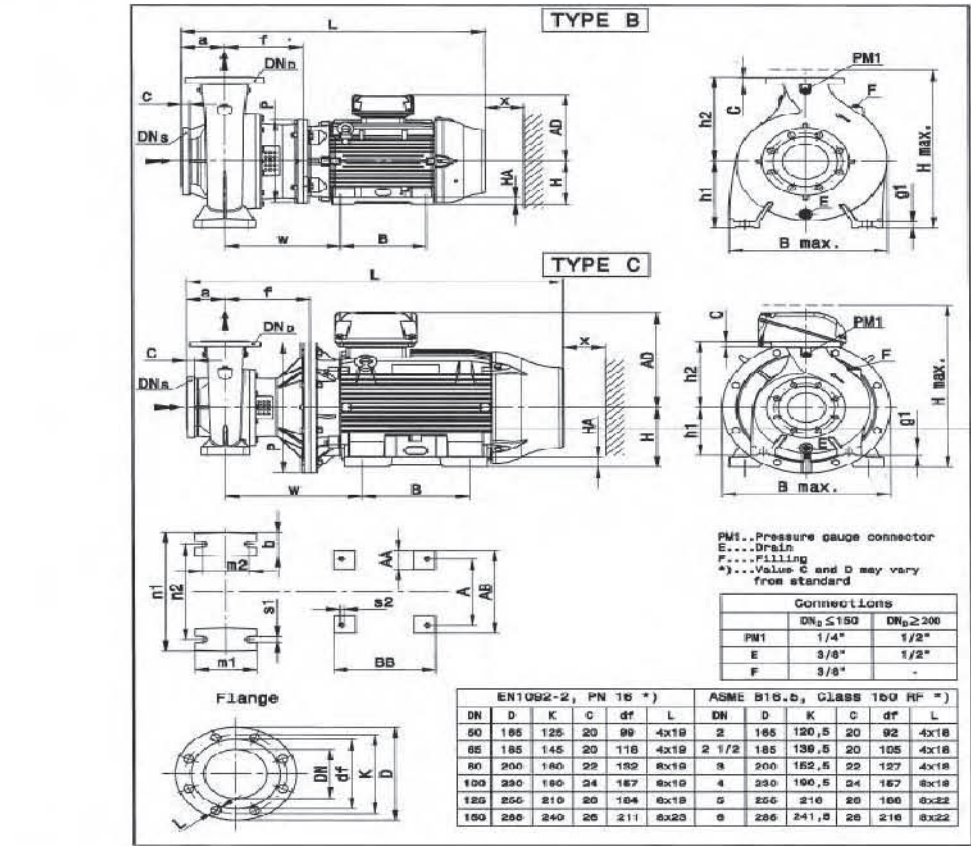
e1631 2.5,3.25 series pump set dimensions and weight(50Hz,2Poles)



PUMP TYPE	TYPE	Dimensions(mm)																							Bmax	Hmax	L	x	WEIGHT (kg)	
		PUMP										MOTOR																		
		DNS	DND	a	b	f	g1	h1	h2	m1	m2	n1	n2	P	s1	W	A	AA	AB	AD	B	BB	H	HA						s2
e1631 2.5AS 4KW 2P	A	80	65	100	65	167	16	160	180	125	95	280	212	250	14	340	-	-	-	154	-	-	-	-	-	300	340	707	100	62
e1631 2.5AS 5.5KW 2P	A	80	65	100	65	194	16	160	180	125	95	280	212	300	14	401	-	-	-	168	-	-	-	-	-	300	340	804	100	72
e1631 2.5AS 7.5KW 2P	A	80	65	100	65	194	16	160	180	125	95	280	212	300	14	401	-	-	-	191	-	-	-	-	-	300	351	804	100	90
e1631 2.5AS 11KW 2P	B	80	65	100	65	224	16	160	180	125	95	280	212	350	14	332	254	49	304	240	210	304	160	5	15	350	420	1054	100	99
e1631 2.5A 7.5KW 2P	A	80	65	100	65	192	16	160	200	125	95	280	212	300	14	399	-	-	-	191	-	-	-	-	-	335	360	802	108	93
e1631 2.5A 11KW 2P	B	80	65	100	65	222	16	160	200	125	95	280	212	350	14	330	254	49	304	240	210	304	160	5	15	350	420	1052	108	131
e1631 2.5A 15KW 2P	B	80	65	100	65	222	16	160	200	125	95	280	212	350	14	330	254	49	304	240	210	304	160	5	15	350	420	1052	108	146
e1631 2.5A 18.5KW 2P	B	80	65	100	65	222	16	160	200	125	95	280	212	350	14	330	254	49	304	240	254	304	160	5	15	350	420	1082	108	155
e1631 2.5B 11KW 2P	B	80	65	100	65	222	16	180	225	125	95	320	250	350	14	330	254	49	304	191	210	304	160	5	15	350	405	1052	118	136
e1631 2.5B 15KW 2P	B	80	65	100	65	222	16	180	225	125	95	320	250	350	14	330	254	49	304	240	210	304	160	5	15	350	420	1052	118	151
e1631 2.5B 18.5KW 2P	B	80	65	100	65	222	16	180	225	125	95	320	250	350	14	330	254	49	304	240	254	304	160	5	15	350	420	1082	118	161
e1631 2.5B 22KW 2P	B	80	65	100	65	222	16	180	225	125	95	320	250	350	14	330	254	49	304	240	254	304	160	5	15	350	420	1101	118	172
e1631 2.5B 30KW 2P	B	80	65	100	65	228	16	180	225	125	95	320	250	400	14	361	318	82	385	317	305	370	200	30	18	400	517	1128	118	290
e1631 2.5C 22KW 2P	B	80	65	100	80	240	21	200	250	160	120	360	280	350	20	348	254	49	304	240	254	304	160	5	15	365	450	1119	130	175
e1631 2.5C 30KW 2P	B	80	65	100	80	246	21	200	250	160	120	360	280	400	20	379	318	82	385	317	305	370	200	30	18	402	517	1146	130	275
e1631 2.5C 37KW 2P	B	80	65	100	80	246	21	200	250	160	120	360	280	400	20	379	318	82	385	317	305	370	200	30	18	402	517	1146	130	290
e1631 2.5C 45KW 2P	B	80	65	100	80	246	21	200	250	160	120	360	280	450	20	395	356	80	436	384	311	412	225	34	18	455	609	1161	130	435
e1631 2.5C 55KW 2P	B	80	65	100	80	276	21	200	250	160	120	360	280	550	20	444	406	100	506	402	349	467	250	43	24	550	682	1286	130	520
e1631 2.5D 55KW 2P	C	80	65	125	80	276	20	225	280	160	120	400	315	550	19	444	406	100	506	402	349	467	250	43	24	550	682	1311	140	599
e1631 2.5D 75KW 2P	C	80	65	125	80	276	20	225	280	160	120	400	315	550	19	466	457	100	557	472	368	517	280	42	24	550	752	1386	140	842
e1631 2.5D 90KW 2P	C	80	65	125	80	276	20	225	280	160	120	400	315	550	19	466	457	100	557	472	419	517	280	42	24	550	752	1436	140	877
e1631 3.25A 11KW 2P	B	100	80	125	65	222	16	180	225	125	95	320	250	350	14	330	254	49	304	191	210	304	160	5	15	350	405	1077	122	145
e1631 3.25A 15KW 2P	B	100	80	125	65	222	16	180	225	125	95	320	250	350	14	330	254	49	304	240	210	304	160	5	15	350	420	1077	122	160
e1631 3.25A 18.5KW 2P	B	100	80	125	65	222	16	180	225	125	95	320	250	350	14	330	254	49	304	240	254	304	160	5	15	350	420	1107	122	170
e1631 3.25A 22KW 2P	B	100	80	125	65	222	16	180	225	125	95	320	250	350	14	330	254	49	304	240	254	304	160	5	15	350	420	1126	122	181
e1631 3.25B 22KW 2P	B	100	80	125	65	240	16	180	250	125	95	345	280	350	14	348	254	49	304	240	254	304	160	5	15	358	430	1144	151	180
e1631 3.25B 30KW 2P	B	100	80	125	65	246	16	180	250	125	95	345	280	400	14	379	318	82	385	317	305	370	200	30	18	402	517	1171	151	280
e1631 3.25B 37KW 2P	B	100	80	125	65	246	16	180	250	125	95	345	280	400	14	379	318	82	385	317	305	370	200	30	18	402	517	1171	151	295
e1631 3.25B 45KW 2P	B	100	80	125	65	246	16	180	250	125	95	345	280	450	14	395	356	80	436	384	311	412	225	34	18	455	609	1186	151	440
e1631 3.25C 37KW 2P	B	100	80	125	80	246	21	200	280	160	120	400	315	400	20	379	318	82	385	317	305	370	200	30	18	402	517	1171	152	310
e1631 3.25C 45KW 2P	B	100	80	125	80	246	21	200	280	160	120	400	315	450	20	379	356	80	436	384	311	412	225	34	18	455	609	1186	152	450
e1631 3.25C 55KW 2P	B	100	80	125	80	276	21	200	280	160	120	400	315	550	20	444	406	100	506	402	349	467	250	43	24	550	682	1311	152	535
e1631 3.25C 75KW 2P	B	100	80	125	80	276	21	200	280	160	120	400	315	550	20	466	457	100	557	472	419	517	280	42	24	550	752	1386	152	849

e1631 Series Pump set Dimensions and weight

e1631 4,5 series pump set dimensions and weight(50Hz,2Poles)



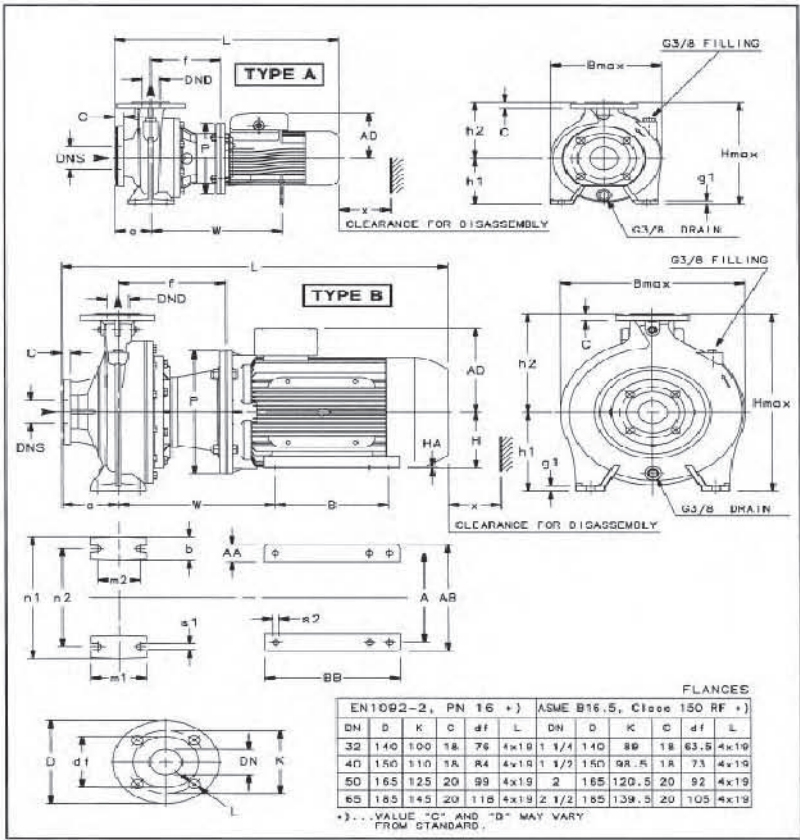
PUMP TYPE	TYPE	Dimensions(mm)																							Bmax	Hmax	L	x	WEIGHT (kg)	
		PUMP													MOTOR															
		DN5	DND	a	b	f	g1	h1	h2	m1	m2	n1	n2	P	s1	W	A	AA	AB	AD	B	BB	H	HA	s2					
e1631 4A 15KW 2P	B	125	100	125	80	240	26	200	280	160	120	360	280	350	19	348	254	49	304	240	210	304	160	5	15	388	480	1095	140	182
e1631 4A 18.5KW 2P	B	125	100	125	80	240	26	200	280	160	120	360	280	350	19	348	254	49	304	240	254	304	160	5	15	388	480	1125	140	193
e1631 4A 22KW 2P	B	125	100	125	80	240	26	200	280	160	120	360	280	350	19	348	254	49	304	240	254	304	180	5	15	388	480	1144	140	203
e1631 4A 30KW 2P	B	125	100	125	80	246	26	200	280	160	120	360	280	400	19	379	318	82	385	317	305	370	200	30	19	400	517	1171	140	329
e1631 4B 30KW 2P	B	125	100	125	80	246	26	200	280	160	120	360	280	400	19	379	318	82	385	317	305	370	200	30	19	400	517	1171	140	327
e1631 4B 37KW 2P	B	125	100	125	80	246	26	200	280	160	120	360	280	400	19	379	318	82	385	317	305	370	200	30	19	400	517	1171	140	348
e1631 4B 45KW 2P	C	125	100	125	80	246	26	200	280	160	120	360	280	450	19	395	356	80	436	384	311	412	225	34	19	450	609	1186	140	504
e1631 4B 55KW 2P	C	125	100	125	80	276	26	200	280	160	120	360	280	550	19	444	406	100	506	402	349	467	250	43	24	550	652	1311	140	586
e1631 4C 75KW 2P	C	125	100	140	80	276	26	225	280	160	120	400	315	550	19	466	457	100	557	472	368	517	280	42	24	550	752	1401	140	839
e1631 4C 90KW 2P	C	125	100	140	80	276	26	225	280	160	120	400	315	550	19	466	457	100	557	472	419	517	280	42	24	550	752	1451	140	874
e1631 5B 45KW 2P	B	150	125	140	80	246	26	250	315	160	120	400	315	550	19	395	356	80	436	384	311	412	225	34	19	468	634	1201	140	531
e1631 5B 55KW 2P	C	150	125	140	80	276	26	250	315	160	120	400	315	550	19	444	406	100	506	402	349	467	250	43	24	550	652	1326	140	612
e1631 5B 75KW 2P	C	150	125	140	80	276	26	250	315	160	120	400	315	550	19	466	457	100	557	472	368	517	280	42	24	550	752	1401	140	855
e1631 5B 90KW 2P	C	150	125	140	80	276	26	250	315	160	120	400	315	550	19	466	457	100	557	472	419	517	280	42	24	550	752	1451	140	890

For shims and supports see accessories section.

Note:Pumps with flanges according to EN 1092-2(GB/T17241.6) as standard;available ASME B16.5 Version on request.

e1631 Series Pump set Dimensions and weight

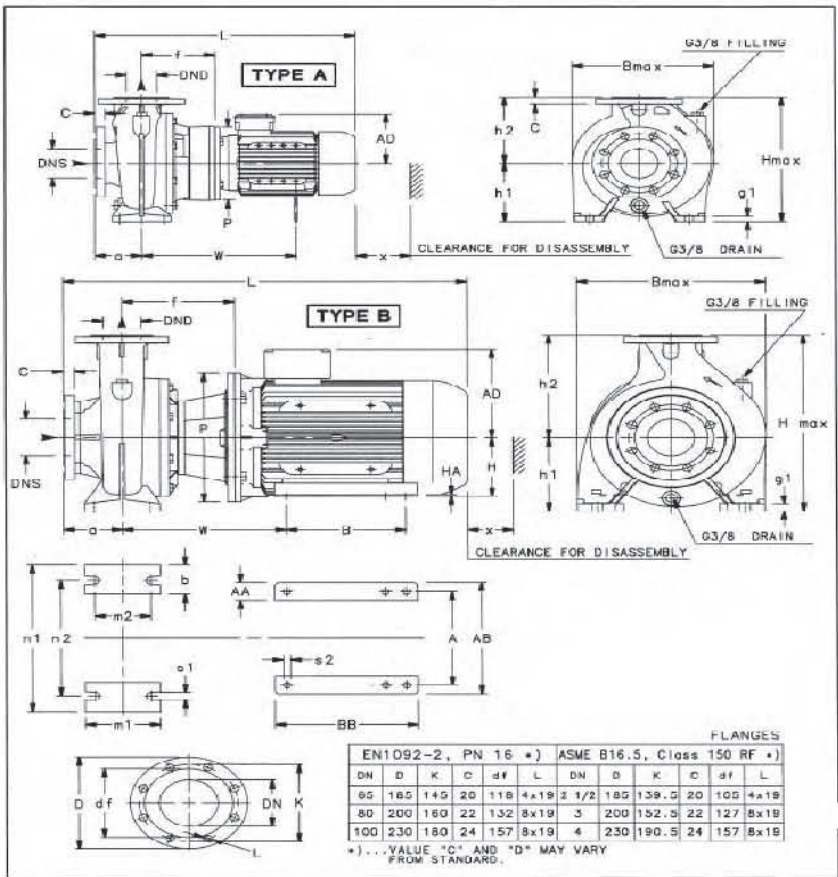
e1631 1.25,1.5,2 series pump set dimensions and weight(50Hz,4Poles)



PUMP TYPE	TYPE	Dimensions(mm)																							B max	H max	L	x	WEIGHT (kg)	
		PUMP														MOTOR														
		DN _S	DN _D	a	b	f	g1	h1	h2	m1	m2	n1	n2	P	s1	W	A	AA	AB	AD	B	BB	H	HA	s2					
e1631 1.25A 0.55KW 4P	A	50	32	80	50	155	14	132	160	100	70	240	190	200	14	290	-	-	-	129	-	-	-	-	-	248	292	540	86	32
e1631 1.25B 0.55KW 4P	A	50	32	80	50	155	14	160	180	100	70	240	190	200	14	290	-	-	-	129	-	-	-	-	-	286	340	540	86	42
e1631 1.25B 0.75KW 4P	A	50	32	80	50	155	14	160	180	100	70	240	190	200	14	-	-	-	-	128	-	-	-	-	-	286	340	540	86	43
e1631 1.25B 1.1KW 4P	A	50	32	80	50	155	14	160	180	100	70	240	190	200	14	300	-	-	-	134	-	-	-	-	-	286	340	595	86	50
e1631 1.25C 1.1KW 4P	A	50	32	100	65	155	21	180	225	125	95	320	250	200	14	245	-	-	-	134	-	-	-	-	-	334	405	615	95	48
e1631 1.25C 1.5KW 4P	A	50	32	100	65	155	21	180	225	125	95	320	250	200	14	245	-	-	-	134	-	-	-	-	-	334	405	645	95	51
e1631 1.25C 2.2KW 4P	A	50	32	100	65	165	21	180	225	125	95	320	250	250	14	285	-	-	-	168	-	-	-	-	-	334	405	700	95	61
e1631 1.5A 0.55KW 4P	A	65	40	80	50	155	14	112	140	100	70	210	160	200	14	290	-	-	-	129	-	-	-	-	-	237	252	540	96	32
e1631 1.5A 0.55KW 4P	A	65	40	80	50	155	14	132	160	100	70	240	190	200	14	290	-	-	-	129	-	-	-	-	-	250	292	540	92	34
e1631 1.5A 0.75KW 4P	A	65	40	80	50	155	14	132	160	100	70	240	190	200	14	-	-	-	-	128	-	-	-	-	-	250	292	540	92	38
e1631 1.5A 1.1KW 4P	A	65	40	80	50	155	14	132	160	100	70	240	190	200	14	300	-	-	-	134	-	-	-	-	-	250	292	595	92	44
e1631 1.5B 0.75KW 4P	A	65	40	100	50	155	14	160	180	100	70	265	212	200	14	-	-	-	-	128	-	-	-	-	-	290	340	560	90	43
e1631 1.5B 1.1KW 4P	A	65	40	100	50	155	14	160	180	100	70	265	212	200	14	300	-	-	-	134	-	-	-	-	-	290	340	615	90	49
e1631 1.5B 1.5KW 4P	A	65	40	100	50	155	14	160	180	100	70	265	212	200	14	300	-	-	-	134	-	-	-	-	-	290	340	645	90	52
e1631 1.5C 1.1KW 4P	A	65	40	100	65	155	16	180	225	125	95	320	250	200	14	300	-	-	-	134	-	-	-	-	-	338	405	615	104	58
e1631 1.5C 1.5KW 4P	A	65	40	100	65	155	16	180	225	125	95	320	250	200	14	300	-	-	-	134	-	-	-	-	-	338	405	645	104	63
e1631 1.5C 2.2KW 4P	A	65	40	100	65	165	16	180	225	125	95	320	250	250	14	350	-	-	-	168	-	-	-	-	-	338	405	700	104	71
e1631 1.5C 3KW 4P	A	65	40	100	65	165	16	180	225	125	95	320	250	250	14	350	-	-	-	168	-	-	-	-	-	338	405	700	104	75
e1631 2A 0.55KW 4P	A	65	50	100	50	157	14	132	160	100	70	240	190	200	14	292	-	-	-	129	-	-	-	-	-	255	292	562	107	35
e1631 2A 0.75KW 4P	A	65	50	100	50	157	14	132	160	100	70	240	190	200	14	-	-	-	-	128	-	-	-	-	-	255	292	562	107	39
e1631 2A 1.1KW 4P	A	65	50	100	50	157	14	132	160	100	70	240	190	200	14	302	-	-	-	134	-	-	-	-	-	255	292	617	107	45
e1631 2A 0.75KW 4P	A	65	50	100	50	155	14	160	180	100	70	265	212	200	14	-	-	-	-	128	-	-	-	-	-	289	340	560	103	46
e1631 2A 1.1KW 4P	A	65	50	100	50	155	14	160	180	100	70	265	212	200	14	300	-	-	-	134	-	-	-	-	-	289	340	615	103	52
e1631 2A 1.5KW 4P	A	65	50	100	50	155	14	160	180	100	70	265	212	200	14	300	-	-	-	134	-	-	-	-	-	289	340	645	103	55
e1631 2B 1.1KW 4P	A	65	50	100	50	155	14	160	200	100	70	265	212	200	14	247	-	-	-	134	-	-	-	-	-	305	360	615	98	52
e1631 2B 1.5KW 4P	A	65	50	100	50	155	14	160	200	100	70	265	212	200	14	247	-	-	-	134	-	-	-	-	-	305	360	645	98	55
e1631 2B 2.2KW 4P	A	65	50	100	50	165	14	160	200	100	70	265	212	250	14	287	-	-	-	168	-	-	-	-	-	305	360	700	98	65
e1631 2C 2.2KW 4P	A	65	50	100	65	165	16	180	225	125	95	320	250	250	14	285	-	-	-	168	-	-	-	-	-	358	405	700	110	72
e1631 2C 3KW 4P	A	65	50	100	65	165	16	180	225	125	95	320	250	250	14	285	-	-	-	168	-	-	-	-	-	358	405	700	110	76
e1631 2C 4KW 4P	A	65	50	100	65	165	16	180	225	125	95	320	250	250	14	410	-	-	-	168	-	-	-	-	-	358	405	705	110	95
e1631 2D 4KW 4P	A	65	50	125	65	183	14	225	280	125	95	345	280	250	15	428	-	-	-	168	-	-	-	-	-	413	505	748	140	137
e1631 2D 5.5KW 4P	A	65	50	125	65	210	14	225	280	125	95	345	280	300	15	452	-	-	-	191	-	-	-	-	-	413	505	845	140	145
e1631 2D 7.5KW 4P	A	65	50	125	65	210	14	225	280	125	95	345	280	300	15	452	-	-	-	191	-	-	-	-	-	413	505	885	140	150
e1631 2D 11KW 4P	B	65	50	125	65	240	14	225	280	125	95	345	280	350	15	348	254	49	304	240	254	304	160	5	15	413	505	1095	140	172

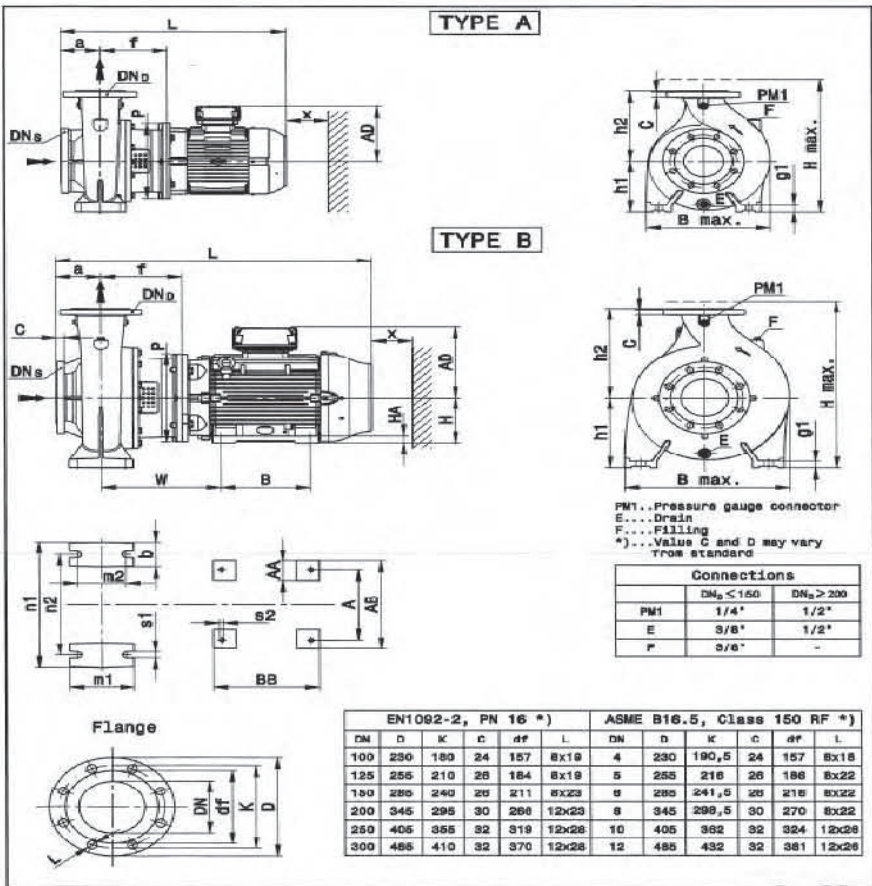
e1631 Series Pump set Dimensions and weight

e1631 2.5,3,25 series pump set dimensions and weight(50Hz,4Poles)



e1631 Series Pump set Dimensions and weight

e1631 4,5,6,8,10 series pump set dimensions and weight(50Hz,4Poles)



PUMP TYPE	TYPE	PUMP															MOTOR										Bmax	Hmax	L	x	WEIGHT (kg)
		DNS	DND	a	b	f	g1	h1	h2	m1	m2	n1	n2	P	s1	W	A	AA	AB	AD	B	BB	H	HA	s2						
e1631 2.5AS 0.55KW 4P	A	80	65	100	65	157	16	160	180	125	95	280	212	200	14	292	-	-	-	139	-	-	-	-	-	300	340	562	100	44	
e1631 2.5AS 0.75KW 4P	A	80	65	100	65	157	16	160	180	125	95	280	212	200	14	-	-	-	128	-	-	-	-	-	300	340	562	100	48		
e1631 2.5AS 1.1KW 4P	A	80	65	100	65	157	16	160	180	125	95	280	212	200	14	302	-	-	-	134	-	-	-	-	-	300	340	617	100	55	
e1631 2.5AS 1.5KW 4P	A	80	65	100	65	157	16	160	180	125	95	280	212	200	14	302	-	-	-	134	-	-	-	-	-	300	340	647	100	58	
e1631 2.5A 1.1KW 4P	A	80	65	100	65	155	16	160	200	125	95	280	212	200	14	300	-	-	-	134	-	-	-	-	-	335	360	615	108	59	
e1631 2.5A 1.5KW 4P	A	80	65	100	65	155	16	160	200	125	95	280	212	200	14	300	-	-	-	134	-	-	-	-	-	335	360	645	108	62	
e1631 2.5A 2.2KW 4P	A	80	65	100	65	165	16	160	200	125	95	280	212	250	14	350	-	-	-	168	-	-	-	-	-	335	360	700	108	72	
e1631 2.5B 1.5KW 4P	A	80	65	100	65	155	16	180	225	125	95	320	250	200	14	300	-	-	-	134	-	-	-	-	-	348	405	645	118	65	
e1631 2.5B 2.2KW 4P	A	80	65	100	65	165	16	180	225	125	95	320	250	250	14	350	-	-	-	168	-	-	-	-	-	348	405	700	118	75	
e1631 2.5B 3KW 4P	A	80	65	100	65	165	16	180	225	125	95	320	250	250	14	350	-	-	-	168	-	-	-	-	-	348	405	700	118	78	
e1631 2.5B 4KW 4P	A	80	65	100	65	165	16	180	225	125	95	320	250	250	14	410	-	-	-	168	-	-	-	-	-	348	405	705	118	97	
e1631 2.5C 3KW 4P	A	80	65	100	80	183	21	200	250	160	120	360	280	250	20	368	-	-	-	168	-	-	-	-	-	367	450	718	130	85	
e1631 2.5C 4KW 4P	A	80	65	100	80	183	21	200	250	160	120	360	280	250	20	428	-	-	-	168	-	-	-	-	-	367	450	723	130	107	
e1631 2.5C 5.5KW 4P	A	80	65	100	80	210	21	200	250	160	120	360	280	300	20	453	-	-	-	191	-	-	-	-	-	367	450	820	130	112	
e1631 2.5C 7.5KW 4P	A	80	65	100	80	210	21	200	250	160	120	360	280	300	20	453	-	-	-	191	-	-	-	-	-	367	450	860	130	116	
e1631 2.5D 5.5KW 4P	A	80	65	125	80	210	20	225	280	160	120	400	315	300	19	452	-	-	-	191	-	-	-	-	-	437	505	845	140	153	
e1631 2.5D 7.5KW 4P	A	80	65	125	80	210	20	225	280	160	120	400	315	300	19	452	-	-	-	191	-	-	-	-	-	437	505	885	140	157	
e1631 2.5D 11KW 4P	B	80	65	125	80	240	20	225	280	160	120	400	315	350	19	348	254	49	304	240	254	304	160	5	15	437	505	1095	140	179	
e1631 2.5D 15KW 4P	B	80	65	125	80	240	20	225	280	160	120	400	315	350	19	348	254	49	304	240	254	304	160	5	15	437	505	1125	140	222	
e1631 3.25A 1.5KW 4P	A	100	80	125	65	155	16	180	225	125	95	320	250	200	14	300	-	-	-	134	-	-	-	-	-	340	405	670	122	72	
e1631 3.25A 2.2KW 4P	A	100	80	125	65	165	16	180	225	125	95	320	250	250	14	350	-	-	-	168	-	-	-	-	-	340	405	725	122	82	
e1631 3.25A 3KW 4P	A	100	80	125	65	165	16	180	225	125	95	320	250	250	14	350	-	-	-	168	-	-	-	-	-	340	405	725	122	85	
e1631 3.25B 3KW 4P	A	100	80	125	65	183	16	180	250	125	95	345	280	250	14	368	-	-	-	168	-	-	-	-	-	358	430	743	151	87	
e1631 3.25B 4KW 4P	A	100	80	125	65	183	16	180	250	125	95	345	280	250	14	428	-	-	-	168	-	-	-	-	-	358	430	748	151	109	
e1631 3.25B 5.5KW 4P	A	100	80	125	65	210	16	180	250	125	95	345	280	300	14	453	-	-	-	191	-	-	-	-	-	358	430	845	151	115	
e1631 3.25C 5.5KW 4P	A	100	80	125	80	210	21	200	280	160	120	400	315	300	20	453	-	-	-	191	-	-	-	-	-	400	480	845	152	118	
e1631 3.25C 7.5KW 4P	A	100	80	125	80	210	21	200	280	160	120	400	315	300	20	453	-	-	-	191	-	-	-	-	-	400	480	885	152	122	
e1631 3.25C 11KW 4P	B	100	80	125	80	240	21	200	280	160	120	400	315	350	20	348	254	49	304	240	254	304	160	5	15	400	480	1095	152	185	
e1631 3.25D 11KW 4P	B	100	80	125	80	240	26	250	315	160	120	400	315	350	19	348	254	49	304	240	254	304	160	5	15	477	565	1095	140	192	
e1631 3.25D 15KW 4P	B	100	80	125	80	240	26	250	315	160	120	400	315	350	19	348	254	49	304	240	254	304	160	5	15	477	565	1125	140	235	
e1631 3.25D 18.5KW 4P	B	100	80	125	80	240	26	250	315	160	120	400	315	350	19	361	279	78	350	279	241	294	180	28	15	477	565	1144	140	285	
e1631 3.25D 22KW 4P	B	100	80	125	80	240	26	250	315	160	120	400	315	350	19	361	279	78	350	279	279	332	180	28	15	477	565	1155	140	303	
e1631 3.25E 18.5KW 4P	B	100	80	125	80	254	26	280	355	160	120	435	355	350	19	375	279	78	350	279	241	294	180	28	15	539	635	1158	140	325	
e1631 3.25E 22KW 4P	B	100	80	125	80	254	26	280	355	160	120	435	355	350	19	375	279	78	350	279	279	332	180	28	15	539	635	1169	140	343	
e1631 3.25E 30KW 4P	B	100	80	125	80	254	26	280	355	160	120	435	355	400	19	387	318	82	385	317	305	370	200	30	19	539	635	1179	140	389	
e1631 3.25E 37KW 4P	B	100	80	125	80	284	26	280	355	160	120	435	355	450	19	433	356	82	436	380	286	409	225	34	19	539	660	1229	140	547	

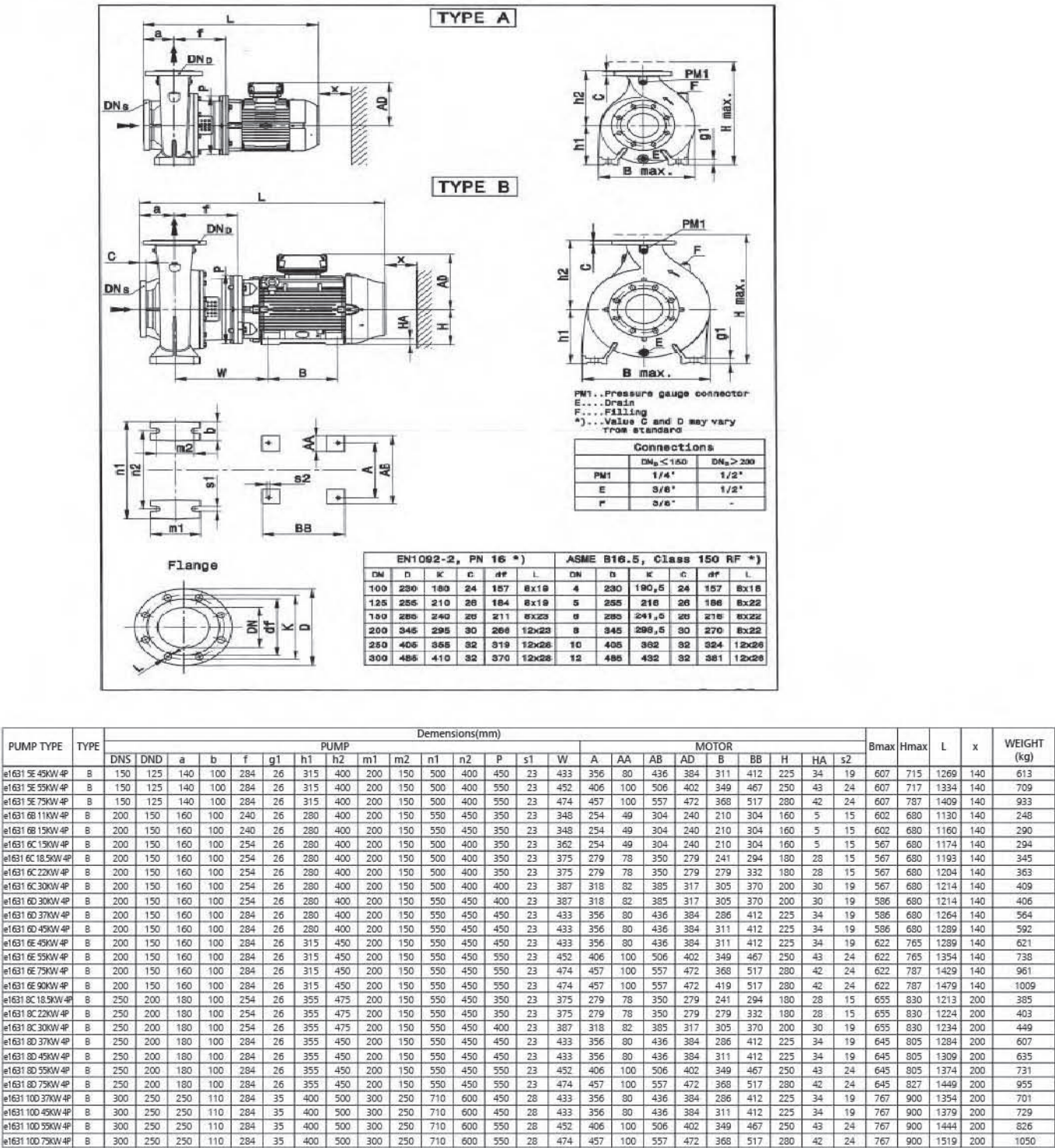
For shims and supports see accessories section.

Note:Pumps with flanges according to EN 1092-2(GB/T17241.6) as standard;available ASME B16.5 Version on request.

PUMP TYPE	TYPE	Demensions(mm)																			Bmax	Hmax	L	x	WEIGHT (kg)					
		DNS	DND	a	b	f	g1	h1	h2	m1	m2	n1	n2	P	s1	W	A	AA	AB	AD						B	BB	H	HA	s2
e1631 4A 2.2KW 4P	A	125	100	125	80	183	26	200	280	160	120	360	280	250	19	-	-	-	-	168	-	-	-	-	-	388	480	743	140	104
e1631 4A 3KW 4P	A	125	100	125	80	183	26	200	280	160	120	360	280	250	19	-	-	-	-	168	-	-	-	-	-	388	480	743	140	110
e1631 4A 4KW 4P	A	125	100	125	80	183	26	200	280	160	120	360	280	250	19	-	-	-	-	168	-	-	-	-	-	388	480	748	140	132
e1631 4B 4KW 4P	A	125	100	125	80	183	26	200	280	160	120	360	280	250	19	-	-	-	-	168	-	-	-	-	-	390	480	748	140	130
e1631 4B 5.5KW 4P	A	125	100	125	80	210	26	200	280	160	120	360	280	300	19	-	-	-	-	191	-	-	-	-	-	390	480	845	140	139
e1631 4B 7.5KW 4P	A	125	100	125	80	210	26	200	280	160	120	360	280	300	19	-	-	-	-	191	-	-	-	-	-	390	480	885	140	144
e1631 4C 7.5KW 4P	A	125	100	140	80	210	26	225	280	160	120	400	315	300	19	-	-	-	-	191	-	-	-	-	-	431	505	900	140	155
e1631 4C 11KW 4P	B	125	100	140	80	240	26	225	280	160	120	400	315	350	19	348	254	49	304	240	210	304	160	5	15	431	505	1110	140	177
e1631 4D 11KW 4P	B	125	100	140	80	240	26	250	315	160	120	400	315	350	19	348	254	49	304	240	210	304	160	5	15	481	565	1110	140	198
e1631 4D 15KW 4P	B	125	100	140	80	240	26	250	315	160	120	400	315	350	19	348	254	49	304	240	210	304	160	5	15	481	565	1140	140	240
e1631 4D 18.5KW 4P	B	125	100	140	80	240	26	250	315	160	120	400	315	350	19	361	279	78	350	279	241	294	180	28	15	481	565	1159	140	291
e1631 4D 22KW 4P	B	125	100	140	80	240	26	250	315	160	120	400	315	350	19	361	279	78	350	279	279	332	180	28	15	481	565	1170	140	309
e1631 4D 30KW 4P	B	125	100	140	80	246	26	250	315	160	120	400	315	400	19	379	318	82	385	317	305	370	200	30	19	481	565	1186	140	358
e1631 4E 30KW 4P	B	125	100	140	100	254	26	280	355	200	150	500	400	400	23	387	318	82	385	317	305	370	200	30	19	569	635	1194	140	409
e1631 4E 37KW 4P	B	125	100	140	100	284	26	280	355	200	150	500	400	450	23	433	356	82	436	380	286	409	225	30	19	569	660	1244	140	567
e1631 4E 45KW 4P	B	125	100	140	100	284	26	280	355	200	150	500	400	450	23	433	356	82	436	380	311	409	225	30	19	569	660	1269	140	595
e1631 5B 5.5KW 4P	A	150	125	140	80	210	26	250	315	160	120	400	315	300	19	-	-	-	-	191	-	-	-	-	-	468	565	860	140	166
e1631 5B 7.5KW 4P	A	150	125	140	80	210	26	250	315	160	120	400	315	300	19	-	-	-	-	191	-	-	-	-	-	468	565	900	140	170
e1631 5B 11KW 4P	B	150	125	140	80	240	26	250	315	160	120	400	315	350	19	348	254	49	304	240	210	304	160	5	15	468	565	1110	140	192
e1631 5C 11KW 4P	B	150	125	140	80	240	26	250	355	160	120	400	315	350	19	348	254	49	304	240	210	304	160	5	15	470	605	1110	140	195
e1631 5C 15KW 4P	B	150	125	140	80	240	26	250	355	160	120	400	315	350	19	348	254	49	304	240	210	304	160	5	15	470	605	1140	140	237
e1631 5D 18.5KW 4P	B	150	125	140	100	254	26	280	355	200	150	500	400	350	23	375	279	78	350	279	241	294	180	28	15	518	635	1173	140	315
e1631 5D 22KW 4P	B	150	125	140	100	254	26	280	355	200	150	500	400	350	23	375	279	78	350	279	279	332	180	28	15	518	635	1184	140	333
e1631 5D 30KW 4P	B	150	125	140	100	254	26	280	355	200	150	500	400	400	23	387	318	82	385	317	305	370	200	30	19	518	635	1194	140	379
e1631 5D 37KW 4P	B	150	125	140	100	284	26	280	355	200	150	500	400	450	23	433	356	80	436	384	286	412	225	34	19	518	664	1244	140	537
e1631 5E 37KW 4P	B	150	125	140	100	284	26	315	400	200	150	500	400	450	23	433	356	80	436	384	286	412	225	34	19	607	715	1244	140	585

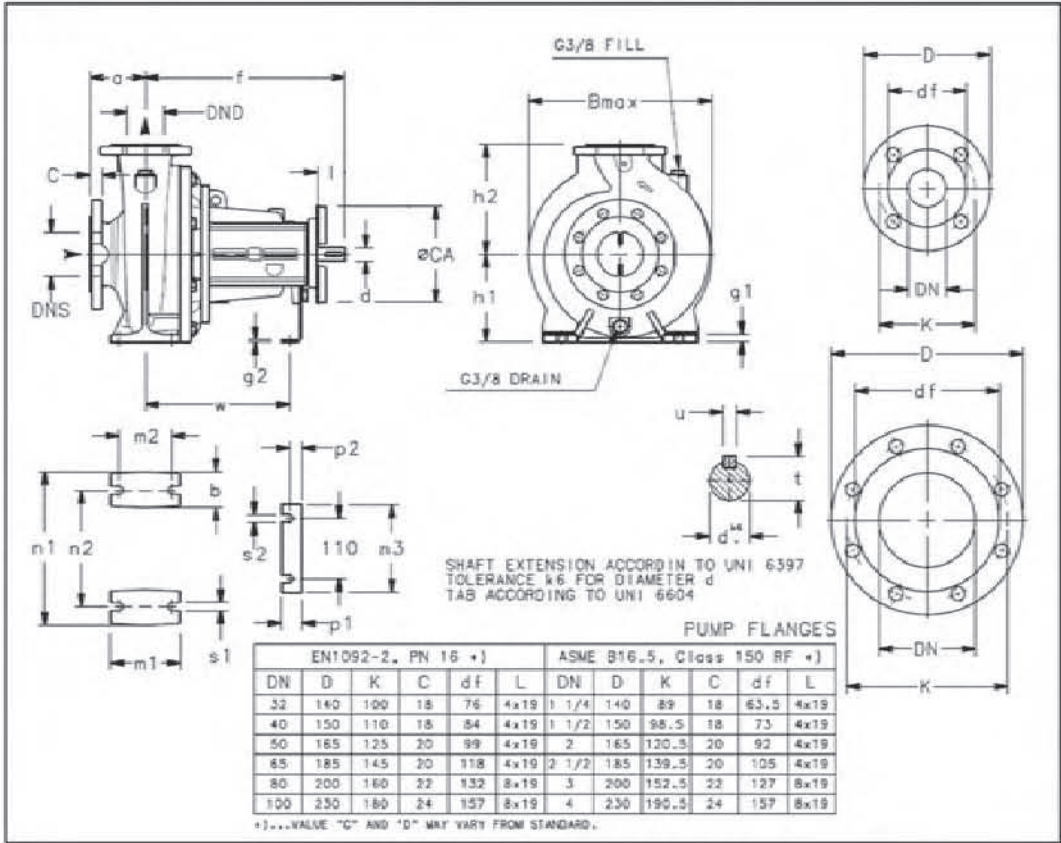
e1631 Series Pump set Dimensions and weight

e1631 4,5,6,8,10 series pump set dimensions and weight(50Hz,4Poles)



e1610 Series Bare Shaft Pump Dimensions and weight

e1610 1.25,1.5,2,2.5,3.25 series Bare Shaft Pump Dimensions and weight



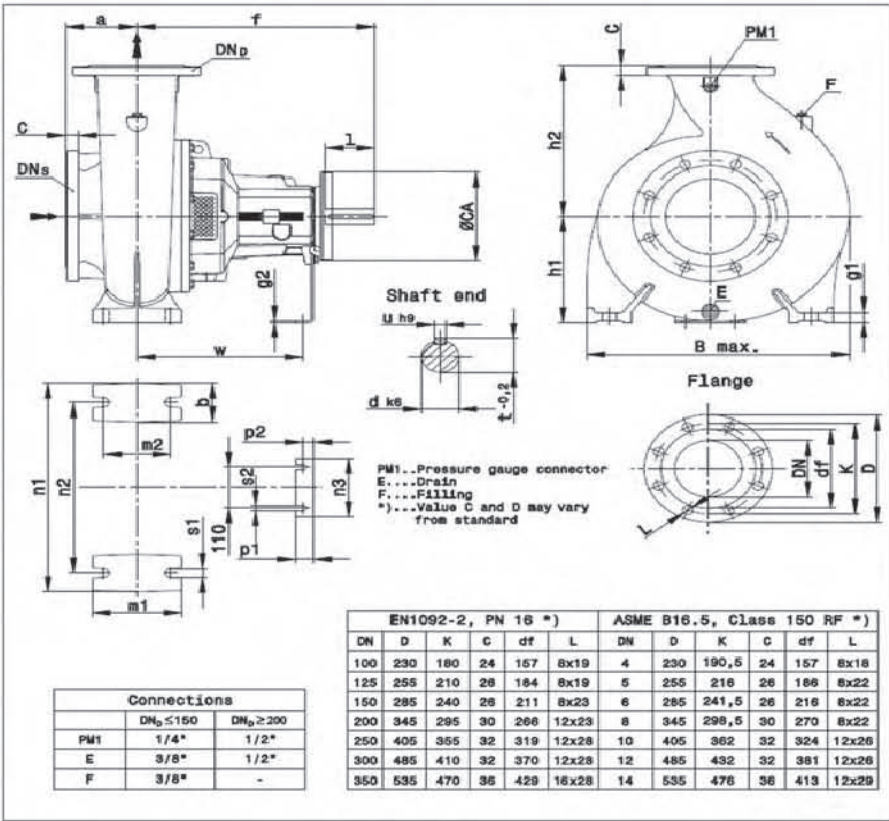
PUMP TYPE	TYPE	Dimensions(mm)																								Bmax	Hmax	L	x	WEIGHT (kg)
		PUMP														MOTOR														
		DN5	DN2	a	b	f	g1	h1	h2	m1	m2	n1	n2	P	s1	W	A	AA	AB	AD	B	BB	H	HA	s2					
e1631 5E 49kW 4P	B	150	125	140	100	284	26	315	400	200	150	500	400	450	23	433	356	80	436	384	311	412	225	34	19	607	715	1269	140	613
e1631 5E 59kW 4P	B	150	125	140	100	284	26	315	400	200	150	500	400	550	23	452	406	100	506	402	349	467	250	43	24	607	717	1334	140	709
e1631 5E 79kW 4P	B	150	125	140	100	284	26	315	400	200	150	500	400	550	23	474	457	100	557	472	368	517	280	42	24	607	787	1409	140	933
e1631 6E 11kW 4P	B	200	150	160	100	240	26	280	400	200	150	550	450	350	23	348	254	49	304	240	210	304	160	5	15	602	680	1130	140	248
e1631 6E 15kW 4P	B	200	150	160	100	240	26	280	400	200	150	550	450	350	23	348	254	49	304	240	210	304	160	5	15	602	680	1160	140	290
e1631 6E 19kW 4P	B	200	150	160	100	254	26	280	400	200	150	500	400	350	23	362	254	49	304	240	210	304	160	5	15	567	680	1174	140	294
e1631 6E 18.5kW 4P	B	200	150	160	100	254	26	280	400	200	150	500	400	350	23	375	279	78	350	279	241	294	180	28	15	567	680	1193	140	345
e1631 6E 22kW 4P	B	200	150	160	100	254	26	280	400	200	150	500	400	350	23	375	279	78	350	279	279	332	180	28	15	567	680	1204	140	363
e1631 6E 30kW 4P	B	200	150	160	100	254	26	280	400	200	150	500	400	400	23	387	318	82	385	317	305	370	200	30	19	567	680	1214	140	409
e1631 6E 30kW 4P	B	200	150	160	100	254	26	280	400	200	150	550	450	400	23	387	318	82	385	317	305	370	200	30	19	586	680	1214	140	406
e1631 6E 37kW 4P	B	200	150	160	100	284	26	280	400	200	150	550	450	450	23	433	356	80	436	384	286	412	225	34	19	586	680	1264	140	564
e1631 6E 45kW 4P	B	200	150	160	100	284	26	280	400	200	150	550	450	450	23	433	356	80	436	384	311	412	225	34	19	586	680	1289	140	592
e1631 6E 45kW 4P	B	200	150	160	100	284	26	315	450	200	150	550	450	450	23	433	356	80	436	384	311	412	225	34	19	622	765	1289	140	621
e1631 6E 59kW 4P	B	200	150	160	100	284	26	315	450	200	150	550	450	550	23	452	406	100	506	402	349	467	250	43	24	622	765	1354	140	738
e1631 6E 79kW 4P	B	200	150	160	100	284	26	315	450	200	150	550	450	550	23	474	457	100	557	472	368	517	280	42	24	622	787	1429	140	961
e1631 6E 90kW 4P	B	200	150	160	100	284	26	315	450	200	150	550	450	550	23	474	457	100	557	472	419	517	280	42	24	622	787	1479	140	1009
e1631 8E 18.5kW 4P	B	250	200	180	100	254	26	355	475	200	150	550	450	350	23	375	279	78	350	279	241	294	180	28	15	655	830	1213	200	385
e1631 8E 22kW 4P	B	250	200	180	100	254	26	355	475	200	150	550	450	350	23	375	279	78	350	279	279	332	180	28	15	655	830	1224	200	403
e1631 8E 30kW 4P	B	250	200	180	100	254	26	355	475	200	150	550	450	400	23	387	318	82	385	317	305	370	200	30	19	655	830	1234	200	449
e1631 8E 37kW 4P	B	250	200	180	100	284	26	355	450	200	150	550	450	450	23	433	356	80	436	384	286	412	225	34	19	645	805	1284	200	607
e1631 8E 45kW 4P	B	250	200	180	100	284	26	355	450	200	150	550	450	450	23	433	356	80	436	384	311	412	225	34	19	645	805	1309	200	635
e1631 8E 55kW 4P	B	250	200	180	100	284	26	355	450	200	150	550	450	550	23	452	406	100	506	402	349	467	250	43	24	645	805	1374	200	731
e1631 8E 79kW 4P	B	250	200	180	100	284	26	355	450	200	150	550	450	550	23	474	457	100	557	472	368	517	280	42	24	645	827	1449	200	955
e1631 10E 37kW 4P	B	300	250	250	110	284	35	400	500	300	250	710	600	450	28	433	356	80	436	384	286	412	225	34	19	767	900	1354	200	701
e1631 10E 45kW 4P	B	300	250	250	110	284	35	400	500	300	250	710	600	450	28	433	356	80	436	384	311	412	225	34	19	767	900	1379	200	729
e1631 10E 55kW 4P	B	300	250	250	110	284	35	400	500	300	250	710	600	550	28	452	406	100	506	402	349	467	250	43	24	767	900	1444	200	826
e1631 10E 79kW 4P	B	300	250	250	110	284	35	400	500	300	250	710	600	550	28	474	457	100	557	472	368	517	280	42	24	767	900	1519	200	1050

For shims and supports see accessories section.
Note:Pumps with flanges according to EN 1092-2(GB/T17241.6) as standard;available ASME B16.5 Version on request.

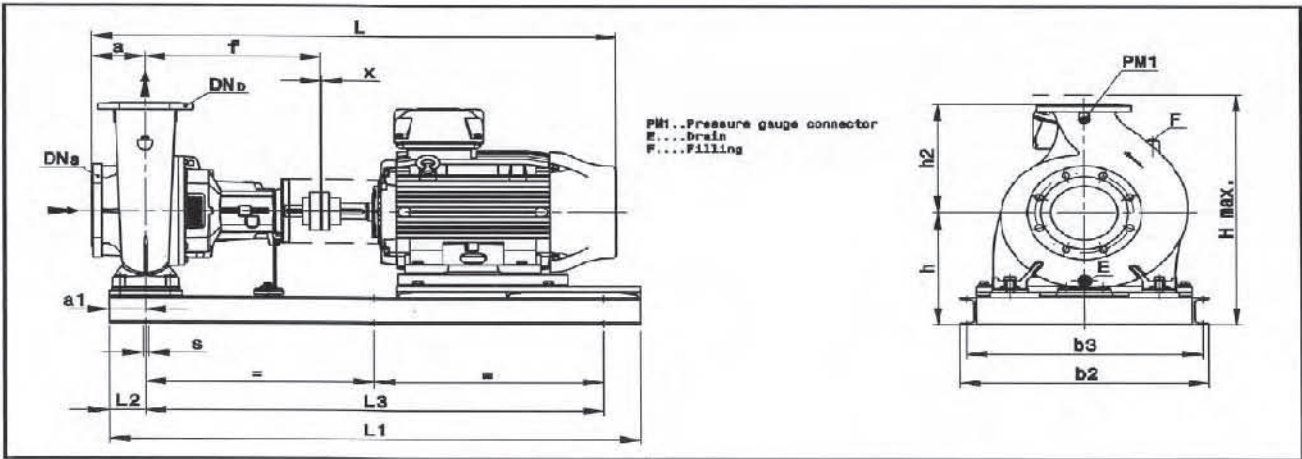
PUMP TYPE	DIMENSIONS (mm)																				SHAFT					B	WEIGHT
	PUMP										SHAFT																
e1610 (BARE SHAFT)	DN _S	DN _D	a	b	f	g1	g2	h1	h2	m1	m2	n1	n2	n3	p1	p2	s1	s2	W	ØCA	d	l	t	u	max	kg	
e1610 1.25AS	50	32	80	50	360	12	4	112	140	100	70	190	140	160	37	22	14	14	260	160	24	50	27	8	239	30	
e1610 1.25A	50	32	80	50	360	12	4	132	160	100	70	240	190	160	37	22	14	14	260	160	24	50	27	8	250	31	
e1610 1.25B	50	32	80	50	360	12	4	160	180	100	70	240	190	160	37	22	14	14	260	160	24	50	27	8	286	38	
e1610 1.25C	50	32	100	65	360	16	4	180	225	125	95	320	250	160	37	22	14	14	260	175	24	50	27	8	343	59	
e1610 1.5AS	65	40	80	50	360	12	4	112	140	100	70	210	160	160	37	22	14	14	260	160	24	50	27	8	240	31	
e1610 1.5A	65	40	80	50	360	12	4	132	160	100	70	240	190	160	37	22	14	14	260	160	24	50	27	8	253	32	
e1610 1.5B	65	40	100	50	360	12	4	160	180	100	70	265	212	160	37	22	14	14	260	160	24	50	27	8	294	40	
e1610 1.5C	65	40	100	65	360	16	4	180	225	125	95	320	250	160	37	22	14	14	260	175	24	50	27	8	343	60	
e1610 2AS	65	50	100	50	360	12	4	132	160	100	70	240	190	160	37	22	14	14	260	160	24	50	27	8	258	34	
e1610 2A	65	50	100	50	360	12	4	160	180	100	70	265	212	160	37	22	14	14	260	160	24	50	27	8	290	41	
e1610 2B	65	50	100	50	360	12	4	160	200	100	70	265	212	160	37	22	14	14	260	160	24	50	27	8	303	42	
e1610 2C	65	50	100	65	360	16	4	180	225	125	95	320	250	160	37	22	14	14	260	175	24	50	27	8	361	61	
e1610 2D	65	50	125	65	470	14	5	225	280	125	95	345	280	156	41	24	15	14	340	190	32	80	35	10	414	94	
e1610 2.5AS	80	65	100	65	360	16	4	160	180	125	95	280	212	160	37	22	14	14	260	160	24	50	27	8	305	45	
e1610 2.5A	80	65	100	65	360	16	4	160	200	125	95	280	212	160	37	22	14	14	260	175	24	50	27	8	338	60	
e1610 2.5B	80	65	100	65	360	16	4	180	225	125	95	320	250	160	37	22	14	14	260	175	24	50	27	8	350	63	
e1610 2.5C	80	65	100	80	470	21	4	200	250	160	120	360	280	160	37	22	20	14	340	190	32	80	35	10	375	81	
e1610 2.5D	80	65	125	80	470	20	5	225	280	160	120	400	315	156	41	24	19	14	340	190	32	80	35	10	437	102	
e1610 3.25A	100	80	125	65	360	16	4	180	225	125	95	320	250	160	37	22	14	14	260	160	24	50	27	8	343	66	
e1610 3.25B	100	80	125	65	470	16	4	180	250	125	95	345	280	160	37	22	14	14	340	190	32	80	35	10	365	83	
e1610 3.25C	100	80	125	80	470	21	4	200	280	160	120	400	315	160	37	22	20	14	340	190	32	80	35	10	405	86	
e1610 3.25D	100	80	125	80	470	26	5	250	315	160	120	400	315	156	41	24	19	14	340	190	32	80	35	10	478	118	
e1610 3.25DT	100	80	125	80	530	26	5	250	315	160	120	400	315	156	41	24	19	14	370	230	42	110	45	12	478	140	
e1610 3.25E	100	80	125	80	530	26	5	280	355	160	120	435	355	156	41	24	19	14	370	230	42	110	45	12	540	154	

e1610 Series Bare Shaft Pump Dimensions and weight

e1610 4,5,6,8,10,12 series Bare Shaft Pump Dimensions and weight

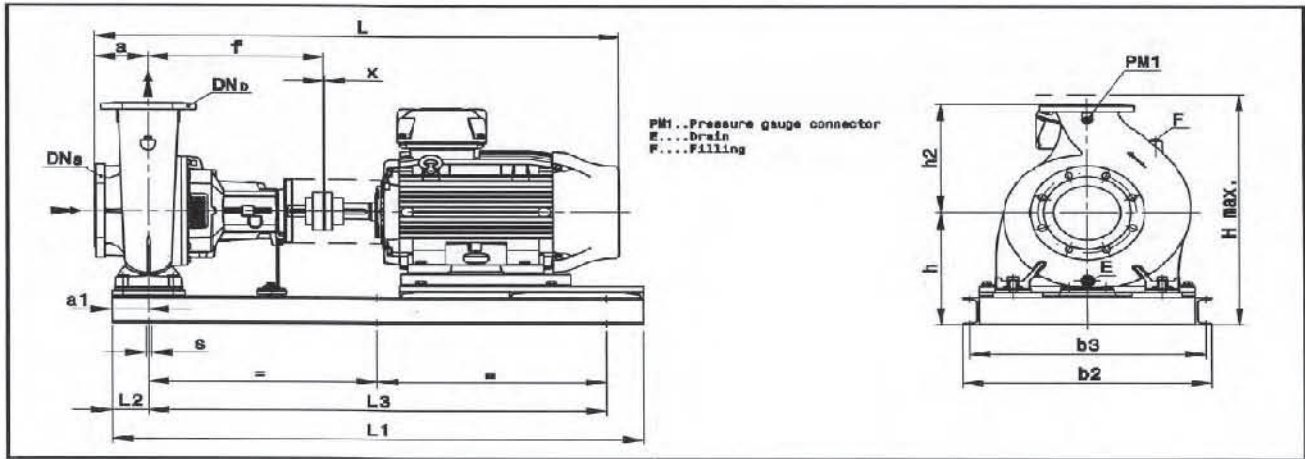


e1610 Series Pump set Dimensions and weight



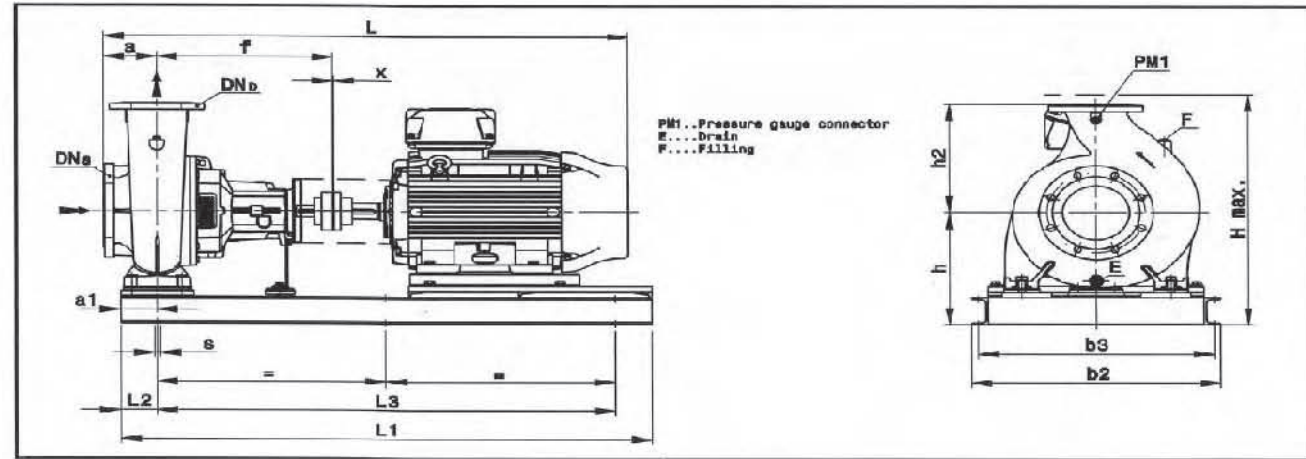
PUMPTYPE	DIMENSIONS (mm)															s	weight	coupling	connections		
	DN _S	DN _D	a	a1	b2	b3	f	h	h2	L	L1	L2	L3	H max	x	FOR SCREWS	kg	type	PM1	E	F
e1610 1.25AS 1.1KW 2P	50	32	80	60	310	270	360	212	140	741	680	130	420	362	16	4xΦ19(M16)	65	CJ19/24	/	3/8	3/8
e1610 1.25AS 1.5KW 2P	50	32	80	60	310	270	360	212	140	796	700	150	400	362	16	4xΦ19(M16)	75	CJ19/24	/	3/8	3/8
e1610 1.25AS 2.2KW 2P	50	32	80	60	310	270	360	212	140	826	710	150	410	362	16	4xΦ19(M16)	77	CJ19/24	/	3/8	3/8
e1610 1.25AS 3KW 2P	50	32	80	60	320	280	360	212	140	873	760	150	460	362	18	4xΦ19(M16)	84	CJ24/32	/	3/8	3/8
e1610 1.25A 2.2KW 2P	50	32	80	60	360	320	360	232	160	826	710	150	410	402	16	4xΦ19(M16)	78	CJ19/24	/	3/8	3/8
e1610 1.25A 3KW 2P	50	32	80	60	360	320	360	232	160	873	760	150	460	402	18	4xΦ19(M16)	85	CJ24/32	/	3/8	3/8
e1610 1.25A 4KW 2P	50	32	80	60	360	320	360	232	160	878	770	150	470	402	18	4xΦ19(M16)	90	CJ24/32	/	3/8	3/8
e1610 1.25A 5.5KW 2P	50	32	80	60	380	340	360	232	160	950	810	170	470	402	20	4xΦ19(M16)	119	CJ28/38	/	3/8	3/8
e1610 1.25B 3KW 2P	50	32	80	60	360	320	360	260	180	873	760	150	460	450	18	4xΦ19(M16)	92	CJ24/32	/	3/8	3/8
e1610 1.25B 4KW 2P	50	32	80	60	360	320	360	260	180	878	770	150	470	450	18	4xΦ19(M16)	97	CJ24/32	/	3/8	3/8
e1610 1.25B 5.5KW 2P	50	32	80	60	380	340	360	260	180	950	810	170	470	450	20	4xΦ19(M16)	126	CJ28/38	/	3/8	3/8
e1610 1.25B 7.5KW 2P	50	32	80	60	380	340	360	260	180	950	810	170	470	450	20	4xΦ19(M16)	130	CJ28/38	/	3/8	3/8
e1610 1.25C 7.5KW 2P	50	32	100	73	440	400	360	280	225	963	820	190	440	515	20	4xΦ19(M16)	157	CJ28/38	/	3/8	3/8
e1610 1.25C 11KW 2P	50	32	100	73	440	400	360	280	225	1187	930	205	520	515	24	4xΦ19(M16)	187	CJ38/45	/	3/8	3/8
e1610 1.25C 15KW 2P	50	32	100	73	440	400	360	280	225	1187	930	205	520	515	24	4xΦ19(M16)	204	CJ38/45	/	3/8	3/8
e1610 1.5AS 1.5KW 2P	65	40	80	60	330	290	360	212	140	796	700	150	400	362	16	4xΦ19(M16)	76	CJ19/24	/	3/8	3/8
e1610 1.5AS 2.2KW 2P	65	40	80	60	330	290	360	212	140	826	710	150	410	362	16	4xΦ19(M16)	78	CJ19/24	/	3/8	3/8
e1610 1.5AS 3KW 2P	65	40	80	60	330	290	360	212	140	873	760	150	460	362	18	4xΦ19(M16)	85	CJ24/32	/	3/8	3/8
e1610 1.5AS 4KW 2P	65	40	80	60	340	300	360	212	140	878	770	150	470	362	18	4xΦ19(M16)	90	CJ24/32	/	3/8	3/8
e1610 1.5A 3KW 2P	65	40	80	60	360	320	360	232	160	873	760	150	460	402	18	4xΦ19(M16)	86	CJ24/32	/	3/8	3/8
e1610 1.5A 4KW 2P	65	40	80	60	360	320	360	232	160	878	770	150	470	402	18	4xΦ19(M16)	91	CJ24/32	/	3/8	3/8
e1610 1.5A 5.5KW 2P	65	40	80	60	380	340	360	232	160	950	810	170	470	402	20	4xΦ19(M16)	120	CJ28/38	/	3/8	3/8
e1610 1.5A 7.5KW 2P	65	40	80	60	380	340	360	232	160	950	810	170	470	402	20	4xΦ19(M16)	124	CJ28/38	/	3/8	3/8
e1610 1.5B 5.5KW 2P	65	40	100	60	390	350	360	260	180	950	810	170	470	450	20	4xΦ19(M16)	128	CJ28/38	/	3/8	3/8
e1610 1.5B 7.5KW 2P	65	40	100	60	390	350	360	260	180	950	810	170	470	450	20	4xΦ19(M16)	132	CJ28/38	/	3/8	3/8
e1610 1.5B 11KW 2P	65	40	100	60	430	390	360	260	180	1174	910	190	530	450	24	4xΦ19(M16)	161	CJ38/45	/	3/8	3/8
e1610 1.5C 11KW 2P	65	40	100	73	440	400	360	280	225	1187	930	205	520	515	24	4xΦ19(M16)	188	CJ38/45	/	3/8	3/8
e1610 1.5C 15KW 2P	65	40	100	73	440	400	360	280	225	1187	930	205	520	515	24	4xΦ19(M16)	205	CJ38/45	/	3/8	3/8
e1610 1.5C 18.5KW 2P	65	40	100	73	440	400	360	280	225	1217	970	205	560	515	24	4xΦ19(M16)	218	CJ38/45	/	3/8	3/8
e1610 1.5C 22KW 2P	65	40	100	73	470	430	360	280	225	1238	980	205	570	515	26	4xΦ19(M16)	285	CJ42/55	/	3/8	3/8
e1610 2AS 3KW 2P	65	50	100	60	360	320	360	232	160	873	760	150	460	402	18	4xΦ19(M16)	88	CJ24/32	/	3/8	3/8
e1610 2AS 4KW 2P	65	50	100	60	360	320	360	232	160	878	770	150	470	402	18	4xΦ19(M16)	93	CJ24/32	/	3/8	3/8
e1610 2AS 5.5KW 2P	65	50	100	60	380	340	360	232	160	950	810	170	470	402	20	4xΦ19(M16)	122	CJ28/38	/	3/8	3/8
e1610 2AS 7.5KW 2P	65	50	100	60	380	340	360	232	160	950	810	170	470	402	20	4xΦ19(M16)	126	CJ28/38	/	3/8	3/8
e1610 2A 5.5KW 2P	65	50	100	60	390	350	360	260	180	950	810	170	470	450	20	4xΦ19(M16)	129	CJ28/38	/	3/8	3/8
e1610 2A 7.5KW 2P	65	50	100	60	390	350	360	260	180	950	810	170	470	450	20	4xΦ19(M16)	133	CJ28/38	/	3/8	3/8
e1610 2A 11KW 2P	65	50	100	60	430	390	360	260	180	1174	910	190	530	450	24	4xΦ19(M16)	162	CJ38/45	/	3/8	3/8
e1610 2B 11KW 2P	65	50	100	60	430	390	360	260	200	1174	910	190	530	470	24	4xΦ19(M16)	163	CJ38/45	/	3/8	3/8
e1610 2B 15KW 2P	65	50	100	60	430	390	360	260	200	1174	910	190	530	470	24	4xΦ19(M16)	180	CJ38/45	/	3/8	3/8
e1610 2B 18.5KW 2P	65	50	100	60	430	390	360	260	200	1204	960	190	580	470	24	4xΦ19(M16)	193	CJ38/45	/	3/8	3/8
e1610 2C 15KW 2P	65	50	100	73	440	400	360	280	225	1187	930	205	520	515	24	4xΦ19(M16)	206	CJ38/45	/	3/8	3/8
e1610 2C 18.5KW 2P	65	50	100	73	440	400	360	280	225	1217	970	205	560	515	24	4xΦ19(M16)	219	CJ38/45	/	3/8	3/8
e1610 2C 22KW 2P	65	50	100	73	470	430	360	280	225	1238	980	205	570	515	26	4xΦ19(M16)	286	CJ42/55	/	3/8	3/8
e1610 2C 30KW 2P	65	50	100	73	520	480	360	310	225	1259	1050	230	590	545	26	4xΦ19(M16)	368	CJ42/55	/	3/8	3/8
e1610 2D 37KW 2P	65	50	125	73	520	480	470	355	280	1369	1160	110	940	645	26	6xΦ19(M16)	462	CJ42/55	1/4	3/8	3/8
e1610 2D 45KW 2P	65	50	125	73	560	520	470	355	280	1384	1200	110	980	645	26	6xΦ19(M16)	607	CJ42/55	1/4	3/8	3/8
e1610 2D 55KW 2P	65	50	125	73	650	610	470	405	280	1481	1290	110	1070	695	28	6xΦ19(M16)	733	CJ48/60	1/4	3/8	3/8
e1610 2D 75KW 2P	65	50	125	73	710	670	470	405	280	1558	1350	110	1130	695	30	6xΦ19(M16)	960	CJ55/70	1/4	3/8	3/8
e1610 2.5AS 4KW 2P	80	65	100	73	400	360	360	260	180	891	780	150	480	450	18	4xΦ19(M16)	104	CJ24/32	/	3/8	3/8
e1610 2.5AS 5.5KW 2P	80	65	100	73	400	360	360	260	180	963	820	170	480	450	20	4xΦ19(M16)	133	CJ28/38	/	3/8	3/8
e1610 2.5AS 7.5KW 2P	80	65	100	73	400	360	360	260	180	963	820	170	480	450	20	4xΦ19(M16)	137	CJ28/38	/	3/8	3/8
e1610 2.5AS 11KW 2P	80	65	100	73	430	390	360	260	180	1187	930	190	550	450	24	4xΦ19(M16)	167	CJ38/45	/	3/8	3/8
e1610 2.5A 7.5KW 2P	80	65	100	73	400	360	360	260	200	963	820	170	480	470	20	4xΦ19(M16)	158	CJ28/38	/	3/8	3/8
e1610 2.5A 11KW 2P	80	65	100	73	430	390	360	260	200	1187	930	190	550	470	24	4xΦ19(M16)	188	CJ38/45	/	3/8	3/8

e1610 Series Pump set Dimensions and weight



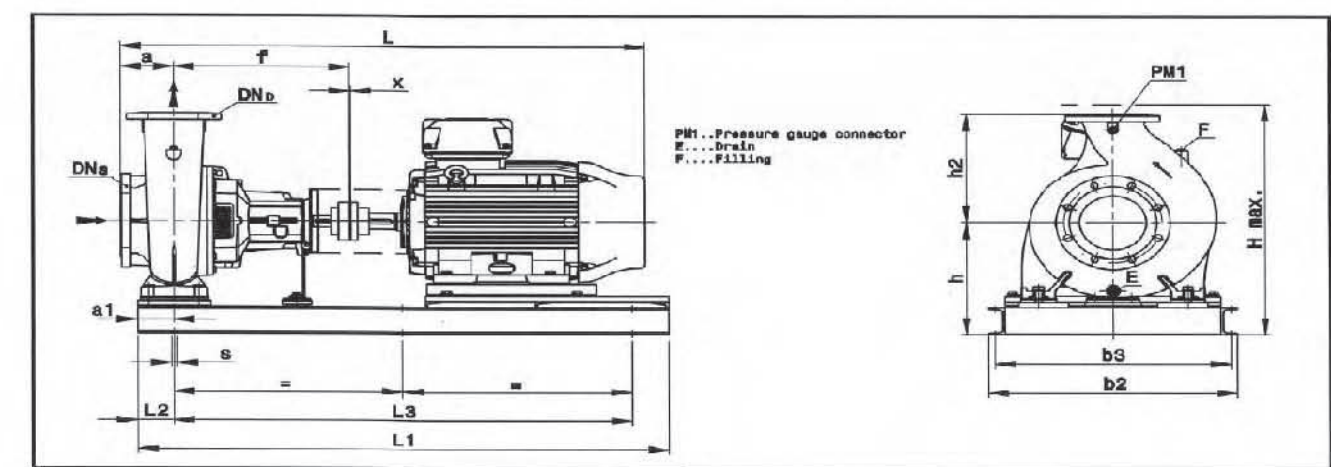
PUMPTYPE	DIMENSIONS (mm)															s	weight	coupling	connections		
	DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L2	L3	H max	x	FOR SCREWS	kg	type	PM1	E	F
e1610 2.5A 15KW 2P	80	65	100	73	430	390	360	260	200	1187	930	190	550	470	24	4xΦ 19(M16)	205	CJ38/45	/	3/8	3/8
e1610 2.5A 18.5KW 2P	80	65	100	73	430	390	360	260	200	1217	970	205	560	470	24	4xΦ 19(M16)	218	CJ38/45	/	3/8	3/8
e1610 2.5B 11KW 2P	80	65	100	73	440	400	360	280	225	1187	930	205	520	515	24	4xΦ 19(M16)	191	CJ38/45	/	3/8	3/8
e1610 2.5B 15KW 2P	80	65	100	73	440	400	360	280	225	1187	930	205	520	515	24	4xΦ 19(M16)	208	CJ38/45	/	3/8	3/8
e1610 2.5B 18.5KW 2P	80	65	100	73	440	400	360	280	225	1217	970	205	560	515	24	4xΦ 19(M16)	221	CJ38/45	/	3/8	3/8
e1610 2.5B 22KW 2P	80	65	100	73	470	430	360	280	225	1238	980	205	570	515	26	4xΦ 19(M16)	288	CJ42/55	/	3/8	3/8
e1610 2.5B 30KW 2P	80	65	100	73	520	480	360	310	225	1259	1050	230	590	545	26	4xΦ 19(M16)	370	CJ42/55	/	3/8	3/8
e1610 2.5C 22KW 2P	80	65	100	90	480	440	470	310	250	1365	1110	205	700	570	26	4xΦ 19(M16)	306	CJ42/55	/	3/8	3/8
e1610 2.5C 30KW 2P	80	65	100	90	510	470	470	310	250	1386	1180	230	720	570	26	4xΦ 19(M16)	388	CJ42/55	/	3/8	3/8
e1610 2.5C 37KW 2P	80	65	100	90	510	470	470	310	250	1386	1180	230	720	570	26	4xΦ 19(M16)	409	CJ42/55	/	3/8	3/8
e1610 2.5C 45KW 2P	80	65	100	90	580	540	470	365	250	1401	1210	230	750	625	26	4xΦ 19(M16)	560	CJ42/55	/	3/8	3/8
e1610 2.5C 55KW 2P	80	65	100	90	650	610	470	390	250	1498	1310	270	770	650	28	4xΦ 19(M16)	669	CJ48/60	/	3/8	3/8
e1610 2.5D 55KW 2P	80	65	125	90	650	610	470	405	280	1498	1310	110	1090	695	28	6xΦ 19(M16)	740	CJ48/60	1/4	3/8	3/8
e1610 2.5D 75KW 2P	80	65	125	90	700	660	470	390	280	1575	1360	110	1140	680	30	6xΦ 19(M16)	958	CJ55/70	1/4	3/8	3/8
e1610 2.5D 90KW 2P	80	65	125	90	700	660	470	390	280	1625	1410	110	1190	680	30	6xΦ 19(M16)	993	CJ55/70	1/4	3/8	3/8
e1610 3.25A 11KW 2P	100	80	125	73	440	400	360	280	225	1187	930	205	520	515	24	4xΦ 19(M16)	194	CJ38/45	/	3/8	3/8
e1610 3.25A 15KW 2P	100	80	125	73	440	400	360	280	225	1187	930	205	520	515	24	4xΦ 19(M16)	211	CJ38/45	/	3/8	3/8
e1610 3.25A 18.5KW 2P	100	80	125	73	440	400	360	280	225	1217	970	205	560	515	24	4xΦ 19(M16)	224	CJ38/45	/	3/8	3/8
e1610 3.25A 22KW 2P	100	80	125	73	470	430	360	280	225	1238	980	205	570	515	26	4xΦ 19(M16)	291	CJ42/55	/	3/8	3/8
e1610 3.25B 22KW 2P	100	80	125	73	470	430	470	280	250	1348	1090	205	680	540	26	4xΦ 19(M16)	308	CJ42/55	/	3/8	3/8
e1610 3.25B 30KW 2P	100	80	125	73	520	480	470	310	250	1369	1160	230	700	570	26	4xΦ 19(M16)	390	CJ42/55	/	3/8	3/8
e1610 3.25B 37KW 2P	100	80	125	73	520	480	470	310	250	1369	1160	230	700	570	26	4xΦ 19(M16)	411	CJ42/55	/	3/8	3/8
e1610 3.25B 45KW 2P	100	80	125	73	590	550	470	365	250	1384	1200	230	740	625	26	4xΦ 19(M16)	562	CJ42/55	/	3/8	3/8
e1610 3.25C 37KW 2P	100	80	125	90	520	480	470	310	280	1386	1180	230	720	600	26	4xΦ 19(M16)	414	CJ42/55	/	3/8	3/8
e1610 3.25C 45KW 2P	100	80	125	90	580	540	470	365	280	1401	1210	230	750	655	26	4xΦ 19(M16)	565	CJ42/55	/	3/8	3/8
e1610 3.25C 55KW 2P	100	80	125	90	650	610	470	390	280	1498	1310	270	770	680	28	4xΦ 19(M16)	674	CJ48/60	/	3/8	3/8
e1610 3.25C 75KW 2P	100	80	125	90	730	690	470	420	280	1575	1360	300	760	710	30	4xΦ 19(M16)	942	CJ55/70	/	3/8	3/8
e1610 3.25DT 90KW 2P	100	80	125	90	710	670	530	440	315	1690	1480	110	1260	765	35	6xΦ 19(M16)	1061	CJ65/75	1/4	3/8	3/8
e1610 3.25DT 110KW 2P	100	80	125	90	820	760	530	505	315	1840	1500	110	1280	830	35	6xΦ 23(M20)	1340	CJ65/75	1/4	3/8	3/8
e1610 3.25DT 132KW 2P	100	80	125	90	820	770	530	505	315	1955	1600	110	1380	830	40	6xΦ 23(M20)	1426	CJ75/90	1/4	3/8	3/8
e1610 3.25DT 160KW 2P	100	80	125	90	820	770	530	505	315	1955	1630	110	1410	830	40	6xΦ 23(M20)	1507	CJ75/90	1/4	3/8	3/8
e1610 4A 15KW 2P	125	100	125	90	520	470	470	365	280	1314	1050	110	830	655	24	6xΦ 23(M20)	304	CJ38/45	1/4	3/8	3/8
e1610 4A 18.5KW 2P	125	100	125	90	520	470	470	365	280	1344	1100	110	880	655	24	6xΦ 23(M20)	312	CJ38/45	1/4	3/8	3/8
e1610 4A 22KW 2P	125	100	125	90	530	480	470	385	280	1365	1110	110	890	675	26	6xΦ 23(M20)	385	CJ42/55	1/4	3/8	3/8
e1610 4A 30KW 2P	125	100	125	90	520	480	470	330	280	1386	1180	110	960	620	26	6xΦ 19(M16)	422	CJ42/55	1/4	3/8	3/8
e1610 4B 30KW 2P	125	100	125	90	520	480	470	330	280	1386	1180	110	960	620	26	6xΦ 19(M16)	430	CJ42/55	1/4	3/8	3/8
e1610 4B 37KW 2P	125	100	125	90	520	480	470	330	280	1386	1180	110	960	620	26	6xΦ 19(M16)	451	CJ42/55	1/4	3/8	3/8
e1610 4B 45KW 2P	125	100	125	90	570	530	470	355	280	1401	1210	110	990	645	26	6xΦ 19(M16)	610	CJ42/55	1/4	3/8	3/8
e1610 4B 55KW 2P	125	100	125	90	660	620	470	405	280	1498	1310	110	1090	695	28	6xΦ 19(M16)	735	CJ48/60	1/4	3/8	3/8
e1610 4C 45KW 2P	125	100	140	90	560	520	470	355	280	1401	1210	110	990	645	26	6xΦ 19(M16)	612	CJ42/55	1/4	3/8	3/8
e1610 4C 55KW 2P	125	100	140	90	650	610	470	405	280	1498	1310	110	1090	695	28	6xΦ 19(M16)	738	CJ48/60	1/4	3/8	3/8
e1610 4C 75KW 2P	125	100	140	90	700	660	470	390	280	1575	1360	110	1140	680	30	6xΦ 19(M16)	956	CJ55/70	1/4	3/8	3/8
e1610 4C 90KW 2P	125	100	140	90	700	660	470	390	280	1625	1410	110	1190	680	30	6xΦ 19(M16)	991	CJ55/70	1/4	3/8	3/8
e1610 4DT 110KW 2P	125	100	140	90	820	760	530	505	315	1840	1500	110	1280	830	35	6xΦ 23(M20)	1343	CJ65/75	1/4	3/8	3/8
e1610 4DT 132KW 2P	125	100	140	90	820	770	530	505	315	1955	1600	110	1380	830	40	6xΦ 23(M20)	1429	CJ75/90	1/4	3/8	3/8
e1610 4DT 160KW 2P	125	100	140	90	820	770	530	505	315	1955	1630	110	1410	830	40	6xΦ 23(M20)	1510	CJ75/90	1/4	3/8	3/8
e1610 5B 45KW 2P	150	125	140	90	550	510	470	355	315	1401	1210	110	990	680	26	6xΦ 19(M16)	617	CJ42/55	1/4	3/8	3/8
e1610 5B 55KW 2P	150	125	140	90	620	580	470	405	315	1498	1310	110	1090	730	28	6xΦ 19(M16)	743	CJ48/60	1/4	3/8	3/8
e1610 5B 75KW 2P	150	125	140	90	680	640	470	405	315	1575	1360	110	1140	730	30	6xΦ 19(M16)	970	CJ55/70	1/4	3/8	3/8
e1610 5B 90KW 2P	150	125	140	90	680	640	470	405	315	1625	1410	110	1190	730	30	6xΦ 19(M16)	1005	CJ55/70	1/4	3/8	3/8
e1610 5D 110KW 2P	150	125	140	110	810	760	530	505	355	1860	1520	110	1300	870	35	6xΦ 23(M20)	1344	CJ65/75	1/4	3/8	3/8
e1610 5D 132KW 2P	150	125	140	110	810	760	530	505	355	1975	1620	110	1400	870	40	6xΦ 23(M20)	1430	CJ75/90	1/4	3/8	3/8
e1610 5D 160KW 2P	150	125	140	110	810	760	530	505	355	1975	1650	110	1430	870	40	6xΦ 23(M20)	1511	CJ75/90	1/4	3/8	3/8
e1610 5D 200KW 2P	150	125	140	110	810	760	530	505	355	1975	1650	110	1430	870	40	6xΦ 23(M20)	1692	CJ75/90	1/4	3/8	3/8

e1610 Series Pump set Dimensions and weight



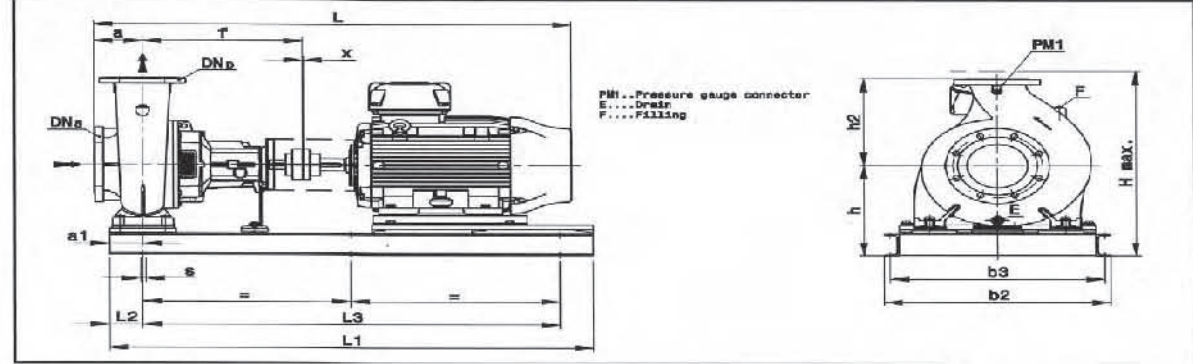
PUMPTYPE	DIMENSIONS (mm)															s	weight	couplin	connections		
	DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L2	L3	H max	x	FOR SCREWS	kg	type	PM1	E	F
e1610 1.25AS 0.55KW 4P	50	32	80	60	310	270	360	212	140	741	680	130	420	362	16	4xΦ19(M16)	65	CJ19/24	/	3/8	3/8
e1610 1.25A 0.55KW 4P	50	32	80	60	360	320	360	232	160	741	680	130	420	402	16	4xΦ19(M16)	66	CJ19/24	/	3/8	3/8
e1610 1.25B 0.55KW 4P	50	32	80	60	360	320	360	260	180	741	680	130	420	450	16	4xΦ19(M16)	73	CJ19/24	/	3/8	3/8
e1610 1.25B 0.75KW 4P	50	32	80	60	360	320	360	260	180	741	680	130	420	450	16	4xΦ19(M16)	76	CJ19/24	/	3/8	3/8
e1610 1.25B 1.1KW 4P	50	32	80	60	360	320	360	260	180	796	700	150	400	450	16	4xΦ19(M16)	85	CJ19/24	/	3/8	3/8
e1610 1.25C 1.1KW 4P	50	32	100	73	440	400	360	280	225	809	710	170	370	515	16	4xΦ19(M16)	112	CJ19/24	/	3/8	3/8
e1610 1.25C 1.5KW 4P	50	32	100	73	440	400	360	280	225	841	730	170	390	515	18	4xΦ19(M16)	117	CJ24/32	/	3/8	3/8
e1610 1.25C 2.2KW 4P	50	32	100	73	440	400	360	280	225	886	770	170	430	515	18	4xΦ19(M16)	127	CJ24/32	/	3/8	3/8
e1610 1.5AS 0.55KW 4P	65	40	80	60	330	290	360	212	140	741	680	130	420	362	16	4xΦ19(M16)	66	CJ19/24	/	3/8	3/8
e1610 1.5A 0.55KW 4P	65	40	80	60	360	320	360	232	160	741	680	130	420	402	16	4xΦ19(M16)	67	CJ19/24	/	3/8	3/8
e1610 1.5A 0.75KW 4P	65	40	80	60	360	320	360	232	160	741	680	130	420	402	16	4xΦ19(M16)	70	CJ19/24	/	3/8	3/8
e1610 1.5A 1.1KW 4P	65	40	100	60	360	320	360	232	160	796	700	150	400	402	16	4xΦ19(M16)	79	CJ19/24	/	3/8	3/8
e1610 1.5B 0.75KW 4P	65	40	100	60	390	350	360	260	180	741	680	150	380	450	16	4xΦ19(M16)	81	CJ19/24	/	3/8	3/8
e1610 1.5B 1.1KW 4P	65	40	100	60	390	350	360	260	180	796	700	150	400	450	16	4xΦ19(M16)	87	CJ19/24	/	3/8	3/8
e1610 1.5B 1.5KW 4P	65	40	100	60	390	350	360	260	180	828	710	150	410	450	18	4xΦ19(M16)	92	CJ24/32	/	3/8	3/8
e1610 1.5C 1.1KW 4P	65	40	100	73	440	400	360	280	225	809	710	170	370	515	16	4xΦ19(M16)	113	CJ19/24	/	3/8	3/8
e1610 1.5C 1.5KW 4P	65	40	100	73	440	400	360	280	225	841	730	170	390	515	18	4xΦ19(M16)	118	CJ24/32	/	3/8	3/8
e1610 1.5C 2.2KW 4P	65	40	100	73	440	400	360	280	225	886	770	170	430	515	18	4xΦ19(M16)	128	CJ24/32	/	3/8	3/8
e1610 1.5C 3KW 4P	65	40	100	73	440	400	360	280	225	886	770	170	430	515	18	4xΦ19(M16)	133	CJ24/32	/	3/8	3/8
e1610 2AS 0.55KW 4P	65	50	100	60	360	320	360	232	160	741	680	130	420	402	16	4xΦ19(M16)	69	CJ19/24	/	3/8	3/8
e1610 2AS 0.75KW 4P	65	50	100	60	360	320	360	232	160	741	680	130	420	402	16	4xΦ19(M16)	72	CJ19/24	/	3/8	3/8
e1610 2AS 1.1KW 4P	65	50	100	60	360	320	360	232	160	796	700	150	400	402	16	4xΦ19(M16)	81	CJ19/24	/	3/8	3/8
e1610 2A 0.75KW 4P	65	50	100	60	390	350	360	260	180	741	680	150	380	450	16	4xΦ19(M16)	82	CJ19/24	/	3/8	3/8
e1610 2A 1.1KW 4P	65	50	100	60	390	350	360	260	180	796	700	150	400	450	16	4xΦ19(M16)	88	CJ19/24	/	3/8	3/8
e1610 2A 1.5KW 4P	65	50	100	60	390	350	360	260	180	828	710	150	410	450	18	4xΦ19(M16)	93	CJ24/32	/	3/8	3/8
e1610 2B 1.1KW 4P	65	50	100	60	390	350	360	260	200	796	700	150	400	470	16	4xΦ19(M16)	89	CJ19/24	/	3/8	3/8
e1610 2B 1.5KW 4P	65	50	100	60	390	350	360	260	200	828	710	150	410	470	18	4xΦ19(M16)	94	CJ24/32	/	3/8	3/8
e1610 2B 2.2KW 4P	65	50	100	60	390	350	360	260	200	873	760	150	460	470	18	4xΦ19(M16)	104	CJ24/32	/	3/8	3/8
e1610 2C 2.2KW 4P	65	50	100	73	440	400	360	280	225	886	770	170	430	515	18	4xΦ19(M16)	129	CJ24/32	/	3/8	3/8
e1610 2C 3KW 4P	65	50	100	73	440	400	360	280	225	886	770	170	430	515	18	4xΦ19(M16)	134	CJ24/32	/	3/8	3/8
e1610 2C 4KW 4P	65	50	100	73	440	400	360	280	225	891	780	170	440	515	18	4xΦ19(M16)	153	CJ24/32	/	3/8	3/8
e1610 2D 4KW 4P	65	50	125	73	490	450	470	365	280	1007	900	110	680	655	24	6xΦ19(M16)	247	CJ38/45	1/4	3/8	3/8
e1610 2D 5.5KW 4P	65	50	125	73	500	450	470	385	280	1073	930	110	710	675	20	6xΦ23(M20)	258	CJ28/38	1/4	3/8	3/8
e1610 2D 7.5KW 4P	65	50	125	73	500	450	470	385	280	1113	970	110	750	675	20	6xΦ23(M20)	258	CJ28/38	1/4	3/8	3/8
e1610 2D 11KW 4P	65	50	125	73	490	450	470	365	280	1297	1040	110	820	655	24	6xΦ19(M16)	290	CJ38/45	1/4	3/8	3/8
e1610 2.5AS 0.55KW 4P	80	65	100	73	400	360	360	260	180	754	690	150	390	450	16	4xΦ19(M16)	83	CJ19/24	/	3/8	3/8
e1610 2.5AS 0.75KW 4P	80	65	100	73	400	360	360	260	180	754	690	150	390	450	16	4xΦ19(M16)	86	CJ19/24	/	3/8	3/8
e1610 2.5AS 1.1KW 4P	80	65	100	73	400	360	360	260	180	809	710	150	410	450	16	4xΦ19(M16)	92	CJ19/24	/	3/8	3/8
e1610 2.5AS 1.5KW 4P	80	65	100	73	400	360	360	260	180	841	730	150	430	450	18	4xΦ19(M16)	97	CJ24/32	/	3/8	3/8
e1610 2.5A 1.1KW 4P	80	65	100	73	400	360	360	260	200	809	710	150	410	470	16	4xΦ19(M16)	113	CJ19/24	/	3/8	3/8
e1610 2.5A 1.5KW 4P	80	65	100	73	400	360	360	260	200	841	730	150	430	470	18	4xΦ19(M16)	118	CJ24/32	/	3/8	3/8
e1610 2.5A 2.2KW 4P	80	65	100	73	400	360	360	260	200	886	770	170	430	470	18	4xΦ19(M16)	128	CJ24/32	/	3/8	3/8
e1610 2.5B 1.5KW 4P	80	65	100	73	440	400	360	280	225	841	730	170	390	515	18	4xΦ19(M16)	121	CJ24/32	/	3/8	3/8
e1610 2.5B 2.2KW 4P	80	65	100	73	440	400	360	280	225	886	770	170	430	515	18	4xΦ19(M16)	137	CJ24/32	/	3/8	3/8
e1610 2.5B 3KW 4P	80	65	100	73	440	400	360	280	225	886	770	170	430	515	18	4xΦ19(M16)	142	CJ24/32	/	3/8	3/8
e1610 2.5B 4KW 4P	80	65	100	73	440	400	360	280	225	891	780	170	440	515	18	4xΦ19(M16)	161	CJ24/32	/	3/8	3/8
e1610 2.5C 3KW 4P	80	65	100	90	480	440	470	310	250	1015	900	190	520	570	20	4xΦ19(M16)	161	CJ28/38	/	3/8	3/8
e1610 2.5C 4KW 4P	80	65	100	90	480	440	470	310	250	1020	910	190	530	570	20	4xΦ19(M16)	180	CJ28/38	/	3/8	3/8
e1610 2.5C 5.5KW 4P	80	65	100	90	480	440	470	310	250	1090	950	190	570	570	20	4xΦ19(M16)	189	CJ28/38	/	3/8	3/8
e1610 2.5C 7.5KW 4P	80	65	100	90	480	440	470	310	250	1130	980	190	600	570	20	4xΦ19(M16)	193	CJ28/38	/	3/8	3/8
e1610 2.5D 5.5KW 4P	80	65	125	90	560	510	470	385	280	1090	950	110	730	675	20	6xΦ23(M20)	265	CJ28/38	1/4	3/8	3/8
e1610 2.5D 7.5KW 4P	80	65	125	90	560	510	470	385	280	1130	980	110	760	675	20	6xΦ23(M20)	265	CJ28/38	1/4	3/8	3/8
e1610 2.5D 11KW 4P	80	65	125	90	540	500	470	370	280	1314	1050	110	830	660	24	6xΦ19(M16)	298	CJ38/45	1/4	3/8	3/8
e1610 2.5D 15KW 4P	80	65	125	90	540	500	470	370	280	1344	1100	110	880	660	24	6xΦ19(M16)	342	CJ38/45	1/4	3/8	3/8

e1610 Series Pump set Dimensions and weight



PUMPTYPE	DIMENSIONS (mm)															s	weight	coupling	connections		
	DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L2	L3	H max	x				FOR SCREWS	kg	type
e1610 3.25A 1.5KW 4P	100	80	125	73	440	400	360	280	225	841	730	170	390	515	18	4xΦ19(M16)	124	CJ24/32	/	3/8	3/8
e1610 3.25A 2.2KW 4P	100	80	125	73	440	400	360	280	225	886	770	170	430	515	18	4xΦ19(M16)	140	CJ24/32	/	3/8	3/8
e1610 3.25A 3KW 4P	100	80	125	73	440	400	360	280	225	886	770	170	430	515	18	4xΦ19(M16)	145	CJ24/32	/	3/8	3/8
e1610 3.25B 3KW 4P	100	80	125	73	470	430	470	280	250	998	880	190	500	540	20	4xΦ19(M16)	162	CJ28/38	/	3/8	3/8
e1610 3.25B 4KW 4P	100	80	125	73	470	430	470	280	250	1003	890	190	510	540	20	4xΦ19(M16)	182	CJ28/38	/	3/8	3/8
e1610 3.25B 5.5KW 4P	100	80	125	73	470	430	470	280	250	1073	930	190	550	540	20	4xΦ19(M16)	191	CJ28/38	/	3/8	3/8
e1610 3.25C 5.5KW 4P	100	80	125	90	520	480	470	310	280	1090	950	205	540	600	20	4xΦ19(M16)	200	CJ28/38	/	3/8	3/8
e1610 3.25C 7.5KW 4P	100	80	125	90	520	480	470	310	280	1130	980	205	570	600	20	4xΦ19(M16)	204	CJ28/38	/	3/8	3/8
e1610 3.25C 11KW 4P	100	80	125	90	520	480	470	310	280	1314	1050	205	640	600	24	4xΦ19(M16)	259	CJ38/45	/	3/8	3/8
e1610 3.25D 11KW 4P	100	80	125	90	520	480	470	365	315	1314	1050	110	830	690	24	6xΦ19(M16)	306	CJ38/45	1/4	3/8	3/8
e1610 3.25D 15KW 4P	100	80	125	90	520	480	470	365	315	1344	1100	110	880	690	24	6xΦ19(M16)	351	CJ38/45	1/4	3/8	3/8
e1610 3.25D 18.5KW 4P	100	80	125	90	530	490	470	385	315	1365	1110	110	890	710	26	6xΦ19(M16)	410	CJ42/55	1/4	3/8	3/8
e1610 3.25D 22KW 4P	100	80	125	90	530	490	470	385	315	1376	1150	110	930	710	26	6xΦ19(M16)	428	CJ42/55	1/4	3/8	3/8
e1610 3.25E 18.5KW 4P	100	80	125	90	570	530	530	400	355	1425	1170	110	950	765	26	6xΦ19(M16)	443	CJ42/55	1/4	3/8	3/8
e1610 3.25E 22KW 4P	100	80	125	90	570	530	530	400	355	1436	1210	110	990	765	26	6xΦ19(M16)	461	CJ42/55	1/4	3/8	3/8
e1610 3.25E 30KW 4P	100	80	125	90	580	540	530	425	355	1446	1240	110	1020	790	26	6xΦ19(M16)	514	CJ42/55	1/4	3/8	3/8
e1610 3.25E 37KW 4P	100	80	125	90	570	530	530	415	355	1470	1280	110	1060	780	30	6xΦ19(M16)	703	CJ55/70	1/4	3/8	3/8
e1610 4A 2.2KW 4P	125	100	125	90	500	460	470	355	280	1019	900	110	680	645	24	6xΦ19(M16)	217	CJ38/45	1/4	3/8	3/8
e1610 4A 3KW 4P	125	100	125	90	500	460	470	355	280	1019	900	110	680	645	24	6xΦ19(M16)	220	CJ38/45	1/4	3/8	3/8
e1610 4A 4KW 4P	125	100	125	90	520	470	470	365	280	1024	910	110	690	655	24	6xΦ23(M20)	241	CJ38/45	1/4	3/8	3/8
e1610 4B 4KW 4P	125	100	125	90	520	470	470	365	280	1024	910	110	690	655	24	6xΦ23(M20)	249	CJ38/45	1/4	3/8	3/8
e1610 4B 5.5KW 4P	125	100	125	90	530	480	470	385	280	1090	950	110	730	675	20	6xΦ23(M20)	261	CJ28/38	1/4	3/8	3/8
e1610 4B 7.5KW 4P	125	100	125	90	530	480	470	385	280	1130	980	110	760	675	20	6xΦ23(M20)	261	CJ28/38	1/4	3/8	3/8
e1610 4C 5.5KW 4P	125	100	140	90	560	510	470	385	280	1090	950	110	730	675	20	6xΦ23(M20)	263	CJ28/38	1/4	3/8	3/8
e1610 4C 7.5KW 4P	125	100	140	90	560	510	470	385	280	1130	980	110	760	675	20	6xΦ23(M20)	263	CJ28/38	1/4	3/8	3/8
e1610 4C 11KW 4P	125	100	140	90	540	500	470	370	280	1314	1050	110	830	660	24	6xΦ19(M16)	296	CJ38/45	1/4	3/8	3/8
e1610 4D 11KW 4P	125	100	140	90	520	480	470	365	315	1314	1050	110	830	690	24	6xΦ19(M16)	304	CJ38/45	1/4	3/8	3/8
e1610 4D 15KW 4P	125	100	140	90	520	480	470	365	315	1344	1100	110	880	690	24	6xΦ19(M16)	349	CJ38/45	1/4	3/8	3/8
e1610 4D 18.5KW 4P	125	100	140	90	530	490	470	385	315	1365	1110	110	890	710	26	6xΦ19(M16)	408	CJ42/55	1/4	3/8	3/8
e1610 4D 22KW 4P	125	100	140	90	530	490	470	385	315	1376	1150	110	930	710	26	6xΦ19(M16)	426	CJ42/55	1/4	3/8	3/8
e1610 4D 30KW 4P	125	100	140	90	520	480	470	355	315	1386	1180	110	960	680	26	6xΦ19(M16)	454	CJ42/55	1/4	3/8	3/8
e1610 4E 30KW 4P	125	100	140	110	640	600	530	425	355	1466	1260	110	1040	790	26	6xΦ19(M16)	543	CJ42/55	1/4	3/8	3/8
e1610 4E 37KW 4P	125	100	140	110	640	600	530	415	355	1490	1300	110	1080	780	30	6xΦ19(M16)	729	CJ55/70	1/4	3/8	3/8
e1610 4E 45KW 4P	125	100	140	110	640	600	530	415	355	1515	1330	110	1110	780	30	6xΦ19(M16)	757	CJ55/70	1/4	3/8	3/8
e1610 5B 5.5KW 4P	150	125	140	90	540	500	470	385	315	1090	950	110	730	710	20	6xΦ19(M16)	268	CJ28/38	1/4	3/8	3/8
e1610 5B 7.5KW 4P	150	125	140	90	540	500	470	385	315	1130	980	110	760	710	20	6xΦ19(M16)	268	CJ28/38	1/4	3/8	3/8
e1610 5B 11KW 4P	150	125	140	90	520	480	470	365	315	1314	1050	110	830	690	24	6xΦ19(M16)	300	CJ38/45	1/4	3/8	3/8
e1610 5C 7.5KW 4P	150	125	140	90	540	500	470	385	355	1130	980	110	760	750	20	6xΦ19(M16)	268	CJ28/38	1/4	3/8	3/8
e1610 5C 11KW 4P	150	125	140	90	520	480	470	365	355	1314	1050	110	830	730	24	6xΦ19(M16)	300	CJ38/45	1/4	3/8	3/8
e1610 5C 15KW 4P	150	125	140	90	520	480	470	365	355	1344	1100	110	880	730	24	6xΦ19(M16)	345	CJ38/45	1/4	3/8	3/8
e1610 5D 18.5KW 4P	150	125	140	110	630	590	530	400	355	1445	1190	110	970	765	26	6xΦ19(M16)	444	CJ42/55	1/4	3/8	3/8
e1610 5D 22KW 4P	150	125	140	110	630	590	530	400	355	1456	1230	110	1010	765	26	6xΦ19(M16)	462	CJ42/55	1/4	3/8	3/8
e1610 5D 30KW 4P	150	125	140	110	640	600	530	425	355	1466	1260	110	1040	790	26	6xΦ19(M16)	517	CJ42/55	1/4	3/8	3/8
e1610 5D 37KW 4P	150	125	140	110	640	600	530	415	355	1490	1300	110	1080	780	30	6xΦ19(M16)	703	CJ55/70	1/4	3/8	3/8
e1610 5E 37KW 4P	150	125	140	110	630	590	530	440	400	1490	1300	110	1080	850	30	6xΦ19(M16)	753	CJ55/70	1/4	3/8	3/8
e1610 5E 45KW 4P	150	125	140	110	630	590	530	440	400	1515	1330	110	1110	850	30	6xΦ19(M16)	781	CJ55/70	1/4	3/8	3/8
e1610 5E 55KW 4P	150	125	140	110	630	590	530	440	400	1585	1400	110	1180	850	35	6xΦ19(M16)	865	CJ65/75	1/4	3/8	3/8
e1610 5E 75KW 4P	150	125	140	110	670	630	530	440	400	1665	1450	110	1230	850	40	6xΦ19(M16)	1075	CJ75/90	1/4	3/8	3/8
e1610 6B 11KW 4P	200	150	160	110	670	630	470	385	400	1334	1070	110	850	795	24	6xΦ19(M16)	357	CJ38/45	1/4	3/8	3/8
e1610 6B 15KW 4P	200	150	160	110	670	630	470	385	400	1364	1120	110	900	795	24	6xΦ19(M16)	402	CJ38/45	1/4	3/8	3/8
e1610 6C 15KW 4P	200	150	160	110	620	580	530	385	400	1426	1180	110	960	795	26	6xΦ19(M16)	413	CJ42/55	1/4	3/8	3/8
e1610 6C 18.5KW 4P	200	150	160	110	630	590	530	400	400	1445	1190	110	970	810	26	6xΦ19(M16)	472	CJ42/55	1/4	3/8	3/8
e1610 6C 22KW 4P	200	150	160	110	630	590	530	400	400	1456	1230	110	1010	810	26	6xΦ19(M16)	490	CJ42/55	1/4	3/8	3/8
e1610 6C 30KW 4P	200	150	160	110	640	600	530	425	400	1466	1260	110	1040	835	26	6xΦ19(M16)	545	CJ42/55	1/4	3/8	3/8

e1610 Series Pump set Dimensions and weight



PUMPTYPE	DIMENSIONS (mm)															s	weight	coupling		connections		
	DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L2	L3	H max	x			FOR SCREWS	kg	type	PM1	E
e1610 6D 30KW 4P	200	150	160	110	690	650	530	425	400	1466	1260	110	1040	835	26	6xΦ19(M16)	551	CJ42/55	1/4	3/8	3/8	
e1610 6D 37KW 4P	200	150	160	110	680	640	530	415	400	1490	1300	110	1080	825	30	6xΦ19(M16)	737	CJ55/70	1/4	3/8	3/8	
e1610 6D 45KW 4P	200	150	160	110	680	640	530	415	400	1515	1330	110	1110	825	30	6xΦ19(M16)	765	CJ55/70	1/4	3/8	3/8	
e1610 6E 45KW 4P	200	150	160	110	680	640	530	440	450	1515	1330	110	1110	900	30	6xΦ19(M16)	809	CJ55/70	1/4	3/8	3/8	
e1610 6E 55KW 4P	200	150	160	110	680	640	530	440	450	1585	1400	110	1180	900	35	6xΦ19(M16)	893	CJ65/75	1/4	3/8	3/8	
e1610 6E 75KW 4P	200	150	160	110	680	640	530	440	450	1665	1450	110	1230	900	40	6xΦ19(M16)	1103	CJ75/90	1/4	3/8	3/8	
e1610 6E 90KW 4P	200	150	160	110	680	640	530	440	450	1715	1500	110	1280	900	40	6xΦ19(M16)	1151	CJ75/90	1/4	3/8	3/8	
e1610 6E 110KW 4P	200	150	160	110	760	720	530	440	450	1895	1560	110	1340	900	40	6xΦ19(M16)	1258	CJ75/90	1/4	3/8	3/8	
e1610 6H 90KW 4P	200	150	180	160	870	820	770	565	500	2005	1790	165	1460	1075	40	6xΦ23(M20)	1384	CJ75/90	1/4	3/8	3/8	
e1610 6H 110KW 4P	200	150	180	160	880	830	770	585	500	2185	1850	165	1520	1095	40	6xΦ23(M20)	1678	CJ75/90	1/4	3/8	3/8	
e1610 6H 132KW 4P	200	150	180	160	880	830	770	585	500	2295	1940	165	1610	1095	40	6xΦ23(M20)	1763	CJ75/90	1/4	3/8	3/8	
e1610 6H 160KW 4P	200	150	180	160	880	830	770	585	500	2300	1970	165	1640	1095	45	6xΦ23(M20)	1820	CJ90/100	1/4	3/8	3/8	
e1610 6H 200KW 4P	200	150	180	160	880	830	770	585	500	2300	1970	165	1640	1095	45	6xΦ23(M20)	2005	CJ90/100	1/4	3/8	3/8	
e1610 8C 18.5KW 4P	250	200	180	110	680	640	530	460	475	1445	1190	110	970	945	26	6xΦ19(M16)	527	CJ42/55	1/2	1/2	/	
e1610 8C 22KW 4P	250	200	180	110	680	640	530	460	475	1456	1230	110	1010	945	26	6xΦ19(M16)	545	CJ42/55	1/2	1/2	/	
e1610 8C 30KW 4P	250	200	180	110	680	640	530	460	475	1466	1260	110	1040	945	26	6xΦ19(M16)	588	CJ42/55	1/2	1/2	/	
e1610 8D 30KW 4P	250	200	180	110	680	640	530	460	450	1466	1260	110	1040	920	26	6xΦ19(M16)	592	CJ42/55	1/2	1/2	/	
e1610 8D 37KW 4P	250	200	180	110	680	640	530	480	450	1490	1300	110	1080	940	30	6xΦ19(M16)	791	CJ55/70	1/2	1/2	/	
e1610 8D 45KW 4P	250	200	180	110	680	640	530	480	450	1515	1330	110	1110	940	30	6xΦ19(M16)	819	CJ55/70	1/2	1/2	/	
e1610 8D 55KW 4P	250	200	180	110	680	640	530	480	450	1585	1400	110	1180	940	35	6xΦ19(M16)	904	CJ65/75	1/2	1/2	/	
e1610 8D 75KW 4P	250	200	180	110	680	640	530	480	450	1665	1450	110	1230	940	40	6xΦ19(M16)	1113	CJ75/90	1/2	1/2	/	
e1610 8E 75KW 4P	250	200	180	160	870	820	770	565	500	1955	1740	165	1410	1075	40	6xΦ23(M20)	1291	CJ75/90	1/2	1/2	/	
e1610 8E 90KW 4P	250	200	180	160	870	820	770	565	500	2005	1790	165	1460	1075	40	6xΦ23(M20)	1339	CJ75/90	1/2	1/2	/	
e1610 8E 110KW 4P	250	200	180	160	880	830	770	585	500	2185	1850	165	1520	1095	40	6xΦ23(M20)	1633	CJ75/90	1/2	1/2	/	
e1610 8E 132KW 4P	250	200	180	160	880	830	770	585	500	2295	1940	165	1610	1095	40	6xΦ23(M20)	1718	CJ75/90	1/2	1/2	/	
e1610 8H 132KW 4P	250	200	200	160	880	830	770	635	560	2295	1940	165	1610	1205	40	6xΦ23(M20)	1778	CJ75/90	1/2	1/2	/	
e1610 8H 160KW 4P	250	200	200	160	880	830	770	635	560	2300	1970	165	1640	1205	45	6xΦ23(M20)	1835	CJ90/100	1/2	1/2	/	
e1610 8H 200KW 4P	250	200	200	160	880	830	770	635	560	2300	1970	165	1640	1205	45	6xΦ23(M20)	2019	CJ90/100	1/2	1/2	/	
e1610 8H 220KW 4P	250	200	200	160	890	840	770	635	560	2505	2070	165	1740	1205	45	6xΦ23(M20)	2214	CJ90/100	1/2	1/2	/	
e1610 8H 250KW 4P	250	200	200	160	890	840	770	635	560	2505	2070	165	1740	1205	45	6xΦ23(M20)	2214	CJ90/100	1/2	1/2	/	
e1610 8H 280KW 4P	250	200	200	160	910	850	770	675	560	2505	2100	165	1770	1245	45	6xΦ28(M24)	2553	CJ90/100	1/2	1/2	/	
e1610 8H 315KW 4P	250	200	200	160	910	850	770	675	560	2505	2100	165	1770	1245	45	6xΦ28(M24)	2553	CJ90/100	1/2	1/2	/	
e1610 10D 37KW 4P	300	250	250	160	840	800	530	525	500	1540	1350	165	1020	1035	30	6xΦ19(M16)	905	CJ55/70	1/2	1/2	/	
e1610 10D 45KW 4P	300	250	250	160	840	800	530	525	500	1565	1380	165	1050	1035	30	6xΦ19(M16)	933	CJ55/70	1/2	1/2	/	
e1610 10D 55KW 4P	300	250	250	160	840	800	530	525	500	1635	1450	165	1120	1035	35	6xΦ19(M16)	1017	CJ65/75	1/2	1/2	/	
e1610 10D 75KW 4P	300	250	250	160	840	800	530	525	500	1715	1500	165	1170	1035	40	6xΦ19(M16)	1227	CJ75/90	1/2	1/2	/	
e1610 10E 75KW 4P	300	250	200	160	870	820	770	565	560	1955	1740	165	1410	1135	40	6xΦ23(M20)	1328	CJ75/90	1/2	1/2	/	
e1610 10E 90KW 4P	300	250	200	160	870	820	770	565	560	2005	1790	165	1460	1135	40	6xΦ23(M20)	1376	CJ75/90	1/2	1/2	/	
e1610 10E 110KW 4P	300	250	200	160	880	830	770	585	560	2185	1850	165	1520	1155	40	6xΦ23(M20)	1670	CJ75/90	1/2	1/2	/	
e1610 10E 132KW 4P	300	250	200	160	880	830	770	585	560	2295	1940	165	1610	1155	40	6xΦ23(M20)	1755	CJ75/90	1/2	1/2	/	
e1610 10E 160KW 4P	300	250	200	160	880	830	770	585	560	2300	1970	165	1640	1155	45	6xΦ23(M20)	1812	CJ90/100	1/2	1/2	/	
e1610 10E 200KW 4P	300	250	200	160	880	830	770	585	560	2300	1970	165	1640	1155	45	6xΦ23(M20)	1997	CJ90/100	1/2	1/2	/	
e1610 10H 160KW 4P	300	250	200	160	880	830	770	635	670	2300	1970	165	1640	1315	45	6xΦ23(M20)	1886	CJ90/100	1/2	1/2	/	
e1610 10H 200KW 4P	300	250	200	160	880	830	770	635	670	2300	1970	165	1640	1315	45	6xΦ23(M20)	2070	CJ90/100	1/2	1/2	/	
e1610 10H 220KW 4P	300	250	200	160	890	840	770	635	670	2505	2070	165	1740	1315	45	6xΦ23(M20)	2265	CJ90/100	1/2	1/2	/	
e1610 10H 250KW 4P	300	250	200	160	890	840	770	635	670	2505	2070	165	1740	1315	45	6xΦ23(M20)	2265	CJ90/100	1/2	1/2	/	
e1610 10H 280KW 4P	300	250	200	160	910	850	770	675	670	2505	2100	165	1770	1355	45	6xΦ28(M24)	2604	CJ90/100	1/2	1/2	/	
e1610 10H 315KW 4P	300	250	200	160	910	850	770	675	670	2505	2100	165	1770	1355	45	6xΦ28(M24)	2604	CJ90/100	1/2	1/2	/	
e1610 10H 355KW 4P	300	250	200	160	950	890	770	675	670	2505	2520	165	2190	1355	45	6xΦ28(M24)	2710	CJ90/100	1/2	1/2	/	
e1610 12D 75KW 4P	350	300	250	185	960	910	800	620	600	2010	1800	200	1400	1230	40	6xΦ23(M20)	1514	CJ75/90	1/2	1/2	/	
e1610 12D 90KW 4P	350	300	250	185	960	910	800	620	600	2060	1850	200	1450	1230	40	6xΦ23(M20)	1562	CJ75/90	1/2	1/2	/	
e1610 12D 110KW 4P	350	300	250	185	970	920	800	640	600	2240	1900	200	1500	1250	40	6xΦ23(M20)	1871	CJ75/90	1/2	1/2	/	
e1610 12E 110KW 4P	350	300	250	185	970	920	800	640	600	2240	1900	200	1500	1250	40	6xΦ23(M20)	1875	CJ75/90	1/2	1/2	/	
e1610 12E 132KW 4P	350	300	250	185	970	920	800	640	600	2350	2000	200	1600	1250	40	6xΦ23(M20)	1960	CJ75/90	1/2	1/2	/	
e1610 12E 160KW 4P	350	300	250	185	970	920	800	640	600	2355	2030	200	1630	1250	45	6xΦ23(M20)	2017	CJ90/100	1/2	1/2	/	
e1610 12E 200KW 4P	350	300	250	185	970	920	800	640	600	2355	2030	200	1630	1250	45	6xΦ23(M20)	2201	CJ90/100	1/2	1/2	/	
e1610 12E 220KW 4P	350	300	250	185	970	920	800	640	600	2560	2120	200	1720	1250	45	6xΦ23(M20)	2396	CJ90/100	1/2	1/2	/	
e1610 12E 250KW 4P	350	300	250	185	970	920	800	640	600	2560	2120	200	1720	1250	45	6xΦ23(M20)	2396	CJ90/100	1/2	1/2	/	
e1610 12F 160KW 4P	350	300	250	185	970	920	800	665	630	2355	2030	200	1630	1305	45	6xΦ23(M20)	2058	CJ90/100	1/2	1/2	/	
e1610 12F 200KW 4P	350	300	250	185	970	920	800	665	630	2355	2030	200	1630	1305	45	6xΦ23(M20)	2243	CJ90/100	1/2	1/2	/	
e1610 12F 220KW 4P	350	300	250	185	970	920	800	665	630													

e1610 ...H Series (e1610 or e1631 with HYDROVAR)

Background and context

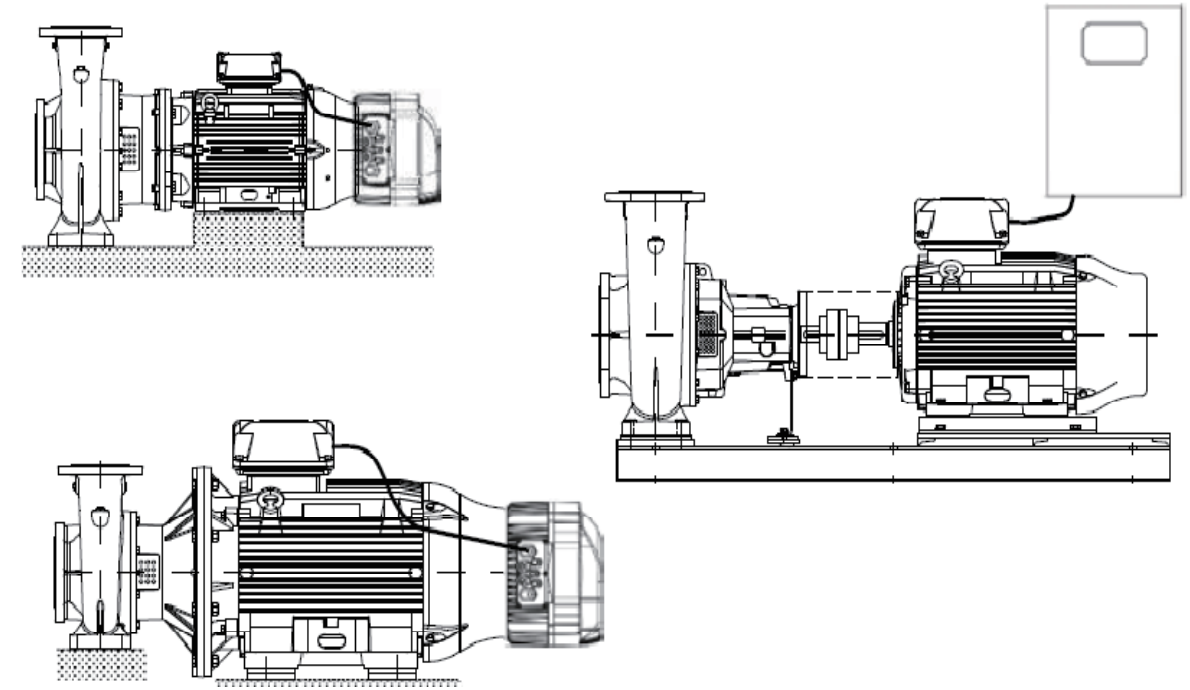
In all areas of application, such as building services, industry, agriculture and air-handling, the demand for Intelligent pump systems is constantly growing. There are many advantages, reduced cost for pump life cycle, lower environmental impact, longer lifetime of pipes and unions. That is why we have developed the e 1610...H: An intelligent pumping system which assures high level performance with energy consumption tailored to The system's demand.

Benefits of e-1610 with HYDROVAR

- **Saving:**
e 1610...H transforms the e 1610 pumps into variable speed intelligent pumping systems. Thanks to the HYDROVAR, the speed of each pump varies so as to maintain a constant flow, a constant pressure, or a differential pressure. The pump only receives the energy required, thus allowing considerable saving, especially for those systems in which demands varies during the day.
- **Easy installation and space-saving:**
e 1610...H saves time and space during installation. Installed directly on the motor (up to 22kW). Which cools it down and does not require a further control panel, only fuses on the supply line (Will depend on any local electrical installation regulations). The wall-mounted HYDROVAR version is available for higher power outputs (up to 45 kW).
- **Standard motors:**
e1610...H models are fitted with three- phase standard TEFC motors with insulation class 155 (F).

Special features/benefits:

- **No need for additional pressure sensors**
e1610...H is fitted with a pressure transmitter or differential pressure transmitters, depending on the application.
- **No need for special pumps or motors.**
- **No need for bypass or safety systems:**
With HYDROVAR the pump immediately switches off when demand drops to zero or when it exceeds maximum pump capacity; thus making installation of additional safety devices unnecessary. .
- **Anti-condensation device:**
All units are fitted with anti-condensation devices which switch on when the pump is in standby in order to prevent condensation forming in the unit.



The basic function of the HYDROVAR device is to control the pump to meet the system demands.

HYDROVAR performs these functions by:

- 1) Measuring the system pressure or flow via a transmitter mounted on the pump's delivery side.
- 2) Calculating the motor speed to maintain the correct flow or pressure.
- 3) Sending out a signal to the pump to start the motor, increase speed, decrease speed or stop.
- 4) In the case of multiple pump installations, HYDROVAR will automatically provide for the cyclic changeover of the pumps' starting sequence.

In addition to these basic functions, HYDROVAR can do things only by the most advanced computerized control systems. Such as:

- Stop the pump(s) at zero demand.
- Stop the pump(s) in case of water failure on the suction side (protection against dry running).
- Stop the pump if the required delivery exceeds the pump's capacity (protection against cavitation caused by excessive demand), or automatically switch on the next pump in a multiple series.
- Vary the pump speed: acceleration and deceleration time.
- Protect the pump and motor from over-voltage, under voltage, overload, and earth fault.
- Compensate for increased flow resistance at high flow rates.
- Conduct automatic tests at set intervals.
- Monitor the converter and motor operating hours.
- Display all functions on an LCD in different languages (Italian, English, French, German, Spanish, Portuguese, Dutch).
- Send a signal to a remote control system which is proportional to the pressure and frequency.
- Communicate with another HYDROVAR or control system via an RS 485 interface.

e1631 Series Shim for Pump and Motor Feet

Technical drawing of a motor assembly showing dimensions h_4 , h_1 , $P/2$, and H .

[illegible]

e1631 Series Shim for Pump and Motor Feet

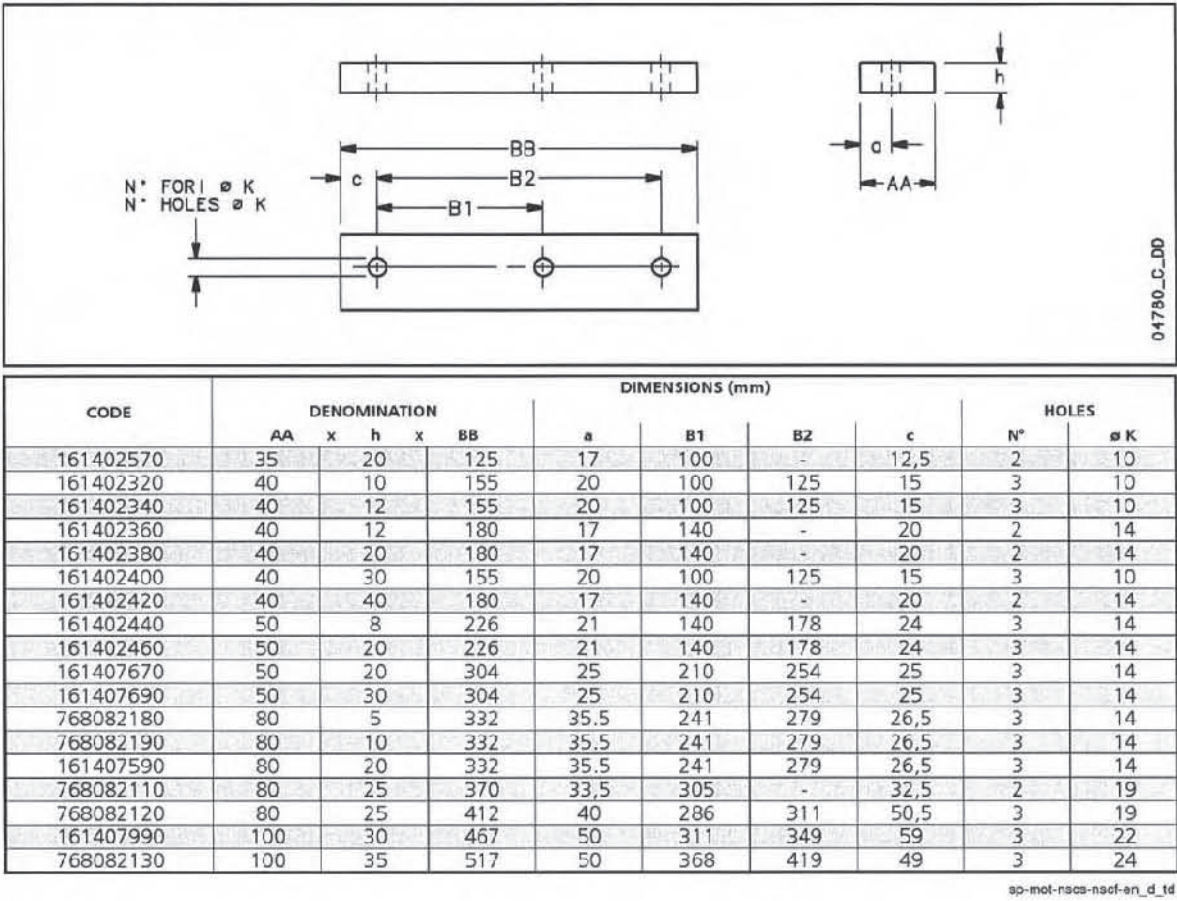
Technical drawing of a motor assembly. The drawing shows a side view of the motor with the following dimensions labeled:

- h_4 : Total height from the base to the top of the motor housing.
- h_1 : Height from the base to the top of the motor frame.
- $P/2$: Distance from the center of the motor frame to the center of the motor housing.
- H : Height from the base to the top of the motor housing.

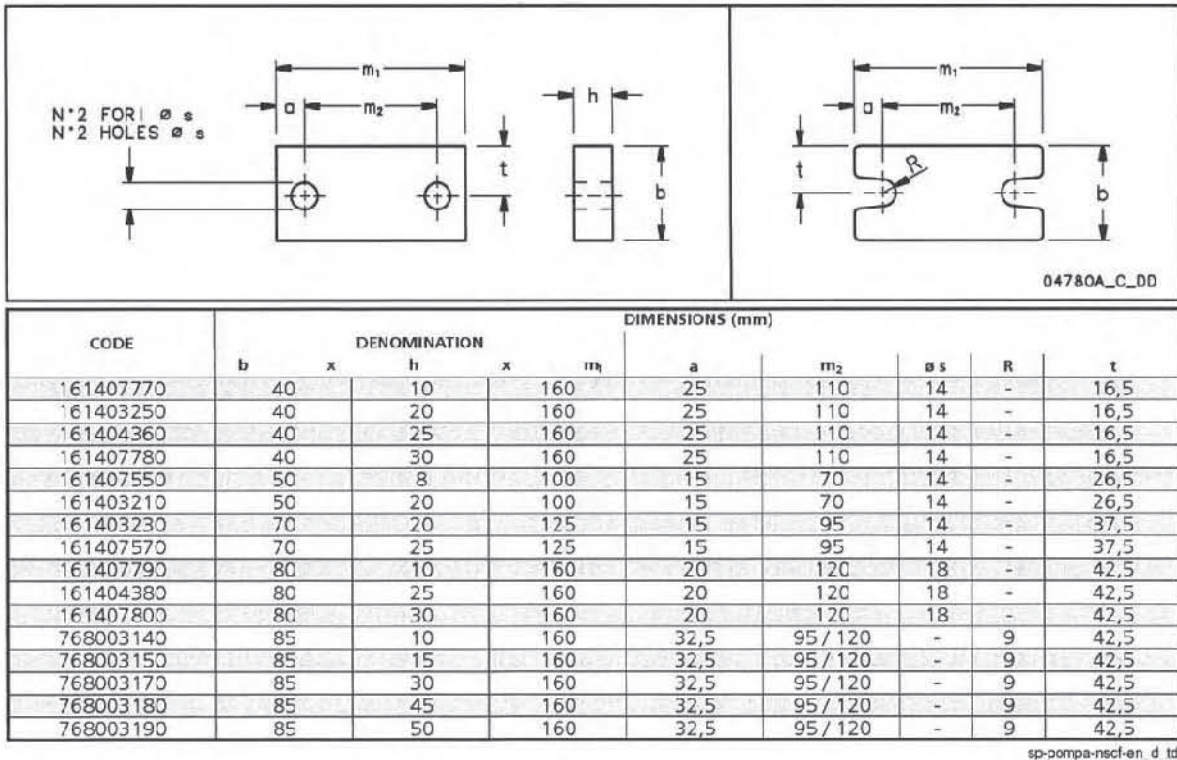
PUMP TYPE	DIMENSIONS(mm)				CODE		PUMP TYPE	DIMENSIONS(mm)				CODE		
	e1631..4	PUMP	MOTOR		h4	PUMP		Motor	e1631..4	PUMP	MOTOR		h4	PUMP
	h1	P/2	H					h1	P/2	H				
e1631 4A 2.2KWA 4P	200	125	-	200	-	-		e1631 6E 45KW 4P	315	225	225	315	-	1 x 743760180▲
e1631 4A 2.2KW 4P	200	125	-	200	-	-		e1631 6E 55KW 4P	315	275	250	315	-	1 x 743760130▲
e1631 4A 3KW 4P	200	125	-	200	-	-		e1631 6E 75KW 4P	315	275	280	315	-	2 x 768082130
e1631 4A 4KW 4P	200	125	-	200	-	-		e1631 6E 90KW 4P	315	275	280	315	-	2 x 768082130
e1631 4B 4KW 4P	200	125	-	200	-	-		e1631 8C 18.5KW 4P	355	175	180	355	-	1 x 743760320▲
e1631 4B 5.5KW 4P	200	150	-	200	-	-		e1631 8C 22KW 4P	355	175	180	355	-	1 x 743760320▲
e1631 4B 7.5KW 4P	200	150	-	200	-	-		e1631 8C 30KWA 4P	355	200	200	355	-	1 x 743760250▲
e1631 4C 7.5KW 4P	225	150	-	225	-	-		e1631 8C 30KW 4P	355	200	200	355	-	1 x 743760250▲
e1631 4C 11KW 4P	225	175	160	225	-	1 x 743760350▲		e1631 8D 37KW 4P	355	225	225	355	-	1 x 743760190▲
e1631 4D 11KW 4P	250	175	160	250	-	1 x 743760360▲		e1631 8D 45KW 4P	355	225	225	355	-	1 x 743760190▲
e1631 4D 15KW 4P	250	175	160	250	-	1 x 743760360▲		e1631 8D 55KW 4P	355	275	250	355	-	1 x 743760140▲
e1631 4D 18.5KW 4P	250	175	180	250	-	1 x 743760290▲		e1631 8D 75KW 4P	355	275	280	355	-	1 x 743760100▲
e1631 4D 22KW 4P	250	175	180	250	-	1 x 743760290▲		e1631 10D 37KW 4P	400	225	225	400	-	1 x 743760200▲
e1631 4D 30KW 4P	250	200	200	250	-	1 x 743760220▲		e1631 10D 45KW 4P	400	225	225	400	-	1 x 743760200▲
e1631 4E 30KW 4P	280	200	200	280	-	1 x 743760230▲		e1631 10D 55KW 4P	400	275	250	400	-	1 x 743760150▲
e1631 4E 37KW 4P	280	225	225	280	-	1 x 743760170▲		e1631 10D 75KW 4P	400	275	280	400	-	1 x 743760110▲
e1631 4E 45KW 4P	280	225	225	280	-	1 x 743760170▲								
e1631 5B 5.5KW 4P	250	150	-	250	-	-								
e1631 5B 7.5KW 4P	250	150	-	250	-	-								
e1631 5B 11KW 4P	250	175	160	250	-	1 x 743760360▲								
e1631 5C 11KW 4P	250	175	160	250	-	1 x 743760360▲								
e1631 5C 15KW 4P	250	175	160	250	-	1 x 743760360▲								
e1631 5D 18.5KW 4P	280	175	180	280	-	1 x 743760300▲								
e1631 5D 22KW 4P	280	175	180	280	-	1 x 743760300▲								
e1631 5D 30KW 4P	280	200	200	280	-	1 x 743760230▲								
e1631 5D 37KW 4P	280	225	225	280	-	1 x 743760170▲								
e1631 5E 37KW 4P	315	225	225	315	-	1 x 743760180▲								
e1631 5E 45KW 4P	315	225	225	315	-	1 x 743760180▲								
e1631 5E 55KW 4P	315	275	250	315	-	1 x 743760130▲								
e1631 5E 75KW 4P	315	275	280	315	-	2 x 768082130								
e1631 6B 11KWA 4P	280	175	160	280	-	1 x 743760370▲								
e1631 6B 11KW 4P	280	175	160	280	-	1 x 743760370▲								
e1631 6B 15KWA 4P	280	175	160	280	-	1 x 743760370▲								
e1631 6B 15KW 4P	280	175	160	280	-	1 x 743760370▲								
e1631 6C 15KW 4P	280	175	160	280	-	1 x 743760370▲								
e1631 6C 18.5KW 4P	280	175	180	280	-	1 x 743760300▲								
e1631 6C 22KW 4P	280	175	180	280	-	1 x 743760300▲								
e1631 6C 30KW 4P	280	200	200	280	-	1 x 743760230▲								
e1631 6D 30KW 4P	280	200	200	280	-	1 x 743760230▲								
e1631 6D 37KW 4P	280	225	225	280	-	1 x 743760170▲								
e1631 6D 45KW 4P	280	225	225	280	-	1 x 743760170▲								

Accessories

SHIM For Motor Feet

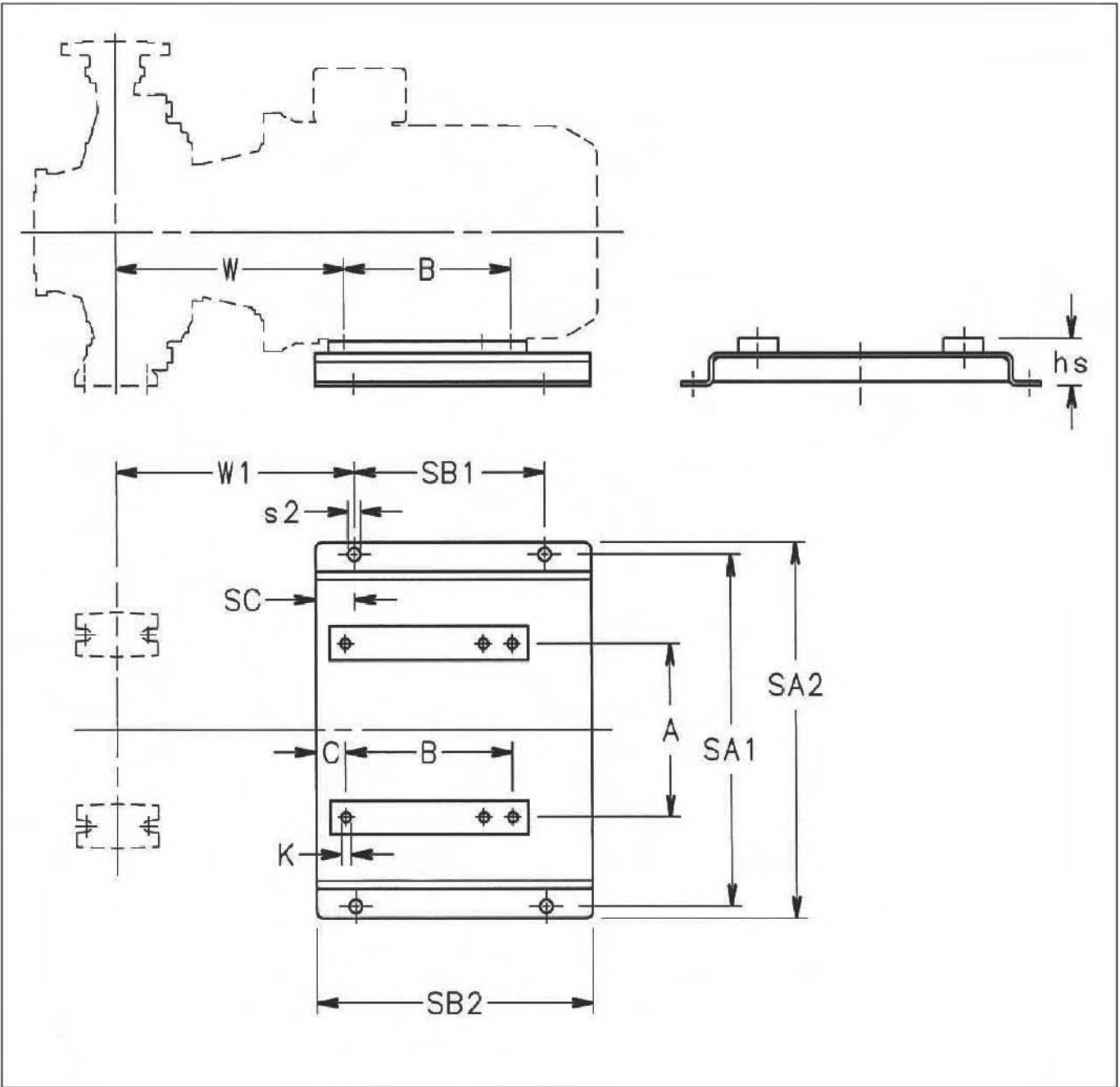


SHIM For Pump Feet



Accessories

e1631 Support Base Kit



Accessories

e1631 Series Support Base Kit(50Hz,4Poles)

CODE KIT	PUMP TYPE e1631..4	DIMENSIONS(mm)											
		B	C	hs	K	W	W1	SA1	SA2	SB1	SB2	SC	s2
743760350	e1631 2D 11KW 4P	210	32.5	65	14.5	348	375.5	515	550	290	420	60	19
743760350	e1631 2.5D 11KW 4P	210	32.5	65	14.5	348	375.5	515	550	290	420	60	19
743760350	e1631 2.5D 15KW 4P	254	32.5	65	14.5	348	375.5	515	550	290	420	60	19
743760360	e1631 3.25D 11KWA 4P	210	32.5	90	14.5	348	375.5	515	550	290	420	60	19
743760360	e1631 3.25D 11KW 4P	210	32.5	90	14.5	348	375.5	515	550	290	420	60	19
743760360	e1631 3.25D 15KW 4P	254	32.5	90	14.5	348	375.5	515	550	290	420	60	19
743760290	e1631 3.25D 18.5KW 4P	241	45.5	70	14.5	361	375.5	515	550	290	420	60	19
743760290	e1631 3.25D 22KW 4P	279	45.5	70	14.5	361	375.5	515	550	290	420	60	19
743760300	e1631 3.25E 18.5KW 4P	241	45.5	100	14.5	375	389.5	515	550	290	420	60	19
743760300	e1631 3.25E 22KW 4P	279	45.5	100	14.5	375	389.5	515	550	290	420	60	19
743760230	e1631 3.25E 30KW 4P	305	57.5	80	18.5	387	389.5	515	550	290	420	60	19
743760170	e1631 3.25E 37KW 4P	286/311	60	55	18.5	433	433	605	640	392	510	60	19
743760350	e1631 4C 11KW 4P	210	32.5	65	14.5	348	375.5	515	550	290	420	60	19
743760360	e1631 4D 11KW 4P	210	32.5	90	14.5	348	375.5	515	550	290	420	60	19
743760360	e1631 4D 15KW 4P	254	32.5	90	14.5	348	375.5	515	550	290	420	60	19
743760290	e1631 4D 18.5KW 4P	241	45.5	70	14.5	361	375.5	515	550	290	420	60	19
743760290	e1631 4D 22KW 4P	279	45.5	70	14.5	361	375.5	515	550	290	420	60	19
743760220	e1631 4D 30KW 4P	305	57.5	50	18.5	379	381.5	515	550	290	420	60	19
743760230	e1631 4E 30KW 4P	305	57.5	80	18.5	387	389.5	515	550	290	420	60	19
743760170	e1631 4E 37KW 4P	286/311	60	55	18.5	433	433	605	640	392	510	60	19
743760170	e1631 4E 45KW 4P	286/311	60	55	18.5	433	433	605	640	392	510	60	19
743760360	e1631 5B 11KW 4P	210	32.5	90	14.5	348	375.5	515	550	290	420	60	19
743760360	e1631 5C 11KW 4P	210	32.5	90	14.5	348	375.5	515	550	290	420	60	19
743760360	e1631 5C 15KW 4P	254	32.5	90	14.5	348	375.5	515	550	290	420	60	19
743760300	e1631 5D 18.5KW 4P	241	45.5	100	14.5	375	389.5	515	550	290	420	60	19
743760300	e1631 5D 22KW 4P	279	45.5	100	14.5	375	389.5	515	550	290	420	60	19
743760230	e1631 5D 30KW 4P	305	57.5	80	18.5	387	389.5	515	550	290	420	60	19
743760170	e1631 5D 37KW 4P	286/311	60	55	18.5	433	433	605	640	392	510	60	19
743760180	e1631 5E 37KW 4P	286/311	60	90	18.5	433	433	605	640	392	510	60	19
743760180	e1631 5E 45KW 4P	286/311	60	90	18.5	433	433	605	640	392	510	60	19
743760130	e1631 5E 55KW 4P	349	79	65	24	452	433	605	640	392	510	60	19
743760370	e1631 6B 11KWA 4P	210	32.5	120	14.5	348	375.5	515	550	290	420	60	19
743760370	e1631 6B 11KW 4P	210	32.5	120	14.5	348	375.5	515	550	290	420	60	19
743760370	e1631 6B 15KWA 4P	254	32.5	120	14.5	348	375.5	515	550	290	420	60	19
743760370	e1631 6B 15KW 4P	254	32.5	120	14.5	348	375.5	515	550	290	420	60	19
743760370	e1631 6C 15KW 4P	254	32.5	120	14.5	362	389.5	515	550	290	420	60	19
743760300	e1631 6C 18.5KW 4P	241	45.5	100	14.5	375	389.5	515	550	290	420	60	19
743760300	e1631 6C 22KW 4P	279	45.5	100	14.5	375	389.5	515	550	290	420	60	19
743760230	e1631 6C 30KW 4P	305	57.5	80	18.5	387	389.5	515	550	290	420	60	19
743760230	e1631 6D 30KW 4P	305	57.5	80	18.5	387	389.5	515	550	290	420	60	19
743760170	e1631 6D 37KW 4P	286/311	60	55	18.5	433	433	605	640	392	510	60	19
743760170	e1631 6D 45KW 4P	286/311	60	55	18.5	433	433	605	640	392	510	60	19
743760180	e1631 6E 45KW 4P	286/311	60	90	18.5	433	433	605	640	392	510	60	19
743760130	e1631 6E 55KW 4P	349	79	65	24	452	433	605	640	392	510	60	19
743760320	e1631 8C 18.5KW 4P	241	45.5	175	14.5	375	389.5	515	550	290	420	60	19
743760320	e1631 8C 22KW 4P	279	45.5	175	14.5	375	389.5	515	550	290	420	60	19
743760250	e1631 8C 30KWA 4P	305	57.5	155	18.5	387	389.5	515	550	290	420	60	19
743760250	e1631 8C 30KW 4P	305	57.5	155	18.5	387	389.5	515	550	290	420	60	19
743760190	e1631 8D 37KW 4P	286/311	60	130	18.5	433	433	605	640	392	510	60	19
743760190	e1631 8D 45KW 4P	286/311	60	130	18.5	433	433	605	640	392	510	60	19
743760140	e1631 8D 55KW 4P	349	79	105	24	452	433	605	640	392	510	60	19
743760100	e1631 8D 75KW 4P	368/419	70.5	75	24	474	473.5	655	690	420	560	70	19
743760200	e1631 10D 37KW 4P	286/311	60	175	18.5	433	433	605	640	392	510	60	19
743760200	e1631 10D 45KW 4P	286/311	60	175	18.5	433	433	605	640	392	510	60	19
743760150	e1631 10D 55KW 4P	349	79	150	24	452	433	605	640	392	510	60	19
743760110	e1631 10D 75KW 4P	368/419	70.5	120	24	474	473.5	655	690	420	560	70	19

Technical Accessories

Vapour Pressure

Vapour pressure Ps and P density of watetable

t	T	ps	ρ	t	T	ps	ρ	t	T	ps	ρ
° C	K	bar	kg/dm ³	° C	K	bar	kg/dm ³	° C	K	bar	kg/dm ³
0	273,15	0,00611	0,9998	55	328,15	0,15741	0,9857	120	393,15	1,9854	0,9429
1	274,15	0,00657	0,9999	56	329,15	0,16511	0,9852	122	395,15	2,1145	0,9412
2	275,15	0,00706	0,9999	57	330,15	0,17313	0,9846	124	397,15	2,2504	0,9396
3	276,15	0,00758	0,9999	58	331,15	0,18147	0,9842	126	399,15	2,3933	0,9379
4	277,15	0,00813	1,0000	59	332,15	0,19016	0,9837	128	401,15	2,5435	0,9362
5	278,15	0,00872	1,0000	60	333,15	0,1992	0,9832	130	403,15	2,7013	0,9346
6	279,15	0,00935	1,0000	61	334,15	0,2086	0,9826	132	405,15	2,867	0,9328
7	280,15	0,01001	0,9999	62	335,15	0,2184	0,9821	134	407,15	3,041	0,9311
8	281,15	0,01072	0,9999	63	336,15	0,2286	0,9816	136	409,15	3,223	0,9294
9	282,15	0,01147	0,9998	64	337,15	0,2391	0,9811	138	411,15	3,414	0,9276
10	283,15	0,01227	0,9997	65	338,15	0,2501	0,9805	140	413,15	3,614	0,9258
11	284,15	0,01312	0,9997	66	339,15	0,2615	0,9799	145	418,15	4,155	0,9214
12	285,15	0,01401	0,9996	67	340,15	0,2733	0,9793	155	428,15	5,433	0,9121
13	286,15	0,01497	0,9994	68	341,15	0,2856	0,9788	160	433,15	6,181	0,9073
14	287,15	0,01597	0,9993	69	342,15	0,2984	0,9782	165	438,15	7,008	0,9024
15	288,15	0,01704	0,9992	70	343,15	0,3116	0,9777	170	443,15	7,920	0,8973
16	289,15	0,01817	0,9990	71	344,15	0,3253	0,9770	175	448,15	8,924	0,8921
17	290,15	0,01936	0,9988	72	345,15	0,3396	0,9765	180	453,15	10,027	0,8869
18	291,15	0,02062	0,9987	73	346,15	0,3543	0,9760	185	458,15	11,233	0,8815
19	292,15	0,02196	0,9985	74	347,15	0,3696	0,9753	190	463,15	12,551	0,8760
20	293,15	0,02337	0,9983	75	348,15	0,3855	0,9748	195	468,15	13,987	0,8704
21	294,15	0,02485	0,9981	76	349,15	0,4019	0,9741	200	473,15	15,550	0,8647
22	295,15	0,02642	0,9978	77	350,15	0,4189	0,9735	205	478,15	17,243	0,8588
23	296,15	0,02808	0,9976	78	351,15	0,4365	0,9729	210	483,15	19,077	0,8528
24	297,15	0,02982	0,9974	79	352,15	0,4547	0,9723	215	488,15	21,060	0,8467
25	298,15	0,03166	0,9971	80	353,15	0,4736	0,9716	220	493,15	23,198	0,8403
26	299,15	0,03360	0,9968	81	354,15	0,4931	0,9710	225	498,15	25,501	0,8339
27	300,15	0,03564	0,9966	82	355,15	0,5133	0,9704	230	503,15	27,976	0,8273
28	301,15	0,03778	0,9963	83	356,15	0,5342	0,9697	235	508,15	30,632	0,8205
29	302,15	0,04004	0,9960	84	357,15	0,5557	0,9691	240	513,15	33,478	0,8136
30	303,15	0,04241	0,9957	85	358,15	0,5780	0,9684	245	518,15	36,523	0,8065
31	304,15	0,04491	0,9954	86	359,15	0,6011	0,9678	250	523,15	39,776	0,7992
32	305,15	0,04753	0,9951	87	360,15	0,6249	0,9671	255	528,15	43,246	0,7916
33	306,15	0,05029	0,9947	88	361,15	0,6495	0,9665	260	533,15	46,943	0,7839
34	307,15	0,05318	0,9944	89	362,15	0,6749	0,9658	265	538,15	50,877	0,7759
35	308,15	0,05622	0,9940	90	363,15	0,7011	0,9652	270	543,15	55,058	0,7678
36	309,15	0,05940	0,9937	91	364,15	0,7281	0,9644	275	548,15	59,496	0,7593
37	310,15	0,06274	0,9933	92	365,15	0,7561	0,9638	280	553,15	64,202	0,7505
38	311,15	0,06624	0,9930	93	366,15	0,7849	0,9630	285	558,15	69,186	0,7415
39	312,15	0,06991	0,9927	94	367,15	0,8146	0,9624	290	563,15	74,461	0,7321
40	313,15	0,07375	0,9923	95	368,15	0,8453	0,9616	295	568,15	80,037	0,7223
41	314,15	0,07777	0,9919	96	369,15	0,8769	0,9610	300	573,15	85,927	0,7122
42	315,15	0,08198	0,9915	97	370,15	0,9094	0,9602	305	578,15	92,144	0,7017
43	316,15	0,08639	0,9911	98	371,15	0,9430	0,9596	310	583,15	98,70	0,6906
44	317,15	0,09100	0,9907	99	372,15	0,9776	0,9586	315	588,15	105,61	0,6791
45	318,15	0,09582	0,9902	100	373,15	1,0133	0,9581	320	593,15	112,89	0,6669
46	319,15	0,10086	0,9898	102	375,15	1,0878	0,9567	325	598,15	120,56	0,6541
47	320,15	0,10612	0,9894	104	377,15	1,1668	0,9552	330	603,15	128,63	0,6404
48	321,15	0,11162	0,9889	106	379,15	1,2504	0,9537	340	613,15	146,05	0,6102
49	322,15	0,11736	0,9884	108	381,15	1,3390	0,9522	350	623,15	165,35	0,5743
50	323,15	0,12335	0,9880	110	383,15	1,4327	0,9507	360	633,15	186,75	0,5275
51	324,15	0,12961	0,9876	112	385,15	1,5316	0,9491	370	643,15	210,54	0,4518
52	325,15	0,13613	0,9871	114	387,15	1,6362	0,9476	374,15	647,30	221,20	0,3154
53	326,15	0,14293	0,9862	116	389,15	1,7465	0,9460				
54	327,15	0,15002	0,9862	118	391,15	1,8628	0,9445				

Technical Appendix

Table of flow resistomce in 100m of straight cast iron pipelim
(Hazen-Williams Formula C =100)

Flow rate		Nominal Diameter in mm and inch																										
m ³ /h	l/min		15	20	25	32	40	50	65	80	100	125	150	175	200	250	300	350	400									
			1/2"	3/4"	1"	1 1/4"	1 1/2"	2	2 1/2"	3"	4"	5"	6"	7"	8"	10"	12"	14"	16"									
0,6	10	v	0,94	0,53	0,34	0,21	0,13			The hr values must be multiplied by: 0,71 for galvanized or painted steel pipes 0,54 for stainless steel or copper pipes 0,47 for PVC or PE pipes																		
		hr	16	3,94	1,33	0,40	0,13																					
0,9	15	v	1,42	0,80	0,51	0,31	0,20																					
		hr	33,9	8,35	2,82	0,85	0,29																					
1,2	20	v	1,89	1,06	0,68	0,41	0,27	0,17																				
		hr	57,7	14,21	4,79	1,44	0,49	0,18																				
1,5	25	v	2,36	1,33	0,85	0,52	0,33	0,21																				
		hr	87,2	21,5	7,24	2,18	0,73	0,25																				
1,8	30	v	2,83	1,59	1,02	0,62	0,40	0,25																				
		hr	122	30,1	10,1	3,05	1,03	0,35																				
2,1	35	v	3,30	1,88	1,19	0,73	0,46	0,30																				
		hr	162	40,0	13,5	4,06	1,37	0,46																				
2,4	40	v	2,12	1,36	0,83	0,53	0,34	0,20																				
		hr	51,2	17,3	5,19	1,75	0,59	0,16																				
3	50	v	2,65	1,70	1,04	0,66	0,42	0,25																				
		hr	77,4	26,1	7,85	2,65	0,89	0,25																				
3,6	60	v	3,18	2,04	1,24	0,80	0,51	0,30																				
		hr	108	36,6	11,0	3,71	1,25	0,35																				
4,2	70	v	3,72	2,38	1,45	0,93	0,59	0,35																				
		hr	144	48,7	14,6	4,93	1,66	0,46																				
4,8	80	v	4,25	2,72	1,66	1,06	0,68	0,40																				
		hr	185	62,3	18,7	6,32	2,13	0,59																				
5,4	90	v			3,06	1,87	1,19	0,76	0,45	0,30																		
		hr			77,5	23,3	7,85	2,65	0,74	0,27																		
6	100	v			3,40	2,07	1,33	0,85	0,50	0,33																		
		hr			94,1	28,3	9,54	3,22	0,90	0,33																		
7,5	125	v			4,25	2,59	1,66	1,06	0,63	0,41																		
		hr			142	42,8	14,4	4,86	1,36	0,49																		
9	150	v				3,11	1,99	1,27	0,75	0,50	0,32																	
		hr				59,9	20,2	6,82	1,90	0,69	0,23																	
10,5	175	v				3,63	2,32	1,49	0,88	0,58	0,37																	
		hr				79,7	26,9	9,07	2,53	0,92	0,31																	
12	200	v				4,15	2,65	1,70	1,01	0,66	0,42																	
		hr				102	34,4	11,6	3,23	1,18	0,40																	
15	250	v				5,18	3,32	2,12	1,26	0,83	0,53	0,34																
		hr				154	52,0	17,5	4,89	1,78	0,60	0,20																
18	300	v					3,98	2,55	1,51	1,00	0,64	0,41																
		hr					72,8	24,6	6,85	2,49	0,84	0,28																
24	400	v					5,31	3,40	2,01	1,33	0,85	0,54	0,38															
		hr					124	41,8	11,66	4,24	1,43	0,48	0,20															
30	500	v					6,63	4,25	2,51	1,66	1,06	0,68	0,47															
		hr					187	63,2	17,6	6,41	2,16	0,73	0,30															
36	600	v						5,10	3,02	1,99	1,27	0,82	0,57	0,42														
		hr						88,6	24,7	8,98	3,03	1,02	0,42	0,20														
42	700	v						5,94	3,52	2,32	1,49	0,95	0,66	0,49														
		hr						118	32,8	11,9	4,03	1,36	0,56	0,26														
48	800	v						6,79	4,02	2,65	1,70	1,09	0,75	0,55														
		hr						151	42,0	15,3	5,16	1,74	0,72	0,34														
54	900	v						7,64	4,52	2,99	1,91	1,22	0,85	0,62														
		hr						188	52,3	19,0	6,41	2,16	0,89	0,42														
60	1000	v							5,03	3,32	2,12	1,36	0,94	0,69	0,53													
		hr							63,5	23,1	7,79	2,63	1,08	0,51	0,27													
75	1250	v							6,28	4,15	2,65	1,70	1,18	0,87	0,66													
		hr							96,0	34,9	11,8	3,97	1,63	0,77	0,40													
90	1500	v							7,54	4,98	3,18	2,04	1,42	1,04	0,80													
		hr							134	48,9	16,5	5,57	2,29	1,08	0,56													
105	1750	v							8,79	5,81	3,72	2,38	1,65	1,21	0,93													
		hr							179	85,1	21,9	7,40	3,05	1,44	0,75													
120	2000	v								6,63	4,25	2,72	1,89	1,39	1,08	0,88												
		hr								83,3	28,1	9,48	3,90	1,84	0,96	0,32												
150	2500	v								8,29	5,31	3,40	2,36	1,73	1,33	0,85												
		hr								126	42,5	14,3	5,89	2,78	1,45	0,49												
180	3000	v									6,37	4,08	2,83	2,08	1,59	1,02	0,71											
		hr									59,5	20,1	8,26	3,90	2,03	0,69	0,28											
210	3500	v									7,43	4,76	3,30	2,43	1,86	1,19	0,83											
		hr									79,1	26,7	11,0	5,18	2,71	0,91	0,38											
240	4000	v									8,49	5,44	3,77	2,77	2,12	1,36	0,94											
		hr									101	34,2	14,1	6,64	3,46	1,17	0,48											
300	5000	v										6,79	4,72	3,47	2,65	1,70	1,18											
		hr										51,6	21,2	10,0	5,23	1,77	0,73											
360	6000	v										8,15	5,66	4,16	3,18	2,04	1,42											
		hr										72,3	29,8	14,1	7,33	2,47	1,02											
420	7000	v											6,61	4,85	3,72	2,38	1,65	1,21										
		hr											39,6	18,7	9,75	3,29	1,35	0,64										
480	8000	v											7,55	5,55	4,25	2,72	1,89	1,39										
		hr											50,7	23,9	12,49	4,21	1,73	0,82										
540	9000	v											8,49	6,24	4,78	3,06	2,12	1,56	1,19									
		hr											63,0	29,8	15,5	5,24	2,16	1,02	0,53									
600	10000	v												6,93	5,31	3,40	2,36	1,73	1,33									
		hr												36,2	18,9	6,36	2,62	1,24	0,65									

G-at-pot-en_a_th

Technical Appendix

FLOW RESISTANCE
TABLE OF FLOW RESISTANCE IN BENDS, VALVES AND
GATES

The flow resistance is calculated using the equivalent pipeline length method according to the table below:

ACCESSORY TYPE	DN											
	25	32	40	50	65	80	100	125	150	200	250	300
	Equivalent pipeline length (m)											
45° bend	0,2	0,2	0,4	0,4	0,6	0,6	0,9	1,1	1,5	1,9	2,4	2,8
90° bend	0,4	0,6	0,9	1,1	1,3	1,5	2,1	2,6	3,0	3,9	4,7	5,8
90° smooth bend	0,4	0,4	0,4	0,6	0,9	1,1	1,3	1,7	1,9	2,8	3,4	3,9
Union tee or cross	1,1	1,3	1,7	2,1	2,6	3,2	4,3	5,3	6,4	7,5	10,7	12,8
Gate	-	-	-	0,2	0,2	0,2	0,4	0,4	0,6	0,9	1,1	1,3
Non return valve	1,1	1,5	1,9	2,4	3,0	3,4	4,7	5,9	7,4	9,6	11,8	13,9

G-a-pcv-en_a_th

The table is valid for the Hazen Williams coefficient C=100 (cast iron pipework);
for steel pipework, multiply the values by 1,41;
for stainless steel, copper and coated cast iron pipework, multiply the values by 1,85;
When the **equivalent pipeline length** has been determined, the flow resistance is obtained from the table of flow resistance.
The values given are guideline values which are bound to vary slightly according to the model, especially for gate valves and non-return valves, for which it is a good idea to check the values supplied by manufacturers.

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