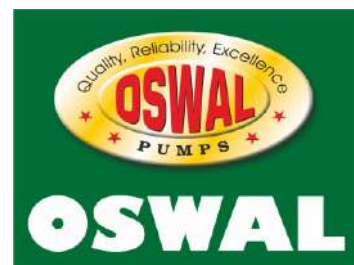


## ▶ PRODUCT CATALOGUE

Stainless Steel  
Submersible Pumps  
Energy Efficient Range...



— PUMPS & MOTORS —  
Solar | Domestic | Agriculture | Industrial  
*True Partner!*

50Hz  
2025



## Company Profile

Oswal Pumps Limited started in year 2000 has become now India's first unique integrated plant with world class manufacturing facility in its own kind, backed by seasoned engineers and technicians.

Quality and Service value for customer money are the guiding principles at **OSWAL**. No doubt that **OSWAL** is one of the fastest growing company in the field of Submersible Pumps, Monoblock Pumps and Electric Motors, Pressure Pumps, Electric Panel, Submersible Winding Wires, Cables & uPVC Pipes covering Domestic, Agriculture & Industrial range.

### *Infrastructure :*

The company has its own plant covering an area of 45000 sq. mtr. at the prestigious location on National Highway -1 near Kutail, Karnal well equipped with modern machineries for manufacturing of pumps and motors.

Oswal Pumps Limited is an ISO-9001 : 2015 certified company and products are ISI & 5 Star BEE marked. **OSWAL** is one of the leading and largest manufacturer of Stainless Steel Pumps and Submersible Motors in India.

OSWAL have their own in-house plant for:-

- a) Stamping unit.
- b) Aluminum die casting for rotor.
- c) Aluminum die casting for motor body & parts.
- d) Poly wrapped and PVC winding wire for submersible motor.
- e) Thrust Bearing.
- f) Injection plastic moldings.
- g) Stainless steel investment casting.
- h) Stainless steel pipe.
- i) Corrugated box facility.
- j) Cast iron casting plant.
- k) Super enameled copper wire plant.

**OSWAL** have got prestigious Awards from:-

National Udyog Rattan Award –on dt. 15-09-2005 from Indian Organization for Business Research Association, New Delhi for individual achievement of National Development .

Bhartiya Udyog Rattan Award – on dt. 01-12-2005 from Indian Economic Development of Research Association, New Delhi for individual achievement of National Development.

OSWAL is the first company out of thousand participants , who have got the above awards for submersible pumpsets.

All the products more than 1000 varieties are offered to the market through a vide distributor network of more than 1170 Distributors / Agents all over India to ensure that for every **OSWAL** pump in use, there is a sales and service outlet for wide range of Agriculture, Industries and domestic needs.

**Export : Exporting to 20 countries at present and heading to mark presence in 50 countries.**

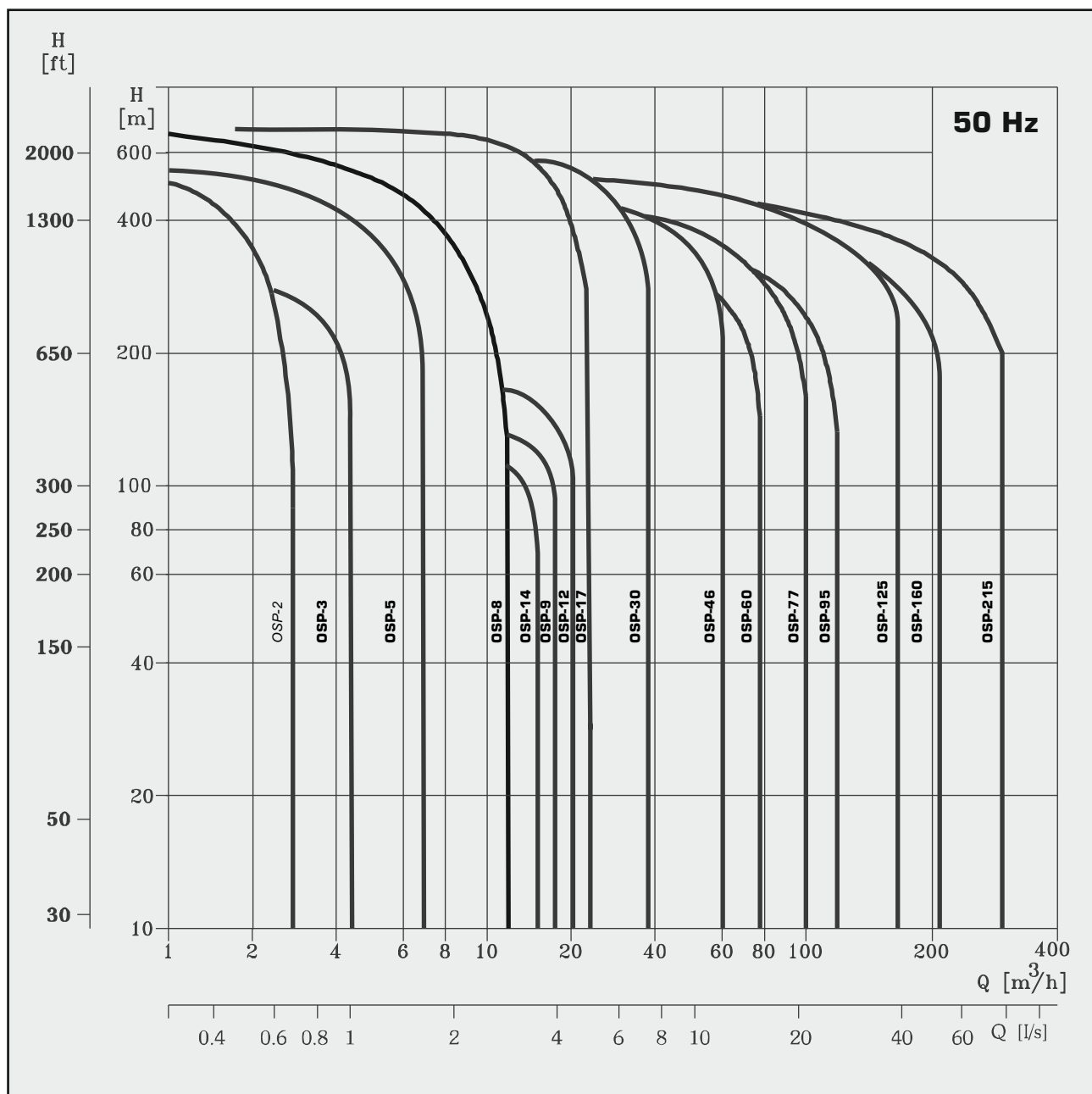
Oswal Pumps Limited assure you to provide quality products and best services always.



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## Performance Range (Family Curve)



## General Data

**OSWAL** submersible pumps & motors are well known for its quality, Reliability & excellent for all type of service purpose. **OSWAL** submersible pumps & motors are manufactured under supervision of highly qualified technical team with a stage wise rigid inspection procedure under TQM concepts.

**OSWAL** team are well known for their excellent services after sales. The company has also obtained BIS certificate for ISI mark and through continuous process improvements & streamlining the quality system at par with the international standards has now acquired ISO:9001:2000 certifications.

Application of Bore well submersible pumps are Hospitals, Water circulation systems, Water supply systems of Government, Irrigation, Farms, Drip & sprinkler irrigation, Gardening, Nurseries, Domestic water supply, Multi-storeyed Building & Industrial water supply systems & Hotels.

**OSWAL** has successfully developed its energy efficient and cost efficient pump manufacturing of fully fabricated S.S.-304 with a quality level as per international standard. The company has offering quality product at a lowest price. the company has exporting pump sets to developed countries and the same quality is supply in domestic market.

**OSWAL** Submersible Pumpsets of modular design suitable for under-water operation for universal fit, all mounting dimensions of pumps and motors are in accordance with NEMA standards. **OSWAL** submersible pumpset are of completely S.S.-304 construction with fabricated technology, light weight easy for handling, life longevity, pump shaft using Duplex steel for high wear resistance.

### GENERAL DATA

- \* Duty Disch : 150 to 3600 LPM.
- \* Pumped liquid : Clean water free from solid, Chemically Natural & Close the characteristics of water.
- \* Max. Ambient temperature : 50°C.
- \* Max. Quantity of sand : 50gm/m<sup>3</sup>.
- \* Minimum Suction head required : 1.5 meter.
- \* Starts/hours : max. 30 at Regular intervals.

#### PUMP MODEL TYPE KEY

- EXAMPLE OSP 95 A B
- \* Model type \_\_\_\_\_
  - \* Nominal flow rate \*16.67 lpm \_\_\_\_\_
  - \* First Impeller with Reduced Dia.(A,B,C) \_\_\_\_\_
  - \* Second Impeller with Reduced Dia.(A,B,C) \_\_\_\_\_

| TYPE                    |            | OSP 3 | OSP 5 | OSP 8 | OSP 14 | OSP 9 | OSP 12 | OSP 17 | OSP 30 | OSP 46 | OSP 60 |
|-------------------------|------------|-------|-------|-------|--------|-------|--------|--------|--------|--------|--------|
| Steel : S.S.-304        |            | +     | +     | +     | +      | +     | +      | +      | +      | +      | +      |
| Connection: Rp (Inches) | BSP Thread | 1½"   | 1½"   | 2"    | 2"     | 2"    | 2"     | 2.5"   | 3"     | 4"     | 4"     |
|                         | NPT Thread | 1½"   | 1½"   | 2"    | 2"     | 2"    | 2"     | 3"     | 3"     | 4"     | 4"     |

| OSP 77 | OSP 95 | OSP 125 | OSP 160 | OSP 215 |
|--------|--------|---------|---------|---------|
| +      | +      | +       | +       | +       |
| 5"     | 5"     | 6"      | 6"      | 6"      |
| 5"     | 5"     | 6"      | 6"      | 6"      |

### PUMPED LIQUIDS

- \* Clean, thin, non-aggressive liquids without solid particles.

### OPERATING CONDITIONS

- \* Flow Range (min. to max.) - 6-240 M<sup>3</sup>/h
- \* Head, H : Maximum 670 m.

### Maximum Liquid Temperature

| Motor | Installation                 |          |
|-------|------------------------------|----------|
|       | Flow velocity-<br>past motor | Vertical |
| 6"    | 0.15 m/s                     | 40°C     |

Operating pressure: Maximum 67 bar.

### CURVE CONDITIONS

- \* The conditions below apply to the curves shown on the following pages :

#### CURVES

- \* **Q/H** : The curves are inclusive of losses such as NRV losses at the actual speed. Operation without non-return valve will increase the actual head at nominal performance by 0.5 to 1.0 m.
- \* **Power Curve** : (BPKW) For Particular Stage shows pump power.
- \* **Efficiency Curve** : Efficiency shows pump stage efficiency.



## Features And Benefits

### A Wide Pump Range

- \* We offers submersible pumps with energy-efficient duty points ranging from 2 to 160 m<sup>3</sup>/h. The pump range consist of many pump sizes (Stages) to match any duty point.

### High Pumps Efficiency

- \* Often pump efficiency is a neglected factor compared to the price variations are without importance of pump and motor efficiencies.

### Example

- \* Pumping water-30m<sup>3</sup>/h with a head of 60 meter.
- \* When choosen stainless steel energy efficient pump, be saved (than other pumps) 4unit (kwh) per hour.
- \* It save Rs. 4,60,000 in 10 year for 8 hours / day running)

### Applications

- \* We offers a complete range of pumps and motors with as a standard are made completely as stainless steel - 304. This provides for good wear resistance and a reduced risk of corrosion when pumping ordinary cold water with a minor content of chloride.

### Low Installation Cost

- \* These pumps have low weight facilitating the handling of pumps and resulting in low equipment costs and reduced installation and service time. In addition pumps will be as new after service due to the high wear resistance of stainless steel.

### Bearing with Sand Channels

- \* All bearing are water-Lubricated and have a octagone shape enabling sand particles.

### Inlet Strainer

- \* The inlet strainer prevents particles over a certain size from entering the pump.

### Non-Return Valve

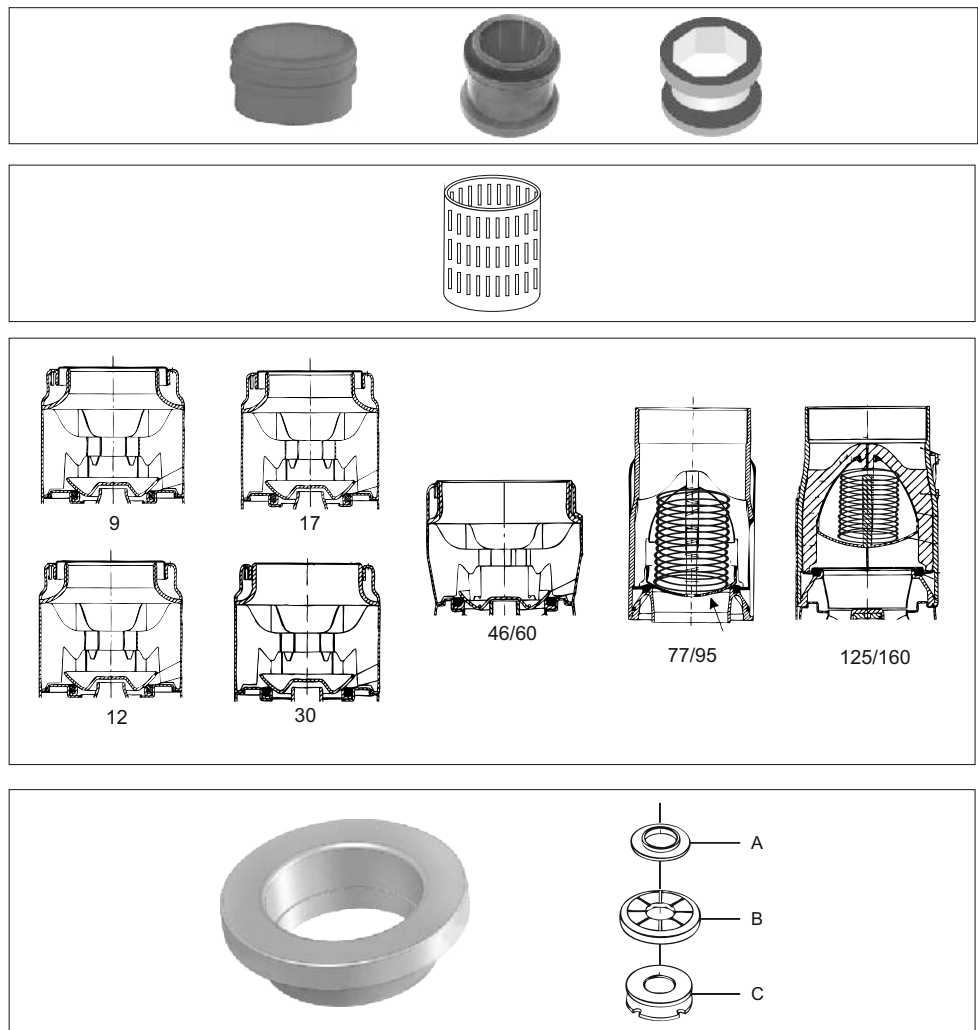
- \* All pumps are equipped with a non-return valve in the valve casing preventing back flow in connection with pump stoppage.
- \* Furthermore, the short closing time of the non-return valve means that the risk of destructive water hammer is reduced to the minimum.
- \* The valve casing is designed for optimum hydraulic properties, to minimize the pressure loss across the valve and thus contributes to the high efficiency of the pump.

### Stop Ring

- \* The stop ring prevents damage to the pump during transport and in case of up-thrust in connection with start-up.
- \* The stop ring, which is designed as a thrust bearing limits axial movements of the pump shaft.
- \* Example : OSP - 30

### GENERAL

- \* Curve tolerance according to ISO 9906, Annex A&B.
- \* The performance curves show pump performance at actual speed of standard motor range.
- \* The speed of the motors is approximately:  
 $N=2850 \text{ min}^{-1}$
- \* The measurements were made with airless water at a temperature of 20°C. The curves apply to a kinematic viscosity of 1mm<sup>2</sup>/s. When pumping liquids with a density higher than that a water, motors with correspondingly higher outputs must be used.
- \* The bold curves indicate the performance range.



## Features And Benefits

### Material & Design for wear & corrosion resistance

Stainless steel submersible pumps can run very well in cold and clear water however Ground water abrasive like sand which can quickly wear out both the pumps and motor. OSWAL has designed & developed the OSP series pumps which are made completely out of High grade stainless steel and rubber of excellent quality to ensure that the sand abrasive. Do not wear out the pump.

### High pump efficiency & Minimum cost :-

The initial cost of purchasing a pump is a fraction of the total cost of owning & operating a pump over its entire life span. High pump efficiency and minimum cost is thinking about the total cost of ownership during the entire life span of the pumps .it means that you should know and ensure that energy cost and maintenance cost which contribute 95% of the total cost of ownership is brought down as much as possible . it also means the benefit of business relationship with **OSWAL** pumps like assistance in making the correct decision about the performance over the life span of the pumps.

**OSWAL** OSP series pump can help you , bring down the operating cost by offering higher pumping efficiency, due to excellent hydraulic design and using high strength stainless steel material which offer high wear resistance. Which significantly reduces energy consumption . **OSWAL** can also help you by providing during selection and installation of the pump.

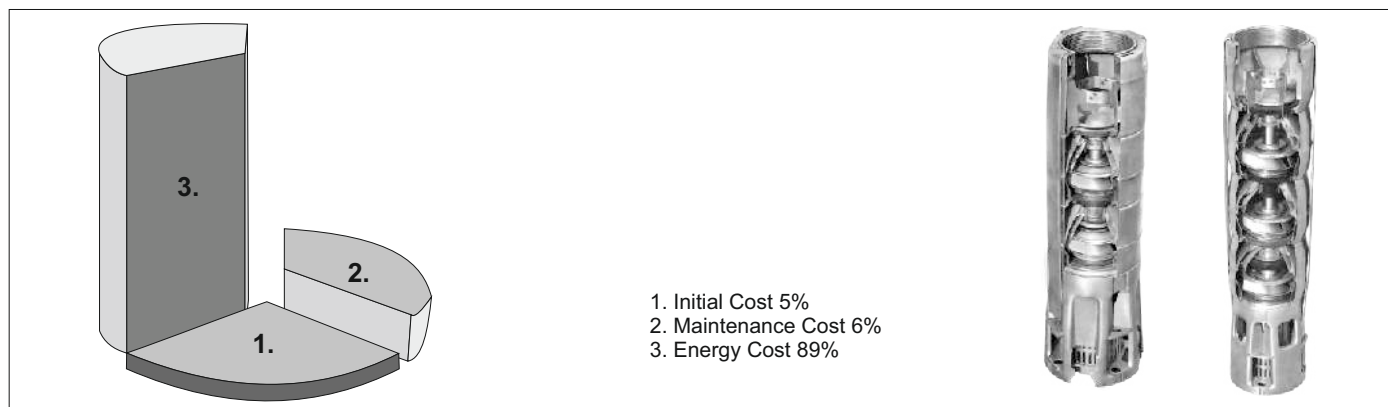
### Energy efficient pumps :-

Calculate the energy cost in KWH/ M<sup>3</sup> or KWH / gallon which includes losses in motor ,pump, cable etc. **OSWAL** offer OSP series pumps with highest efficiency in the industry.

Let us compare energy cost between ordinary pump XYZ against the OSP series pump manufactured by OSWAL pumps Ltd.

|                                    | XYZ Company | OSWAL      |
|------------------------------------|-------------|------------|
| Model                              | ABC         | OSP - 60   |
| HP                                 | 40          | 40         |
| KW                                 | 30          | 30         |
| Stage                              | 17          | 17         |
| Head (Meter)                       | 131         | 131        |
| Flow (M <sup>3</sup> / hr.)        | 60          | 60         |
| Cost (in US dollar)                | 700         | 1160       |
| Cost (in INRs.)                    | 30,000      | 50,000     |
| Motor eff.                         | 78 %        | 84 %       |
| Pump eff.                          | 60 %        | 75 %       |
| Overall eff.                       | 46.8 %      | 63 %       |
| Input power                        | 45.74 KWH   | 34 KWH     |
| KWH / Day<br>(for 8hrs. operation) | 365.9 KWH   | 272 KWH    |
| KWH / Year                         | 133553 KWH  | 99280 KWH  |
| KWH / 10Year                       | 1335530 KWH | 992800 KWH |
| Energy Cost (in US dollar)         | 166941      | 124100     |
| EnergyCost (in INRs.)              | 6677650     | 4964000    |

Saving in energy cost alone will be US dollar 42841 & INRs.1713650 in the 10 years. Thus if you purchase the OSWAL OSP-60 pump then the payback period will be 105 days (less than 4 month).



**OSP-2, OSP-3, OSP-5, OSP-8 & OSP-14**

# 4” *Submersible Pump*



## 4" Submersible Pump General Data

### Construction

Submersible motor and pumps for bore wells of 4" ( 100 mm )

- All sizes of pumps according to the NEMA standard

OSP series pumps are completely made out of AISI 304 stainless steel material.

Radial flow Model : OSP-2 , OSP-3,OSP-5, OSP-8 , OSP-14

### Application

For water supply

For irrigation

For civil and industrial applications.

For fire fighting application

### General Data

Head range up to 300 meters

- Flow range up to 14 M<sup>3</sup>/ hr.

### Operating Condition

Maximum Ambient temperature : 50°C

Maximum quantity of sand 50 gm / m<sup>3</sup>

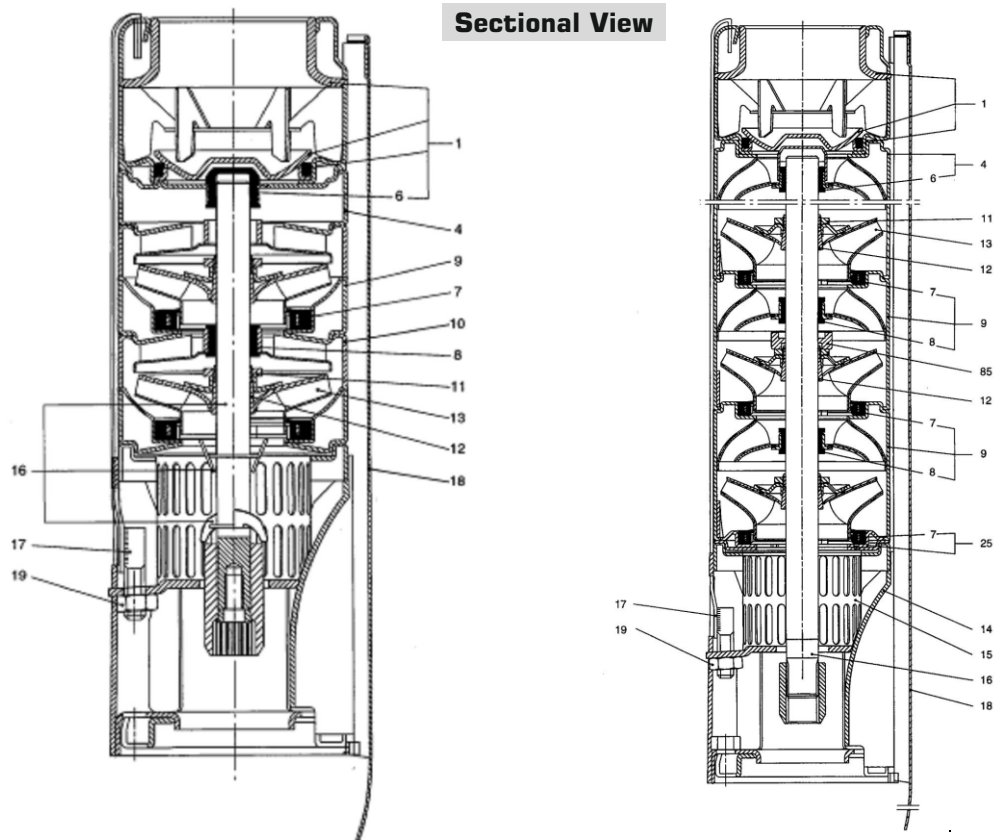
- Minimum suction head required : 1.5 meter.

Max. start per hour 30 at regular intervals.

Direction of rotation : clockwise as seen from the pump coupling side.

Also available in NPT connection.

## Material of Construction



| MATERIAL SPECIFICATION OF<br>OSP -2 , OSP-3, OSP-5,OSP-8,OSP -14 |                    |                |
|------------------------------------------------------------------|--------------------|----------------|
| S.NO.                                                            | COMPONENTS         | MATERIAL GRADE |
| 1                                                                | Valve casing       | SS-304         |
| 4                                                                | Top diffuser cup   | SS-304         |
| 6                                                                | Top bearing bush   | NBR            |
| 7                                                                | Neckring           | NBR + SS-304   |
| 8                                                                | Stage bearing bush | NBR            |
| 9                                                                | Diffuser cup       | SS-304         |
| 10                                                               | 1st stage cup      | SS-304         |
| 11                                                               | Split cone nut     | SS-304         |
| 12                                                               | Split cone         | SS-304         |
| 13                                                               | Impeller           | SS-304         |
| 14                                                               | Suc.case           | SS-304         |
| 15                                                               | Strainer           | SS-304         |
| 16                                                               | Pump Shaft         | SS-431         |
| 17                                                               | Strap              | SS-304         |
| 18                                                               | Cable guard        | SS-304         |
| 19                                                               | Nut                | SS-304         |
| 19a                                                              | Nut                | SS-304         |

## Performance Chart

**OSP-2**

| MODEL               | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge               |     |     |     |     |     |     |
|---------------------|------|------|-------|---------------|--------------|-------------------------|-----|-----|-----|-----|-----|-----|
|                     |      |      |       |               |              | M <sup>3</sup> /H (LPM) | 0   | 1   | 1.4 | 2   | 2.4 | 2.7 |
| OSP-2/6(P4)50(4X4)  | 0.37 | 0.5  | 6     | V-4           | 1¼"          | HEAD IN METERS          | 0   | 17  | 23  | 33  | 40  | 45  |
| OSP-2/9(P4)50(4X4)  | 0.37 | 0.5  | 9     | V-4           | 1¼"          |                         | 35  | 31  | 29  | 23  | 14  | 8   |
| OSP-2/13(P4)50(4X4) | 0.55 | 0.75 | 13    | V-4           | 1¼"          |                         | 52  | 46  | 43  | 35  | 22  | 12  |
| OSP-2/18(P4)50(4X4) | 0.75 | 1    | 18    | V-4           | 1¼"          |                         | 75  | 67  | 62  | 51  | 31  | 17  |
| OSP-2/23(P4)50(4X4) | 1.1  | 1.5  | 23    | V-4           | 1¼"          |                         | 104 | 93  | 86  | 70  | 43  | 23  |
| OSP-2/28(P4)50(4X4) | 1.5  | 2    | 28    | V-4           | 1¼"          |                         | 133 | 118 | 109 | 90  | 55  | 30  |
| OSP-2/33(P4)50(4X4) | 1.5  | 2    | 33    | V-4           | 1¼"          |                         | 162 | 144 | 133 | 109 | 67  | 36  |
| OSP-2/40(P4)50(4X4) | 2.2  | 3    | 40    | V-4           | 1¼"          |                         | 191 | 170 | 157 | 129 | 79  | 43  |
| OSP-2/48(P4)50(4X4) | 2.2  | 3    | 48    | V-4           | 1¼"          |                         | 232 | 206 | 190 | 156 | 96  | 52  |
| OSP-2/55(P4)50(4X4) | 3    | 4    | 55    | V-4           | 1¼"          |                         | 278 | 247 | 228 | 187 | 115 | 62  |
| OSP-2/65(P4)50(4X4) | 3    | 4    | 65    | V-4           | 1¼"          |                         | 319 | 283 | 261 | 215 | 132 | 72  |
| OSP-2/75(P4)50(4X4) | 3.7  | 5    | 75    | V-4           | 1¼"          |                         | 377 | 335 | 309 | 254 | 156 | 85  |
| OSP-2/90(P4)50(4X4) | 4.5  | 6    | 90    | V-4           | 1¼"          |                         | 435 | 386 | 356 | 293 | 180 | 98  |
| OSP-2/90(P4)50(4X4) | 4.5  | 6    | 90    | V-4           | 1¼"          |                         | 522 | 464 | 428 | 351 | 216 | 117 |

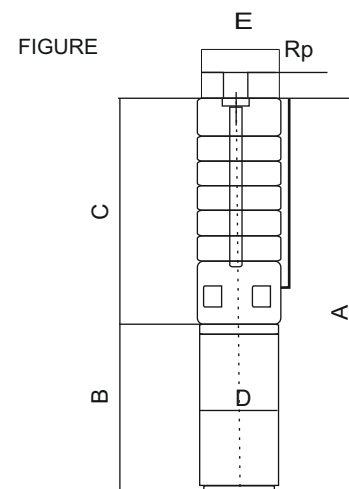
### Dimension & weights of Pump

## Technical Data

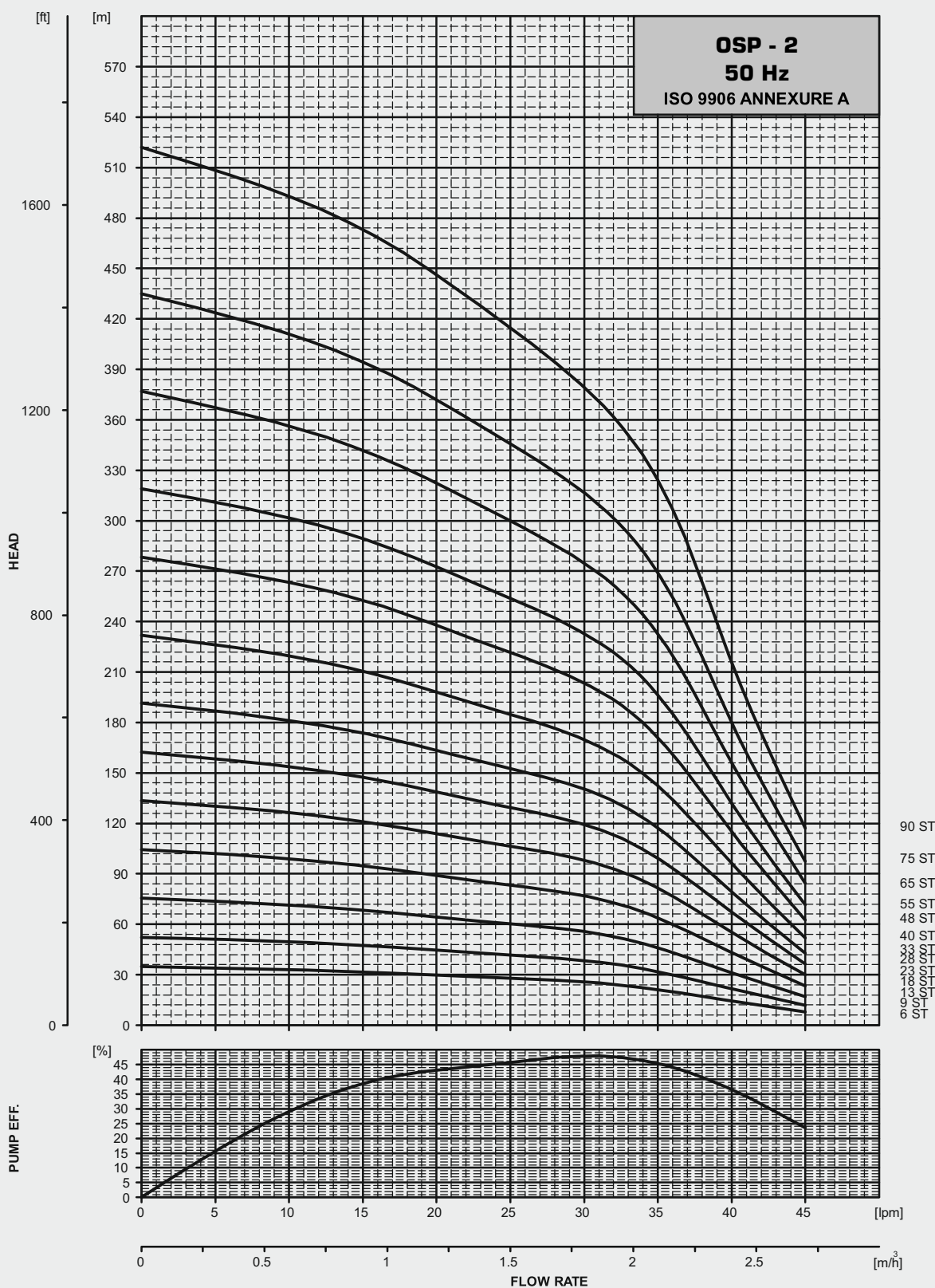
**OSP-2**

| Pump Model           | STAGE | MOTOR         |              | PUMP     |     |           | MOTOR |
|----------------------|-------|---------------|--------------|----------|-----|-----------|-------|
|                      |       | JOINING MOTOR | POWER ( KW ) | Length C | E*  | Weight Kg |       |
| OSP-2/6(P4)50(4X4)   | 6     | V-4           | 0.37         | 297      | 101 | 3.12      | 97    |
| OSP-2/9(P4)50(4X4)   | 9     | V-4           | 0.37         | 369      | 101 | 3.88      | 97    |
| OSP-2/13(P4)50(4X4)  | 13    | V-4           | 0.55         | 465      | 101 | 4.90      | 97    |
| OSP-2/18(P4)50(4X4)  | 18    | V-4           | 0.75         | 585      | 101 | 6.17      | 97    |
| OSP-2/23(P4)50(4X4)  | 23    | V-4           | 1.1          | 705      | 101 | 7.44      | 97    |
| OSP-2/28(P4)50(4X4)  | 28    | V-4           | 1.5          | 825      | 101 | 8.72      | 97    |
| OSP-2/33(P4)50(4X4)  | 33    | V-4           | 1.5          | 992      | 101 | 11.04     | 97    |
| OSP-2/40(P4)50(4X4)  | 40    | V-4           | 2.2          | 1160     | 101 | 13.21     | 97    |
| OSP-2/48(P4)50(4X4)  | 48    | V-4           | 2.2          | 1352     | 101 | 15.25     | 97    |
| OSP-2/55(P4)50(4X4)  | 55    | V-4           | 3            | 1520     | 101 | 17.43     | 97    |
| OSP-2/65(P4)50(4X4)  | 65    | V-4           | 3            | 1760     | 101 | 19.98     | 97    |
| OSP-2/75(P4)50(4X4)  | 75    | V-4           | 3.7          | 2005     | 101 | 24.17     | 97    |
| OSP-2/90(P4)50 (4X4) | 90    | V-4           | 4.5          | 2365     | 101 | 26.14     | 97    |

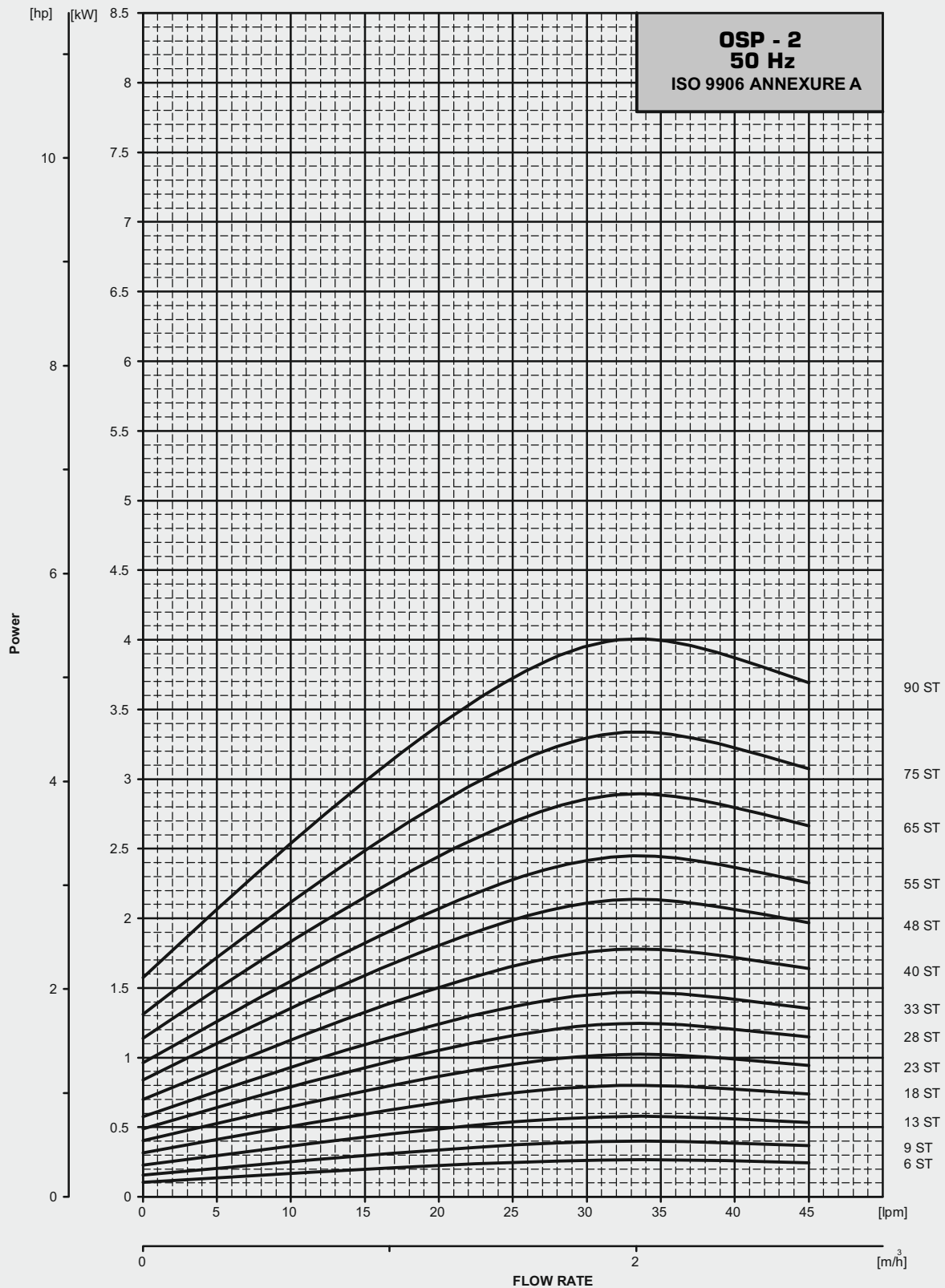
\* MAX.DIA OF PUMP WITH ONE MOTOR CABLE



## Performance Curves



## Power Curves



## Performance Chart

**OSP-3**

| MODEL               | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge               |     |     |     |     |     |     |
|---------------------|------|------|-------|---------------|--------------|-------------------------|-----|-----|-----|-----|-----|-----|
|                     |      |      |       |               |              | M <sup>3</sup> /H (LPM) | 0   | 1.8 | 2.4 | 3   | 3.6 | 4   |
|                     |      |      |       |               |              |                         | 0   | 30  | 40  | 50  | 60  | 67  |
| OSP-3/6(P4)50(4X4)  | 0.37 | 0.5  | 6     | V-4           | 1½"          | HEAD IN METERS          | 36  | 32  | 30  | 26  | 20  | 16  |
| OSP-3/9(P4)50(4X4)  | 0.55 | 0.75 | 9     | V-4           | 1½"          |                         | 54  | 49  | 45  | 39  | 31  | 23  |
| OSP-3/12(P4)50(4X4) | 0.75 | 1    | 12    | V-4           | 1½"          |                         | 72  | 65  | 60  | 52  | 41  | 31  |
| OSP-3/15(P4)50(4X4) | 1.1  | 1.5  | 15    | V-4           | 1½"          |                         | 90  | 81  | 75  | 65  | 51  | 39  |
| OSP-3/18(P4)50(4X4) | 1.1  | 1.5  | 18    | V-4           | 1½"          |                         | 108 | 97  | 90  | 78  | 61  | 47  |
| OSP-3/22(P4)50(4X4) | 1.5  | 2    | 22    | V-4           | 1½"          |                         | 132 | 119 | 110 | 96  | 75  | 57  |
| OSP-3/25(P4)50(4X4) | 1.5  | 2    | 25    | V-4           | 1½"          |                         | 150 | 135 | 125 | 109 | 85  | 65  |
| OSP-3/29(P4)50(4X4) | 2.2  | 3    | 29    | V-4           | 1½"          |                         | 174 | 157 | 145 | 126 | 99  | 75  |
| OSP-3/33(P4)50(4X4) | 2.2  | 3    | 33    | V-4           | 1½"          |                         | 198 | 178 | 165 | 144 | 112 | 86  |
| OSP-3/39(P4)50(4X4) | 3    | 4    | 39    | V-4           | 1½"          |                         | 234 | 211 | 195 | 170 | 133 | 101 |
| OSP-3/45(P4)50(4X4) | 3    | 4    | 45    | V-4           | 1½"          |                         | 270 | 243 | 225 | 196 | 153 | 117 |
| OSP-3/52(P4)50(4X4) | 3.7  | 5    | 52    | V-4           | 1½"          |                         | 312 | 281 | 260 | 226 | 177 | 135 |
| OSP-3/60(P4)50(4X4) | 4.5  | 6    | 60    | V-4           | 1½"          |                         | 360 | 324 | 300 | 261 | 204 | 156 |

### Dimension & weights of Pump

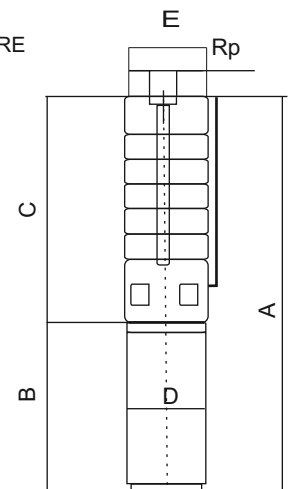
## Technical Data

**OSP-3**

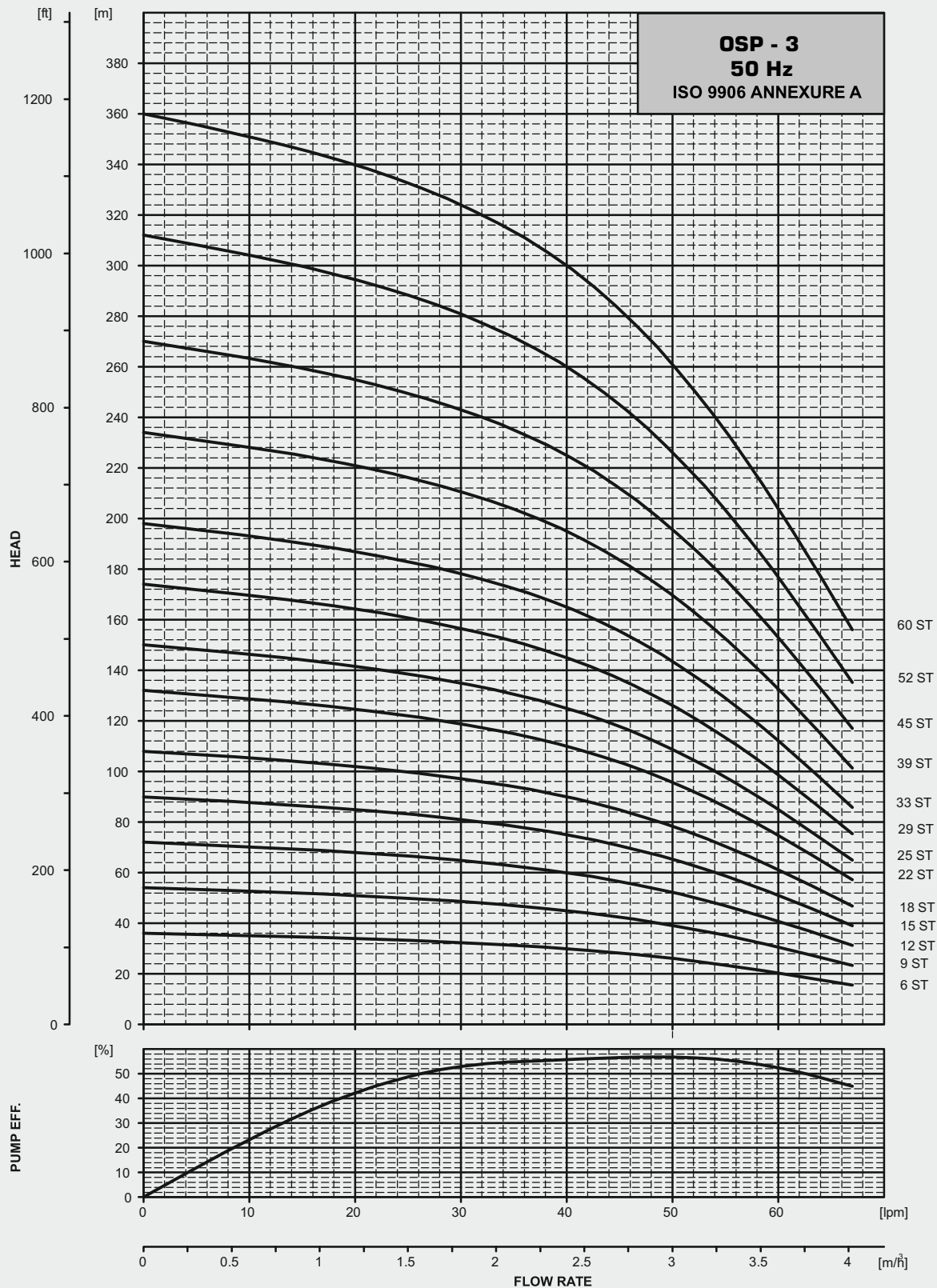
| PUMP MODEL          | STAGE | MOTOR         |              | PUMP   |     |        | MOTOR |
|---------------------|-------|---------------|--------------|--------|-----|--------|-------|
|                     |       | JOINING MOTOR | POWER ( KW ) | Length |     | Weight |       |
|                     |       |               |              | C      | E*  | Kg     | D     |
| OSP-3/6(P4)50(4X4)  | 6     | V-4           | 0.37         | 297    | 101 | 3.12   | 97    |
| OSP-3/9(P4)50(4X4)  | 9     | V-4           | 0.55         | 369    | 101 | 3.88   | 97    |
| OSP-3/12(P4)50(4X4) | 12    | V-4           | 0.75         | 441    | 101 | 4.64   | 97    |
| OSP-3/15(P4)50(4X4) | 15    | V-4           | 1.1          | 513    | 101 | 5.41   | 97    |
| OSP-3/18(P4)50(4X4) | 18    | V-4           | 1.1          | 585    | 101 | 6.17   | 97    |
| OSP-3/22(P4)50(4X4) | 22    | V-4           | 1.5          | 681    | 101 | 7.19   | 97    |
| OSP-3/25(P4)50(4X4) | 25    | V-4           | 1.5          | 753    | 101 | 7.95   | 97    |
| OSP-3/29(P4)50(4X4) | 29    | V-4           | 2.2          | 849    | 101 | 8.97   | 97    |
| OSP-3/33(P4)50(4X4) | 33    | V-4           | 2.2          | 992    | 101 | 11.04  | 97    |
| OSP-3/39(P4)50(4X4) | 39    | V-4           | 3            | 1136   | 101 | 12.56  | 97    |
| OSP-3/45(P4)50(4X4) | 45    | V-4           | 3            | 1280   | 101 | 14.49  | 97    |
| OSP-3/52(P4)50(4X4) | 52    | V-4           | 3.7          | 1448   | 101 | 16.27  | 97    |
| OSP-3/60(P4)50(4X4) | 60    | V-4           | 4.5          | 1640   | 101 | 18.71  | 97    |

\* MAX.DIA OF PUMP WITH ONE MOTOR CABLE

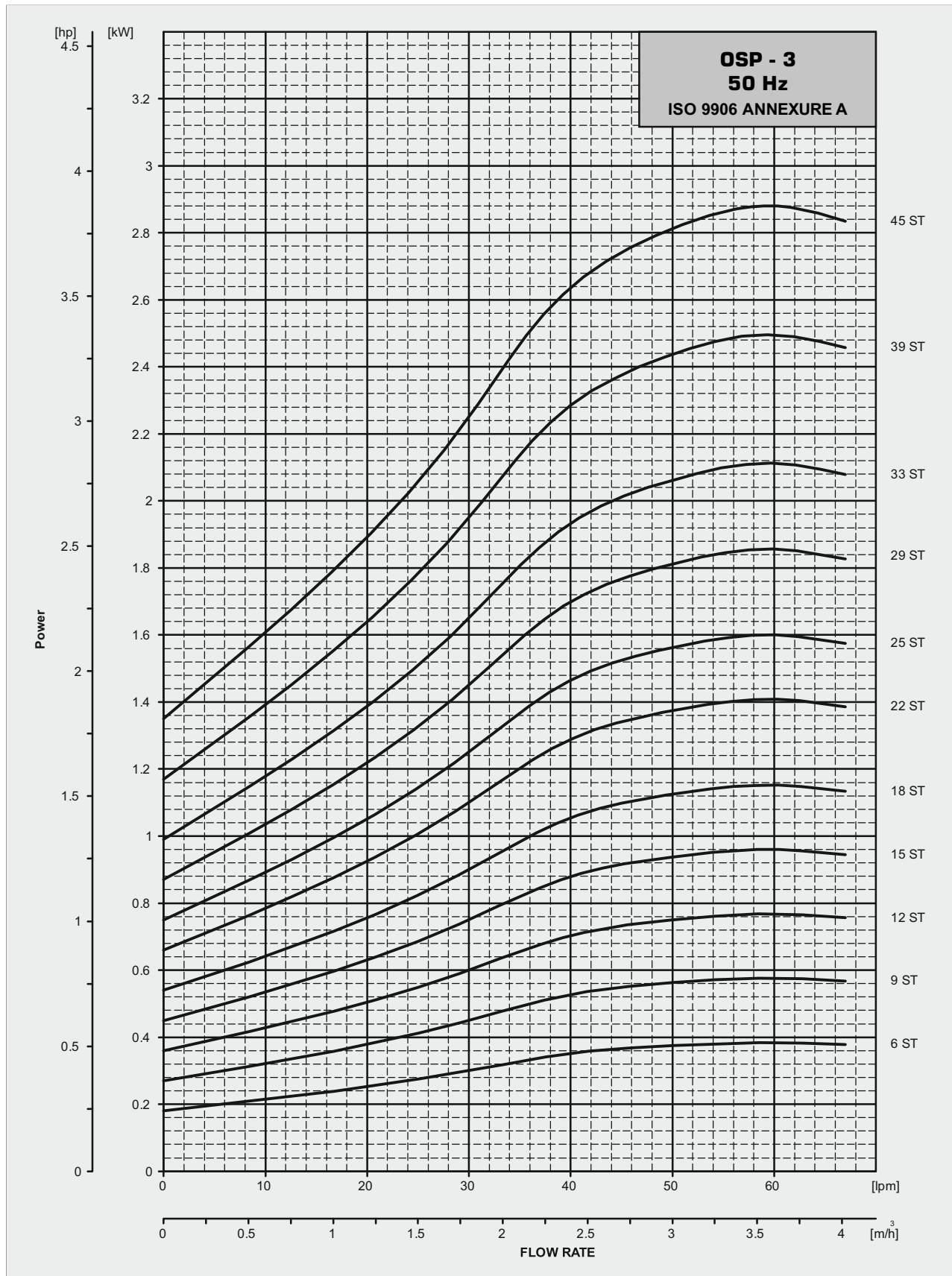
FIGURE



## Performance Curves



## Power Curves



## Performance Chart

OSP-5

| MODEL               | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge               |     |     |     |     |     |     |
|---------------------|------|------|-------|---------------|--------------|-------------------------|-----|-----|-----|-----|-----|-----|
|                     |      |      |       |               |              | M <sup>3</sup> /H (LPM) | 0   | 2.4 | 3.4 | 4   | 5   | 6   |
|                     |      |      |       |               |              |                         | 0   | 40  | 57  | 67  | 83  | 100 |
| OSP-5/4(P4)50(4X4)  | 0.37 | 0.5  | 4     | V-4           | 1½"          | HEAD IN METERS          | 24  | 21  | 20  | 19  | 16  | 12  |
| OSP-5/6(P4)50(4X4)  | 0.55 | 0.75 | 6     | V-4           | 1½"          |                         | 36  | 32  | 30  | 28  | 24  | 17  |
| OSP-5/8(P4)50(4X4)  | 0.75 | 1    | 8     | V-4           | 1½"          |                         | 48  | 42  | 40  | 38  | 32  | 23  |
| OSP-5/12(P4)50(4X4) | 1.1  | 1.5  | 12    | V-4           | 1½"          |                         | 72  | 63  | 60  | 56  | 48  | 35  |
| OSP-5/17(P4)50(4X4) | 1.5  | 2    | 17    | V-4           | 1½"          |                         | 102 | 89  | 85  | 80  | 68  | 49  |
| OSP-5/21(P4)50(4X4) | 2.2  | 3    | 21    | V-4           | 1½"          |                         | 126 | 110 | 105 | 99  | 84  | 61  |
| OSP-5/25(P4)50(4X4) | 2.2  | 3    | 25    | V-4           | 1½"          |                         | 150 | 131 | 125 | 118 | 100 | 73  |
| OSP-5/33(P4)50(4X4) | 3    | 4    | 33    | V-4           | 1½"          |                         | 198 | 173 | 165 | 155 | 132 | 96  |
| OSP-5/38(P4)50(4X4) | 3.7  | 5    | 38    | V-4           | 1½"          |                         | 228 | 200 | 190 | 179 | 152 | 110 |
| OSP-5/44(P4)50(4X4) | 4.5  | 6    | 44    | V-4           | 1½"          |                         | 264 | 231 | 220 | 207 | 176 | 128 |
| OSP-5/52(P4)50(4X4) | 5.5  | 7.5  | 52    | V-4           | 1½"          |                         | 312 | 273 | 260 | 244 | 208 | 151 |
| OSP-5/60(P4)50(4X4) | 5.5  | 7.5  | 60    | V-4           | 1½"          |                         | 360 | 315 | 300 | 282 | 240 | 174 |

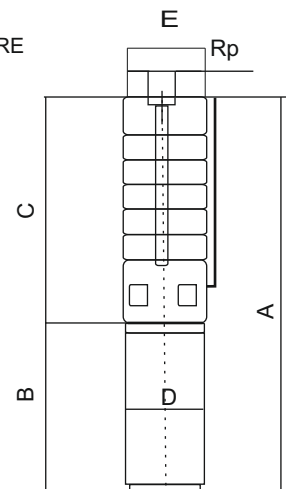
## Dimension & weights of Pump

## Technical Data

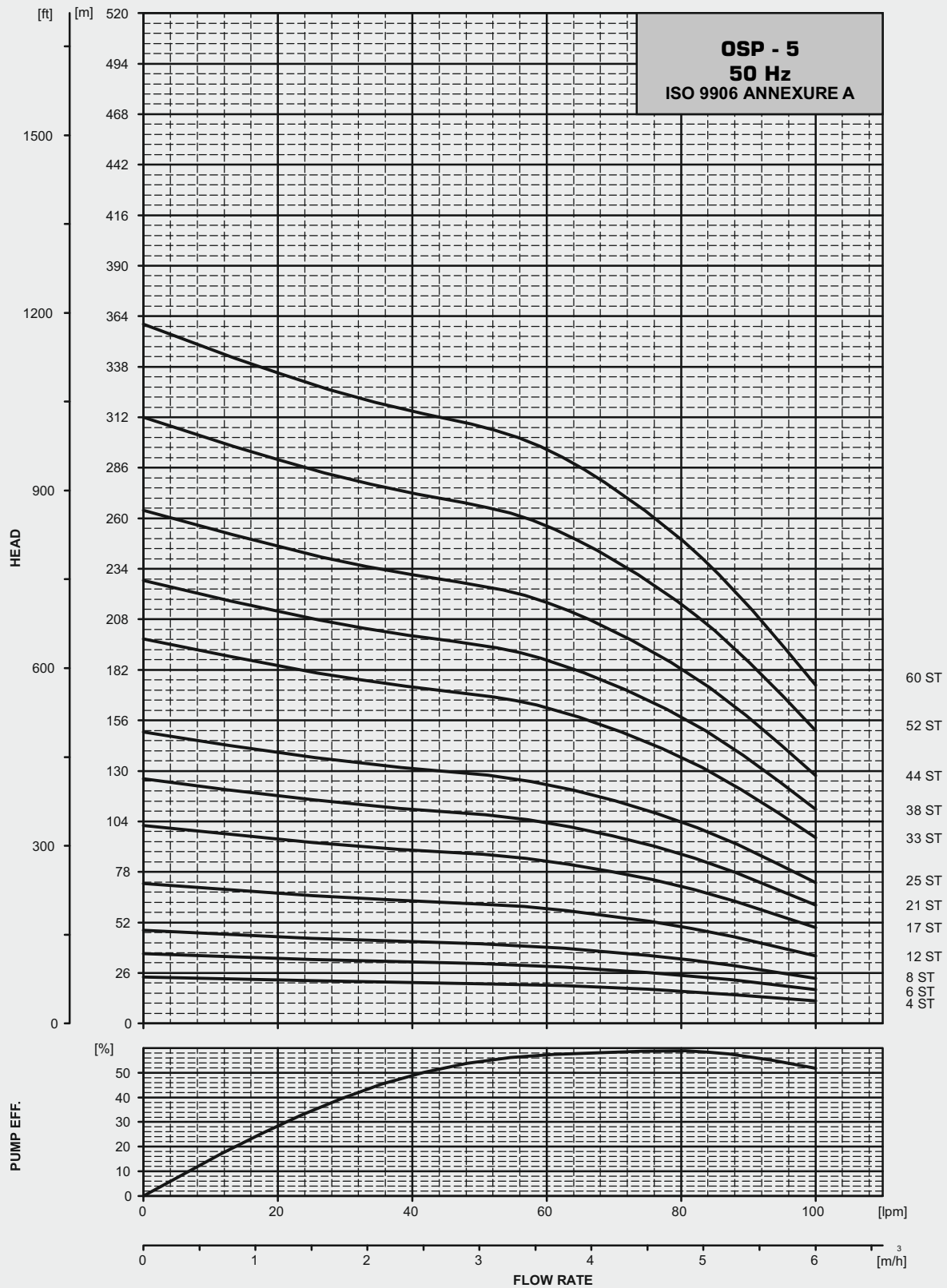
OSP-5

| PUMP MODEL          | STAGE | MOTOR         |              | PUMP   |     |        | MOTOR |
|---------------------|-------|---------------|--------------|--------|-----|--------|-------|
|                     |       | JOINING MOTOR | POWER ( KW ) | Length |     | Weight | OD    |
|                     |       |               |              | C      | E*  | Kg     | D     |
| OSP-5/4(P4)50(4X4)  | 4     | V-4           | 0.37         | 249    | 101 | 2.61   | 97    |
| OSP-5/6(P4)50(4X4)  | 6     | V-4           | 0.55         | 297    | 101 | 3.12   | 97    |
| OSP-5/8(P4)50(4X4)  | 8     | V-4           | 0.75         | 345    | 101 | 3.63   | 97    |
| OSP-5/12(P4)50(4X4) | 12    | V-4           | 1.1          | 441    | 101 | 4.64   | 97    |
| OSP-5/17(P4)50(4X4) | 17    | V-4           | 1.5          | 561    | 101 | 5.92   | 97    |
| OSP-5/21(P4)50(4X4) | 21    | V-4           | 2.2          | 657    | 101 | 6.94   | 97    |
| OSP-5/25(P4)50(4X4) | 25    | V-4           | 2.2          | 753    | 101 | 7.95   | 97    |
| OSP-5/33(P4)50(4X4) | 33    | V-4           | 3            | 992    | 101 | 11.04  | 97    |
| OSP-5/38(P4)50(4X4) | 38    | V-4           | 3.7          | 1112   | 101 | 12.31  | 97    |
| OSP-5/44(P4)50(4X4) | 44    | V-4           | 4.5          | 1256   | 101 | 14.23  | 97    |
| OSP-5/52(P4)50(4X4) | 52    | V-4           | 5.5          | 1448   | 101 | 16.27  | 97    |
| OSP-5/60(P4)50(4X4) | 60    | V-4           | 5.5          | 1640   | 101 | 18.31  | 97    |

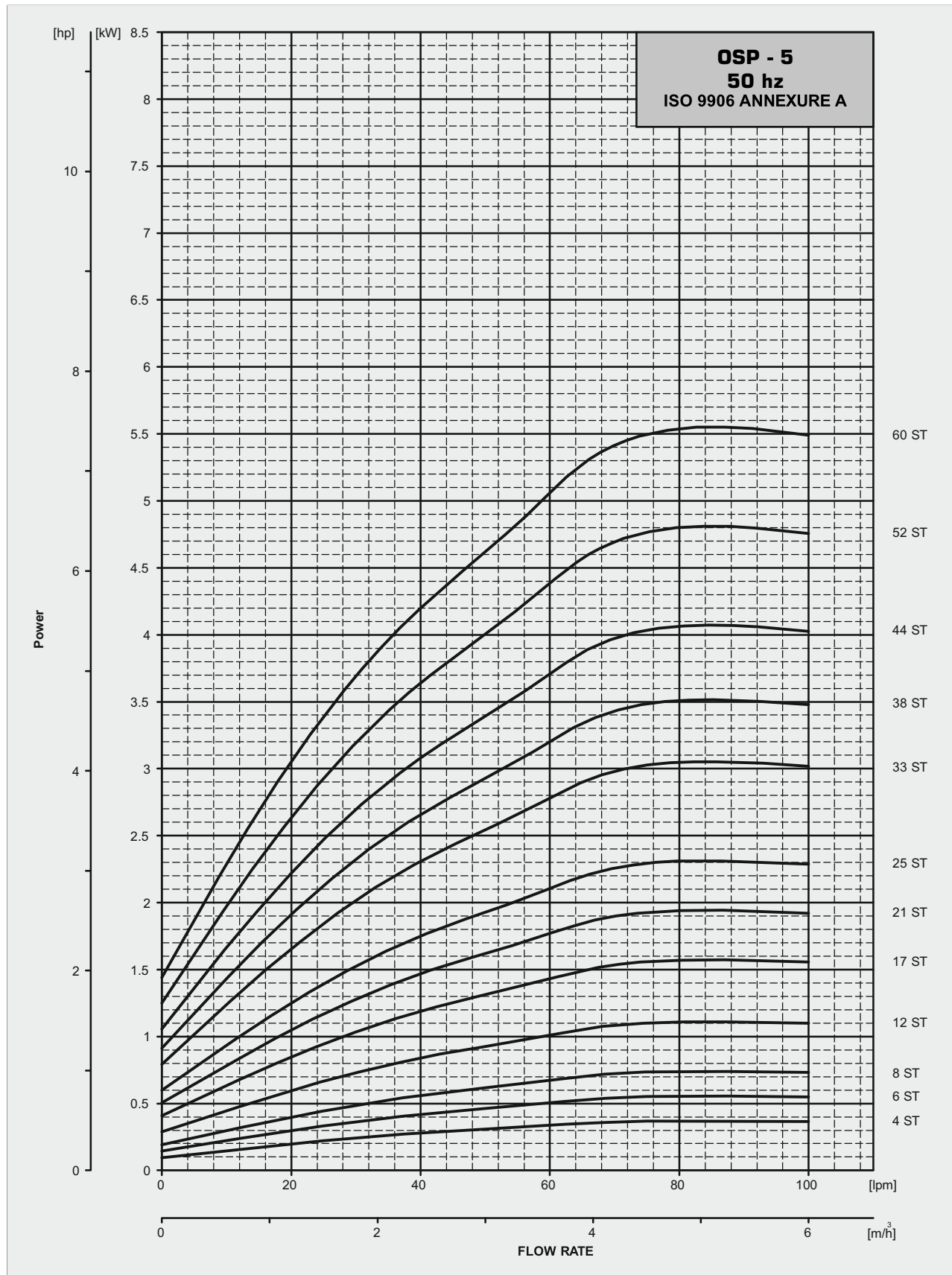
FIGURE



## Performance Curves



## Power Curves



## Performance Chart

**OSP-8**

| MODEL               | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge               |     |     |     |     |     |     |
|---------------------|------|------|-------|---------------|--------------|-------------------------|-----|-----|-----|-----|-----|-----|
|                     |      |      |       |               |              | M <sup>3</sup> /H (LPM) | 0   | 4   | 6   | 8   | 9   | 10  |
|                     |      |      |       |               |              |                         | 0   | 67  | 100 | 133 | 150 | 187 |
| OSP-8/5(P4)50(4X4)  | 0.75 | 1    | 5     | V-4           | 2"           | HEAD IN METERS          | 30  | 24  | 23  | 20  | 18  | 14  |
| OSP-8/7(P4)50(4X4)  | 1.1  | 1.5  | 7     | V-4           | 2"           |                         | 42  | 34  | 32  | 28  | 25  | 20  |
| OSP-8/10(P4)50(4X4) | 1.5  | 2    | 10    | V-4           | 2"           |                         | 60  | 48  | 45  | 40  | 36  | 28  |
| OSP-8/12(P4)50(4X4) | 2.2  | 3    | 12    | V-4           | 2"           |                         | 72  | 58  | 54  | 48  | 43  | 34  |
| OSP-8/15(P4)50(4X4) | 2.2  | 3    | 15    | V-4           | 2"           |                         | 90  | 72  | 68  | 60  | 54  | 42  |
| OSP-8/18(P4)50(4X4) | 3    | 4    | 18    | V-4           | 2"           |                         | 108 | 86  | 81  | 72  | 65  | 50  |
| OSP-8/21(P4)50(4X4) | 3.7  | 5    | 21    | V-4           | 2"           |                         | 126 | 101 | 95  | 84  | 76  | 59  |
| OSP-8/25(P4)50(4X4) | 4.5  | 6    | 25    | V-4           | 2"           |                         | 150 | 120 | 113 | 100 | 90  | 70  |
| OSP-8/30(P4)50(4X4) | 5.5  | 7.5  | 30    | V-4           | 2"           |                         | 180 | 144 | 135 | 120 | 108 | 84  |
| OSP-8/37(P4)50(4X4) | 5.5  | 7.5  | 37    | V-4           | 2"           |                         | 222 | 178 | 167 | 148 | 133 | 104 |

### Dimension & weights of Pump

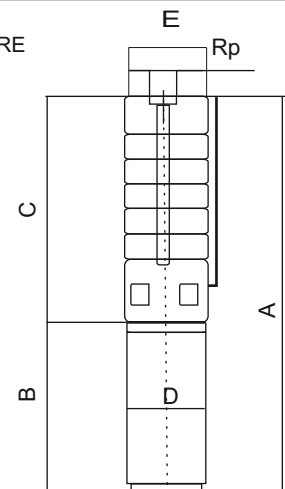
## Technical Data

**OSP-8**

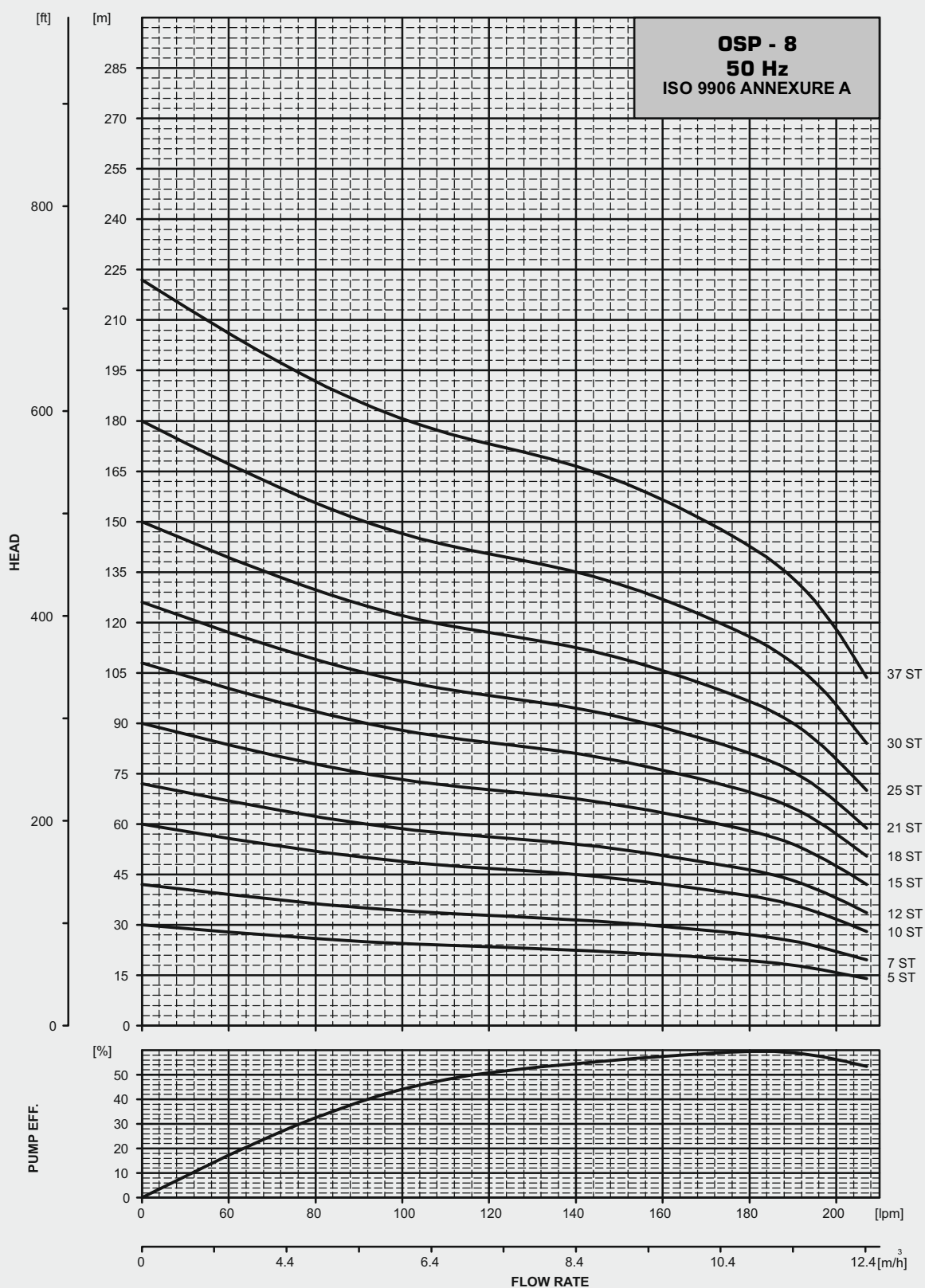
|                       |       | MOTOR         |            |        |    |        | Motor |
|-----------------------|-------|---------------|------------|--------|----|--------|-------|
| MODEL                 | Stage | Joining Motor | Power( KW) | Length |    | Weight | OD    |
| 50 Hz                 |       |               |            | C(mm)  | E* | Kg     | (mm)  |
| OSP - 8/3(P4)50(4X4)  | 3     | V-4           | 0.75       | 333    | 98 | 4.0    | 97    |
| OSP - 8/5(P4)50(4X4)  | 5     | V-4           | 1.1        | 417    | 98 | 5.0    | 97    |
| OSP - 8/7(P4)50(4X4)  | 7     | V-4           | 1.5        | 501    | 98 | 6.0    | 97    |
| OSP - 8/9(P4)50(4X4)  | 9     | V-4           | 2.2        | 585    | 98 | 7.0    | 97    |
| OSP - 8/12(P4)50(4X4) | 12    | V-4           | 3.0        | 711    | 98 | 8.5    | 97    |
| OSP - 8/15(P4)50(4X4) | 15    | V-4           | 4.0        | 837    | 98 | 10.0   | 97    |
| OSP - 8/18(P4)50(4X4) | 18    | V-4           | 5.5        | 963    | 98 | 11.5   | 97    |
| OSP - 8/21(P4)50(4X4) | 21    | V-4           | 5.5        | 1089   | 98 | 13.0   | 97    |
| OSP - 8/25(P4)50(4X4) | 25    | V-4           | 5.5        | 1257   | 98 | 15.0   | 97    |
| OSP - 8/30(P4)50(4X4) | 30    | V-4           | 7.5        | 1467   | 98 | 17.5   | 97    |
| OSP - 8/37(P4)50(4X4) | 37    | V-4           | 7.5        | 1761   | 98 | 21.0   | 97    |

MAX.DIA OF PUMP WITH ONE MOTOR CABLE

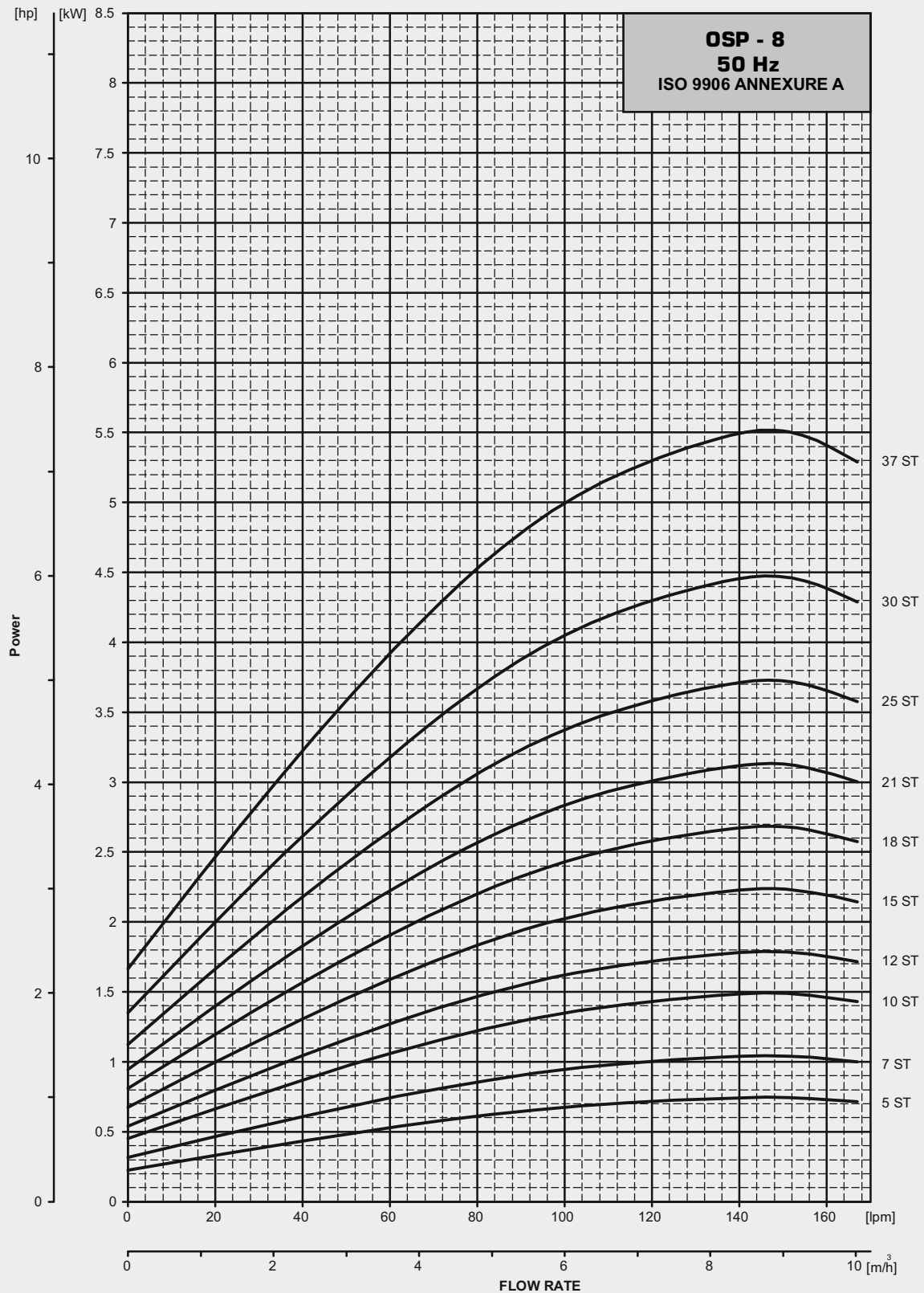
FIGURE



## Performance Curves



## Power Curves



## Performance Chart

**OSP-14**

| MODEL                | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge               |     |     |     |     |     |     |
|----------------------|------|------|-------|---------------|--------------|-------------------------|-----|-----|-----|-----|-----|-----|
|                      |      |      |       |               |              | M <sup>3</sup> /H (LPM) | 0   | 6   | 12  | 14  | 15  | 18  |
|                      |      |      |       |               |              |                         | 0   | 100 | 200 | 233 | 250 | 300 |
| OSP-14/5(P4)50(4X4)  | 1.5  | 2    | 5     | V-4           | 2"           | HEAD IN METERS          | 33  | 31  | 26  | 23  | 21  | 13  |
| OSP-14/7(P4)50(4X4)  | 2.2  | 3    | 7     | V-4           | 2"           |                         | 46  | 43  | 36  | 32  | 29  | 18  |
| OSP-14/10(P4)50(4X4) | 3    | 4    | 10    | V-4           | 2"           |                         | 66  | 62  | 51  | 46  | 41  | 26  |
| OSP-14/13(P4)50(4X4) | 4.5  | 6    | 13    | V-4           | 2"           |                         | 86  | 81  | 66  | 60  | 53  | 34  |
| OSP-14/18(P4)50(4X4) | 5.5  | 7.5  | 18    | V-4           | 2"           |                         | 119 | 112 | 92  | 83  | 74  | 47  |
|                      |      |      |       |               |              |                         |     |     |     |     |     |     |

## Dimension & weights of Pump

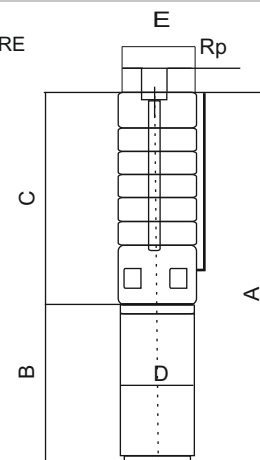
## Technical Data

**OSP-14**

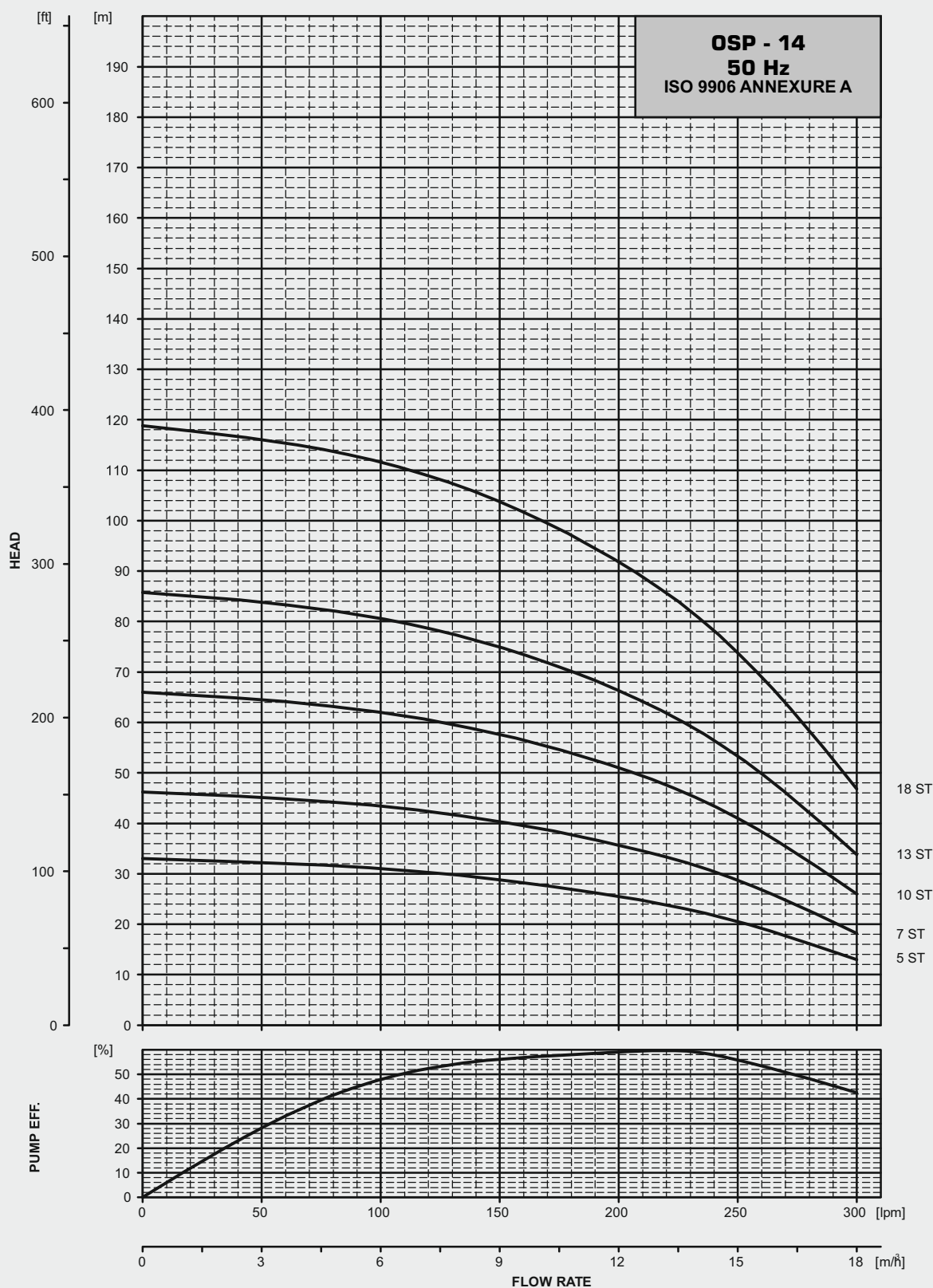
| PUMP MODEL           | STAGE | MOTOR         |              | PUMP     |     |           | MOTOR |
|----------------------|-------|---------------|--------------|----------|-----|-----------|-------|
|                      |       | JOINING MOTOR | POWER ( KW ) | Length C | E*  | Weight Kg | OD D  |
| OSP-14/5(P4)50(4X4)  | 5     | V-4           | 1.50         | 510      | 101 | 6.10      | 97    |
| OSP-14/7(P4)50(4X4)  | 7     | V-4           | 2.20         | 640      | 101 | 7.62      | 97    |
| OSP-14/10(P4)50(4X4) | 10    | V-4           | 3            | 835      | 101 | 9.89      | 97    |
| OSP-14/13(P4)50(4X4) | 13    | V-4           | 4.5          | 1030     | 101 | 12.16     | 97    |
| OSP-14/18(P4)50(4X4) | 18    | V-4           | 5.5          | 1355     | 101 | 15.95     | 97    |

MAX.DIA OF PUMP WITH ONE MOTOR CABLE

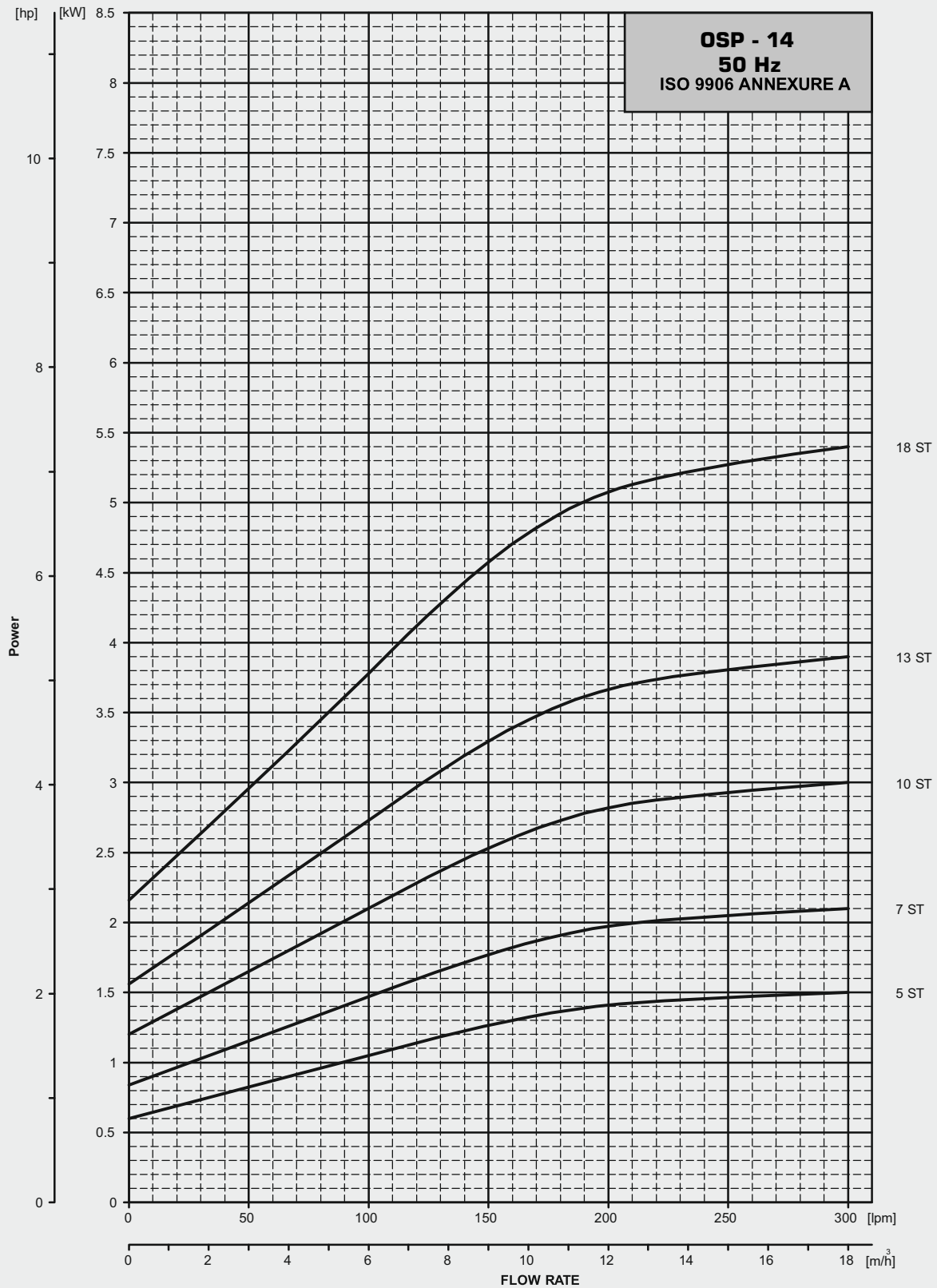
FIGURE



## Performance Curves



## Power Curves



**OSP-9, OSP-12, OSP-17, OSP-30, OSP-46, OSP-40 & OSP-60**

# 6" *Submersible Pump*



## 6" Submersible Pump General Data

### Construction

Submersible motor and pumps for Bore wells of 6" ( 150 mm )

- ☐ All sizes of pumps according to the NEMA standard

OSP series pumps are completely made out of AISI 304 stainless steel material.

Mixed flow Model : OSP-9 , OSP-12, OSP-17, OSP-30, OSP-40, OSP-46, OSP-60

### Application

For water supply

For irrigation

For civil and industrial applications.

For fire fighting application

### General Data

Head range up to 475 meters

- ☐ Flow range up to 60 M<sup>3</sup>/hr.

### Operating Condition

Maximum Ambient temperature : 50°C

Maximum quantity of sand 50 gm / m<sup>3</sup>

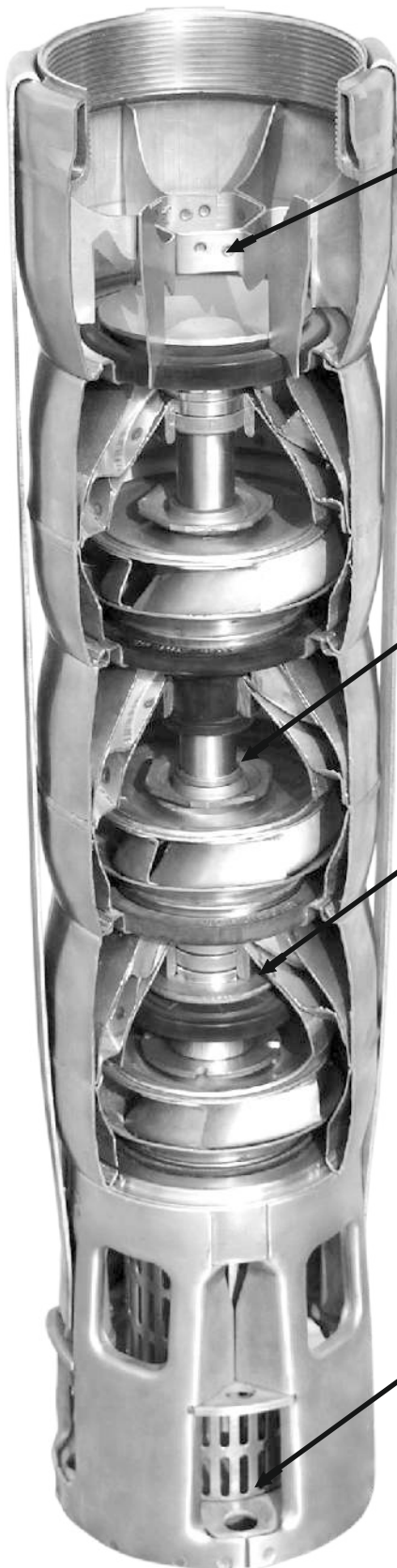
- ☐ Minimum suction head required : 1.5 meter.

Max. start per hour 30 at regular intervals.

Direction of rotation : clockwise as seen from the pump coupling side.

Also available in NPT connection.

## Cut View 6" Submersible Pump



### *Non-Return Valve*

- \* All pumps are equipped with a reliable non-return valve which prevents back flow in connection with pump stoppage.
- \* Further more, the short closing time of the non-return valve means that the risk of destructive water hammer is reduced to the minimum.
- \* The valve casing is designed for optimum hydraulic properties, to minimize the pressure loss across the valve and thus contributes to the high efficiency of the pump.

### *Bearing with Sand Channels*

- \* All bearing are water-Lubricated and have a octagone shape enabling sand particles.

### *Stop Ring*

- \* The stop ring prevents damage to the pump during transport and in case of up-thrust in connection with start-up.
- \* The stop ring, which is designed as a thrust bearing limits axial movements of the pump shaft.

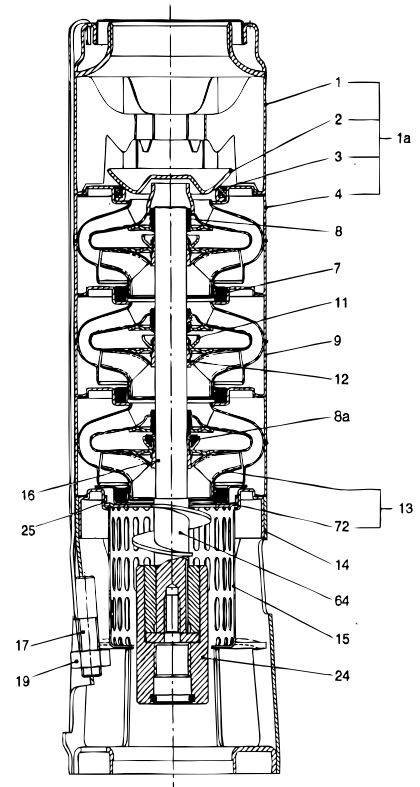
### *Inlet Strainer*

- \* The inlet strainer prevents particles over a certain size from entering the pump.

## Material of Construction

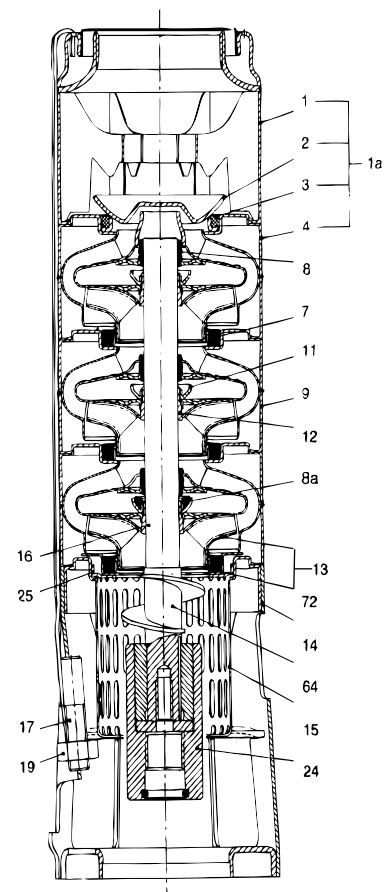
### MATERIAL SPECIFICATION OSP 9

| S.No. | Components                 | Material                            | Standard |
|-------|----------------------------|-------------------------------------|----------|
| 1     | Valve casing               | Stainless steel                     | 304      |
| 1a    | Discharge chamber complete | Stainless steel                     | 304      |
| 2     | Valve cup                  | Stainless steel                     | 304      |
| 3     | Valve seat                 | Stainless steel                     |          |
| 4     | Top intermediate chamber   | Stainless steel                     | 304      |
| 7     | Neck ring                  | NBR/PPS                             |          |
| 8     | Intermediate bearing       | NBR                                 |          |
| 9     | Spacing washer             | Cabron /graphite Hy 22 in PTFE mass |          |
| 8a    | Intermediate chamber       | Stainless steel                     | 304      |
| 11    | Split cone nut             | Stainless steel                     | 304      |
| 12    | Split cone                 | Stainless steel                     | 304      |
| 13    | Impeller                   | Stainless steel                     | 304      |
| 14    | Suction interconnector     | Stainless steel                     | 304      |
| 15    | Strainer                   | Stainless steel                     | 304      |
| 16    | Pump shaft                 | Stainless steel                     | 431      |
| 17    | Strap                      | Stainless steel                     | 304      |
| 18    | Cable guard                | Stainless steel                     | 304      |
| 72    | Wear ring                  | Stainless steel                     | 304      |
| 75    | Spacer ring                | Stainless steel                     | 304      |



### MATERIAL SPECIFICATION OSP 12

| S.No. | Components                 | Material                            | Standard |
|-------|----------------------------|-------------------------------------|----------|
| 1     | Valve casing               | Stainless steel                     | 304      |
| 1a    | Discharge chamber complete | Stainless steel                     | 304      |
| 2     | Valve cup                  | Stainless steel                     | 304      |
| 3     | Valve seat                 | Stainless steel                     |          |
| 4     | Top intermediate chamber   | Stainless steel                     | 304      |
| 7     | Neck ring                  | NBR/PPS                             |          |
| 8     | Intermediate bearing       | NBR                                 |          |
| 9     | Spacing washer             | Cabron /graphite Hy 22 in PTFE mass |          |
| 8a    | Intermediate chamber       | Stainless steel                     | 304      |
| 11    | Split cone nut             | Stainless steel                     | 304      |
| 12    | Split cone                 | Stainless steel                     | 304      |
| 13    | Impeller                   | Stainless steel                     | 304      |
| 14    | Suction interconnector     | Stainless steel                     | 304      |
| 15    | Strainer                   | Stainless steel                     | 304      |
| 16    | Pump shaft                 | Stainless steel                     | 431      |
| 17    | Strap                      | Stainless steel                     | 304      |
| 18    | Cable guard                | Stainless steel                     | 304      |
| 72    | Wear ring                  | Stainless steel                     | 304      |
| 75    | Spacer ring                | Stainless steel                     | 304      |

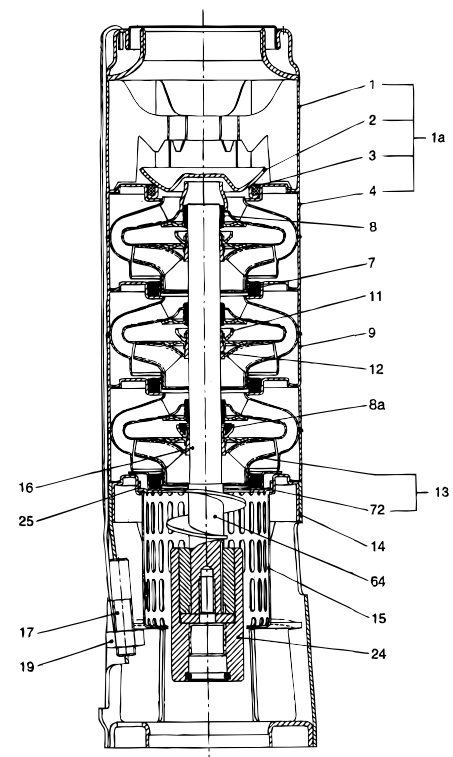


## Material of Construction

### MATERIAL SPECIFICATION OSP -17

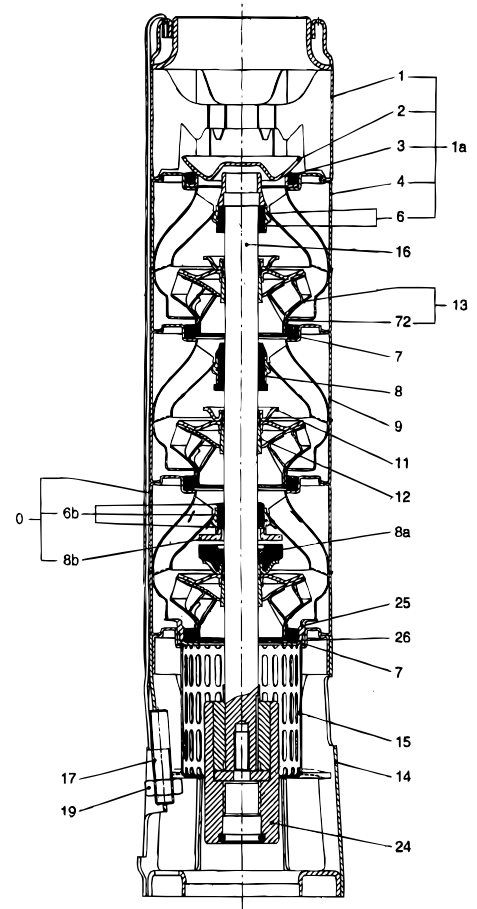
| S.No. | Components                 | Material                            | Standard |
|-------|----------------------------|-------------------------------------|----------|
| 1     | Valve casing               | Stainless steel                     | 304      |
| 1a    | Discharge chamber complete | Stainless steel                     | 304      |
| 2     | Valve cup                  | Stainless steel                     | 304      |
| 3     | Valve seat                 | Stainless steel                     |          |
| 4     | Top intermediate chamber   | Stainless steel                     | 304      |
| 7     | Neck ring                  | NBR/PPS                             |          |
| 8     | Intermediate bearing       | NBR                                 |          |
| 9     | Spacing washer             | Carbon /graphite Hy 22 in PTFE mass |          |
| 8a    | Intermediate chamber       | Stainless steel                     | 304      |
| 11    | Split cone nut             | Stainless steel                     | 304      |
| 12    | Split cone                 | Stainless steel                     | 304      |
| 13    | Impeller                   | Stainless steel                     | 304      |
| 14    | Suction interconnector     | Stainless steel                     | 304      |
| 15    | Strainer                   | Stainless steel                     | 304      |
| 16    | Pump shaft                 | Stainless steel                     | 431      |
| 17    | Strap                      | Stainless steel                     | 304      |
| 18    | Cable guard                | Stainless steel                     | 304      |
| 72    | Wear ring                  | Stainless steel                     | 304      |
| 75    | Spacer ring                | Stainless steel                     | 304      |
| 78    | Nameplate                  | Stainless steel                     | 304      |

### Sectional View



### MATERIAL SPECIFICATION OSP - 30

| S.No. | Components                   | Material                           | Standard |
|-------|------------------------------|------------------------------------|----------|
| 1     | Valve casing                 | Stainless steel                    | 304      |
| 1a    | Discharge chamber complete   | Stainless steel                    | 304      |
| 2     | Valve cup                    | Stainless steel                    | 304      |
| 3     | Valve seat                   | Stainless steel +NBR               |          |
| 4     | Top intermediate chamber     | Stainless steel                    | 304      |
| 6     | Upper bearing                | NBR                                |          |
|       | Cap                          | Stainless steel                    | 304      |
| 6b    | Lower bearing                | NBR                                |          |
|       | Cap                          | Stainless steel                    | 304      |
| 7     | Neck ring                    | NBR+Stainless steel                |          |
| 8     | Intermediate bearing.        | NBR                                |          |
| 8a    | Spacing washer for stop ring | Carbon/graphite Hy 22 in PTFE mass |          |
| 8b    | Stop ring                    | Stainless steel                    | 304      |
| 9     | Intermediate chamber         | Stainless steel                    | 304      |
| 10    | Bottom intermediate chamber  | Stainless steel                    | 304      |
| 11    | Split cone nut               | Stainless steel                    | 304      |
| 12    | Split cone                   | Stainless steel                    | 304      |
| 13    | Impeller                     | Stainless steel                    | 304      |
| 14    | Suction interconnector       | Stainless steel                    | 304      |
| 15    | Strainer                     | Stainless steel                    | 304      |
| 16    | Pump shaft                   | Stainless steel                    | 431      |
| 17    | Strap                        | Stainless steel                    | 304      |
| 18    | Cable guard                  | Stainless steel                    | 304      |
| 19    | Nut                          | Stainless steel                    | 304      |
| 19a   | Nut                          | Stainless steel                    | 304      |
| 23    | Rubber guard                 | Rubber                             |          |
| 25    | Neck ring retainer           | Stainless steel                    | 304      |
| 72    | Wear ring                    | Stainless steel                    | 304      |

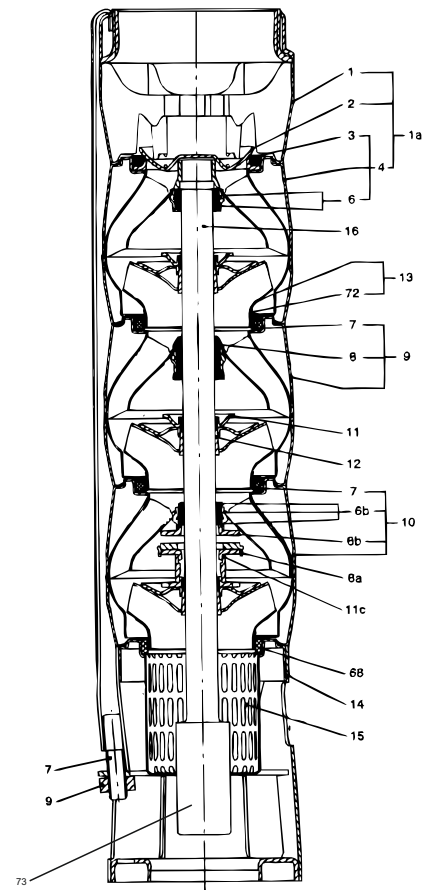


## Material of Construction

### MATERIAL SPECIFICATION - OSP -46/60

| S.No. | Components                   | Material                           | Standard |
|-------|------------------------------|------------------------------------|----------|
| 1     | Valve casing                 | Stainless steel                    | 304      |
| 1a    | Discharge chamber complete   | Stainless steel                    | 304      |
| 2     | Valve cup                    | Stainless steel                    | 304      |
| 3     | Valve seat                   | Stainless steel +NBR               |          |
| 4     | Top chamber                  | Stainless steel                    | 304      |
| 6     | Upper bearing                | NBR                                |          |
|       | Cap                          | Stainless steel                    | 304      |
| 6b    | Lower bearing                | NBR                                |          |
|       | Cap                          | Stainless steel                    | 304      |
| 7     | Neck ring                    | NBR+Stainless steel                |          |
| 8     | Bearing.                     | NBR                                |          |
| 8a    | Washer for stop ring         | Cabron/graphite hy 22 in ptfе mass |          |
| 8b    | Stop ring                    | Stainless steel                    | 304      |
| 9     | Inter mediate Chamber        | Stainless steel                    | 304      |
| 10    | Bottom chamber complete      | Stainless steel                    | 304      |
| 11    | Split cone nut               | Stainless steel                    | 304      |
| 11c   | Nut for stop ring            | Stainless steel                    | 304      |
| 12    | Split cone                   | Stainless steel                    | 304      |
| 13    | Impeller                     | Stainless steel                    | 304      |
| 14    | Suction interconnector       | Stainless steel                    | 304      |
| 15    | Strainer                     | Stainless steel                    | 431      |
| 16    | Pump shaft                   | Stainless steel                    | 304      |
| 17    | Strap                        | Stainless steel                    | 304      |
| 18    | Cable guard                  | Stainless steel                    | 304      |
| 18a   | Cheese-screw for cable guard | Stainless steel                    | 304      |
| 19    | Nut                          | Stainless steel                    | 304      |
| 72    | Wear ring                    | Stainless steel                    | 304      |
| 73    | Coupling                     | Stainless steel                    | 304      |

### Sectional View



## Performance Table

### Submersible Pump OSP-9

| MODEL OSP - 9       | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge Q       |      |     |     |     |     |
|---------------------|------|------|-------|---------------|--------------|-------------------|------|-----|-----|-----|-----|
|                     |      |      |       |               |              | M <sup>3</sup> /H | 0    | 6   | 9   | 12  | 15  |
|                     |      |      |       |               |              | LPM               | 0    | 100 | 150 | 200 | 250 |
| OSP-9/1(P4)50(4X6)  | 0.55 | 0.75 | 1     | V-4           | 2"BSP        | (HEAD (METERS))   | 10.5 | 9.8 | 8.8 | 7.5 | 6.2 |
| OSP-9/2(P4)50(4X6)  | 1.1  | 1.5  | 2     | V-4           | 2"BSP        |                   | 21   | 20  | 18  | 15  | 12  |
| OSP-9/3(P4)50(4X6)  | 1.5  | 2    | 3     | V-4           | 2"BSP        |                   | 32   | 29  | 26  | 23  | 19  |
| OSP-9/4(P4)50(4X6)  | 2.2  | 3    | 4     | V-4           | 2"BSP        |                   | 42   | 39  | 35  | 30  | 25  |
| OSP-9/5(P4)50(4X6)  | 2.2  | 3    | 5     | V-4           | 2"BSP        |                   | 53   | 49  | 44  | 38  | 31  |
| OSP-9/6(P4)50(4X6)  | 3.0  | 4    | 6     | V-4           | 2"BSP        |                   | 63   | 59  | 53  | 45  | 37  |
| OSP-9/7(P4)50(4X6)  | 3.0  | 4    | 7     | V-4           | 2"BSP        |                   | 74   | 69  | 62  | 53  | 43  |
| OSP-9/8(P4)50(6X6)  | 4.0  | 5.5  | 8     | V-6           | 2"BSP        |                   | 84   | 78  | 70  | 60  | 50  |
| OSP-9/9(P4)50(6X6)  | 4.0  | 5.5  | 9     | V-6           | 2"BSP        |                   | 95   | 88  | 79  | 68  | 56  |
| OSP-9/10(P4)50(6X6) | 4.5  | 6    | 10    | V-6           | 2"BSP        |                   | 105  | 98  | 88  | 75  | 62  |
| OSP-9/11(P4)50(6X6) | 5.5  | 7.5  | 11    | V-6           | 2"BSP        |                   | 116  | 108 | 97  | 83  | 68  |
| OSP-9/12(P4)50(6X6) | 5.5  | 7.5  | 12    | V-6           | 2"BSP        |                   | 126  | 118 | 106 | 90  | 74  |
| OSP-9/13(P4)50(6X6) | 5.5  | 7.5  | 13    | V-6           | 2"BSP        |                   | 137  | 127 | 114 | 98  | 81  |
| OSP-9/14(P4)50(6X6) | 7.5  | 10   | 14    | V-6           | 2"BSP        |                   | 147  | 137 | 123 | 105 | 87  |
| OSP-9/15(P4)50(6X6) | 7.5  | 10   | 15    | V-6           | 2"BSP        |                   | 158  | 147 | 132 | 113 | 93  |
| OSP-9/16(P4)50(6X6) | 7.5  | 10   | 16    | V-6           | 2"BSP        |                   | 168  | 157 | 141 | 120 | 99  |
| OSP-9/17(P4)50(6X6) | 7.5  | 10   | 17    | V-6           | 2"BSP        |                   | 179  | 167 | 150 | 128 | 105 |
| OSP-9/18(P4)50(6X6) | 7.5  | 10   | 18    | V-6           | 2"BSP        |                   | 189  | 176 | 158 | 135 | 112 |
| OSP-9/19(P4)50(6X6) | 9.3  | 12.5 | 19    | V-6           | 2"BSP        |                   | 200  | 186 | 167 | 143 | 118 |
| OSP-9/20(P4)50(6X6) | 9.3  | 12.5 | 20    | V-6           | 2"BSP        |                   | 210  | 196 | 176 | 150 | 124 |
| OSP-9/21(P4)50(6X6) | 9.3  | 12.5 | 21    | V-6           | 2"BSP        |                   | 221  | 206 | 185 | 158 | 130 |
| OSP-9/22(P4)50(6X6) | 9.3  | 12.5 | 22    | V-6           | 2"BSP        |                   | 231  | 216 | 194 | 165 | 136 |
| OSP-9/23(P4)50(6X6) | 11   | 15   | 23    | V-6           | 2"BSP        |                   | 242  | 225 | 202 | 173 | 143 |
| OSP-9/24(P4)50(6X6) | 11   | 15   | 24    | V-6           | 2"BSP        |                   | 252  | 235 | 211 | 180 | 149 |
| OSP-9/25(P4)50(6X6) | 11   | 15   | 25    | V-6           | 2"BSP        |                   | 263  | 245 | 220 | 188 | 155 |
| OSP-9/26(P4)50(6X6) | 11   | 15   | 26    | V-6           | 2"BSP        |                   | 273  | 255 | 229 | 195 | 161 |
| OSP-9/27(P4)50(6X6) | 13   | 17.5 | 27    | V-6           | 2"BSP        |                   | 284  | 265 | 238 | 203 | 167 |
| OSP-9/28(P4)50(6X6) | 13   | 17.5 | 28    | V-6           | 2"BSP        |                   | 294  | 274 | 246 | 210 | 174 |
| OSP-9/29(P4)50(6X6) | 13   | 17.5 | 29    | V-6           | 2"BSP        |                   | 305  | 284 | 255 | 218 | 180 |
| OSP-9/30(P4)50(6X6) | 13   | 17.5 | 30    | V-6           | 2"BSP        |                   | 315  | 294 | 264 | 225 | 186 |
| OSP-9/31(P4)50(6X6) | 13   | 17.5 | 31    | V-6           | 2"BSP        |                   | 326  | 304 | 273 | 233 | 192 |
| OSP-9/32(P4)50(6X6) | 15   | 20   | 32    | V-6           | 2"BSP        |                   | 336  | 314 | 282 | 240 | 198 |
| OSP-9/33(P4)50(6X6) | 15   | 20   | 33    | V-6           | 2"BSP        |                   | 347  | 323 | 290 | 248 | 205 |
| OSP-9/34(P4)50(6X6) | 15   | 20   | 34    | V-6           | 2"BSP        |                   | 357  | 333 | 299 | 255 | 211 |
| OSP-9/35(P4)50(6X6) | 15   | 20   | 35    | V-6           | 2"BSP        |                   | 368  | 343 | 308 | 263 | 217 |
| OSP-9/36(P4)50(6X6) | 15   | 20   | 36    | V-6           | 2"BSP        |                   | 378  | 353 | 317 | 270 | 223 |
| OSP-9/37(P4)50(6X6) | 18.5 | 25   | 37    | V-6           | 2"BSP        |                   | 389  | 363 | 326 | 278 | 229 |
| OSP-9/38(P4)50(6X6) | 18.5 | 25   | 38    | V-6           | 2"BSP        |                   | 399  | 372 | 334 | 285 | 236 |
| OSP-9/39(P4)50(6X6) | 18.5 | 25   | 39    | V-6           | 2"BSP        |                   | 410  | 382 | 343 | 293 | 242 |
| OSP-9/40(P4)50(6X6) | 18.5 | 25   | 40    | V-6           | 2"BSP        |                   | 420  | 392 | 352 | 300 | 248 |
| OSP-9/41(P4)50(6X6) | 18.5 | 25   | 41    | V-6           | 2"BSP        |                   | 431  | 402 | 361 | 308 | 254 |
| OSP-9/42(P4)50(6X6) | 18.5 | 25   | 42    | V-6           | 2"BSP        |                   | 441  | 412 | 370 | 315 | 260 |
| OSP-9/43(P4)50(6X6) | 18.5 | 25   | 43    | V-6           | 2"BSP        |                   | 452  | 421 | 378 | 323 | 267 |
| OSP-9/44(P4)50(6X6) | 18.5 | 25   | 44    | V-6           | 2"BSP        |                   | 462  | 431 | 387 | 330 | 273 |

## Performance Table

### Submersible Pump OSP-9

| MODEL OSP - 9       | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge Q |     |     |     |     |     |
|---------------------|------|------|-------|---------------|--------------|-------------|-----|-----|-----|-----|-----|
|                     |      |      |       |               |              | M³/H        | 0   | 6   | 9   | 12  | 15  |
|                     |      |      |       |               |              | LPM         | 0   | 100 | 150 | 200 | 250 |
| OSP-9/52(P4)50(6X6) | 22   | 30   | 52    | V-6           | 2"BSP        |             | 546 | 510 | 458 | 390 | 222 |
| OSP-9/60(P4)50(6X6) | 30   | 40   | 60    | V-6           | 2"BSP        |             | 630 | 588 | 528 | 450 | 372 |
| OSP-9/68(P4)50(6X6) | 30   | 40   | 68    | V-6           | 2"BSP        |             | 714 | 666 | 598 | 510 | 422 |

## Technical Data

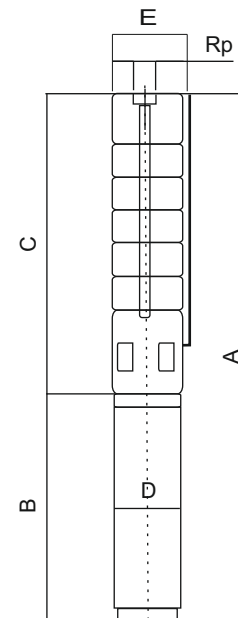
### Submersible Pump OSP-9

| PUMP MODEL          | STAGE | MOTOR         |              | PUMP   |     |     |        | MOTOR |
|---------------------|-------|---------------|--------------|--------|-----|-----|--------|-------|
|                     |       | JOINING MOTOR | POWER ( KW ) | Length |     |     | Weight | OD    |
|                     |       |               |              | C      | E*  | E** | Kg     | D     |
| OSP-9/1(P4)50(4X6)  | 1     | V-4           | 0.55         | 336    | 131 |     | 5.37   | 97    |
| OSP-9/2(P4)50(4X6)  | 2     | V-4           | 0.75         | 397    | 131 |     | 6.61   | 97    |
| OSP-9/3(P4)50(4X6)  | 3     | V-4           | 1.5          | 458    | 131 |     | 7.85   | 97    |
| OSP-9/4(P4)50(4X6)  | 4     | V-4           | 2.2          | 519    | 143 | 145 | 9.10   | 97    |
| OSP-9/5(P4)50(4X6)  | 5     | V-4           | 2.2          | 580    | 143 | 145 | 10.34  | 97    |
| OSP-9/6(P4)50(4X6)  | 6     | V-4           | 3.0          | 641    | 143 | 145 | 11.58  | 97    |
| OSP-9/7(P4)50(4X6)  | 7     | V-4           | 3.0          | 702    | 143 | 145 | 12.82  | 97    |
| OSP-9/8(P4)50(6X6)  | 8     | V-6           | 4.0          | 763    | 143 | 145 | 15.88  | 144   |
| OSP-9/9(P4)50(6X6)  | 9     | V-6           | 4.0          | 824    | 143 | 145 | 17.12  | 144   |
| OSP-9/10(P4)50(6X6) | 10    | V-6           | 4.5          | 885    | 143 | 145 | 18.36  | 144   |
| OSP-9/11(P4)50(6X6) | 11    | V-6           | 5.5          | 946    | 143 | 145 | 19.60  | 144   |
| OSP-9/12(P4)50(6X6) | 12    | V-6           | 5.5          | 1007   | 143 | 145 | 20.84  | 144   |
| OSP-9/13(P4)50(6X6) | 13    | V-6           | 5.5          | 1068   | 143 | 145 | 22.09  | 144   |
| OSP-9/14(P4)50(6X6) | 14    | V-6           | 7.5          | 1129   | 143 | 145 | 23.33  | 144   |
| OSP-9/15(P4)50(6X6) | 15    | V-6           | 7.5          | 1190   | 143 | 145 | 24.57  | 144   |
| OSP-9/16(P4)50(6X6) | 16    | V-6           | 7.5          | 1251   | 143 | 145 | 25.81  | 144   |
| OSP-9/17(P4)50(6X6) | 17    | V-6           | 7.5          | 1312   | 143 | 145 | 27.05  | 144   |
| OSP-9/18(P4)50(6X6) | 18    | V-6           | 7.5          | 1373   | 143 | 145 | 28.29  | 144   |
| OSP-9/19(P4)50(6X6) | 19    | V-6           | 9.3          | 1434   | 143 | 145 | 29.53  | 144   |
| OSP-9/20(P4)50(6X6) | 20    | V-6           | 9.3          | 1495   | 143 | 145 | 30.77  | 144   |
| OSP-9/21(P4)50(6X6) | 21    | V-6           | 9.3          | 1556   | 143 | 145 | 32.01  | 144   |
| OSP-9/22(P4)50(6X6) | 22    | V-6           | 9.3          | 1617   | 143 | 145 | 33.25  | 144   |
| OSP-9/23(P4)50(6X6) | 23    | V-6           | 11.0         | 1678   | 143 | 145 | 34.50  | 144   |
| OSP-9/24(P4)50(6X6) | 24    | V-6           | 11.0         | 1739   | 143 | 145 | 35.74  | 144   |
| OSP-9/25(P4)50(6X6) | 25    | V-6           | 11.0         | 1800   | 143 | 145 | 36.98  | 144   |
| OSP-9/26(P4)50(6X6) | 26    | V-6           | 11.0         | 1861   | 143 | 145 | 38.22  | 144   |
| OSP-9/27(P4)50(6X6) | 27    | V-6           | 13.0         | 1922   | 143 | 145 | 39.46  | 144   |
| OSP-9/28(P4)50(6X6) | 28    | V-6           | 13.0         | 1983   | 143 | 145 | 40.70  | 144   |
| OSP-9/29(P4)50(6X6) | 29    | V-6           | 13.0         | 2044   | 143 | 145 | 41.94  | 144   |
| OSP-9/30(P4)50(6X6) | 30    | V-6           | 13.0         | 2105   | 143 | 145 | 43.18  | 144   |
| OSP-9/31(P4)50(6X6) | 31    | V-6           | 13.0         | 2166   | 143 | 145 | 44.42  | 144   |
| OSP-9/32(P4)50(6X6) | 32    | V-6           | 15.0         | 2227   | 143 | 145 | 45.66  | 144   |
| OSP-9/33(P4)50(6X6) | 33    | V-6           | 15.0         | 2288   | 143 | 145 | 46.91  | 144   |
| OSP-9/34(P4)50(6X6) | 34    | V-6           | 15.0         | 2349   | 143 | 145 | 48.15  | 144   |
| OSP-9/35(P4)50(6X6) | 35    | V-6           | 15.0         | 2410   | 143 | 145 | 49.39  | 144   |
| OSP-9/36(P4)50(6X6) | 36    | V-6           | 15.0         | 2471   | 143 | 145 | 50.63  | 144   |
| OSP-9/37(P4)50(6X6) | 37    | V-6           | 18.5         | 2532   | 143 | 145 | 51.87  | 144   |
| OSP-9/38(P4)50(6X6) | 38    | V-6           | 18.5         | 2593   | 143 | 145 | 53.11  | 144   |
| OSP-9/39(P4)50(6X6) | 39    | V-6           | 18.5         | 2654   | 143 | 145 | 54.35  | 144   |
| OSP-9/40(P4)50(6X6) | 40    | V-6           | 18.5         | 2715   | 143 | 145 | 55.59  | 144   |
| OSP-9/41(P4)50(6X6) | 41    | V-6           | 18.5         | 2776   | 143 | 145 | 56.83  | 144   |
| OSP-9/42(P4)50(6X6) | 42    | V-6           | 18.5         | 2837   | 143 | 145 | 58.07  | 144   |
| OSP-9/43(P4)50(6X6) | 43    | V-6           | 18.5         | 2898   | 143 | 145 | 59.32  | 144   |
| OSP-9/44(P4)50(6X6) | 44    | V-6           | 18.5         | 2959   | 143 | 145 | 60.56  | 144   |

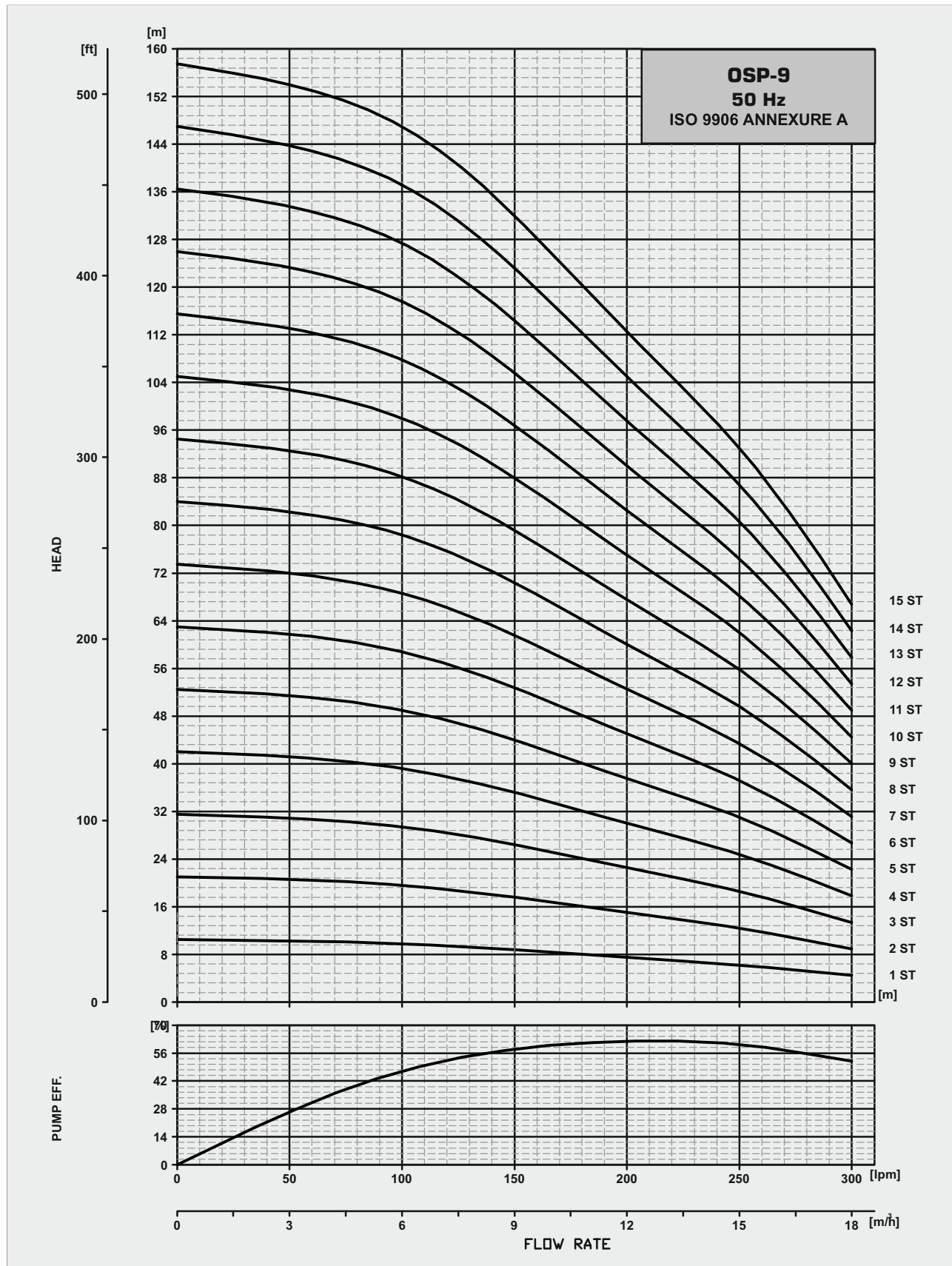
\* MAX.DIA OF PUMP WITH ONE MOTOR CABLE

\*\* MAX.DIA OF PUMP WITH TWO MOTOR CABLE

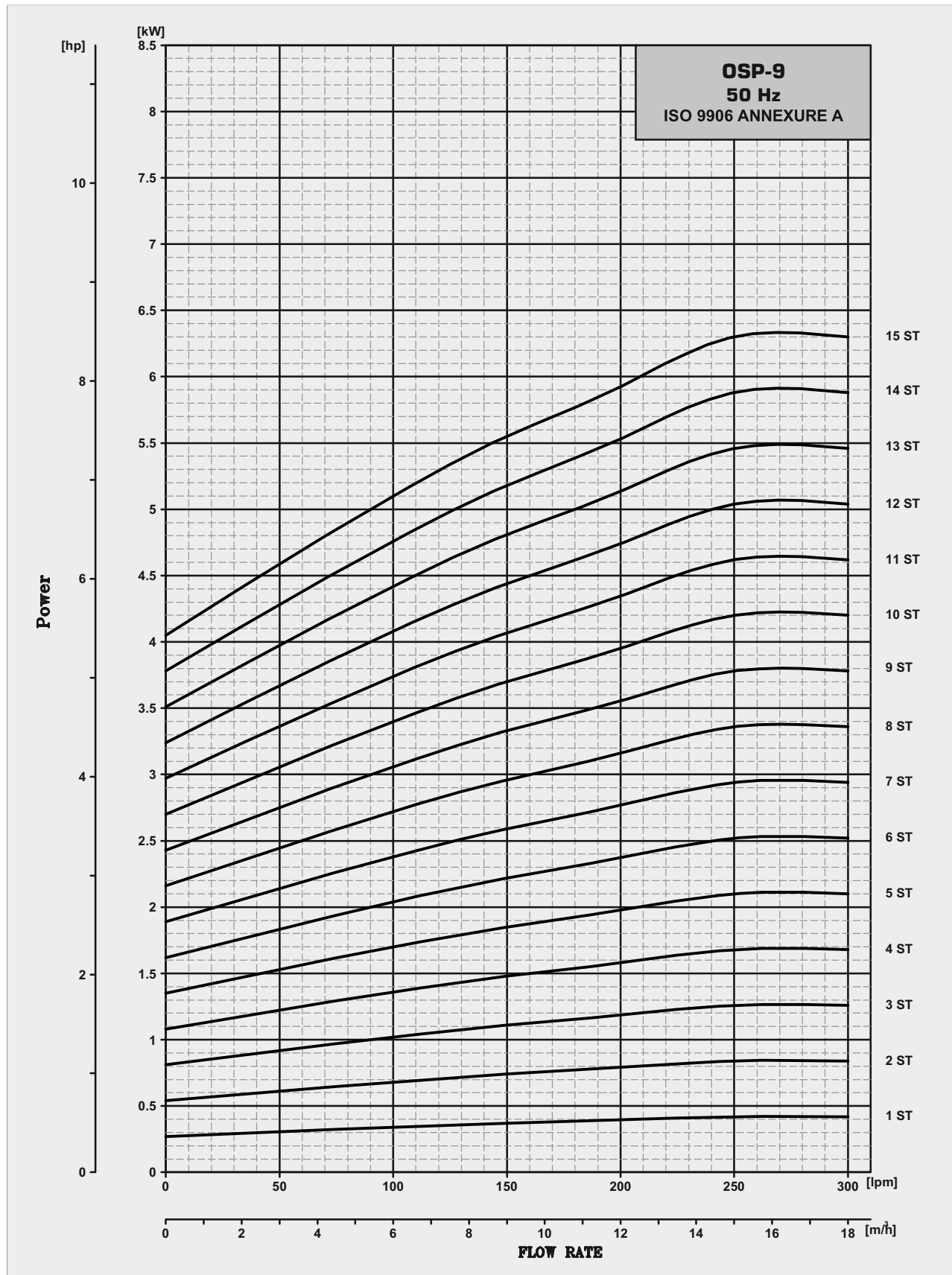
FIGURE



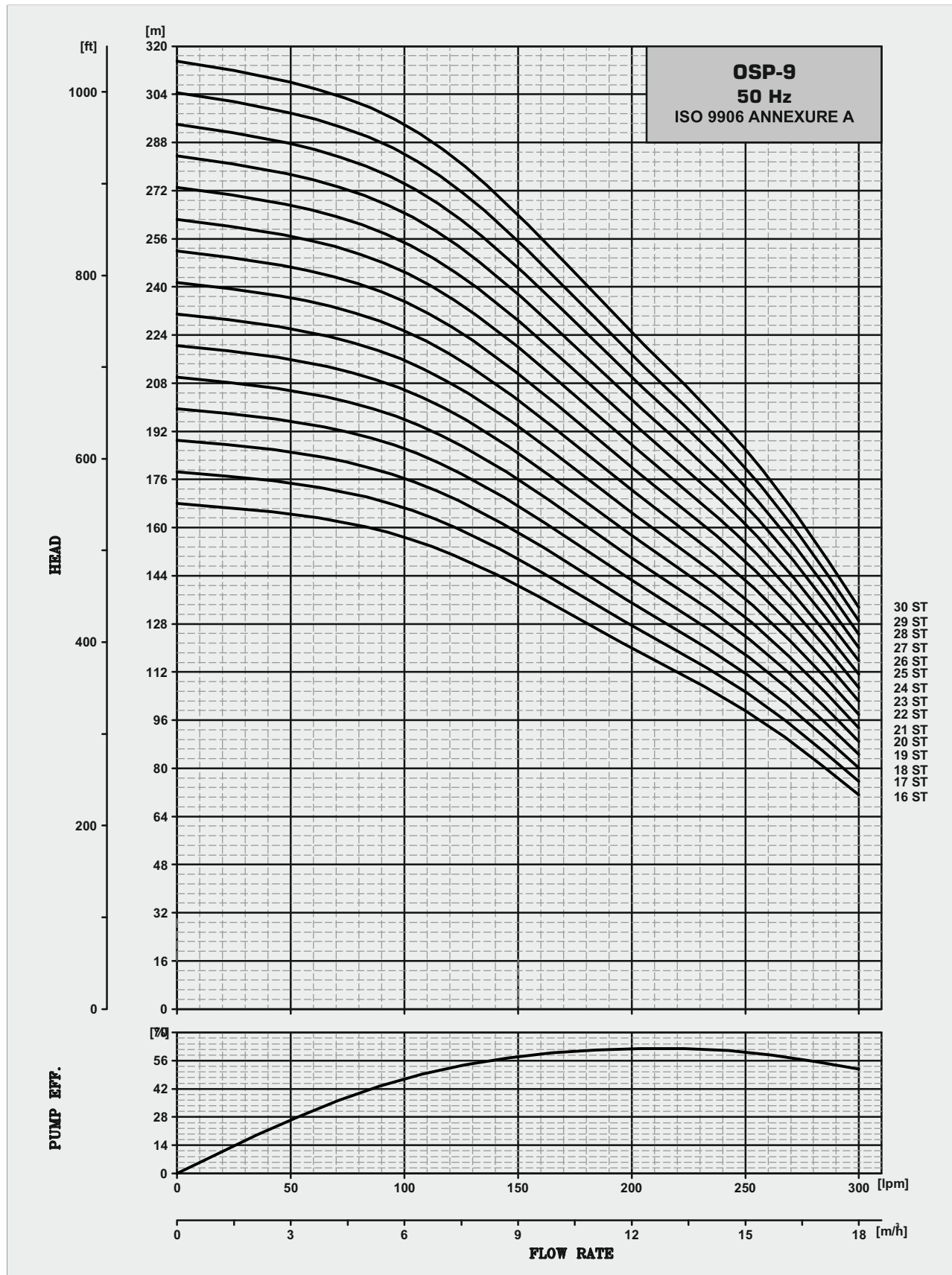
## Performance Curve



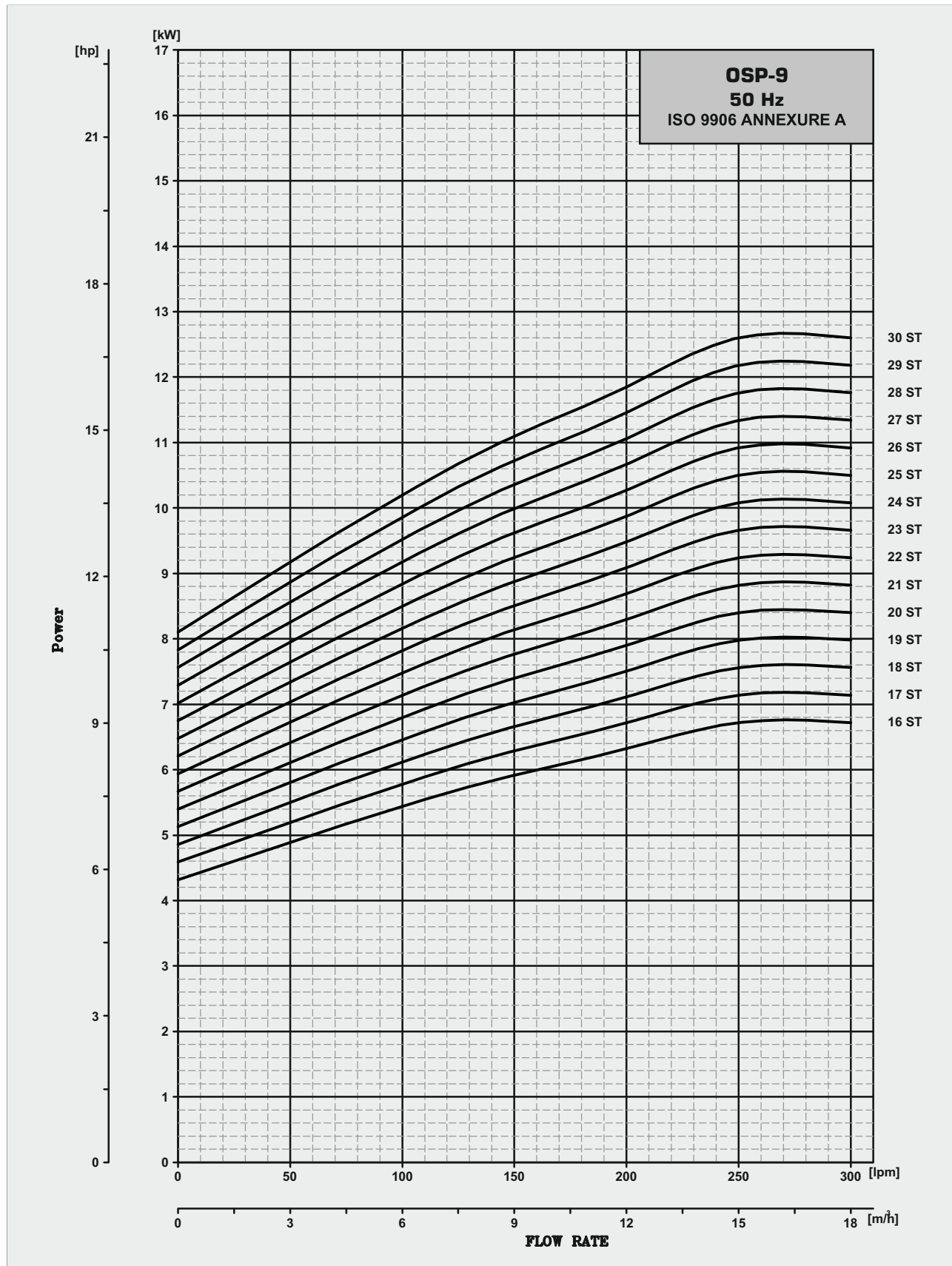
## Power Curve



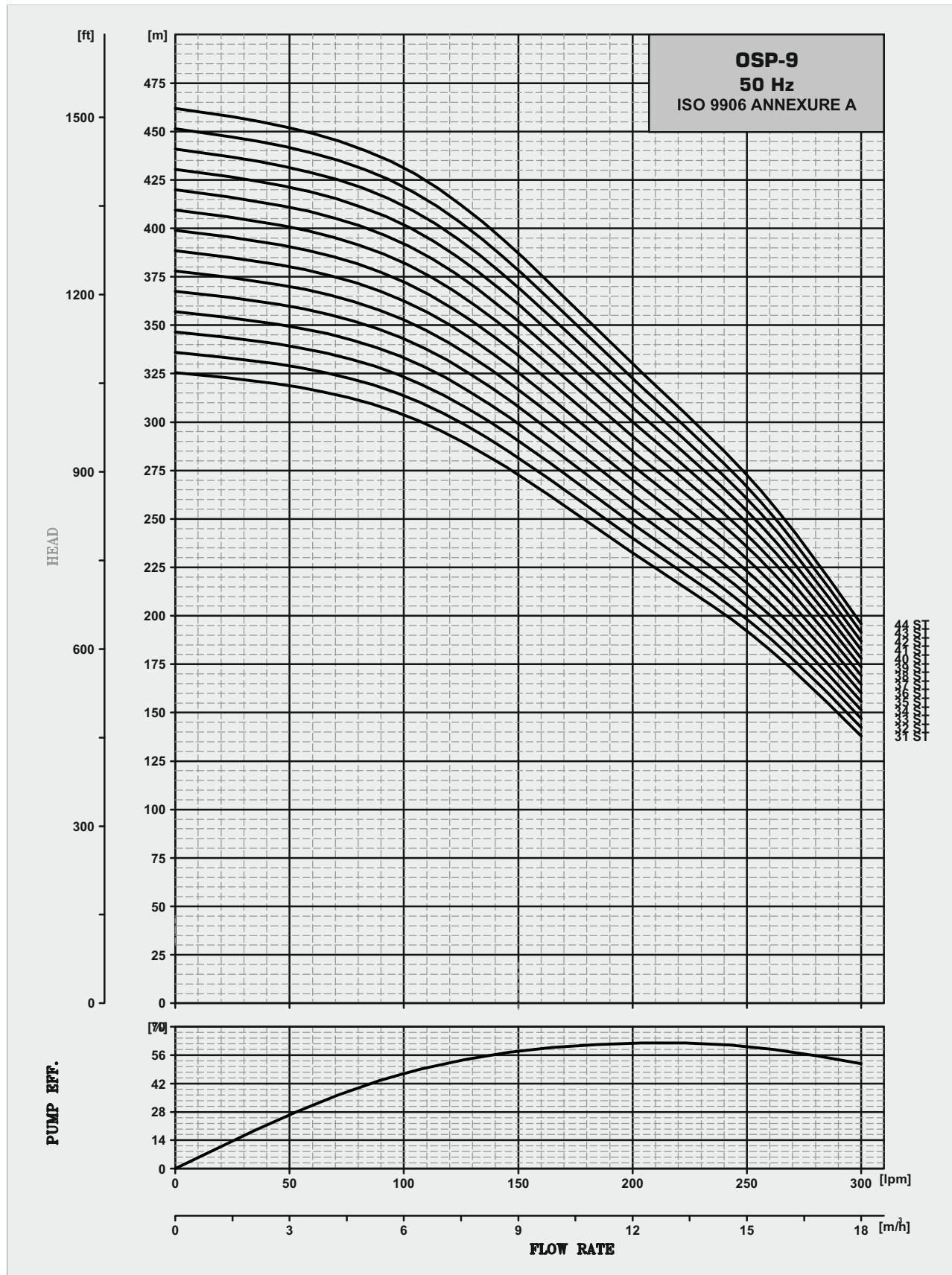
## Performance Curve



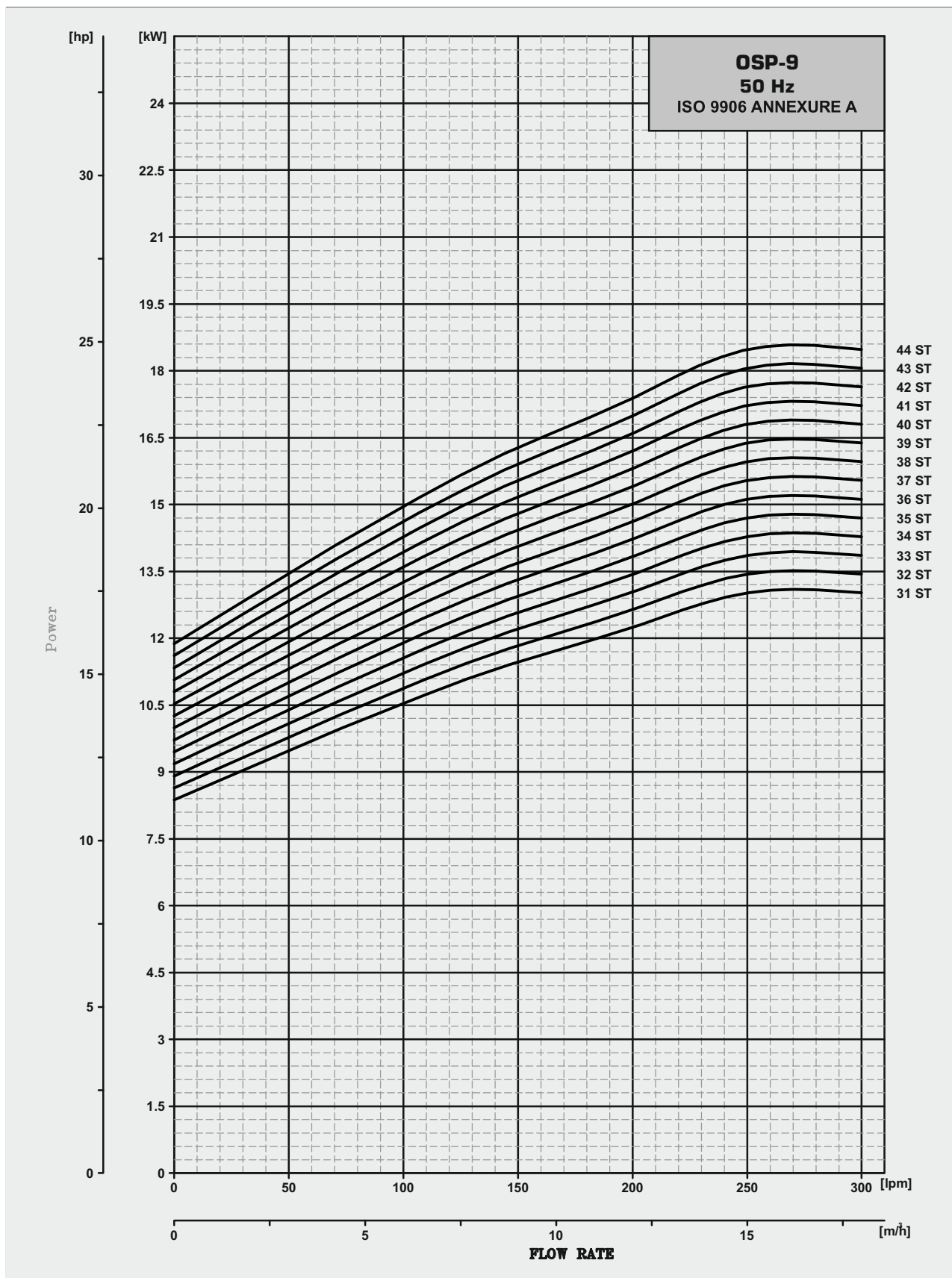
## Power Curves



## Performance Curves



## Power Curves



## Performance Table

### Submersible Pump OSP-12

| MODEL OSP-12          | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge         |      |     |     |     |     |     |
|-----------------------|------|------|-------|---------------|--------------|-------------------|------|-----|-----|-----|-----|-----|
|                       |      |      |       |               |              | M <sup>3</sup> /H | 0    | 6   | 9   | 12  | 15  | 18  |
|                       |      |      |       |               |              | (LPM)             | 0    | 100 | 150 | 200 | 250 | 300 |
| OSP-12/1(P4)50(4x6)   | 0.55 | 0.75 | 1     | V-4           | 2" BSP       | (HEAD (METERS))   | 10.5 | 10  | 9.5 | 8.5 | 7.5 | 5.7 |
| OSP-12/2(P4)50(4x6)   | 1.1  | 1.5  | 2     | V-4           | 2" BSP       |                   | 21   | 20  | 19  | 17  | 15  | 11  |
| OSP-12/3(P4)50(4x6)   | 1.5  | 2    | 3     | V-4           | 2" BSP       |                   | 32   | 30  | 29  | 26  | 23  | 17  |
| OSP-12/4(P4)50(4X6)   | 2.2  | 3    | 4     | V-4           | 2" BSP       |                   | 42   | 40  | 38  | 34  | 30  | 23  |
| OSP-12/5(P4)50(4X6)   | 3    | 4    | 5     | V-4           | 2" BSP       |                   | 53   | 50  | 48  | 43  | 38  | 29  |
| OSP-12/6(P4)50(4X6)   | 3    | 4    | 6     | V-4           | 2" BSP       |                   | 63   | 60  | 57  | 51  | 45  | 34  |
| OSP-12/7(P4)50(6X6)   | 4.0  | 5.5  | 7     | V-6           | 2" BSP       |                   | 74   | 70  | 67  | 60  | 53  | 40  |
| OSP-12/8(P4)50(6X6)   | 4.0  | 5.5  | 8     | V-6           | 2" BSP       |                   | 84   | 80  | 76  | 68  | 60  | 46  |
| OSP-12/9(P4)50(6X6)   | 4.0  | 5.5  | 9     | V-6           | 2" BSP       |                   | 95   | 90  | 86  | 77  | 68  | 51  |
| OSP-12/10(P4)50(6X6)  | 4.0  | 5.5  | 10    | V-6           | 2" BSP       |                   | 105  | 100 | 95  | 85  | 75  | 57  |
| OSP-12/11(P4)50(6X6)  | 5.5  | 7.5  | 11    | V-6           | 2" BSP       |                   | 116  | 110 | 105 | 94  | 83  | 63  |
| OSP-12/12(P4)50(6X6)  | 5.5  | 7.5  | 12    | V-6           | 2" BSP       |                   | 126  | 120 | 114 | 102 | 90  | 68  |
| OSP-12/13(P4)50(6X6)  | 7.5  | 10   | 13    | V-6           | 2" BSP       |                   | 137  | 130 | 124 | 111 | 98  | 74  |
| OSP-12/14(P4)50(6X6)  | 7.5  | 10   | 14    | V-6           | 2" BSP       |                   | 147  | 140 | 133 | 119 | 105 | 80  |
| OSP-12/15(P4)50(6X6)  | 7.5  | 10   | 15    | V-6           | 2" BSP       |                   | 158  | 150 | 143 | 128 | 113 | 86  |
| OSP-12/16(P4)50(6X6)  | 7.5  | 10   | 16    | V-6           | 2" BSP       |                   | 168  | 160 | 152 | 136 | 120 | 91  |
| OSP-12/17(P4)50(6X6)  | 9.3  | 12.5 | 17    | V-6           | 2" BSP       |                   | 179  | 170 | 162 | 145 | 128 | 97  |
| OSP-12/18(P4)50(6X6)  | 9.3  | 12.5 | 18    | V-6           | 2" BSP       |                   | 189  | 180 | 171 | 153 | 135 | 103 |
| OSP-12/19.(P4)50(6X6) | 9.3  | 12.5 | 19    | V-6           | 2" BSP       |                   | 200  | 190 | 181 | 162 | 143 | 108 |
| OSP-12/20(P4)50(6X6)  | 9.3  | 12.5 | 20    | V-6           | 2" BSP       |                   | 210  | 200 | 190 | 170 | 150 | 114 |
| OSP-12/21(P4)50(6X6)  | 11   | 15   | 21    | V-6           | 2" BSP       |                   | 221  | 210 | 200 | 179 | 158 | 120 |
| OSP-12/22(P4)50(6X6)  | 11   | 15   | 22    | V-6           | 2" BSP       |                   | 231  | 220 | 209 | 187 | 165 | 125 |
| OSP-12/23(P4)50(6X6)  | 11   | 15   | 23    | V-6           | 2" BSP       |                   | 242  | 230 | 219 | 196 | 173 | 131 |
| OSP-12/24(P4)50(6X6)  | 11   | 15   | 24    | V-6           | 2" BSP       |                   | 252  | 240 | 228 | 204 | 180 | 137 |
| OSP-12/25(P4)50(6X6)  | 13   | 17.5 | 25    | V-6           | 2" BSP       |                   | 263  | 250 | 238 | 213 | 188 | 143 |
| OSP-12/26(P4)50(6X6)  | 13   | 17.5 | 26    | V-6           | 2" BSP       |                   | 273  | 260 | 247 | 221 | 195 | 148 |
| OSP-12/27(P4)50(6X6)  | 13   | 17.5 | 27    | V-6           | 2" BSP       |                   | 284  | 270 | 257 | 230 | 203 | 154 |
| OSP-12/28(P4)50(6X6)  | 13   | 17.5 | 28    | V-6           | 2" BSP       |                   | 294  | 280 | 266 | 238 | 210 | 160 |
| OSP-12/30(P4)50(6X6)  | 11   | 20   | 30    | V-6           | 2" BSP       |                   | 315  | 300 | 285 | 255 | 225 | 171 |
| OSP-12/31(P4)50(6X6)  | 11   | 20   | 31    | V-6           | 2" BSP       |                   | 326  | 310 | 295 | 264 | 233 | 177 |
| OSP-12/32(P4)50(6X6)  | 11   | 20   | 32    | V-6           | 2" BSP       |                   | 336  | 320 | 304 | 272 | 240 | 182 |
| OSP-12/33(P4)50(6X6)  | 11   | 20   | 33    | V-6           | 2" BSP       |                   | 347  | 330 | 314 | 281 | 248 | 188 |
| OSP-12/34(P4)50(6X6)  | 18.5 | 25   | 34    | V-6           | 2" BSP       |                   | 357  | 340 | 323 | 289 | 255 | 194 |
| OSP-12/35(P4)50(6X6)  | 18.5 | 25   | 35    | V-6           | 2" BSP       |                   | 368  | 350 | 333 | 298 | 263 | 200 |
| OSP-12/36(P4)50(6X6)  | 18.5 | 25   | 36    | V-6           | 2" BSP       |                   | 378  | 360 | 342 | 306 | 270 | 205 |
| OSP-12/37(P4)50(6X6)  | 18.5 | 25   | 37    | V-6           | 2" BSP       |                   | 389  | 370 | 352 | 315 | 278 | 211 |
| OSP-12/38(P4)50(6X6)  | 18.5 | 25   | 38    | V-6           | 2" BSP       |                   | 399  | 380 | 361 | 323 | 285 | 217 |
| OSP-12/39(P4)50(6X6)  | 18.5 | 25   | 39    | V-6           | 2" BSP       |                   | 410  | 390 | 371 | 332 | 293 | 222 |
| OSP-12/40(P4)50(6X6)  | 18.5 | 25   | 40    | V-6           | 2" BSP       |                   | 420  | 400 | 380 | 340 | 300 | 228 |
| OSP-12/41(P4)50(6X6)  | 22   | 30   | 41    | V-6           | 2" BSP       |                   | 431  | 410 | 390 | 349 | 308 | 234 |
| OSP-12/42(P4)50(6X6)  | 22   | 30   | 42    | V-6           | 2" BSP       |                   | 441  | 420 | 399 | 357 | 315 | 239 |
| OSP-12/43(P4)50(6X6)  | 22   | 30   | 43    | V-6           | 2" BSP       |                   | 452  | 430 | 409 | 366 | 323 | 245 |
| OSP-12/44(P4)50(6X6)  | 22   | 30   | 44    | V-6           | 2" BSP       |                   | 462  | 440 | 418 | 374 | 330 | 251 |

## Performance Table

### Submersible Pump OSP-12

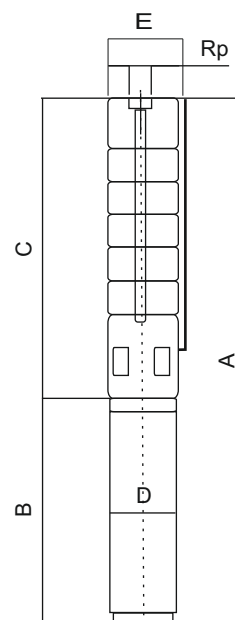
| MODEL OSP-12          | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge  |     |     |     |     |     |     |
|-----------------------|------|------|-------|---------------|--------------|------------|-----|-----|-----|-----|-----|-----|
|                       |      |      |       |               |              | M³/H (LPM) | 0   | 6   | 9   | 12  | 15  | 18  |
|                       |      |      |       |               |              |            | 0   | 100 | 150 | 200 | 250 | 300 |
| OSP-12/45(P4)50(6X6)  | 22   | 30   | 45    | V-6           | 2" BSP"      |            | 473 | 450 | 428 | 383 | 338 | 257 |
| OSP-12/49(P4)50(6X6)  | 30   | 40   | 49    | V-6           | 2" BSP"      |            | 515 | 490 | 466 | 417 | 368 | 279 |
| OSP-12/53(P4)50(6X6)  | 30   | 40   | 53    | V-6           | 2" BSP"      |            | 557 | 530 | 504 | 451 | 398 | 302 |
| OSP-12/60(P4)50(8X6)  | 30   | 40   | 60    | V-8           | 2" BSP"      |            | 630 | 600 | 570 | 510 | 450 | 342 |
| OSP-12/72(P4)50(8X6)  | 37   | 50   | 72    | V-8           | 2" BSP"      |            | 756 | 720 | 684 | 612 | 540 | 410 |
| OSP-12/80(P4)50(6X6)  | 37   | 50   | 80    | V-6           | 2" BSP"      |            | 840 | 800 | 760 | 680 | 600 | 456 |
| OSP-12/85(P4)50(8X6)S | 45   | 60   | 85    | V-8           | 2" BSP"      |            | 893 | 850 | 808 | 723 | 638 | 485 |
| OSP-12/90(P4)50(8X6)S | 45   | 60   | 90    | V-8           | 2" BSP"      |            | 945 | 900 | 855 | 765 | 675 | 513 |

## Technical Data

## Submersible Pump OSP-12

| PUMP MODEL           | STAGE | MOTOR         |              | PUMP   |     |     |        | MOTOR |
|----------------------|-------|---------------|--------------|--------|-----|-----|--------|-------|
|                      |       | JOINING MOTOR | POWER ( KW ) | Length |     |     | Weight | OD    |
|                      |       |               |              | C      | E*  | E** | Kg     | D     |
| OSP-12/1(P4)50(4x6)  | 1     | V-4           | 0.55         | 336    | 131 |     | 5.37   | 97    |
| OSP-12/2(P4)50(4x6)  | 2     | V-4           | 1.1          | 397    | 131 |     | 6.61   | 97    |
| OSP-12/3(P4)50(4x6)  | 3     | V-4           | 1.5          | 458    | 131 |     | 7.85   | 97    |
| OSP-12/4(P4)50(4x6)  | 4     | V-4           | 2.2          | 519    | 143 | 145 | 9.10   | 97    |
| OSP-12/5(P4)50(4x6)  | 5     | V-4           | 3            | 580    | 143 | 145 | 10.34  | 97    |
| OSP-12/6(P4)50(4x6)  | 6     | V-4           | 3            | 641    | 143 | 145 | 11.58  | 97    |
| OSP-12/7(P4)50(6x6)  | 7     | V-6           | 4.0          | 702    | 143 | 145 | 14.64  | 144   |
| OSP-12/8(P4)50(6x6)  | 8     | V-6           | 4.0          | 763    | 143 | 145 | 15.88  | 144   |
| OSP-12/9(P4)50(6x6)  | 9     | V-6           | 4.0          | 824    | 143 | 145 | 17.12  | 144   |
| OSP-12/10(P4)50(6x6) | 10    | V-6           | 4.0          | 885    | 143 | 145 | 18.36  | 144   |
| OSP-12/11(P4)50(6x6) | 11    | V-6           | 5.5          | 946    | 143 | 145 | 19.60  | 144   |
| OSP-12/12(P4)50(6x6) | 12    | V-6           | 5.5          | 1007   | 143 | 145 | 20.84  | 144   |
| OSP-12/13(P4)50(6x6) | 13    | V-6           | 7.5          | 1068   | 143 | 145 | 22.09  | 144   |
| OSP-12/14(P4)50(6x6) | 14    | V-6           | 7.5          | 1129   | 143 | 145 | 23.33  | 144   |
| OSP-12/15(P4)50(6x6) | 15    | V-6           | 7.5          | 1190   | 143 | 145 | 24.57  | 144   |
| OSP-12/16(P4)50(6x6) | 16    | V-6           | 7.5          | 1251   | 143 | 145 | 25.81  | 144   |
| OSP-12/17(P4)50(6x6) | 17    | V-6           | 9.3          | 1312   | 143 | 145 | 27.05  | 144   |
| OSP-12/18(P4)50(6x6) | 18    | V-6           | 9.3          | 1373   | 143 | 145 | 28.29  | 144   |
| OSP-12/19(P4)50(6x6) | 19    | V-6           | 9.3          | 1434   | 143 | 145 | 29.53  | 144   |
| OSP-12/20(P4)50(6x6) | 20    | V-6           | 9.3          | 1495   | 143 | 145 | 30.77  | 144   |
| OSP-12/21(P4)50(6x6) | 21    | V-6           | 11           | 1556   | 143 | 145 | 32.01  | 144   |
| OSP-12/22(P4)50(6x6) | 22    | V-6           | 11           | 1617   | 143 | 145 | 33.25  | 144   |
| OSP-12/23(P4)50(6x6) | 23    | V-6           | 11           | 1678   | 143 | 145 | 34.50  | 144   |
| OSP-12/24(P4)50(6x6) | 24    | V-6           | 11           | 1739   | 143 | 145 | 35.74  | 144   |
| OSP-12/25(P4)50(6x6) | 25    | V-6           | 13           | 1800   | 143 | 145 | 36.98  | 144   |
| OSP-12/26(P4)50(6x6) | 26    | V-6           | 13           | 1861   | 143 | 145 | 38.22  | 144   |
| OSP-12/27(P4)50(6x6) | 27    | V-6           | 13           | 1922   | 143 | 145 | 39.46  | 144   |
| OSP-12/28(P4)50(6x6) | 28    | V-6           | 13           | 1983   | 143 | 145 | 40.70  | 144   |
| OSP-12/30(P4)50(6x6) | 30    | V-6           | 11           | 2105   | 143 | 145 | 43.18  | 144   |
| OSP-12/31(P4)50(6x6) | 31    | V-6           | 11           | 2166   | 143 | 145 | 44.42  | 144   |
| OSP-12/32(P4)50(6x6) | 32    | V-6           | 11           | 2227   | 143 | 145 | 45.66  | 144   |
| OSP-12/33(P4)50(6x6) | 33    | V-6           | 11           | 2288   | 143 | 145 | 46.91  | 144   |
| OSP-12/34(P4)50(6x6) | 34    | V-6           | 18.5         | 2349   | 143 | 145 | 48.15  | 144   |
| OSP-12/35(P4)50(6x6) | 35    | V-6           | 18.5         | 2410   | 143 | 145 | 49.39  | 144   |
| OSP-12/36(P4)50(6x6) | 36    | V-6           | 18.5         | 2471   | 143 | 145 | 50.63  | 144   |
| OSP-12/37(P4)50(6x6) | 37    | V-6           | 18.5         | 2532   | 143 | 145 | 51.87  | 144   |
| OSP-12/38(P4)50(6x6) | 38    | V-6           | 18.5         | 2593   | 143 | 145 | 53.11  | 144   |
| OSP-12/39(P4)50(6x6) | 39    | V-6           | 18.5         | 2654   | 143 | 145 | 54.35  | 144   |
| OSP-12/40(P4)50(6x6) | 40    | V-6           | 18.5         | 2715   | 143 | 145 | 55.59  | 144   |
| OSP-12/41(P4)50(6x6) | 41    | V-6           | 22           | 2776   | 143 | 145 | 56.83  | 144   |
| OSP-12/42(P4)50(6x6) | 42    | V-6           | 22           | 2837   | 143 | 145 | 58.07  | 144   |
| OSP-12/43(P4)50(6x6) | 43    | V-6           | 22           | 2898   | 143 | 145 | 59.32  | 144   |
| OSP-12/44(P4)50(6x6) | 44    | V-6           | 22           | 2959   | 143 | 145 | 60.56  | 144   |

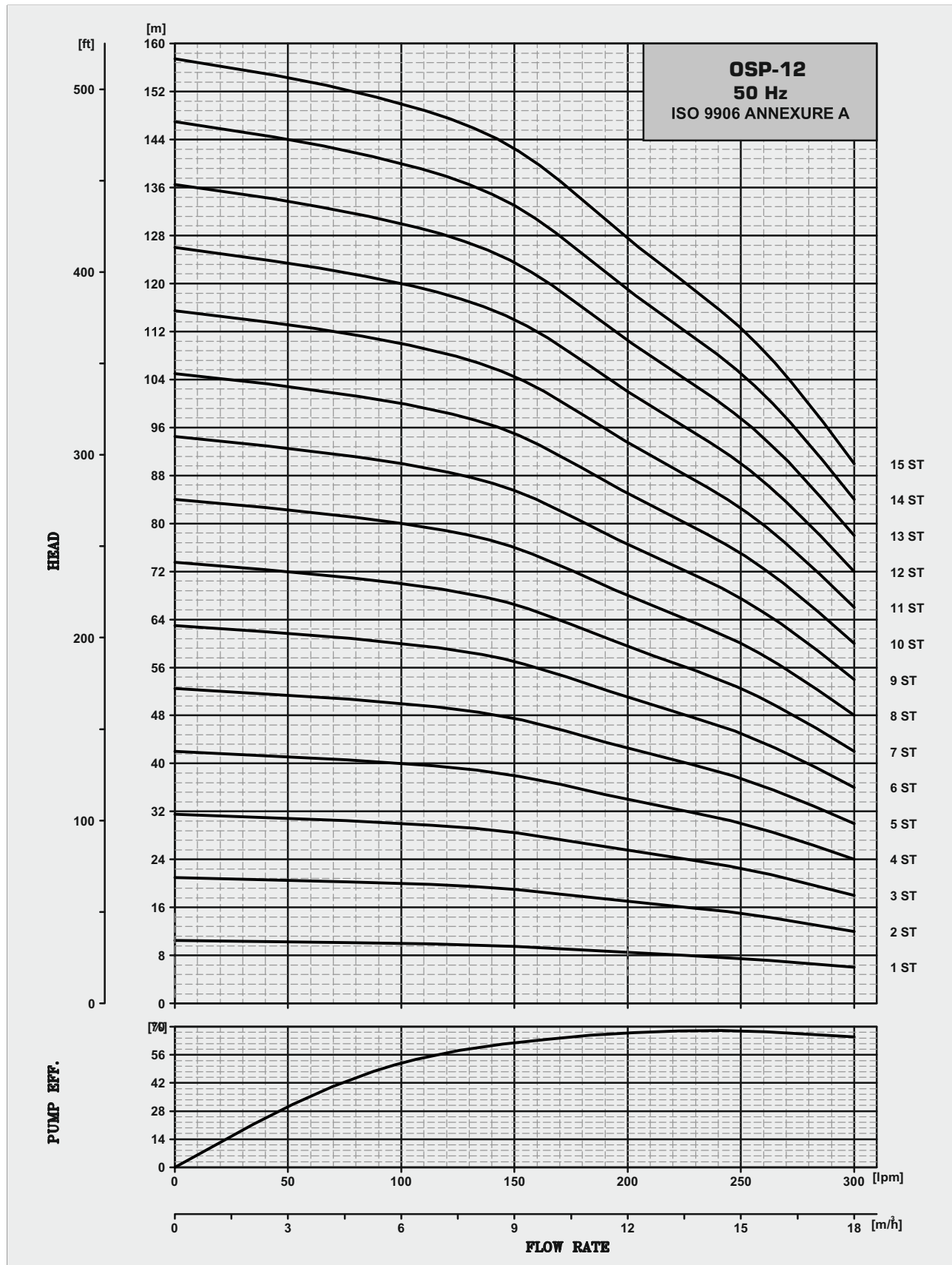
FIGURE



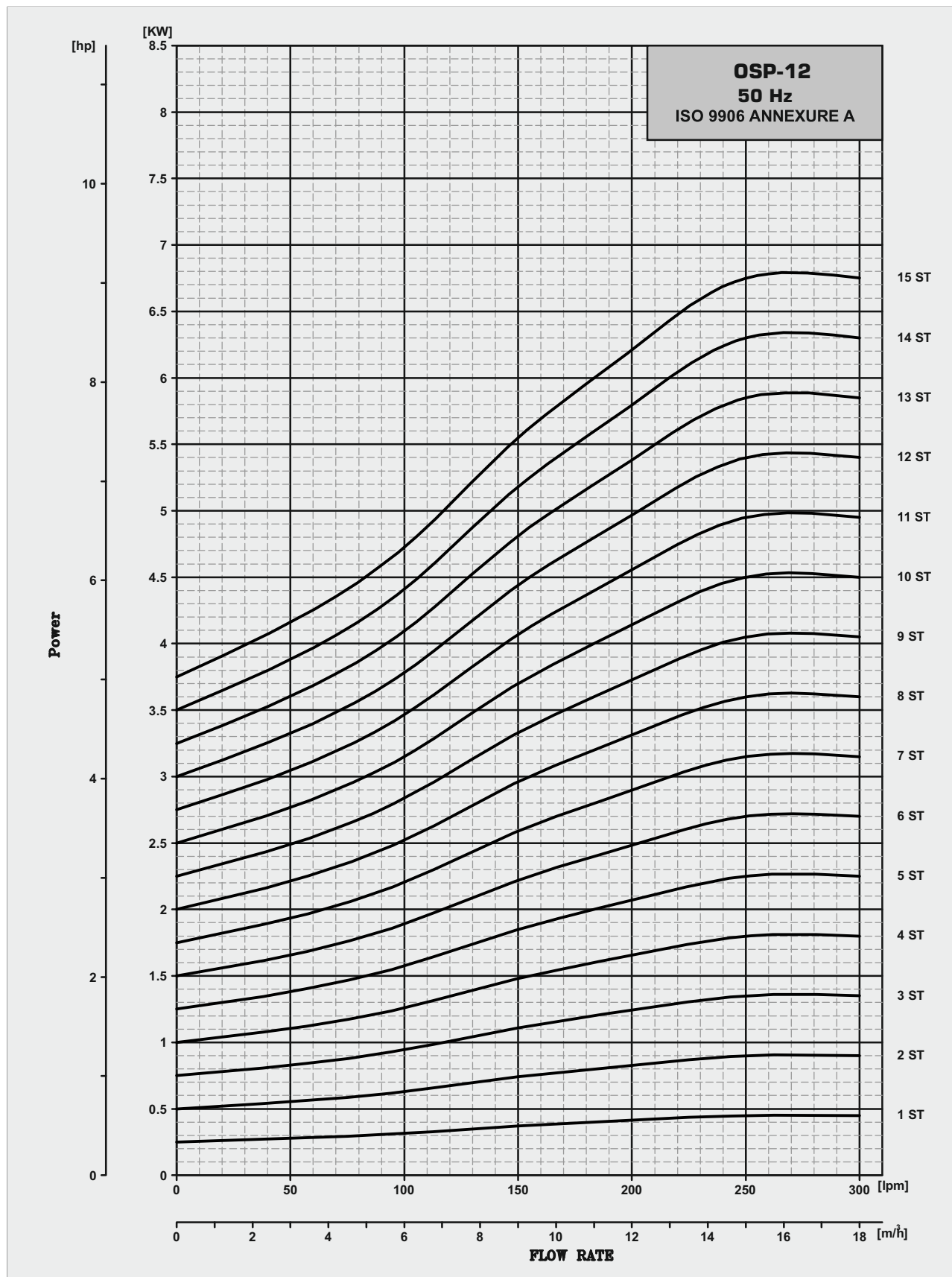
\* MAX.DIA OF PUMP WITH ONE MOTOR CABLE

\*\* MAX.DIA OF PUMP WITH TWO MOTOR CABLE

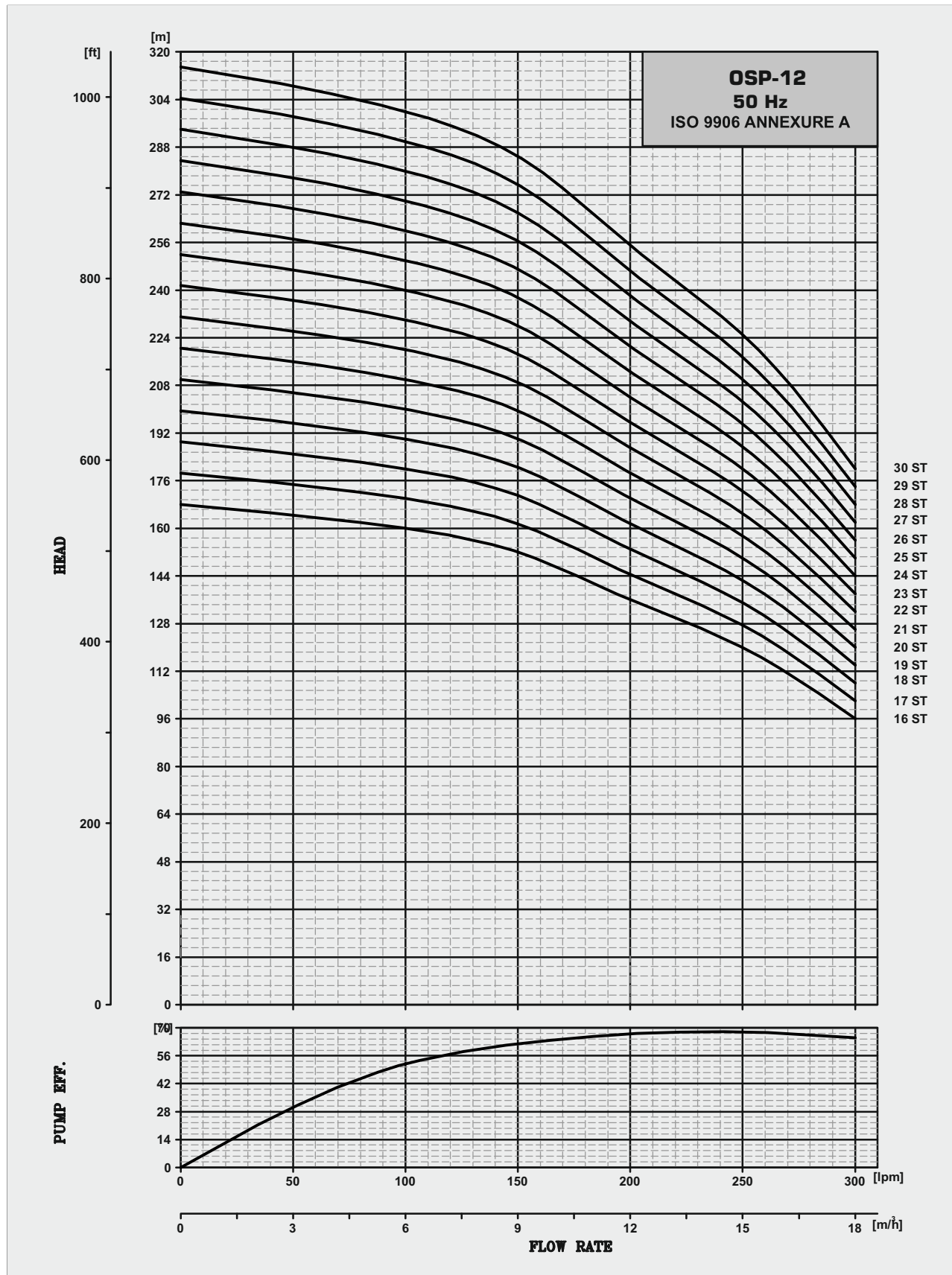
## Performance Curves



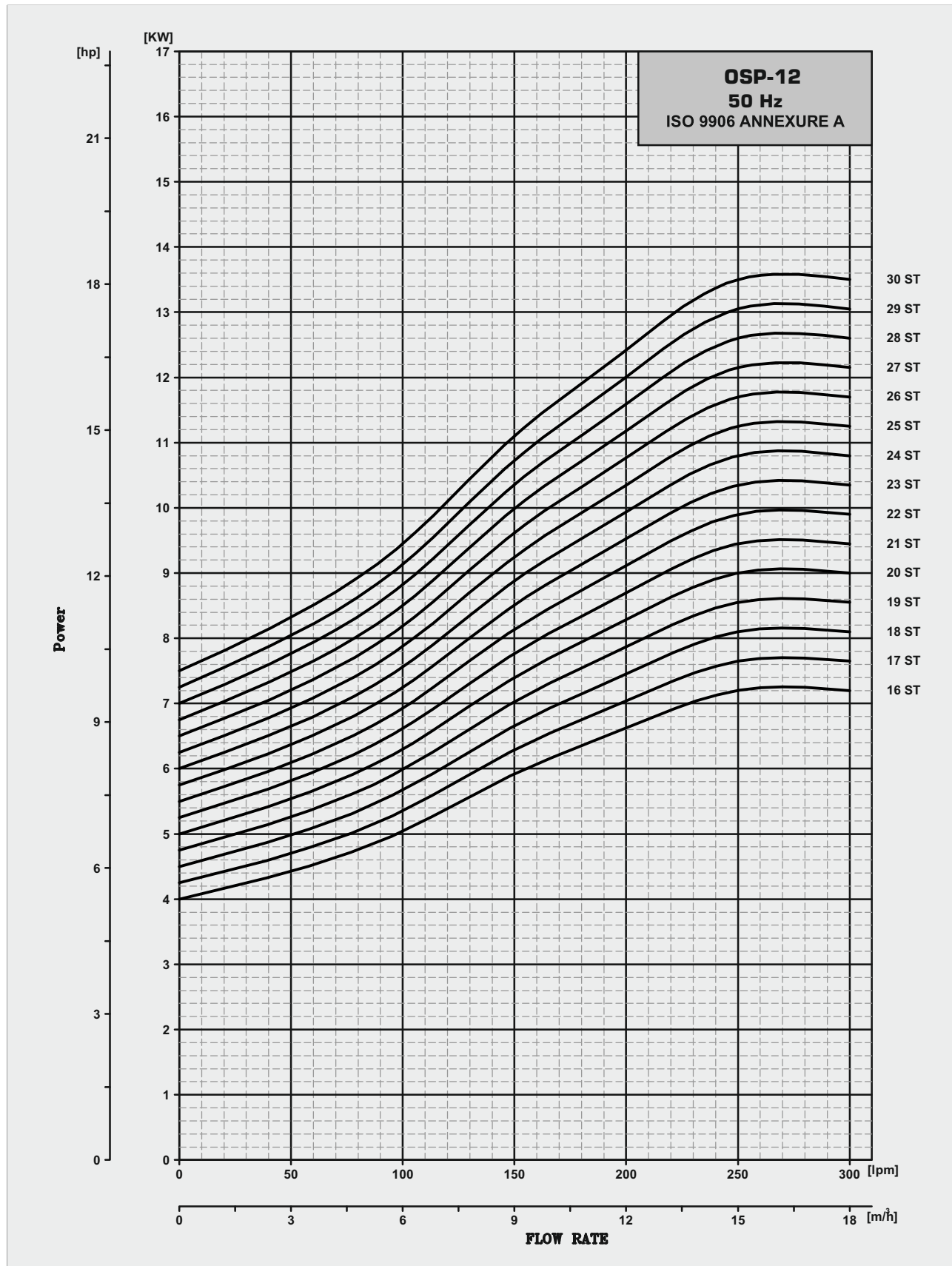
## Power Curves



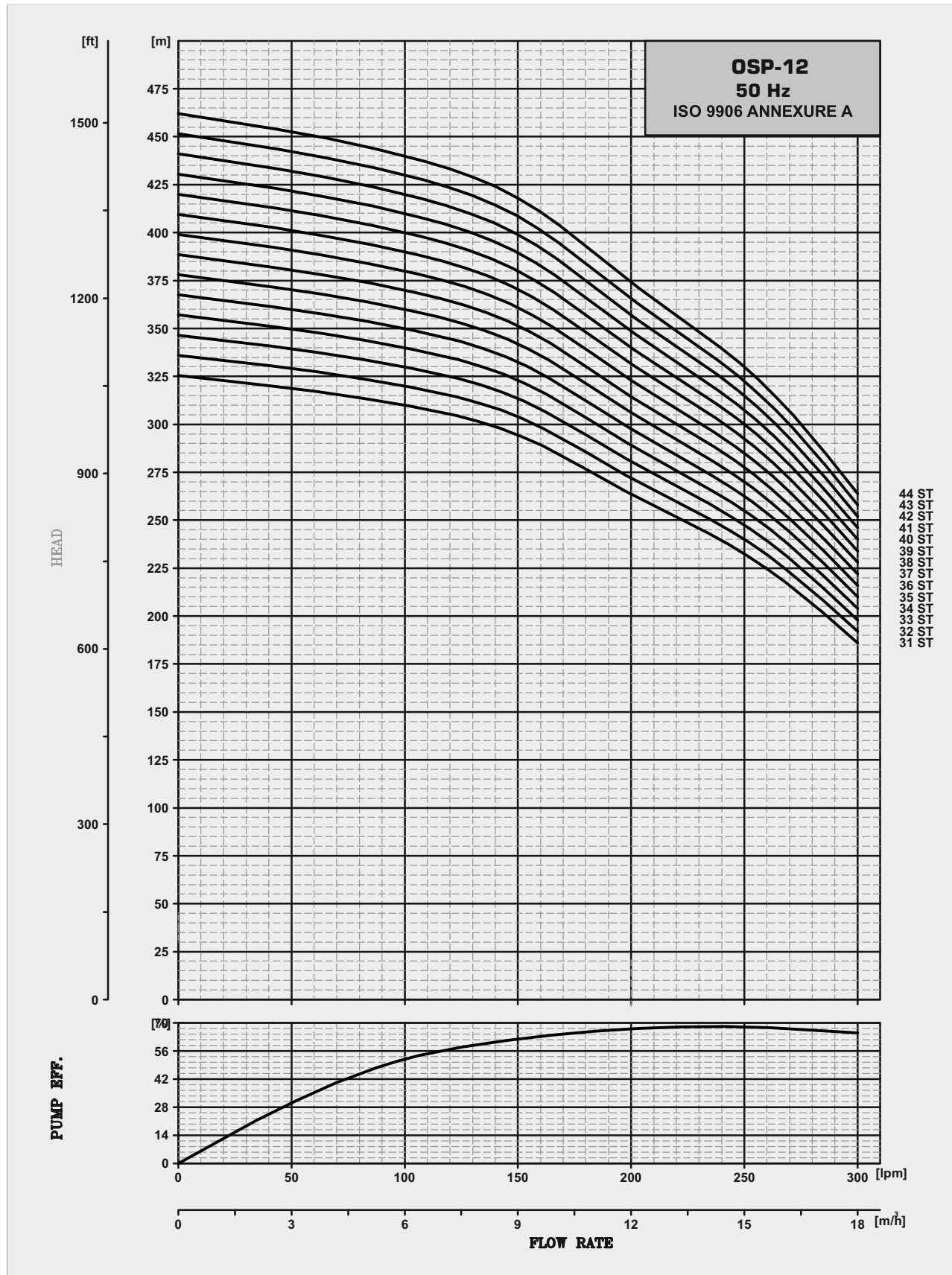
## Performance Curves



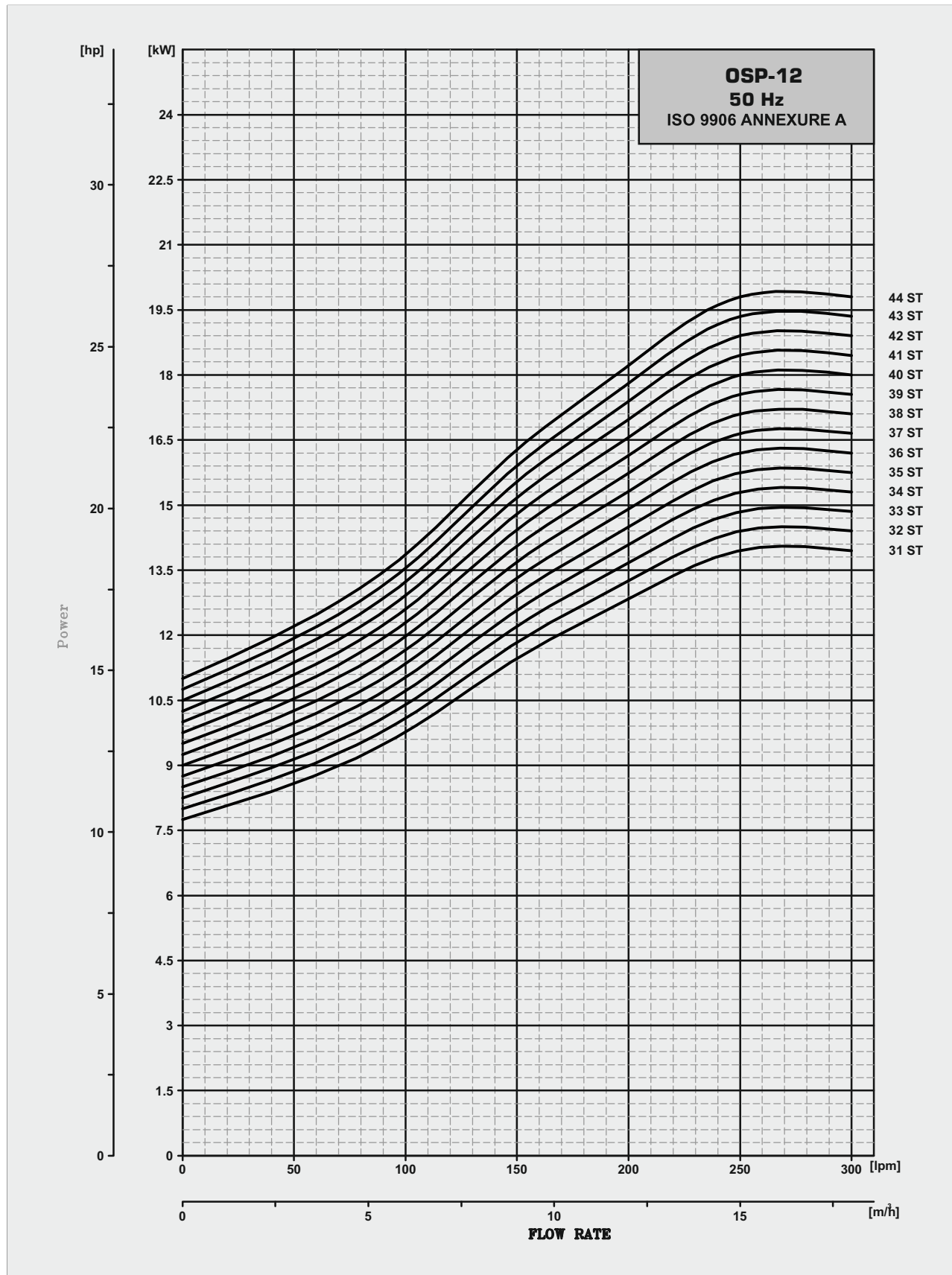
## Power Curves



## Performance Curves



## Power Curves



## Performance Table Submersible Pump OSP-17

| MODEL OSP-17         | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge       |      |     |     |     |     |     |
|----------------------|------|------|-------|---------------|--------------|-----------------|------|-----|-----|-----|-----|-----|
|                      |      |      |       |               |              | M³/H            | 0    | 6   | 12  | 15  | 18  | 21  |
|                      |      |      |       |               |              | (LPM)           | 0    | 100 | 200 | 250 | 300 | 350 |
| OSP-17/1(P4)50(4X6)  | 0.55 | 0.75 | 1     | V-4           | 2½ BSP       | (HEAD (METERS)) | 11.2 | 11  | 9.8 | 8.8 | 7.4 | 5.7 |
| OSP-17/2(P4)50(4X6)  | 1.1  | 1.5  | 2     | V-4           | 2½ BSP       |                 | 22   | 22  | 20  | 18  | 15  | 11  |
| OSP-17/3(P4)50(4X6)  | 2.2  | 3    | 3     | V-4           | 2½ BSP       |                 | 34   | 33  | 29  | 26  | 22  | 17  |
| OSP-17/4(P4)50(4X6)  | 2.2  | 3    | 4     | V-4           | 2½ BSP       |                 | 45   | 44  | 39  | 35  | 30  | 23  |
| OSP-17/5(P4)50(4X6)  | 3    | 4    | 5     | V-4           | 2½ BSP       |                 | 56   | 55  | 49  | 44  | 37  | 29  |
| OSP-17/6(P4)50(6X6)  | 3.7  | 5    | 6     | V-6           | 2½ BSP       |                 | 67   | 66  | 59  | 53  | 44  | 34  |
| OSP-17/7(P4)50(6X6)  | 4.0  | 5.5  | 7     | V-6           | 2½ BSP       |                 | 78   | 77  | 69  | 62  | 52  | 40  |
| OSP-17/8.(P4)50(6X6) | 5.5  | 7.5  | 8     | V-6           | 2½ BSP       |                 | 90   | 88  | 78  | 70  | 59  | 46  |
| OSP-17/9(P4)50(6X6)  | 5.5  | 7.5  | 9     | V-6           | 2½ BSP       |                 | 101  | 99  | 88  | 79  | 67  | 51  |
| OSP-17/10(P4)50(6X6) | 5.5  | 7.5  | 10    | V-6           | 2½ BSP       |                 | 112  | 110 | 98  | 88  | 74  | 57  |
| OSP-17/11(P4)50(6X6) | 7.5  | 10   | 11    | V-6           | 2½ BSP       |                 | 123  | 121 | 108 | 97  | 81  | 63  |
| OSP-17/12(P4)50(6X6) | 7.5  | 10   | 12    | V-6           | 2½ BSP       |                 | 134  | 132 | 118 | 106 | 89  | 68  |
| OSP-17/13(P4)50(6X6) | 7.5  | 10   | 13    | V-6           | 2½ BSP       |                 | 146  | 143 | 127 | 114 | 96  | 74  |
| OSP-17/14(P4)50(6X6) | 9.3  | 12.5 | 14    | V-6           | 2½ BSP       |                 | 157  | 154 | 137 | 123 | 104 | 80  |
| OSP-17/15(P4)50(6X6) | 9.3  | 12.5 | 15    | V-6           | 2½ BSP       |                 | 168  | 165 | 147 | 132 | 111 | 86  |
| OSP-17/16(P4)50(6X6) | 9.3  | 12.5 | 16    | V-6           | 2½ BSP       |                 | 179  | 176 | 157 | 141 | 118 | 91  |
| OSP-17/17(P4)50(6X6) | 9.3  | 12.5 | 17    | V-6           | 2½ BSP       |                 | 190  | 187 | 167 | 150 | 126 | 97  |
| OSP-17/18(P4)50(6X6) | 11   | 15   | 18    | V-6           | 2½ BSP       |                 | 202  | 198 | 176 | 158 | 133 | 103 |
| OSP-17/19(P4)50(6X6) | 11   | 15   | 19    | V-6           | 2½ BSP       |                 | 213  | 209 | 186 | 167 | 141 | 108 |
| OSP-17/20(P4)50(6X6) | 11   | 15   | 20    | V-6           | 2½ BSP       |                 | 224  | 220 | 196 | 176 | 148 | 114 |
| OSP-17/21(P4)50(6X6) | 13   | 17.5 | 21    | V-6           | 2½ BSP       |                 | 235  | 231 | 206 | 185 | 155 | 120 |
| OSP-17/22(P4)50(6X6) | 13   | 17.5 | 22    | V-6           | 2½ BSP       |                 | 246  | 242 | 216 | 194 | 163 | 125 |
| OSP-17/23(P4)50(6X6) | 13   | 17.5 | 23    | V-6           | 2½ BSP       |                 | 258  | 253 | 225 | 202 | 170 | 131 |
| OSP-17/24(P4)50(6X6) | 13   | 17.5 | 24    | V-6           | 2½ BSP       |                 | 269  | 264 | 235 | 211 | 178 | 137 |
| OSP-17/25(P4)50(6X6) | 15   | 20   | 25    | V-6           | 2½ BSP       |                 | 280  | 275 | 245 | 220 | 185 | 143 |
| OSP-17/26(P4)50(6X6) | 15   | 20   | 26    | V-6           | 2½ BSP       |                 | 291  | 286 | 255 | 229 | 192 | 148 |
| OSP-17/27(P4)50(6X6) | 15   | 20   | 27    | V-6           | 2½ BSP       |                 | 302  | 297 | 265 | 238 | 200 | 154 |
| OSP-17/28(P4)50(6X6) | 18.5 | 25   | 28    | V-6           | 2½ BSP       |                 | 314  | 308 | 274 | 246 | 207 | 160 |
| OSP-17/29(P4)50(6X6) | 18.5 | 25   | 29    | V-6           | 2½ BSP       |                 | 325  | 319 | 284 | 255 | 215 | 165 |
| OSP-17/30(P4)50(6X6) | 18.5 | 25   | 30    | V-6           | 2½ BSP       |                 | 336  | 330 | 294 | 264 | 222 | 171 |
| OSP-17/31(P4)50(6X6) | 18.5 | 25   | 31    | V-6           | 2½ BSP       |                 | 347  | 341 | 304 | 273 | 229 | 177 |
| OSP-17/32(P4)50(6X6) | 18.5 | 25   | 32    | V-6           | 2½ BSP       |                 | 358  | 352 | 314 | 282 | 237 | 182 |
| OSP-17/33(P4)50(6X6) | 18.5 | 25   | 33    | V-6           | 2½ BSP       |                 | 370  | 363 | 323 | 290 | 244 | 188 |
| OSP-17/34(P4)50(6X6) | 22   | 30   | 34    | V-6           | 2½ BSP       |                 | 381  | 374 | 333 | 299 | 252 | 194 |
| OSP-17/35(P4)50(6X6) | 22   | 30   | 35    | V-6           | 2½ BSP       |                 | 392  | 385 | 343 | 308 | 259 | 200 |
| OSP-17/36(P4)50(6X6) | 22   | 30   | 36    | V-6           | 2½ BSP       |                 | 403  | 396 | 353 | 317 | 266 | 205 |
| OSP-17/37(P4)50(6X6) | 22   | 30   | 37    | V-6           | 2½ BSP       |                 | 414  | 407 | 363 | 326 | 274 | 211 |
| OSP-17/38(P4)50(6X6) | 22   | 30   | 38    | V-6           | 2½ BSP       |                 | 426  | 418 | 372 | 334 | 281 | 217 |
| OSP-17/39(P4)50(6X6) | 22   | 30   | 39    | V-6           | 2½ BSP       |                 | 437  | 429 | 382 | 343 | 289 | 222 |
| OSP-17/40(P4)50(6X6) | 22   | 30   | 40    | V-6           | 2½ BSP       |                 | 448  | 440 | 392 | 352 | 296 | 228 |
| OSP-17/43(P4)50(6X6) | 26   | 35   | 43    | V-6           | 2½ BSP       |                 | 482  | 473 | 421 | 378 | 318 | 245 |
| OSP-17/45(P4)50(6X6) | 26   | 35   | 45    | V-6           | 2½ BSP       |                 | 504  | 495 | 441 | 396 | 333 | 257 |
| OSP-17/48(P4)50(6X6) | 30   | 40   | 48    | V-6           | 2½ BSP       |                 | 538  | 528 | 470 | 422 | 355 | 274 |
| OSP-17/51(P4)50(6X6) | 30   | 40   | 51    | V-6           | 2½ BSP       |                 | 571  | 561 | 500 | 449 | 377 | 291 |
| OSP-17/53(P4)50(6X6) | 30   | 40   | 53    | V-6           | 2½ BSP       |                 | 594  | 583 | 519 | 466 | 392 | 302 |
| OSP-17/55(P4)50(6X6) | 30   | 40   | 55    | V-6           | 2½ BSP       |                 | 616  | 605 | 539 | 484 | 407 | 314 |
| OSP-17/58(P4)50(6X6) | 37   | 50   | 58    | V-6           | 2½ BSP       |                 | 650  | 638 | 568 | 510 | 429 | 331 |
| OSP-17/60(P4)50(6X6) | 37   | 50   | 60    | V-6           | 2½ BSP       |                 | 672  | 660 | 588 | 528 | 444 | 342 |

## Performance Table Submersible Pump OSP-17

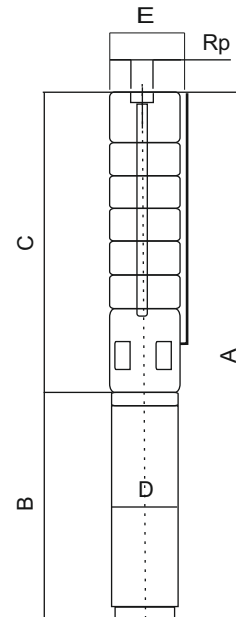
| MODEL OSP-17         | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge                  |      |     |       |     |       |     |
|----------------------|------|------|-------|---------------|--------------|----------------------------|------|-----|-------|-----|-------|-----|
|                      |      |      |       |               |              | M <sup>3</sup> /H<br>(LPM) | 0    | 6   | 12    | 15  | 18    | 21  |
|                      |      |      |       |               |              |                            | 0    | 100 | 200   | 250 | 300   | 350 |
| OSP-17/65(P4)50(6X6) | 45   | 60   | 65    | V-6           | 2½ BSP"      | (HEAD (METERS))            | 728  | 715 | 637   | 572 | 481   | 371 |
| OSP-17/70(P4)50(6X6) | 45   | 60   | 70    | V-6           | 2½ BSP"      |                            | 784  | 770 | 686   | 616 | 518   | 399 |
| OSP-17/72(P4)50(6X6) | 45   | 60   | 72    | V-6           | 2½ BSP"      |                            | 806  | 792 | 705.6 | 634 | 532.8 | 410 |
| OSP-17/75(P4)50(6X6) | 45   | 60   | 75    | V-6           | 2½ BSP"      |                            | 840  | 825 | 735   | 660 | 555   | 428 |
| OSP-17/80(P4)50(6X6) | 45   | 60   | 80    | V-6           | 2½ BSP"      |                            | 896  | 880 | 784   | 704 | 592   | 456 |
| OSP-17/85(P4)50(8X6) | 55   | 75   | 85    | V-8           | 2½ BSP"      |                            | 952  | 935 | 833   | 748 | 629   | 485 |
| OSP-17/90(P4)50(8X6) | 55   | 75   | 90    | V-8           | 2½ BSP"      |                            | 1008 | 990 | 882   | 792 | 666   | 513 |

## Technical Data

## Submersible Pump OSP-17

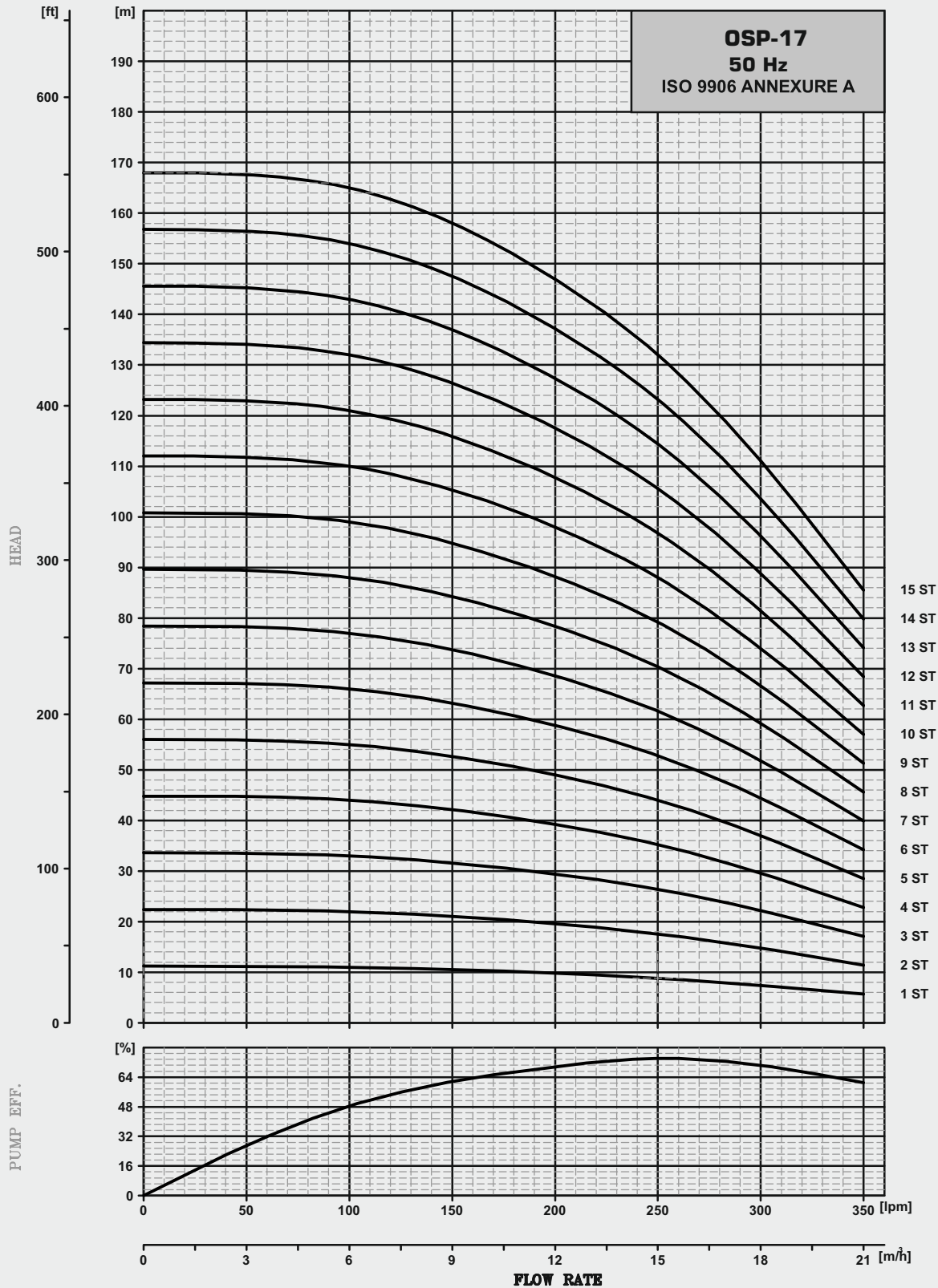
| PUMP MODEL           | STAGE | MOTOR         |              | PUMP        |     |     | Weight<br>Kg | MOTOR<br>OD<br>D |
|----------------------|-------|---------------|--------------|-------------|-----|-----|--------------|------------------|
|                      |       | JOINING MOTOR | POWER ( KW ) | Length<br>C | E*  | E** |              |                  |
| OSP-17/1(P4)50(4X6)  | 1     | V-4           | 0.55         | 336         | 131 |     | 5.37         | 97               |
| OSP-17/2(P4)50(4X6)  | 2     | V-4           | 1.10         | 397         | 131 |     | 6.61         | 97               |
| OSP-17/3(P4)50(4X6)  | 3     | V-4           | 2.2          | 458         | 143 | 145 | 7.85         | 97               |
| OSP-17/4(P4)50(4X6)  | 4     | V-4           | 2.2          | 519         | 143 | 145 | 9.10         | 97               |
| OSP-17/5(P4)50(4X6)  | 5     | V-4           | 3.0          | 580         | 143 | 145 | 10.34        | 97               |
| OSP-17/6(P4)50(6X6)  | 6     | V-6           | 3.7          | 610         | 143 | 145 | 13.40        | 144              |
| OSP-17/7(P4)50(6X6)  | 7     | V-6           | 4.0          | 702         | 143 | 145 | 14.64        | 144              |
| OSP-17/8(P4)50(6X6)  | 8     | V-6           | 5.5          | 763         | 143 | 145 | 15.88        | 144              |
| OSP-17/9(P4)50(6X6)  | 9     | V-6           | 5.5          | 824         | 143 | 145 | 17.12        | 144              |
| OSP-17/10(P4)50(6X6) | 10    | V-6           | 5.5          | 885         | 143 | 145 | 18.36        | 144              |
| OSP-17/11(P4)50(6X6) | 11    | V-6           | 7.5          | 946         | 143 | 145 | 19.60        | 144              |
| OSP-17/12(P4)50(6X6) | 12    | V-6           | 7.5          | 1007        | 143 | 145 | 20.84        | 144              |
| OSP-17/13(P4)50(6X6) | 13    | V-6           | 7.5          | 1068        | 143 | 145 | 22.09        | 144              |
| OSP-17/14(P4)50(6X6) | 14    | V-6           | 9.3          | 1129        | 143 | 145 | 23.33        | 144              |
| OSP-17/15(P4)50(6X6) | 15    | V-6           | 9.3          | 1190        | 143 | 145 | 24.57        | 144              |
| OSP-17/16(P4)50(6X6) | 16    | V-6           | 9.3          | 1251        | 143 | 145 | 25.81        | 144              |
| OSP-17/17(P4)50(6X6) | 17    | V-6           | 9.3          | 1312        | 143 | 145 | 27.05        | 144              |
| OSP-17/18(P4)50(6X6) | 18    | V-6           | 11.0         | 1373        | 143 | 145 | 28.29        | 144              |
| OSP-17/19(P4)50(6X6) | 19    | V-6           | 11.0         | 1434        | 143 | 145 | 29.53        | 144              |
| OSP-17/20(P4)50(6X6) | 20    | V-6           | 11.0         | 1495        | 143 | 145 | 30.77        | 144              |
| OSP-17/21(P4)50(6X6) | 21    | V-6           | 13.0         | 1556        | 143 | 145 | 32.01        | 144              |
| OSP-17/22(P4)50(6X6) | 22    | V-6           | 13.0         | 1617        | 143 | 145 | 33.25        | 144              |
| OSP-17/23(P4)50(6X6) | 23    | V-6           | 13.0         | 1678        | 143 | 145 | 34.50        | 144              |
| OSP-17/24(P4)50(6X6) | 24    | V-6           | 13.0         | 1739        | 143 | 145 | 35.74        | 144              |
| OSP-17/25(P4)50(6X6) | 25    | V-6           | 15.0         | 1800        | 143 | 145 | 36.98        | 144              |
| OSP-17/26(P4)50(6X6) | 26    | V-6           | 15.0         | 1861        | 143 | 145 | 38.22        | 144              |
| OSP-17/27(P4)50(6X6) | 27    | V-6           | 15.0         | 1922        | 143 | 145 | 39.46        | 144              |
| OSP-17/28(P4)50(6X6) | 28    | V-6           | 18.5         | 1983        | 143 | 145 | 40.70        | 144              |
| OSP-17/29(P4)50(6X6) | 29    | V-6           | 18.5         | 2044        | 143 | 145 | 41.94        | 144              |
| OSP-17/30(P4)50(6X6) | 30    | V-6           | 18.5         | 2105        | 143 | 145 | 43.18        | 144              |
| OSP-17/31(P4)50(6X6) | 31    | V-6           | 18.5         | 2166        | 143 | 145 | 44.42        | 144              |
| OSP-17/32(P4)50(6X6) | 32    | V-6           | 18.5         | 2227        | 143 | 145 | 45.66        | 144              |
| OSP-17/33(P4)50(6X6) | 33    | V-6           | 18.5         | 2288        | 143 | 145 | 46.91        | 144              |
| OSP-17/34(P4)50(6X6) | 34    | V-6           | 22.0         | 2349        | 143 | 145 | 48.15        | 144              |
| OSP-17/35(P4)50(6X6) | 35    | V-6           | 22.0         | 2410        | 143 | 145 | 49.39        | 144              |
| OSP-17/36(P4)50(6X6) | 36    | V-6           | 22.0         | 2471        | 143 | 145 | 50.63        | 144              |
| OSP-17/37(P4)50(6X6) | 37    | V-6           | 22.0         | 2532        | 143 | 145 | 51.87        | 144              |
| OSP-17/38(P4)50(6X6) | 38    | V-6           | 22.0         | 2593        | 143 | 145 | 53.11        | 144              |
| OSP-17/39(P4)50(6X6) | 39    | V-6           | 22.0         | 2654        | 143 | 145 | 54.35        | 144              |
| OSP-17/40(P4)50(6X6) | 40    | V-6           | 22.0         | 2715        | 143 | 145 | 55.59        | 144              |
| OSP-17/43(P4)50(6X6) | 43    | V-6           | 26.0         | 2898        | 143 | 145 | 59.32        | 144              |
| OSP-17/45(P4)50(6X6) | 45    | V-6           | 26.0         | 3020        | 143 | 145 | 61.80        | 144              |
| OSP-17/48(P4)50(6X6) | 48    | V-6           | 30.0         | 3203        | 143 | 145 | 65.52        | 144              |
| OSP-17/51(P4)50(6X6) | 51    | V-6           | 30.0         | 3386        | 143 | 145 | 69.24        | 144              |
| OSP-17/53(P4)50(6X6) | 53    | V-6           | 30.0         | 3508        | 143 | 145 | 71.73        | 144              |
| OSP-17/55(P4)50(6X6) | 55    | V-6           | 30.0         | 3630        | 143 | 145 | 74.21        | 144              |
| OSP-17/58(P4)50(6X6) | 58    | V-6           | 37.0         | 3813        | 143 | 145 | 77.93        | 144              |
| OSP-17/60(P4)50(6X6) | 60    | V-6           | 37.0         | 3935        | 143 | 145 | 80.41        | 144              |

FIGURE

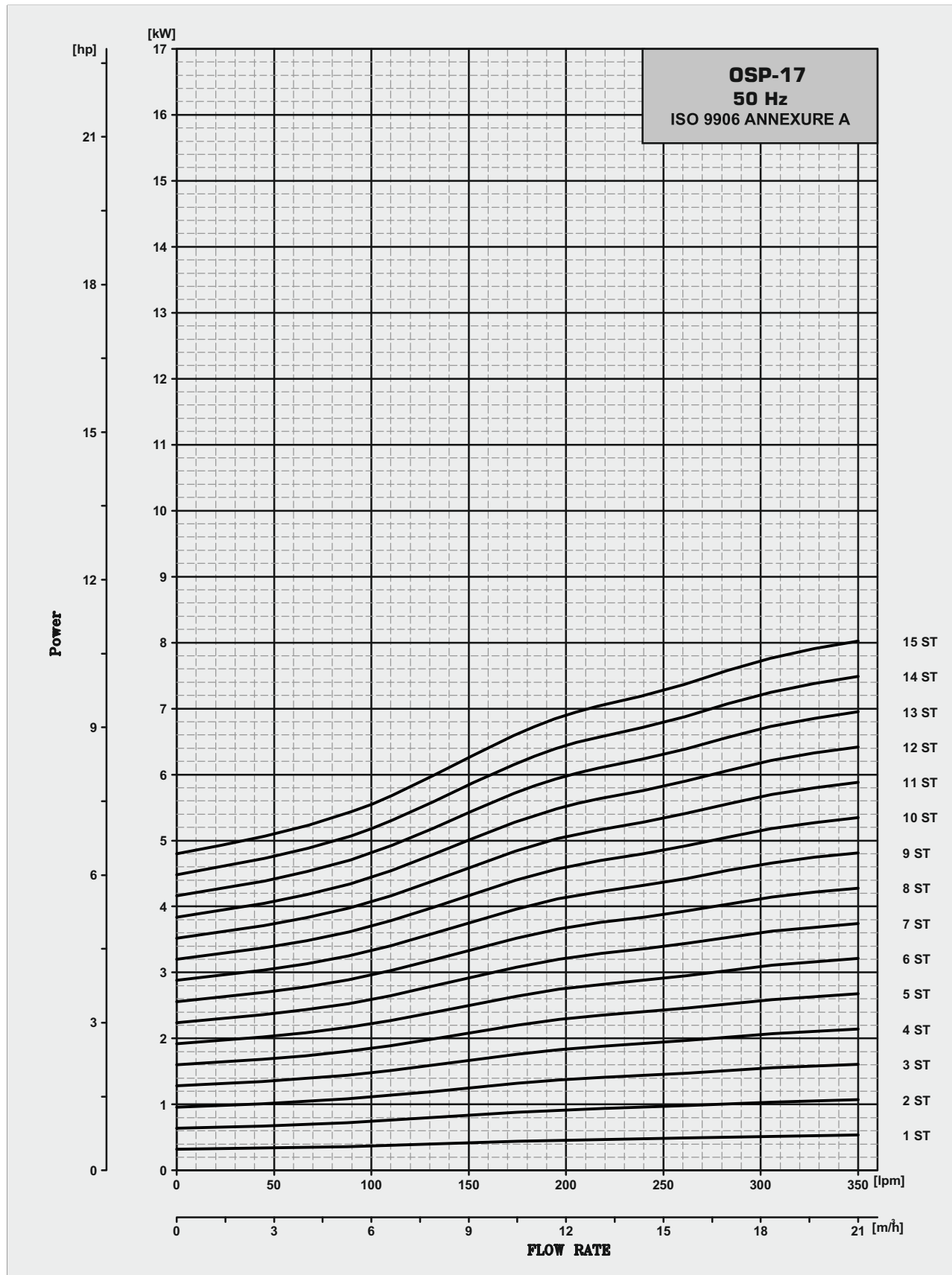


NOTE- (S) =MEANS PUMP WITH SLEEVE (EXTERNAL JACKET)

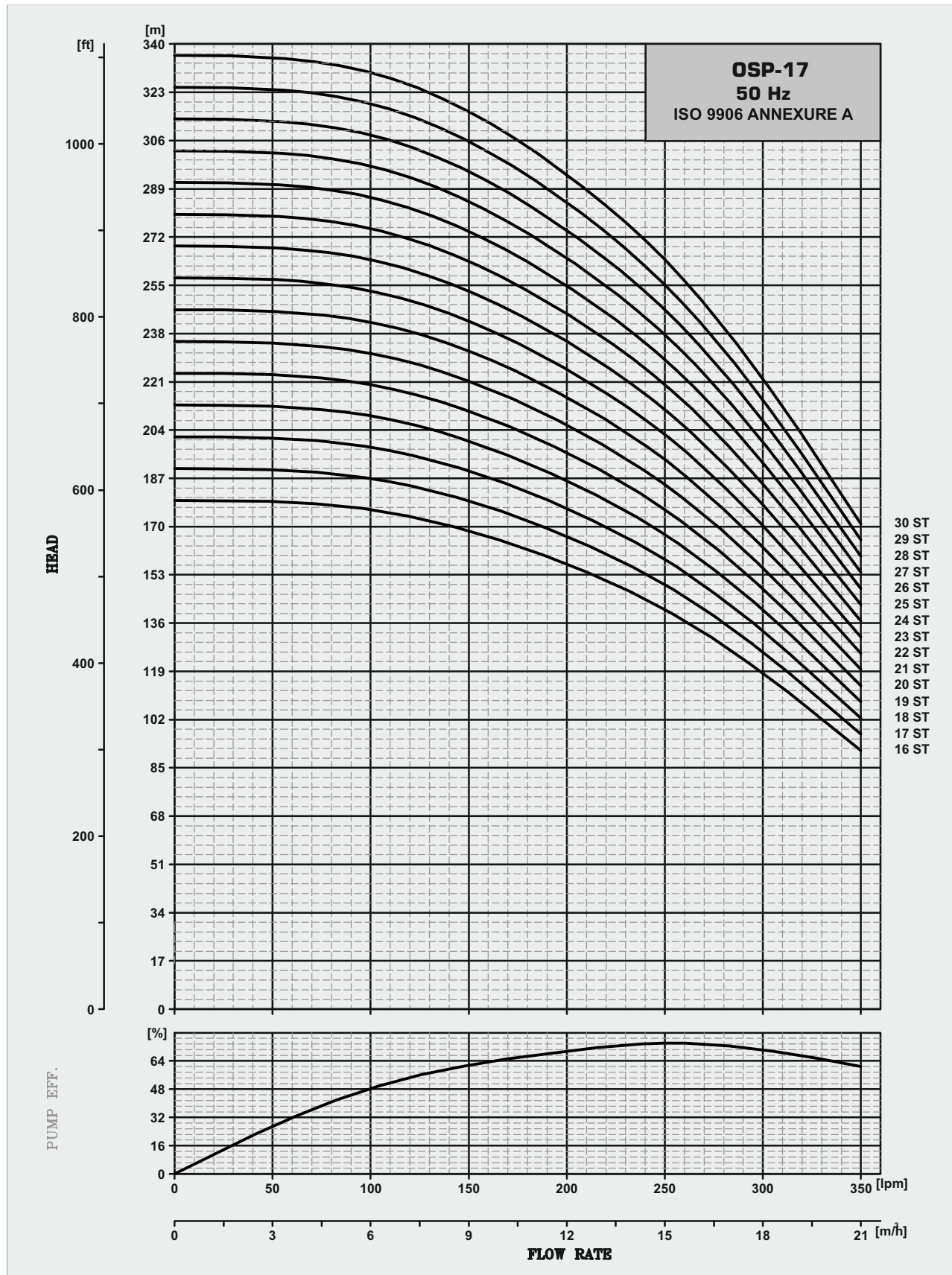
## Performance Curves



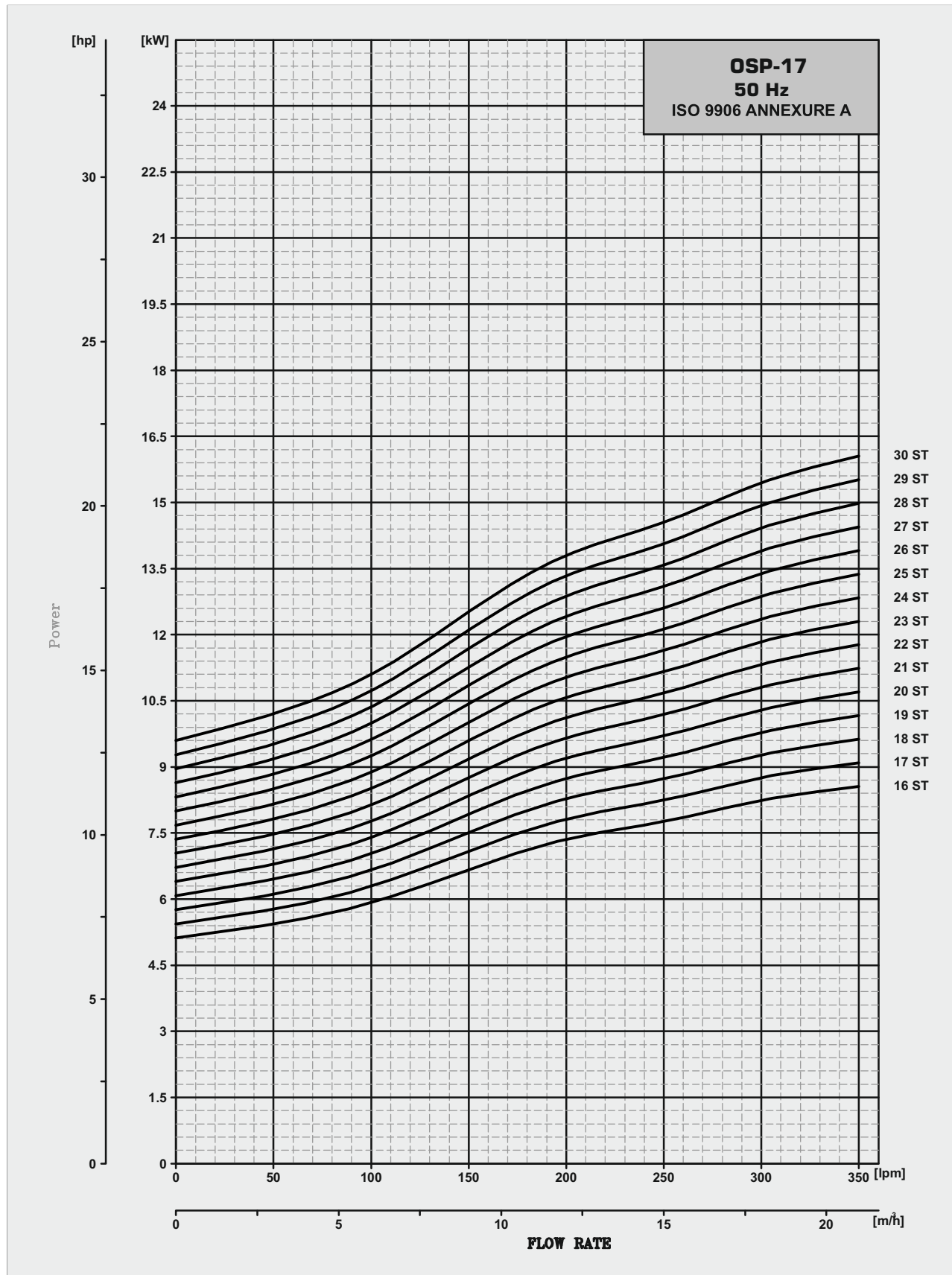
## Power Curves



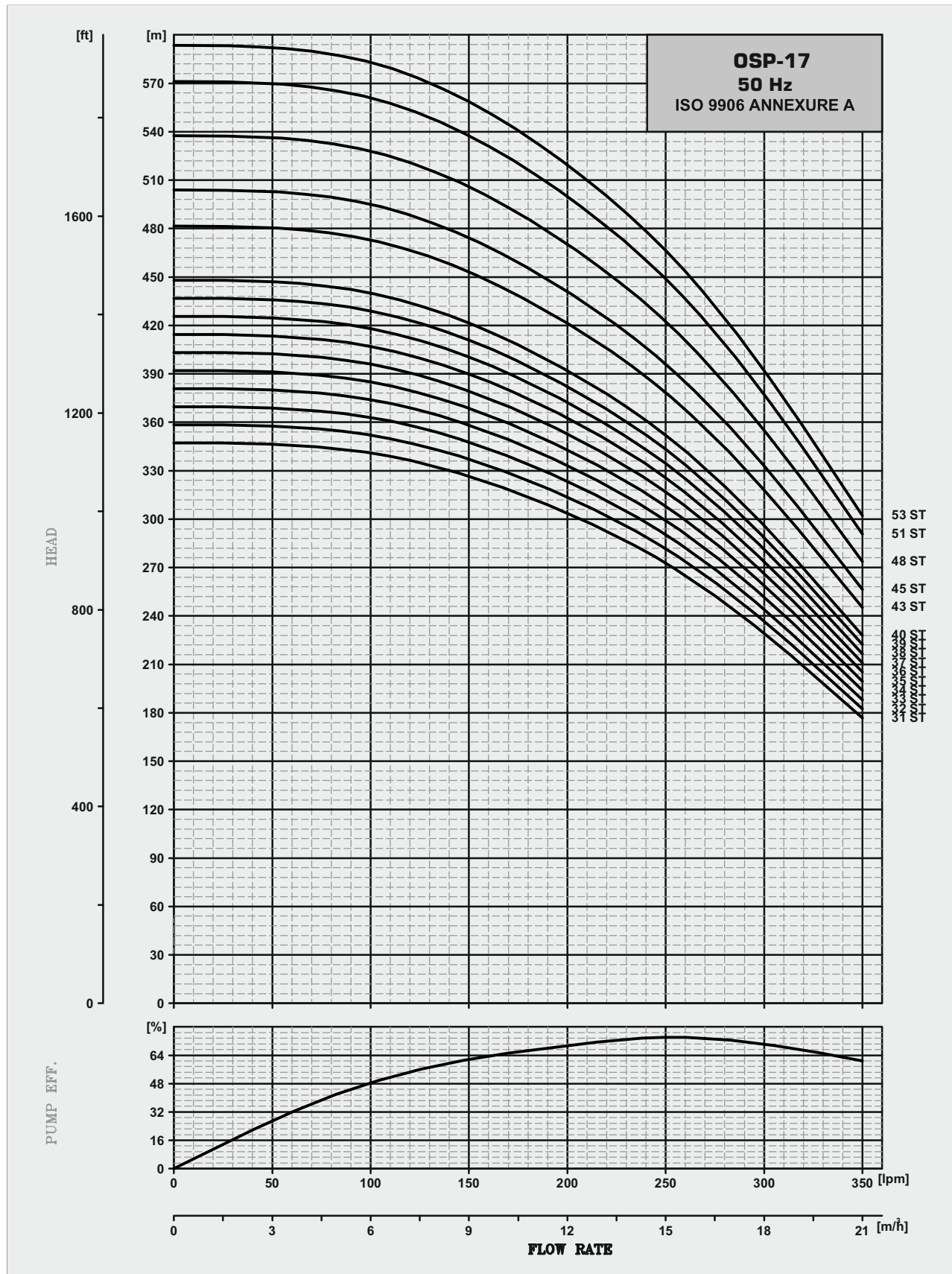
## Performance Curves



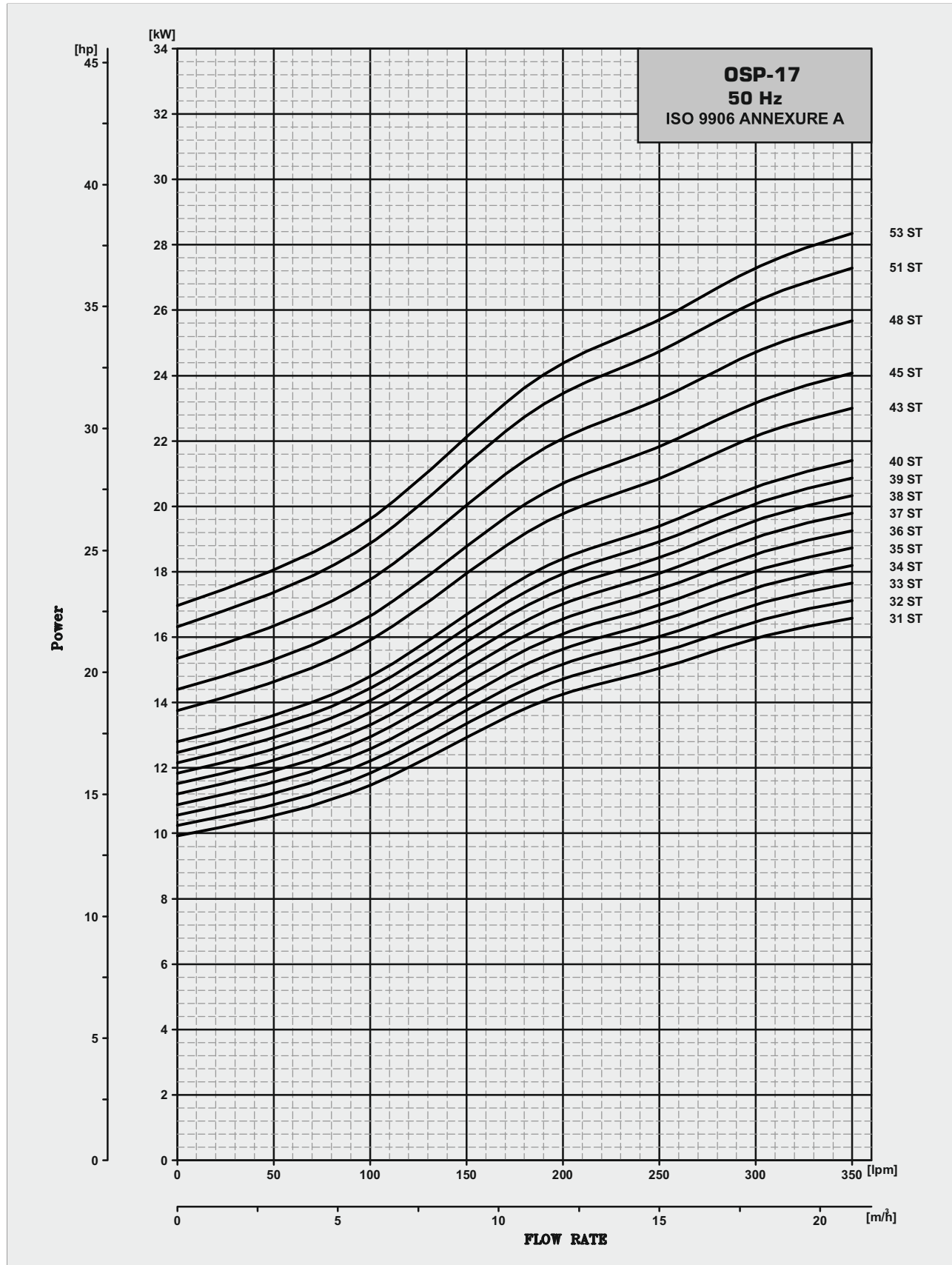
## Power Curves



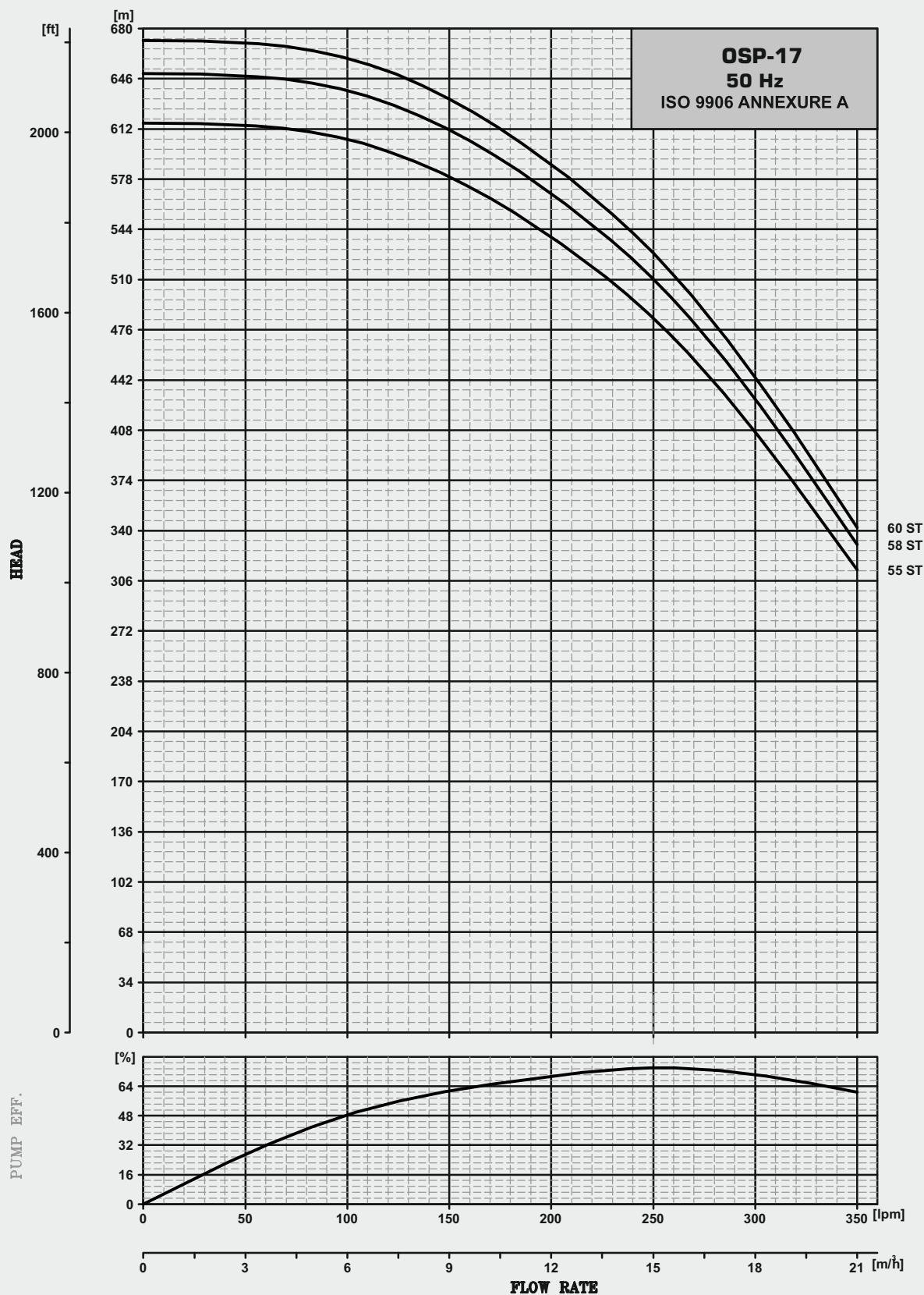
## Performance Curves



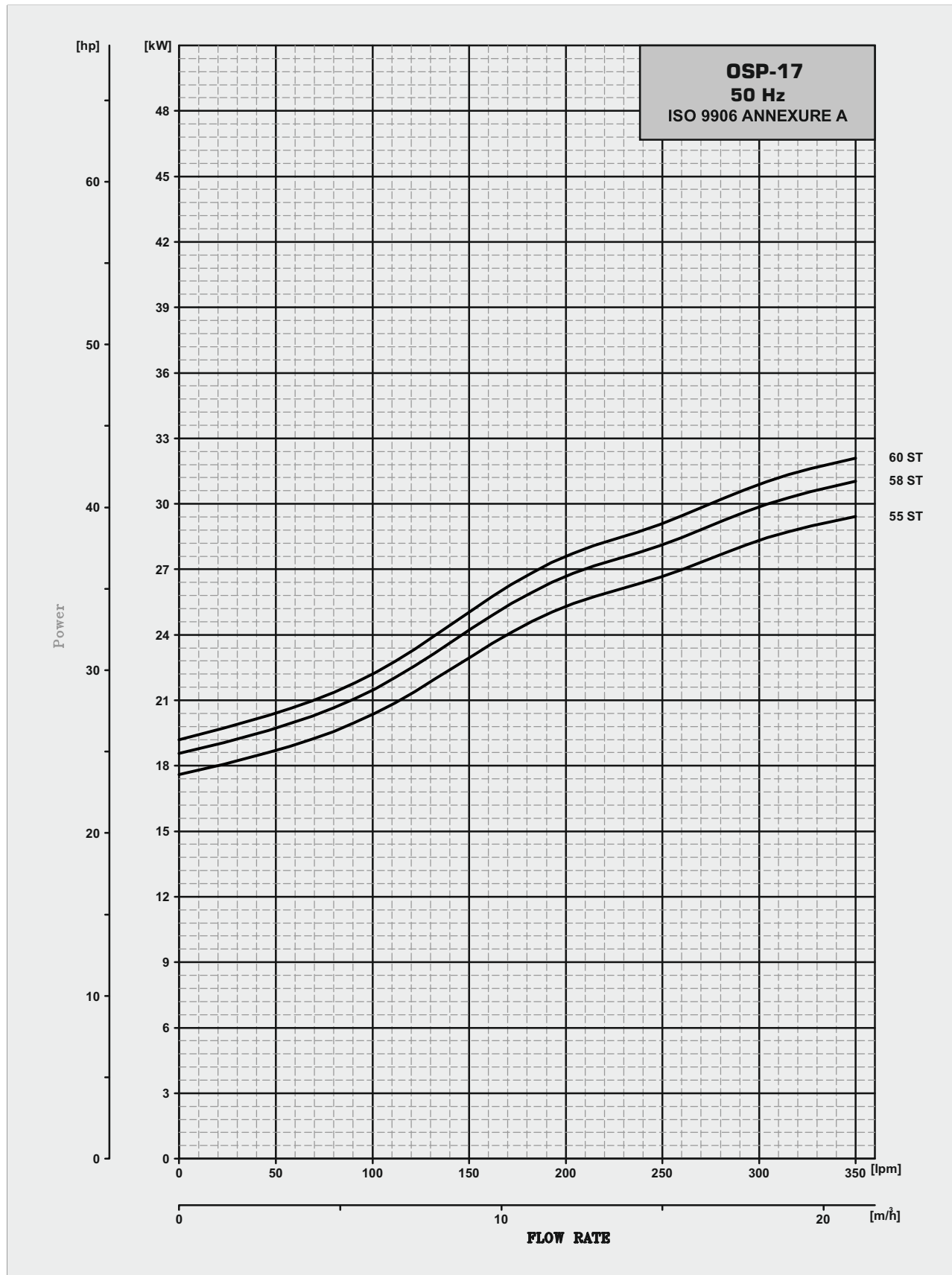
## Power Curves



## Performance Curves



## Power Curves



## Performance Table

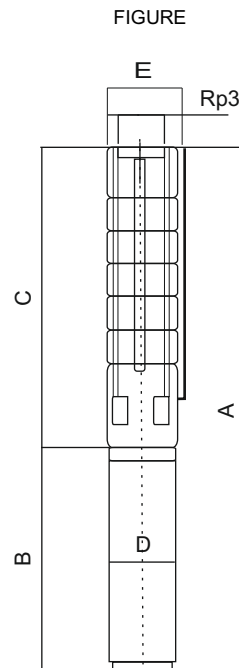
### Submersible Pump OSP-30

| MODEL OSP-30         | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge         |      |      |     |     |     |     |
|----------------------|------|------|-------|---------------|--------------|-------------------|------|------|-----|-----|-----|-----|
|                      |      |      |       |               |              | M <sup>3</sup> /H | 0    | 12   | 24  | 30  | 36  | 39  |
|                      |      |      |       |               |              | (LPM)             | 0    | 200  | 400 | 500 | 600 | 650 |
| OSP-30/1(P4)50(4X6)  | 1.1  | 1.5  | 1     | V-4           | 3"BSP        | HEAD IN METERS    | 11.4 | 10.6 | 8.8 | 7.5 | 5.4 | 4.2 |
| OSP-30/2(P4)50(4X6)  | 2.2  | 3    | 2     | V-4           | 3"BSP        |                   | 23   | 21   | 18  | 15  | 11  | 8   |
| OSP-30/3(P4)50(4X6)  | 3    | 4    | 3     | V-4           | 3"BSP        |                   | 34   | 32   | 26  | 23  | 16  | 13  |
| OSP-30/4(P4)50(6X6)  | 4.0  | 5.5  | 4     | V-6           | 3"BSP        |                   | 46   | 42   | 35  | 30  | 22  | 17  |
| OSP-30/5(P4)50(6X6)  | 5.5  | 7.5  | 5     | V-6           | 3"BSP        |                   | 57   | 53   | 44  | 38  | 27  | 21  |
| OSP-30/6(P4)50(6X6)  | 5.5  | 7.5  | 6     | V-6           | 3"BSP        |                   | 68   | 64   | 53  | 45  | 32  | 25  |
| OSP-30/7(P4)50(6X6)  | 7.5  | 10   | 7     | V-6           | 3"BSP        |                   | 80   | 74   | 62  | 53  | 38  | 29  |
| OSP-30/8(P4)50(6X6)  | 7.5  | 10   | 8     | V-6           | 3"BSP        |                   | 91   | 85   | 70  | 60  | 43  | 34  |
| OSP-30/9(P4)50(6X6)  | 9.3  | 12.5 | 9     | V-6           | 3"BSP        |                   | 103  | 95   | 79  | 68  | 49  | 38  |
| OSP-30/10(P4)50(6X6) | 9.3  | 12.5 | 10    | V-6           | 3"BSP        |                   | 114  | 106  | 88  | 75  | 54  | 42  |
| OSP-30/11(P4)50(6X6) | 9.3  | 12.5 | 11    | V-6           | 3"BSP        |                   | 125  | 117  | 97  | 83  | 59  | 46  |
| OSP-30/12(P4)50(6X6) | 11   | 15   | 12    | V-6           | 3"BSP        |                   | 137  | 127  | 106 | 90  | 65  | 50  |
| OSP-30/13(P4)50(6X6) | 11   | 15   | 13    | V-6           | 3"BSP        |                   | 148  | 138  | 114 | 98  | 70  | 55  |
| OSP-30/14(P4)50(6X6) | 13   | 17.5 | 14    | V-6           | 3"BSP        |                   | 160  | 148  | 123 | 105 | 76  | 59  |
| OSP-30/15(P4)50(6X6) | 13   | 17.5 | 15    | V-6           | 3"BSP        |                   | 171  | 159  | 132 | 113 | 81  | 63  |
| OSP-30/16(P4)50(6X6) | 15   | 20   | 16    | V-6           | 3"BSP        |                   | 182  | 170  | 141 | 120 | 86  | 67  |
| OSP-30/17(P4)50(6X6) | 15   | 20   | 17    | V-6           | 3"BSP        |                   | 194  | 180  | 150 | 128 | 92  | 71  |
| OSP-30/18(P4)50(6X6) | 18.5 | 25   | 18    | V-6           | 3"BSP        |                   | 205  | 191  | 158 | 135 | 97  | 76  |
| OSP-30/19(P4)50(6X6) | 18.5 | 25   | 19    | V-6           | 3"BSP        |                   | 217  | 201  | 167 | 143 | 103 | 80  |
| OSP-30/20(P4)50(6X6) | 18.5 | 25   | 20    | V-6           | 3"BSP        |                   | 228  | 212  | 176 | 150 | 108 | 84  |
| OSP-30/21(P4)50(6X6) | 18.5 | 25   | 21    | V-6           | 3"BSP        |                   | 239  | 223  | 185 | 158 | 113 | 88  |
| OSP-30/22(P4)50(6X6) | 22   | 30   | 22    | V-6           | 3"BSP        |                   | 251  | 233  | 194 | 165 | 119 | 92  |
| OSP-30/23(P4)50(6X6) | 22   | 30   | 23    | V-6           | 3"BSP        |                   | 262  | 244  | 202 | 173 | 124 | 97  |
| OSP-30/24(P4)50(6X6) | 22   | 30   | 24    | V-6           | 3"BSP        |                   | 274  | 254  | 211 | 180 | 130 | 101 |
| OSP-30/25(P4)50(6X6) | 22   | 30   | 25    | V-6           | 3"BSP        |                   | 285  | 265  | 220 | 188 | 135 | 105 |
| OSP-30/26(P4)50(6X6) | 22   | 30   | 26    | V-6           | 3"BSP        |                   | 296  | 276  | 229 | 195 | 140 | 109 |
| OSP-30/27(P4)50(6X6) | 26   | 35   | 27    | V-6           | 3"BSP        |                   | 308  | 286  | 238 | 203 | 146 | 113 |
| OSP-30/28(P4)50(6X6) | 26   | 35   | 28    | V-6           | 3"BSP        |                   | 319  | 297  | 246 | 210 | 151 | 118 |
| OSP-30/29(P4)50(6X6) | 26   | 35   | 29    | V-6           | 3"BSP        |                   | 331  | 307  | 255 | 218 | 157 | 122 |
| OSP-30/30(P4)50(6X6) | 26   | 35   | 30    | V-6           | 3"BSP        |                   | 342  | 318  | 264 | 225 | 162 | 126 |
| OSP-30/31(P4)50(6X6) | 30   | 40   | 31    | V-6           | 3"BSP        |                   | 353  | 329  | 273 | 233 | 167 | 130 |
| OSP-30/32(P4)50(6X6) | 30   | 40   | 32    | V-6           | 3"BSP        |                   | 365  | 339  | 282 | 240 | 173 | 134 |
| OSP-30/33(P4)50(6X6) | 30   | 40   | 33    | V-6           | 3"BSP        |                   | 376  | 350  | 290 | 248 | 178 | 139 |
| OSP-30/34(P4)50(6X6) | 30   | 40   | 34    | V-6           | 3"BSP        |                   | 388  | 360  | 299 | 255 | 184 | 143 |
| OSP-30/35(P4)50(6X6) | 30   | 40   | 35    | V-6           | 3"BSP        | 399               | 371  | 308  | 263 | 189 | 147 |     |
| OSP-30/39(P4)50(6X6) | 37   | 50   | 39    | V-6           | 3"BSP        | 445               | 413  | 343  | 293 | 211 | 164 |     |
| OSP-30/43(P4)50(6X6) | 37   | 50   | 43    | V-6           | 3"BSP        | 490               | 456  | 378  | 323 | 232 | 181 |     |
| OSP-30/46(P4)50(6X6) | 45   | 60   | 46    | V-6           | 3"BSP        | 524               | 488  | 405  | 345 | 248 | 193 |     |
| OSP-30/49(P4)50(6X6) | 45   | 60   | 49    | V-6           | 3"BSP        | 559               | 519  | 431  | 368 | 265 | 206 |     |
| OSP-30/52(P4)50(8X6) | 55   | 75   | 52    | V-8           | 3"BSP        | 593               | 551  | 458  | 390 | 281 | 218 |     |
| OSP-30/54(P4)50(8X6) | 55   | 75   | 54    | V-8           | 3"BSP        | 616               | 572  | 475  | 405 | 292 | 227 |     |

## Technical Data

### Submersible Pump OSP-30

| PUMP MODEL           | STAGE | MOTOR         |              | PUMP   |     |     |        | MOTOR |
|----------------------|-------|---------------|--------------|--------|-----|-----|--------|-------|
|                      |       | JOINING MOTOR | POWER ( KW ) | Length |     |     | Weight | OD    |
|                      |       |               |              | C      | E*  | E** | Kg     | D     |
| OSP-30/1(P4)50(4X6)  | 1     | V-4           | 1.1          | 371    | 131 |     | 6.53   | 97    |
| OSP-30/2(P4)50(4X6)  | 2     | V-6           | 2.2          | 467    | 143 | 145 | 8.54   | 97    |
| OSP-30/3(P4)50(4X6)  | 3     | V-4           | 3            | 563    | 143 | 145 | 10.55  | 97    |
| OSP-30/4(P4)50(6X6)  | 4     | V-6           | 4.0          | 659    | 143 | 145 | 14.39  | 144   |
| OSP-30/5(P4)50(6X6)  | 5     | V-6           | 5.5          | 755    | 143 | 145 | 16.40  | 144   |
| OSP-30/6(P4)50(6X6)  | 6     | V-6           | 5.5          | 851    | 143 | 145 | 18.41  | 144   |
| OSP-30/7(P4)50(6X6)  | 7     | V-6           | 7.5          | 947    | 143 | 145 | 20.42  | 144   |
| OSP-30/8(P4)50(6X6)  | 8     | V-6           | 7.5          | 1043   | 143 | 145 | 22.43  | 144   |
| OSP-30/9(P4)50(6X6)  | 9     | V-6           | 9.3          | 1139   | 143 | 145 | 24.44  | 144   |
| OSP-30/10(P4)50(6X6) | 10    | V-6           | 9.3          | 1235   | 143 | 145 | 26.45  | 144   |
| OSP-30/11(P4)50(6X6) | 11    | V-6           | 9.3          | 1331   | 143 | 145 | 28.46  | 144   |
| OSP-30/12(P4)50(6X6) | 12    | V-6           | 11.0         | 1427   | 143 | 145 | 30.47  | 144   |
| OSP-30/13(P4)50(6X6) | 13    | V-6           | 11.0         | 1523   | 143 | 145 | 32.48  | 144   |
| OSP-30/14(P4)50(6X6) | 14    | V-6           | 13.0         | 1619   | 143 | 145 | 34.49  | 144   |
| OSP-30/15(P4)50(6X6) | 15    | V-6           | 13.0         | 1715   | 143 | 145 | 36.50  | 144   |
| OSP-30/16(P4)50(6X6) | 16    | V-6           | 15.0         | 1811   | 143 | 145 | 38.51  | 144   |
| OSP-30/17(P4)50(6X6) | 17    | V-6           | 15.0         | 1907   | 143 | 145 | 40.52  | 144   |
| OSP-30/18(P4)50(6X6) | 18    | V-6           | 18.5         | 2003   | 143 | 145 | 42.53  | 144   |
| OSP-30/19(P4)50(6X6) | 19    | V-6           | 18.5         | 2099   | 143 | 145 | 44.54  | 144   |
| OSP-30/20(P4)50(6X6) | 20    | V-6           | 18.5         | 2195   | 143 | 145 | 46.55  | 144   |
| OSP-30/21(P4)50(6X6) | 21    | V-6           | 18.5         | 2291   | 143 | 145 | 48.56  | 144   |
| OSP-30/22(P4)50(6X6) | 22    | V-6           | 22.0         | 2387   | 143 | 145 | 50.57  | 144   |
| OSP-30/23(P4)50(6X6) | 23    | V-6           | 22.0         | 2483   | 143 | 145 | 52.58  | 144   |
| OSP-30/24(P4)50(6X6) | 24    | V-6           | 22.0         | 2579   | 143 | 145 | 54.59  | 144   |
| OSP-30/25(P4)50(6X6) | 25    | V-6           | 22.0         | 2675   | 143 | 145 | 56.60  | 144   |
| OSP-30/26(P4)50(6X6) | 26    | V-6           | 22.0         | 2771   | 143 | 145 | 58.61  | 144   |
| OSP-30/27(P4)50(6X6) | 27    | V-6           | 26.0         | 2867   | 143 | 145 | 60.62  | 144   |
| OSP-30/28(P4)50(6X6) | 28    | V-6           | 26.0         | 2963   | 143 | 145 | 62.63  | 144   |
| OSP-30/29(P4)50(6X6) | 29    | V-6           | 26.0         | 3059   | 143 | 145 | 64.64  | 144   |
| OSP-30/30(P4)50(6X6) | 30    | V-6           | 26.0         | 3155   | 143 | 145 | 66.65  | 144   |
| OSP-30/31(P4)50(6X6) | 31    | V-6           | 30.0         | 3251   | 143 | 145 | 68.66  | 144   |
| OSP-30/32(P4)50(6X6) | 32    | V-6           | 30.0         | 3347   | 143 | 145 | 70.67  | 144   |
| OSP-30/33(P4)50(6X6) | 33    | V-6           | 30.0         | 3443   | 143 | 145 | 72.68  | 144   |
| OSP-30/34(P4)50(6X6) | 34    | V-6           | 30.0         | 3539   | 143 | 145 | 74.69  | 144   |
| OSP-30/35(P4)50(6X6) | 35    | V-6           | 30.0         | 3635   | 143 | 145 | 76.70  | 144   |
| OSP-30/39(P4)50(6X6) | 39    | V-6           | 37.0         | 4019   | 143 | 145 | 84.74  | 144   |
| OSP-30/43(P4)50(6X6) | 43    | V-6           | 37.0         | 4403   | 143 | 145 | 92.78  | 144   |
| OSP-30/46(P4)50(6X6) | 46    | V-6           | 45.0         | 4691   | 143 | 145 | 98.81  | 144   |
| OSP-30/49(P4)50(6X6) | 49    | V-6           | 45.0         | 4979   | 143 | 145 | 104.84 | 144   |
| OSP-30/52(P4)50(8X6) | 52    | V-8           | 55.0         | 5478   | 188 | 188 | 128.02 | 189   |
| OSP-30/54(P4)50(8X6) | 54    | V-8           | 55.0         | 5670   | 188 | 188 | 132.04 | 189   |

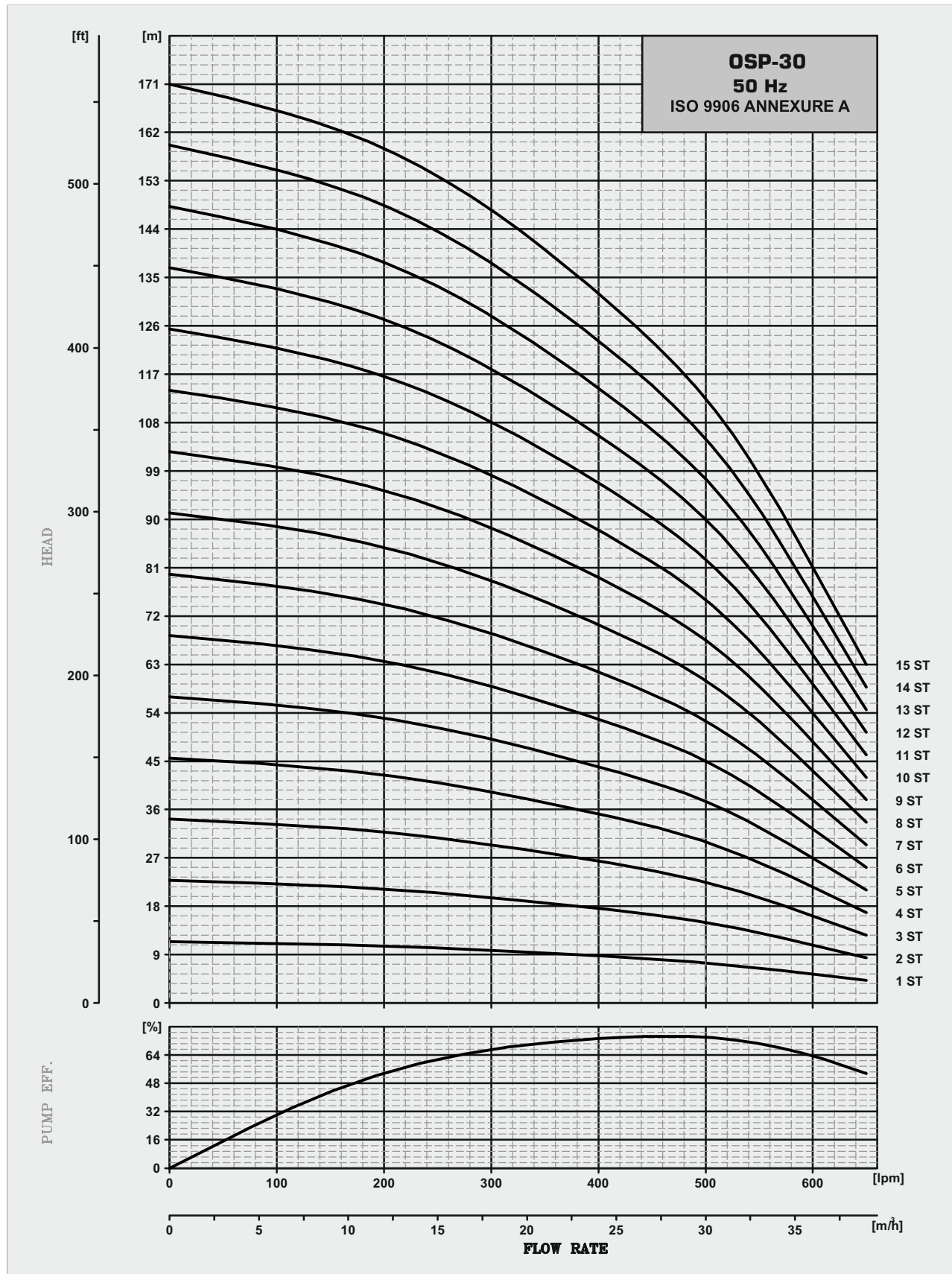


\* MAX.DIA OF PUMP WITH ONE MOTOR CABLE

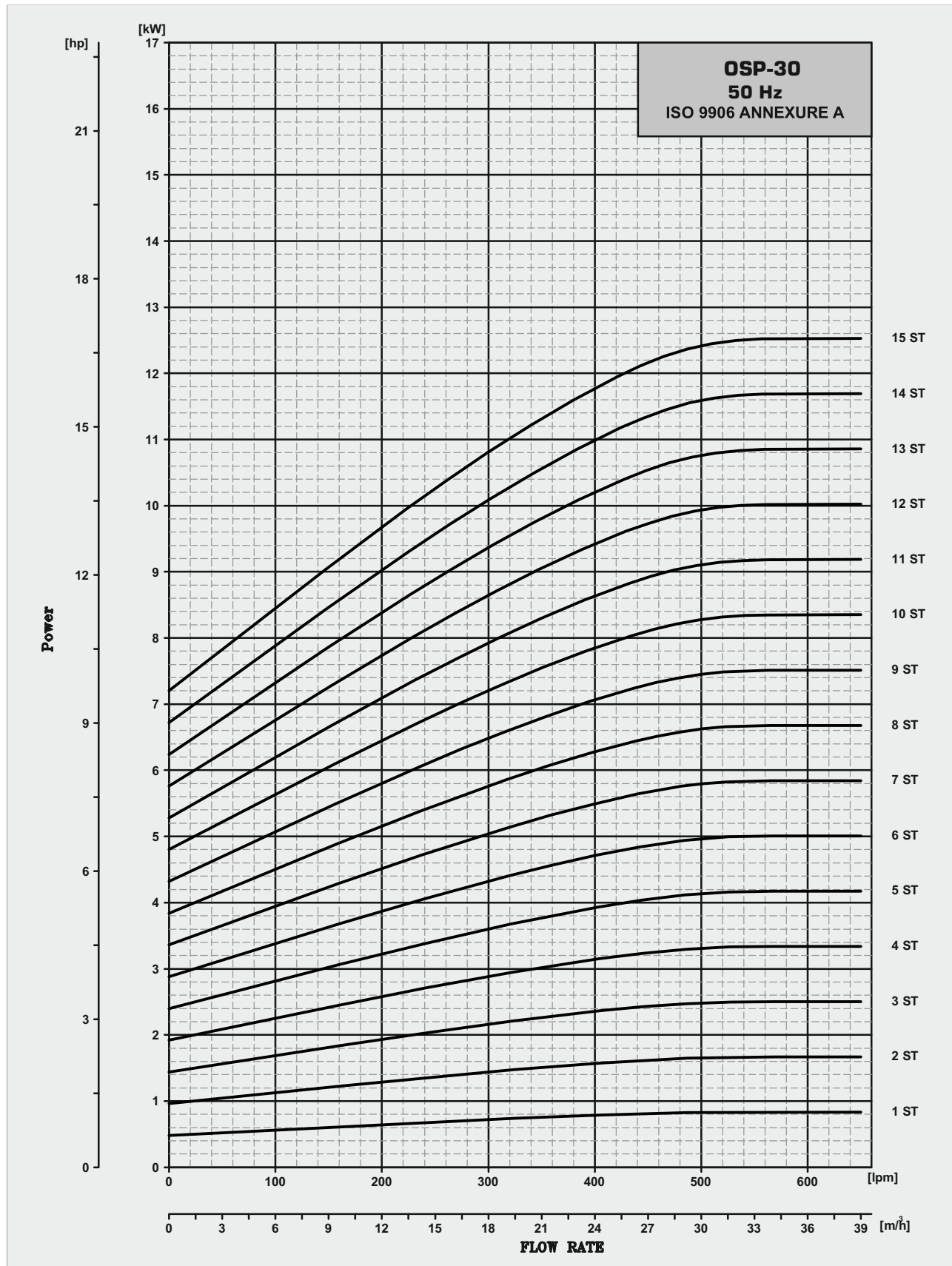
\*\* MAX.DIA OF PUMP WITH TWO MOTOR CABLE

**NOTE-** (S) =MEANS PUMP WITH SLEEVE (EXTERNAL JACKET)

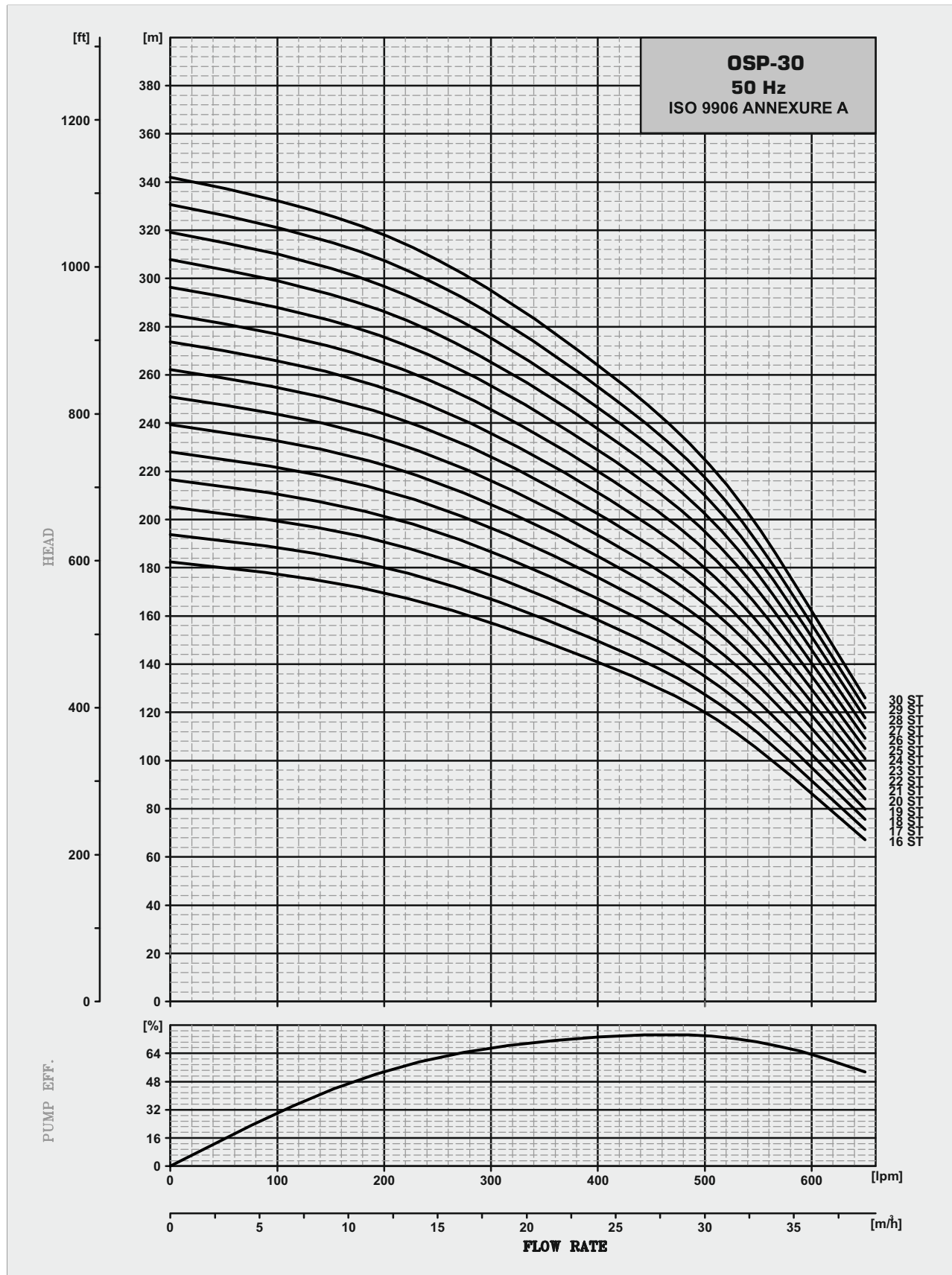
## Performance Curves



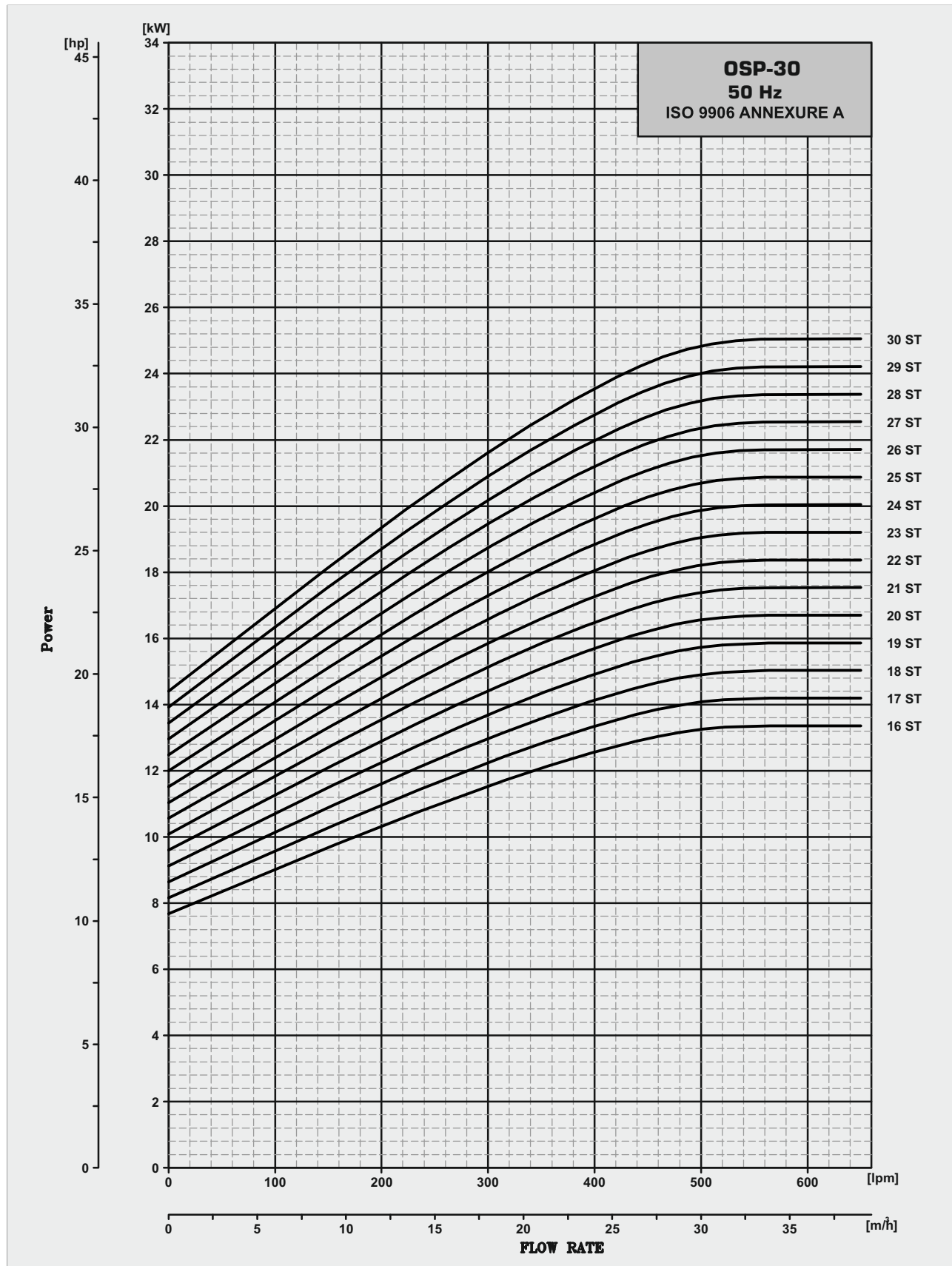
## Power Curves



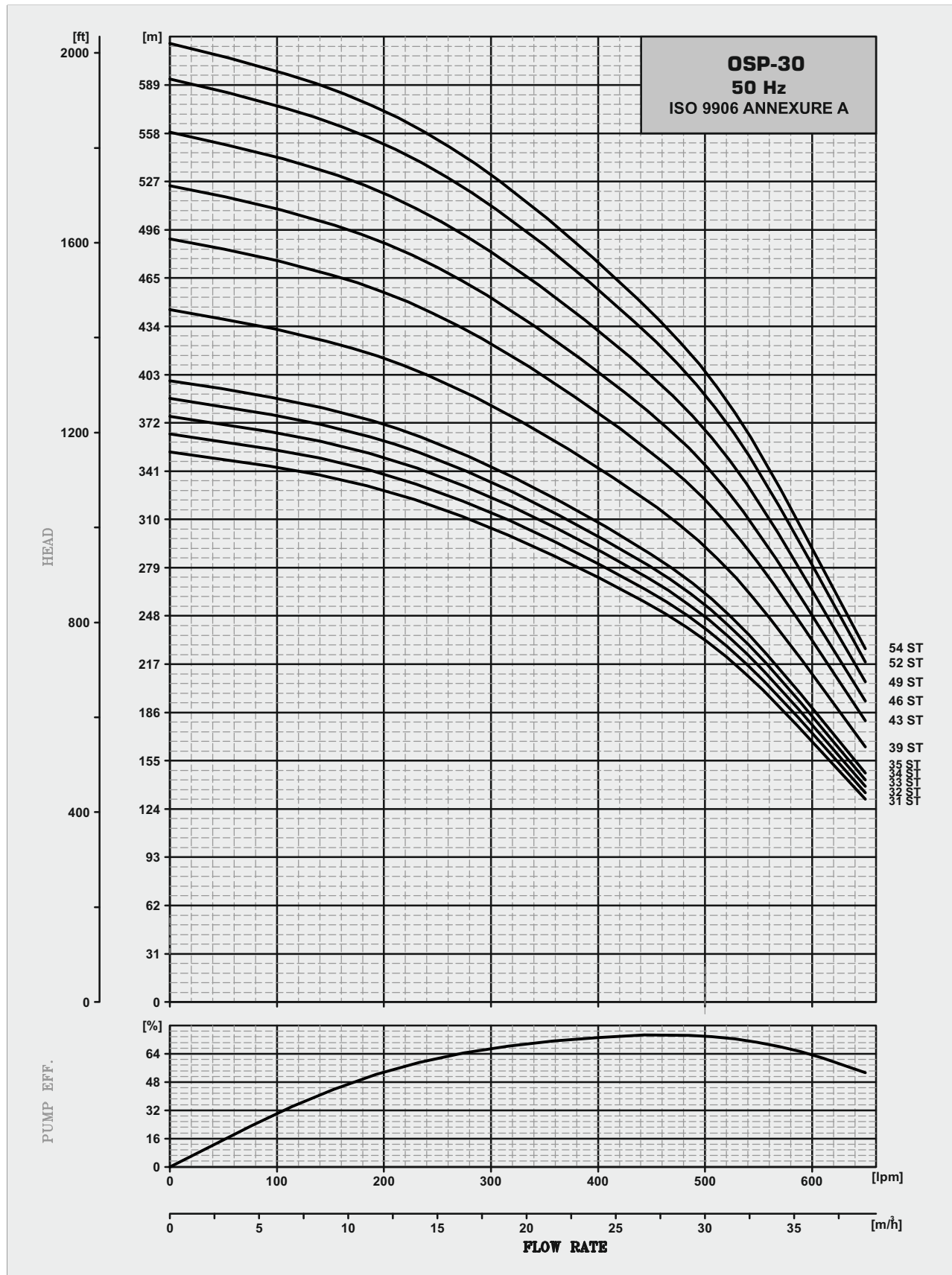
## Performance Curves



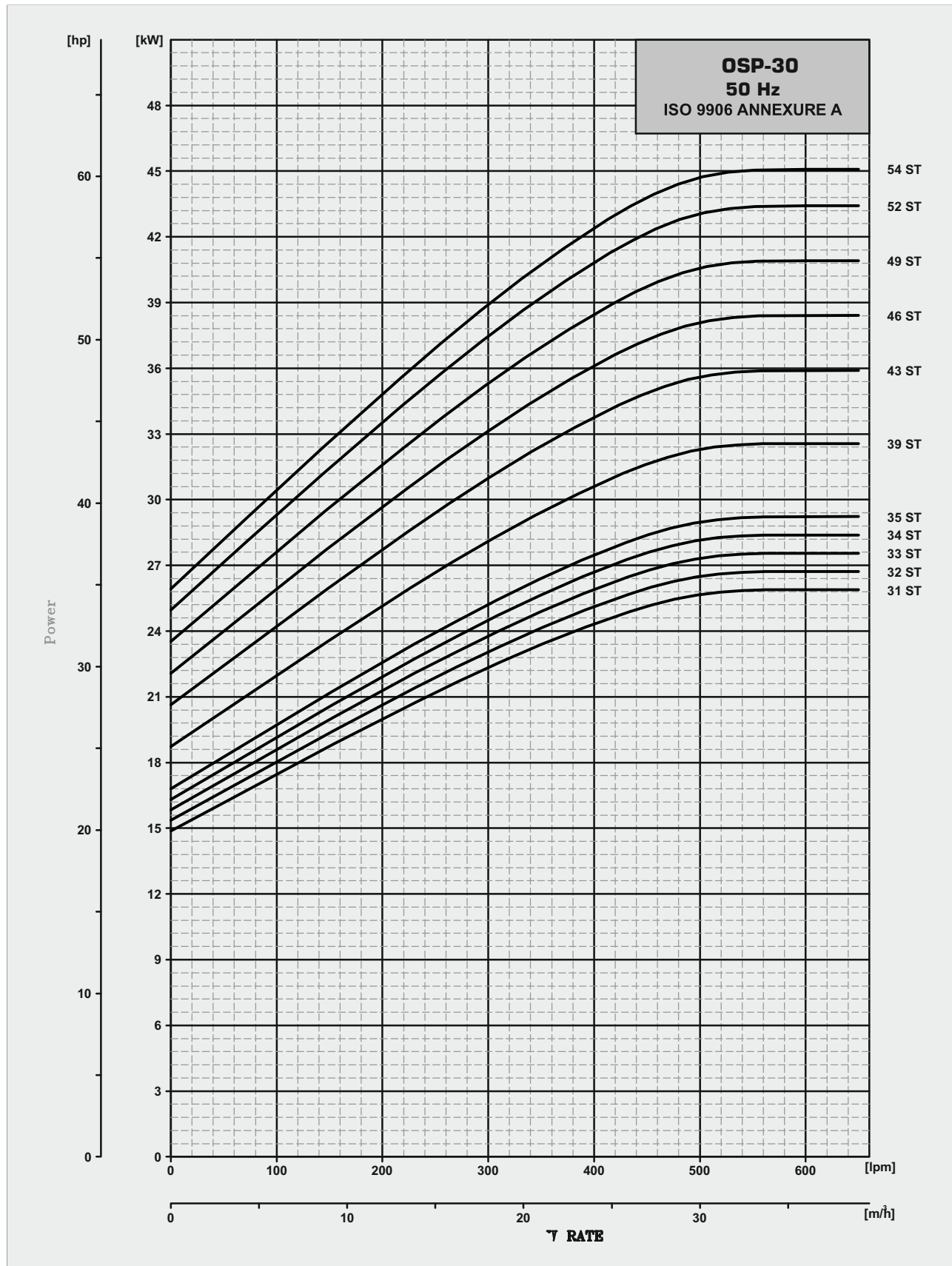
## Power Curves



## Performance Curves



## Power Curves



## Performance Table Submersible Pump OSP-46

| MODEL OSP-46           | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge         |      |      |     |     |      |
|------------------------|------|------|-------|---------------|--------------|-------------------|------|------|-----|-----|------|
|                        |      |      |       |               |              | M <sup>3</sup> /H | 0    | 24   | 36  | 48  | 60   |
|                        |      |      |       |               |              | (LPM)             | 0    | 400  | 600 | 800 | 1000 |
| OSP-46/1-B(P4)50(4X6)  | 1.1  | 1.5  | 1-B   | V-4           | 4"BSP        | HEAD IN METERS    | 9.5  | 8    | 7   | 4   | 0.5  |
| OSP-46/1(P4)50(4X6)    | 2.2  | 3    | 1     | V-4           | 4"BSP        |                   | 13.4 | 11.6 | 10  | 8.1 | 5    |
| OSP-46/2-BB(P4)50(4X6) | 2.2  | 3    | 2-BB  | V-4           | 4"BSP        |                   | 19   | 16   | 14  | 9   | 1    |
| OSP-46/2(P4)50(4X6)    | 3    | 4    | 2     | V-4           | 4"BSP        |                   | 27   | 23   | 20  | 16  | 10   |
| OSP-46/3-C(P4)50(6X6)  | 4.0  | 5.5  | 3-C   | V-6           | 4"BSP        |                   | 36   | 30   | 26  | 19  | 10   |
| OSP-46/3(P4)50(6X6)    | 5.5  | 7.5  | 3     | V-6           | 4"BSP        |                   | 40   | 35   | 30  | 24  | 15   |
| OSP-46/4-C(P4)50(6X6)  | 5.5  | 7.5  | 4-C   | V-6           | 4"BSP        |                   | 49   | 42   | 36  | 27  | 15   |
| OSP-46/4(P4)50(6X6)    | 7.5  | 10   | 4     | V-6           | 4"BSP        |                   | 54   | 46   | 40  | 32  | 20   |
| OSP-46/5(P4)50(6X6)    | 7.5  | 10   | 5     | V-6           | 4"BSP        |                   | 67   | 58   | 50  | 41  | 25   |
| OSP-46/6(P4)50(6X6)    | 9.3  | 12.5 | 6     | V-6           | 4"BSP        |                   | 80   | 70   | 60  | 49  | 30   |
| OSP-46/7(P4)50(6X6)    | 11   | 15   | 7     | V-6           | 4"BSP        |                   | 94   | 81   | 70  | 57  | 35   |
| OSP-46/8-C(P4)50(6X6)  | 11   | 15   | 8-C   | V-6           | 4"BSP        |                   | 103  | 88   | 76  | 60  | 35   |
| OSP-46/8(P4)50(6X6)    | 13   | 17.5 | 8     | V-6           | 4"BSP        |                   | 107  | 93   | 80  | 65  | 0    |
| OSP-46/9-C(P4)50(6X6)  | 13   | 17.5 | 9-C   | V-6           | 4"BSP        |                   | 116  | 100  | 86  | 68  | 40   |
| OSP-46/9(P4)50(6X6)    | 15   | 20   | 9     | V-6           | 4"BSP        |                   | 121  | 104  | 90  | 73  | 45   |
| OSP-46/10(P4)50(6X6)   | 15   | 20   | 10    | V-6           | 4"BSP        |                   | 134  | 116  | 100 | 81  | 50   |
| OSP-46/11(P4)50(6X6)   | 18.5 | 25   | 11    | V-6           | 4"BSP        |                   | 147  | 128  | 110 | 89  | 55   |
| OSP-46/12(P4)50(6X6)   | 18.5 | 25   | 12    | V-6           | 4"BSP        |                   | 161  | 139  | 120 | 97  | 60   |
| OSP-46/13(P4)50(6X6)   | 22   | 30   | 13    | V-6           | 4"BSP        |                   | 174  | 151  | 130 | 105 | 65   |
| OSP-46/14(P4)50(6X6)   | 22   | 30   | 14    | V-6           | 4"BSP        |                   | 188  | 162  | 140 | 113 | 70   |
| OSP-46/15(P4)50(6X6)   | 22   | 30   | 15    | V-6           | 4"BSP        |                   | 201  | 174  | 150 | 122 | 75   |
| OSP-46/16(P4)50(6X6)   | 26   | 35   | 16    | V-6           | 4"BSP        |                   | 214  | 186  | 160 | 130 | 80   |
| OSP-46/17(P4)50(6X6)   | 26   | 35   | 17    | V-6           | 4"BSP        |                   | 228  | 197  | 170 | 138 | 85   |
| OSP-46/18(P4)50(6X6)   | 30   | 40   | 18    | V-6           | 4"BSP        |                   | 241  | 209  | 180 | 146 | 90   |
| OSP-46/19(P4)50(6X6)   | 30   | 40   | 19    | V-6           | 4"BSP        |                   | 255  | 220  | 190 | 154 | 95   |
| OSP-46/20(P4)50(6X6)   | 30   | 40   | 20    | V-6           | 4"BSP        |                   | 268  | 232  | 200 | 162 | 100  |
| OSP-46/21(P4)50(6X6)   | 37   | 50   | 21    | V-6           | 4"BSP        |                   | 281  | 244  | 210 | 170 | 105  |
| OSP-46/22(P4)50(6X6)   | 37   | 50   | 22    | V-6           | 4"BSP        |                   | 295  | 255  | 220 | 178 | 110  |
| OSP-46/23(P4)50(6X6)   | 37   | 50   | 23    | V-6           | 4"BSP        |                   | 308  | 267  | 230 | 186 | 115  |
| OSP-46/24(P4)50(6X6)   | 37   | 50   | 24    | V-6           | 4"BSP        |                   | 322  | 278  | 240 | 194 | 120  |
| OSP-46/26(P4)50(6X6)   | 45   | 60   | 26    | V-6           | 4"BSP        |                   | 348  | 302  | 260 | 211 | 130  |
| OSP-46/28(P4)50(6X6)   | 45   | 60   | 28    | V-6           | 4"BSP        |                   | 375  | 325  | 280 | 227 | 140  |
| OSP-46/30(P4)50(6X6)   | 45   | 60   | 30    | V-6           | 4"BSP        |                   | 402  | 348  | 300 | 243 | 150  |
| OSP-46/33(P4)50(8X6)   | 55   | 75   | 33    | V-8           | 4"BSP        |                   | 442  | 383  | 330 | 267 | 165  |
| OSP-46/35(P4)50( 8x6 ) | 55   | 75   | 35    | V-8           | 4"BSP        |                   | 469  | 406  | 350 | 284 | 175  |
| OSP-46/37(P4)50( 8x6 ) | 55   | 75   | 37    | V-8           | 4"BSP        |                   | 496  | 429  | 370 | 300 | 185  |

## Technical Data

## Submersible Pump OSP-46

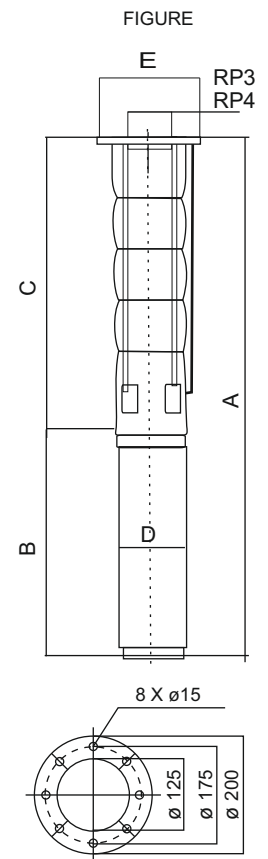
| PUMP MODEL             | STAGE | MOTOR         |              | PUMP   |     |     | Weight<br>Kg | MOTOR<br>OD<br>D |
|------------------------|-------|---------------|--------------|--------|-----|-----|--------------|------------------|
|                        |       | JOINING MOTOR | POWER ( KW ) | Length |     |     |              |                  |
|                        |       |               |              | C      | E*  | E** |              |                  |
| OSP-46/1-B(P4)50(4X6)  | 1-B   | V-4           | 1.1          | 393    | 145 |     | 7.45         | 97               |
| OSP-46/1(P4)50(4X6)    | 1     | V-4           | 2.2          | 393    | 147 | 152 | 7.45         | 97               |
| OSP-46/2-BB(P4)50(4X6) | 2-BB  | V-4           | 2.2          | 506    | 147 | 152 | 9.81         | 97               |
| OSP-46/2(P4)50(4X6)    | 2     | V-4           | 3.0          | 506    | 147 | 152 | 9.81         | 97               |
| OSP-46/3-C(P4)50(6X6)  | 3-C   | V-6           | 4.0          | 619    | 147 | 152 | 12.94        | 144              |
| OSP-46/3(P4)50(6X6)    | 3     | V-6           | 5.5          | 619    | 147 | 152 | 12.94        | 144              |
| OSP-46/4-C(P4)50(6X6)  | 4-C   | V-6           | 5.5          | 732    | 147 | 152 | 15.30        | 144              |
| OSP-46/4(P4)50(6X6)    | 4     | V-6           | 7.5          | 732    | 147 | 152 | 15.30        | 144              |
| OSP-46/5(P4)50(6X6)    | 5     | V-6           | 7.5          | 845    | 147 | 152 | 17.66        | 144              |
| OSP-46/6(P4)50(6X6)    | 6     | V-6           | 9.3          | 958    | 147 | 152 | 20.03        | 144              |
| OSP-46/7(P4)50(6X6)    | 7     | V-6           | 11.0         | 1071   | 147 | 152 | 22.39        | 144              |
| OSP-46/8-C(P4)50(6X6)  | 8-C   | V-6           | 11.0         | 1184   | 147 | 152 | 24.75        | 144              |
| OSP-46/8(P4)50(6X6)    | 8     | V-6           | 13.0         | 1184   | 147 | 152 | 24.75        | 144              |
| OSP-46/9-C(P4)50(6X6)  | 9-C   | V-6           | 13.0         | 1297   | 147 | 152 | 27.11        | 144              |
| OSP-46/9(P4)50(6X6)    | 9     | V-6           | 15.0         | 1297   | 147 | 152 | 27.11        | 144              |
| OSP-46/10(P4)50(6X6)   | 10    | V-6           | 15.0         | 1410   | 147 | 152 | 29.47        | 144              |
| OSP-46/11(P4)50(6X6)   | 11    | V-6           | 18.5         | 1523   | 147 | 152 | 31.84        | 144              |
| OSP-46/12(P4)50(6X6)   | 12    | V-6           | 18.5         | 1636   | 147 | 152 | 34.20        | 144              |
| OSP-46/13(P4)50(6X6)   | 13    | V-6           | 22.0         | 1749   | 147 | 152 | 36.56        | 144              |
| OSP-46/14(P4)50(6X6)   | 14    | V-6           | 22.0         | 1862   | 147 | 152 | 38.92        | 144              |
| OSP-46/15(P4)50(6X6)   | 15    | V-6           | 22.0         | 1975   | 147 | 152 | 41.28        | 144              |
| OSP-46/16(P4)50(6X6)   | 16    | V-6           | 26.0         | 2088   | 147 | 152 | 43.65        | 144              |
| OSP-46/17(P4)50(6X6)   | 17    | V-6           | 26.0         | 2201   | 147 | 152 | 46.01        | 144              |
| OSP-46/18(P4)50(6X6)   | 18    | V-6           | 30.0         | 2314   | 147 | 152 | 48.37        | 144              |
| OSP-46/19(P4)50(6X6)   | 19    | V-6           | 30.0         | 2427   | 147 | 152 | 50.73        | 144              |
| OSP-46/20(P4)50(6X6)   | 20    | V-6           | 30.0         | 2540   | 147 | 152 | 53.09        | 144              |
| OSP-46/21(P4)50(6X6)   | 21    | V-6           | 37.0         | 2653   | 147 | 152 | 55.46        | 144              |
| OSP-46/22(P4)50(6X6)   | 22    | V-6           | 37.0         | 2766   | 147 | 152 | 57.82        | 144              |
| OSP-46/23(P4)50(6X6)   | 23    | V-6           | 37.0         | 2879   | 147 | 152 | 60.18        | 144              |
| OSP-46/24(P4)50(6X6)   | 24    | V-6           | 37.0         | 2992   | 147 | 152 | 62.54        | 144              |
| OSP-46/25(P4)50(6X6)   | 25    | V-6           | 45.0         | 3105   | 147 | 152 | 64.90        | 144              |
| OSP-46/28(P4)50(6X6)   | 28    | V-6           | 45.0         | 3444   | 147 | 188 | 71.99        | 144              |
| OSP-46/30(P4)50(6X6)   | 30    | V-6           | 45.0         | 3670   | 147 | 152 | 76.71        | 144              |
| OSP-46/33(P4)50( 8x6 ) | 33    | V-8           | 55.0         | 4044   | 188 | 188 | 89.90        | 189              |
| OSP-46/35(P4)50(8X6)   | 35    | V-8           | 55.0         | 4270   | 188 | 188 | 94.63        | 189              |
| OSP-46/37(P4)50(8X6)   | 37    | V-8           | 55.0         | 4496   | 188 | 188 | 99.35        | 189              |

FROM : 21 STAGE TO 30 STAGE ALSO AVAILABLE WITH 8" MOTOR JOINING (8X6)

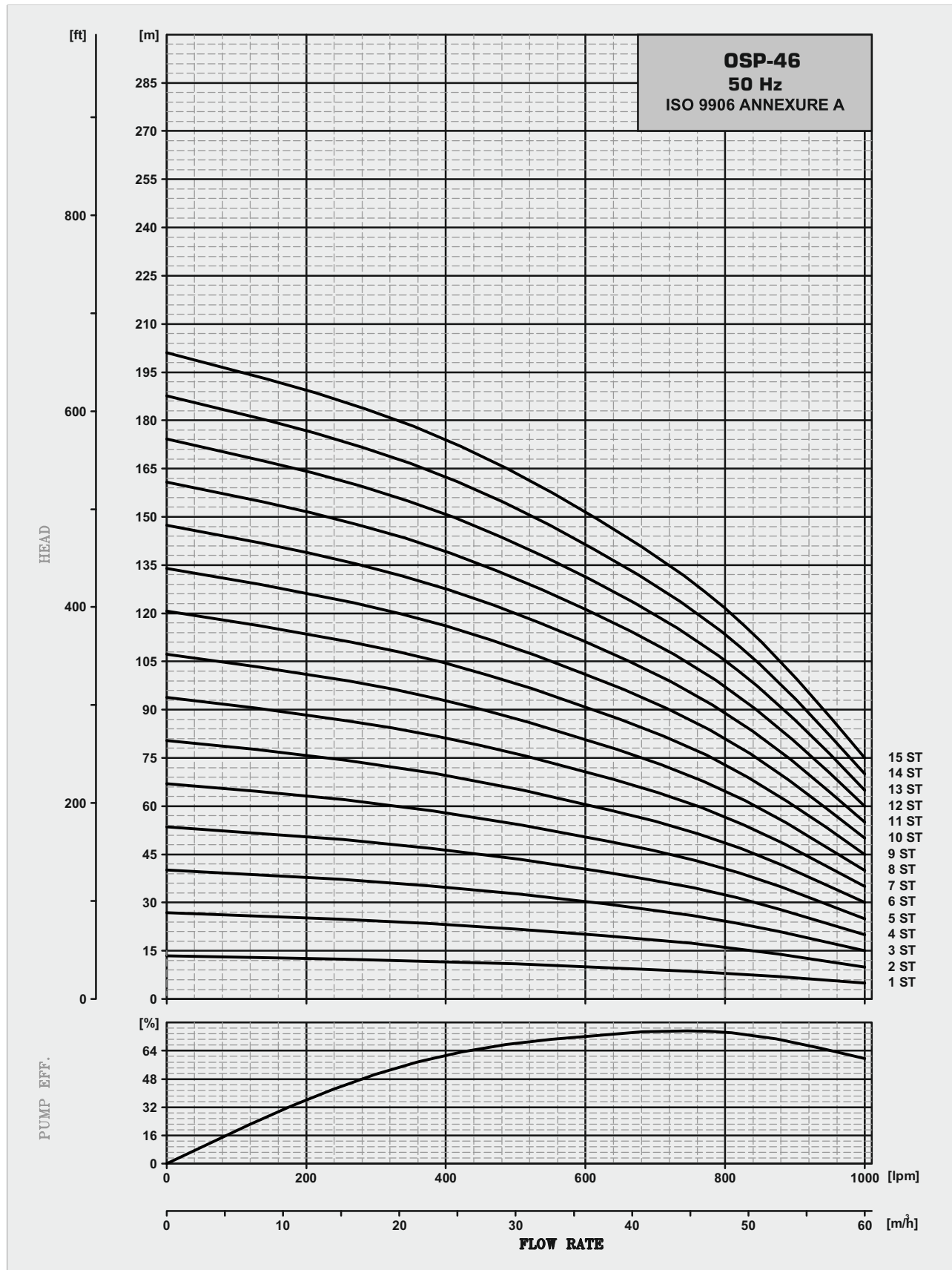
\* MAX.DIA OF PUMP WITH ONE MOTOR CABLE

\*\* MAX.DIA OF PUMP WITH TWO MOTOR CABLE

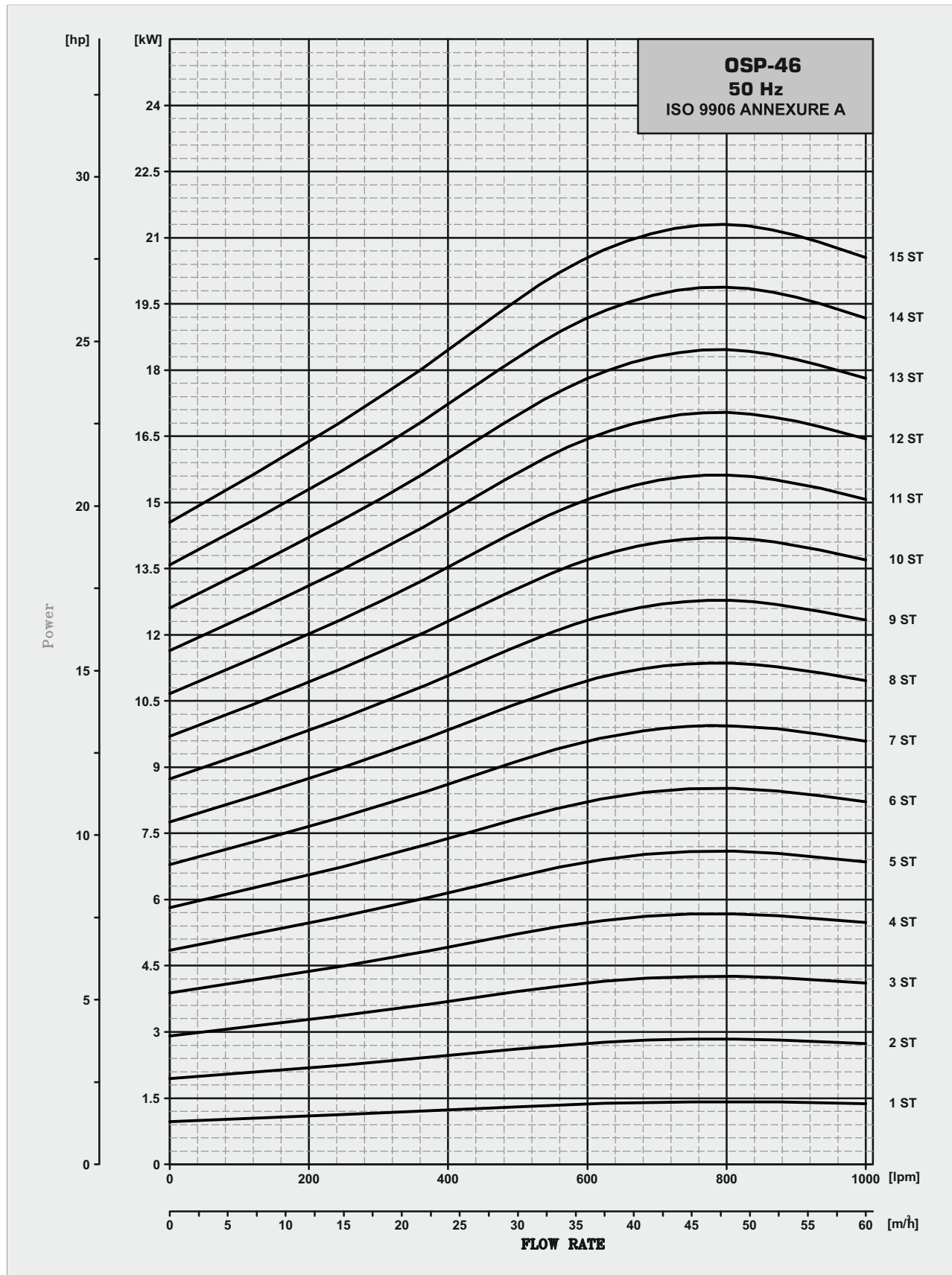
NOTE- (S) =MEANS PUMP WITH SLEEVE (EXTERNAL JACKET)



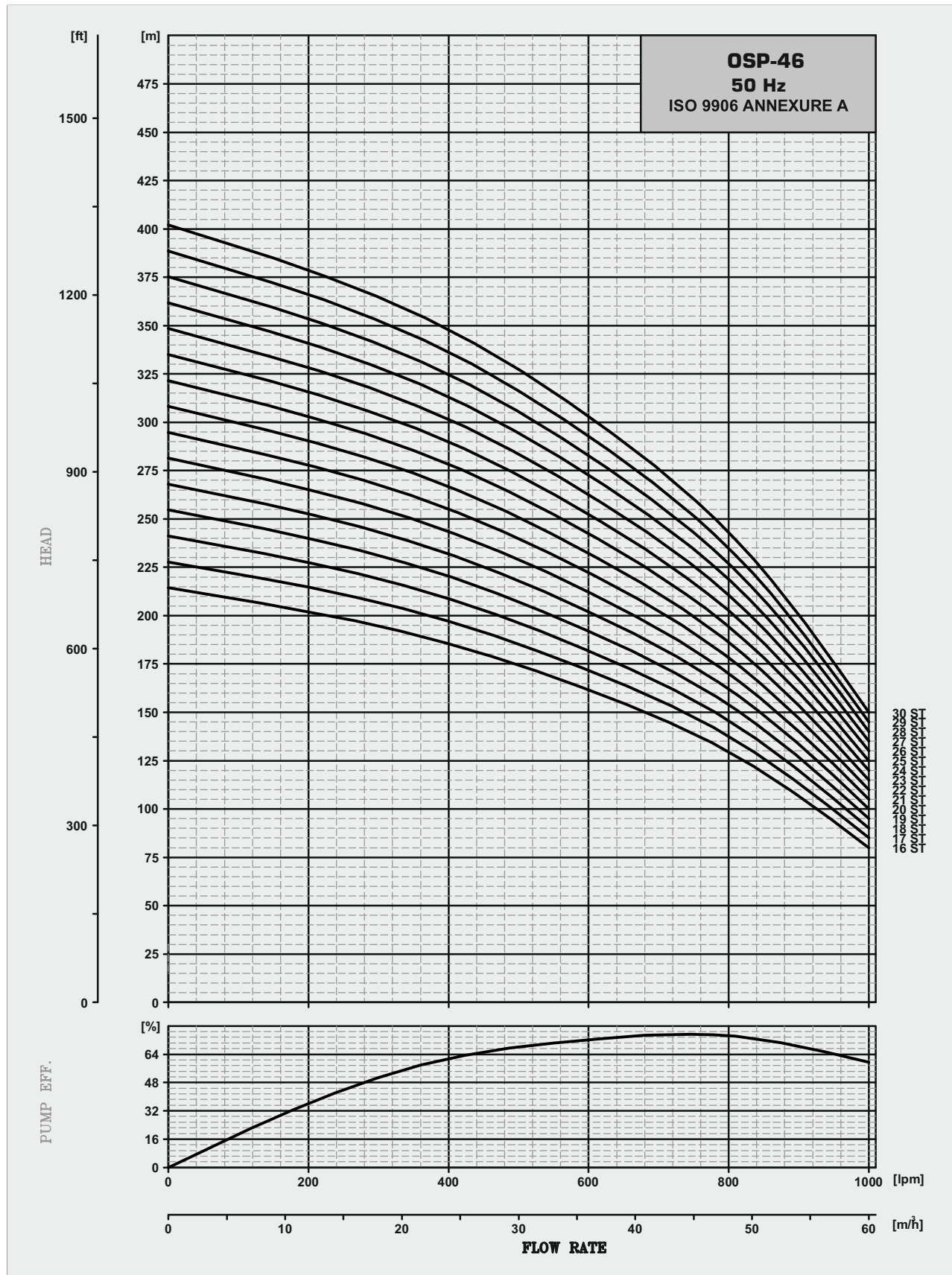
## Performance Curves



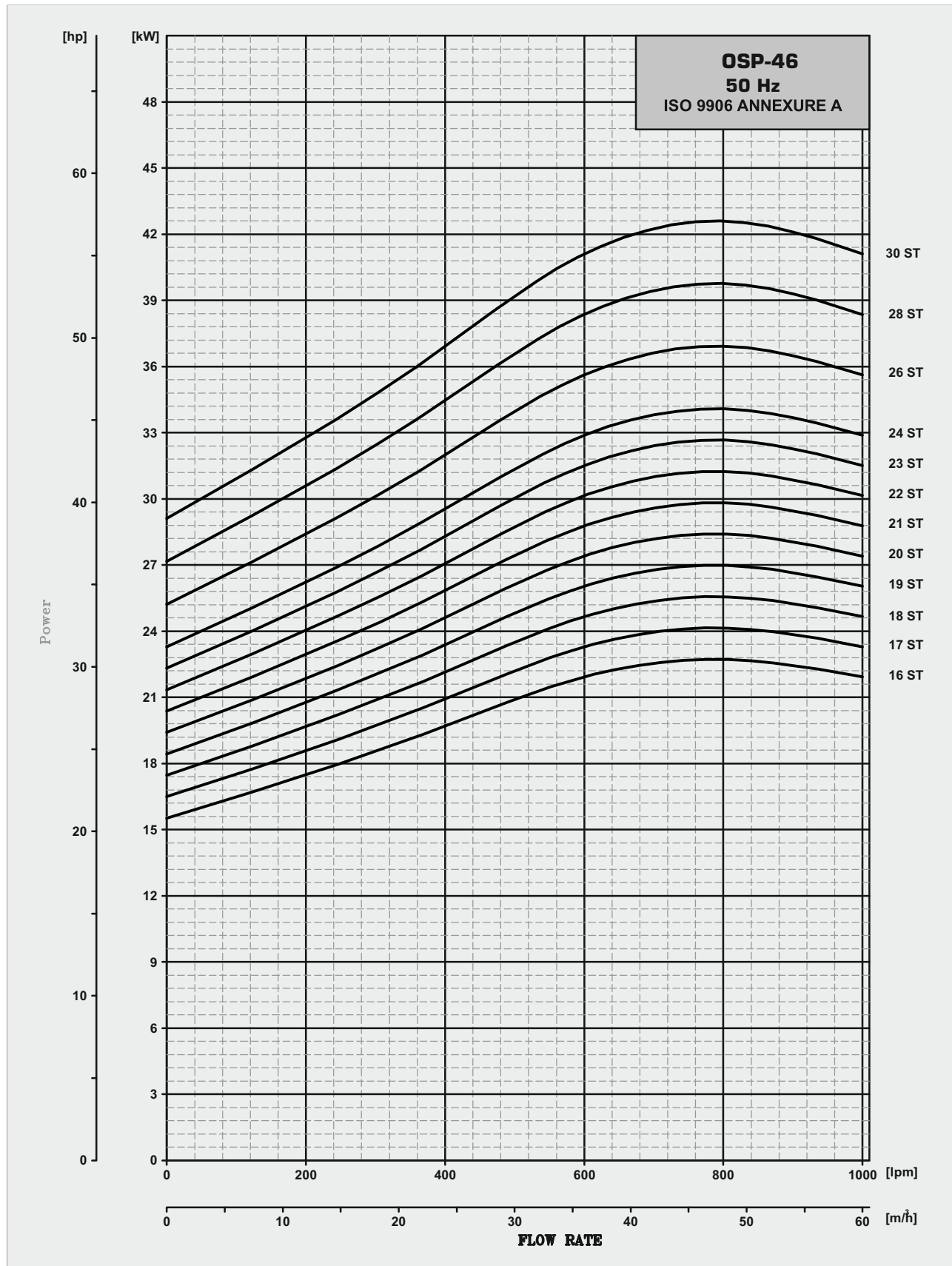
## Power Curves



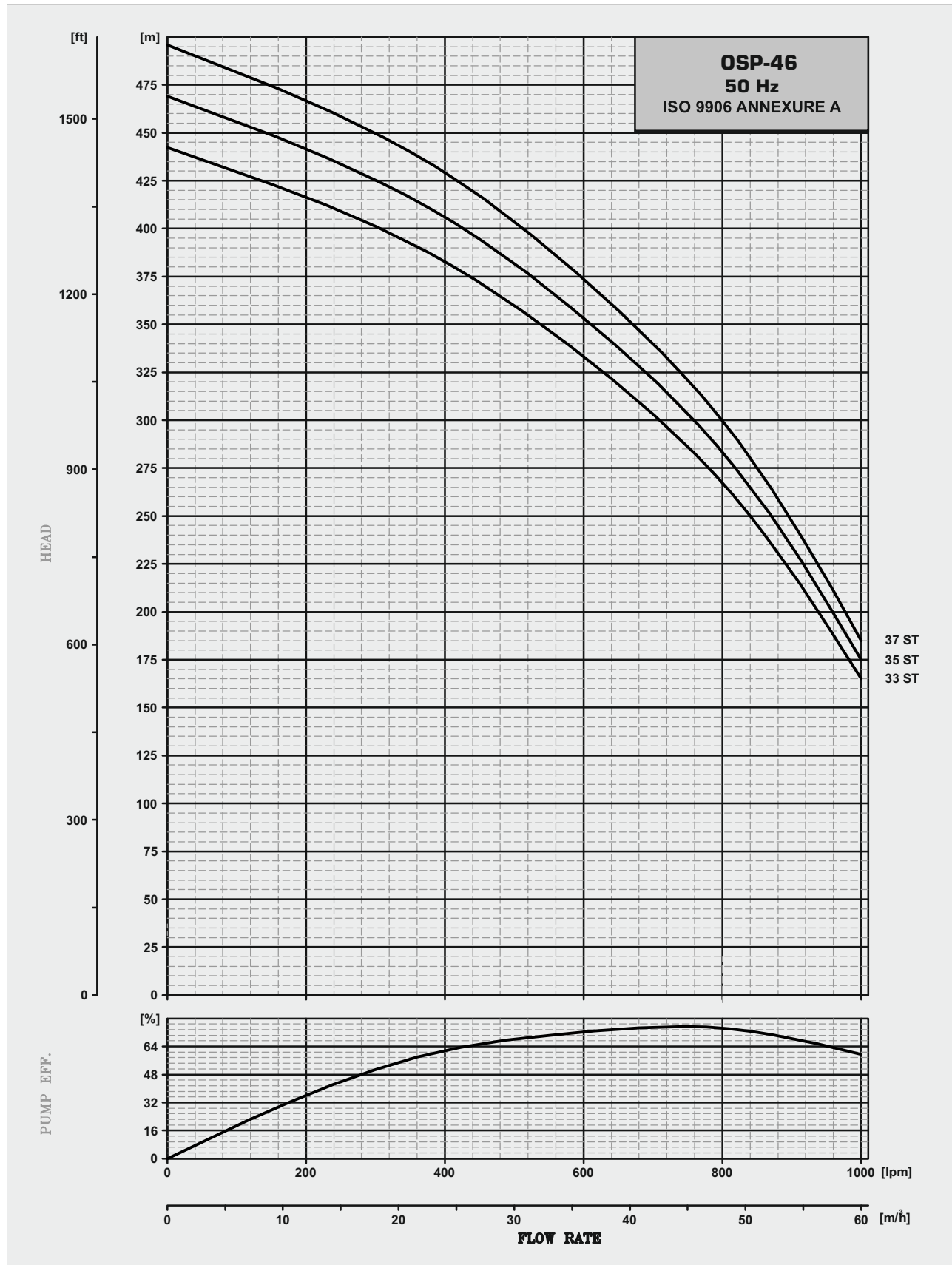
## Performance Curves



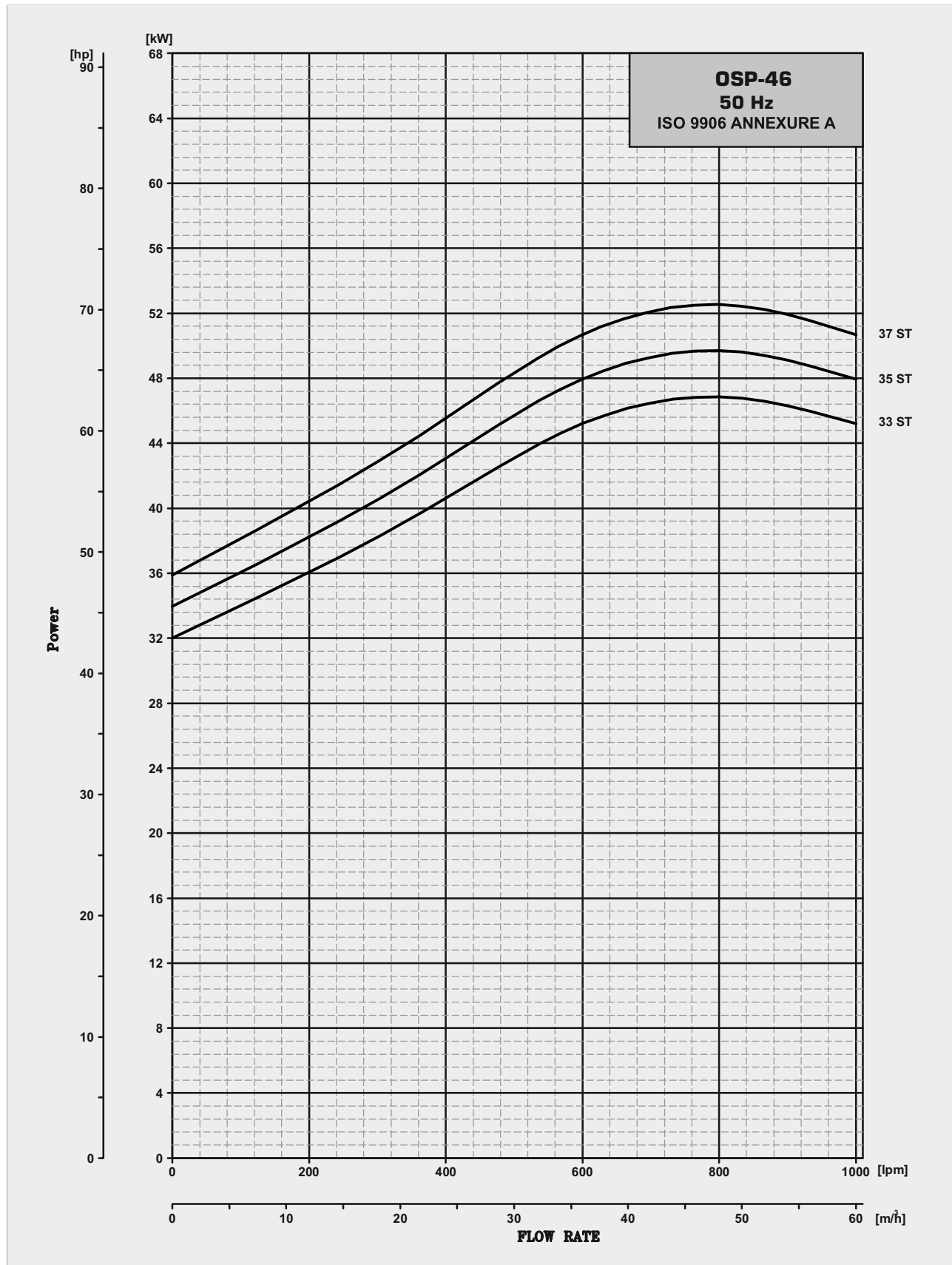
## Power Curves



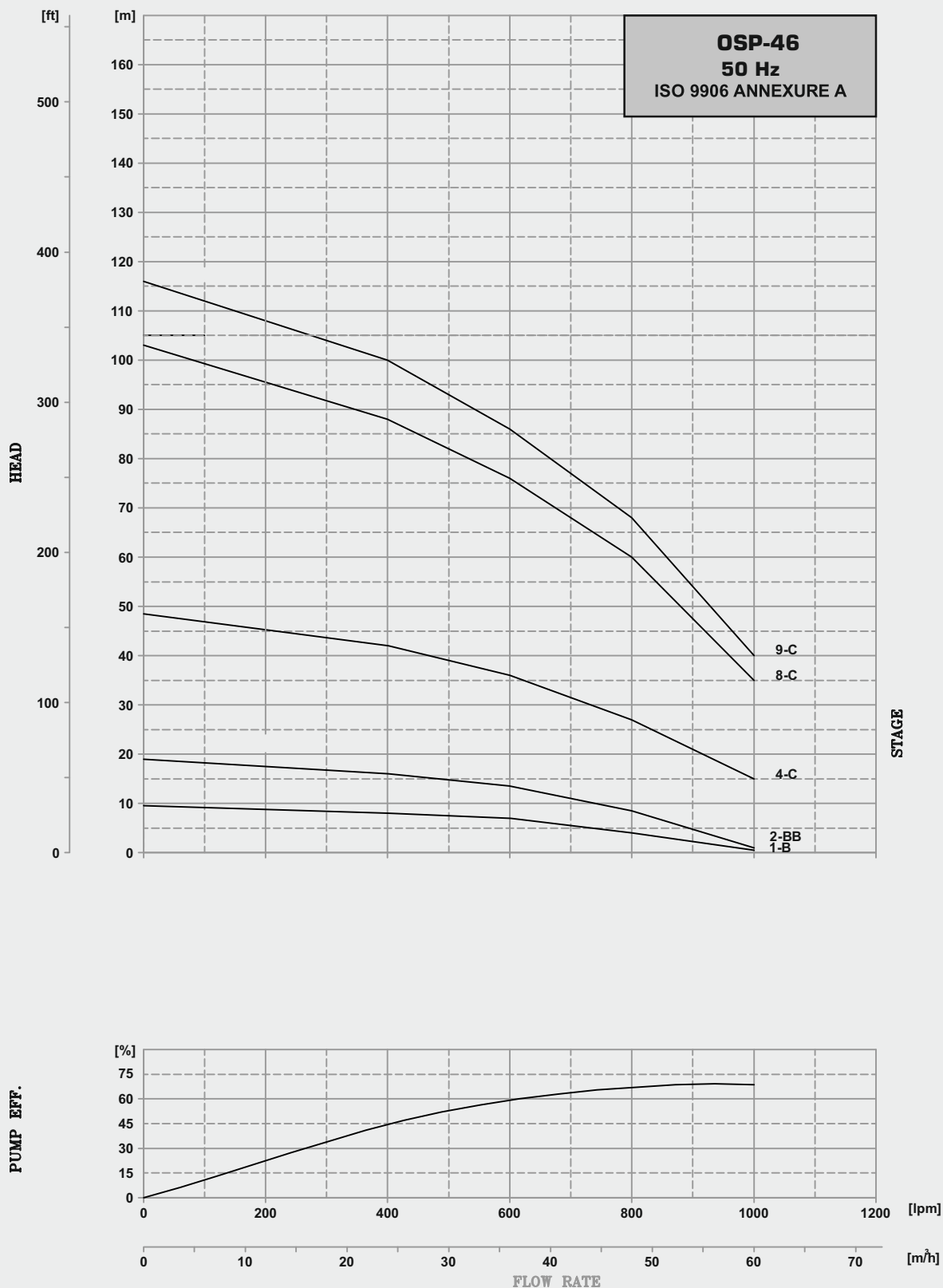
## Performance Curves



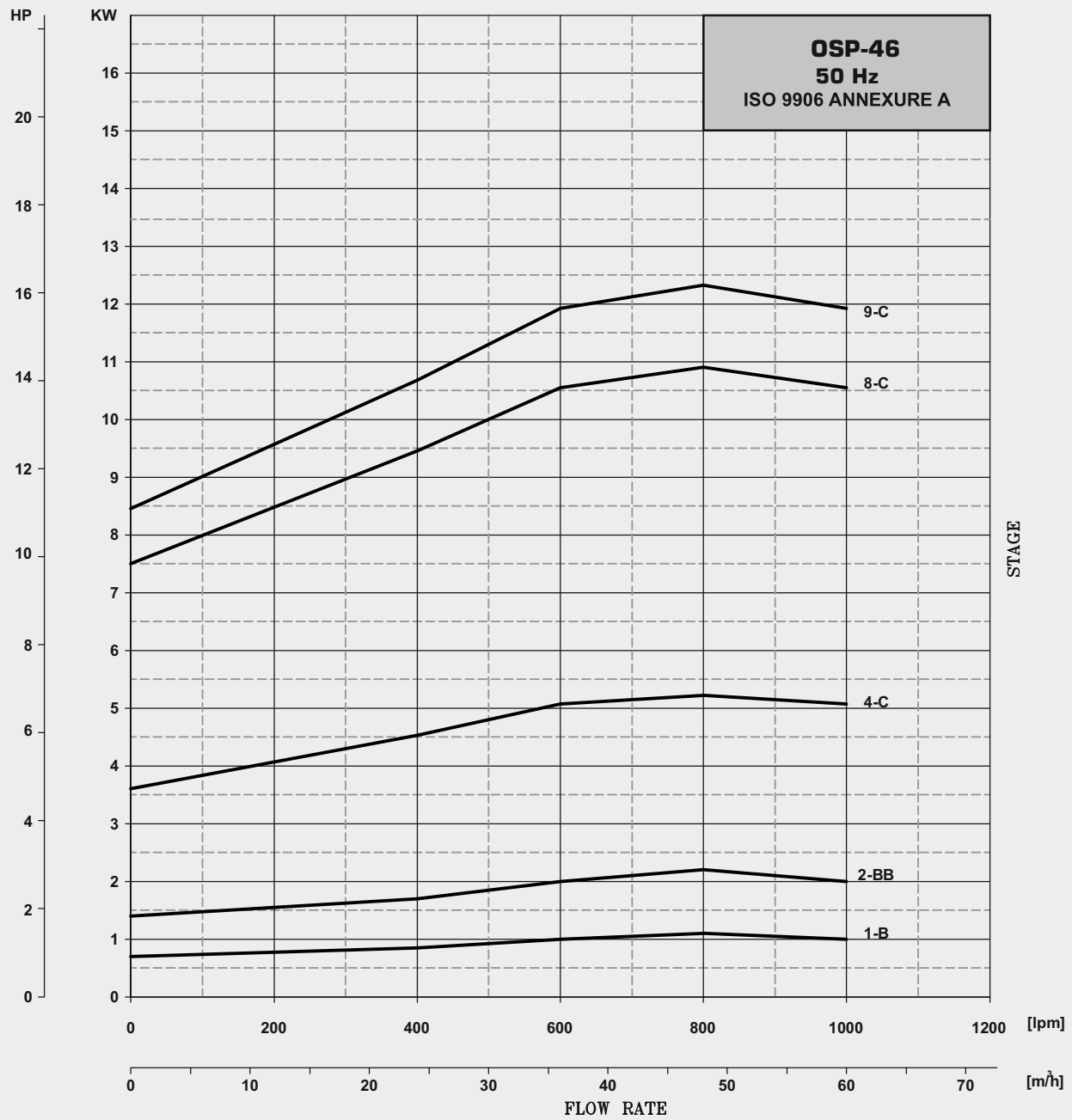
## Power Curves



## Performance Curves



## Power Curves



## Performance Table

### Submersible Pump OSP- 60

| MODEL OSP-60           | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge         |      |      |      |     |      |      |
|------------------------|------|------|-------|---------------|--------------|-------------------|------|------|------|-----|------|------|
|                        |      |      |       |               |              | M <sup>3</sup> /H | 0    | 24   | 36   | 48  | 60   | 72   |
|                        |      |      |       |               |              | (LPM)             | 0    | 400  | 600  | 800 | 1000 | 1200 |
| OSP-60/1-A (P4)50(4x6) | 1.5  | 2    | 1-A   | V-4           | 4"BSP        | HEAD IN METERS    | 11   | 9    | 7    | 6   | 4    | 0    |
| OSP-60/1(P4)50(4x6)    | 2.2  | 3    | 1     | V-4           | 4"BSP        |                   | 14.2 | 12.8 | 11.0 | 9.4 | 7.7  | 5.5  |
| OSP-60/2-B(P4)50(4x6)  | 3    | 4    | 2-B   | V-4           | 4"BSP        |                   | 21   | 20   | 16   | 14  | 10   | 6    |
| OSP-60/2(P4)50(6X6)    | 4.0  | 5.5  | 2     | V-6           | 4"BSP        |                   | 28   | 26   | 22   | 19  | 15   | 11   |
| OSP-60/3(P4)50(6X6)    | 5.5  | 7.5  | 3     | V-6           | 4"BSP        |                   | 43   | 38   | 33   | 28  | 23   | 17   |
| OSP-60/4(P4)50(6X6)    | 7.5  | 10   | 4     | V-6           | 4"BSP        |                   | 57   | 51   | 44   | 38  | 31   | 22   |
| OSP-60/5(P4)50(6X6)    | 9.3  | 12.5 | 5     | V-6           | 4"BSP        |                   | 71   | 64   | 55   | 47  | 39   | 28   |
| OSP-60/6(P4)50(6X6)    | 11   | 15   | 6     | V-6           | 4"BSP        |                   | 85   | 77   | 66   | 56  | 46   | 33   |
| OSP-60/7(P4)50(6X6)    | 13   | 17.5 | 7     | V-6           | 4"BSP        |                   | 99   | 90   | 77   | 66  | 54   | 39   |
| OSP-60/8-B(P4)50(6X6)  | 13   | 17.5 | 8-B   | V-6           | 4"BSP        |                   | 106  | 97   | 82   | 70  | 56   | 39   |
| OSP-60/8(P4)50(6X6)    | 15   | 20   | 8     | V-6           | 4"BSP        |                   | 114  | 102  | 88   | 75  | 62   | 44   |
| OSP-60/9-B(P4)50(6X6)  | 15   | 20   | 9-B   | V-6           | 4"BSP        |                   | 121  | 109  | 93   | 79  | 64   | 44   |
| OSP-60/9(P4)50(6X6)    | 18.5 | 25   | 9     | V-6           | 4"BSP        |                   | 128  | 115  | 99   | 85  | 69   | 50   |
| OSP-60/10(P4)50(6X6)   | 18.5 | 25   | 10    | V-6           | 4"BSP        |                   | 142  | 128  | 110  | 94  | 77   | 55   |
| OSP-60/11(P4)50(6X6)   | 22   | 30   | 11    | V-6           | 4"BSP        |                   | 156  | 141  | 121  | 103 | 85   | 61   |
| OSP-60/12(P4)50(6X6)   | 22   | 30   | 12    | V-6           | 4"BSP        |                   | 170  | 154  | 132  | 113 | 92   | 66   |
| OSP-60/13(P4)50(6X6)   | 26   | 35   | 13    | V-6           | 4"BSP        |                   | 185  | 166  | 143  | 122 | 100  | 72   |
| OSP-60/14(P4)50(6X6)   | 26   | 35   | 14    | V-6           | 4"BSP        |                   | 199  | 179  | 154  | 132 | 108  | 77   |
| OSP-60/15(P4)50(6X6)   | 26   | 35   | 15    | V-6           | 4"BSP        |                   | 213  | 192  | 165  | 141 | 116  | 83   |
| OSP-60/16(P4)50(6X6)   | 30   | 40   | 16    | V-4           | 4"BSP        |                   | 227  | 205  | 176  | 150 | 123  | 88   |
| OSP-60/17(P4)50(6X6)   | 30   | 40   | 17    | V-6           | 4"BSP        |                   | 241  | 218  | 187  | 160 | 131  | 94   |
| OSP-60/18(P4)50(6X6)   | 37   | 50   | 18    | V-6           | 4"BSP        |                   | 256  | 230  | 198  | 169 | 139  | 99   |
| OSP-60/19(P4)50(6X6)   | 37   | 50   | 19    | V-6           | 4"BSP        |                   | 270  | 243  | 209  | 179 | 146  | 105  |
| OSP-60/20(P4)50(6X6)   | 37   | 50   | 20    | V-6           | 4"BSP        |                   | 284  | 256  | 220  | 188 | 154  | 110  |
| OSP-60/21(P4)50(6X6)   | 37   | 50   | 21    | V-6           | 4"BSP        |                   | 298  | 269  | 231  | 197 | 162  | 116  |
| OSP-60/22(P4)50(6X6)   | 45   | 60   | 22    | V-6           | 4"BSP        |                   | 312  | 282  | 242  | 207 | 169  | 121  |
| OSP-60/24(P4)50(6X6)   | 45   | 60   | 24    | V-6           | 4"BSP        |                   | 341  | 307  | 264  | 226 | 185  | 132  |
| OSP-60/26(P4)50(8X6)   | 55   | 75   | 26    | V-8           | 4"BSP        |                   | 369  | 333  | 286  | 244 | 200  | 143  |
| OSP-60/28(P4)50(8X6)   | 55   | 75   | 28    | V-8           | 4"BSP        |                   | 398  | 358  | 308  | 263 | 216  | 154  |
| OSP-60/30(P4)50(8X6)   | 55   | 75   | 30    | V-8           | 4"BSP        |                   | 426  | 384  | 330  | 282 | 231  | 165  |

# Technical Data

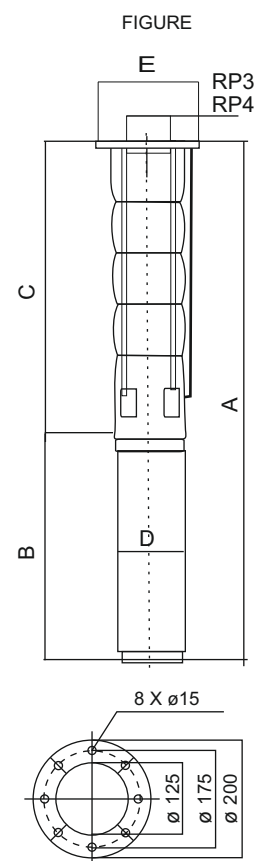
## Submersible Pump OSP- 60

| PUMP<br>MODEL         | STAGE | MOTOR            |                 | PUMP   |     |     | MOTOR  |     |
|-----------------------|-------|------------------|-----------------|--------|-----|-----|--------|-----|
|                       |       | JOINING<br>MOTOR | POWER<br>( KW ) | Length |     |     | Weight | OD  |
|                       |       |                  |                 | C      | E*  | E** | Kg     | D   |
| OSP-60/1-A(P4)50(4x6) | 1-A   | V-4              | 1.5             | 393    | 145 |     | 7.45   | 97  |
| OSP-60/1(P4)50(4x6)   | 1     | V-4              | 2.2             | 393    | 147 | 152 | 7.45   | 97  |
| OSP-60/2-B(P4)50(4x6) | 2-B   | V-4              | 3.0             | 506    | 147 | 152 | 9.81   | 97  |
| OSP-60/2(P4)50(6X6)   | 2     | V-6              | 4.0             | 506    | 147 | 152 | 10.58  | 144 |
| OSP-60/3(P4)50(6X6)   | 3     | V-6              | 5.5             | 619    | 147 | 152 | 12.94  | 144 |
| OSP-60/4(P4)50(6X6)   | 4     | V-6              | 7.5             | 732    | 147 | 152 | 15.30  | 144 |
| OSP-60/5(P4)50(6X6)   | 5     | V-6              | 9.3             | 845    | 147 | 152 | 17.66  | 144 |
| OSP-60/6(P4)50(6X6)   | 6     | V-6              | 11.0            | 958    | 147 | 152 | 20.03  | 144 |
| OSP-60/7(P4)50(6X6)   | 7     | V-6              | 13.0            | 1071   | 147 | 152 | 22.39  | 144 |
| OSP-60/8-B(P4)50(6X6) | 8-B   | V-6              | 13.0            | 1184   | 147 | 152 | 24.75  | 144 |
| OSP-60/8(P4)50(6X6)   | 8     | V-6              | 15.0            | 1184   | 147 | 152 | 24.75  | 144 |
| OSP-60/9-B(P4)50(6X6) | 9-B   | V-6              | 15.0            | 1297   | 147 | 152 | 27.11  | 144 |
| OSP-60/9(P4)50(6X6)   | 9     | V-6              | 18.5            | 1297   | 147 | 152 | 27.11  | 144 |
| OSP-60/10(P4)50(6X6)  | 10    | V-6              | 18.5            | 1410   | 147 | 152 | 29.47  | 144 |
| OSP-60/11(P4)50(6X6)  | 11    | V-6              | 22.0            | 1523   | 147 | 152 | 31.84  | 144 |
| OSP-60/12(P4)50(6X6)  | 12    | V-6              | 22.0            | 1636   | 147 | 152 | 34.20  | 144 |
| OSP-60/13(P4)50(6X6)  | 13    | V-6              | 26.0            | 1749   | 147 | 152 | 36.56  | 144 |
| OSP-60/14(P4)50(6X6)  | 14    | V-6              | 26.0            | 1862   | 147 | 152 | 38.92  | 144 |
| OSP-60/15(P4)50(6X6)  | 15    | V-6              | 26.0            | 1975   | 147 | 152 | 41.28  | 144 |
| OSP-60/16(P4)50(6X6)  | 16    | V-6              | 30.0            | 2088   | 188 | 188 | 43.65  | 144 |
| OSP-60/17(P4)50(6X6)  | 17    | V-6              | 30.0            | 2201   | 188 | 188 | 46.01  | 144 |
| OSP-60/18(P4)50(6X6)  | 18    | V-6              | 37.0            | 2314   | 188 | 188 | 48.37  | 144 |
| OSP-60/19(P4)50(6X6)  | 19    | V-6              | 37.0            | 2427   | 188 | 188 | 50.73  | 144 |
| OSP-60/20(P4)50(6X6)  | 20    | V-6              | 37.0            | 2540   | 188 | 188 | 53.09  | 144 |
| OSP-60/21(P4)50(6X6)  | 21    | V-6              | 37.0            | 2653   | 188 | 188 | 55.46  | 144 |
| OSP-60/22(P4)50(6X6)  | 22    | V-6              | 45.0            | 2766   | 188 | 188 | 57.82  | 144 |
| OSP-60/24(P4)50(6X6)  | 24    | V-6              | 45.0            | 2992   | 188 | 188 | 62.54  | 144 |
| OSP-60/26(P4)50(8X6)  | 26    | V-8              | 55.0            | 3253   | 188 | 188 | 73.37  | 189 |
| OSP-60/28(P4)50(8X6)  | 28    | V-8              | 55.0            | 3479   | 188 | 188 | 78.09  | 189 |
| OSP-60/30(P4)50(8X6)  | 30    | V-8              | 55.0            | 3705   | 188 | 188 | 82.82  | 189 |

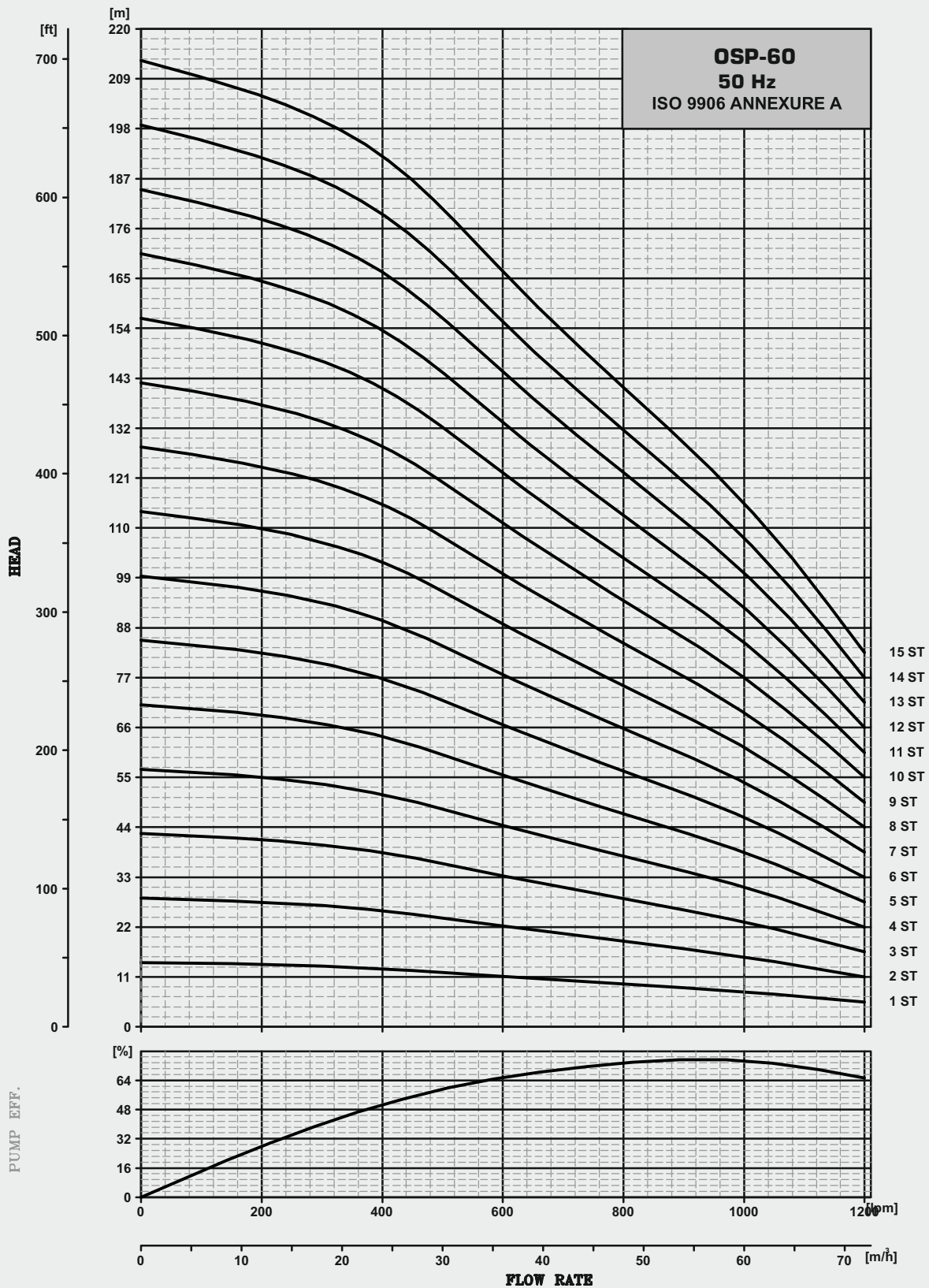
**NOTE-** (S) =MEANS PUMP WITH SLEEVE (EXTERNAL JACKET)

\* MAX.DIA OF PUMP WITH ONE MOTOR CABLE

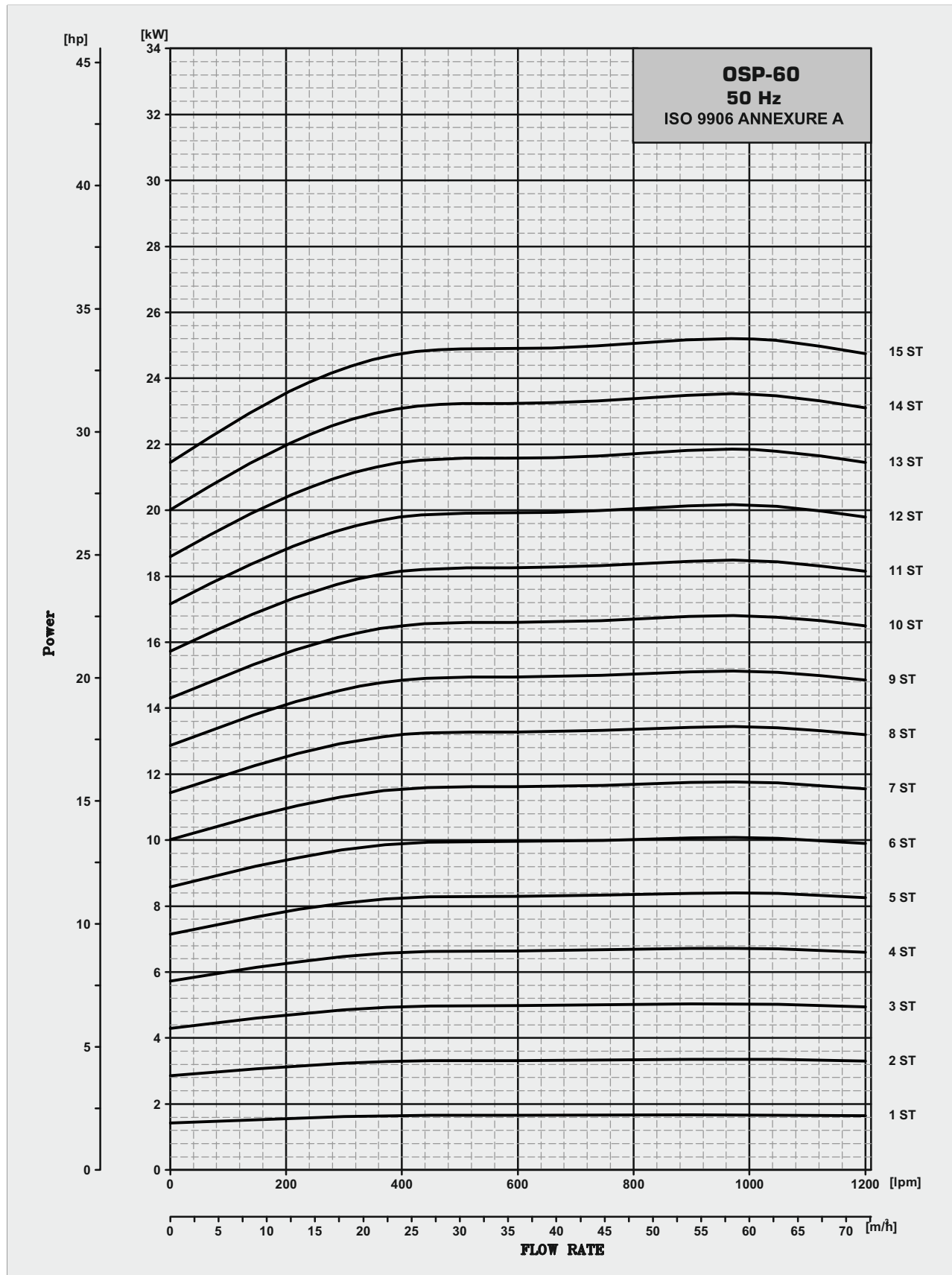
\*\* MAX.DIA OF PUMP WITH TWO MOTOR CABLE



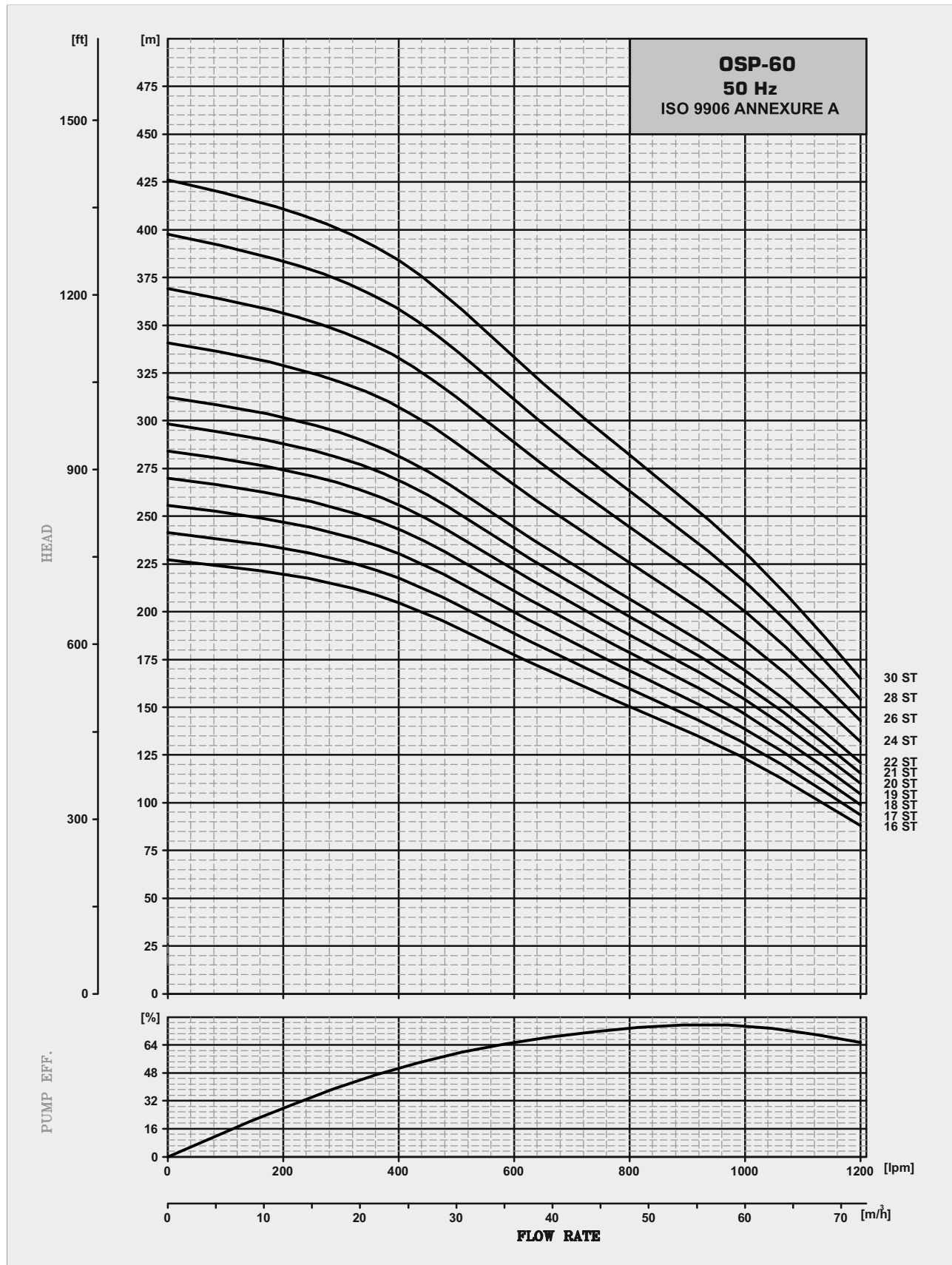
## Performance Curves



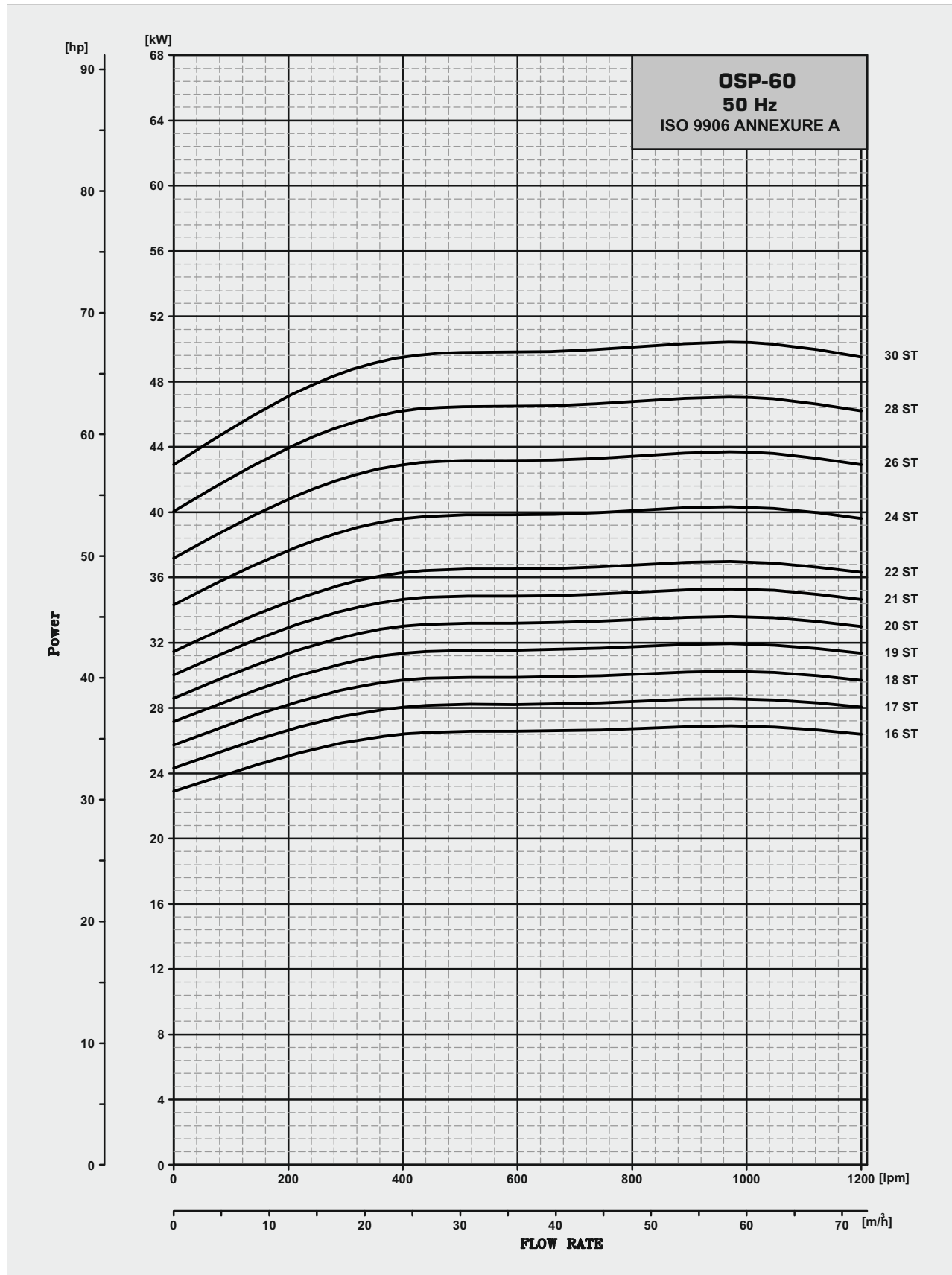
## Power Curves



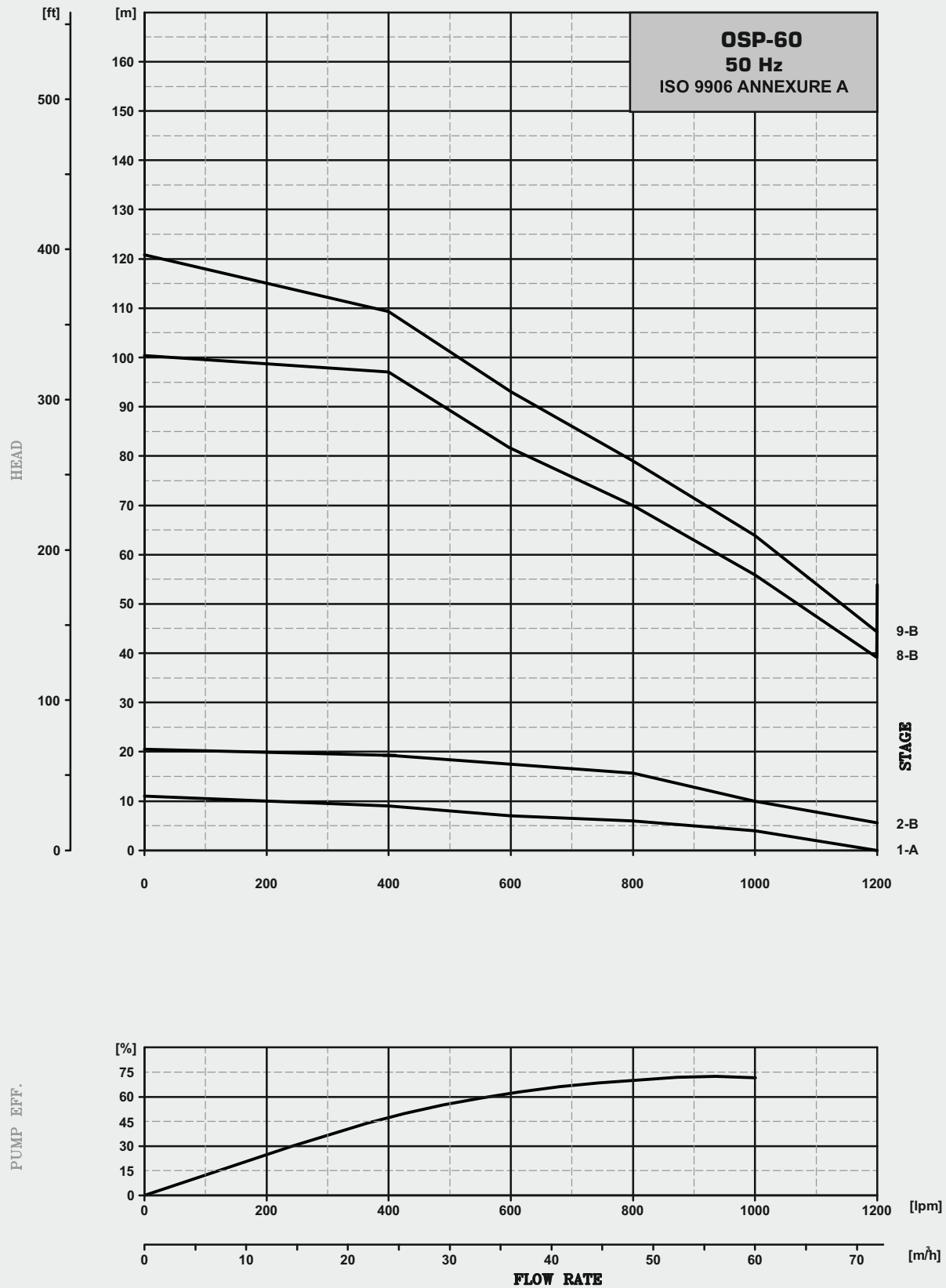
## Performance Curves



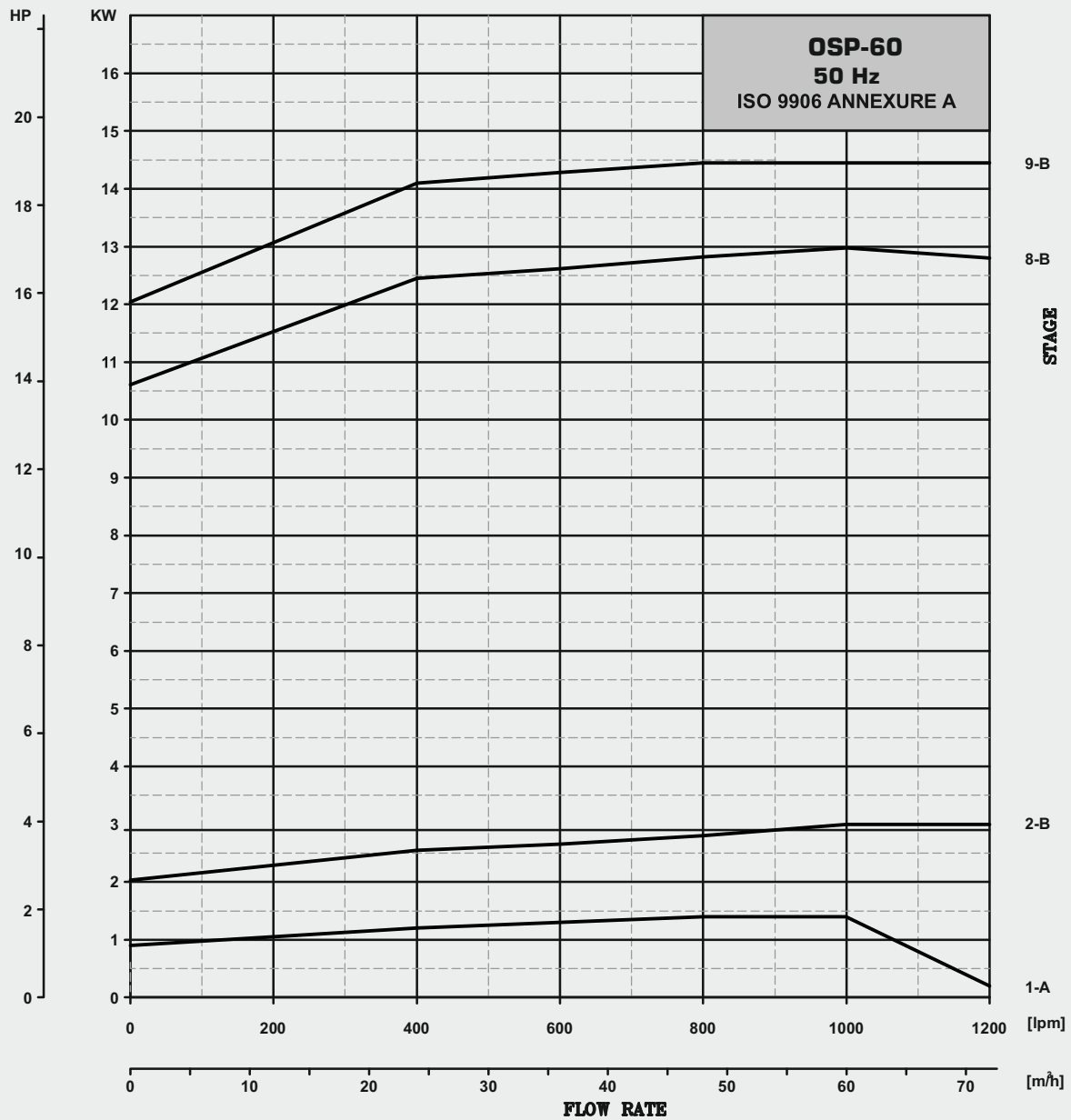
## Power Curves



## Performance Curves



## Power Curves



## Performance Table

### Submersible Pump OSP-40

| MODEL OSP-40         | K.W. | H.P. | Stage | Motor Joining | Out let Size | Discharge      |     |     |      |      |     |      |
|----------------------|------|------|-------|---------------|--------------|----------------|-----|-----|------|------|-----|------|
|                      |      |      |       |               |              | M³/H           | 0   | 18  | 31.5 | 40.5 | 48  | 63   |
|                      |      |      |       |               |              | (LPM)          | 0   | 300 | 525  | 675  | 800 | 1050 |
| OSP-40/3(P4)50(6X6)  | 4.0  | 5.5  | 3     | V-6           | 4"BSP        | HEAD IN METERS | 33  | 30  | 26   | 23   | 18  | 6    |
| OSP-40/4(P4)50(6X6)  | 5.5  | 7.5  | 4     | V-6           | 4"BSP        |                | 44  | 40  | 35   | 30   | 24  | 8    |
| OSP-40/5(P4)50(6X6)  | 7.5  | 10   | 5     | V-6           | 4"BSP        |                | 56  | 51  | 44   | 38   | 30  | 10   |
| OSP-40/6(P4)50(6X6)  | 7.5  | 10   | 6     | V- 6          | 4"BSP        |                | 67  | 61  | 52   | 46   | 36  | 11   |
| OSP-40/7(P4)50(6X6)  | 9.3  | 12.5 | 7     | V- 6          | 4"BSP        |                | 78  | 71  | 61   | 53   | 42  | 13   |
| OSP-40/8(P4)50(6X6)  | 11   | 15   | 8     | V-6           | 4"BSP        |                | 89  | 81  | 70   | 61   | 48  | 15   |
| OSP-40/9(P4)50(6X6)  | 11   | 15   | 9     | V-6           | 4"BSP        |                | 100 | 91  | 78   | 68   | 54  | 17   |
| OSP-40/10(P4)50(6X6) | 13   | 17.5 | 10    | V-6           | 4"BSP        |                | 111 | 101 | 87   | 76   | 60  | 19   |
| OSP-40/11(P4)50(6X6) | 15   | 20   | 11    | V- 6          | 4"BSP        |                | 122 | 111 | 96   | 84   | 66  | 21   |
| OSP-40/12(P4)50(6X6) | 15   | 20   | 12    | V- 6          | 4"BSP        |                | 133 | 121 | 104  | 91   | 72  | 23   |
| OSP-40/13(P4)50(6X6) | 18.5 | 25   | 13    | V-6           | 4"BSP        |                | 144 | 131 | 113  | 99   | 78  | 25   |
| OSP-40/14(P4)50(6X6) | 18.5 | 25   | 14    | V-6           | 4"BSP        |                | 155 | 141 | 122  | 106  | 84  | 27   |
| OSP-40/15(P4)50(6X6) | 22   | 30   | 15    | V-6           | 4"BSP        |                | 167 | 152 | 131  | 114  | 90  | 29   |
| OSP-40/16(P4)50(6X6) | 22   | 30   | 16    | V- 6          | 4"BSP        |                | 178 | 162 | 139  | 122  | 96  | 30   |
| OSP-40/17(P4)50(6X6) | 22   | 30   | 17    | V- 6          | 4"BSP        |                | 189 | 172 | 148  | 129  | 102 | 32   |
| OSP-40/18(P4)50(6X6) | 26   | 35   | 18    | V-6           | 4"BSP        |                | 200 | 182 | 157  | 137  | 108 | 34   |
| OSP-40/19(P4)50(6X6) | 26   | 35   | 19    | V-6           | 4"BSP        |                | 211 | 192 | 165  | 144  | 114 | 36   |
| OSP-40/20(P4)50(6X6) | 26   | 35   | 20    | V- 6          | 4"BSP        |                | 222 | 202 | 174  | 152  | 120 | 38   |
| OSP-40/21(P4)50(6X6) | 30   | 40   | 21    | V- 6          | 4"BSP        |                | 233 | 212 | 183  | 160  | 126 | 40   |
| OSP-40/22(P4)50(6X6) | 30   | 40   | 22    | V-6           | 4"BSP        |                | 244 | 222 | 191  | 167  | 132 | 42   |
| OSP-40/23(P4)50(6X6) | 30   | 40   | 23    | V-6           | 4"BSP        |                | 255 | 232 | 200  | 175  | 138 | 44   |
| OSP-40/23(P4)50(6X6) | 30   | 40   | 24    | V-6           | 4"BSP        |                | 266 | 242 | 209  | 182  | 144 | 46   |

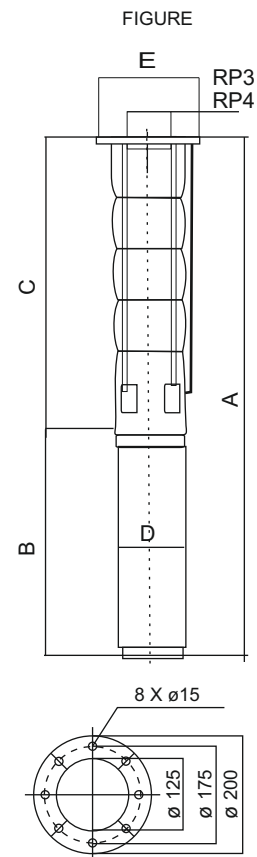
## Technical Data

### Submersible Pump OSP-40

| MODEL OSP-40         | Stage | MOTOR            |                 | PUMP   |     |     |        | MOTOR<br>OD<br>D |
|----------------------|-------|------------------|-----------------|--------|-----|-----|--------|------------------|
|                      |       | JOINING<br>MOTOR | POWER<br>( KW ) | Length |     |     | Weight |                  |
|                      |       |                  |                 | C      | E*  | E** | Kg     |                  |
| OSP-40/3(P4)50(6X6)  | 3     | V-6              | 4.0             | 619    | 147 | 152 | 12.94  | 144              |
| OSP-40/4(P4)50(6X6)  | 4     | V-6              | 5.5             | 732    | 147 | 152 | 15.30  | 144              |
| OSP-40/5(P4)50(6X6)  | 5     | V-6              | 7.5             | 845    | 147 | 152 | 17.66  | 144              |
| OSP-40/6(P4)50(6X6)  | 6     | V- 6             | 7.5             | 958    | 147 | 152 | 20.03  | 144              |
| OSP-40/7(P4)50(6X6)  | 7     | V- 6             | 9.3             | 1071   | 147 | 152 | 22.39  | 144              |
| OSP-40/8(P4)50(6X6)  | 8     | V-6              | 11              | 1184   | 147 | 152 | 24.75  | 144              |
| OSP-40/9(P4)50(6X6)  | 9     | V-6              | 11              | 1297   | 147 | 152 | 27.11  | 144              |
| OSP-40/10(P4)50(6X6) | 10    | V-6              | 13              | 1410   | 147 | 152 | 29.47  | 144              |
| OSP-40/11(P4)50(6X6) | 11    | V- 6             | 15              | 1523   | 147 | 152 | 31.84  | 144              |
| OSP-40/12(P4)50(6X6) | 12    | V- 6             | 15              | 1636   | 147 | 152 | 34.20  | 144              |
| OSP-40/13(P4)50(6X6) | 13    | V-6              | 18.5            | 1749   | 147 | 152 | 36.56  | 144              |
| OSP-40/14(P4)50(6X6) | 14    | V-6              | 18.5            | 1862   | 147 | 152 | 38.92  | 144              |
| OSP-40/15(P4)50(6X6) | 15    | V-6              | 22              | 1975   | 147 | 152 | 41.28  | 144              |
| OSP-40/16(P4)50(6X6) | 16    | V- 6             | 22              | 2088   | 147 | 152 | 43.65  | 144              |
| OSP-40/17(P4)50(6X6) | 17    | V- 6             | 22              | 2201   | 147 | 152 | 46.01  | 144              |
| OSP-40/18(P4)50(6X6) | 18    | V-6              | 26              | 2314   | 147 | 152 | 48.37  | 144              |
| OSP-40/19(P4)50(6X6) | 19    | V-6              | 26              | 2427   | 147 | 152 | 50.73  | 144              |
| OSP-40/20(P4)50(6X6) | 20    | V- 6             | 26              | 2540   | 147 | 152 | 53.09  | 144              |
| OSP-40/21(P4)50(6X6) | 21    | V- 6             | 30              | 2653   | 147 | 152 | 55.46  | 144              |
| OSP-40/22(P4)50(6X6) | 22    | V-6              | 30              | 2766   | 147 | 152 | 57.82  | 144              |
| OSP-40/23(P4)50(6X6) | 23    | V-6              | 30              | 2879   | 147 | 152 | 60.18  | 144              |
| OSP-40/23(P4)50(6X6) | 24    | V-6              | 30              | 2992   | 147 | 152 | 62.54  | 144              |

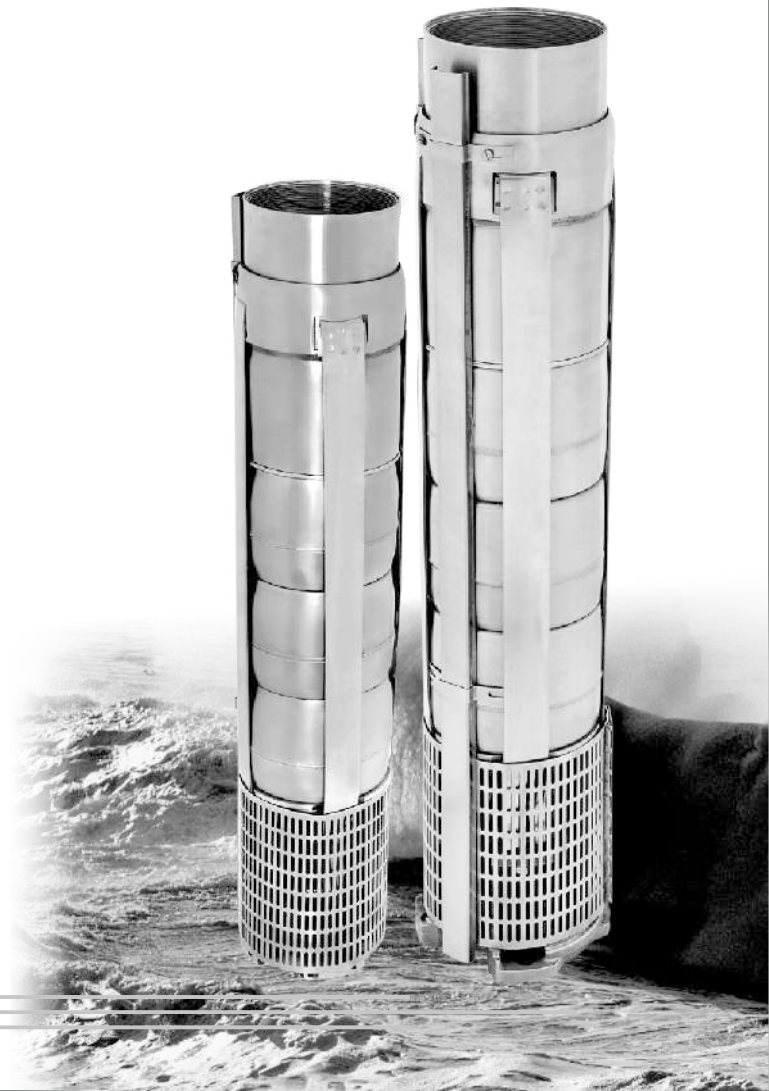
\* MAX.DIA OF PUMP WITH ONE MOTOR CABLE

\*\* MAX.DIA OF PUMP WITH TWO MOTOR CABLE



**OSP-77 & OSP-95**

# 8" *Submersible Pump*



## 8" Submersible Pump General Data

### Construction

Submersible motor and pumps for bore wells of 8" ( 200 mm )  
All sizes of pumps according to the NEMA standard  
OSP series pumps are completely made out of AISI 304 stainless steel material .  
Mixed flow Model : OSP-77 , OSP-95

### Application

For water supply  
For irrigation  
For civil and industrial applications.  
For fire fighting application

### General Data

Head range up to 300 meters  
Flow range up to 96 M<sup>3</sup>/hr.

### Operating Condition

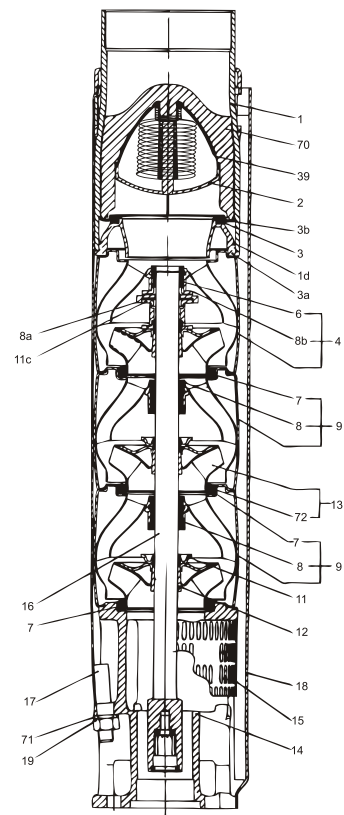
Maximum Ambient temperature : 50°C  
Maximum quantity of sand 50 gm / m<sup>3</sup>  
Minimum suction head required : 1.5 meter.  
Max. start per hour 30 at regular intervals.  
Direction of rotation : clockwise as seen from the pump coupling side.  
Also available in NPT connection.

## Material of Construction

### MATERIAL SPECIFICATION OSP - 77/95

| S.No. | Components                | Material              | Standard |
|-------|---------------------------|-----------------------|----------|
| 1     | Valve complete            | Stainless steel       | 304      |
| 1d    | O-ring                    | NBR                   |          |
| 2     | Valve cup                 | Stainless steel       | 304      |
| 3     | Valve seat                | Stainless steel + NBR |          |
| 3a    | Lower valve seat retainer | Stainless steel       | 304      |
| 4     | Top chamber               | Stainless steel       | 304      |
| 5     | Stop disc                 | Zinc less bronze      |          |
| 6     | Upper bearing             | Stainless steel + NBR |          |
| 7     | Neck ring                 | NBR + Stainless Steel |          |
| 8     | Bearing                   | NBR                   |          |
| 9     | Inter Chamber             | Stainless steel       | 304      |
| 11    | Split cone nut            | Stainless steel       | 304      |
| 12    | Split cone                | Stainless steel       | 304      |
| 13    | Impeller                  | Stainless steel       | 304      |
| 14    | Suction interconnector    | Stainless steel       | 304      |
| 15    | Strainer                  | Stainless steel       | 304      |
| 16    | Pump shaft                | Stainless steel       | 431      |
| 17    | Strap                     | Stainless steel       | 304      |
| 18    | Cable Guard               | Stainless steel       | 304      |
| 19    | Nut                       | Stainless steel       | 304      |
| 39    | Spring for valve cup      | Stainless steel       | 304      |
| 70    | Valve guide complete      | Stainless steel       | 304      |
| 72    | Wear ring                 | Stainless steel       | 304      |

### Sectional View



## Performance Table

### Submersible Pump OSP- 77

| MODEL OSP-77          | K.W. | H.P. | Stage | Motor joining | Out let Size | Discharge      |      |      |      |      |      |      |
|-----------------------|------|------|-------|---------------|--------------|----------------|------|------|------|------|------|------|
|                       |      |      |       |               |              | M³/H           | 0    | 48   | 60   | 72   | 84   | 96   |
|                       |      |      |       |               |              | (LPM)          | 0    | 800  | 1000 | 1200 | 1400 | 1600 |
| OSP-77/1(P4)50(6X8)   | 5.5  | 7.5  | 1     | V-6           | 5"BSP        | HEAD IN METERS | 20.0 | 15.9 | 14.4 | 12.8 | 10.8 | 7.8  |
| OSP-77/2-B(P4)50(6X8) | 5.5  | 7.5  | 2-B   | V-6           | 5"BSP        |                | 33   | 29   | 25   | 19   | 17   | 15   |
| OSP-77/2(P4)50(6X8)   | 7.5  | 10   | 2     | V-6           | 5"BSP        |                | 40   | 32   | 29   | 26   | 22   | 16   |
| OSP-77/3-B(P4)50(6X8) | 9.3  | 12.5 | 3-B   | V-6           | 5"BSP        |                | 53   | 41   | 37   | 32   | 26   | 16   |
| OSP-77/3(P4)50(6X8)   | 11   | 15   | 3     | V-6           | 5"BSP        |                | 60   | 48   | 43   | 38   | 32   | 23   |
| OSP-77/4-B(P4)50(6X8) | 13   | 17.5 | 4-B   | V-6           | 5"BSP        |                | 73   | 57   | 51   | 44   | 36   | 23   |
| OSP-77/4(P4)50(6X8)   | 15   | 20   | 4     | V-6           | 5"BSP        |                | 80   | 64   | 58   | 51   | 43   | 31   |
| OSP-77/5(P4)50(6X8)   | 18.5 | 25   | 5     | V-6           | 5"BSP        |                | 100  | 80   | 72   | 64   | 54   | 39   |
| OSP-77/6(P4)50(6X8)   | 22   | 30   | 6     | V-6           | 5"BSP        |                | 120  | 95   | 86   | 77   | 65   | 47   |
| OSP-77/7(P4)50(6X8)   | 26   | 35   | 7     | V-6           | 5"BSP        |                | 140  | 111  | 101  | 90   | 76   | 55   |
| OSP-77/8-B(P4)50(6X8) | 26   | 35   | 8-B   | V-6           | 5"BSP        |                | 153  | 120  | 109  | 96   | 80   | 55   |
| OSP-77/8(P4)50(6X8)   | 30   | 40   | 8     | V-6           | 5"BSP        |                | 160  | 127  | 115  | 102  | 86   | 62   |
| OSP-77/9(P4)50(6X8)   | 30   | 40   | 9     | V-6           | 5"BSP        |                | 180  | 143  | 130  | 115  | 97   | 70   |
| OSP-77/10(P4)50(6X8)  | 37   | 50   | 10    | V-6           | 5"BSP        |                | 200  | 159  | 144  | 128  | 108  | 78   |
| OSP-77/11(P4)50(6X8)  | 37   | 50   | 11    | V-6           | 5"BSP        |                | 220  | 175  | 158  | 141  | 119  | 86   |
| OSP-77/12(P4)50(6X8)  | 45   | 60   | 12    | V-6           | 5"BSP        |                | 240  | 191  | 173  | 154  | 130  | 94   |
| OSP-77/13(P4)50(8X8)  | 55   | 75   | 13    | V-8           | 5"BSP        |                | 260  | 207  | 187  | 166  | 140  | 101  |
| OSP-77/14(P4)50(8X8)  | 55   | 75   | 14    | V-8           | 5"BSP        |                | 280  | 223  | 202  | 179  | 151  | 109  |
| OSP-77/15(P4)50(8X8)  | 55   | 75   | 15    | V-8           | 5"BSP        |                | 300  | 239  | 216  | 192  | 162  | 117  |
| OSP-77/16(P4)50(8X8)  | 67   | 90   | 16    | V-8           | 5"BSP        |                | 320  | 254  | 230  | 205  | 173  | 125  |
| OSP-77/17(P4)50(8X8)  | 67   | 90   | 17    | V-8           | 5"BSP        |                | 340  | 270  | 245  | 218  | 184  | 133  |
| OSP-77/18(P4)50(8X8)  | 67   | 90   | 18    | V-8           | 5"BSP        |                | 360  | 286  | 259  | 230  | 194  | 140  |
| OSP-77/19(P4)50(8X8)  | 75   | 100  | 19    | V-8           | 5"BSP        | 380            | 302  | 274  | 243  | 205  | 148  |      |
| OSP-77/20(P4)50(8X8)  | 75   | 100  | 20    | V-8           | 5"BSP        | 400            | 318  | 288  | 256  | 216  | 156  |      |
| OSP-77/21(P4)50(8X8)  | 75   | 100  | 21    | V-8           | 5"BSP        | 420            | 334  | 302  | 269  | 227  | 164  |      |
| OSP-77/22(P4)50(8X8)  | 93   | 125  | 22    | V-8           | 5"BSP        | 440            | 350  | 317  | 282  | 238  | 172  |      |

# Technical Data

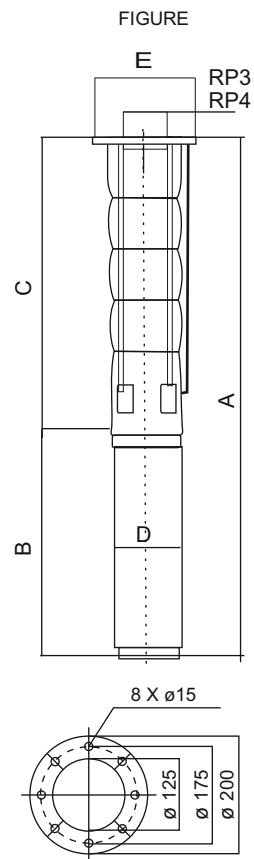
## Submersible Pump OSP- 77

| PUMP MODEL            | STAGE | MOTOR         |              | PUMP     |     |     |           | MOTOR |
|-----------------------|-------|---------------|--------------|----------|-----|-----|-----------|-------|
|                       |       | JOINING MOTOR | POWER ( KW ) | Length C | E*  | E** | Weight Kg | OD D  |
| OSP-77/1(P4)50(6X8)   | 1     | V-6           | 5.5          | 610      | 200 | 200 | 19.011    | 144   |
| OSP-77/2-B(P4)50(6X8) | 2-B   | V-6           | 5.5          | 738      | 200 | 200 | 22.711    | 144   |
| OSP-77/2(P4)50(6X8)   | 2     | V-6           | 7.5          | 738      | 200 | 200 | 22.711    | 144   |
| OSP-77/3-B(P4)50(6X8) | 3-B   | V-6           | 9.3          | 866      | 200 | 200 | 26.411    | 144   |
| OSP-77/3(P4)50(6X8)   | 3     | V-6           | 11.0         | 866      | 200 | 200 | 26.411    | 144   |
| OSP-77/4-B(P4)50(6X8) | 4-B   | V-6           | 13.0         | 994      | 200 | 200 | 30.111    | 144   |
| OSP-77/4(P4)50(6X8)   | 4     | V-6           | 15.0         | 994      | 200 | 200 | 30.111    | 144   |
| OSP-77/5(P4)50(6X8)   | 5     | V-6           | 18.5         | 1122     | 200 | 200 | 33.811    | 144   |
| OSP-77/6(P4)50(6X8)   | 6     | V-6           | 22.0         | 1250     | 200 | 200 | 37.511    | 144   |
| OSP-77/7(P4)50(6X8)   | 7     | V-6           | 26.0         | 1378     | 200 | 200 | 41.211    | 144   |
| OSP-77/8-B(P4)50(6X8) | 8-B   | V-6           | 26.0         | 1506     | 200 | 200 | 44.911    | 144   |
| OSP-77/8(P4)50(6X8)   | 8     | V-6           | 30.0         | 1506     | 200 | 200 | 44.911    | 144   |
| OSP-77/9(P4)50(6X8)   | 9     | V-6           | 30.0         | 1634     | 200 | 200 | 48.611    | 144   |
| OSP-77/10(P4)50(6X8)  | 10    | V-6           | 37.0         | 1762     | 205 | 205 | 52.311    | 144   |
| OSP-77/11(P4)50(6X8)  | 11    | V-6           | 37.0         | 1890     | 205 | 205 | 56.011    | 144   |
| OSP-77/12(P4)50(6X8)  | 12    | V-6           | 45.0         | 2018     | 205 | 205 | 59.711    | 144   |
| OSP-77/13(P4)50(8X8)  | 13    | V-8           | 55.0         | 2176     | 205 | 205 | 67.03     | 189   |
| OSP-77/14(P4)50(8X8)  | 14    | V-8           | 55.0         | 2304     | 205 | 205 | 70.73     | 189   |
| OSP-77/15(P4)50(8X8)  | 15    | V-8           | 55.0         | 2432     | 205 | 205 | 74.43     | 189   |
| OSP-77/16(P4)50(8X8)  | 16    | V-8           | 67.0         | 2560     | 205 | 205 | 78.13     | 189   |
| OSP-77/17(P4)50(8X8)  | 17    | V-8           | 67.0         | 2688     | 205 | 205 | 81.83     | 189   |
| OSP-77/18(P4)50(8X8)  | 18    | V-8           | 67.0         | 2816     | 205 | 205 | 85.53     | 189   |
| OSP-77/19(P4)50(8X8)  | 19    | V-8           | 75.0         | 2944     | 205 | 205 | 89.23     | 189   |
| OSP-77/20(P4)50(8X8)  | 20    | V-8           | 75.0         | 3072     | 205 | 205 | 92.93     | 189   |
| OSP-77/21(P4)50(8X8)  | 21    | V-8           | 75.0         | 3200     | 205 | 205 | 96.63     | 189   |
| OSP-77/22(P4)50(8X8)  | 22    | V-8           | 93.0         | 3328     | 205 | 205 | 100.33    | 189   |

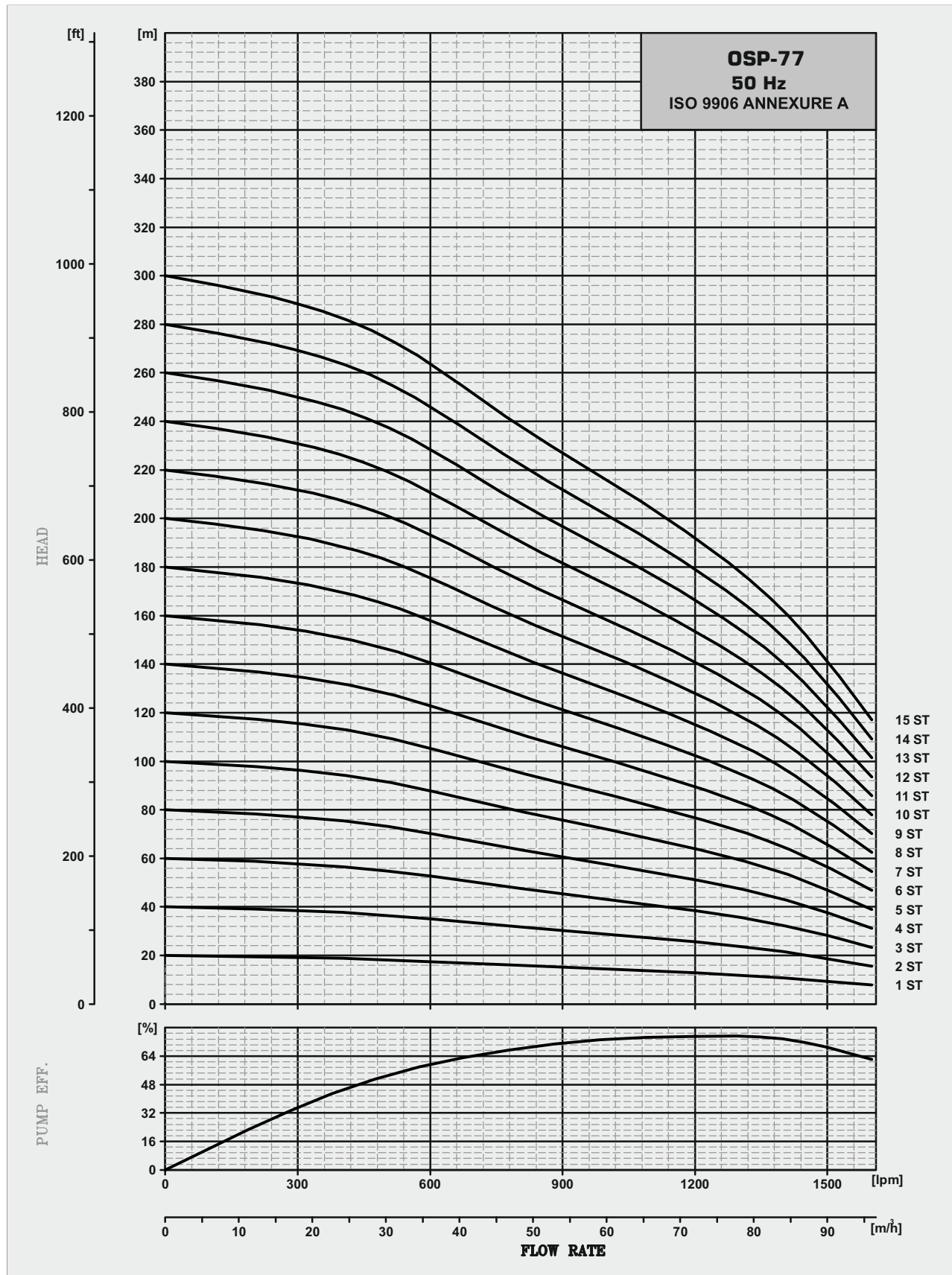
FROM: 1 STAGE TO 12 STAGE, ALSO AVAILABLE WITH 8" MOTOR JOINING (8X8)

\* MAX.DIA OF PUMP WITH ONE MOTOR CABLE

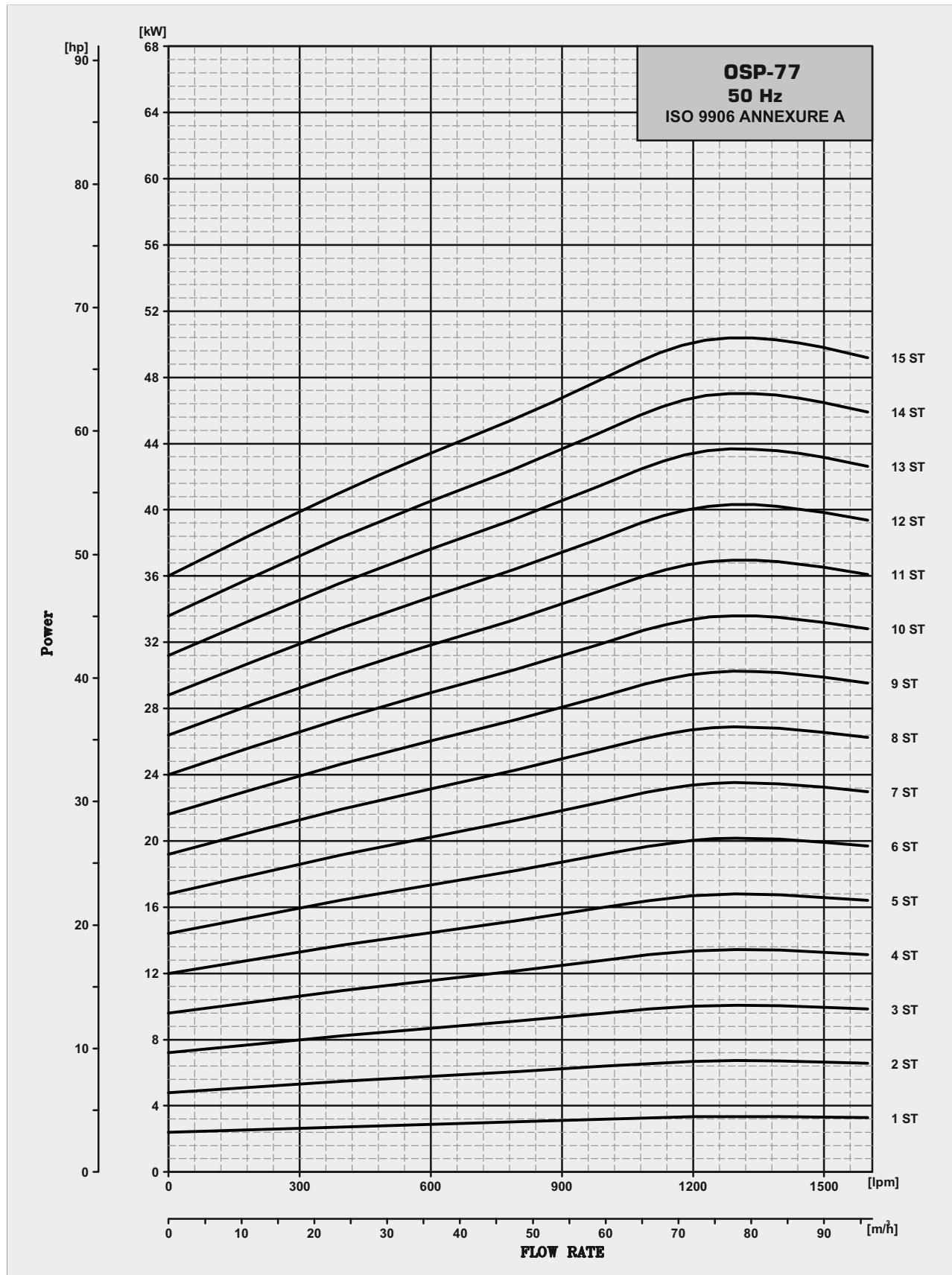
\*\* MAX.DIA OF PUMP WITH TWO MOTOR CABLE



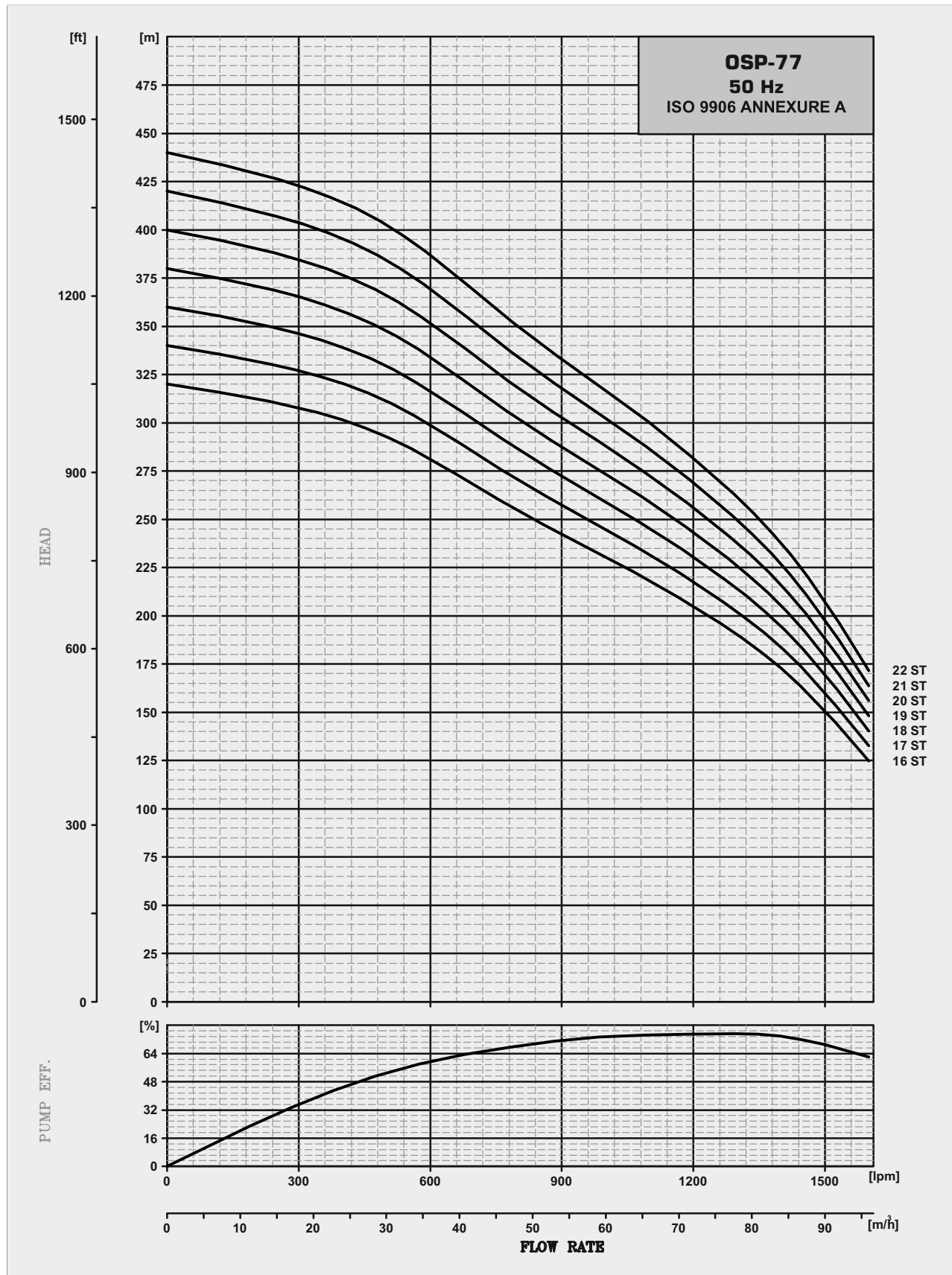
## Performance Curves



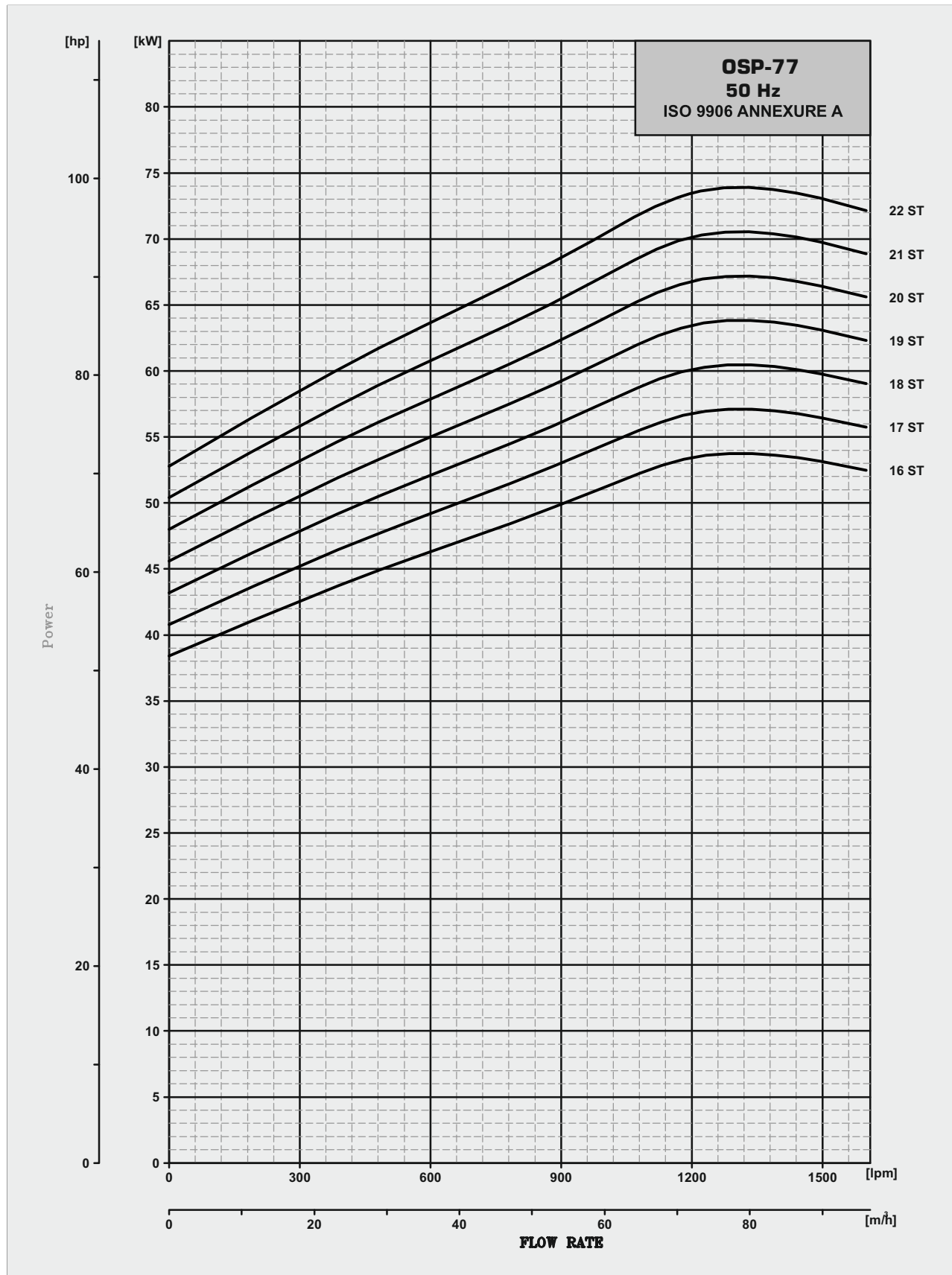
## Power Curves



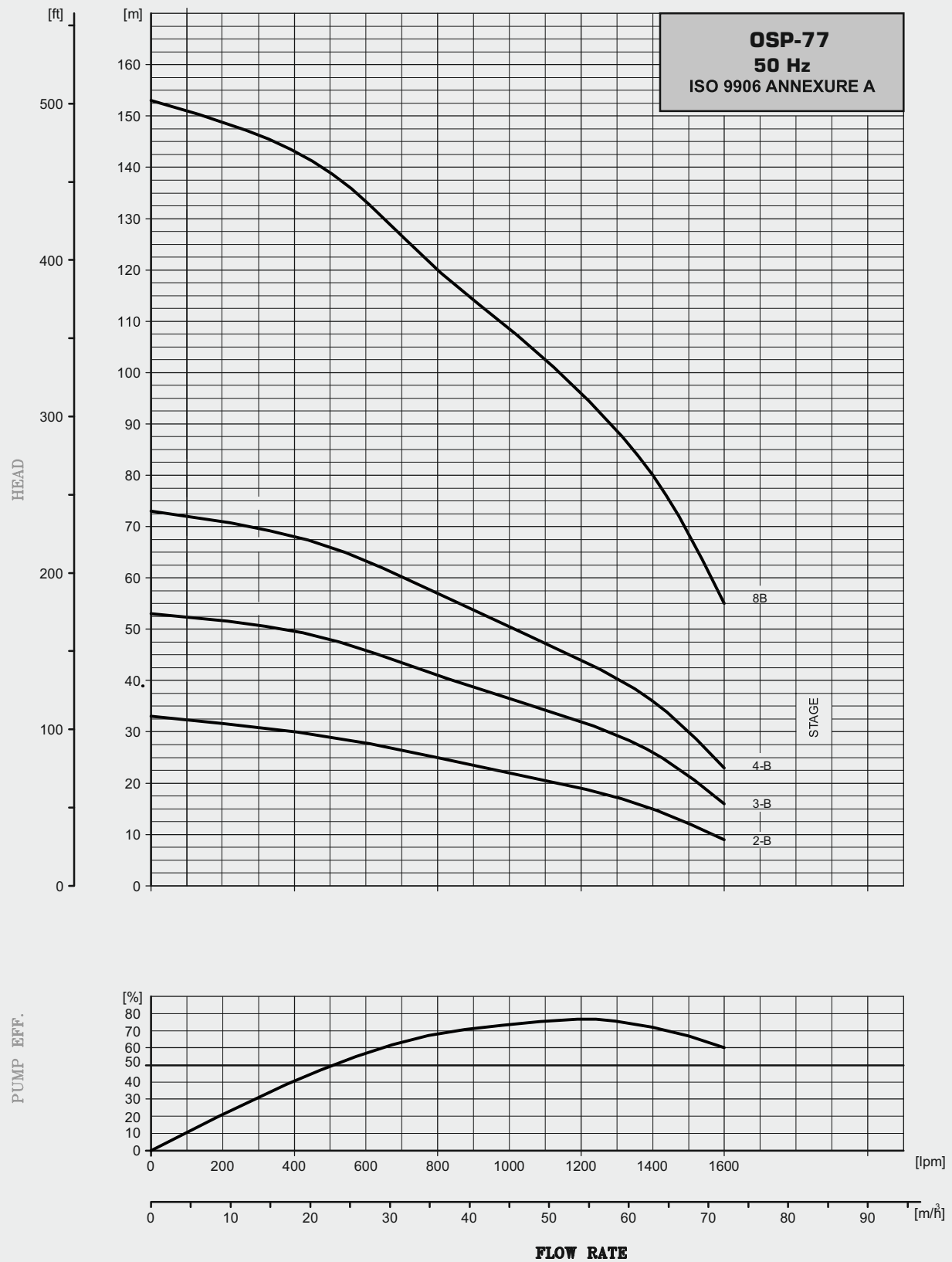
## Performance Curves



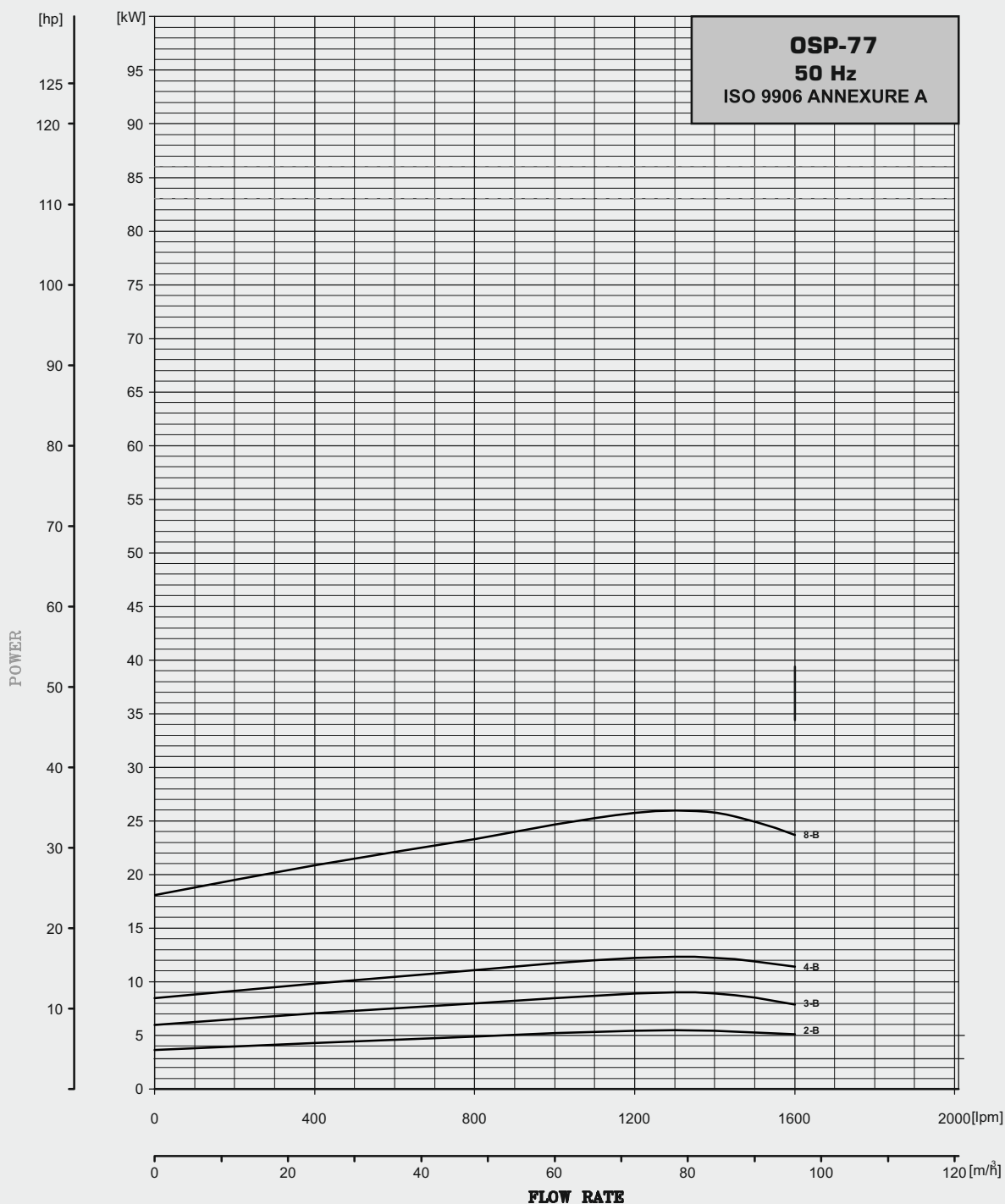
## Power Curves



# Performance Curves



## Power Curves



## Performance Table

### Submersible Pump OSP- 95

| MODEL OSP-95           | K.W. | H.P. | Stage | Motor Joining | Out let Size | Discharge      |      |      |      |      |      |      |
|------------------------|------|------|-------|---------------|--------------|----------------|------|------|------|------|------|------|
|                        |      |      |       |               |              | M³/H           | 0    | 48   | 72   | 96   | 108  | 120  |
|                        |      |      |       |               |              | (LPM)          | 0    | 800  | 1200 | 1600 | 1800 | 2000 |
| OSP-95/1(P4)50(6X8)    | 5.5  | 7.5  | 1     | V-6           | 5"BSP        | HEAD IN METERS | 21.4 | 17.3 | 14.8 | 11.8 | 9.7  | 6.7  |
| OSP-95/2-BB(P4)50(6X8) | 5.5  | 7.5  | 2-BB  | V-6           | 5"BSP        |                | 27   | 22   | 19   | 12   | 6    | 2    |
| OSP-95/2-A(P4)50(6X8)  | 7.5  | 10   | 2-A   | V-6           | 5"BSP        |                | 39   | 29   | 25   | 20   | 15   | 9    |
| OSP-95/2(P4)50(6X8)    | 9.3  | 12.5 | 2     | V-6           | 5"BSP        |                | 43   | 35   | 30   | 24   | 19   | 13   |
| OSP-95/3-BB(P4)50(6X8) | 9.3  | 12.5 | 3-BB  | V-6           | 5"BSP        |                | 48   | 39   | 34   | 24   | 16   | 7    |
| OSP-95/3-B(P4)50(6X8)  | 11   | 15   | 3-B   | V-6           | 5"BSP        |                | 57   | 46   | 40   | 30   | 22   | 13   |
| OSP-95/3(P4)50(6X8)    | 13   | 17.5 | 3     | V-6           | 5"BSP        |                | 64   | 52   | 44   | 35   | 29   | 20   |
| OSP-95/4-B(P4)50(6X8)  | 15   | 20   | 4-B   | V-6           | 5"BSP        |                | 78   | 63   | 54   | 41   | 32   | 20   |
| OSP-95/4(P4)50(6X8)    | 18.5 | 25   | 4     | V-6           | 5"BSP        |                | 86   | 69   | 59   | 47   | 39   | 27   |
| OSP-95/5-AB(P4)50(6X8) | 18.5 | 25   | 5-AB  | V-6           | 5"BSP        |                | 95   | 75   | 64   | 49   | 37   | 20   |
| OSP-95/5(P4)50(6X8)    | 22   | 30   | 5     | V-6           | 5"BSP        |                | 107  | 87   | 74   | 59   | 49   | 34   |
| OSP-95/6(P4)50(6X8)    | 26   | 35   | 6     | V-6           | 5"BSP        |                | 128  | 104  | 89   | 71   | 58   | 40   |
| OSP-95/7(P4)50(6X8)    | 30   | 40   | 7     | V-6           | 5"BSP        |                | 150  | 121  | 104  | 83   | 68   | 47   |
| OSP-95/8(P4)50(6X8)    | 37   | 50   | 8     | V-6           | 5"BSP        |                | 171  | 138  | 118  | 94   | 78   | 54   |
| OSP-95/9(P4)50(6X8)    | 37   | 50   | 9     | V-6           | 5"BSP        |                | 193  | 156  | 133  | 106  | 87   | 60   |
| OSP-95/10(P4)50(6X8)   | 45   | 60   | 10    | V-6           | 5"BSP        |                | 214  | 173  | 148  | 118  | 97   | 67   |
| OSP-95/11(P4)50(8X8)   | 55   | 75   | 11    | V-8           | 5"BSP        |                | 235  | 190  | 163  | 130  | 107  | 74   |
| OSP-95/12(P4)50(8X8)   | 55   | 75   | 12    | V-8           | 5"BSP        |                | 257  | 208  | 178  | 142  | 116  | 80   |
| OSP-95/13(P4)50(8X8)   | 55   | 75   | 13    | V-8           | 5"BSP        |                | 278  | 225  | 192  | 153  | 126  | 87   |
| OSP-95/14(P4)50(8X8)   | 67   | 90   | 14    | V-8           | 5"BSP        |                | 300  | 242  | 207  | 165  | 136  | 94   |
| OSP-95/15(P4)50(8X8)   | 75   | 100  | 15    | V-8           | 5"BSP        | 321            | 260  | 222  | 177  | 146  | 101  |      |
| OSP-95/16(P4)50(8X8)   | 75   | 100  | 16    | V-8           | 5"BSP        | 342            | 277  | 237  | 189  | 155  | 107  |      |
| OSP-95/17(P4)50(8X8)   | 75   | 100  | 17    | V-8           | 5"BSP        | 364            | 294  | 252  | 201  | 165  | 114  |      |
| OSP-95/18(P4)50(8X8)   | 93   | 125  | 18    | V-8           | 5"BSP        | 385            | 311  | 266  | 212  | 175  | 121  |      |
| OSP-95/19(P4)50(8X8)   | 93   | 125  | 19    | V-8           | 5"BSP        | 407            | 329  | 281  | 224  | 184  | 127  |      |
| OSP-95/20(P4)50(8X8)   | 93   | 125  | 20    | V-8           | 5"BSP        | 428            | 346  | 296  | 236  | 194  | 134  |      |

## Technical Data

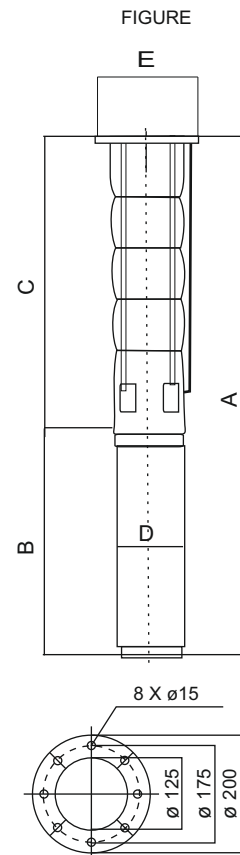
### Submersible Pump OSP- 95

| PUMP MODEL             | STAGE | MOTOR         |              | PUMP   |     |     |        | MOTOR |  |
|------------------------|-------|---------------|--------------|--------|-----|-----|--------|-------|--|
|                        |       | JOINING MOTOR | POWER ( KW ) | Length |     |     | Weight | OD    |  |
|                        |       |               |              | C      | E*  | E** | Kg     | D     |  |
| OSP-95/1(P4)50(6X8)    | 1     | V-6           | 5.5          | 610    | 200 | 200 | 19.011 | 144   |  |
| OSP-95/2-BB(P4)50(6X8) | 2-BB  | V-6           | 5.5          | 738    | 200 | 200 | 22.711 | 144   |  |
| OSP-95/2-A(P4)50(6X8)  | 2-A   | V-6           | 7.5          | 738    | 200 | 200 | 22.711 | 144   |  |
| OSP-95/2(P4)50(6X8)    | 2     | V-6           | 9.3          | 738    | 200 | 200 | 22.711 | 144   |  |
| OSP-95/3-BB(P4)50(6X8) | 3-BB  | V-6           | 9.3          | 886    | 200 | 200 | 26.411 | 144   |  |
| OSP-95/3-B(P4)50(6X8)  | 3-B   | V-6           | 11.0         | 886    | 200 | 200 | 26.411 | 144   |  |
| OSP-95/3(P4)50(6X8)    | 3     | V-6           | 13.0         | 886    | 200 | 200 | 26.411 | 144   |  |
| OSP-95/4-B(P4)50(6X8)  | 4-B   | V-6           | 15.0         | 994    | 200 | 200 | 30.111 | 144   |  |
| OSP-95/4(P4)50(6X8)    | 4     | V-6           | 18.5         | 994    | 200 | 200 | 30.111 | 144   |  |
| OSP-95/5-AB(P4)50(6X8) | 5-AB  | V-6           | 18.5         | 1122   | 200 | 200 | 33.811 | 144   |  |
| OSP-95/5(P4)50(6X8)    | 5     | V-6           | 22.0         | 1122   | 200 | 200 | 33.811 | 144   |  |
| OSP-95/6(P4)50(6X8)    | 6     | V-6           | 26.0         | 1250   | 200 | 200 | 37.511 | 144   |  |
| OSP-95/7(P4)50(6X8)    | 7     | V-6           | 30.0         | 1378   | 200 | 200 | 41.211 | 144   |  |
| OSP-95/8(P4)50(6X8)    | 8     | V-6           | 37.0         | 1506   | 200 | 200 | 44.911 | 144   |  |
| OSP-95/9(P4)50(6X8)    | 9     | V-6           | 37.0         | 1634   | 200 | 200 | 48.611 | 144   |  |
| OSP-95/10(P4)50(6X8)   | 10    | V-6           | 45.0         | 1762   | 200 | 200 | 52.311 | 144   |  |
| OSP-95/11(P4)50(8X8)   | 11    | V-8           | 55.0         | 1920   | 205 | 205 | 59.63  | 189   |  |
| OSP-95/12(P4)50(8X8)   | 12    | V-8           | 55.0         | 2048   | 205 | 205 | 63.33  | 189   |  |
| OSP-95/13(P4)50(8X8)   | 13    | V-8           | 55.0         | 2176   | 205 | 205 | 67.03  | 189   |  |
| OSP-95/14(P4)50(8X8)   | 14    | V-8           | 67.0         | 2304   | 205 | 205 | 70.73  | 189   |  |
| OSP-95/15(P4)50(8X8)   | 15    | V-8           | 75.0         | 2432   | 205 | 205 | 74.43  | 189   |  |
| OSP-95/16(P4)50(8X8)   | 16    | V-8           | 75.0         | 2560   | 205 | 205 | 78.13  | 189   |  |
| OSP-95/17(P4)50(8X8)   | 17    | V-8           | 75.0         | 2688   | 205 | 205 | 81.83  | 189   |  |
| OSP-95/18(P4)50(8X8)   | 18    | V-8           | 93.0         | 2816   | 205 | 205 | 85.53  | 189   |  |
| OSP-95/19(P4)50(8X8)   | 19    | V-8           | 93.0         | 2944   | 205 | 205 | 89.23  | 189   |  |
| OSP-95/20(P4)50(8X8)   | 20    | V-8           | 93.0         | 3072   | 205 | 205 | 92.93  | 189   |  |

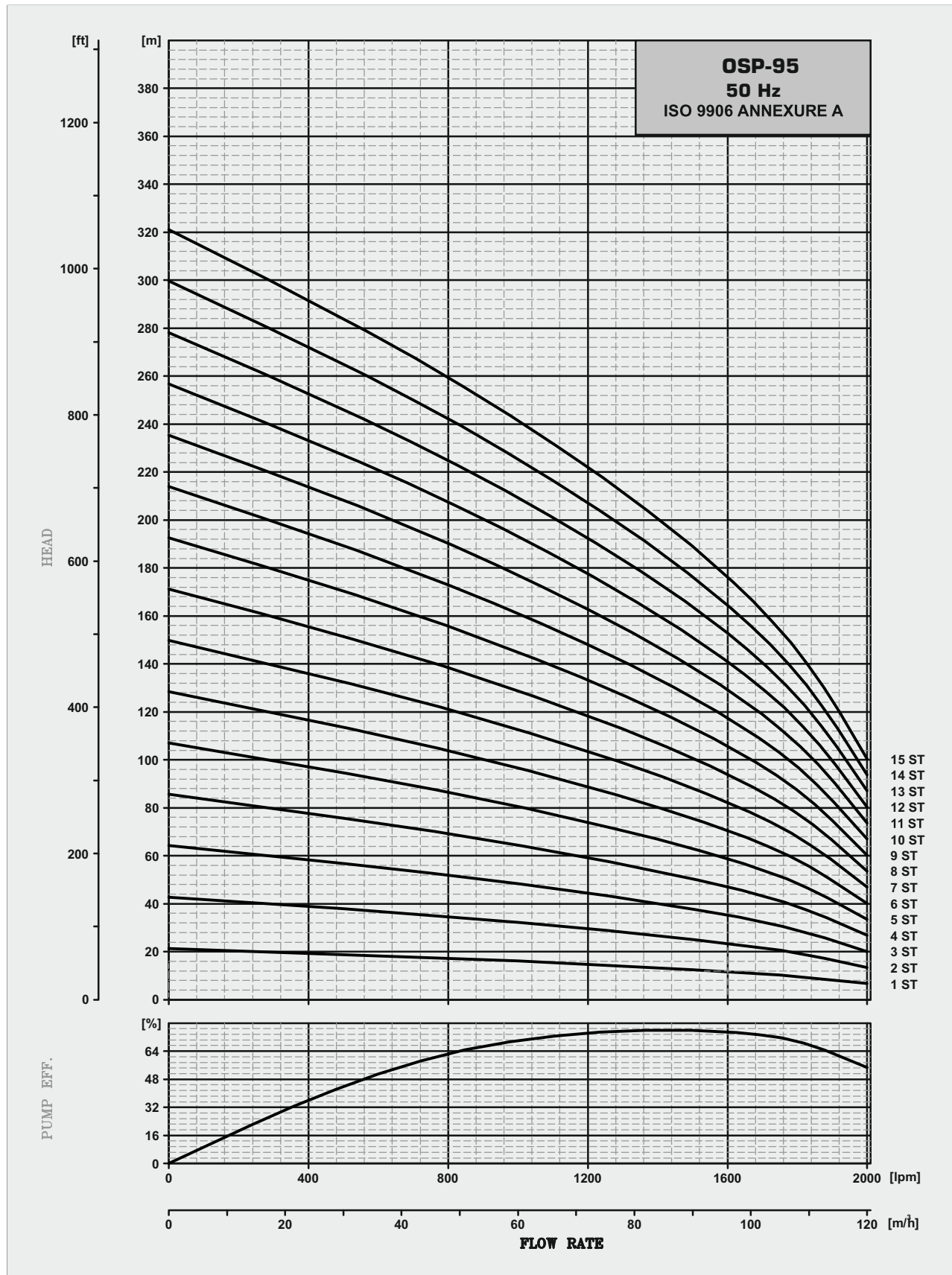
FROM: 1 STAGE TO 10 STAGE, ALSO AVAILABLE WITH 8" MOTOR JOINING (8X8)

\* MAX.DIA OF PUMP WITH ONE MOTOR CABLE

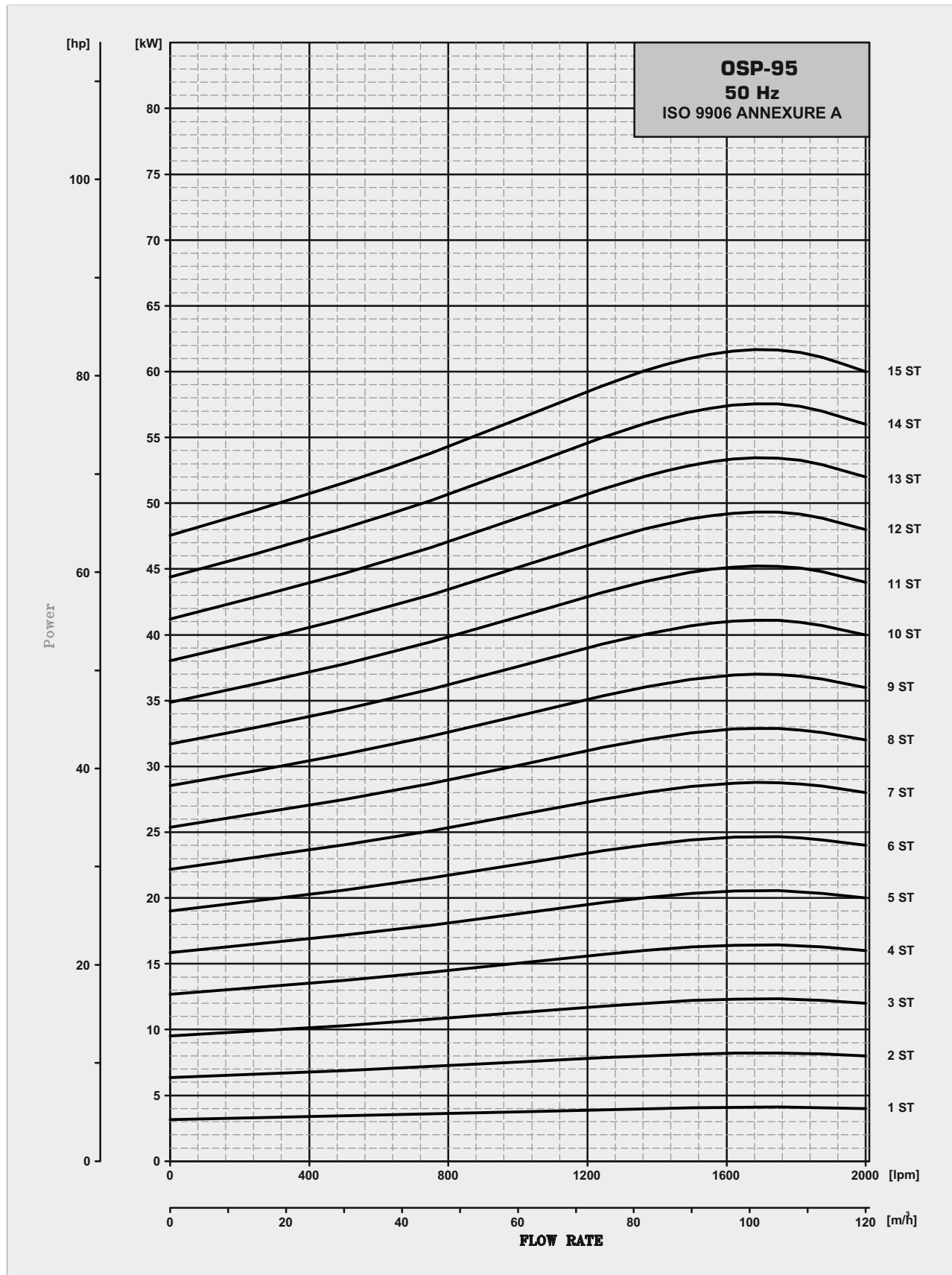
\*\* MAX.DIA OF PUMP WITH TWO MOTOR CABLE



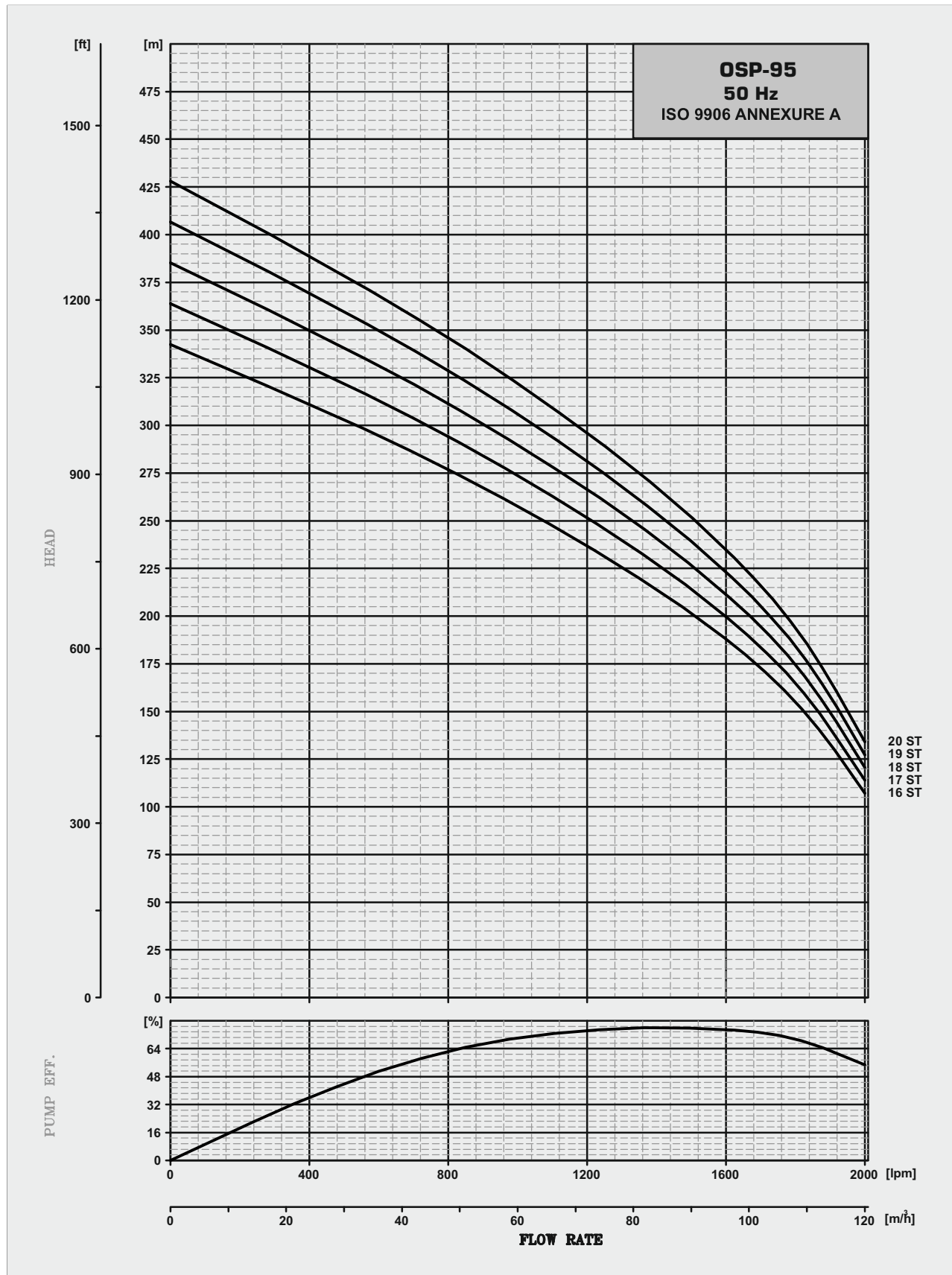
## Performance Curves



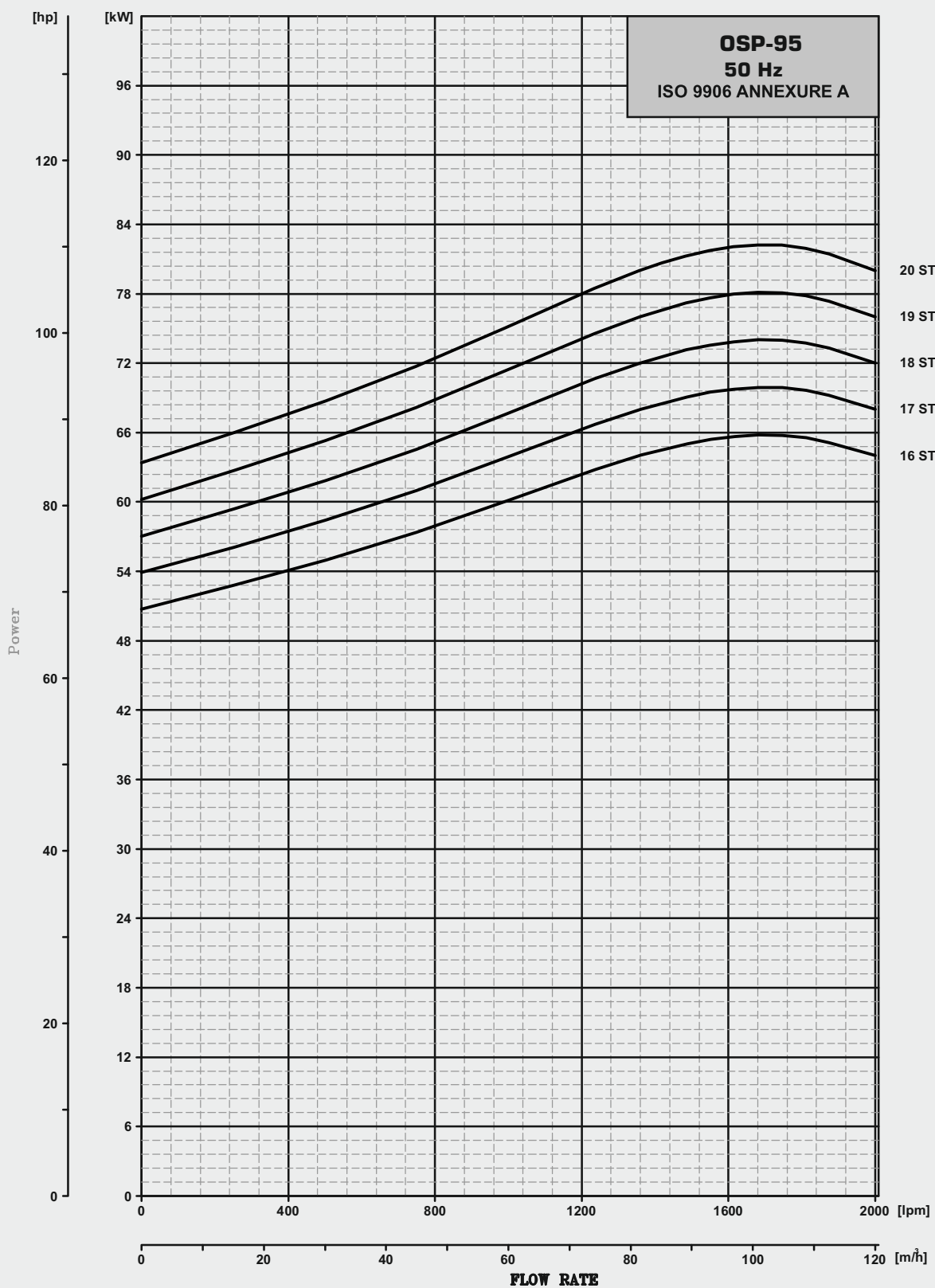
## Power Curves



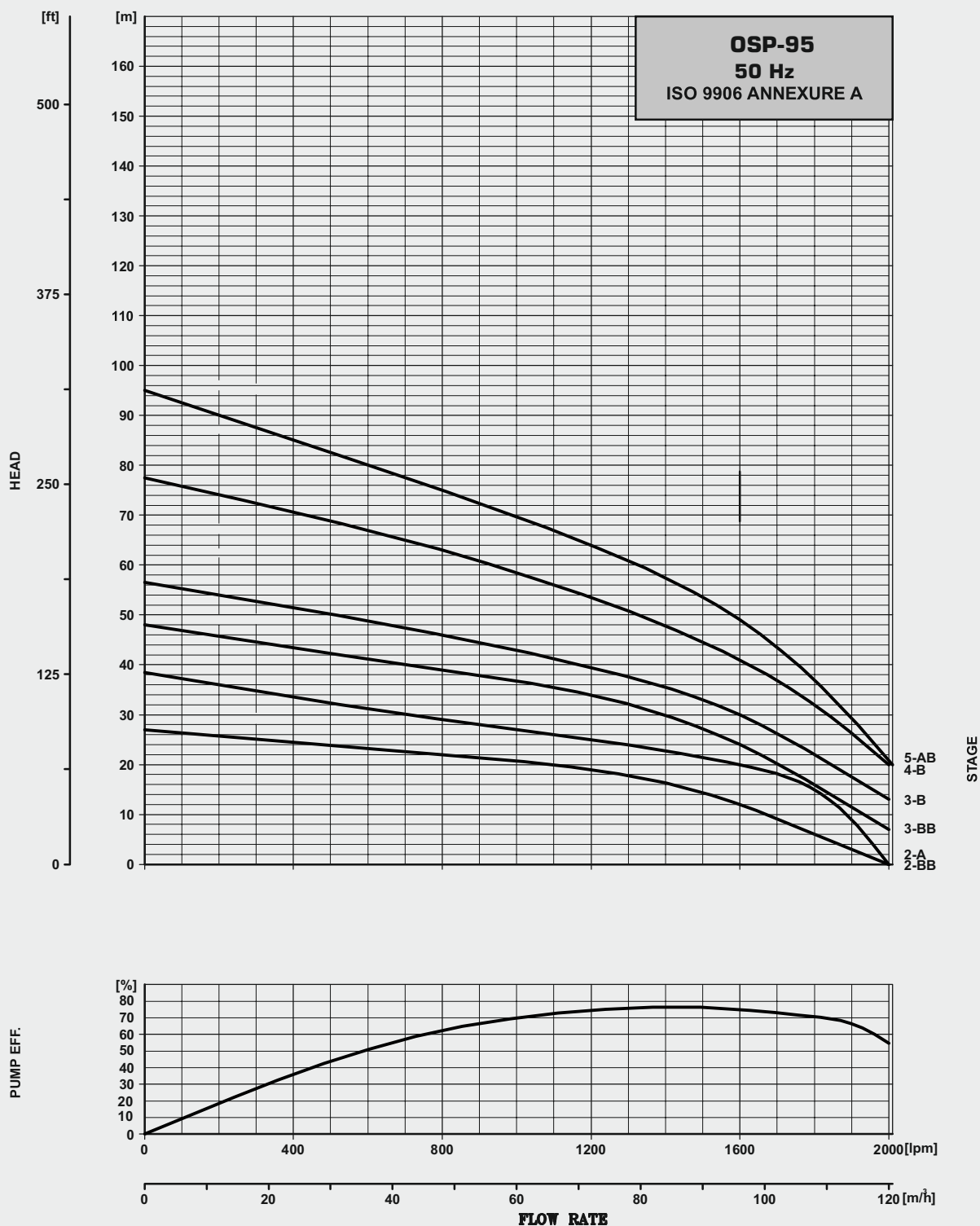
## Performance Curves



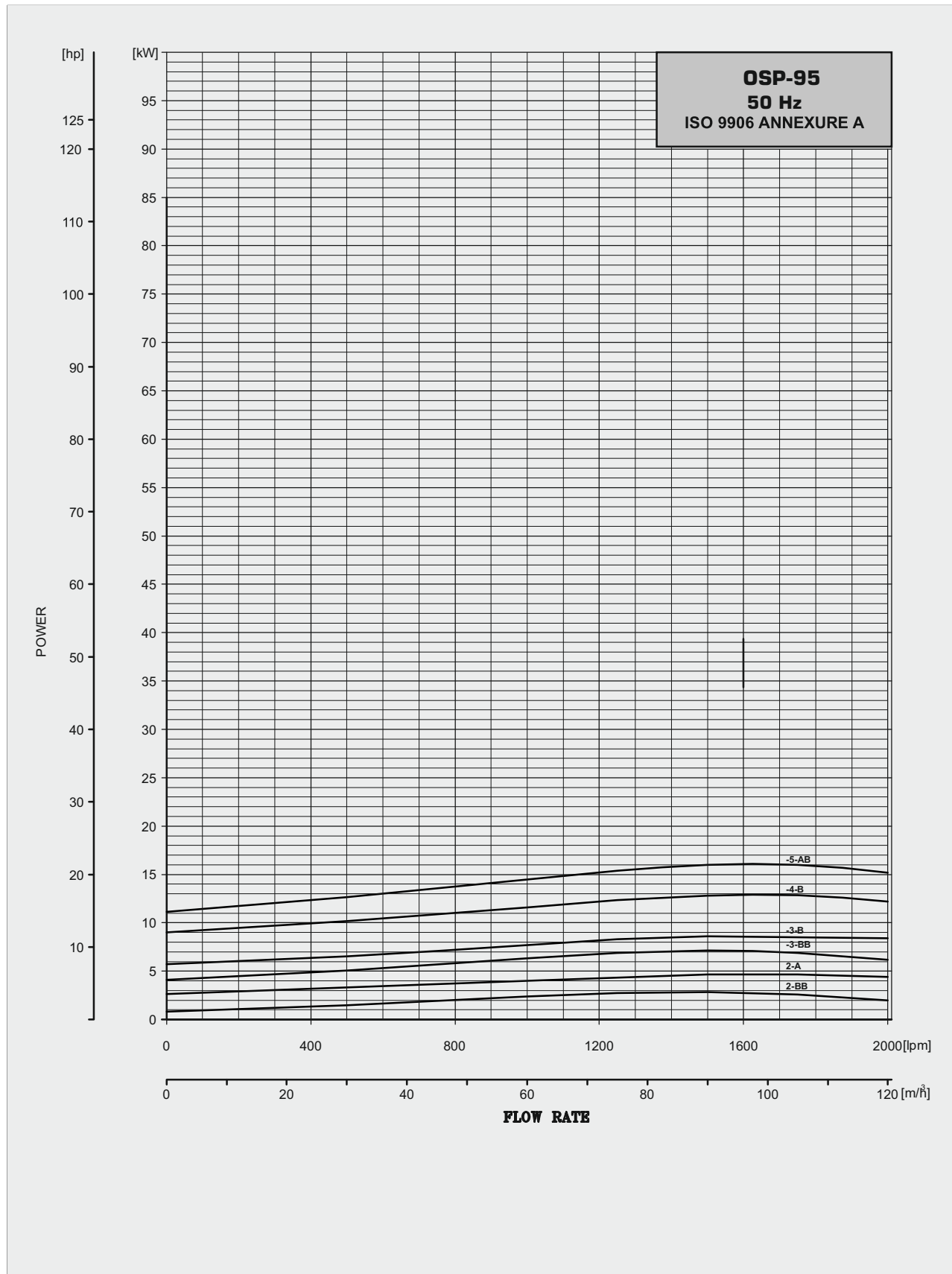
## Power Curves



## Performance Curves



## Power Curves



**OSP-125 & OSP-160**

# 10” *Submersible Pump*



## 10" Submersible Pump General Data

### Construction

Submersible motor and pumps for bore wells of 10" ( 250 mm )

All sizes of pumps according to the NEMA standard

OSP series pumps are completely made out of AISI 304 stainless steel material.

Mixed flow Model : OSP-125 , OSP-160

### Application

For water supply

For irrigation

For civil and industrial applications.

For fire fighting application

### General Data

Head range up to 340 meters

Flow range up to 162 M<sup>3</sup>/hr.

### Operating Condition

Maximum Ambient temperature : 50°C

Maximum quantity of sand 50 gm / m<sup>3</sup>

Minimum suction head required : 1.5 meter.

Max. start per hour 30 at regular intervals.

Direction of rotation : clockwise as seen from the pump coupling side.

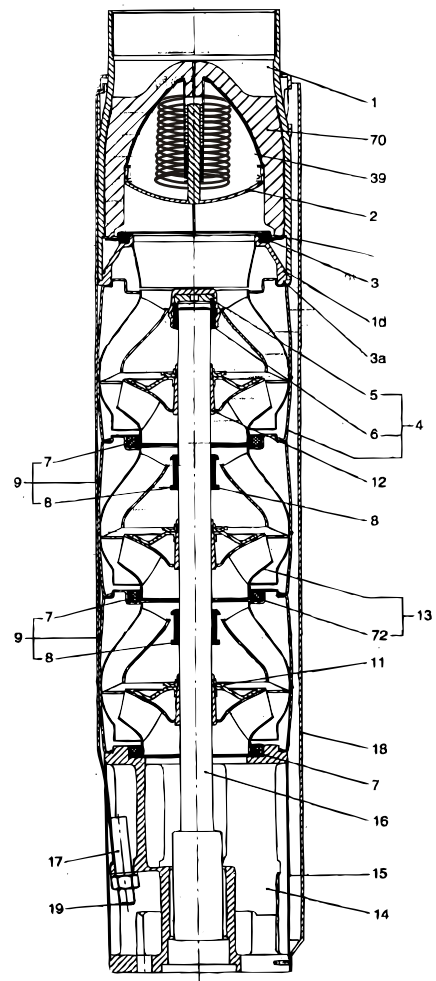
Also available in NPT connection.

## Material of Construction

### MATERIAL SPECIFICATION - OSP -125/160

| S.No. | Components                | Material              | Standard |
|-------|---------------------------|-----------------------|----------|
| 1     | Valve complete            | Stainless steel       | 304      |
| 1d    | O-ring                    | NBR                   |          |
| 2     | Valve cup                 | Stainless steel       | 304      |
| 3     | Valve seat                | Stainless steel + NBR |          |
| 3a    | Lower valve seat retainer | Stainless steel       | 304      |
| 4     | Top chamber               | Stainless steel       | 304      |
| 5     | Stop disc                 | Zinc less bronze      |          |
| 6     | Upper bearing             | Stainless steel + NBR |          |
| 7     | Neck ring                 | NBR + Stainless Steel |          |
| 8     | Bearing                   | NBR                   |          |
| 9     | Inter Chamber             | Stainless steel       | 304      |
| 11    | Split cone nut            | Stainless steel       | 304      |
| 12    | Split cone                | Stainless steel       | 304      |
| 13    | Impeller                  | Stainless steel       | 304      |
| 14    | Suction interconnector    | Stainless steel       | 304      |
| 15    | Strainer                  | Stainless steel       | 304      |
| 16    | Pump shaft                | Stainless steel       | 431      |
| 17    | Strap                     | Stainless steel       | 304      |
| 18    | Cable Guard               | Stainless steel       | 304      |
| 19    | Nut                       | Stainless steel       | 304      |
| 39    | Spring for valve cup      | Stainless steel       | 304      |
| 70    | Valve guide complete      | Stainless steel       | 304      |
| 72    | Wear ring                 | Stainless steel       | 304      |

### Sectional View



## Performance Table

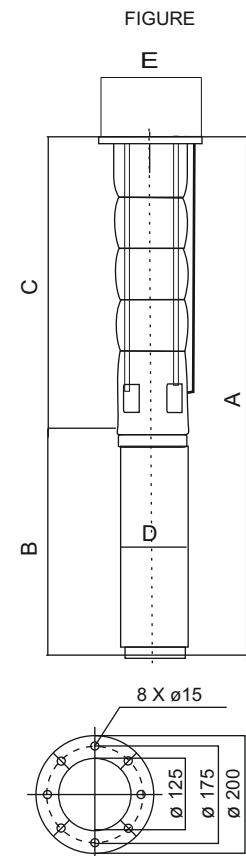
### Submersible Pump OSP- 125

| MODEL OSP-125             | K.W. | H.P. | Stage | Motor Joining | Out let Size | Discharge         |      |      |      |      |      |      |
|---------------------------|------|------|-------|---------------|--------------|-------------------|------|------|------|------|------|------|
|                           |      |      |       |               |              | M <sup>3</sup> /H | 0    | 48   | 96   | 126  | 144  | 156  |
|                           |      |      |       |               |              | (LPM)             | 0    | 800  | 1600 | 2100 | 2400 | 2600 |
| OSP-125/1-A(P4)50(6X10)   | 7.5  | 10   | 1-A   | V-6           | 6"BSP        | HEAD IN METERS    | 21   | 20   | 16   | 13   | 10   | 7    |
| OSP-125/1(P4)50(6X10)     | 11   | 15   | 1     | V-6           | 6"BSP        |                   | 28.5 | 27.7 | 23.0 | 20.0 | 17.0 | 14.7 |
| OSP-125/2-AA(P4)50(6X10)  | 13   | 17.5 | 2-AA  | V-6           | 6"BSP        |                   | 44   | 39   | 32   | 26   | 19   | 13   |
| OSP-125/2-A(P4)50(6X10)   | 18.5 | 25   | 2-A   | V-6           | 6"BSP        |                   | 50   | 47   | 39   | 33   | 27   | 21   |
| OSP-125/2(P4)50(6X10)     | 22   | 30   | 2     | V-6           | 6"BSP        |                   | 57   | 55   | 46   | 40   | 34   | 29   |
| OSP-125/3-AA(P4)50(6X10)  | 22   | 30   | 3-AA  | V-6           | 6"BSP        |                   | 71   | 67   | 55   | 46   | 36   | 28   |
| OSP-125/3-A(P4)50(6X10)   | 26   | 35   | 3-A   | V-6           | 6"BSP        |                   | 78   | 75   | 62   | 53   | 44   | 36   |
| OSP-125/3(P4)50(6X10)     | 30   | 40   | 3     | V-6           | 6"BSP        |                   | 86   | 83   | 69   | 60   | 51   | 44   |
| OSP-125/4-AA(P4)50(6X10)  | 37   | 50   | 4-AA  | V-6           | 6"BSP        |                   | 99   | 94   | 78   | 66   | 53   | 42   |
| OSP-125/4-A(P4)50(6X10)   | 37   | 50   | 4-A   | V-6           | 6"BSP        |                   | 107  | 103  | 85   | 73   | 61   | 51   |
| OSP-125/4(P4)50(6X10)     | 37   | 50   | 4     | V-6           | 6"BSP        |                   | 114  | 111  | 92   | 80   | 68   | 59   |
| OSP-125/5-AA(P4)50(6X10)  | 45   | 60   | 5-AA  | V-6           | 6"BSP        |                   | 128  | 122  | 101  | 86   | 70   | 57   |
| OSP-125/5-A(P4)50(6X10)   | 45   | 60   | 5-A   | V-6           | 6"BSP        |                   | 135  | 131  | 108  | 93   | 78   | 66   |
| OSP-125/5(P4)50(8X10)     | 55   | 75   | 5     | V-8           | 6"BSP        |                   | 143  | 139  | 115  | 100  | 85   | 74   |
| OSP-125/6-AA(P4)50(8X10)  | 55   | 75   | 6-AA  | V-8           | 6"BSP        |                   | 156  | 150  | 124  | 106  | 87   | 72   |
| OSP-125/6-A(P4)50(8X10)   | 55   | 75   | 6-A   | V-8           | 6"BSP        |                   | 164  | 158  | 131  | 113  | 95   | 80   |
| OSP-125/6(P4)50(8X10)     | 63   | 85   | 6     | V-8           | 6"BSP        |                   | 171  | 166  | 138  | 120  | 102  | 88   |
| OSP-125/7-AA(P4)50(8X10)  | 63   | 85   | 7-AA  | V-8           | 6"BSP        |                   | 185  | 178  | 147  | 126  | 104  | 87   |
| OSP-125/7-A(P4)50(8X10)   | 63   | 85   | 7-A   | V-8           | 6"BSP        |                   | 192  | 186  | 154  | 133  | 112  | 95   |
| OSP-125/7(P4)50(8X10)     | 75   | 100  | 7     | V-8           | 6"BSP        |                   | 200  | 194  | 161  | 140  | 119  | 103  |
| OSP-125/8-AA(P4)50(8X10)  | 75   | 100  | 8-AA  | V-8           | 6"BSP        |                   | 213  | 205  | 170  | 146  | 121  | 101  |
| OSP-125/8-A(P4)50(8X10)   | 75   | 100  | 8-A   | V-8           | 6"BSP        |                   | 221  | 213  | 177  | 153  | 129  | 109  |
| OSP-125/8(P4)50(8X10)     | 75   | 100  | 8     | V-8           | 6"BSP        |                   | 228  | 222  | 184  | 160  | 136  | 118  |
| OSP-125/9-AA(P4)50(8X10)  | 93   | 125  | 9-AA  | V-8           | 6"BSP        |                   | 242  | 233  | 193  | 166  | 138  | 116  |
| OSP-125/9-A(P4)50(8X10)   | 93   | 125  | 9-A   | V-8           | 6"BSP        |                   | 249  | 241  | 200  | 173  | 146  | 124  |
| OSP-125/9(P4)50(8X10)     | 93   | 125  | 9     | V-8           | 6"BSP        |                   | 257  | 249  | 207  | 180  | 153  | 132  |
| OSP-125/10-AA(P4)50(8X10) | 93   | 125  | 10-AA | V-8           | 6"BSP        |                   | 270  | 261  | 216  | 186  | 155  | 131  |
| OSP-125/10-A(P4)50(8X10)  | 93   | 125  | 10-A  | V-8           | 6"BSP        |                   | 278  | 269  | 223  | 193  | 163  | 139  |
| OSP-125/10(P4)50(8X10)    | 93   | 125  | 10    | V-8           | 6"BSP        |                   | 285  | 277  | 230  | 200  | 170  | 147  |
| OSP-125/11(P4)50(10X10)   | 110  | 150  | 11    | V-10          | 6"BSP        |                   | 314  | 305  | 253  | 220  | 187  | 162  |
| OSP-125/12(P4)50(10X10)   | 130  | 175  | 12    | V-10          | 6"BSP        |                   | 342  | 332  | 276  | 240  | 204  | 176  |
| OSP-125/13(P4)50(10X10)   | 130  | 175  | 13    | V-10          | 6"BSP        |                   | 371  | 360  | 299  | 260  | 221  | 191  |
| OSP-125/14(P4)50(10X10)   | 150  | 200  | 14    | V-10          | 6"BSP        |                   | 399  | 388  | 322  | 280  | 238  | 206  |
| OSP-125/15(P4)50(10X10)   | 150  | 200  | 15    | V-10          | 6"BSP        |                   | 428  | 416  | 345  | 300  | 255  | 221  |
| OSP-125/16(P4)50(10X10)   | 185  | 250  | 16    | V-10          | 6"BSP        |                   | 456  | 443  | 368  | 320  | 272  | 235  |
| OSP-125/17(P4)50(10X10)   | 185  | 250  | 17    | V-10          | 6"BSP        |                   | 485  | 471  | 391  | 340  | 289  | 250  |

# Technical Data

## Submersible Pump OSP- 125

| PUMP MODEL                | STAGE | MOTOR         |              | PUMP     |     |     | MOTOR     |      |
|---------------------------|-------|---------------|--------------|----------|-----|-----|-----------|------|
|                           |       | JOINING MOTOR | POWER ( KW ) | Length C | E*  | E** | Weight Kg | OD D |
| OSP-125/1-A(P4)50(6X10)   | 1-A   | V-6           | 7.5          | 656      | 222 | 226 | 28.42     | 144  |
| OSP-125/1(P4)50(6X10)     | 1     | V-6           | 11.0         | 656      | 222 | 226 | 28.42     | 144  |
| OSP-125/2-AA(P4)50(6X10)  | 2-AA  | V-6           | 13.0         | 812      | 222 | 226 | 34.93     | 144  |
| OSP-125/2-A(P4)50(6X10)   | 2-A   | V-6           | 18.5         | 812      | 222 | 226 | 34.93     | 144  |
| OSP-125/2(P4)50(6X10)     | 2     | V-6           | 22.0         | 812      | 222 | 226 | 34.93     | 144  |
| OSP-125/3-AA(P4)50(6X10)  | 3-AA  | V-6           | 22.0         | 968      | 222 | 226 | 41.45     | 144  |
| OSP-125/3-A(P4)50(6X10)   | 3-A   | V-6           | 26.0         | 968      | 222 | 226 | 41.45     | 144  |
| OSP-125/3(P4)50(6X10)     | 3     | V-6           | 30.0         | 968      | 222 | 226 | 41.45     | 144  |
| OSP-125/4-AA(P4)50(6X10)  | 4-AA  | V-6           | 37.0         | 1124     | 222 | 226 | 47.96     | 144  |
| OSP-125/4-A(P4)50(6X10)   | 4-A   | V-6           | 37.0         | 1124     | 222 | 226 | 47.96     | 144  |
| OSP-125/4(P4)50(6X10)     | 4     | V-6           | 37.0         | 1124     | 222 | 226 | 54.48     | 144  |
| OSP-125/5-AA(P4)50(6X10)  | 5-AA  | V-6           | 45.0         | 1280     | 222 | 226 | 54.48     | 144  |
| OSP-125/5-A(P4)50(6X10)   | 5-A   | V-6           | 45.0         | 1280     | 222 | 226 | 54.48     | 144  |
| OSP-125/5(P4)50(8X10)     | 5     | V-8           | 55.0         | 1300     | 222 | 226 | 57.34     | 189  |
| OSP-125/6-AA(P4)50(8X10)  | 6-AA  | V-8           | 55.0         | 1456     | 222 | 226 | 63.85     | 189  |
| OSP-125/6-A(P4)50(8X10)   | 6-A   | V-8           | 55.0         | 1456     | 222 | 226 | 63.85     | 189  |
| OSP-125/6(P4)50(8X10)     | 6     | V-8           | 67.0         | 1456     | 229 | 232 | 63.85     | 189  |
| OSP-125/7-AA(P4)50(8X10)  | 7-AA  | V-8           | 67.0         | 1612     |     |     | 70.37     | 189  |
| OSP-125/7-A(P4)50(8X10)   | 7-A   | V-8           | 67.0         | 1612     |     |     | 70.37     | 189  |
| OSP-125/7(P4)50(8X10)     | 7     | V-8           | 75.0         | 1612     |     |     | 70.37     | 189  |
| OSP-125/8-AA(P4)50(8X10)  | 8-AA  | V-8           | 75.0         | 1768     |     |     | 76.89     | 189  |
| OSP-125/8-A(P4)50(8X10)   | 8-A   | V-8           | 75.0         | 1768     |     |     | 76.88     | 189  |
| OSP-125/8(P4)50(8X10)     | 8     | V-8           | 75.0         | 1768     |     |     | 76.88     | 189  |
| OSP-125/9-AA(P4)50(8X10)  | 9-AA  | V-8           | 93.0         | 1924     |     |     | 83.4      | 189  |
| OSP-125/9-A(P4)50(8X10)   | 9-A   | V-8           | 93.0         | 1924     |     |     | 83.4      | 189  |
| OSP-125/9(P4)50(8X10)     | 9     | V-8           | 93.0         | 1924     |     |     | 83.40     | 189  |
| OSP-125/10-AA(P4)50(8X10) | 10-AA | V-8           | 93.0         | 2080     |     |     | 89.92     | 189  |
| OSP-125/10-A(P4)50(8X10)  | 10-A  | V-8           | 93.0         | 2080     |     |     | 89.92     | 189  |
| OSP-125/10(P4)50(8X10)    | 10    | V-8           | 93.0         | 2080     |     |     | 89.92     | 189  |
| OSP-125/11(P4)50(10X10)   | 11    | V-10          | 110.0        | 2236     |     |     | 96.429    | 236  |
| OSP-125/12(P4)50(10X10)   | 12    | V-10          | 130.0        | 2392     |     |     | 102.944   | 236  |
| OSP-125/13(P4)50(10X10)   | 13    | V-10          | 130.0        | 2548     |     |     | 109.459   | 236  |
| OSP-125/14(P4)50(10X10)   | 14    | V-10          | 150.0        | 2704     |     |     | 115.974   | 236  |
| OSP-125/15(P4)50(10X10)   | 15    | V-10          | 150.0        | 2860     |     |     | 122.489   | 236  |
| OSP-125/16(P4)50(10X10)   | 16    | V-10          | 185.0        | 3016     |     |     | 129.004   | 236  |
| OSP-125/17(P4)50(10X10)   | 17    | V-10          | 185.0        | 3172     |     |     | 135.519   | 236  |

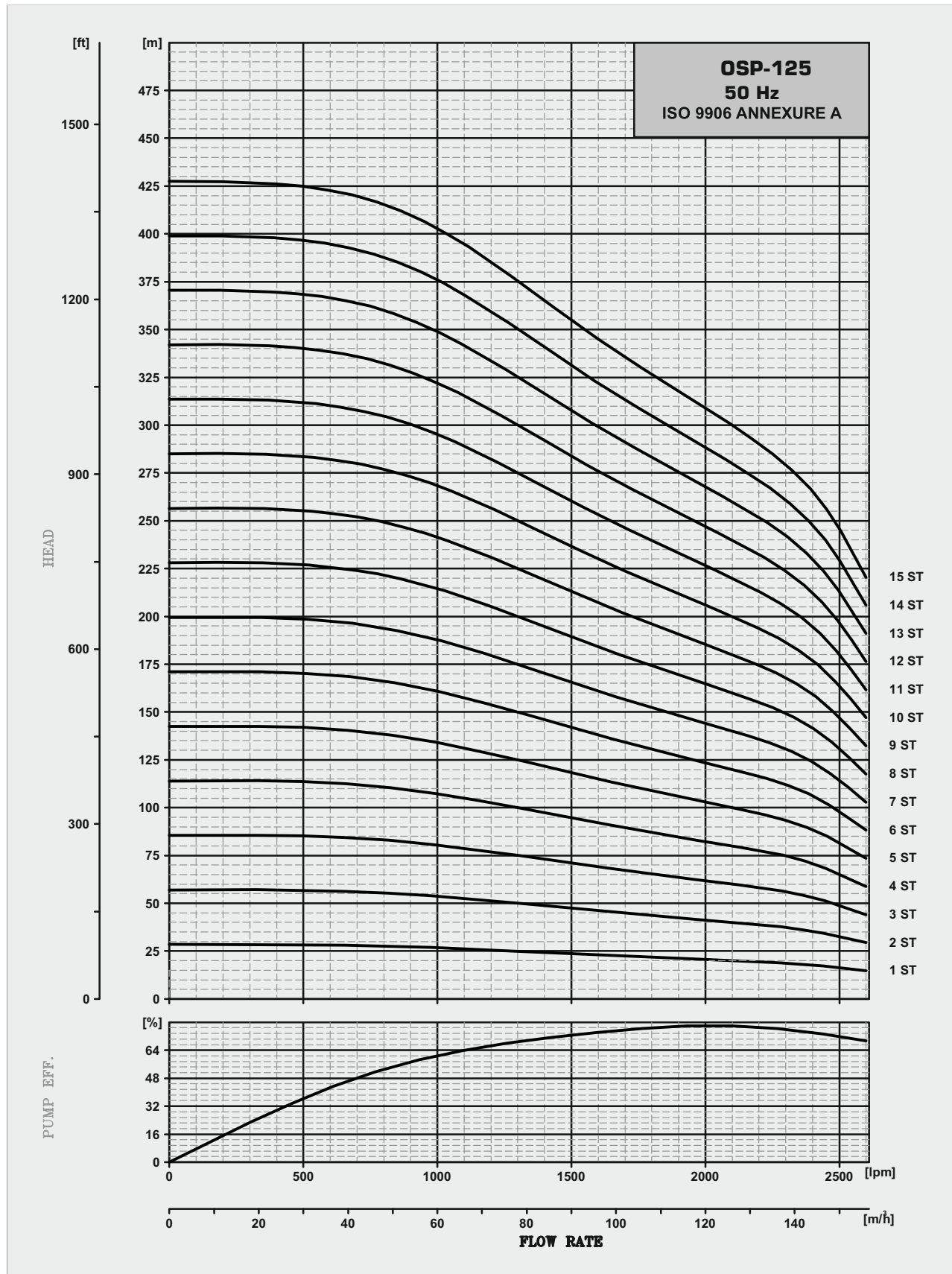


FROM: 1 STAGE TO 5-A STAGE, ALSO AVAILABLE WITH 8" MOTOR JOINING (8X10)

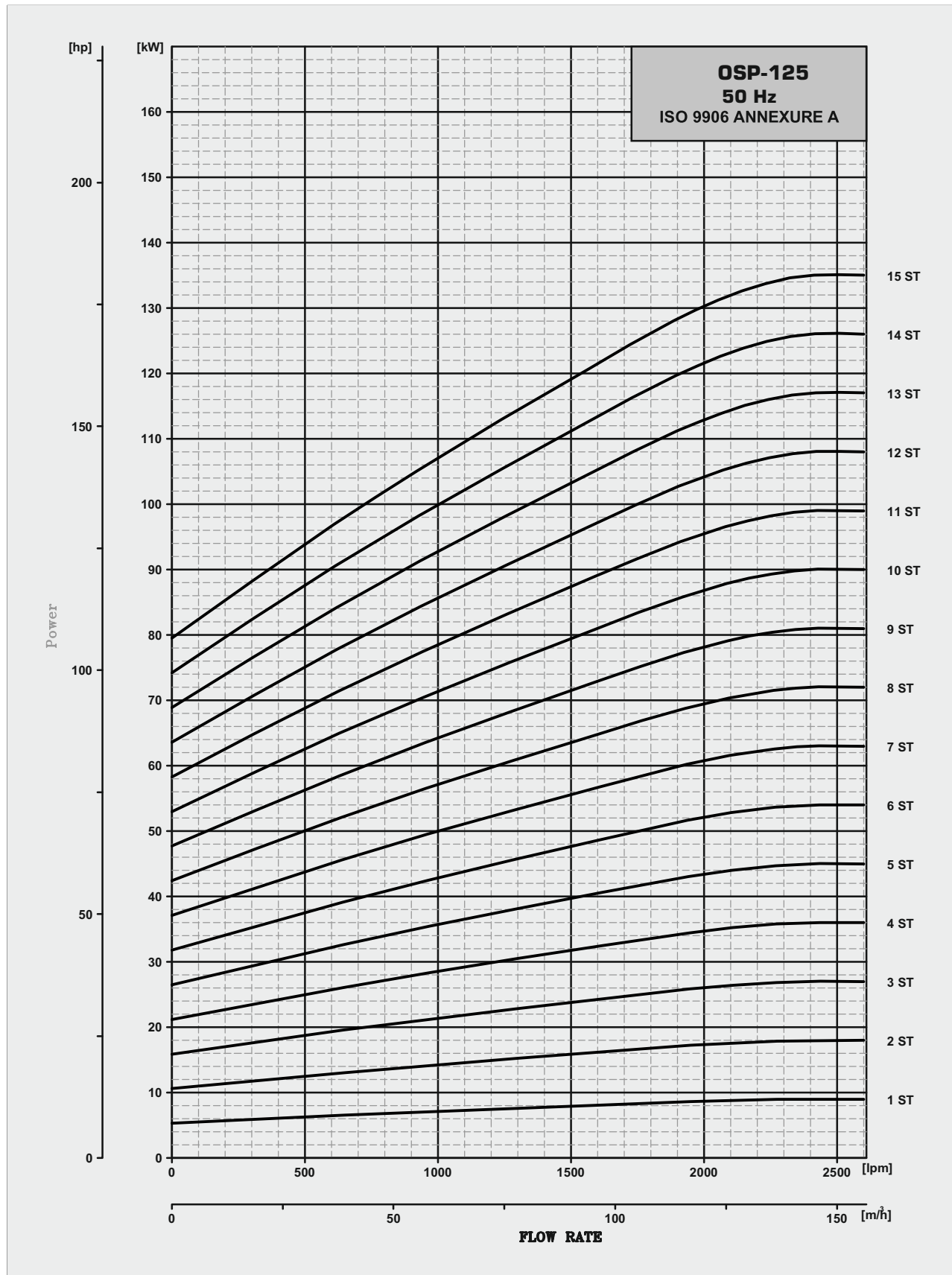
\* MAX.DIA OF PUMP WITH ONE MOTOR CABLE

\*\* MAX.DIA OF PUMP WITH TWO MOTOR CABLE

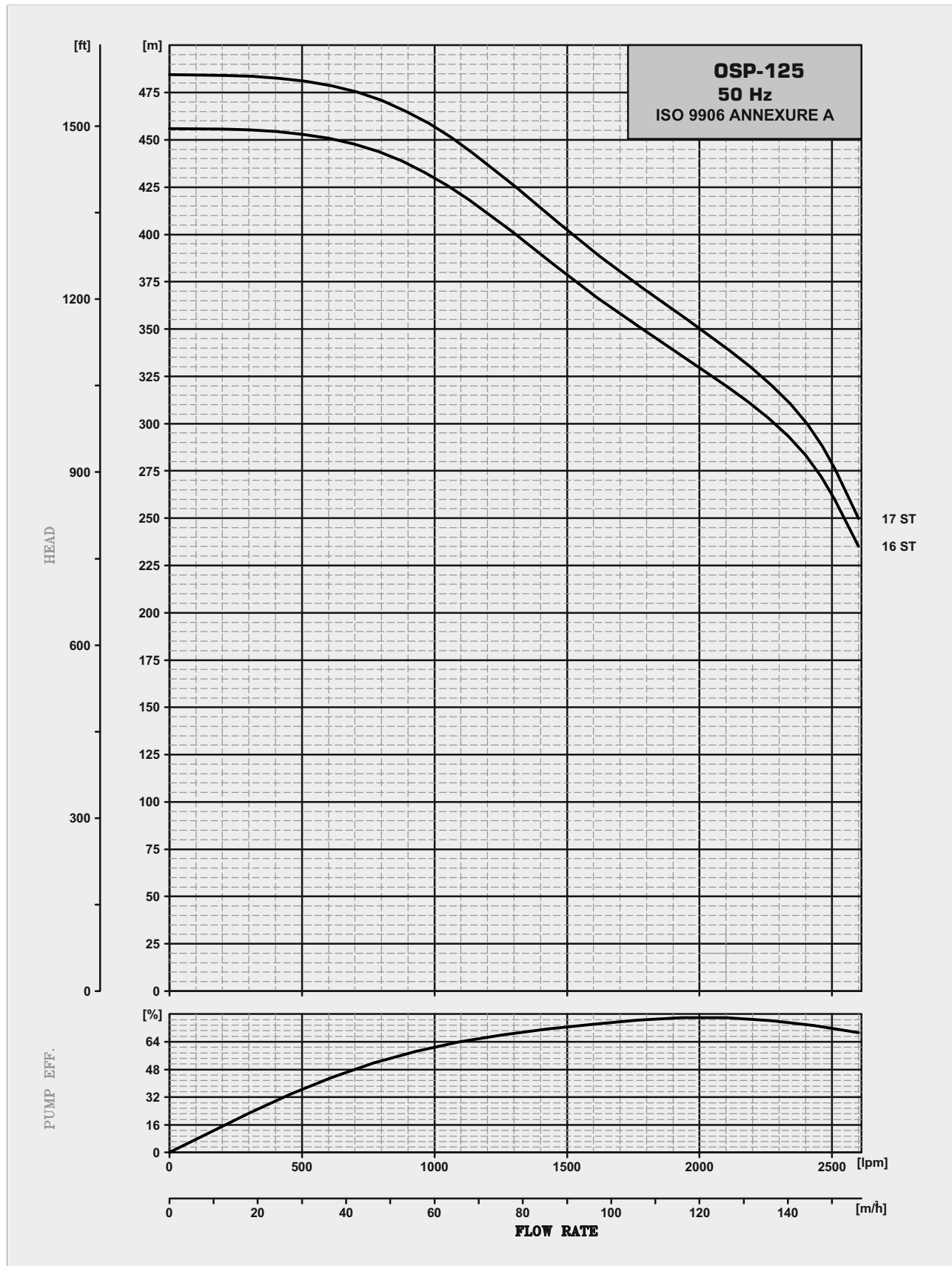
## Performance Curves



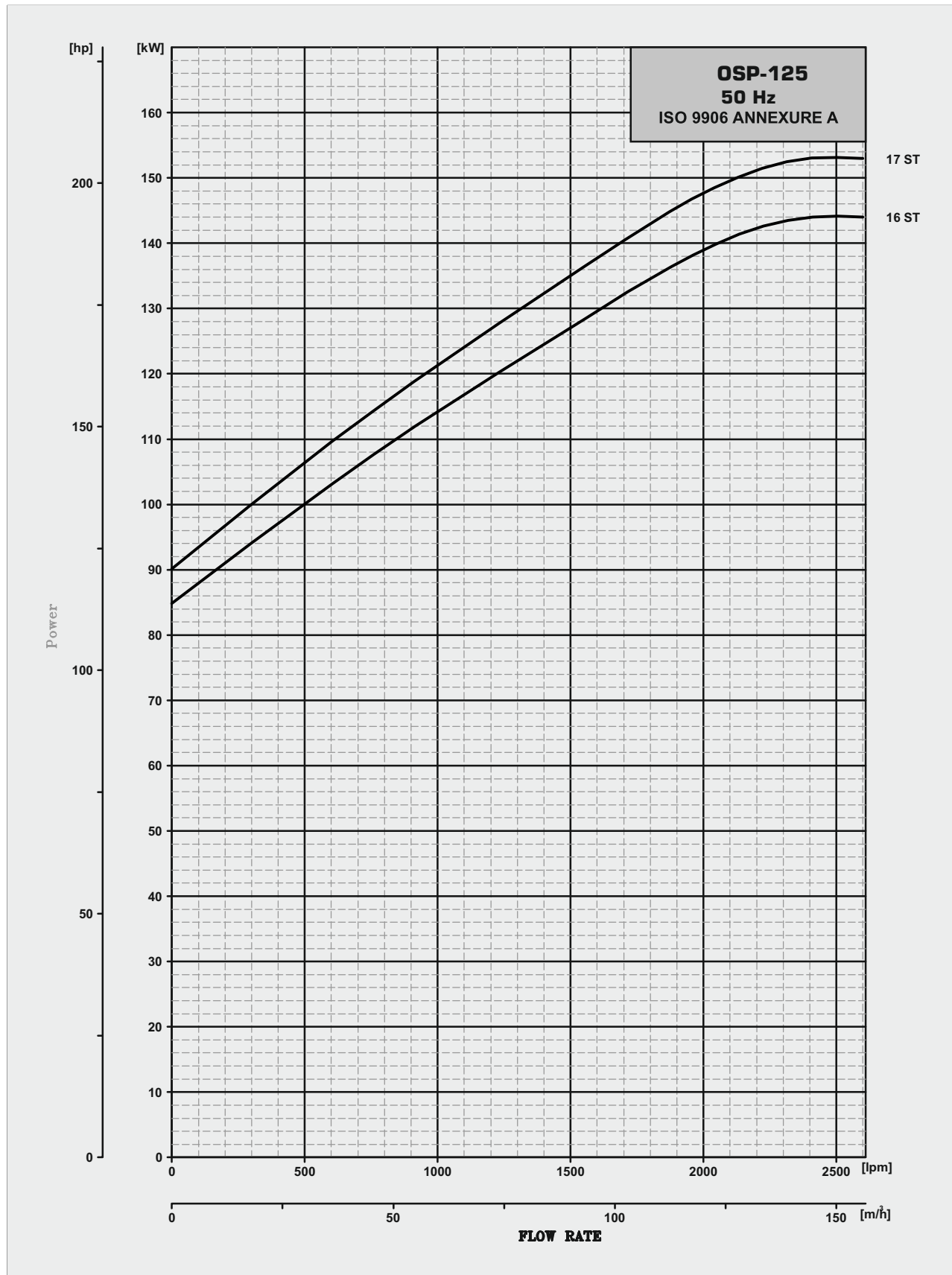
## Power Curves



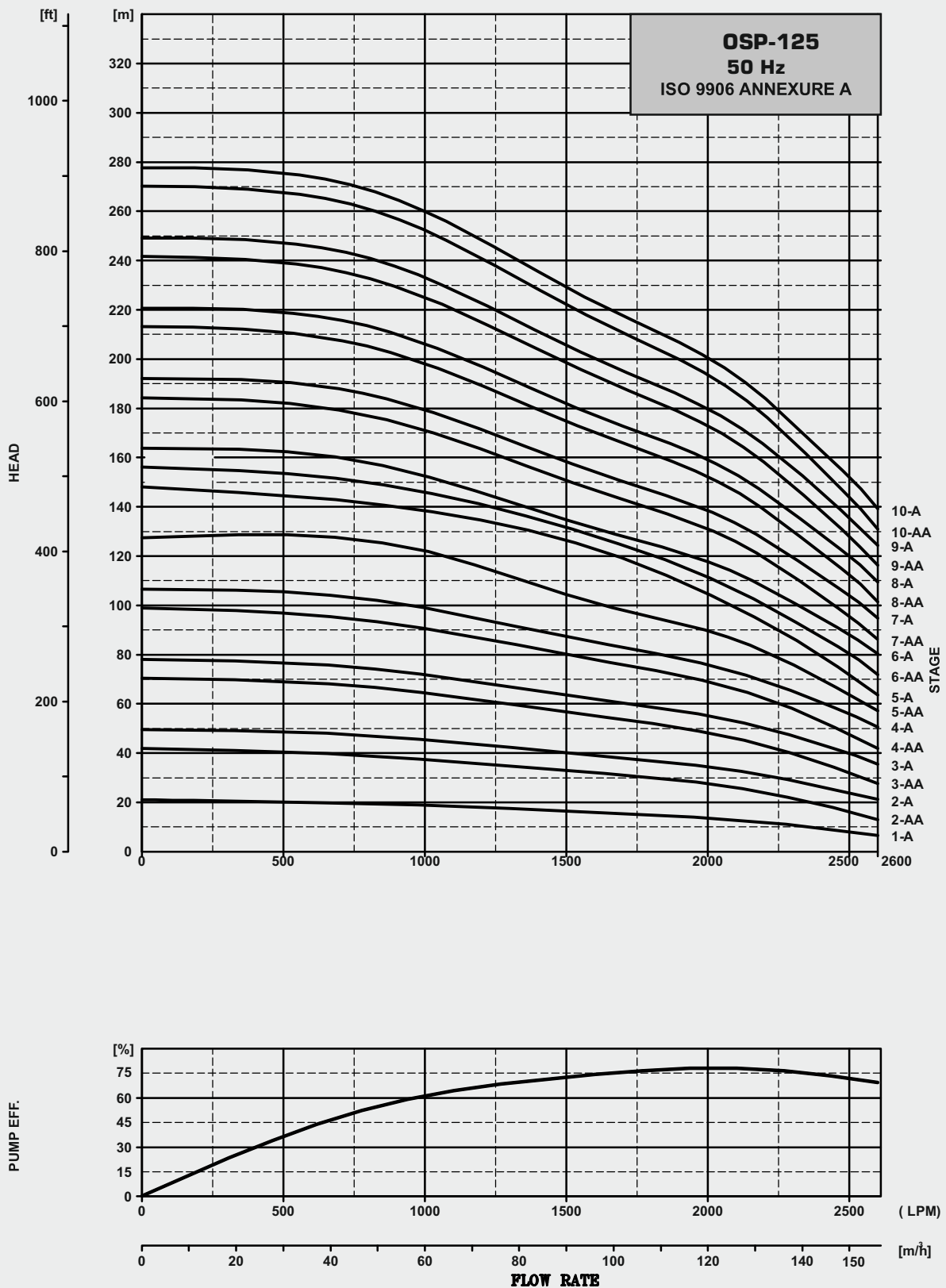
## Performance Curves



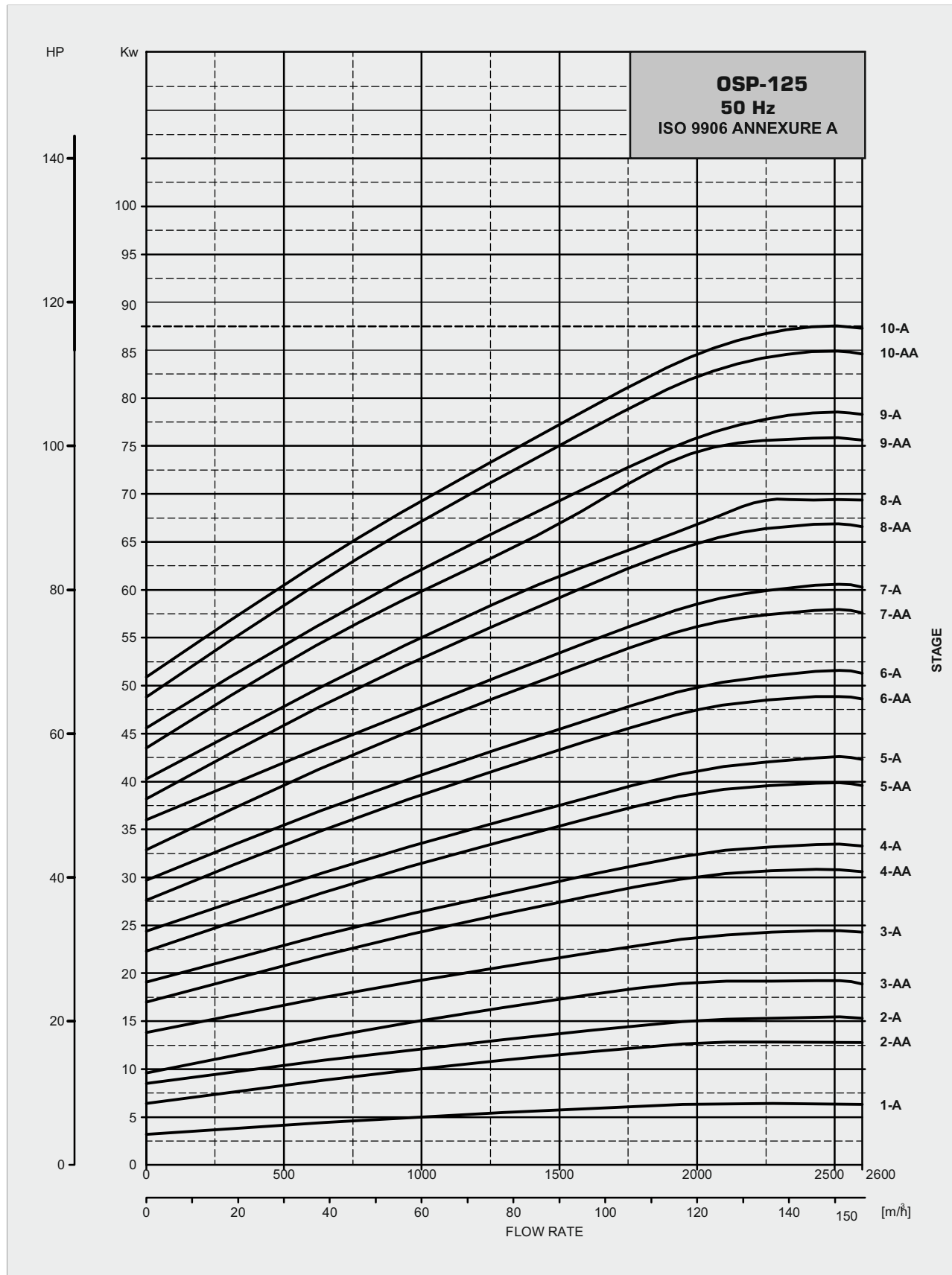
## Power Curves



## Performance Curves



## Power Curves



## Performance Table

### Submersible Pump OSP- 160

| MODEL OSP-160              | K.W. | H.P. | Stage | Motor Joining | Out let Size | Discharge               |      |       |      |      |      |      |
|----------------------------|------|------|-------|---------------|--------------|-------------------------|------|-------|------|------|------|------|
|                            |      |      |       |               |              | M <sup>3</sup> /H (LPM) | 0    | 60    | 90   | 120  | 162  | 180  |
|                            |      |      |       |               |              |                         | 0    | 1000  | 1500 | 2000 | 2700 | 3000 |
| OSP-160/1-A(P4)50(6X10)    | 9.3  | 12.5 | 1-A   | V-6           | 6"BSP        | HEAD IN METERS          | 24   | 20.5  | 18   | 16   | 12   | 9.5  |
| OSP-160/1(P4)50(6X10)      | 13   | 17.5 | 1     | V-6           | 6"BSP        |                         | 32.0 | 29.5  | 26.2 | 23.3 | 20.0 | 17.5 |
| OSP-160/2-AA(P4)50(6X10)   | 18.5 | 25   | 2-AA  | V-6           | 6"BSP        |                         | 48   | 41    | 36   | 32   | 24   | 19   |
| OSP-160/2-A(P4)50(6X10)    | 22   | 30   | 2-A   | V-6           | 6"BSP        |                         | 56   | 50    | 44   | 39   | 32   | 27   |
| OSP-160/2(P4)50(6X10)      | 26   | 35   | 2     | V-6           | 6"BSP        |                         | 64   | 59    | 52   | 47   | 40   | 35   |
| OSP-160/3-AA(P4)50(6X10)   | 30   | 40   | 3-AA  | V-6           | 6"BSP        |                         | 80   | 71    | 62   | 55   | 44   | 37   |
| OSP-160/3-A(P4)50(6X10)    | 37   | 50   | 3-A   | V-6           | 6"BSP        |                         | 88   | 80    | 70   | 63   | 52   | 45   |
| OSP-160/3(P4)50(6X10)      | 37   | 50   | 3     | V-6           | 6"BSP        |                         | 96   | 89    | 79   | 70   | 60   | 53   |
| OSP-160/4-AA(P4)50(6X10)   | 45   | 60   | 4-AA  | V-6           | 6"BSP        |                         | 112  | 100   | 88   | 79   | 64   | 54   |
| OSP-160/4-A(P4)50(6X10)    | 45   | 60   | 4-A   | V-6           | 6"BSP        |                         | 120  | 109   | 97   | 86   | 72   | 62   |
| OSP-160/4(P4)50(8X10)      | 55   | 75   | 4     | V-8           | 6"BSP        |                         | 128  | 118   | 105  | 93   | 80   | 70   |
| OSP-160/5-AA(P4)50(8X10)   | 55   | 75   | 5-AA  | V-8           | 6"BSP        |                         | 144  | 130   | 115  | 102  | 84   | 72   |
| OSP-160/5-A(P4)50(8X10)    | 55   | 75   | 5-A   | V-8           | 6"BSP        |                         | 152  | 139   | 123  | 109  | 92   | 80   |
| OSP-160/5(P4)50(8X10)      | 63   | 85   | 5     | V-8           | 6"BSP        |                         | 160  | 148   | 131  | 117  | 100  | 88   |
| OSP-160/6-AA(P4)50(8X10)   | 63   | 85   | 6-AA  | V-8           | 6"BSP        |                         | 176  | 159   | 141  | 125  | 104  | 89   |
| OSP-160/6-A(P4)50(8X10)    | 75   | 100  | 6-A   | V-8           | 6"BSP        |                         | 184  | 168   | 149  | 133  | 112  | 97   |
| OSP-160/6(P4)50(8X10)      | 75   | 100  | 6     | V-8           | 6"BSP        |                         | 192  | 177   | 157  | 140  | 120  | 105  |
| OSP-160/7-AA(P4)50(8X10)   | 75   | 100  | 7-AA  | V-8           | 6"BSP        |                         | 208  | 189   | 167  | 149  | 124  | 107  |
| OSP-160/7-A(P4)50(8X10)    | 93   | 125  | 7-A   | V-8           | 6"BSP        |                         | 216  | 198   | 175  | 156  | 132  | 115  |
| OSP-160/7(P4)50(8X10)      | 93   | 125  | 7     | V-8           | 6"BSP        |                         | 224  | 207   | 183  | 163  | 140  | 123  |
| OSP-160/8-AA(P4)50(8X10)   | 93   | 125  | 8-AA  | V-8           | 6"BSP        |                         | 240  | 218   | 193  | 172  | 144  | 124  |
| OSP-160/8-A(P4)50(8X10)    | 93   | 125  | 8-A   | V-8           | 6"BSP        |                         | 248  | 227   | 201  | 179  | 152  | 132  |
| OSP-160/8(P4)50(8X10)      | 93   | 125  | 8     | V-8           | 6"BSP        |                         | 256  | 236   | 210  | 186  | 160  | 140  |
| OSP-160/9-AA(P4)50(10X10)  | 110  | 150  | 9-AA  | V-10          | 6"BSP        |                         | 272  | 248   | 219  | 195  | 164  | 142  |
| OSP-160/9-A(P4)50(10X10)   | 110  | 150  | 9-A   | V-10          | 6"BSP        |                         | 280  | 257   | 228  | 202  | 172  | 152  |
| OSP-160/9(P4)50(10X10)     | 110  | 150  | 9     | V-10          | 6"BSP        |                         | 288  | 266   | 236  | 210  | 180  | 158  |
| OSP-160/10-AA(P4)50(10X10) | 110  | 150  | 10-AA | V-10          | 6"BSP        |                         | 304  | 277   | 246  | 218  | 184  | 160  |
| OSP-160/10-A(P4)50(10X10)  | 130  | 175  | 10-A  | V-10          | 6"BSP        |                         | 312  | 287   | 254  | 226  | 192  | 168  |
| OSP-160/10(P4)50(10X10)    | 130  | 175  | 10    | V-10          | 6"BSP        |                         | 320  | 295   | 262  | 233  | 200  | 175  |
| OSP-160/11(P4)50(10X10)    | 130  | 175  | 11    | V-10          | 6"BSP        |                         | 352  | 324.5 | 288  | 256  | 220  | 193  |
| OSP-160/12(P4)50(10X10)    | 150  | 200  | 12    | V-10          | 6"BSP        |                         | 384  | 354   | 314  | 280  | 240  | 210  |
| OSP-160/13(P4)50(10X10)    | 185  | 250  | 13    | V-10          | 6"BSP        |                         | 416  | 383.5 | 341  | 303  | 260  | 228  |
| OSP-160/14(P4)50(10X10)    | 185  | 250  | 14    | V-10          | 6"BSP        |                         | 448  | 413   | 367  | 326  | 280  | 245  |
| OSP-160/15(P4)50(10X10)    | 185  | 250  | 15    | V-10          | 6"BSP        |                         | 480  | 442.5 | 393  | 350  | 300  | 263  |

## Technical Data

## Submersible Pump OSP- 160

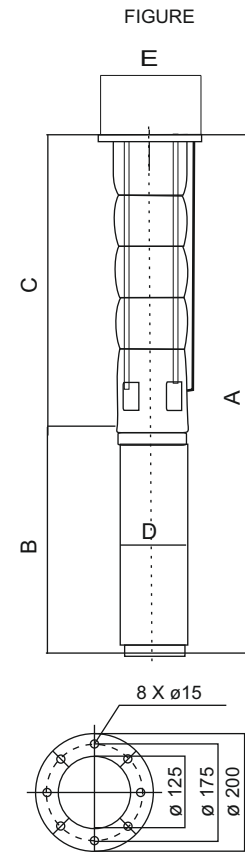
| PUMP MODEL                 | STAGE | MOTOR         |              | PUMP     |     |     | MOTOR     |      |
|----------------------------|-------|---------------|--------------|----------|-----|-----|-----------|------|
|                            |       | JOINING MOTOR | POWER ( KW ) | Length C | E*  | E** | Weight Kg | OD D |
| OSP-160/1-A(P4)50(6X10)    | 1-A   | V-6           | 9.3          | 656      | 222 | 226 | 28.42     | 144  |
| OSP-160/1(P4)50(6X10)      | 1     | V-6           | 13.0         | 656      | 222 | 226 | 28.42     | 144  |
| OSP-160/2-AA(P4)50(6X10)   | 2-AA  | V-6           | 18.5         | 812      | 222 | 226 | 34.93     | 144  |
| OSP-160/2-A(P4)50(6X10)    | 2-A   | V-6           | 22.0         | 812      | 229 | 232 | 34.93     | 144  |
| OSP-160/2(P4)50(6X10)      | 2     | V-6           | 26.0         | 812      | 229 | 232 | 34.93     | 144  |
| OSP-160/3-AA(P4)50(6X10)   | 3-AA  | V-6           | 30.0         | 968      | 229 | 232 | 41.45     | 144  |
| OSP-160/3-A(P4)50(6X10)    | 3-A   | V-6           | 37.0         | 968      | 229 | 232 | 41.45     | 144  |
| OSP-160/3(P4)50(6X10)      | 3     | V-6           | 37.0         | 968      | 229 | 232 | 41.45     | 144  |
| OSP-160/4-AA(P4)50(6X10)   | 4-AA  | V-6           | 45.0         | 1124     | 229 | 232 | 47.96     | 144  |
| OSP-160/4-A(P4)50(6X10)    | 4-A   | V-6           | 45.0         | 1124     | 229 | 232 | 47.96     | 144  |
| OSP-160/4(P4)50(8X10)      | 4     | V-8           | 55.0         | 1144     | 229 | 232 | 50.82     | 189  |
| OSP-160/5-AA(P4)50(8X10)   | 5-AA  | V-8           | 55.0         | 1300     | 229 | 232 | 57.34     | 189  |
| OSP-160/5-A(P4)50(8X10)    | 5-A   | V-8           | 55.0         | 1300     | 229 | 232 | 57.34     | 189  |
| OSP-160/5(P4)50(8X10)      | 5     | V-8           | 67.0         | 1300     | 229 | 232 | 57.34     | 189  |
| OSP-160/6-AA(P4)50(8X10)   | 6-AA  | V-8           | 67.0         | 1456     | 229 | 232 | 63.85     | 189  |
| OSP-160/6-A(P4)50(8X10)    | 6-A   | V-8           | 75.0         | 1456     | 229 | 232 | 63.85     | 189  |
| OSP-160/6(P4)50(8X10)      | 6     | V-8           | 75.0         | 1456     | 229 | 232 | 63.85     | 189  |
| OSP-160/7-AA(P4)50(8X10)   | 7-AA  | V-8           | 75.0         | 1612     |     |     | 70.37     | 189  |
| OSP-160/7-A(P4)50(8X10)    | 7-A   | V-8           | 93.0         | 1612     |     |     | 70.37     | 189  |
| OSP-160/7(P4)50(8X10)      | 7     | V-8           | 93.0         | 1612     |     |     | 70.37     | 189  |
| OSP-160/8-AA(P4)50(8X10)   | 8-AA  | V-8           | 93.0         | 1768     |     |     | 76.88     | 189  |
| OSP-160/8-A(P4)50(8X10)    | 8-A   | V-8           | 93.0         | 1768     |     |     | 76.88     | 189  |
| OSP-160/8(P4)50(8X10)      | 8     | V-8           | 93.0         | 1768     |     |     | 76.88     | 189  |
| OSP-160/9-AA(P4)50(10X10)  | 9-AA  | V-10          | 110          | 1924     |     |     | 83.4      | 236  |
| OSP-160/9-A(P4)50(10X10)   | 9-A   | V-10          | 110          | 1924     |     |     | 83.4      | 236  |
| OSP-160/9(P4)50(10X10)     | 9     | V-10          | 110          | 1924     |     |     | 83.40     | 236  |
| OSP-160/10-AA(P4)50(10X10) | 10-AA | V-10          | 110          | 2080     |     |     | 89.91     | 236  |
| OSP-160/10-A(P4)50(10X10)  | 10-A  | V-10          | 130          | 2080     |     |     | 89.91     | 236  |
| OSP-160/10(P4)50(10X10)    | 10    | V-10          | 130          | 2080     |     |     | 89.91     | 236  |
| OSP-160/11(P4)50(10X10)    | 11    | V-10          | 130          | 2236     |     |     | 96.43     | 236  |
| OSP-160/12(P4)50(10X10)    | 12    | V-10          | 150          | 2392     |     |     | 102.94    | 236  |
| OSP-160/13(P4)50(10X10)    | 13    | V-10          | 185          | 2548     |     |     | 109.46    | 236  |
| OSP-160/14(P4)50(10X10)    | 14    | V-10          | 185          | 2704     |     |     | 115.97    | 236  |
| OSP-160/15(P4)50(10X10)    | 15    | V-10          | 185          | 2860     |     |     | 122.49    | 236  |

FROM: 1 STAGE TO 4-A STAGE, ALSO AVAILABLE WITH 8" MOTOR JOINING (8X10)

\* MAX.DIA OF PUMP WITH ONE MOTOR CABLE

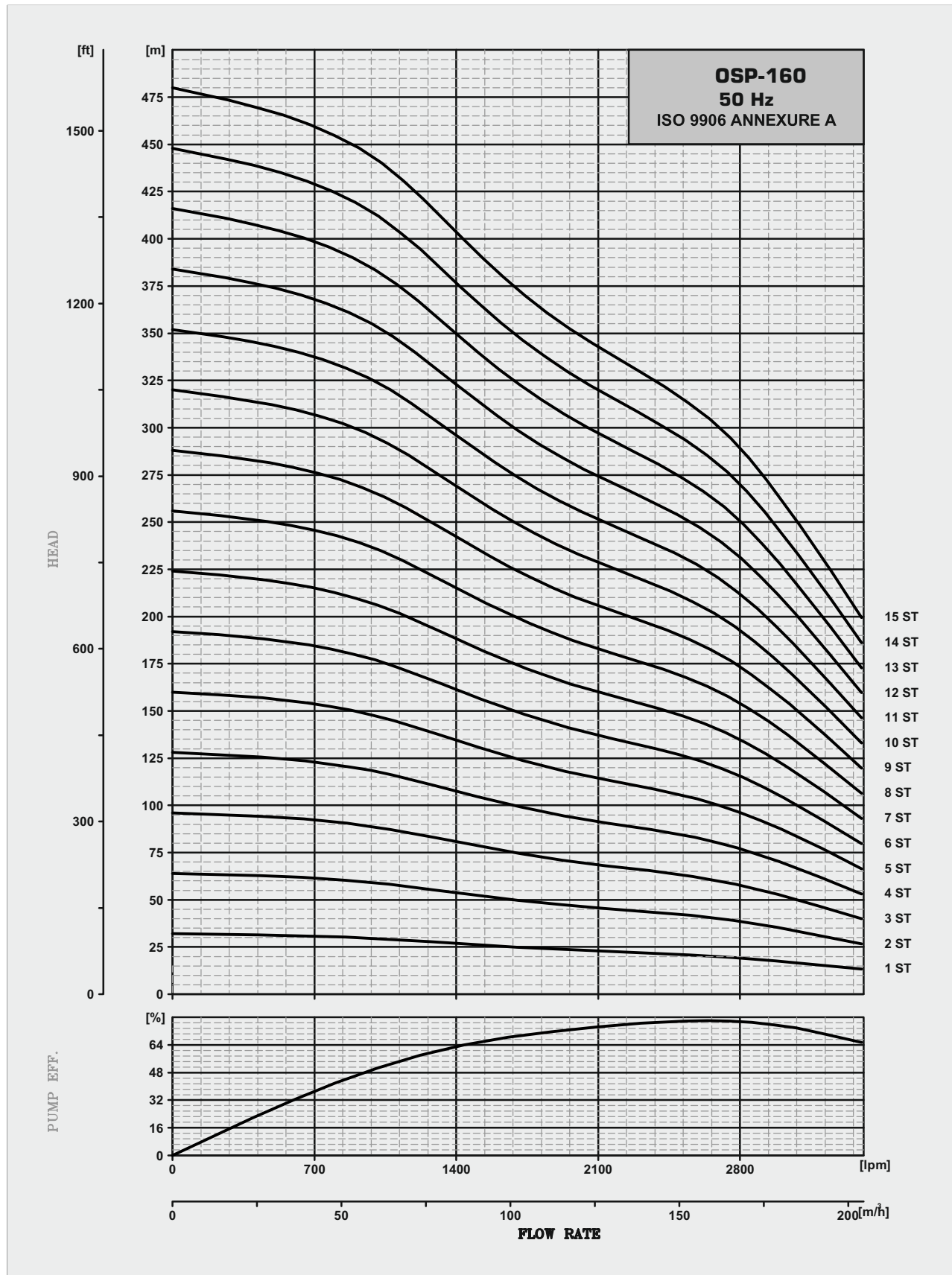
\*\* MAX.DIA OF PUMP WITH TWO MOTOR CABLE

ALL LENGTH IN MM

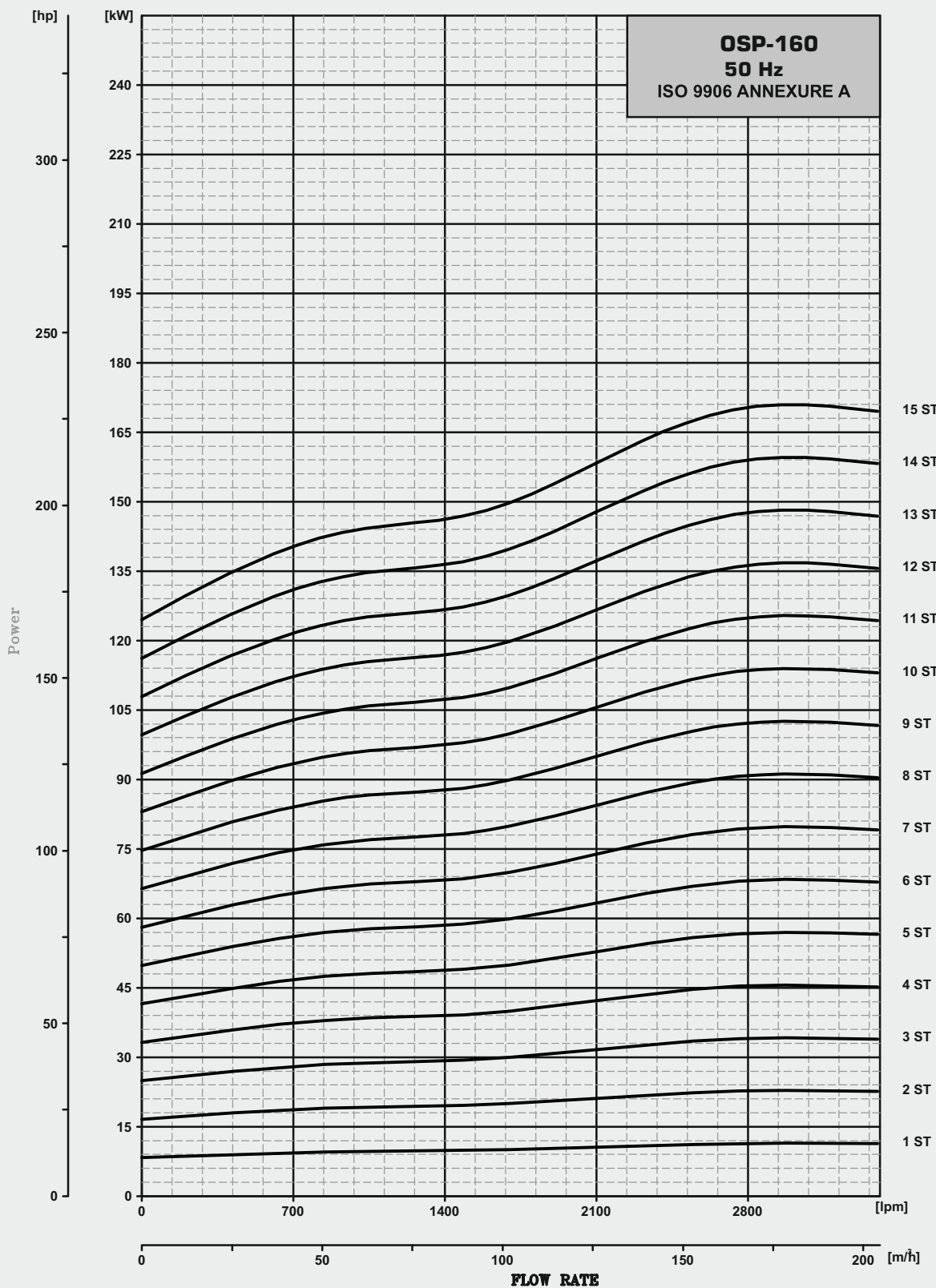


FIGURE

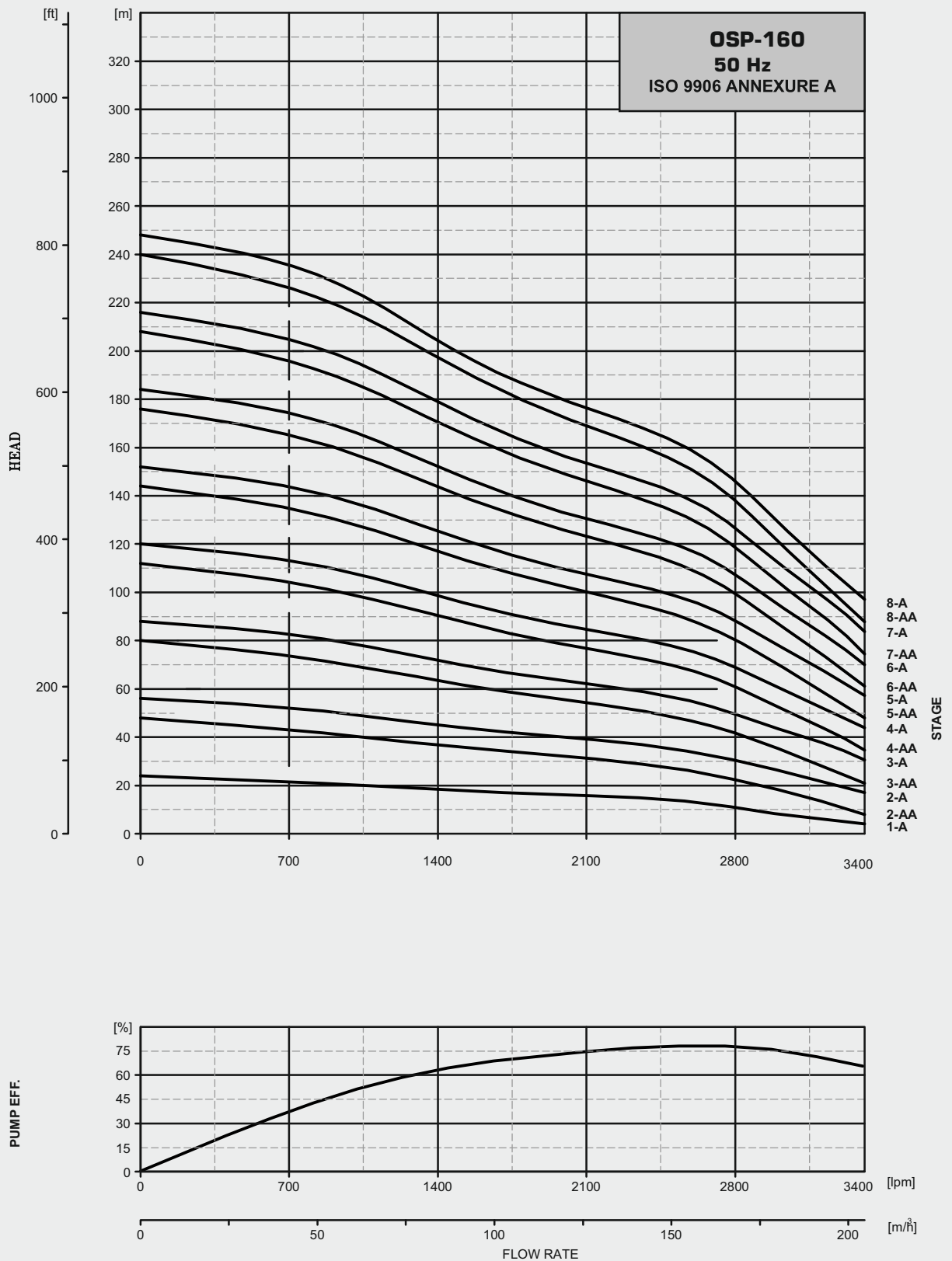
## Performance Curves



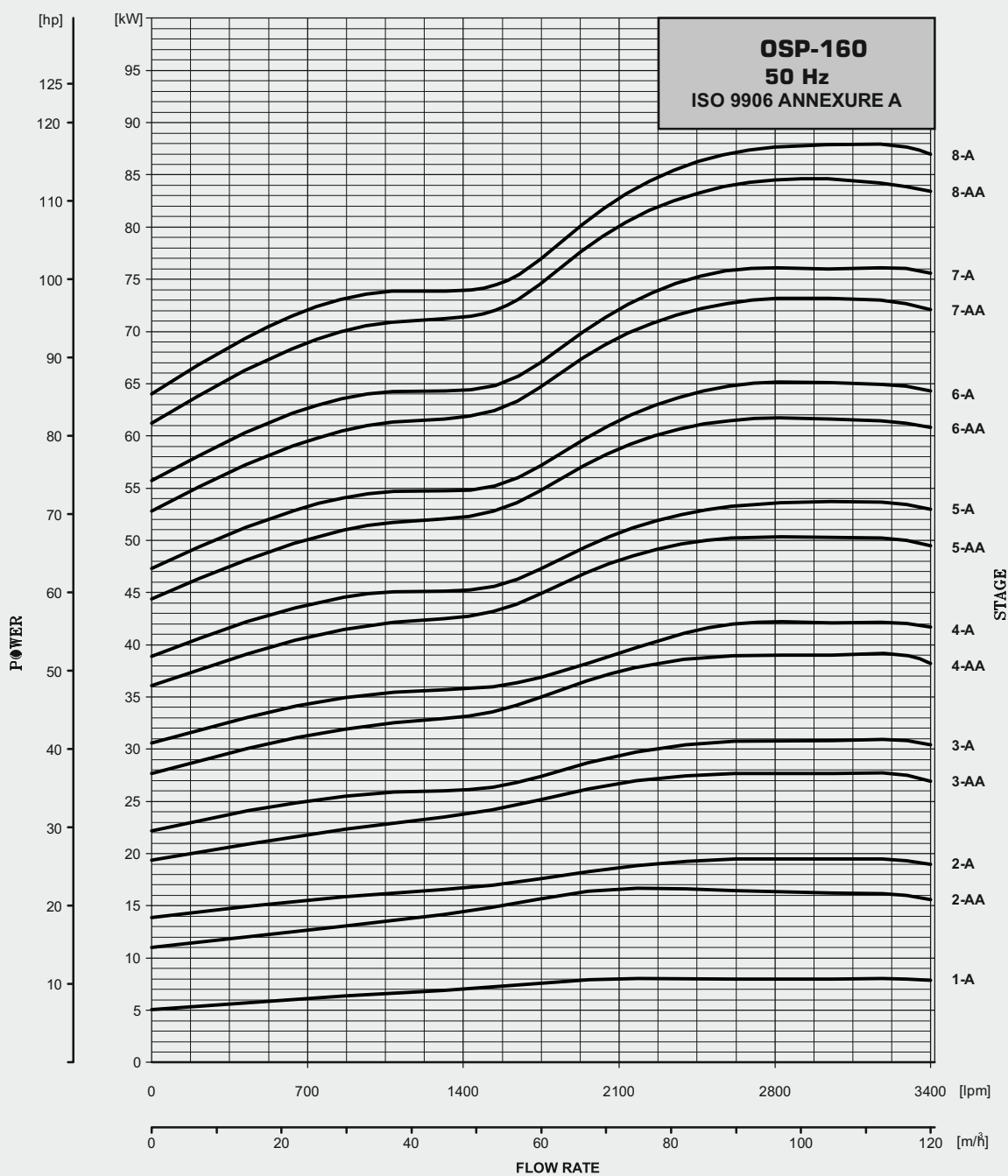
## Power Curves



## Performance Curves



## Power Curves



**OSP-215**

# 12"

## *Submersible Pump*



## 12" Submersible Pump General Data

### Construction

Submersible motor and pumps for bore wells of 12" ( 305 mm )

All sizes of pumps according to the NEMA standard

OSP series pumps are completely made out of AISI 304 stainless steel material.

Mixed flow Model : OSP-215

### Application

For water supply

For irrigation

For civil and industrial applications.

For fire fighting application

### General Data

Head range up to 245 meters

Flow range up to 216 M<sup>3</sup>/hr.

### Operating Condition

Maximum Ambient temperature : 50°C

Maximum quantity of sand 50 gm / m<sup>3</sup>

Minimum suction head required : 1.5 meter.

Max. start per hour 30 at regular intervals.

Direction of rotation : clockwise as seen from the pump coupling side.

Also available in NPT connection.

## Performance Table

### Submersible Pump OSP- 215

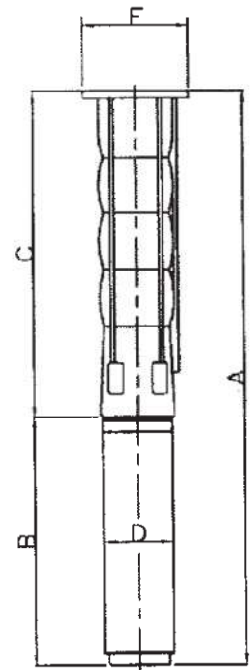
| MODEL OSP-215              | K.W. | H.P. | Stage | Motor Joining | Out let Size | Discharge                  |     |      |      |      |      |      |      |
|----------------------------|------|------|-------|---------------|--------------|----------------------------|-----|------|------|------|------|------|------|
|                            |      |      |       |               |              | M <sup>3</sup> /H<br>(LPM) | 0   | 90   | 144  | 180  | 216  | 240  | 276  |
|                            |      |      |       |               |              |                            | 0   | 1500 | 2400 | 3000 | 3600 | 4000 | 4600 |
| OSP-215/1-A(P4)50(6X12)    | 15   | 20   | 1-A   | V-6           | 6"           | HEAD IN METERS             | 27  | 24   | 20.5 | 17.5 | 13.5 | 10   | 4    |
| OSP-215/1(P4)50(6X12)      | 18.5 | 25   | 1     | V-6           | 6"           |                            | 39  | 35.5 | 30   | 27.5 | 24.5 | 22   | 16   |
| OSP-215/2-AA(P4)50(6X12)   | 30   | 40   | 2-AA  | V-6           | 6"           |                            | 54  | 48   | 41   | 35   | 27   | 20   | 8    |
| OSP-215/2-A(P4)50(6X12)    | 37   | 50   | 2-A   | V- 6          | 6"           |                            | 66  | 59   | 50   | 45   | 38   | 32   | 24   |
| OSP-215/2(P4)50(6X12)      | 45   | 60   | 2     | V- 6          | 6"           |                            | 78  | 71   | 60   | 55   | 49   | 44   | 32   |
| OSP-215/3-AA(P4)50(8X12)   | 55   | 75   | 3-AA  | V- 8          | 6"           |                            | 93  | 83   | 71.0 | 62   | 51   | 42   | 32   |
| OSP-215/3-A(P4)50(8X12)    | 55   | 75   | 3-A   | V- 8          | 6"           |                            | 105 | 95   | 80   | 72   | 62   | 54   | 36   |
| OSP-215/3(P4)50(8X12)      | 63   | 85   | 3     | V- 8          | 6"           |                            | 117 | 107  | 90   | 83   | 74   | 66   | 48   |
| OSP-215/4-AA(P4)50(8X12)   | 75   | 100  | 4-AA  | V- 8          | 6"           |                            | 132 | 119  | 101  | 90   | 76   | 64   | 40   |
| OSP-215/4-A(P4)50(8X12)    | 75   | 100  | 4-A   | V- 8          | 6"           |                            | 144 | 130  | 110  | 100  | 87   | 76   | 52   |
| OSP-215/4(P4)50(8X12)      | 75   | 100  | 4     | V- 8          | 6"           |                            | 156 | 142  | 120  | 110  | 98   | 88   | 64   |
| OSP-215/5-AA(P4)50(8X12)   | 93   | 125  | 5-AA  | V- 8          | 6"           |                            | 171 | 154  | 131  | 117  | 100  | 86   | 54   |
| OSP-215/5-A(P4)50(8X12)    | 93   | 125  | 5-A   | V- 8          | 6"           |                            | 183 | 166  | 140  | 127  | 111  | 98   | 68   |
| OSP-215/5(P4)50(8X12)      | 93   | 125  | 5     | V- 8          | 6"           |                            | 195 | 178  | 150  | 138  | 123  | 110  | 80   |
| OSP-215/6-AA(P4)50(10X12)  | 110  | 150  | 6-AA  | V- 10         | 6"           |                            | 210 | 190  | 161  | 145  | 125  | 108  | 72   |
| OSP-215/6-A(P4)50(10X12)   | 110  | 150  | 6-A   | V- 10         | 6"           |                            | 222 | 202  | 171  | 155  | 136  | 120  | 84   |
| OSP-215/6-(P4)50(10X12)    | 110  | 150  | 6     | V- 10         | 6"           |                            | 234 | 213  | 180  | 165  | 147  | 132  | 96   |
| OSP-215/7-AA(P4)50(10X12)  | 130  | 175  | 7-AA  | V- 10         | 6"           |                            | 249 | 226  | 191  | 173  | 150  | 130  | 88   |
| OSP-215/7-A(P4)50(10X12)   | 130  | 175  | 7-A   | V- 10         | 6"           |                            | 261 | 237  | 200  | 182  | 160  | 142  | 100  |
| OSP-215/7(P4)50(10X12)     | 130  | 175  | 7     | V- 10         | 6"           |                            | 273 | 249  | 210  | 193  | 172  | 154  | 112  |
| OSP-215/8-AA(P4)50(10X12)  | 150  | 200  | 8-AA  | V- 10         | 6"           |                            | 288 | 261  | 221  | 200  | 174  | 152  | 104  |
| OSP-215/8-A(P4)50(10X12)   | 150  | 200  | 8-A   | V- 10         | 6"           |                            | 300 | 273  | 231  | 210  | 185  | 164  | 116  |
| OSP-215/8(P4)50(10X12)     | 150  | 200  | 8     | V- 10         | 6"           |                            | 312 | 284  | 240  | 220  | 196  | 176  | 128  |
| OSP-215/9-AA(P4)50(10X12)  | 185  | 250  | 9-AA  | V- 10         | 6"           |                            | 327 | 297  | 251  | 228  | 199  | 174  | 120  |
| OSP-215/9-A(P4)50(10X12)   | 185  | 250  | 9-A   | V- 10         | 6"           |                            | 339 | 308  | 261  | 238  | 210  | 186  | 132  |
| OSP-215/9(P4)50(10X12)     | 185  | 250  | 9     | V- 10         | 6"           |                            | 351 | 320  | 270  | 248  | 221  | 198  | 144  |
| OSP-215/10-AA(P4)50(10X12) | 185  | 250  | 10-AA | V- 10         | 6"           |                            | 366 | 332  | 281  | 255  | 223  | 196  | 136  |
| OSP-215/10-A(P4)50(10X12)  | 185  | 250  | 10-A  | V- 10         | 6"           |                            | 378 | 344  | 291  | 265  | 234  | 208  | 148  |
| OSP-215/10-(P4)50(10X12)   | 185  | 250  | 10    | V- 10         | 6"           |                            | 390 | 355  | 300  | 275  | 245  | 220  | 160  |

## Technical Data

### Submersible Pump OSP- 215

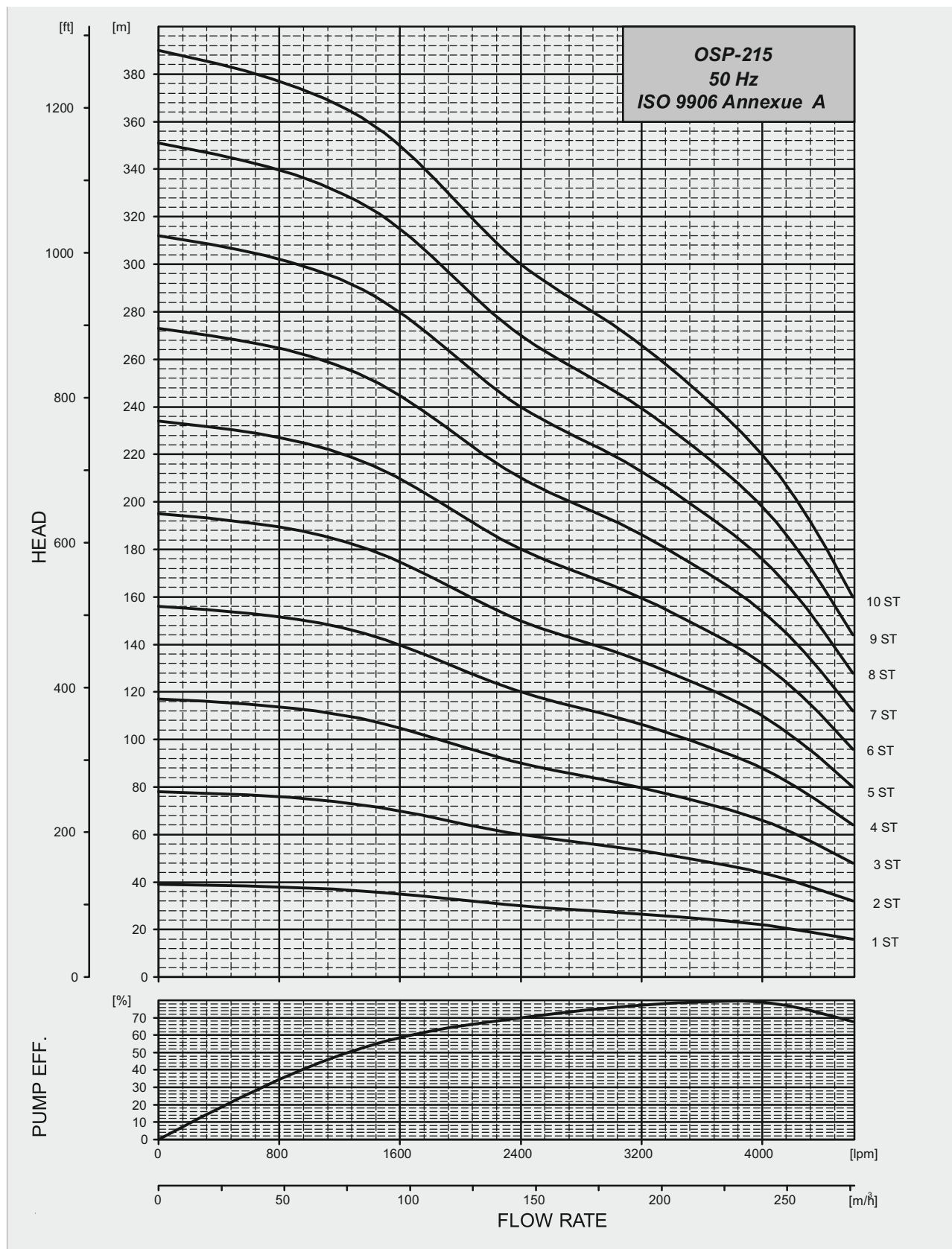
| Pump Model                 | Stage | Motor         |             | PUMP   |     |     |        | Motor |
|----------------------------|-------|---------------|-------------|--------|-----|-----|--------|-------|
|                            |       | Joining Motor | Power (KW ) | Length |     |     | Weight | OD    |
|                            |       |               |             | C      | E*  | E** | Kg     | D     |
| OSP-215/1-A(P4)50(6X12)    | 1-A   | V-6           | 15          | 696    | 241 | 247 | 33.93  | 144   |
| OSP-215/1(P4)50(6X12)      | 1     | V-6           | 18.5        | 696    | 241 | 247 | 33.93  | 144   |
| OSP-215/2-AA(P4)50(6X12)   | 2-AA  | V-6           | 30          | 872    | 241 | 247 | 43.00  | 144   |
| OSP-215/2-A(P4)50(6X12)    | 2-A   | V-6           | 37          | 872    | 241 | 247 | 47.39  | 144   |
| OSP-215/2(P4)50(6X12)      | 2     | V-6           | 45          | 872    | 241 | 247 | 47.39  | 144   |
| OSP-215/3-AA(P4)50(8X12)   | 3-AA  | V- 8          | 55          | 1048   | 241 | 247 | 57.35  | 189   |
| OSP-215/3-A(P4)50(8X12)    | 3-A   | V- 8          | 55          | 1048   | 241 | 247 | 57.35  | 189   |
| OSP-215/3(P4)50(8X12)      | 3     | V- 8          | 63          | 1048   | 241 | 247 | 57.35  | 189   |
| OSP-215/4-AA(P4)50(8X12)   | 4-AA  | V- 8          | 75          | 1224   | 241 | 247 | 66.81  | 189   |
| OSP-215/4-A(P4)50(8X12)    | 4-A   | V- 8          | 75          | 1224   | 241 | 247 | 66.81  | 189   |
| OSP-215/4(P4)50(8X12)      | 4     | V- 8          | 75          | 1224   | 241 | 247 | 66.81  | 189   |
| OSP-215/5-AA(P4)50(8X12)   | 5-AA  | V- 8          | 93          | 1400   | 241 | 247 | 76.27  | 189   |
| OSP-215/5-A(P4)50(8X12)    | 5-A   | V- 8          | 93          | 1400   | 241 | 247 | 76.27  | 189   |
| OSP-215/5(P4)50(8X12)      | 5     | V- 8          | 93          | 1400   | 241 | 247 | 76.27  | 189   |
| OSP-215/6-AA(P4)50(10X12)  | 6-AA  | V- 10         | 110         | N.A    | 241 | 247 |        | 236   |
| OSP-215/6-A(P4)50(10X12)   | 6-A   | V- 10         | 110         | N.A    | 241 | 247 |        | 236   |
| OSP-215/6(P4)50(10X12)     | 6     | V- 10         | 110         | N.A    | 241 | 247 |        | 236   |
| OSP-215/7-AA(P4)50(10X12)  | 7-AA  | V- 10         | 130         | N.A    | 241 | 247 |        | 236   |
| OSP-215/7-A(P4)50(10X12)   | 7-A   | V- 10         | 130         | N.A    | 241 | 247 |        | 236   |
| OSP-215/7(P4)50(10X12)     | 7     | V- 10         | 130         | N.A    | 241 | 247 |        | 236   |
| OSP-215/8-AA(P4)50(10X12)  | 8-AA  | V- 10         | 150         | N.A    | 241 | 247 |        | 236   |
| OSP-215/8-A(P4)50(10X12)   | 8-A   | V- 10         | 150         | N.A    | 241 | 247 |        | 236   |
| OSP-215/8(P4)50(10X12)     | 8     | V- 10         | 150         | N.A    | 241 | 247 |        | 236   |
| OSP-215/9-AA(P4)50(10X12)  | 9-AA  | V- 10         | 185         | N.A    | 241 | 247 |        | 236   |
| OSP-215/9-A(P4)50(10X12)   | 9-A   | V- 10         | 185         | N.A    | 241 | 247 |        | 236   |
| OSP-215/9(P4)50(10X12)     | 9     | V- 10         | 185         | N.A    | 241 | 247 |        | 236   |
| OSP-215/10-AA(P4)50(10X12) | 10-AA | V- 10         | 185         | N.A    | 241 | 247 |        | 236   |
| OSP-215/10-A(P4)50(10X12)  | 10-A  | V- 10         | 185         | N.A    | 241 | 247 |        | 236   |
| OSP-215/10(P4)50(10X12)    | 10    | V- 10         | 185         | N.A    | 241 | 247 |        | 236   |

FIGURE

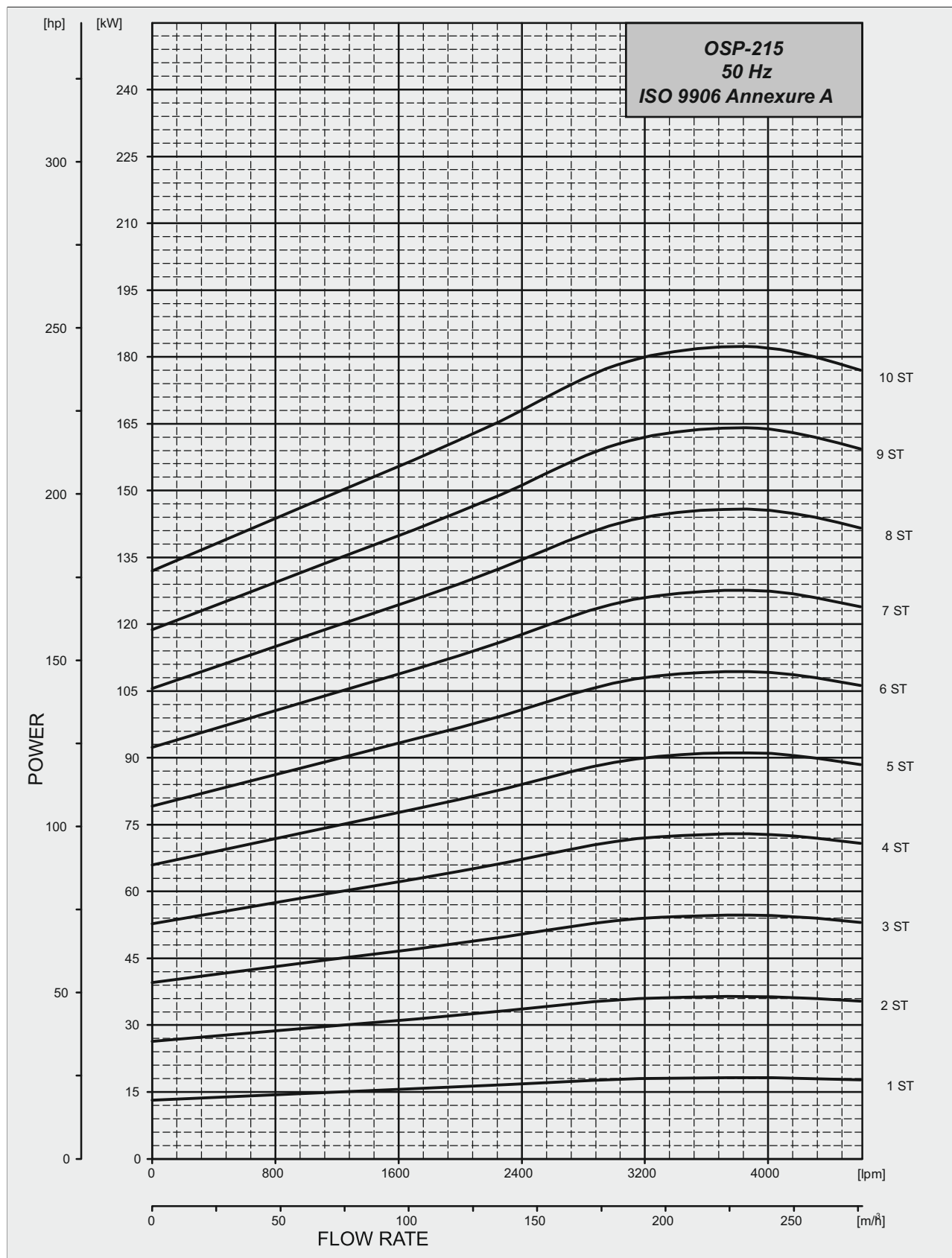


Note: MAX.DIA OF PUMP WITH ONE MOTOR CABLE  
MAX.DIA OF PUMP WITH TWO MOTOR CABLE  
All Length in mm

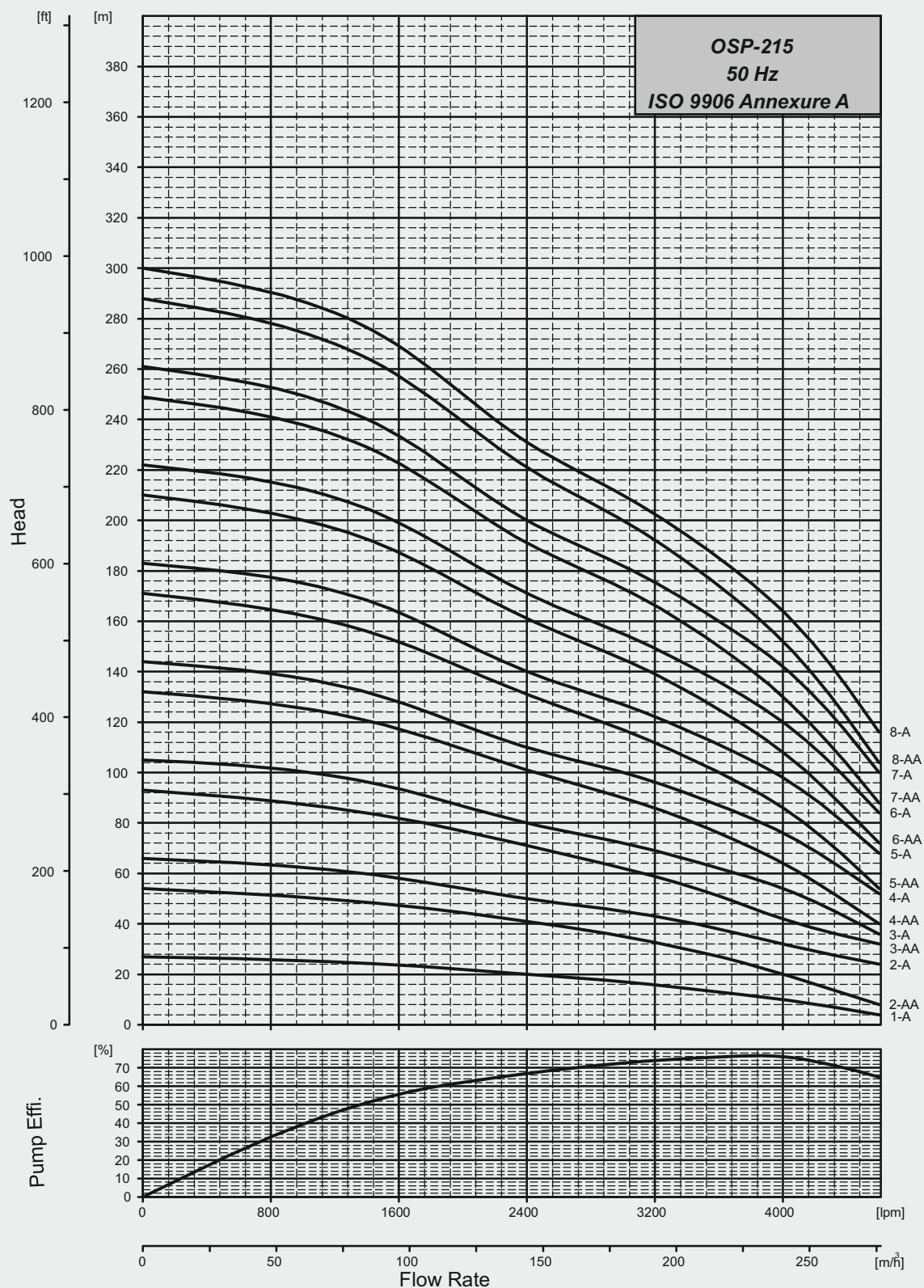
## Performance Curves



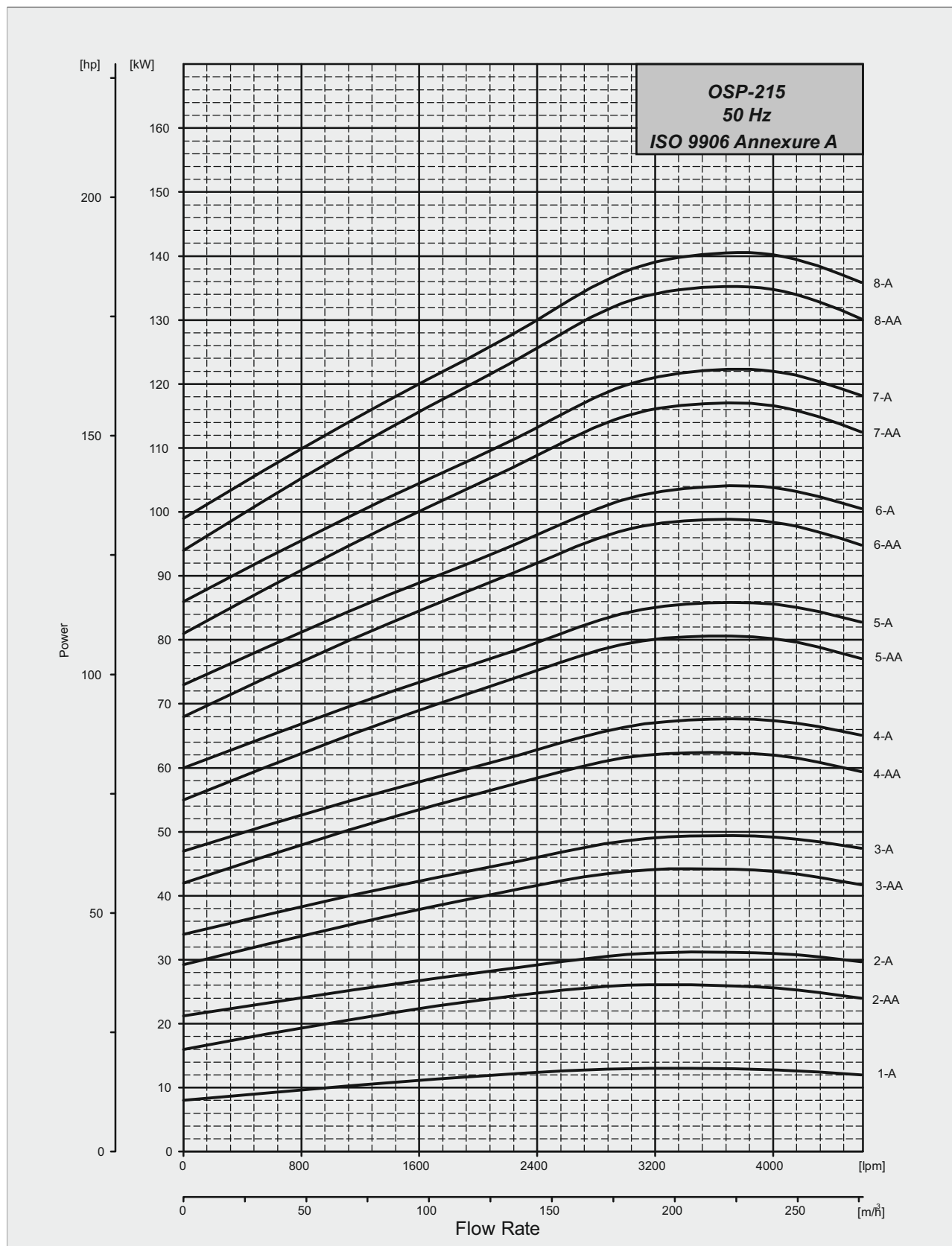
## Power Curves



## Performance Curves



## Power Curves



## 6" Rewindable Motors Performance Data 50 Hz

| P <sub>N</sub><br>[Kw] | Thrust<br>F[N] | U <sub>N</sub><br>[V] | n <sub>N</sub><br>[min <sup>-1</sup> ] | I <sub>N</sub><br>[A] | I <sub>A</sub><br>[A] | η(Eff.) [%]<br>at % load |      |      | Cos φ (PF)<br>at % load |      |      | T <sub>N</sub><br>[Nm] | T <sub>A</sub><br>[Nm] |
|------------------------|----------------|-----------------------|----------------------------------------|-----------------------|-----------------------|--------------------------|------|------|-------------------------|------|------|------------------------|------------------------|
|                        |                |                       |                                        |                       |                       | 50                       | 75   | 100  | 50                      | 75   | 100  |                        |                        |
| 4                      | 15500          | 380                   | 2910                                   | 10.4                  | 48                    | 0.71                     | 0.75 | 0.76 | 0.59                    | 0.71 | 0.78 | 13.1                   | 15.5                   |
|                        |                | 400                   | 2930                                   | 10.6                  | 51                    | 0.68                     | 0.73 | 0.76 | 0.53                    | 0.65 | 0.73 | 13.1                   | 17.3                   |
|                        |                | 415                   | 2930                                   | 10.9                  | 53                    | 0.65                     | 0.72 | 0.76 | 0.50                    | 0.61 | 0.69 | 13.0                   | 18.8                   |
| 5.5                    | 15500          | 380                   | 2860                                   | 13.7                  | 48                    | 0.74                     | 0.76 | 0.75 | 0.67                    | 0.78 | 0.83 | 18.3                   | 15.5                   |
|                        |                | 400                   | 2890                                   | 13.3                  | 51                    | 0.72                     | 0.76 | 0.76 | 0.62                    | 0.74 | 0.81 | 18.2                   | 17.3                   |
|                        |                | 415                   | 2890                                   | 13.4                  | 53                    | 0.71                     | 0.75 | 0.75 | 0.59                    | 0.71 | 0.78 | 18.1                   | 18.8                   |
| 7.5                    | 15500          | 380                   | 2860                                   | 18.3                  | 69                    | 0.77                     | 0.78 | 0.76 | 0.70                    | 0.80 | 0.84 | 25.0                   | 19.2                   |
|                        |                | 400                   | 2880                                   | 17.7                  | 63                    | 0.75                     | 0.78 | 0.77 | 0.65                    | 0.76 | 0.82 | 24.8                   | 21.5                   |
|                        |                | 415                   | 2890                                   | 17.7                  | 65                    | 0.73                     | 0.77 | 0.77 | 0.61                    | 0.73 | 0.80 | 24.7                   | 23.4                   |
| 9.3                    | 15500          | 380                   | 2850                                   | 22.0                  | 74                    | 0.79                     | 0.80 | 0.78 | 0.71                    | 0.80 | 0.84 | 31.1                   | 25.9                   |
|                        |                | 400                   | 2870                                   | 21.4                  | 78                    | 0.78                     | 0.79 | 0.78 | 0.64                    | 0.76 | 0.82 | 31.0                   | 29.0                   |
|                        |                | 415                   | 2880                                   | 21.2                  | 81                    | 0.76                     | 0.79 | 0.78 | 0.60                    | 0.72 | 0.80 | 30.9                   | 31.4                   |
| 11.0                   | 15500          | 380                   | 2860                                   | 25.8                  | 93                    | 0.78                     | 0.80 | 0.78 | 0.71                    | 0.80 | 0.85 | 36.7                   | 31.5                   |
|                        |                | 400                   | 2880                                   | 25.2                  | 98                    | 0.77                     | 0.80 | 0.79 | 0.65                    | 0.76 | 0.83 | 36.4                   | 35.3                   |
|                        |                | 415                   | 2890                                   | 25.1                  | 102                   | 0.75                     | 0.78 | 0.79 | 0.61                    | 0.73 | 0.80 | 36.3                   | 38.2                   |
| 13.0                   | 15500          | 380                   | 2880                                   | 30.1                  | 118                   | 0.80                     | 0.81 | 0.80 | 0.68                    | 0.79 | 0.84 | 43.1                   | 45.0                   |
|                        |                | 400                   | 2900                                   | 29.0                  | 125                   | 0.78                     | 0.80 | 0.80 | 0.61                    | 0.74 | 0.81 | 42.8                   | 50.3                   |
|                        |                | 415                   | 2900                                   | 29.7                  | 130                   | 0.76                     | 0.79 | 0.80 | 0.57                    | 0.70 | 0.78 | 42.7                   | 54.6                   |
| 15.0                   | 15500          | 380                   | 2880                                   | 33.9                  | 140                   | 0.81                     | 0.82 | 0.81 | 0.71                    | 0.81 | 0.85 | 49.7                   | 53.9                   |
|                        |                | 400                   | 2890                                   | 33.1                  | 145                   | 0.79                     | 0.81 | 0.81 | 0.65                    | 0.77 | 0.83 | 49.4                   | 60.4                   |
|                        |                | 415                   | 2900                                   | 33.0                  | 154                   | 0.77                     | 0.80 | 0.81 | 0.60                    | 0.73 | 0.81 | 49.3                   | 65.5                   |
| 18.5                   | 15500          | 380                   | 2860                                   | 42.3                  | 172                   | 0.81                     | 0.82 | 0.81 | 0.68                    | 0.78 | 0.84 | 61.7                   | 75.2                   |
|                        |                | 400                   | 2880                                   | 42.0                  | 182                   | 0.78                     | 0.81 | 0.81 | 0.61                    | 0.74 | 0.80 | 61.2                   | 84.3                   |
|                        |                | 415                   | 2890                                   | 42.5                  | 189                   | 0.76                     | 0.79 | 0.80 | 0.57                    | 0.70 | 0.77 | 61.1                   | 91.3                   |
| 22.0                   | 15500          | 380                   | 2880                                   | 49.1                  | 218                   | 0.82                     | 0.84 | 0.83 | 0.68                    | 0.78 | 0.84 | 72.6                   | 91.2                   |
|                        |                | 400                   | 2900                                   | 49.0                  | 231                   | 0.80                     | 0.82 | 0.82 | 0.61                    | 0.73 | 0.80 | 72.5                   | 102.2                  |
|                        |                | 415                   | 2910                                   | 49.6                  | 240                   | 0.77                     | 0.81 | 0.82 | 0.56                    | 0.69 | 0.77 | 72.2                   | 110.7                  |
| 26.0                   | 15500          | 380                   | 2880                                   | 57.5                  | 268                   | 0.83                     | 0.84 | 0.83 | 0.68                    | 0.79 | 0.86 | 86.0                   | 120.4                  |
|                        |                | 400                   | 2900                                   | 56.7                  | 281                   | 0.81                     | 0.83 | 0.83 | 0.61                    | 0.74 | 0.83 | 85.6                   | 134.7                  |
|                        |                | 415                   | 2910                                   | 57.3                  | 296                   | 0.78                     | 0.82 | 0.82 | 0.56                    | 0.69 | 0.80 | 85.3                   | 146.1                  |
| 30.0                   | 27500          | 380                   | 2900                                   | 66.4                  | 328                   | 0.82                     | 0.84 | 0.83 | 0.67                    | 0.78 | 0.84 | 98.8                   | 135.0                  |
|                        |                | 400                   | 2910                                   | 66.4                  | 347                   | 0.80                     | 0.83 | 0.83 | 0.60                    | 0.73 | 0.80 | 98.4                   | 151.0                  |
|                        |                | 415                   | 2910                                   | 67.5                  | 361                   | 0.77                     | 0.81 | 0.82 | 0.55                    | 0.68 | 0.74 | 98.2                   | 163.0                  |
| 37.0                   | 27500          | 380                   | 2890                                   | 82.0                  | 409                   | 0.83                     | 0.84 | 0.83 | 0.67                    | 0.78 | 0.85 | 122.1                  | 192.8                  |
|                        |                | 400                   | 2900                                   | 81.9                  | 433                   | 0.80                     | 0.83 | 0.83 | 0.60                    | 0.72 | 0.80 | 121.6                  | 215.8                  |
|                        |                | 415                   | 2910                                   | 83.9                  | 450                   | 0.77                     | 0.81 | 0.82 | 0.55                    | 0.68 | 0.76 | 121.3                  | 234.0                  |
| 45.0                   | 27500          | 380                   | 2895                                   | 90.9                  | 490                   | 85.7                     | 86.5 | 85.2 | 0.8                     | 0.85 | 0.88 | 149.0                  | 218.0                  |
|                        |                | 400                   | 2910                                   | 90.0                  | 520                   | 85.3                     | 86.5 | 86   | 0.75                    | 0.82 | 0.86 | 148.0                  | 240.0                  |
|                        |                | 415                   | 2910                                   | 88.0                  | 542                   | 84.4                     | 86.1 | 85.8 | 0.69                    | 0.80 | 0.85 | 147.0                  | 262.0                  |

## 8" Rewindable Motors Performance Data 50 Hz

| P <sub>n</sub><br>[Kw] | Thrust<br>F[N] | U <sub>N</sub><br>[V] | n <sub>N</sub><br>[min <sup>-1</sup> ] | I <sub>N</sub><br>[A] | I <sub>A</sub><br>[A] | η(Eff.) [%]<br>at % load |      |      | Cos φ (PF)<br>at % load |      |      | T <sub>N</sub><br>[Nm] | T <sub>A</sub><br>[Nm] |
|------------------------|----------------|-----------------------|----------------------------------------|-----------------------|-----------------------|--------------------------|------|------|-------------------------|------|------|------------------------|------------------------|
|                        |                |                       |                                        |                       |                       | 50                       | 75   | 100  | 50                      | 75   | 100  |                        |                        |
| 30                     | 45000          | 380                   | 2880                                   | 63                    | 300                   | 83.5                     | 84.4 | 83.1 | 0.89                    | 0.88 | 0.89 | 99                     | 126                    |
|                        |                | 400                   | 2900                                   | 60                    | 318                   | 83.6                     | 85.0 | 84.3 | 0.80                    | 0.86 | 0.89 | 99                     | 141                    |
|                        |                | 415                   | 2910                                   | 58                    | 332                   | 83.5                     | 85.2 | 84.9 | 0.77                    | 0.79 | 0.88 | 98                     | 151                    |
| 37                     | 45000          | 380                   | 2890                                   | 79                    | 378                   | 84.6                     | 85.3 | 84.9 | 0.80                    | 0.86 | 0.88 | 122                    | 156                    |
|                        |                | 400                   | 2900                                   | 76                    | 400                   | 83.9                     | 85.2 | 84.6 | 0.74                    | 0.82 | 0.86 | 122                    | 176                    |
|                        |                | 415                   | 2910                                   | 75                    | 412                   | 82.6                     | 84.5 | 84.3 | 0.70                    | 0.80 | 0.84 | 121                    | 190                    |
| 45                     | 45000          | 380                   | 2900                                   | 93                    | 491                   | 85.8                     | 86.4 | 85.2 | 0.79                    | 0.86 | 0.88 | 149                    | 218                    |
|                        |                | 400                   | 2910                                   | 90                    | 520                   | 85.3                     | 86.5 | 85.9 | 0.74                    | 0.82 | 0.86 | 148                    | 241                    |
|                        |                | 415                   | 2910                                   | 89                    | 541                   | 84.5                     | 86.2 | 85.8 | 0.69                    | 0.79 | 0.84 | 148                    | 263                    |
| 52                     | 45000          | 380                   | 2900                                   | 107                   | 575                   | 86.5                     | 86.7 | 85.3 | 0.81                    | 0.87 | 0.89 | 175                    | 284                    |
|                        |                | 400                   | 2910                                   | 103                   | 608                   | 86.4                     | 87.1 | 86.2 | 0.76                    | 0.84 | 0.87 | 175                    | 318                    |
|                        |                | 415                   | 2920                                   | 101                   | 633                   | 86.6                     | 87.0 | 86.7 | 0.71                    | 0.80 | 0.85 | 174                    | 345                    |
| 55                     | 45000          | 380                   | 2900                                   | 114                   | 624                   | 86.5                     | 86.9 | 85.7 | 0.78                    | 0.85 | 0.88 | 182                    | 301                    |
|                        |                | 400                   | 2910                                   | 110                   | 660                   | 85.9                     | 87.0 | 86.4 | 0.72                    | 0.82 | 0.86 | 181                    | 340                    |
|                        |                | 415                   | 2920                                   | 109                   | 688                   | 84.8                     | 86.4 | 86.2 | 0.67                    | 0.78 | 0.84 | 181                    | 366                    |
| 60                     | 45000          | 380                   | 2900                                   | 122                   | 698                   | 87.2                     | 87.6 | 86.5 | 0.81                    | 0.87 | 0.89 | 198                    | 319                    |
|                        |                | 400                   | 2900                                   | 116                   | 725                   | 86.8                     | 87.7 | 87.0 | 0.77                    | 0.84 | 0.88 | 197                    | 357                    |
|                        |                | 415                   | 2910                                   | 115                   | 768                   | 86.1                     | 87.4 | 87.1 | 0.73                    | 0.82 | 0.86 | 197                    | 387                    |
| 67                     | 45000          | 380                   | 2920                                   | 137                   | 759                   | 87.2                     | 87.6 | 86.4 | 0.79                    | 0.86 | 0.89 | 220                    | 352                    |
|                        |                | 400                   | 2900                                   | 133                   | 797                   | 86.5                     | 87.5 | 86.9 | 0.74                    | 0.82 | 0.86 | 220                    | 395                    |
|                        |                | 415                   | 2910                                   | 131                   | 828                   | 85.6                     | 87.0 | 86.6 | 0.69                    | 0.79 | 0.84 | 219                    | 427                    |
| 75                     | 45000          | 380                   | 2920                                   | 154                   | 892                   | 86.7                     | 87.1 | 85.9 | 0.79                    | 0.86 | 0.89 | 247                    | 419                    |
|                        |                | 400                   | 2910                                   | 148                   | 942                   | 86.2                     | 87.3 | 86.7 | 0.74                    | 0.83 | 0.87 | 246                    | 472                    |
|                        |                | 415                   | 2920                                   | 147                   | 982                   | 85.4                     | 86.9 | 86.6 | 0.69                    | 0.79 | 0.84 | 245                    | 510                    |
| 83                     | 45000          | 380                   | 2925                                   | 166                   | 1019                  | 87.8                     | 88.3 | 87.2 | 0.81                    | 0.87 | 0.89 | 275                    | 483                    |
|                        |                | 400                   | 2910                                   | 160                   | 1073                  | 87.5                     | 88.4 | 87.6 | 0.77                    | 0.84 | 0.88 | 273                    | 544                    |
|                        |                | 415                   | 2920                                   | 156                   | 1120                  | 87.2                     | 88.4 | 88.0 | 0.73                    | 0.82 | 0.86 | 273                    | 586                    |
| 93                     | 45000          | 380                   | 2910                                   | 188                   | 1186                  | 87.8                     | 88.4 | 87.5 | 0.77                    | 0.85 | 0.88 | 306                    | 597                    |
|                        |                | 400                   | 2920                                   | 183                   | 1276                  | 87.2                     | 88.3 | 87.8 | 0.71                    | 0.81 | 0.86 | 305                    | 626                    |
|                        |                | 415                   | 2930                                   | 184                   | 1308                  | 86.2                     | 87.8 | 87.7 | 0.65                    | 0.76 | 0.83 | 305                    | 676                    |

## NOTES

[illegible]



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