An ISO 9001, 14001 Certified Company

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

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

OSP-77 & OSP-95

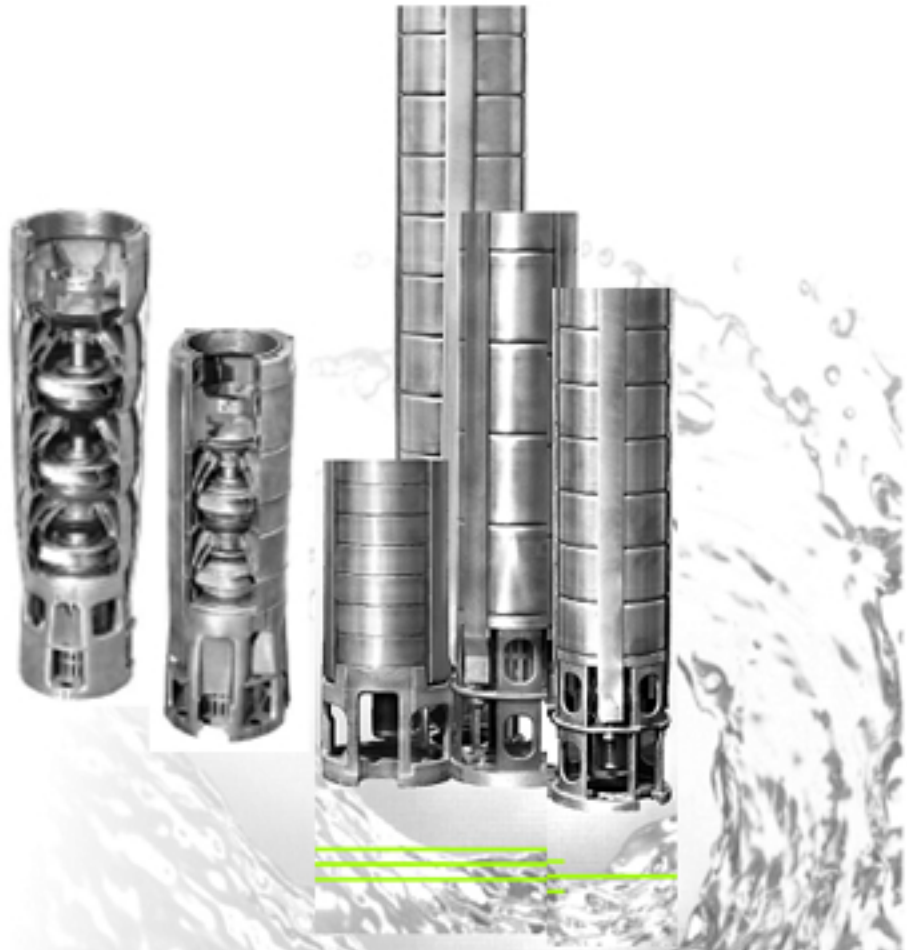
OSP-125 & OSP-160

4" 6" 8" 10"

Energy Efficient

Submersible Pump

60 Hz



ENERGY IS LIFE
B E E
CONSERVE IT
IS : 8034
CM/L- 9333880
An ISO 9001, 14001 Certified Company

Quality, Reliability, Excellence
OSWAL
PUMPS

Company Profile

Oswal Pumps Limted formerly known as Oswal Electricals (Pumps) started in 2000 has become now India's first uniquely 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 Electricals (Pumps) converted to Oswal Pumps Limited. In 2006 is one of the fastest growing company in the field of Subemersible pumps, Monoblock pumps and Electric motors.

Infrastructure :

Oswal Pumps Limted has its own plant covering an area of 585000 sq. ft. out of which 400000 sq. ft. is covered at the prestigious location on National Highway -1 near Kutail, Karnal well equipped with modern machineries for manufacturing of pumps and motors.

The company has to its credit more than 2 crores satisfied customers throughout India just in span of 9 to 10 years.

Oswal Pumps Limted. is an ISO-9001, ISO-14001 certified company and all products are ISI marked .Also certified for CE marking, B.E.E . marking and have maximum 5 star rating categories of Submersible pump sets. OSWAL Co. is one of the third manufacturers of Stainless Steel pumps in India.

OSWAL have their own in-house plant for:-

a) Stamping unit.
b) Aluminium die casting for rotor.
c) Aluminium die casting for motor body & parts.
d) Polywrapped and PVC winding wire for submersible motor.
e) Thrust Bearing.
f) Injection plastic moulding.
g) Stainless steel investement casting.
h) Stainless steel pipe.
i) Corrugated box facility.
j) Cast iron casting plant.
k) Super enamelled copper wire plant.

OSWAL have got prestigeous 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 Devolpment 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 900 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 18 to 20 countries and in the coming years we will be exporting almost 35 to 40 countries.

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

ISO Certification

Quality Management System

MSA

CERTIFICATE

Registration Number: KorQ-115767

MSA Certification Co., Ltd. hereby certifies that the company

OSWAL PUMPS LIMITED

LOCATION 1: OSWAL ESTATE, NH-1, KUTAIL ROAD, P. O. KUTAIL 132 037, DISTRICT KARNAL, HARYANA, INDIA
LOCATION 2: 71/3 MILE STONE, G. T. ROAD, KARNAL 132 001, HARYANA, INDIA

for the scope of

Manufacture and Export of Submersible Pump Sets, Horizontal Openwell Submersible Pump Sets, Monoblock Pump Sets, Centrifugal Monoblock Pump Sets, Squirrel Cage Induction Motors, Copper Winding Wires, Control Units, Parts of Investment Castings of Mild Steel, Stainless Steel and Cast Iron Casting Control Units

Has established and applies a

Quality Management System

And an audit performed by MSA has verified that this management system fulfills the requirements of the following standard:

ISO 9001:2008

(Excluding Clause: 7.3 Design and Development)

Certification Issue Date:	**01 April 2011**	**Certification Expiry Date:**	**31 March 2012**
Initial Certification Date	01 April 2011		
MSA Certification Date	01 April 2011		
Re-certification Date	31 March 2014		

Robert Ree
Scheme Manager

MSA Certification Co., Ltd.
website: http://www.msa-cert.com
e-mail: msa@msa-cert.com

IAF

This certificate is the property of MSA Certification Co., Ltd. and shall be returned upon request by MSA Certification Co., Ltd. FMP2605(Rev 2)

Environmental Management System

MSA

CERTIFICATE

Registration Number: KorE-115697

MSA Certification Co., Ltd. hereby certifies that the company

OSWAL PUMPS LIMITED

LOCATION 1: OSWAL ESTATE, NH-1, KUTAIL ROAD, P. O. KUTAIL 132 037, DISTRICT KARNAL, HARYANA, INDIA
LOCATION 2: 71/3 MILE STONE, G. T. ROAD, KARNAL 132 001, HARYANA, INDIA

for the scope of

Manufacture and Export of Submersible Pump Sets, Horizontal Openwell Submersible Pump Sets, Monoblock Pump Sets, Centrifugal Monoblock Pump Sets, Squirrel Cage Induction Motors, Copper Winding Wires, Control Units, Parts of Investment Castings of Mild Steel, Stainless Steel and Cast Iron Casting Control Units

Has established and applies a

Environmental Management System

And an audit performed by MSA has verified that this management system fulfills the requirements of the following standard:

ISO 14001:2004

Certificate Issue Date	**01 April 2011**	**Certificate Expiry Date:**	**31 March 2012**
Initial Certification Date	01 April 2011		
MSA Certification Date	01 April 2011		
Re-certification Date	31 March 2014		

Robert Ree
Scheme Manager

MSA Certification Co., Ltd.
website: http://www.msa-cert.com
e-mail: msa@msa-cert.com

IAF

This certificate is the property of MSA Certification Co., Ltd. and shall be returned upon request by MSA Certification Co., Ltd. FMP2605(Rev 2)

CE Certification

MSA

Certificate

Registration Number: **IndE-110418**

MSA Certification hereby certify that the Technical Documentation for the products

Submersible Pump Sets, Openwell Horizontal Submersible Pumps, Electric Motor and Centrifugal Monoblock Pump Sets under the brand names "**OSWAL, RATTAN, SANGAM, SSI, PADAM & HIRA**"

(Further description of the products covered by this certificate are given in the Annexure attached)

Manufactured By:

Oswal Pumps Limited

Location 1: Oswal Estate, NH-1, Kutail Road, P.O Kutail-132037, Dist. Karnal, Haryana (India)
Location 2: 71/3 Milestone, G.T Road, Karnal- 132 001, Haryana (India)

found to comply. with the requirements of **LVD Directive 2006/95/EC**

The technical documentation / inspection / test results comply with the requirements of **IEC -60035-2, IEC -60034 & IEC -60035-2.** Hence, the manufacturer has issued a Declaration of Conformity according to 2006/95/EC European Directive and places the CE marking with his own responsibility as follows:

CE

Certification Issue Date: 02 April 2011 ~ **Certification Expiry Date: 01 April 2012**

Initial Certificate Date	02 April 2011
Re-certification Date	01 April 2016

Scheme Manager
website: http://www.msacertification.com
e-mail: msa@msacertification.com

MSA

Certificate

Registration Number: **IndE-110418**

Annexure to original certificate

DETAILS OF PRODUCTS COVERED UNDER SCOPE OF CERTIFICATION

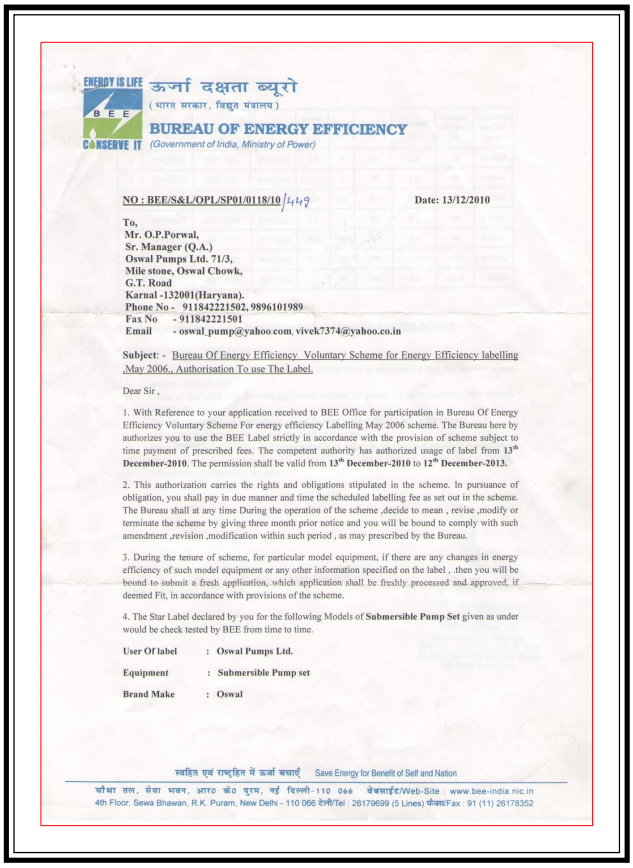
Product / Device Name	Details / Particulars
Submersible Pump Sets & Openwell Horizontal Submersible Pumps	• Oil Filled Submersible Pump Sets (Single & Three Phase 72.5 to 100 mm) • Water Filled Submersible Pump Sets (Single & Three Phase 72.5 to 300 mm)
Electric Motor	• Squirrel Cage Induction Motor (Single & Three Phase)
Centrifugal Monoblock Pump Sets	• Centrifugal Monoblock Pump Sets 1440 RPM (Single & Three Phase) • Centrifugal Monoblock Pump Sets 2880 RPM (Single & Three Phase)

Certification Issue Date: 02 April 2011 ~ **Certification Expiry Date: 01 April 2012**

Initial Certificate Date	02 April 2011
Re-certification Date	01 April 2016

Scheme Manager
website: http://www.msacertification.com
e-mail: msa@msacertification.com

BEE Certification



ऊर्जा दक्षता ब्यूरो
(भारत सरकार, विद्युत मंत्रालय)
BUREAU OF ENERGY EFFICIENCY
(Government of India, Ministry of Power)

NO : BEE/S&L/OPL/SP01/0118/10/449 Date: 13/12/2010

To,
Mr. O.P.Porwal,
Sr. Manager (Q.A.)
Oswal Pumps Ltd. 71/3,
Mile stone, Oswal Chowk,
G.T. Road
Karnal -132001(Haryana).
Phone No - 911842221502, 9896101989
Fax No - 911842221501
Email - oswal_pump@yahoo.com, vivek7374@yahoo.co.in

Subject: - Bureau Of Energy Efficiency Voluntary Scheme for Energy Efficiency labelling ,May 2006., Authorisation To use The Label.

Dear Sir ,

1. With Reference to your application received to BEE Office for participation in Bureau Of Energy Efficiency Voluntary Scheme For energy efficiency Labelling May 2006 scheme. The Bureau here by authorizes you to use the BEE Label strictly in accordance with the provision of scheme subject to time payment of prescribed fees. The competent authority has authorized usage of label from **13th December-2010**. The permission shall be valid from **13th December-2010** to **12th December-2013.**

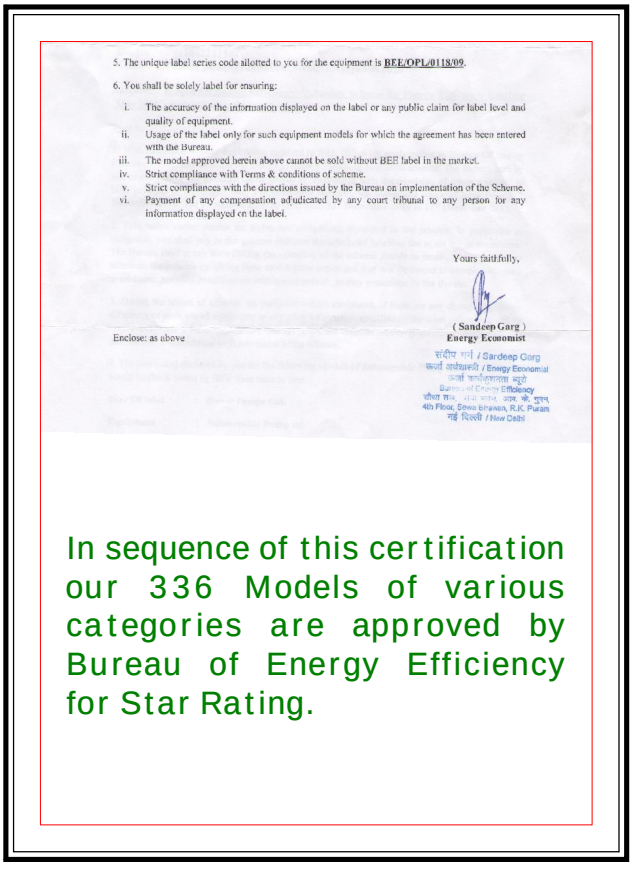
2. This authorization carries the rights and obligations stipulated in the scheme. In pursuance of obligation, you shall pay in due manner and time the scheduled labelling fee as set out in the scheme. The Bureau shall at any time During the operation of the scheme ,decide to mean , revise ,modify or terminate the scheme by giving three month prior notice and you will be bound to comply with such amendment ,revision ,modification within such period , as may prescribed by the Bureau.

3. During the tenure of scheme, for particular model equipment, if there are any changes in energy efficiency of such model equipment or any other information specified on the label , .then you will be bound to submit a fresh application, which application shall be freshly processed and approved, if deemed Fit, in accordance with provisions of the scheme.

4. The Star Label declared by you for the following Models of **Submersible Pump Set** given as under would be check tested by BEE from time to time.

User Of label : **Oswal Pumps Ltd.**
Equipment : **Submersible Pump set**
Brand Make : **Oswal**

स्वहित एवं राष्ट्रहित में ऊर्जा बचाएं Save Energy for Benefit of Self and Nation
चौथा तल, सेवा भवन, आर० के० पुरम, नई दिल्ली-110 066 वेबसाईट/Web-Site : www.bee-india.nic.in
4th Floor, Sewa Bhawan, R.K. Puram, New Delhi - 110 066 टेली/Tel : 26179699 (5 Lines) फैक्स/Fax : 91 (11) 26178352



5. The unique label series code allotted to you for the equipment is **BEE/OPL/0118/09**.

6. You shall be solely label for ensuring:

i. The accuracy of the information displayed on the label or any public claim for label level and quality of equipment.
ii. Usage of the label only for such equipment models for which the agreement has been entered with the Bureau.
iii. The model approved herein above cannot be sold without BEE label in the market.
iv. Strict compliance with Terms & conditions of scheme.
v. Strict compliances with the directions issued by the Bureau on implementation of the Scheme.
vi. Payment of any compensation adjudicated by any court tribunal to any person for any information displayed on the label.

Yours faithfully,

(Sandeep Garg)
Energy Economist

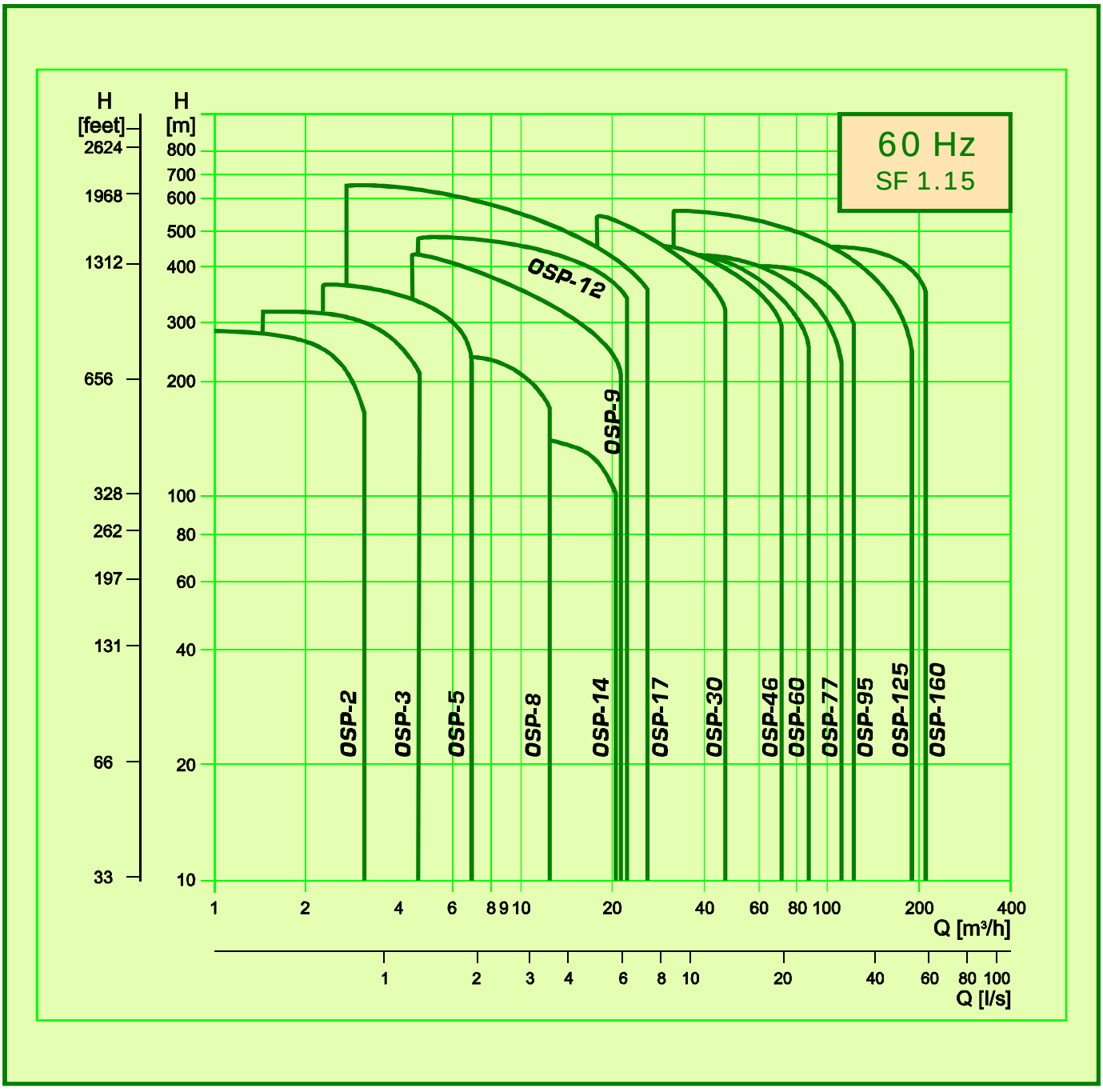
Enclose: as above

संदीप गर्ग / Sandeep Garg
ऊर्जा अर्थशास्त्री / Energy Economist
Bureau of Energy Efficiency
चौथा तल, सेवा भवन, आर. के. पुरम,
4th Floor, Sewa Bhawan, R.K. Puram
नई दिल्ली / New Delhi

In sequence of this certification our 336 Models of various categories are approved by Bureau of Energy Efficiency for Star Rating.

Contents

Performance Range



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 Submesible Pumpsets of moduler 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 longivity, pump shaft using Duplex steel forhigh wear resistance.

OSWAL WATER FILLED AND WATER COOLED SUBMERSIBLE MOTORS confirm to IS : 9283.& Pump set confirm to IS : 8034.

General Data

* Duty Dish : 40 LPM to 3240 LPM.
* Pumped liquid : Clean water free from solid, Chemically Natural & Close the characteristics of water.
* Max. liquid temperature : 45°c.
* Max. Quantity of sand : 50gm/m³.
* 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 2	OSP 3	OSP 5	OSP 8	OSP 14	OSP 9	OSP 12	OSP 17	OSP 30	OSP 46	OSP 60	OSP 77	OSP 95	OSP 125	OSP 160
Steel : S.S.-304		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Connection: Rp (Inches)	BSP Thread	1¼"	1½"	1½"	2"	2"	2"	2"	2½"	3"	4"	4"	5"	5"	6"	6"
	NPT Thread	1¼"	1½"	1½"	2"	2"	2"	2"	3"	3"	4"	4"	5"	5"	6"	6"

Pumped Liquids

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

Operating Conditions

* Flow Range (min. to max.) -2.4-216 M^3/h
* Head, H : Maximum 635 m.

Maximum Liquid Temperature

Motor	Installation		
	Flow velocity-past motor	Vertical	Horizontal
6"	0.15 m/s	40°c	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 2.4 to 200 m^3/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^3/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

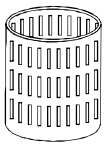
* We offers a complete range of pumps and motors with as a standard are made completely as stainless steel - 304. This provides for good wear resistance and a reduced risk of corrosion when pumping ordinary cold water with a minor content of chloride.

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.

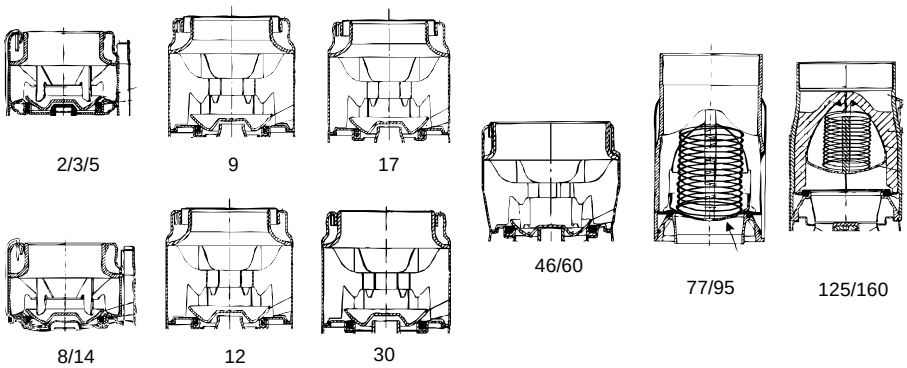


Inlet Strainer

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

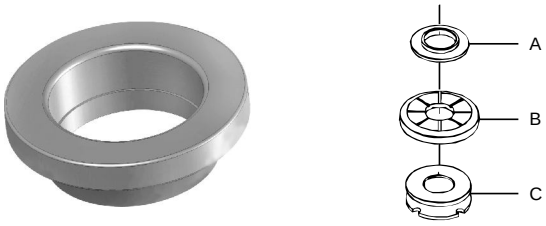
Non-return Valve

* 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 min^{-1}
* The measurements were made with airless water at a temperature of 20°c. The curves apply to a kinematic viscosity of 1mm^2/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 resistence. Which significantly reduces energy consumption . OSWAL can also help you by providing during selection and installation of the pump.

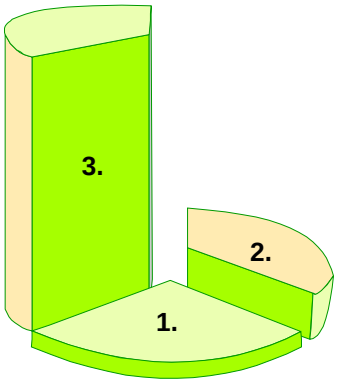
Energy Efficient Pumps :-

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

Let us the 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^3/ hr.)	60	60
Cost (in US doller)	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 (for 8hrs. operation)	365.9 KWH	272 KWH
KWH / Year	133553 KWH	99280 KWH
KWH / 10Year	1335530 KWH	992800 KWH
Energy Cost (in US doller)	166941	124100
EnergyCost (in INRs.)	6677650	4964000

Saving in energy cost alone will be US doller 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 then 4 month).



1. Initial Cost 5%
2. Maintenance Cost 6%
3. Energy Cost 89%

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,
- Mixed flow Model : OSP-8 , OSP-14

Application

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

General Data

- Head rang up to 300 meters
- Flow range up to 15 M^3/ hr.

Operating Condition

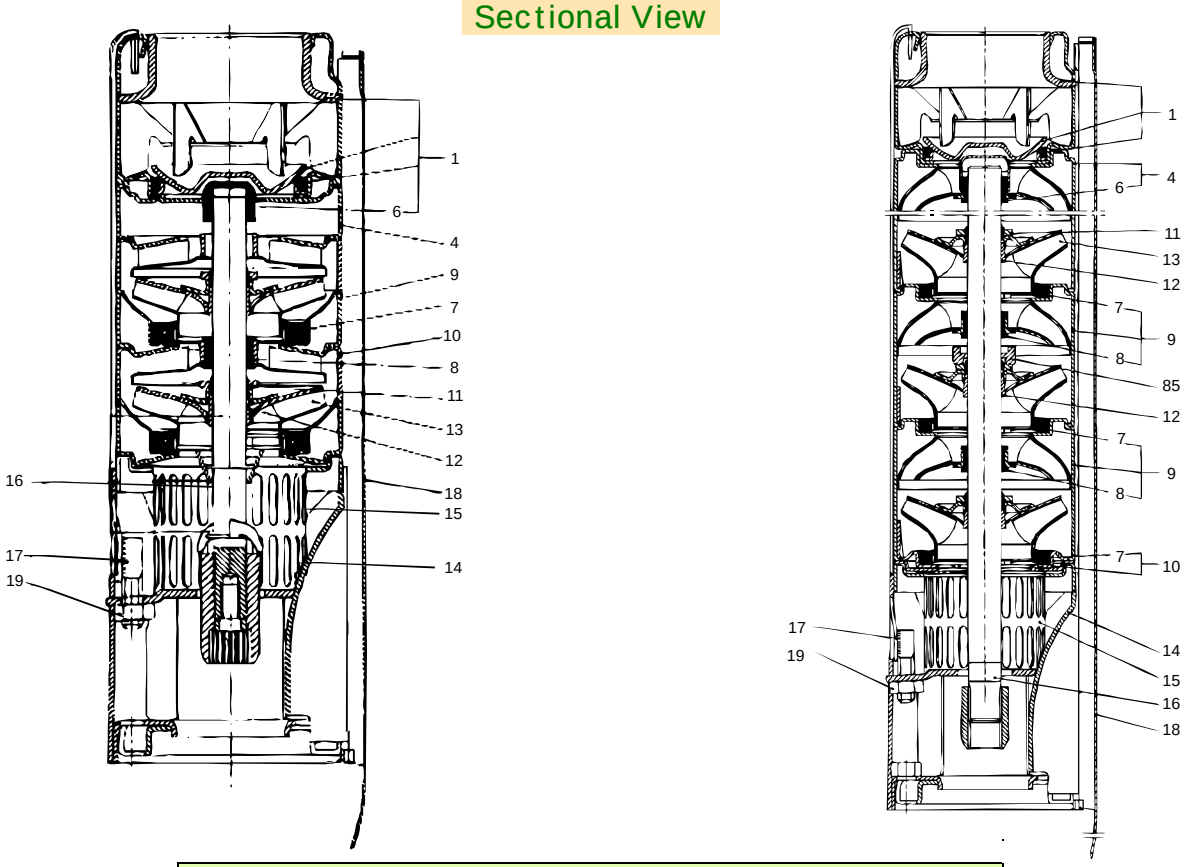
- Maximum liquid temperature : 45°c
- Maximum quantity of sand 50 gm / m^3
- Minimum suction head required : 1.5 meter.
- Max. start per hour 30 at regular intervals.
- Direction of rotation : clockwise as seen from the pump coupling side.

Special Construction On Request

- Also available in NPT connection.

Material of Construction

Sectional View



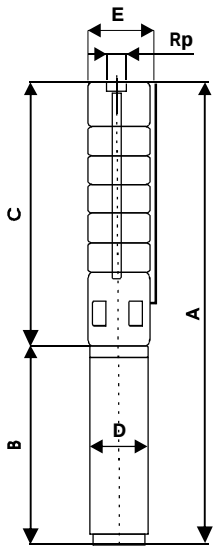
MATERIAL SPECIFICATION OF OSP-2, OSP-3, OSP-5, OSP-8, OSP-14		
S.NO.	COMPONENTS	MATERIAL GRADE
1	Valve casing	SS-304
4	Top diffuser cup	SS-304
6	Top bearing bush	NBR
7	Neckring	NBR + SS-304
8	Stage bearing bush	NBR
9	Diffuser cup	SS-304
10	Ist stage cup	SS-304
11	Split cone nut	SS-304
12	Split cone	SS-304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

Technical Data

OSP - 2

PUMP MODEL	STAGE	MOTOR		PUMP			Motor
		Joining Motor	Power (KW)	Length		Weight	OD
				C	E*	Kg	D
OSP-2 (E)	5	V-4	0.37	258	98	3.0	97.5
OSP-2 (E)	6	V-4	0.55	279	98	3.2	97.5
OSP-2 (E)	9	V-4	0.55	342	98	3.9	97.5
OSP-2 (E)	11	V-4	0.75	384	98	4.4	97.5
OSP-2 (E)	12	V-4	0.75	405	98	4.6	97.5
OSP-2 (E)	15	V-4	1.1	468	98	5.3	97.5
OSP-2 (E)	17	V-4	1.1	510	98	5.8	97.5
OSP-2 (E)	21	V-4	1.5	594	98	6.7	97.5
OSP-2 (E)	23	V-4	1.5	636	98	7.1	97.5
OSP-2 (E)	27	V-4	2.2	720	98	8.1	97.5
OSP-2 (E)	34	V-4	2.2	867	98	9.7	97.5

FIGURE



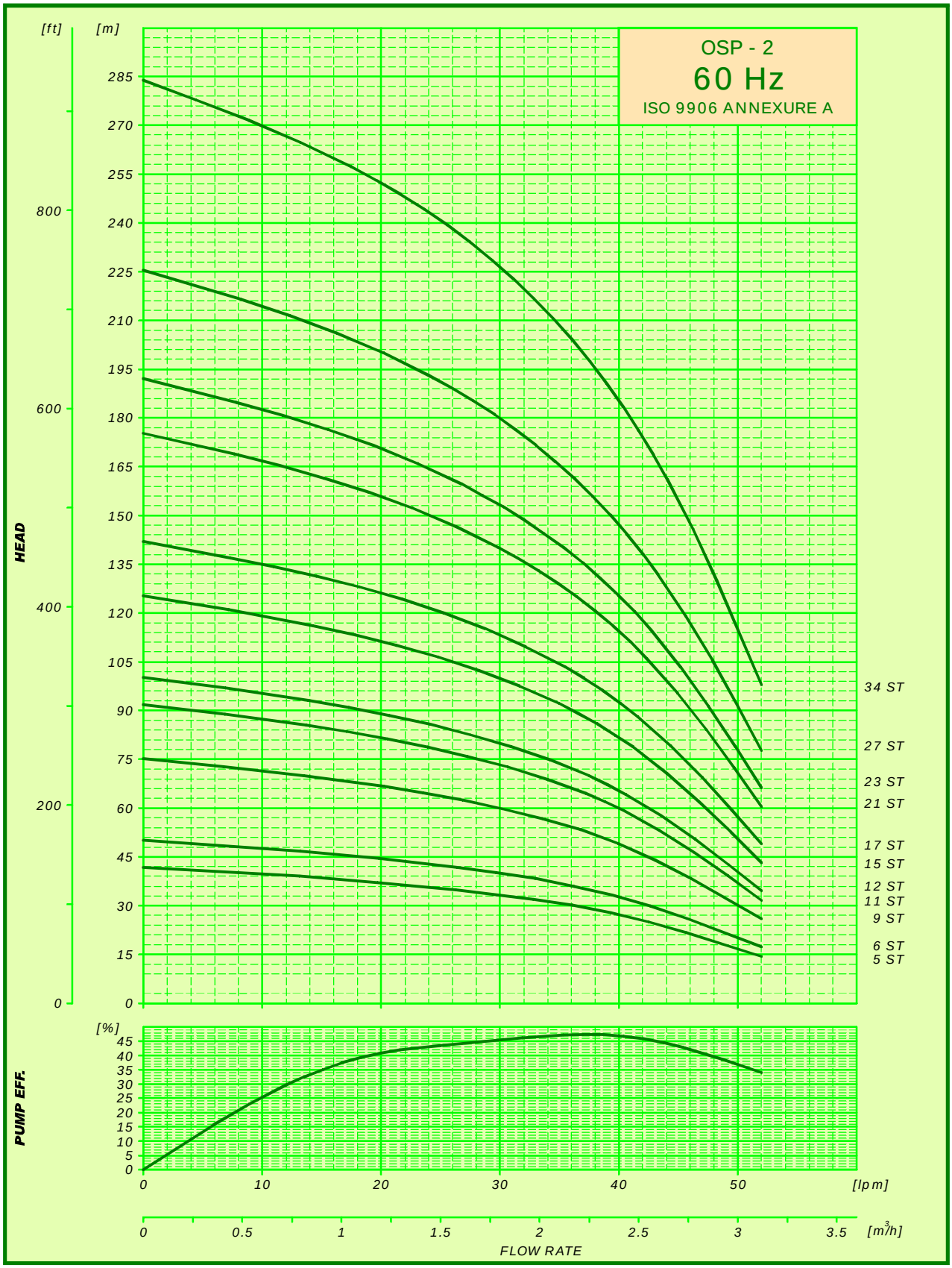
E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE

Performance Table

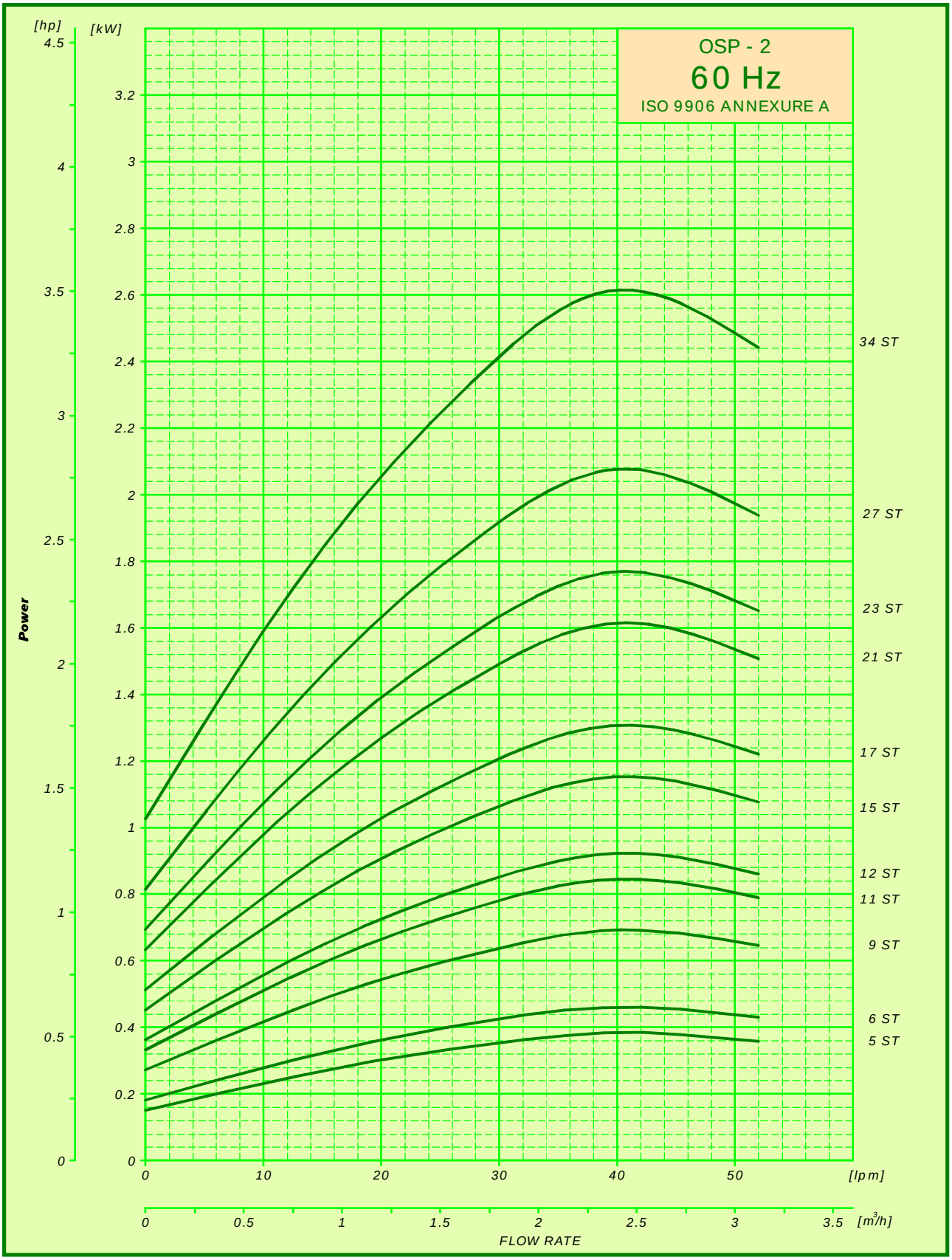
OSP - 2

MODEL	K.W.	H.P.	Stage	Motor joining	Outlet Size in inches	Discharge Q					
						M^3/hr.	**0**	0.6	1.2	1.7	**2.4**	3
						LPM	0	10	20	28	**40**	50
OSP - 2 (E)	0.37	0.5	5	V-4	1¼"	HEAD IN METERS	42	40	37	34	**27**	17
OSP - 2 (E)	0.55	0.75	6	V-4	1¼"		50	47	45	41	**33**	20
OSP - 2 (E)	0.55	0.75	9	V-4	1¼"		75	71	67	62	**49**	30
OSP - 2 (E)	0.75	1	11	V-4	1¼"		92	87	82	75	**60**	37
OSP - 2 (E)	0.75	1	12	V-4	1¼"		100	95	89	82	**65**	40
OSP - 2 (E)	1.1	1.5	15	V-4	1¼"		125	119	111	103	**82**	50
OSP - 2 (E)	1.1	1.5	17	V-4	1¼"		142	134	126	116	**93**	57
OSP - 2 (E)	1.5	2	21	V-4	1¼"		175	166	156	144	**114**	70
OSP - 2 (E)	1.5	2	23	V-4	1¼"		192	182	171	157	**125**	77
OSP - 2 (E)	2.2	3	27	V-4	1¼"		225	213	200	185	**147**	90
OSP - 2 (E)	2.2	3	34	V-4	1¼"		284	269	252	233	**185**	113

Performance Curves



Power Curves

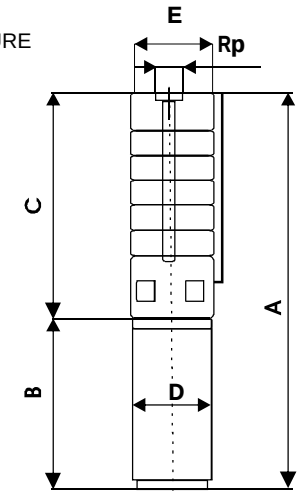


Technical Data

OSP - 3

PUMP MODEL	STAGE	MOTOR		PUMP			Motor
		Joining Motor	Power (KW)	Length C	E*	Weight Kg	OD D
OSP-3 (E)	4	V-4	0.37	237	98	2.8	97.5
OSP-3 (E)	5	V-4	0.55	258	98	3.0	97.5
OSP-3 (E)	6	V-4	0.55	279	98	3.2	97.5
OSP-3 (E)	8	V-4	0.75	321	98	3.7	97.5
OSP-3 (E)	10	V-4	1.1	363	98	4.2	97.5
OSP-3 (E)	12	V-4	1.1	405	98	4.6	97.5
OSP-3 (E)	14	V-4	1.5	447	98	5.1	97.5
OSP-3 (E)	16	V-4	1.5	489	98	5.5	97.5
OSP-3 (E)	18	V-4	2.2	531	98	6.0	97.5
OSP-3 (E)	24	V-4	2.2	657	98	7.4	97.5
OSP-3 (E)	32	V-4	3.0	825	98	9.2	97.5
OSP-3 (E)	38	V-4	4.0	951	98	10.6	97.5

FIGURE



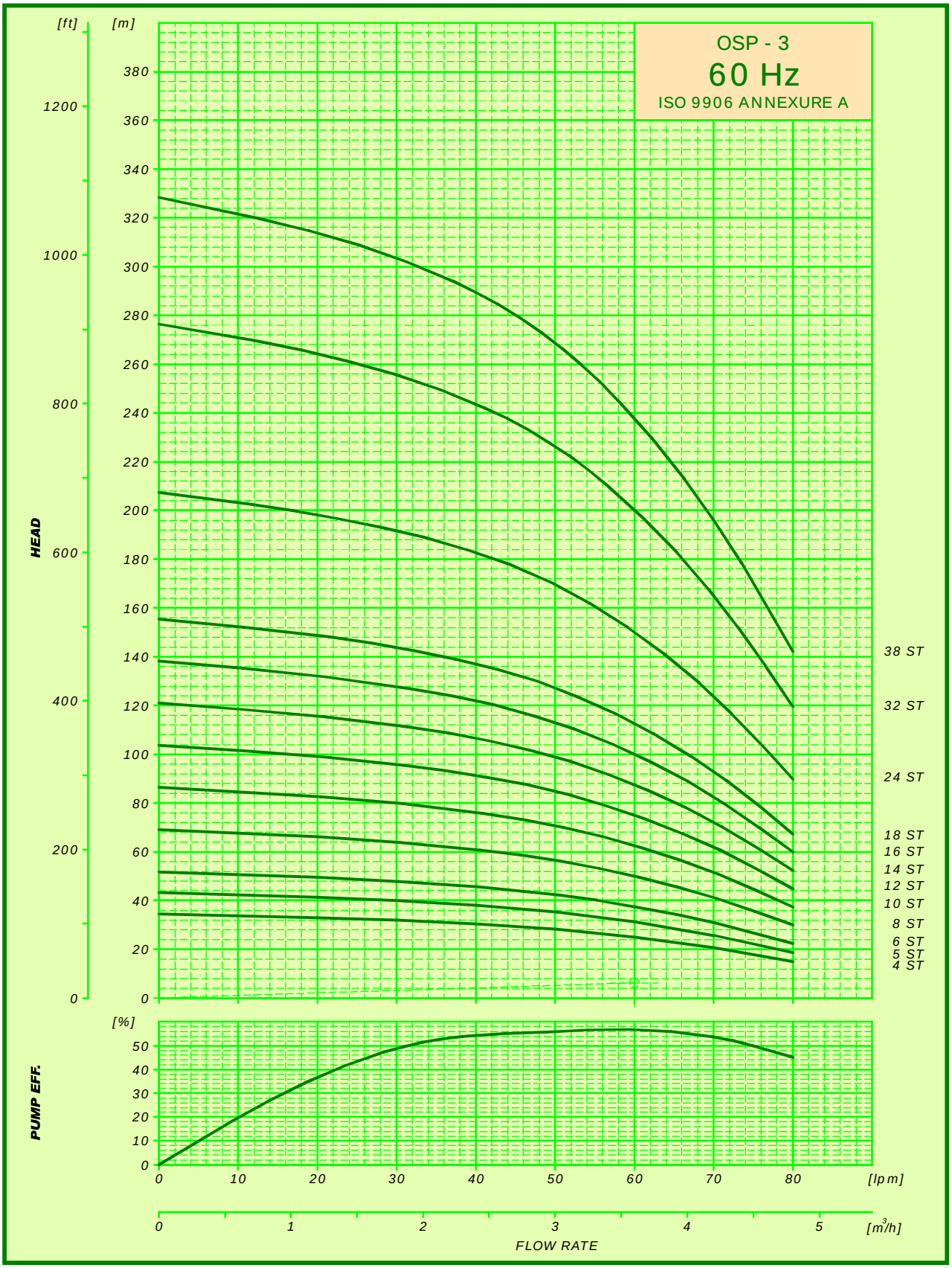
E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE

Performance Table

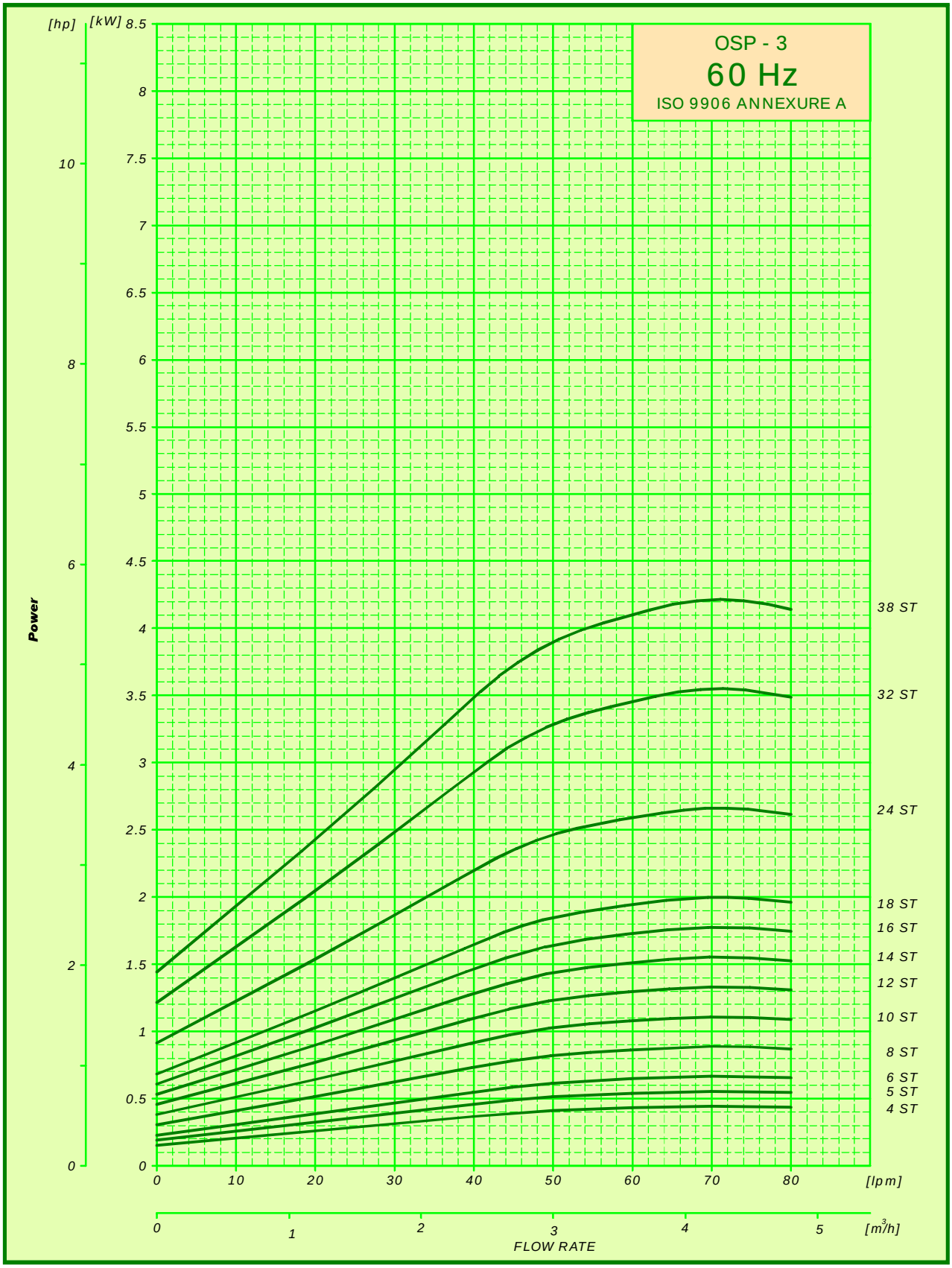
OSP - 3

MODEL	K.W.	H.P.	Stage	Motor joining	Outlet Size in Inches	Discharge Q						
						M^3/hr.	0	2.2	2.9	**3.6**	4.3	4.8
						LPM	0	36	48	**60**	72	80
OSP - 3 (E)	0.37	0.5	4	V-4	1½"	HEAD IN METERS	35	31	29	**25**	20	15
OSP - 3 (E)	0.55	0.75	5	V-4	1½"		43	39	36	**31**	25	19
OSP - 3 (E)	0.55	0.75	6	V-4	1½"		52	47	43	**38**	29	22
OSP - 3 (E)	0.75	1	8	V-4	1½"		69	62	58	**50**	39	30
OSP - 3 (E)	1.1	1.5	10	V-4	1½"		86	78	72	**63**	49	37
OSP - 3 (E)	1.1	1.5	12	V-4	1½"		104	93	86	**75**	59	45
OSP - 3 (E)	1.5	2	14	V-4	1½"		121	109	101	**88**	69	52
OSP - 3 (E)	1.5	2	16	V-4	1½"		138	124	115	**100**	78	60
OSP - 3 (E)	2.2	3	18	V-4	1½"		156	140	130	**113**	88	67
OSP - 3 (E)	2.2	3	24	V-4	1½"		207	187	173	**150**	118	90
OSP - 3 (E)	3.0	4	32	V-4	1½"		276	249	230	**200**	157	120
OSP - 3 (E)	4.0	5.5	38	V-4	1½"		328	296	274	**238**	186	142

Performance Curves



Power Curves

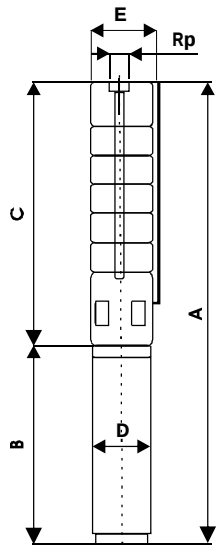


Technical Data

OSP - 5

PUMP MODEL	STAGE	MOTOR		PUMP			Motor
		Joining Motor	Power (KW)	Length		Weight	OD
				C	E*	Kg	D
OSP- 5 (E)	3	V-4	0.55	216	98	2.5	97.5
OSP- 5 (E)	5	V-4	0.75	258	98	3.0	97.5
OSP- 5 (E)	7	V-4	1.1	300	98	3.5	97.5
OSP- 5 (E)	8	V-4	1.1	321	98	3.7	97.5
OSP- 5 (E)	9	V-4	1.5	342	98	3.9	97.5
OSP- 5 (E)	11	V-4	1.5	384	98	4.4	97.5
OSP- 5 (E)	15	V-4	2.2	468	98	5.3	97.5
OSP- 5 (E)	21	V-4	3.0	594	98	6.7	97.5
OSP- 5 (E)	26	V-4	4.0	699	98	7.8	97.5
OSP- 5 (E)	39	V-4	5.5	972	98	10.8	97.5

FIGURE



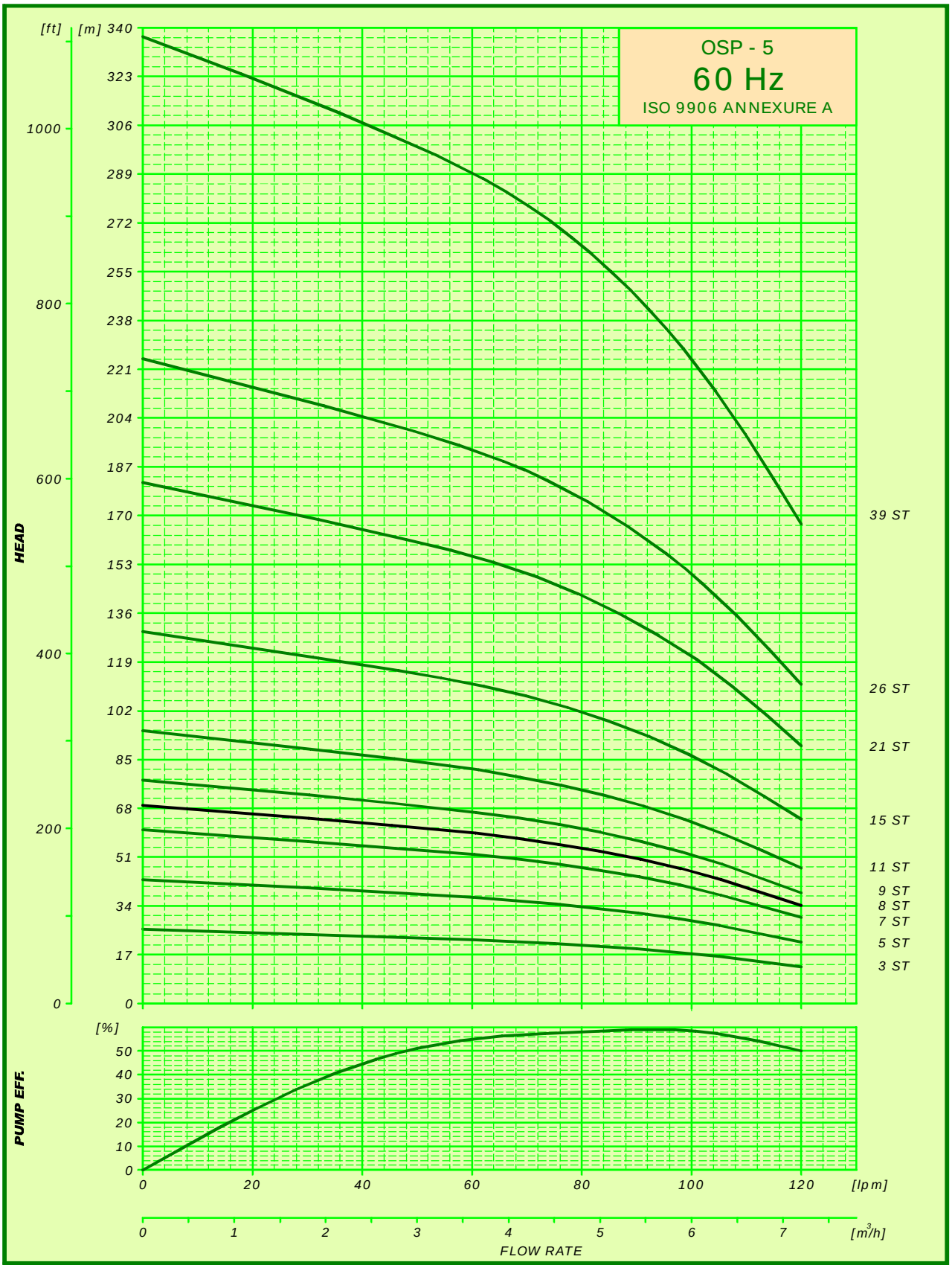
E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE

Performance Table

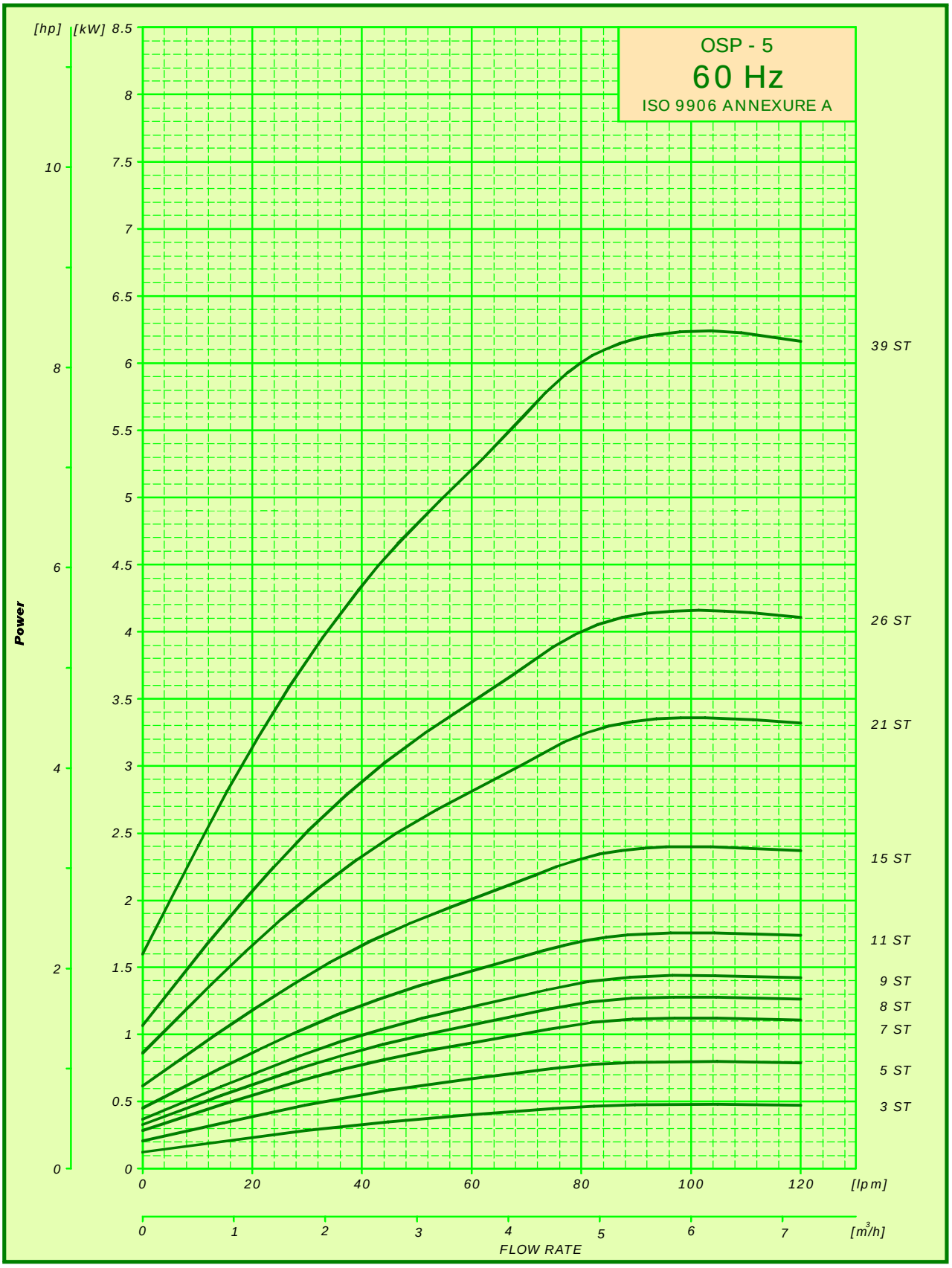
OSP - 5

MODEL	K.W.	H.P.	Stage	Motor joining	Outlet Size in inches	Discharge Q					
						M^3/hr.	0	2.9	4.1	**4.8**	**6**	7.2
						LPM	0	48	68	**80**	**100**	120
OSP - 5 (E)	0.55	0.75	3	V-4	1½"	HEAD IN METERS	26	23	22	**20**	**17**	13
OSP - 5 (E)	0.75	1	5	V-4	1½"		43	39	36	**34**	**29**	21
OSP - 5 (E)	1.1	1.5	7	V-4	1½"		60	54	50	**47**	**40**	30
OSP - 5 (E)	1.1	1.5	8	V-4	1½"		69	62	58	**54**	**46**	34
OSP - 5 (E)	1.5	2	9	V-4	1½"		78	69	65	**61**	**52**	39
OSP - 5 (E)	1.5	2	11	V-4	1½"		95	85	79	**74**	**63**	47
OSP - 5 (E)	2.2	3	15	V-4	1½"		130	116	108	**102**	**86**	64
OSP - 5 (E)	3.0	4	21	V-4	1½"		181	162	151	**142**	**121**	90
OSP - 5 (E)	4.0	5.5	26	V-4	1½"		225	200	187	**176**	**150**	111
OSP - 5 (E)	5.5	7.5	39	V-4	1½"		337	300	281	**264**	**225**	167

Performance Curves



Power Curves

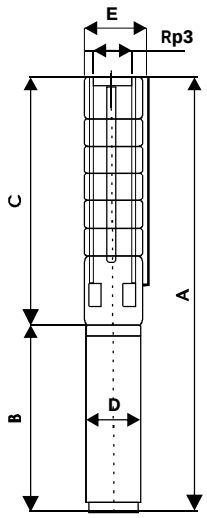


Technical Data

OSP - 8

PUMP MODEL	STAGE	MOTOR		PUMP			Motor
		Joining Motor	Power (KW)	Length C	E*	Weight Kg	OD D
OSP- 8 (E)	3	V-4	0.75	333	98	3.4	97.5
OSP- 8 (E)	5	V-4	1.1	417	98	4.4	97.5
OSP- 8 (E)	7	V-4	1.5	501	98	5.4	97.5
OSP- 8 (E)	9	V-4	2.2	585	98	6.4	97.5
OSP- 8 (E)	12	V-4	3.0	711	98	7.9	97.5
OSP- 8 (E)	15	V-4	4.0	837	98	9.4	97.5
OSP- 8 (E)	18	V-4	5.5	963	98	10.9	97.5
OSP- 8 (E)	21	V-4	5.5	1089	98	12.4	97.5
OSP- 8 (E)	25	V-4	5.5	1257	98	14.4	97.5
OSP- 8 (E)	30	**V- 6**	7.5	1467	98	16.9	144

FIGURE



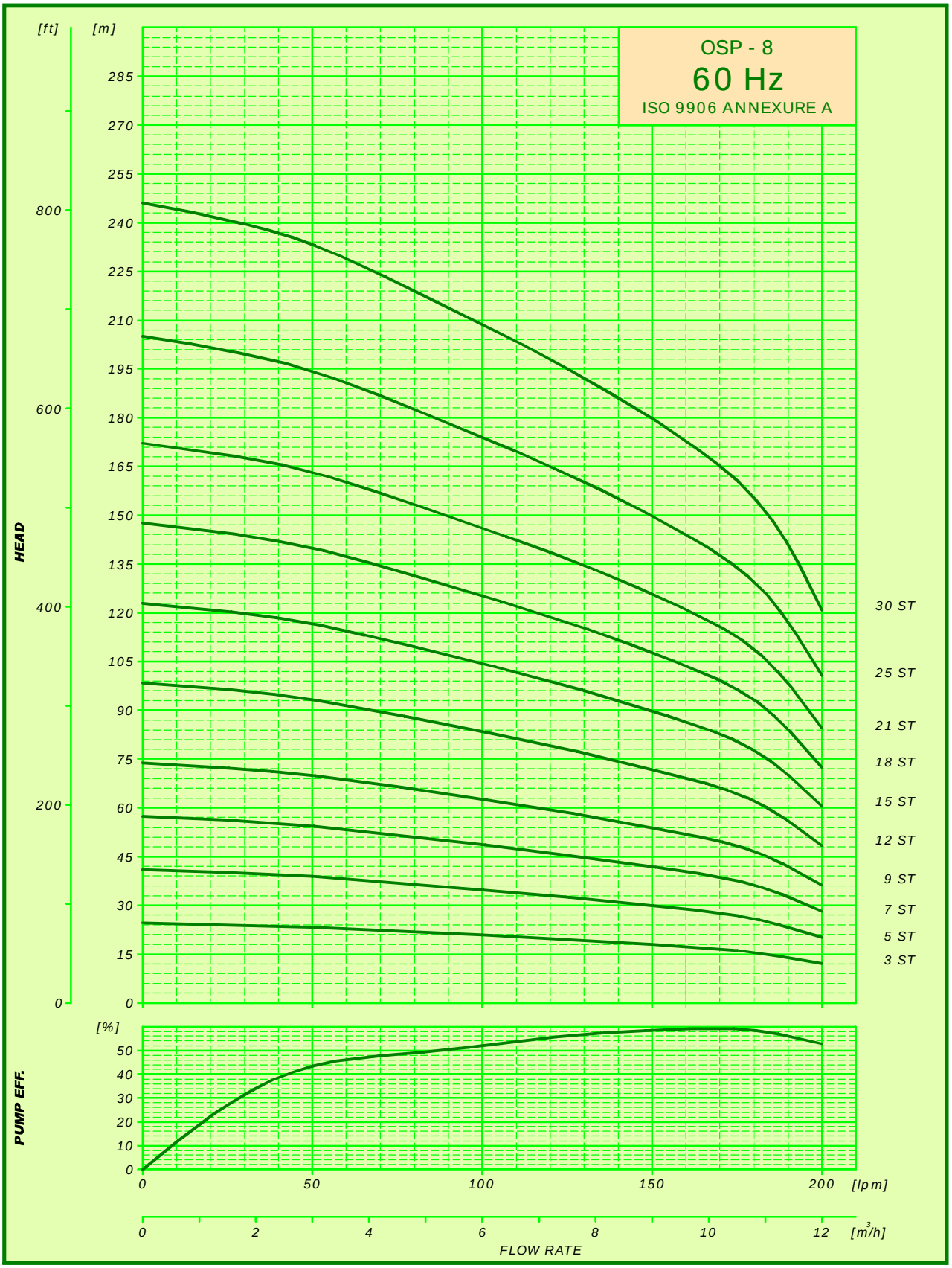
E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE

Performance Table

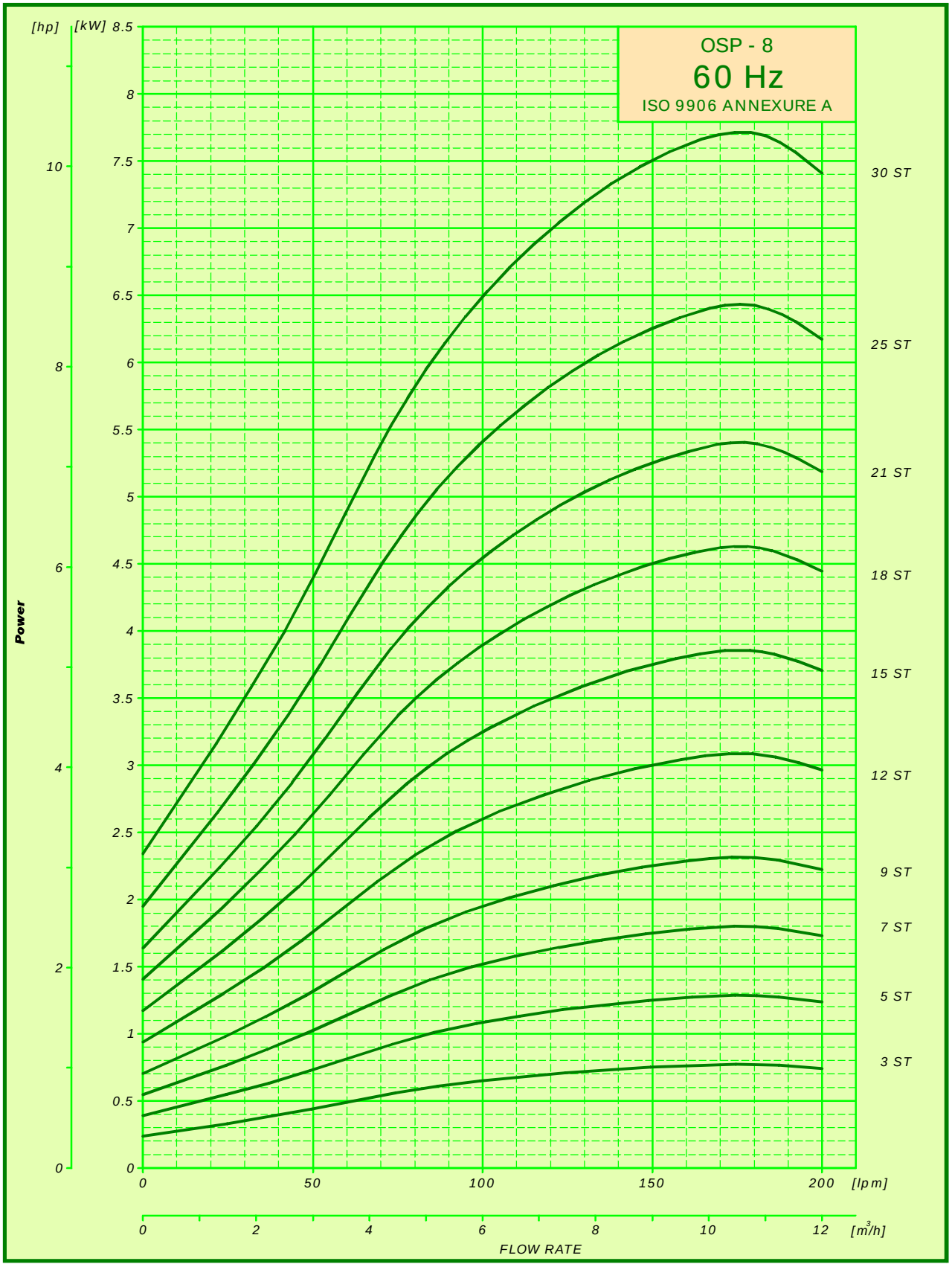
OSP - 8

MODEL	K.W.	H.P.	Stage	Motor joining	Outlet Size in inches	Discharge Q						
						M^3/hr.	0	4.8	7.2	**9.6**	10.8	12
						LPM	0	80	120	**160**	180	200
OSP - 8 (E)	0.75	1	3	V-4	2"	HEAD IN METERS	25	22	20	**17**	16	12
OSP - 8 (E)	1.1	1.5	5	V-4	2"		41	37	33	**29**	26	20
OSP - 8 (E)	1.5	2	7	V-4	2"		57	51	46	**40**	36	28
OSP - 8 (E)	2.2	3	9	V-4	2"		74	66	59	**52**	47	36
OSP - 8 (E)	3.0	4	12	V-4	2"		98	88	79	**69**	62	48
OSP - 8 (E)	4.0	5.5	15	V-4	2"		123	110	99	**86**	78	60
OSP - 8 (E)	5.5	7.5	18	V-4	2"		148	131	119	**104**	93	73
OSP - 8 (E)	5.5	7.5	21	V-4	2"		172	153	139	**121**	109	85
OSP - 8 (E)	5.5	7.5	25	V-4	2"		205	183	165	**144**	130	101
OSP - 8 (E) (6X4)	7.5	10	30	**V-6**	2"		246	219	198	**173**	155	121

Performance Curves



Power Curves



Technical Data

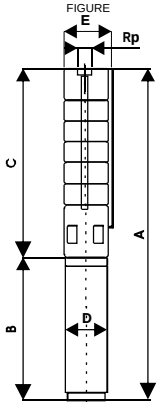
OSP - 14

PUMP MODEL	STAGE	MOTOR		PUMP			Motor
		Joining Motor	Power (KW)	Length C	E*	Weight Kg	OD D
OSP- 14 (E)	3	V-4	1.5	380	98	4.1	97.5
OSP- 14 (E)	5	V-4	2.2	510	98	5.6	97.5
OSP- 14 (E)	8	V-4	4.0	705	98	7.9	97.5
OSP- 14 (E)	12	V-4	5.5	965	98	10.9	97.5
OSP- 14 (E)	16	V-6	7.5	1225	98	13.9	144

E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE

*

FIGURE

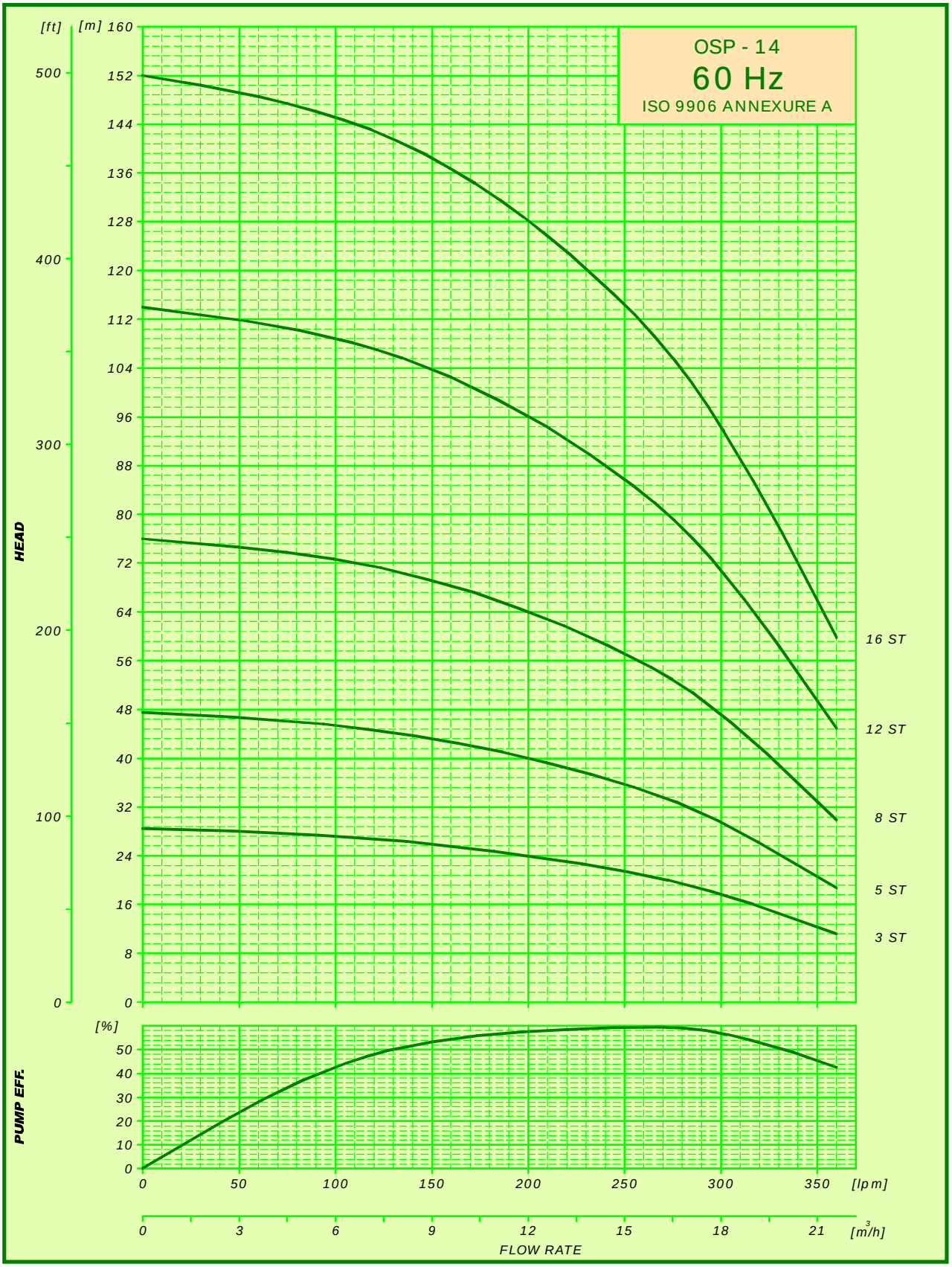


Performance Table

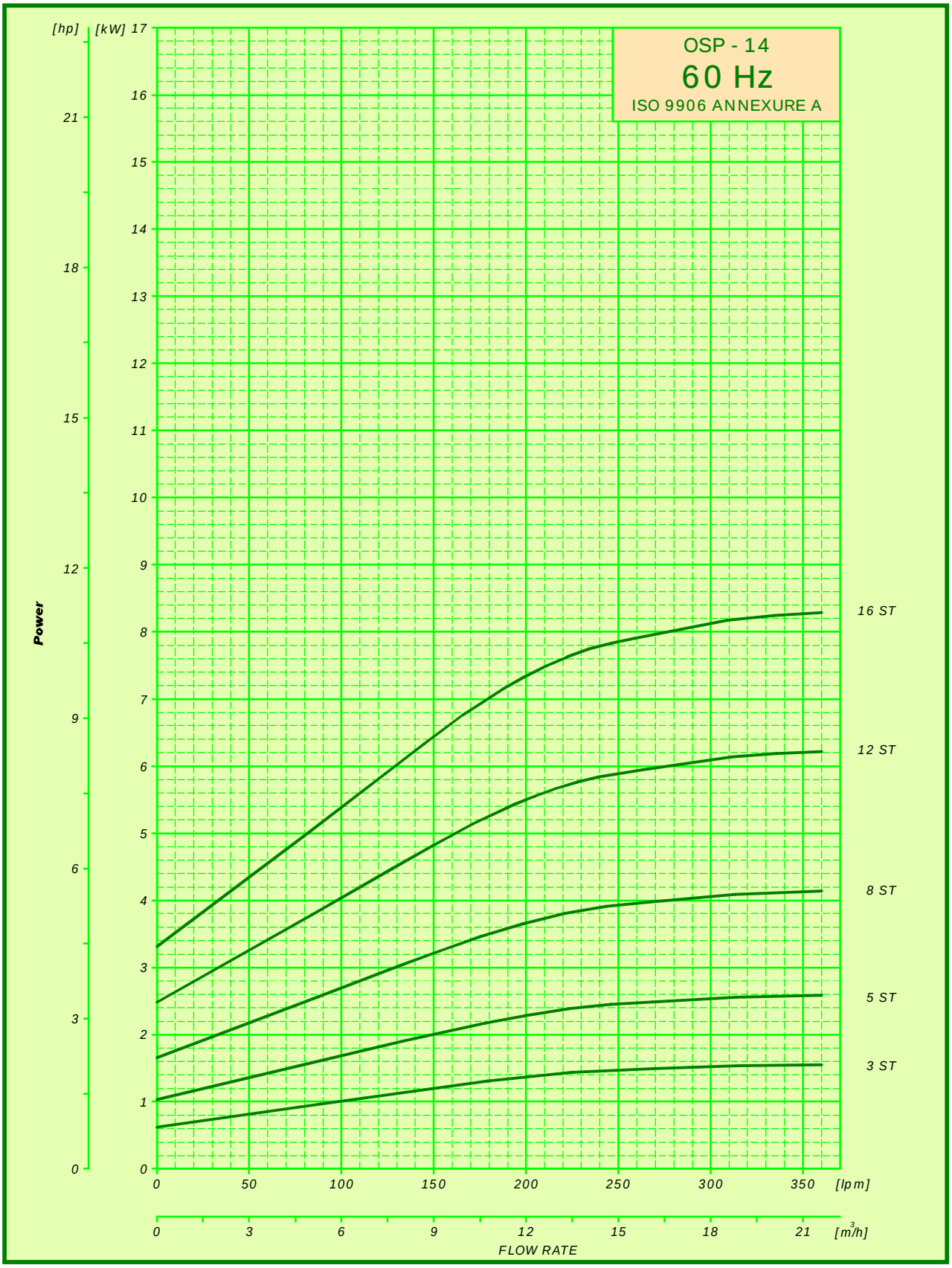
OSP - 14

MODEL	K.W.	H.P.	Stage	Motor joining	Outlet Size in inches	Discharge Q						
						M^3/hr.	**0**	7.2	14.4	**16.8**	18	21.6
						LPM	0	120	240	**280**	300	360
OSP - 14 (E)	1.5	2	3	V-4	2"	Head in Meters	29	27	22	**19**	18	11
OSP - 14 (E)	2.2	3	5	V-4	2"		48	45	37	**32**	30	19
OSP - 14 (E)	4.0	5.5	8	V-4	2"		76	71	59	**52**	47	30
OSP - 14 (E)	5.5	7.5	12	V-4	2"		114	107	88	**78**	71	45
OSP-14 (E) (6X4)	7.5	10	16	V-6	2"		152	143	117	**104**	94	60

Performance Curves



Power Curves



OSP-9, OSP-12, OSP-17, OSP-30, OSP-46 & 0SP-60

6''

Submersible Pump

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.

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-46,OSP-60

Application

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

General Data

- Head range up to 600 meters
- Flow range up to 72 M^3

Operating Condition

- Maximum liquid temperature : 45ºc
- Maximum quantity of sand 50 gm / m^3
- 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.

Special Construction On Request

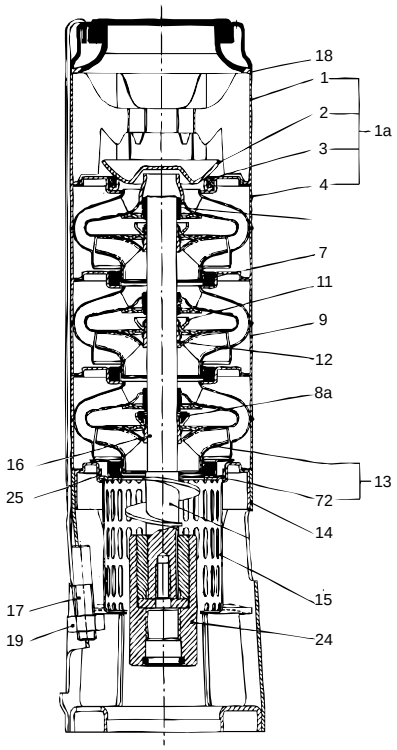
Also available in NPT connection

Material of Construction

MATERIAL SPECIFICATION OSP 9

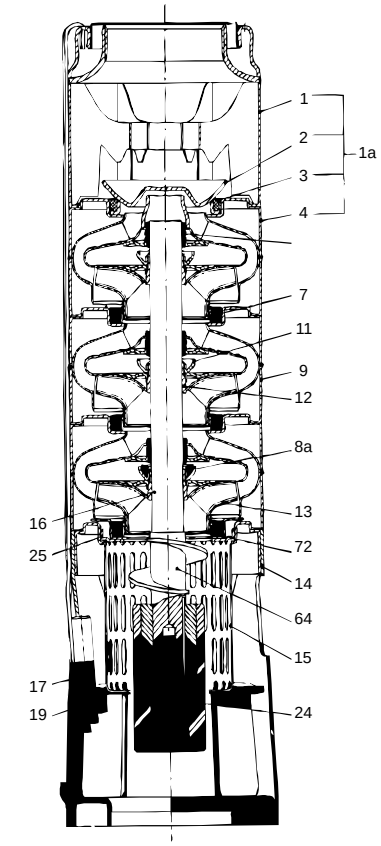
S.No.	Components	Material	Standard
1	Valve casing	Stainless steel	304
la	Discharge chamber complete	Stainless steel	304
2	Valve cup	Stainless steel	304
3	Valve seat	Stainless steel	
4	Top intermediate chamber	Stainless steel	304
7	Neck ring	NBR/PPS	
9	Spacing washer	Cabron /graphite Hy 22 in PTFE mass	
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
19	Nut	Stainless steel	304
72	Wear ring	Stainless steel	304

Sectional View



MATERIAL SPECIFICATION OSP 12

S.No.	Components	Material	Standard
1	Valve casing	Stainless steel	304
la	Discharge chamber complete	Stainless steel	304
2	Valve cup	Stainless steel	304
3	Valve seat	Stainless steel	304
4	Top intermediate chamber	Stainless steel	304
7	Neck ring	NBR/PPS	
8a	Spacing washer	Cabron /graphite Hy 22 in PTFE mass	
9	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
72	Wear ring	Stainless steel	304

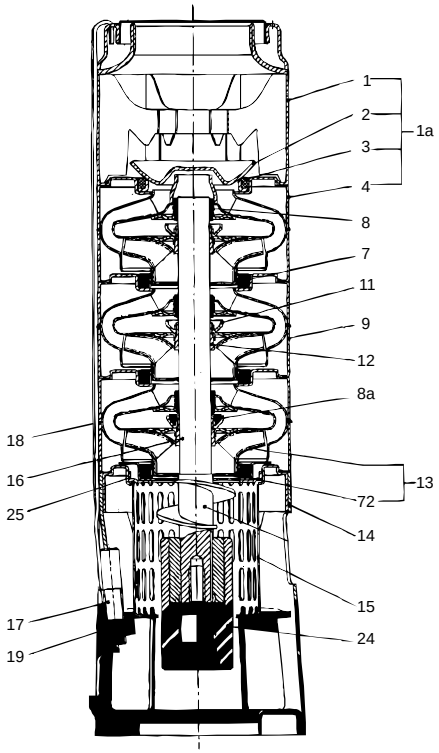


Material of Construction

MATERIAL SPECIFICATION OSP -17

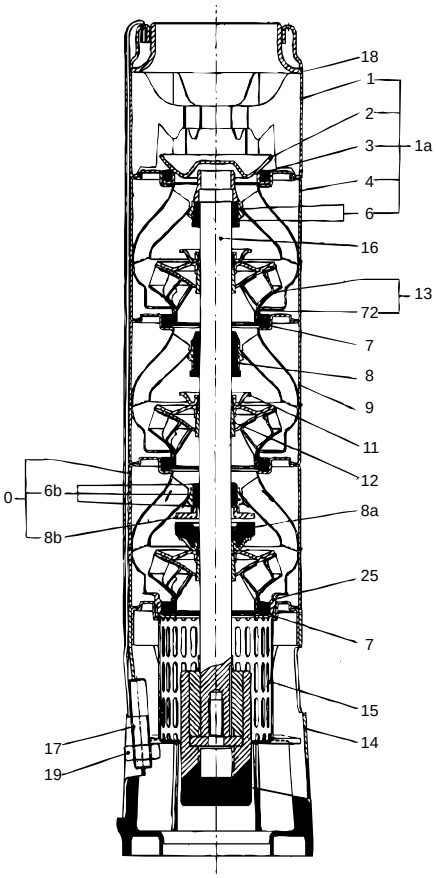
S.No.	Components	Material	Standard
1	Valve casing	Stainless steel	304
la	Discharge chamber complete	Stainless steel	304
2	Valve cup	Stainless steel	304
3	Valve seat	Stainless steel + NBR	
4	Top intermediate chamber	Stainless steel	304
7	Neck ring	NBR/Stainless steel	
8a	Spacing washer	Cabron /graphite Hy 22 in PTFE mass	
9	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
72	Wear ring	Stainless steel	304

Sectional View



MATERIAL SPECIFICATION OSP - 30

S.No.	Components	Material	Standard
1	Valve casing	Stainless steel	304
la	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
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
25	Neck ring retainer	Stainless steel	304
72	Wear ring	Stainless steel	304

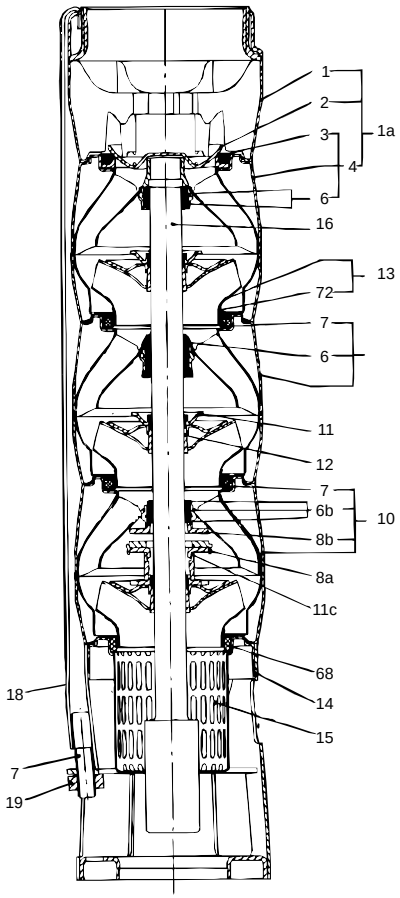


Material of Construction

MATERIAL SPECIFICATION - OSP -46/60

S.No.	Components	Material	Standard
1	Valve casing	Stainless steel	304
la	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	
8a	Washer for stop ring	Cabron/graphite hy 22 in ptfe mass	
8b	Stop ring	Stainless steel	304
9	Inter meditate Chamber	Stainless steel	304
10	Bottom chamber complete	Stainless steel	304
11	Split cone nut	Stainless steel	304
l1c	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
18	Cable guard	Stainless steel	304
19	Nut	Stainless steel	304
68	Bottom neck ring	NBR/Stainless steel	304
72	Wear ring	Stainless steel	304

Sectional View



Performance Table

OSP- 9

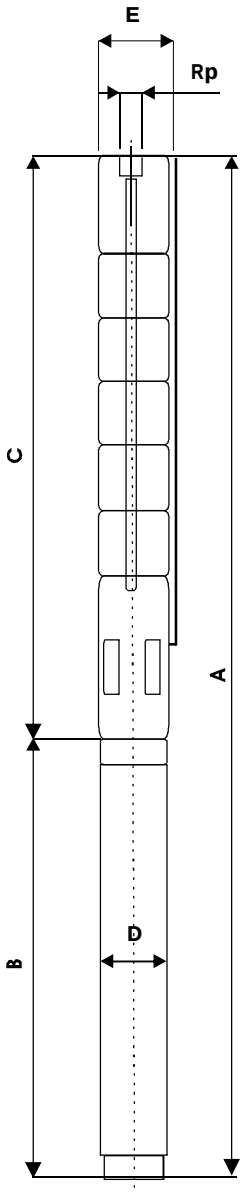
MODEL	K.W.	H.P.	Stage	Motor joining	Out let Size in inches	Discharge Q						
						M^3/hr.	0	7.2	**10.8**	14.4	18	21.6
						LPM	0	120	**180**	240	300	360
OSP-9(E) (4 X 6)	0.75	1	1	V-4	2"	HEAD IN METERS	15	14	**13**	11	9	8
OSP-9(E) (4 X 6)	1.50	2	2	V-4	2"		30	28	**25**	22	18	15
OSP-9(E) (4 X 6)	2.20	3	3	V-4	2"		45	42	**38**	32	27	23
OSP-9(E) (4 X 6)	3.0	4	4	V-4	2"		60	56	**51**	43	36	31
OSP-9(E) (4 X 6)	3.0	4	5	V-4	2"		76	71	**63**	54	45	38
OSP-9(E) (4 X 6)	3.7	5	6	V-4	2"		91	85	**76**	65	54	46
OSP-9(E) (4 X 6)	4.5	6	7	V-4	2"		106	99	**89**	76	63	54
OSP-9(E) (4 X 6)	5.5	7.5	8	V-4	2"		121	113	**101**	86	71	62
OSP-9(E) (4 X 6)	5.5	7.5	9	V-4	2"		136	127	**114**	97	80	69
OSP-9(E) (4 X 6)	7.5	10	10	V-4	2"		151	141	**127**	108	89	77
OSP-9(E) (4 X 6)	7.5	10	11	V-6	2"		166	155	**139**	119	98	85
OSP - 9 (E)	5.5	7.5	8	V-4	2"		121	113	**101**	86	71	62
OSP - 9 (E)	5.5	7.5	9	V-4	2"		136	127	**114**	97	80	69
OSP - 9 (E)	7.5	10	10	V-4	2"		151	141	**127**	108	89	77
OSP - 9 (E)	7.5	10	11	V-6	2"		166	155	**139**	119	98	85
OSP - 9 (E)	9.3	12.5	12	V-6	2"		181	169	**152**	130	107	92
OSP - 9 (E)	9.3	12.5	13	V-6	2"		197	183	**165**	140	116	100
OSP - 9 (E)	9.3	12.5	14	V-6	2"		212	198	**177**	151	125	108
OSP - 9 (E)	11.0	15	15	V-6	2"		227	212	**190**	162	134	115
OSP - 9 (E)	11.0	15	16	V-6	2"		242	226	**203**	173	143	123
OSP - 9 (E)	11.0	15	17	V-6	2"		257	240	**215**	184	152	131
OSP - 9 (E)	13.0	17.5	18	V-6	2"		272	254	**228**	194	161	138
OSP - 9 (E)	13.0	17.5	19	V-6	2"		287	268	**241**	205	170	146
OSP - 9 (E)	13.0	17.5	20	V-6	2"		302	282	**253**	216	179	154
OSP - 9 (E)	15.0	20	21	V-6	2"		318	296	**266**	227	188	161
OSP - 9 (E)	15.0	20	22	V-6	2"		333	310	**279**	238	196	169
OSP - 9 (E)	15.0	20	23	V-6	2"		348	325	**291**	248	205	177
OSP - 9 (E)	18.5	25	24	V-6	2"		363	339	**304**	259	214	185
OSP - 9 (E)	18.5	25	25	V-6	2"		378	353	**317**	270	223	192
OSP - 9 (E)	18.5	25	26	V-6	2"		393	367	**329**	281	232	200
OSP - 9 (E)	18.5	25	27	V-6	2"		408	381	**342**	292	241	208
OSP - 9 (E)	18.5	25	28	V-6	2"		423	395	**355**	302	250	215
OSP - 9 (E)	18.5	25	29	V-6	2"		438	409	**367**	313	259	223

Technical Data

OSP - 9

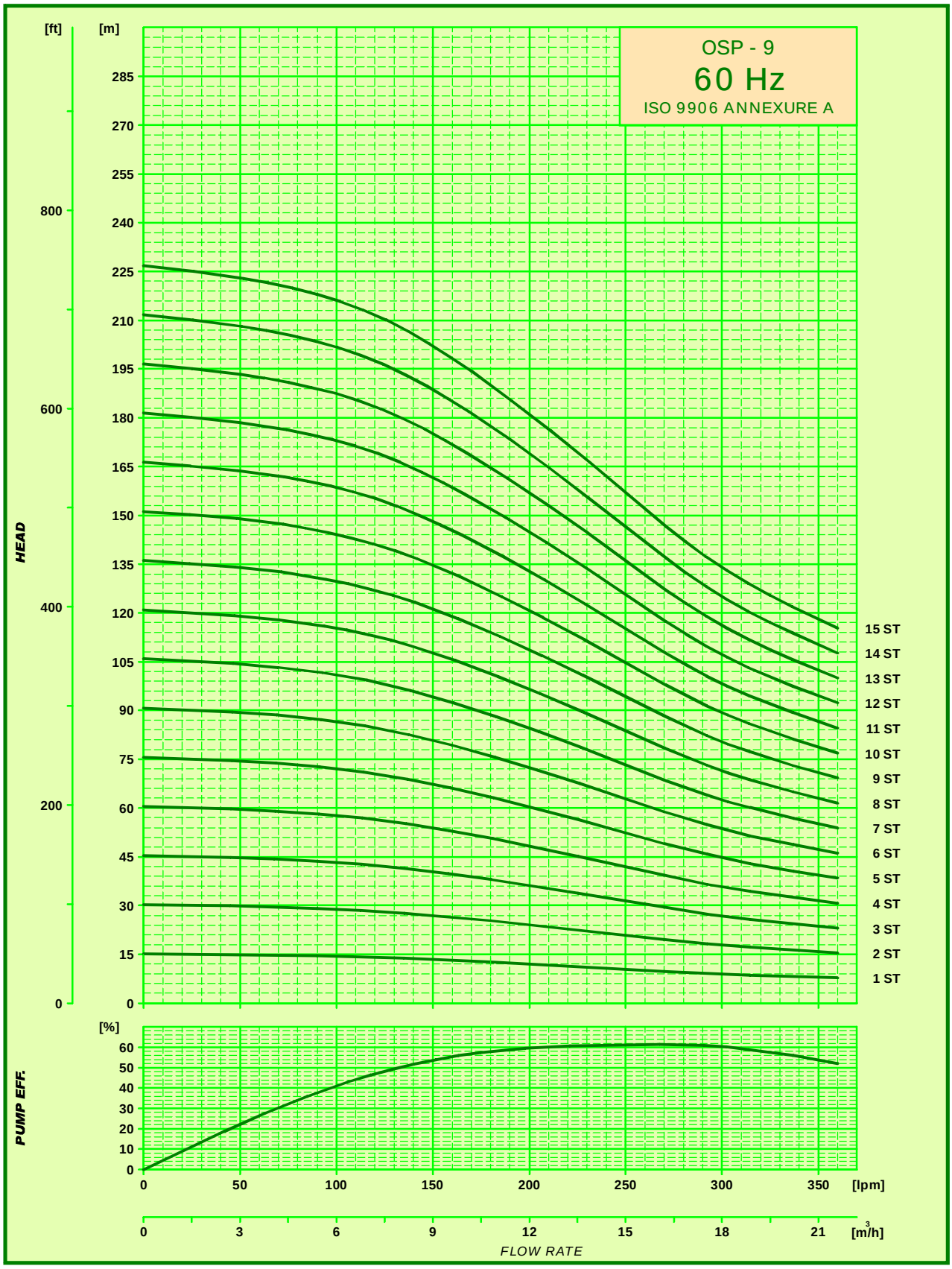
PUMP MODEL	STAGE	MOTOR		PUMP				Motor
		Joining Motor	Power (KW)	Length C (mm)	E* (mm)	E** (mm)	Weight Kg	OD D
OSP - 9(E) (4 X 6)	1	V-4	0.75	336	131		5.3	97.5
OSP - 9(E) (4 X 6)	2	V-4	1.50	396	131		6.6	97.5
OSP - 9(E) (4 X 6)	3	V-4	2.20	457	131		7.8	97.5
OSP - 9(E) (4 X 6)	4	V-4	3.0	518	131		9.1	97.5
OSP - 9(E) (4 X 6)	5	V-4	3.0	579	131		10.3	97.5
OSP - 9(E) (4 X 6)	6	V-4	3.7	639	131		11.6	97.5
OSP - 9(E) (4 X 6)	7	V-4	4.5	700	131		12.8	97.5
OSP - 9(E) (4 X 6)	8	V-4	5.5	761	131		14.1	97.5
OSP - 9(E) (4 X 6)	9	V-4	5.5	821	131		15.3	97.5
OSP - 9(E) (4 X 6)	10	V-4	7.5	882	131		16.6	97.5
OSP - 9(E) (4 X 6)	11	V-6	7.5	943	143		18.0	144
OSP - 9 (E)	8	V-4	5.5	761	131	145	14.2	97.5
OSP - 9 (E)	9	V-4	5.5	821	131	145	15.5	97.5
OSP - 9 (E)	10	V-4	7.5	882	131	145	16.7	97.5
OSP - 9 (E)	11	V-6	7.5	943	143	145	18.1	144
OSP - 9 (E)	12	V-6	9.3	1003	143	145	19.2	144
OSP - 9 (E)	13	V-6	9.3	1064	143	145	20.5	144
OSP - 9 (E)	14	V-6	9.3	1125	143	145	21.8	144
OSP - 9 (E)	15	V-6	11.0	1186	143	145	23.0	144
OSP - 9 (E)	16	V-6	11.0	1246	143	145	24.3	144
OSP - 9 (E)	17	V-6	11.0	1307	143	145	25.5	144
OSP - 9 (E)	18	V-6	13.0	1368	143	145	26.8	144
OSP - 9 (E)	19	V-6	13.0	1428	143	145	28.1	144
OSP - 9 (E)	20	V-6	13.0	1489	143	145	29.3	144
OSP - 9 (E)	21	V-6	15.0	1550	143	145	30.6	144
OSP - 9 (E)	22	V-6	15.0	1610	143	145	31.8	144
OSP - 9 (E)	23	V-6	15.0	1671	143	145	33.1	144
OSP - 9 (E)	24	V-6	18.5	1732	143	145	34.4	144
OSP - 9 (E)	25	V-6	18.5	1793	143	145	35.6	144
OSP - 9 (E)	26	V-6	18.5	1853	143	145	36.9	144
OSP - 9 (E)	27	V-6	18.5	1914	143	145	38.1	144
OSP - 9 (E)	28	V-6	18.5	1975	143	145	39.4	144
OSP - 9 (E)	29	V-6	18.5	2035	143	145	40.7	144

FIGURE

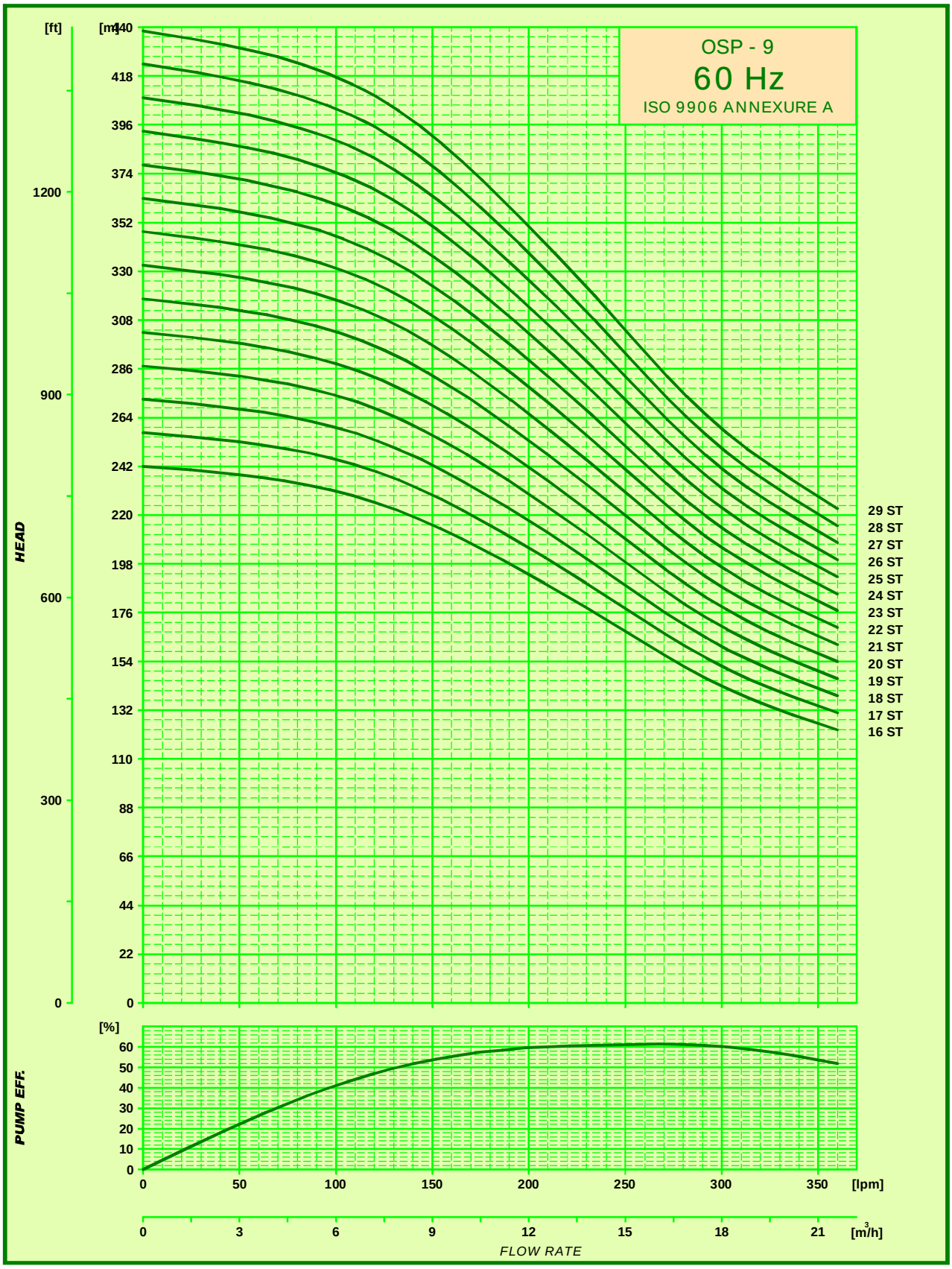


E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE
E** : MAX.DIA OF PUMP WITH TWO MOTOR CABLE

Performance Curves



Performance Curves



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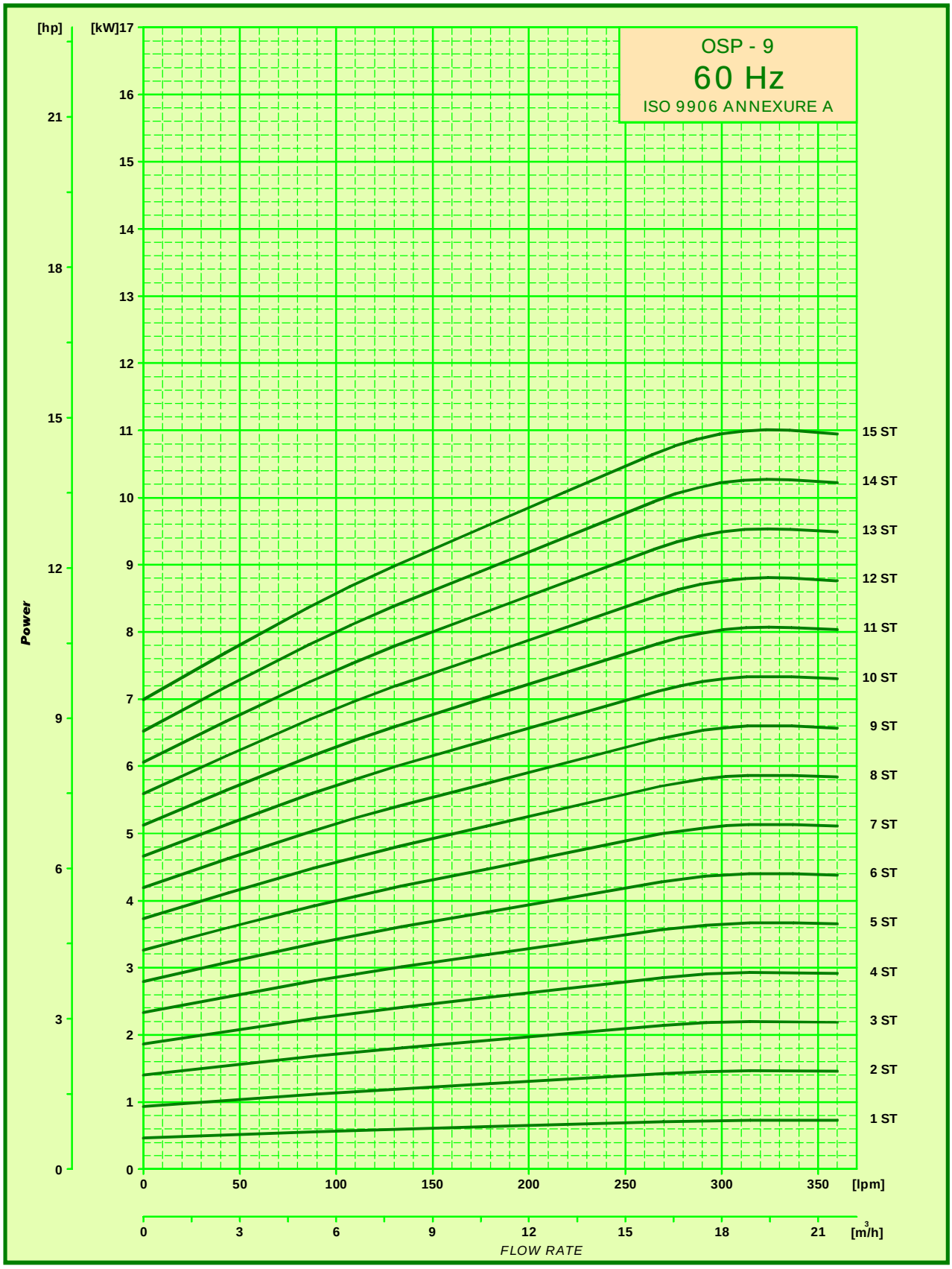

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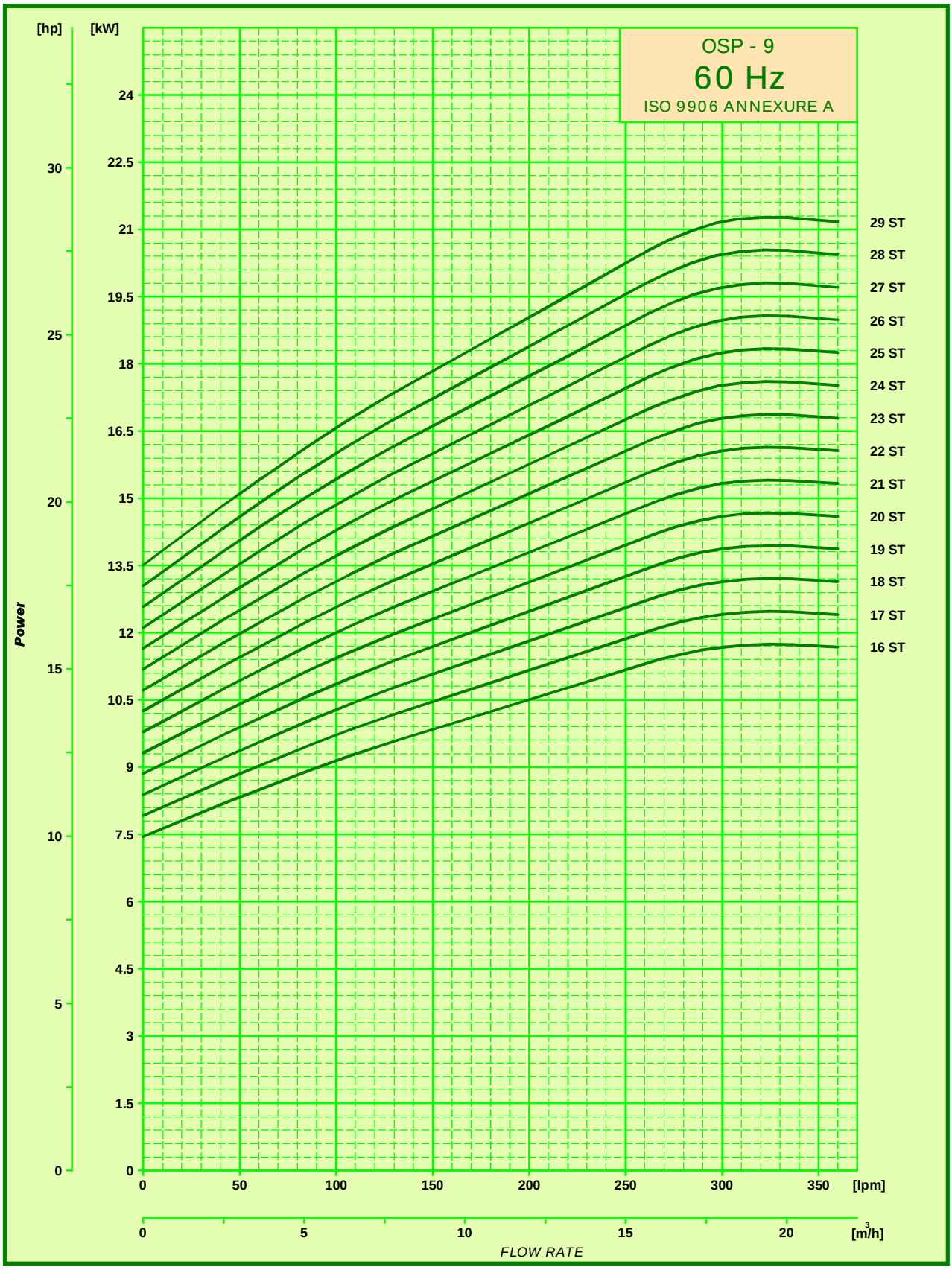


Performance Table

OSP-12

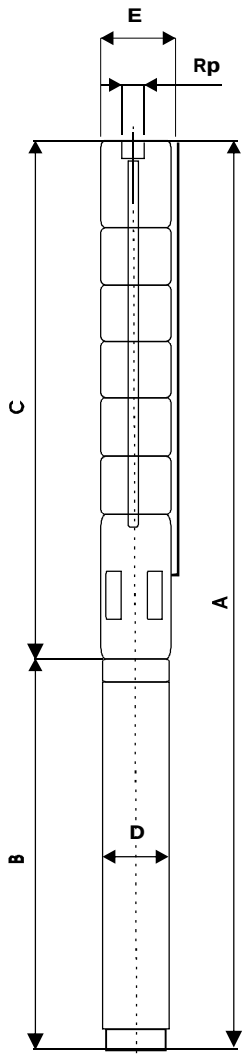
MODEL	K.W.	H.P.	Stage	Motor joining	Out let Size in inches	Discharge						
						M^3/hr.	0	7.2	10.8	**14.4**	18	21.6
						LPM	0	120	180	**240**	300	360
OSP-12 (E) (4x6)	0.75	1	1	**V-4**	2"	HEAD IN METERS	15	14	14	**12**	11	9
OSP-12 (E) (4x6)	1.50	2	2	V-4	2"		30	29	27	**24**	22	17
OSP-12 (E) (4x6)	2.20	3	3	V-4	2"		45	43	41	**37**	32	26
OSP-12 (E) (4x6)	3.00	4	4	V-4	2"		60	58	55	**49**	43	35
OSP-12 (E) (4x6)	3.7	5	5	V-4	2"		76	72	68	**61**	54	43
OSP-12 (E) (4x6)	4.5	6	6	V-4	2"		91	87	82	**73**	65	52
OSP-12 (E) (4x6)	5.5	7.5	7	V-4	2"		106	101	96	**86**	76	60
OSP-12 (E) (4x6)	5.5	7.5	8	V-4	2"		121	116	109	**98**	86	69
OSP-12 (E) (4x6)	7.5	10	9	V-4	2"		136	130	123	**110**	97	78
OSP-12 (E) (4x6)	7.5	10	10	V-4	2"		151	144	137	**122**	108	86
OSP - 12 (E)	5.5	7.5	7	**V-6**	2"		106	101	96	**86**	76	60
OSP - 12 (E)	5.5	7.5	8	V-6	2"		121	116	109	**98**	86	69
OSP - 12 (E)	7.5	10	9	V-6	2"		136	130	123	**110**	97	78
OSP - 12 (E)	7.5	10	10	V-6	2"		151	144	137	**122**	108	86
OSP - 12 (E)	7.5	10	11	V-6	2"		166	159	150	**135**	119	95
OSP - 12 (E)	9.3	12.5	12	V-6	2"		181	173	164	**147**	130	104
OSP - 12 (E)	9.3	12.5	13	V-6	2"		197	188	178	**159**	140	112
OSP - 12 (E)	11.0	15	14	V-6	2"		212	202	192	**171**	151	121
OSP - 12 (E)	11.0	15	15	V-6	2"		227	217	205	**184**	162	130
OSP - 12 (E)	11.0	15	16	V-6	2"		242	231	219	**196**	173	138
OSP - 12 (E)	13.0	17.5	17	V-6	2"		257	245	233	**208**	184	147
OSP - 12 (E)	13.0	17.5	18	V-6	2"		272	260	246	**220**	194	156
OSP - 12 (E)	13.0	17.5	19	V-6	2"		287	274	260	**233**	205	164
OSP - 12 (E)	15.0	20	20	V-6	2"		302	289	274	**245**	216	173
OSP - 12 (E)	15.0	20	21	V-6	2"		318	303	287	**257**	227	181
OSP - 12 (E)	15.0	20	22	V-6	2"		333	318	301	**269**	238	190
OSP - 12 (E)	18.5	25	23	V-6	2"		348	332	315	**282**	248	199
OSP - 12 (E)	18.5	25	24	V-6	2"		363	347	328	**294**	259	207
OSP - 12 (E)	18.5	25	25	V-6	2"		378	361	342	**306**	270	216
OSP - 12 (E)	18.5	25	26	V-6	2"		393	375	356	**318**	281	225
OSP - 12 (E)	22.0	30	27	V-6	2"		408	390	369	**330**	292	233
OSP - 12 (E)	22.0	30	28	V-6	2"		423	404	383	**343**	302	242
OSP - 12 (E)	22.0	30	29	V-6	2"		438	419	397	**355**	313	251
OSP - 12 (E)	22.0	30	30	V-6	2"		454	433	410	**367**	324	259
OSP - 12 (E)	22.0	30	31	V-6	2"		469	448	424	**379**	335	268
OSP - 12 (E)	22.0	30	32	V-6	2"		484	462	438	**392**	346	276

Technical Data

OSP - 12

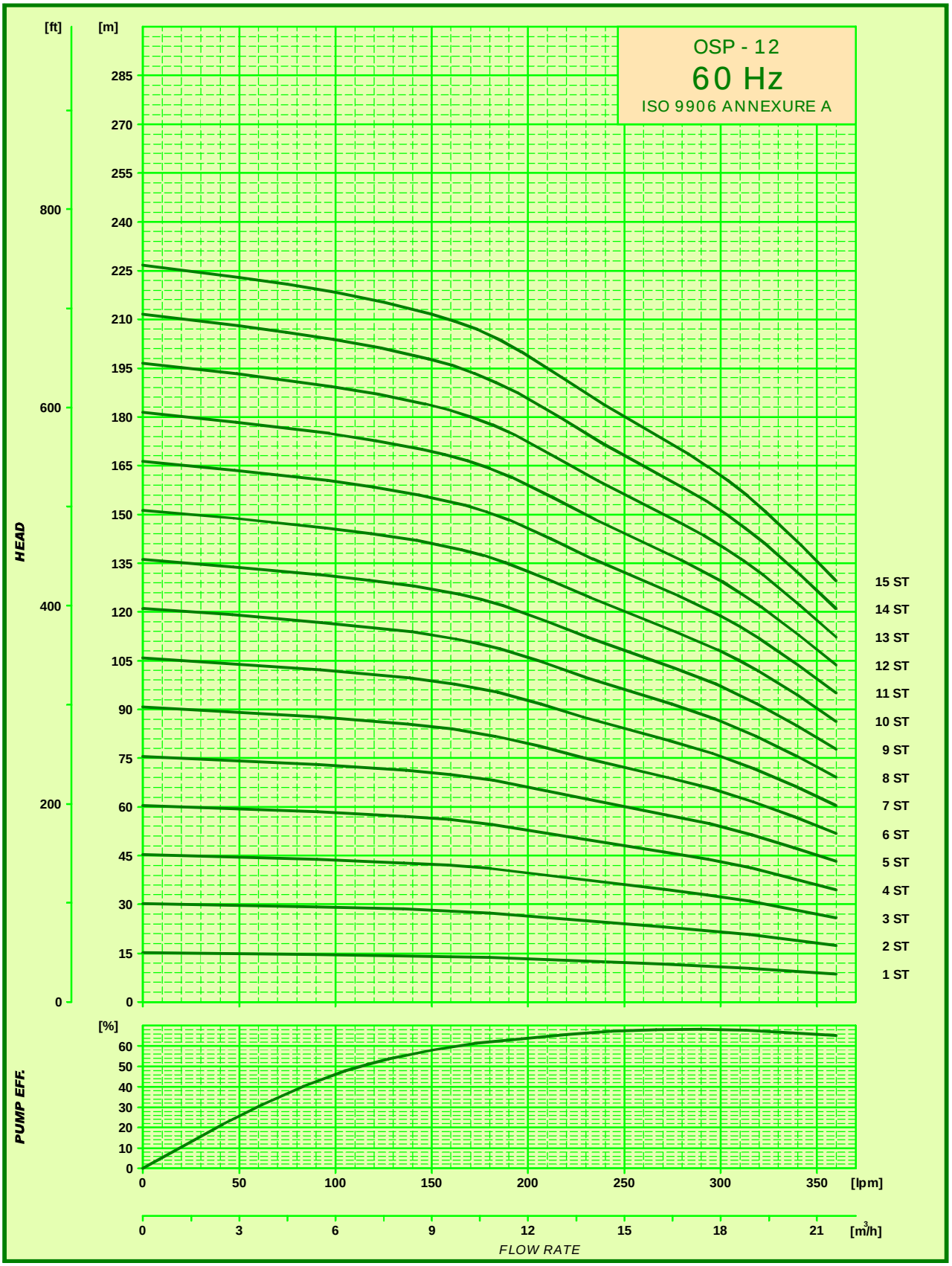
PUMP MODEL	STAGE	MOTOR		PUMP				Motor
		Joining Motor	Power (KW)	Length C (mm)	E* (mm)	E** (mm)	Weight Kg	OD D
OSP - 12 (E) (4x6)	1	V-4	0.75	336	131		5.3	97.5
OSP - 12 (E) (4x6)	2	V-4	1.5	396	131		6.6	97.5
OSP - 12 (E) (4x6)	3	V-4	2.2	457	131		7.8	97.5
OSP - 12 (E) (4x6)	4	V-4	3.0	518	131		9.1	97.5
OSP - 12 (E) (4x6)	5	V-4	3.7	579	131		10.3	97.5
OSP - 12 (E) (4x6)	6	V-4	4.5	639	131		11.6	97.5
OSP - 12 (E) (4x6)	7	V-4	5.5	700	131		12.8	97.5
OSP - 12 (E) (4x6)	8	V-4	5.5	761	131		14.1	97.5
OSP - 12 (E) (4x6)	9	V-4	7.5	821	131		15.3	97.5
OSP - 12 (E) (4x6)	10	V-4	7.5	882	131		16.6	97.5
OSP - 12 (E)	7	**V-6**	5.5	700	143	145	12.9	144
OSP - 12 (E)	8	V-6	5.5	761	143	145	14.2	144
OSP - 12 (E)	9	V-6	7.5	821	143	145	15.5	144
OSP - 12 (E)	10	V-6	7.5	882	143	145	16.7	144
OSP - 12 (E)	11	V-6	7.5	943	143	145	18.0	144
OSP - 12 (E)	12	V-6	9.3	1003	143	145	19.2	144
OSP - 12 (E)	13	V-6	9.3	1064	143	145	20.5	144
OSP - 12 (E)	14	V-6	11.0	1125	143	145	21.8	144
OSP - 12 (E)	15	V-6	11.0	1186	143	145	23.0	144
OSP - 12 (E)	16	V-6	11.0	1246	143	145	24.3	144
OSP - 12 (E)	17	V-6	13.0	1307	143	145	25.5	144
OSP - 12 (E)	18	V-6	13.0	1368	143	145	26.8	144
OSP - 12 (E)	19	V-6	13.0	1428	143	145	28.1	144
OSP - 12 (E)	20	V-6	15.0	1489	143	145	29.3	144
OSP - 12 (E)	21	V-6	15.0	1550	143	145	30.6	144
OSP - 12 (E)	22	V-6	15.0	1610	143	145	31.8	144
OSP - 12 (E)	23	V-6	18.5	1671	143	145	33.1	144
OSP - 12 (E)	24	V-6	18.5	1732	143	145	34.4	144
OSP - 12 (E)	25	V-6	18.5	1793	143	145	35.6	144
OSP - 12 (E)	26	V-6	18.5	1853	143	145	36.9	144
OSP - 12 (E)	27	V-6	22.0	1914	143	145	38.1	144
OSP - 12 (E)	28	V-6	22.0	1975	143	145	39.4	144
OSP - 12 (E)	29	V-6	22.0	2035	143	145	40.7	144
OSP - 12 (E)	30	V-6	22.0	2096	143	145	41.9	144
OSP - 12 (E)	31	V-6	22.0	2157	143	145	43.2	144
OSP - 12 (E)	32	V-6	22.0	2217	143	145	44.4	144

FIGURE

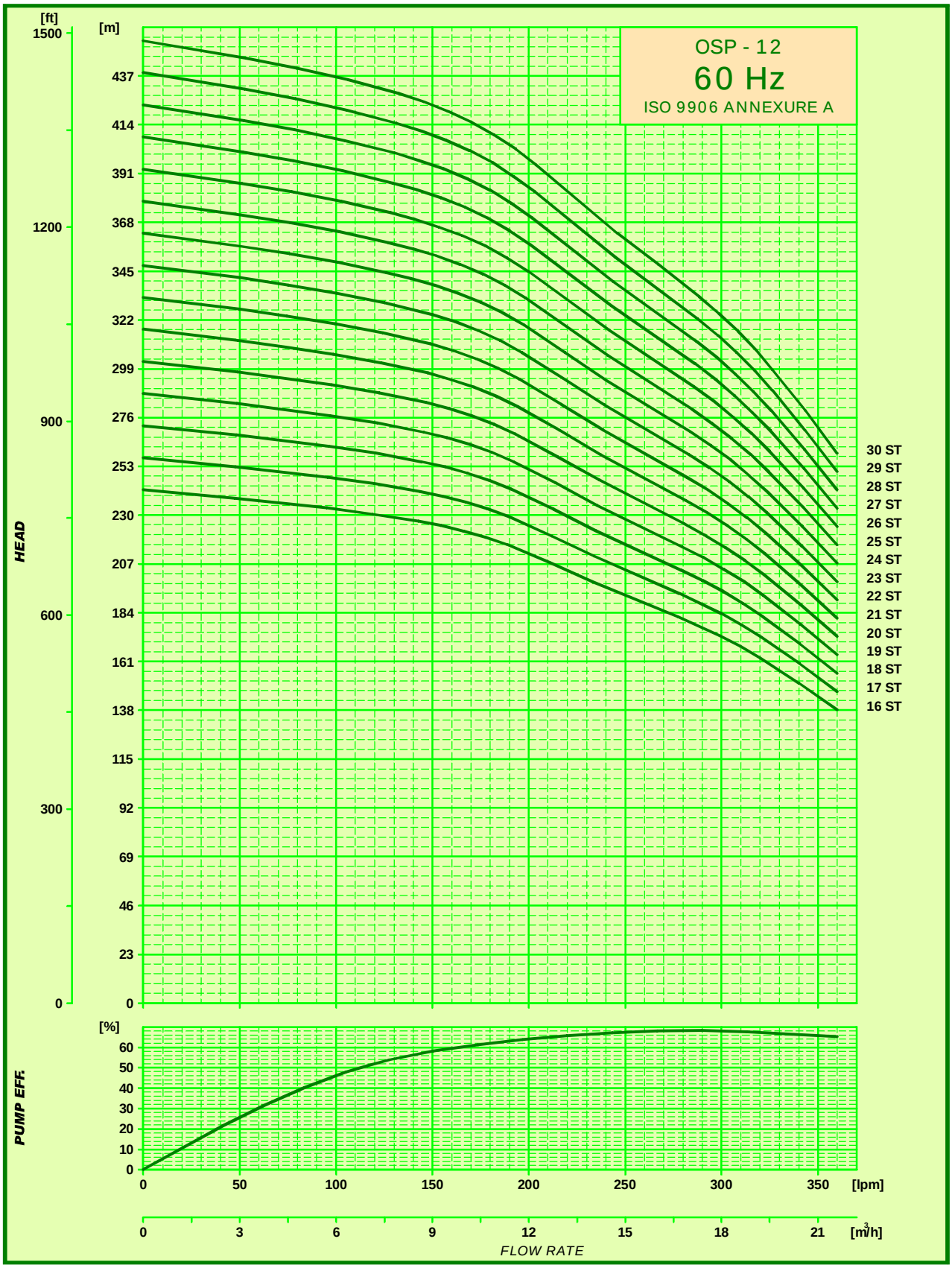


E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE
E**: MAX.DIA OF PUMP WITH TWO MOTOR CABLE

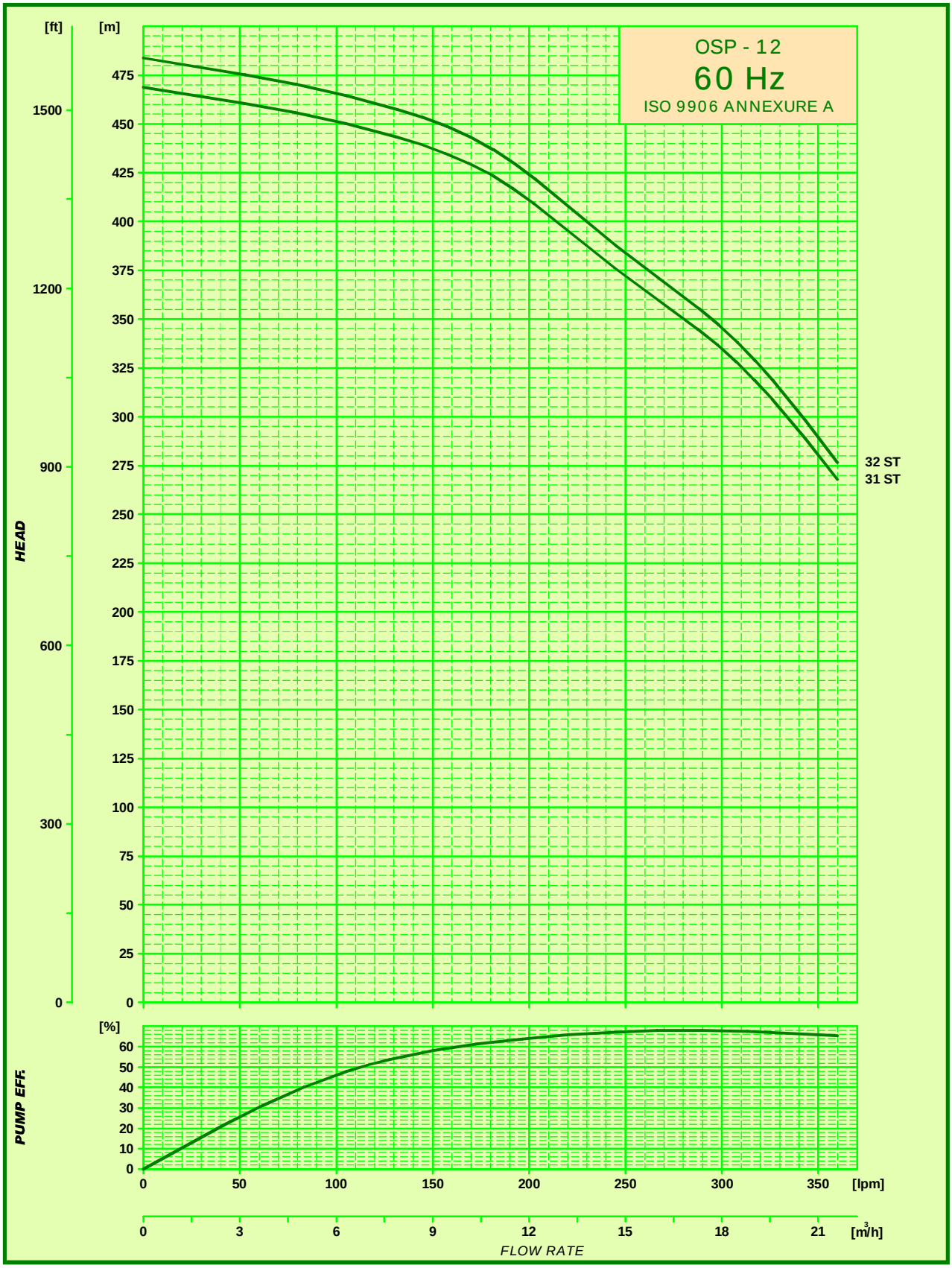
Performance Curves



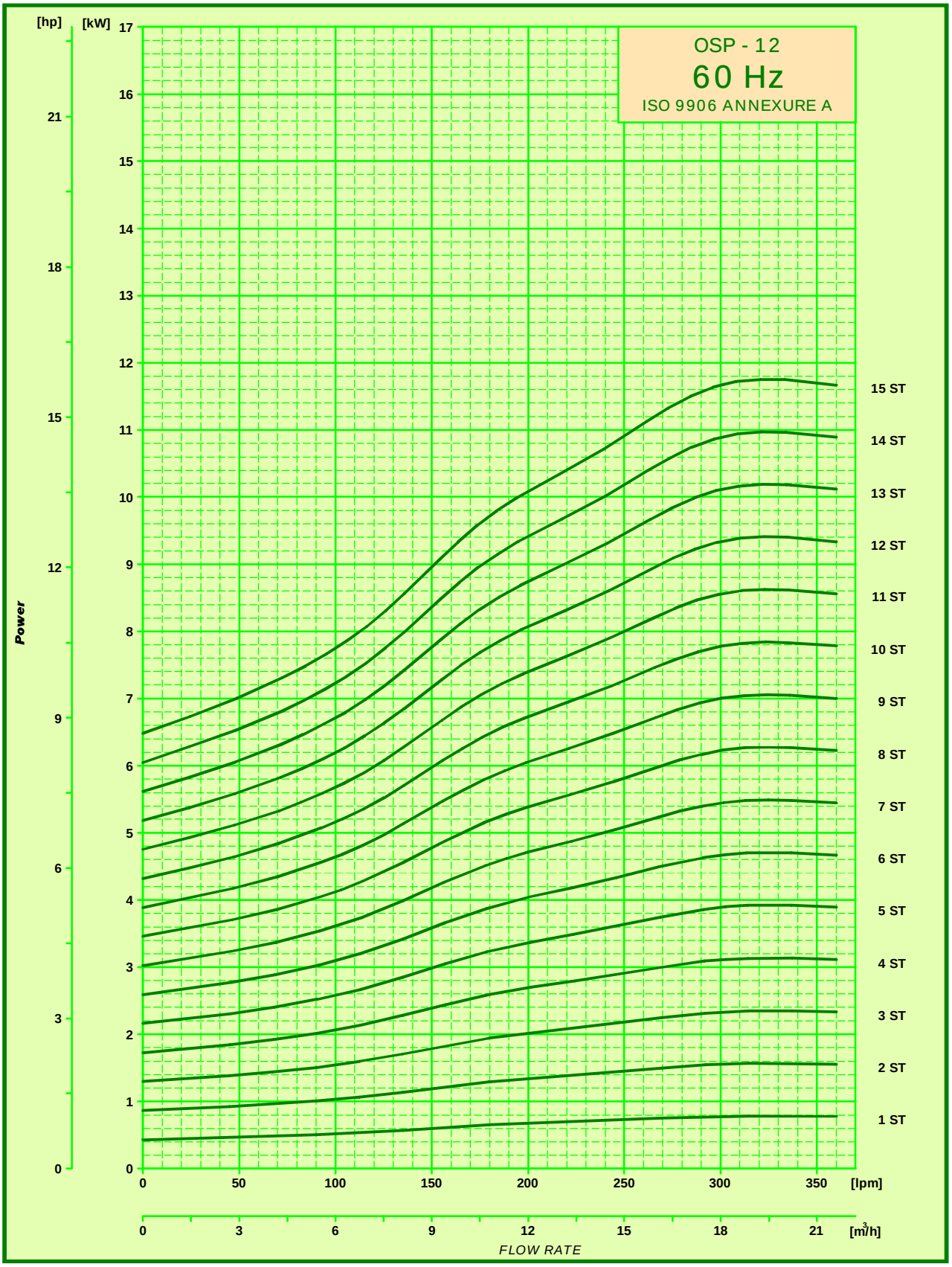
Performance Curves



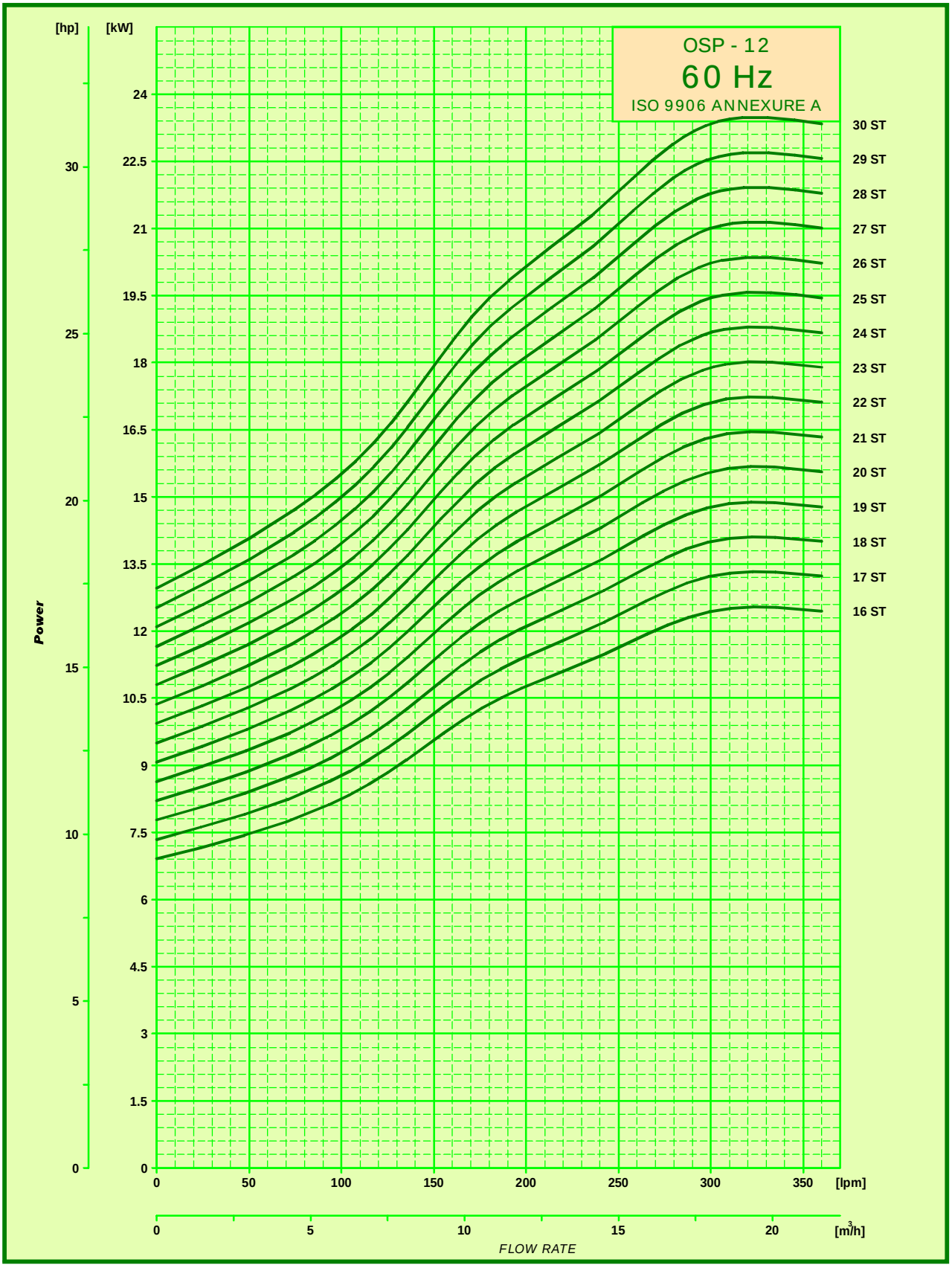
Performance Curves



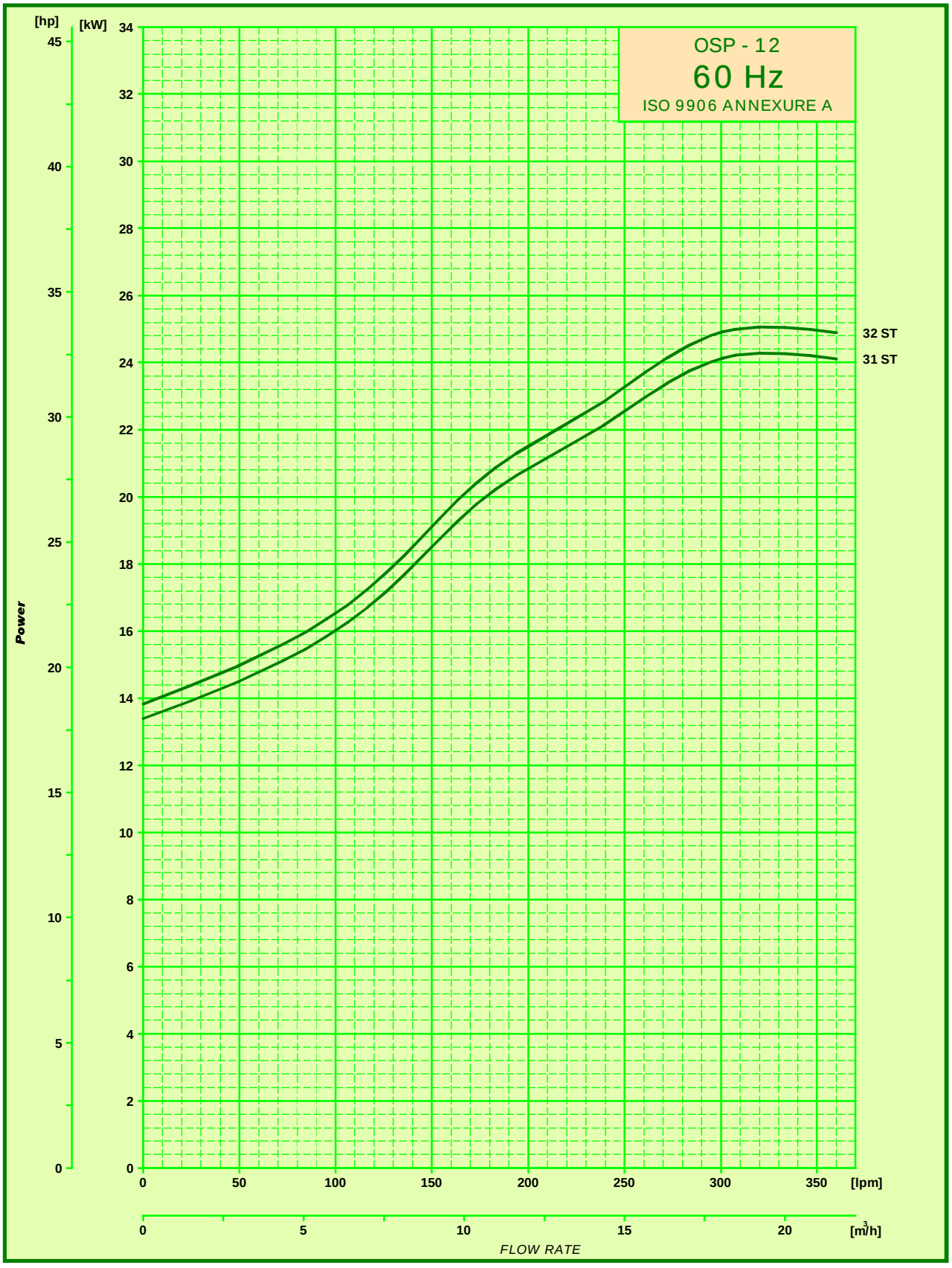
Power Curves



Power Curves



Power Curves



Performance Table

OSP-17

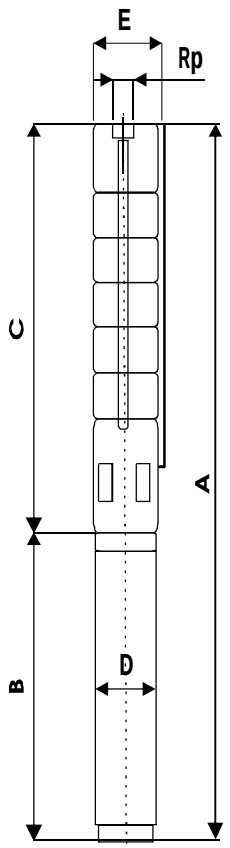
MODEL	K.W.	H.P.	Stage	Motor joining	Out let Size in inches	Discharge						
						M^3/hr.	0	7.2	14.4	**18**	21.6	25.2
						LPM	0	120	240	**300**	360	420
OSP-17 (E) (4x6)	1.10	1.5	1	**V-4**	2½"	HEAD IN METERS	16	16	14	**13**	11	8
OSP-17 (E) (4x6)	2.2	3	2	V-4	2½"		32	32	28	**25**	21	16
OSP-17 (E) (4x6)	3.0	4	3	V-4	2½"		48	48	42	**38**	32	25
OSP-17 (E) (4x6)	4.5	6	4	V-4	2½"		64	63	56	**51**	43	33
OSP-17 (E) (4x6)	5.5	7.5	5	V-4	2½"		81	79	71	**63**	53	41
OSP-17 (E) (4x6)	5.5	7.5	6	V-4	2½"		97	95	85	**76**	64	49
OSP-17 (E) (4x6)	7.5	10	7	V-4	2½"		113	111	99	**89**	75	57
OSP-17 (E) (4x6)	7.5	10	8	V-4	2½"		129	127	113	**101**	85	66
OSP-17 (E) (4x6)	7.5	10	9	V-4	2½"		145	143	127	**114**	96	74
OSP - 17 (E)	5.5	7.5	5	**V-6**	2½"		81	79	71	**63**	53	41
OSP - 17 (E)	5.5	7.5	6	V-6	2½"		97	95	85	**76**	64	49
OSP - 17 (E)	7.5	10	7	V-6	2½"		113	111	99	**89**	75	57
OSP - 17 (E)	7.5	10	8	V-6	2½"		129	127	113	**101**	85	66
OSP - 17 (E)	7.5	10	9	V-6	2½"		145	143	127	**114**	96	74
OSP - 17 (E)	9.3	12.5	10	V-6	2½"		161	158	141	**127**	107	82
OSP - 17 (E)	9.3	12.5	11	V-6	2½"		177	174	155	**139**	117	90
OSP - 17 (E)	11.0	15	12	V-6	2½"		193	190	169	**152**	128	98
OSP - 17 (E)	11.0	15	13	V-6	2½"		210	206	183	**165**	138	107
OSP - 17 (E)	13.0	17.5	14	V-6	2½"		226	222	198	**177**	149	115
OSP - 17 (E)	13.0	17.5	15	V-6	2½"		242	238	212	**190**	160	123
OSP - 17 (E)	15.0	20	16	V-6	2½"		258	253	226	**203**	170	131
OSP - 17 (E)	15.0	20	17	V-6	2½"		274	269	240	**215**	181	139
OSP - 17 (E)	15.0	20	18	V-6	2½"		290	285	254	**228**	192	148
OSP - 17 (E)	18.5	25	19	V-6	2½"		306	301	268	**241**	202	156
OSP - 17 (E)	18.5	25	20	V-6	2½"		322	317	282	**253**	213	164
OSP - 17 (E)	18.5	25	21	V-6	2½"		339	333	296	**266**	224	172
OSP - 17 (E)	18.5	25	22	V-6	2½"		355	348	310	**279**	234	180
OSP - 17 (E)	22	30	23	V-6	2½"		371	364	325	**291**	245	189
OSP - 17 (E)	22	30	24	V-6	2½"		387	380	339	**304**	256	197
OSP - 17 (E)	22	30	25	V-6	2½"		403	396	353	**317**	266	205
OSP - 17 (E)	22	30	26	V-6	2½"		419	412	367	**329**	277	213
OSP - 17 (E) (8x6)	26	35	27	**V-8**	2½"		435	428	381	**342**	288	221
OSP - 17 (E) (8x6)	26	35	28	V-8	2½"		451	444	395	**355**	298	230
OSP - 17 (E) (8x6)	26	35	29	V-8	2½"		467	459	409	**367**	309	238
OSP - 17 (E) (8x6)	26	35	30	V-8	2½"		484	475	423	**380**	320	246
OSP - 17 (E) (8x6)	30	40	33	V-8	2½"		532	523	466	**418**	351	271
OSP - 17 (E) (8x6)	30	40	36	V-8	2½"		580	570	508	**456**	383	295
OSP - 17 (E) (8x6)	37	50	39	V-8	2½"		629	618	550	**494**	415	320
OSP - 17 (E) (8x6)	37	50	42	V-8	2½"		677	665	593	**532**	447	344

Technical Data

OSP - 17

PUMP MODEL	STAGE	MOTOR		PUMP				Motor
		Joining Motor	Power (KW)	Length C (mm)	E* (mm)	E** (mm)	Weight Kg	OD D
OSP - 17 (E) (4x6)	1	V-4	1.10	336	131		5.3	97.5
OSP - 17 (E) (4x6)	2	V-4	2.2	396	131		6.6	97.5
OSP - 17 (E) (4x6)	3	V-4	3.0	457	131		7.8	97.5
OSP - 17 (E) (4x6)	4	V-4	4.5	518	131		9.1	97.5
OSP - 17 (E) (4x6)	5	V-4	5.5	579	131		10.3	97.5
OSP - 17 (E) (4x6)	6	V-4	5.5	639	131		11.6	97.5
OSP - 17 (E) (4x6)	7	V-4	7.5	700	131		12.8	97.5
OSP - 17 (E) (4x6)	8	V-4	7.5	761	131		14.1	97.5
OSP - 17 (E) (4x6)	9	V-4	7.5	821	131		15.3	97.5
OSP - 17 (E)	5	V-6	5.5	579	143	145	10.4	144
OSP - 17 (E)	6	V-6	5.5	639	143	145	11.7	144
OSP - 17 (E)	7	V-6	7.5	700	143	145	12.9	144
OSP - 17 (E)	8	V-6	7.5	761	143	145	14.2	144
OSP - 17 (E)	9	V-6	7.5	821	143	145	15.5	144
OSP - 17 (E)	10	V-6	9.3	882	143	145	16.7	144
OSP - 17 (E)	11	V-6	9.3	943	143	145	18.0	144
OSP - 17 (E)	12	V-6	11.0	1003	143	145	19.2	144
OSP - 17 (E)	13	V-6	11.0	1064	143	145	20.5	144
OSP - 17 (E)	14	V-6	13.0	1125	143	145	21.8	144
OSP - 17 (E)	15	V-6	13.0	1186	143	145	23.0	144
OSP - 17 (E)	16	V-6	15.0	1246	143	145	24.3	144
OSP - 17 (E)	17	V-6	15.0	1307	143	145	25.5	144
OSP - 17 (E)	18	V-6	15.0	1368	143	145	26.8	144
OSP - 17 (E)	19	V-6	18.5	1428	143	145	28.1	144
OSP - 17 (E)	20	V-6	18.5	1489	143	145	29.3	144
OSP - 17 (E)	21	V-6	18.5	1550	143	145	30.6	144
OSP - 17 (E)	22	V-6	18.5	1610	143	145	31.8	144
OSP - 17 (E)	23	V-6	22	1671	143	145	33.1	144
OSP - 17 (E)	24	V-6	22	1732	143	145	34.4	144
OSP - 17 (E)	25	V-6	22	1793	143	145	35.6	144
OSP - 17 (E)	26	V-6	22	1853	143	145	36.9	144
OSP - 17 (E) (8x6)	27	V-8	26	1949	189	189	41.4	189
OSP - 17 (E) (8x6)	28	V-8	26	2010	189	189	42.7	189
OSP - 17 (E) (8x6)	29	V-8	26	2070	189	189	43.9	189
OSP - 17 (E) (8x6)	30	V-8	26	2131	189	189	45.2	189
OSP - 17 (E) (8x6) (S)	33	V-8	30					189
OSP - 17 (E) (8x6) (S)	36	V-8	30					189
OSP - 17 (E) (8x6) (S)	39	V-8	37					189
OSP - 17 (E) (8x6) (S)	42	V-8	37					189

FIGURE

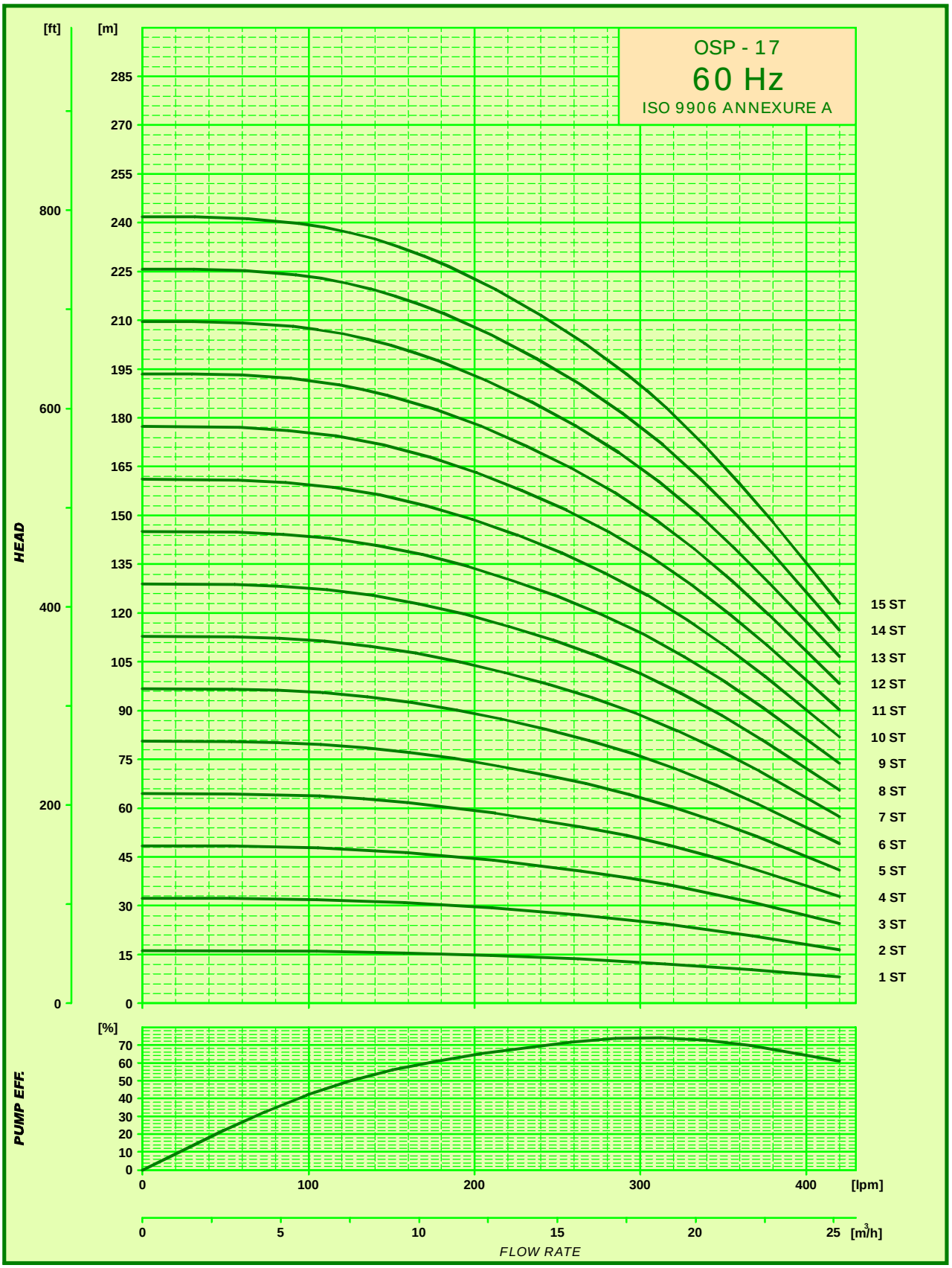


(S) Means with Sleeve (External Jacket)

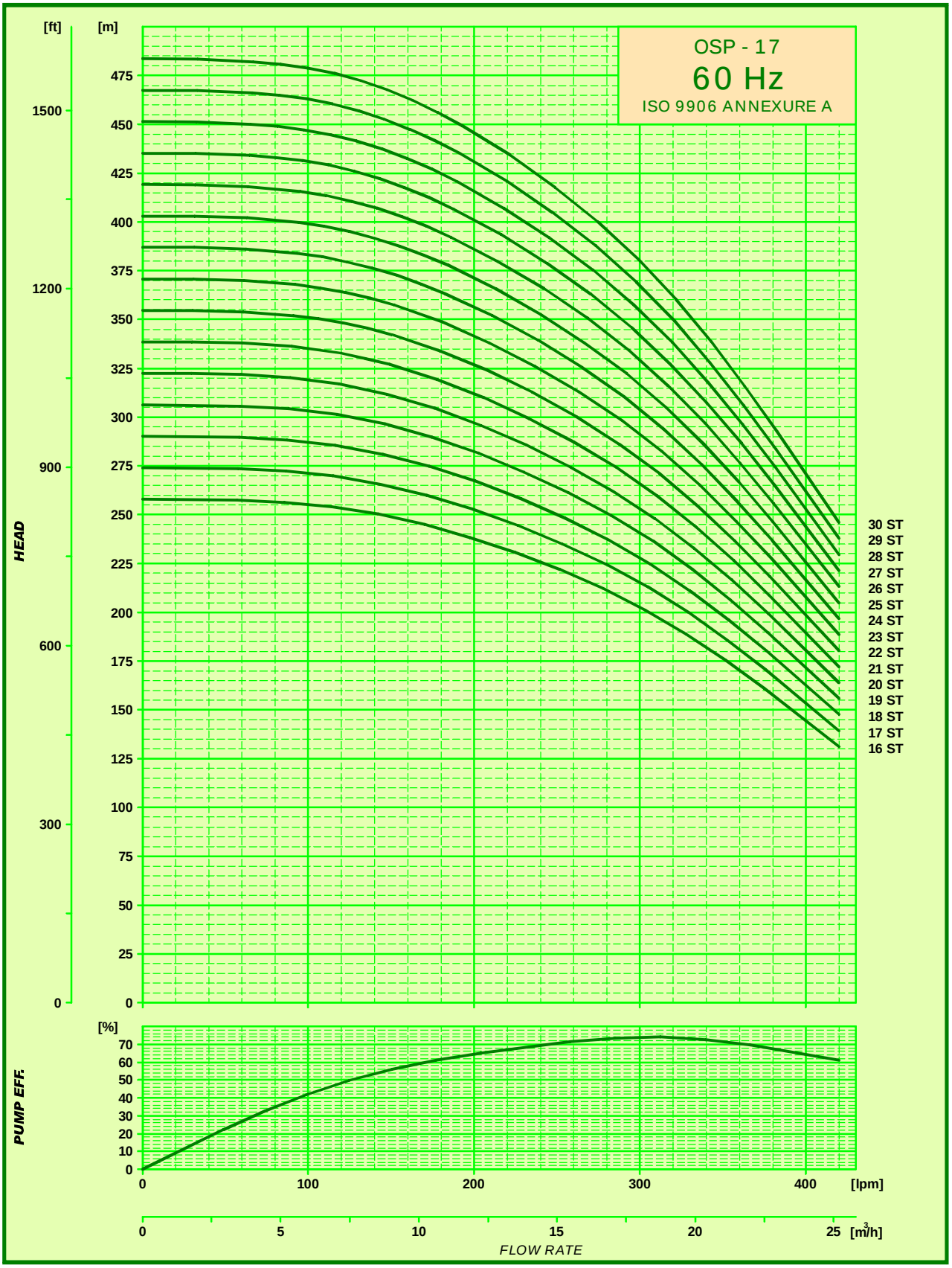
E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE

E**: MAX.DIA OF PUMP WITH TWO MOTOR CABLE

Performance Curves



Performance Curves



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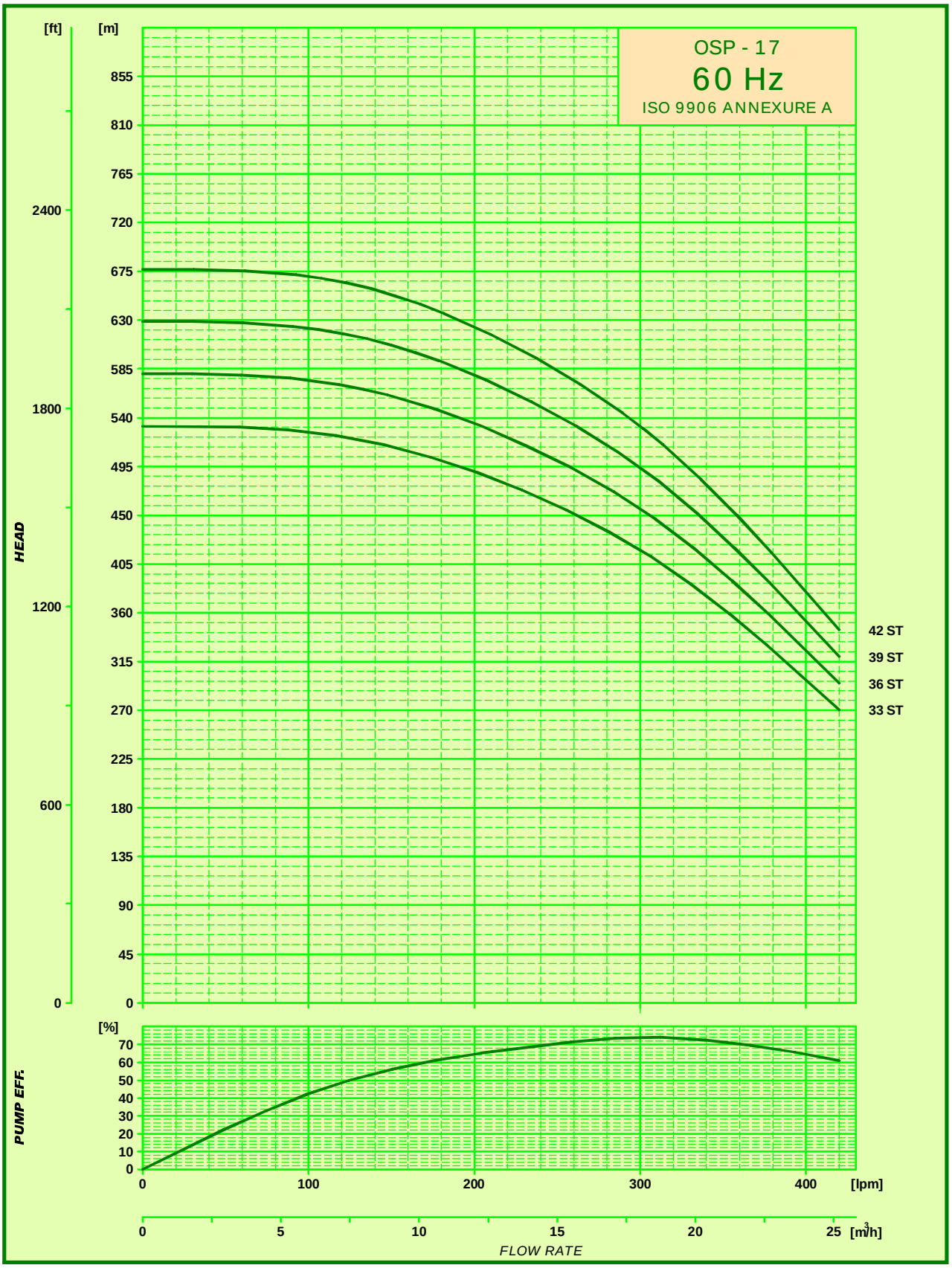

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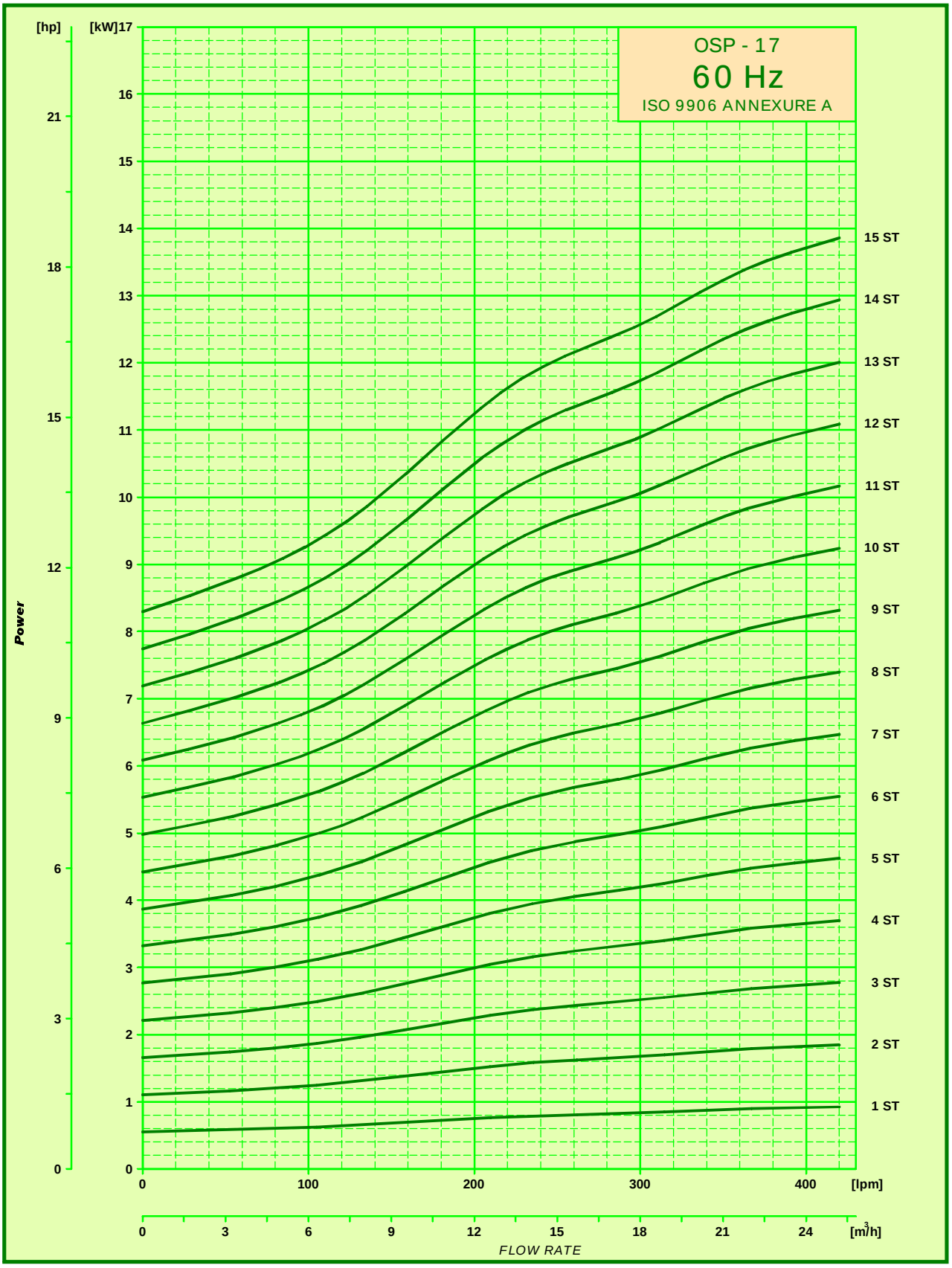

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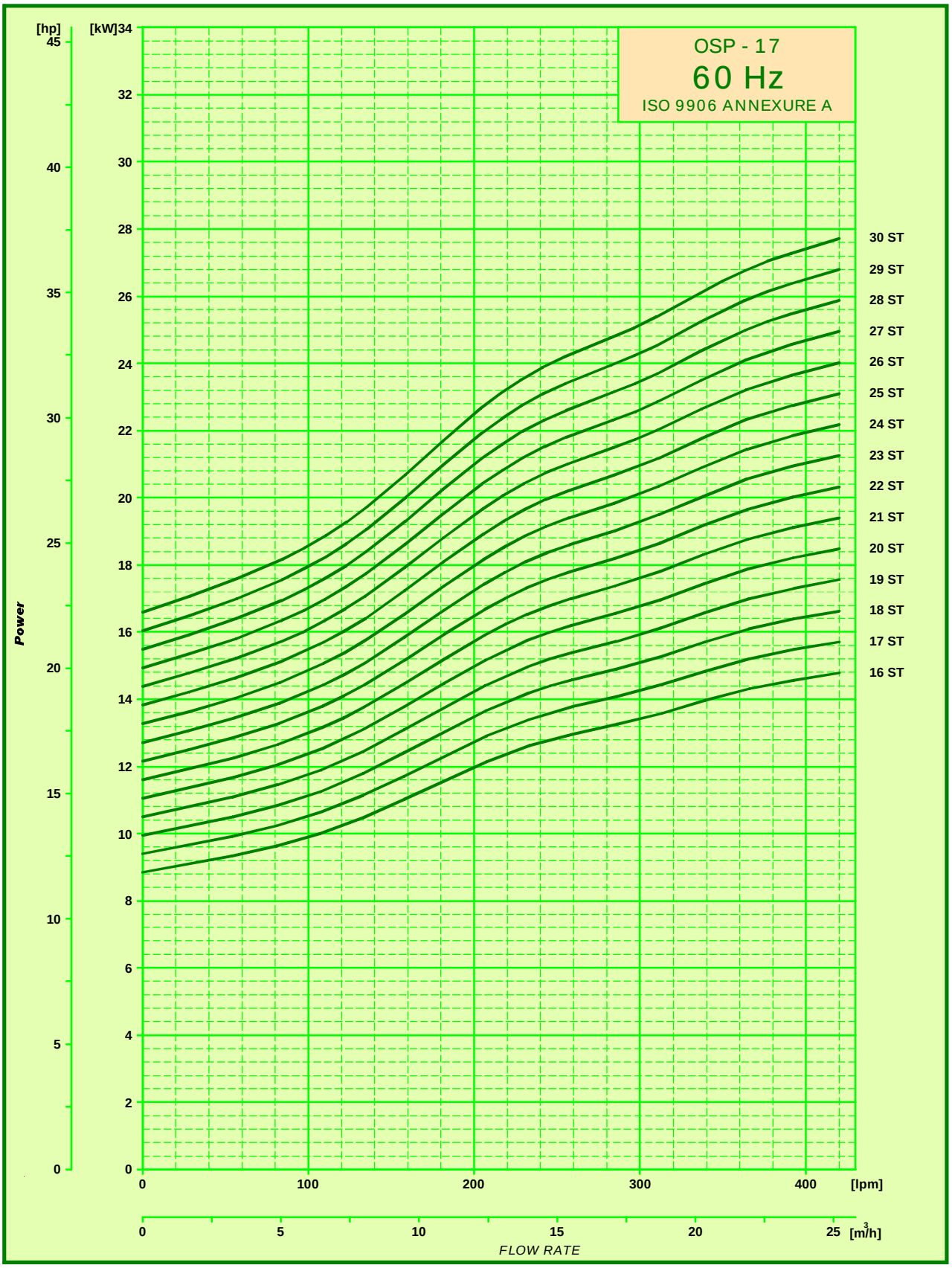
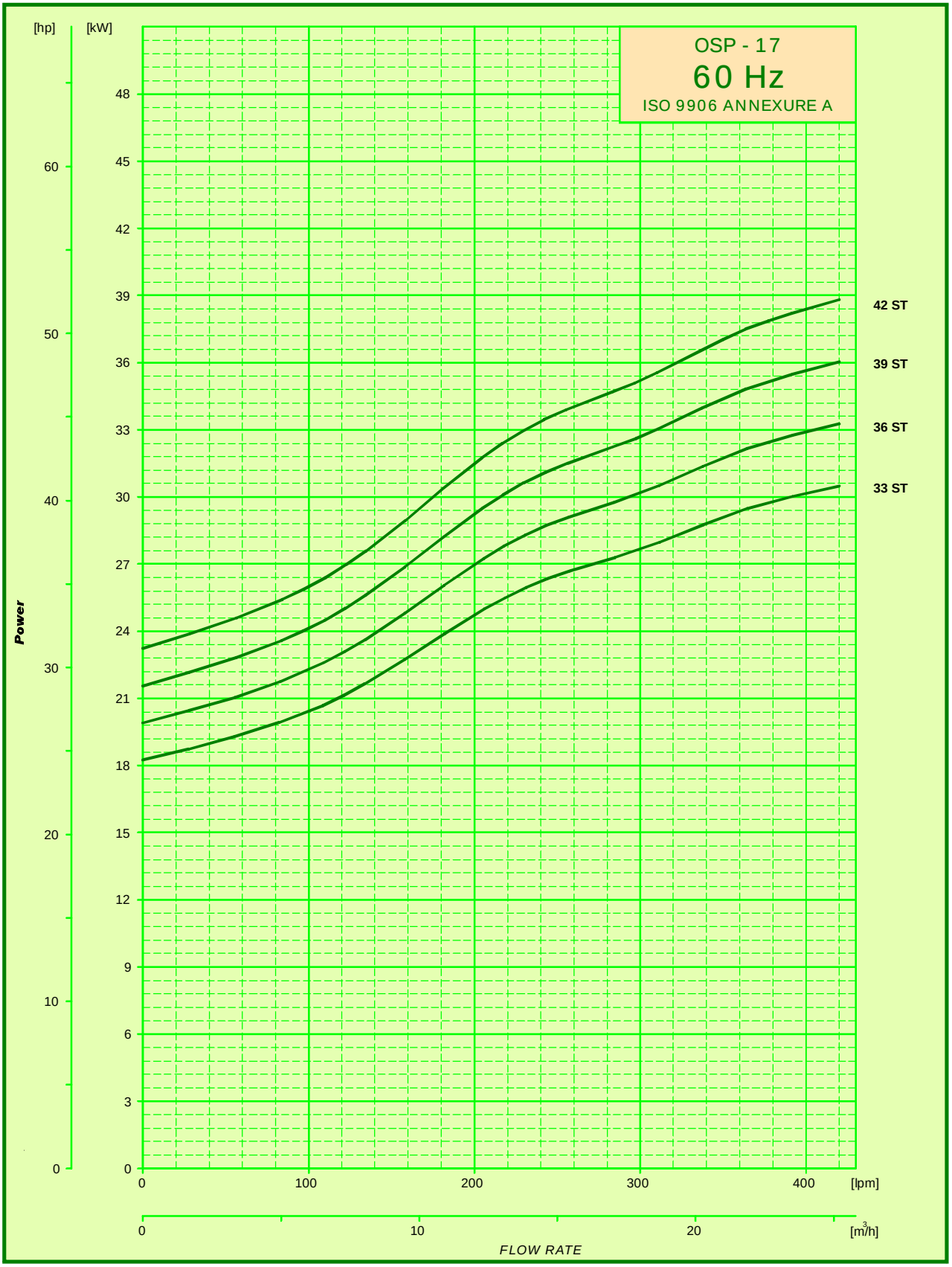


Power Curves



Performance Table

OSP- 30

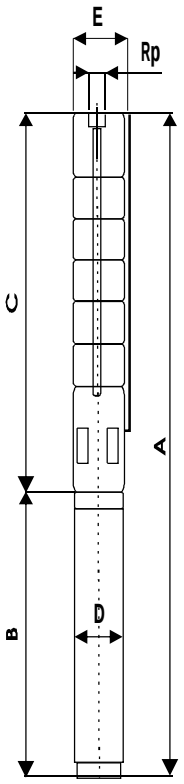
MODEL	K.W.	H.P.	Stage	Motor joining	Out let Size in inches	Discharge						
						M^3/hr.	0	14.4	28.8	**36**	43.2	46.8
						LPM	0	240	480	**600**	720	780
OSP-30 (E) (4x6)	1.5	2	1	V-4	3"	HEAD IN METERS	16	15	13	**11**	8	6
OSP-30 (E) (4x6)	3.0	4	2	V-4	3"		33	30	25	**22**	15	12
OSP-30 (E) (4x6)	4.5	6	3	V-4	3"		49	46	38	**32**	23	18
OSP-30 (E) (4x6)	5.5	7.5	4	V-4	3"		66	61	50	**43**	31	24
OSP-30 (E) (4x6)	7.5	10	5	V-4	3"		82	76	63	**54**	39	30
OSP - 30 (E)	5.5	7.5	4	V-6	3"		66	61	50	**43**	31	24
OSP - 30 (E)	7.5	10	5	V-6	3"		82	76	63	**54**	39	30
OSP - 30 (E)	9.3	12.5	6	V-6	3"		98	91	76	**65**	46	36
OSP - 30 (E)	9.3	12.5	7	V-6	3"		115	106	88	**76**	54	42
OSP - 30 (E)	11	15	8	V-6	3"		131	122	101	**86**	62	48
OSP - 30 (E)	13	17.5	9	V-6	3"		148	137	113	**97**	69	54
OSP - 30 (E)	13	17.5	10	V-6	3"		164	152	126	**108**	77	60
OSP - 30 (E)	15	20	11	V-6	3"		180	167	139	**119**	85	66
OSP - 30 (E)	18.5	25	12	V-6	3"		197	182	151	**130**	92	72
OSP - 30 (E)	18.5	25	13	V-6	3"		213	198	164	**140**	100	78
OSP - 30 (E)	18.5	25	14	V-6	3"		230	213	176	**151**	108	84
OSP - 30 (E)	22	30	15	V-6	3"		246	228	189	**162**	116	90
OSP - 30 (E)	22	30	16	V-6	3"		262	243	202	**173**	123	96
OSP - 30 (E)	22	30	17	V-6	3"		279	258	214	**184**	131	102
OSP-30 (E) (8X6)	26	35	18	V-8	3"		295	274	227	**194**	139	108
OSP-30 (E) (8X6)	26	35	19	V-8	3"		312	289	239	**205**	146	114
OSP-30 (E) (8X6)	26	35	20	V-8	3"		328	304	252	**216**	154	120
OSP-30 (E) (8X6)	30	40	21	V-8	3"		344	319	265	**227**	162	126
OSP-30 (E) (8X6)	30	40	22	V-8	3"		361	334	277	**238**	169	132
OSP-30 (E) (8X6)	30	40	23	V-8	3"		377	350	290	**248**	177	138
OSP-30 (E) (8X6)	37	50	24	V-8	3"		394	365	302	**259**	185	144
OSP-30 (E) (8X6)	37	50	25	V-8	3"		410	380	315	**270**	193	150
OSP-30 (E) (8X6)	37	50	26	V-8	3"		426	395	328	**281**	200	156
OSP-30 (E) (8X6)	37	50	27	V-8	3"		443	410	340	**292**	208	162
OSP-30 (E) (8X6)	37	50	28	V-8	3"		459	426	353	**302**	216	168
OSP-30 (E) (8X6)	45	60	29	V-8	3"		476	441	365	**313**	223	174
OSP-30 (E) (8X6)	45	60	31	V-8	3"		508	471	391	**335**	239	186

Technical Data

OSP - 30

PUMP MODEL	STAGE	MOTOR		PUMP				Motor
		Joining Motor	Power (KW)	Length C (mm)	E* (mm)	E** (mm)	Weight Kg	OD D
OSP - 30 (E) (4x6)	1	**V-4**	1.5	371	131		6.0	97.5
OSP - 30 (E) (4x6)	2	V-4	3.0	467	131		8.0	97.5
OSP - 30 (E) (4x6)	3	V-4	4.5	563	131		9.9	97.5
OSP - 30 (E) (4x6)	4	V-4	5.5	659	131		11.8	97.5
OSP - 30 (E) (4x6)	5	V-4	7.5	755	131		13.8	97.5
OSP - 30 (E)	4	**V-6**	5.5	659	143	145	11.9	144
OSP - 30 (E)	5	V-6	7.5	755	143	145	13.8	144
OSP - 30 (E)	6	V-6	9.3	851	143	145	15.7	144
OSP - 30 (E)	7	V-6	9.3	947	143	145	17.7	144
OSP - 30 (E)	8	V-6	11	1043	143	145	19.6	144
OSP - 30 (E)	9	V-6	13	1139	143	145	21.5	144
OSP - 30 (E)	10	V-6	13	1235	143	145	23.5	144
OSP - 30 (E)	11	V-6	15	1331	143	145	25.4	144
OSP - 30 (E)	12	V-6	18.5	1427	143	145	27.4	144
OSP - 30 (E)	13	V-6	18.5	1523	143	145	29.3	144
OSP - 30 (E)	14	V-6	18.5	1619	143	145	31.2	144
OSP - 30 (E)	15	V-6	22	1715	143	145	33.2	144
OSP - 30 (E)	16	V-6	22	1811	143	145	35.1	144
OSP - 30 (E)	17	V-6	22	1907	143	145	37.0	144
OSP - 30 (E) (8X6)	18	**V-8**	26	2038	189	189	42.2	189
OSP - 30 (E) (8X6)	19	V-8	26	2134	189	189	44.2	189
OSP - 30 (E) (8X6)	20	V-8	26	2230	189	189	46.1	189
OSP - 30 (E) (8X6)	21	V-8	30	2326	189	189	48.0	189
OSP - 30 (E) (8X6)	22	V-8	30	2422	189	189	50.0	189
OSP - 30 (E) (8X6)	23	V-8	30	2518	189	189	51.9	189
OSP - 30 (E) (8X6)	24	V-8	37	2614	189	189	53.8	189
OSP - 30 (E) (8X6)	25	V-8	37	2710	189	189	55.8	189
OSP - 30 (E) (8X6)	26	V-8	37	2806	189	189	57.7	189
OSP - 30 (E) (8X6)	27	V-8	37	2902	189	189	59.6	189
OSP - 30 (E) (8X6)	28	V-8	37	2998	189	189	61.6	189
OSP - 30 (E) (8X6) (S)	29	V-8	45					189
OSP - 30 (E) (8X6) (S)	31	V-8	45					189

FIGURE

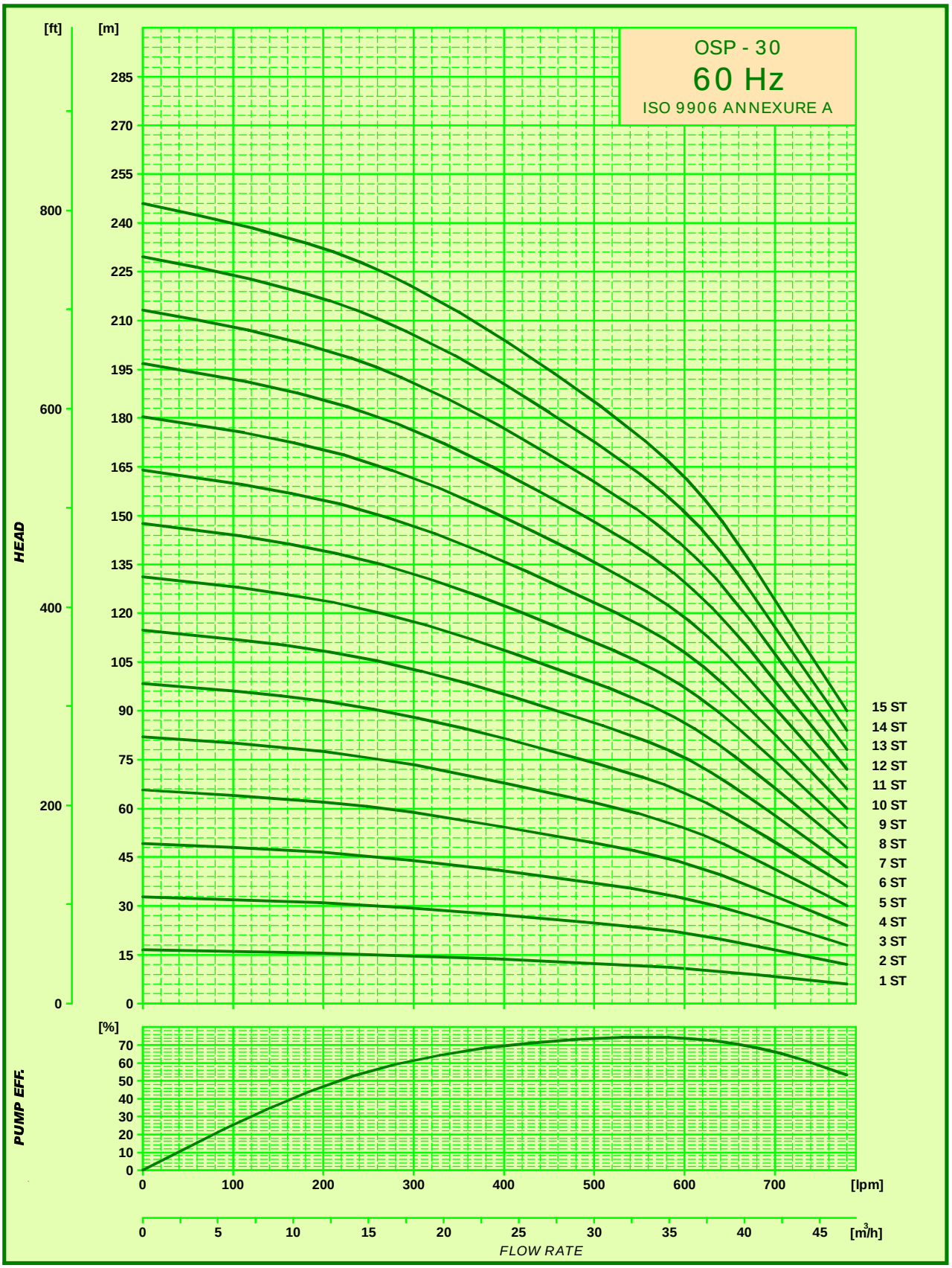


(S) Means Pump with Sleeve (External Jacket)

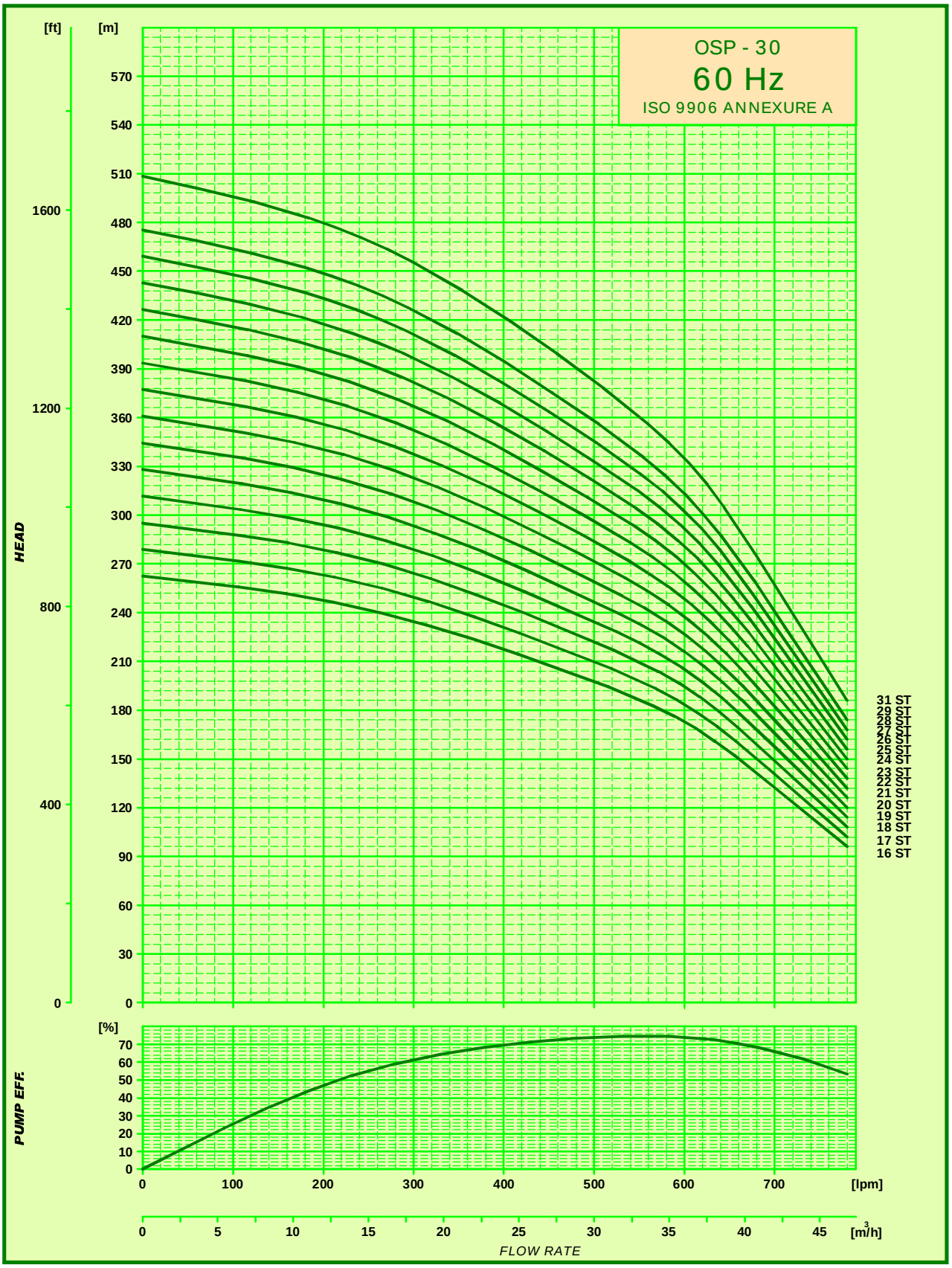
E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE

E**: MAX.DIA OF PUMP WITH TWO MOTOR CABLE

Performance Curves



Performance Curves



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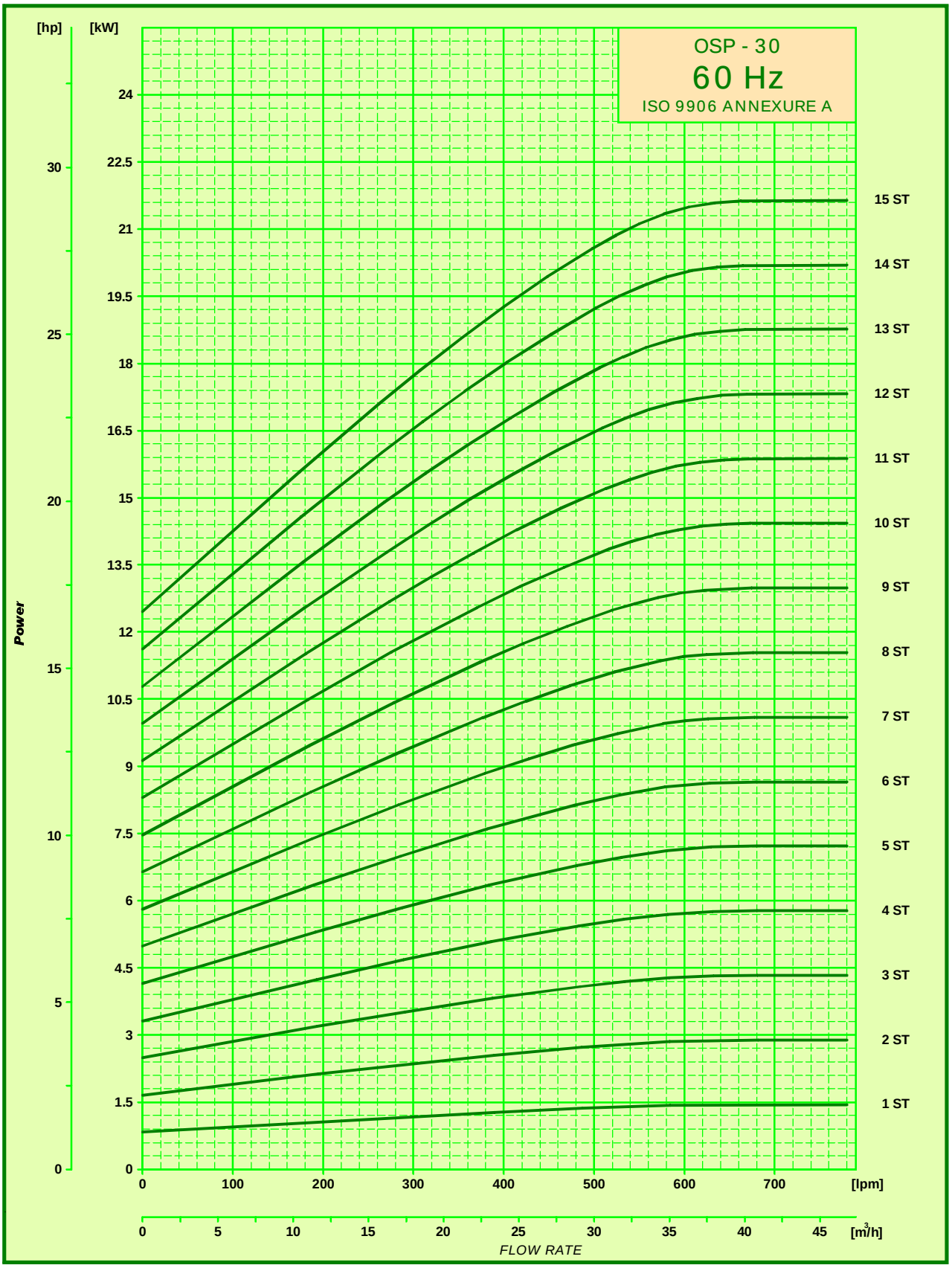

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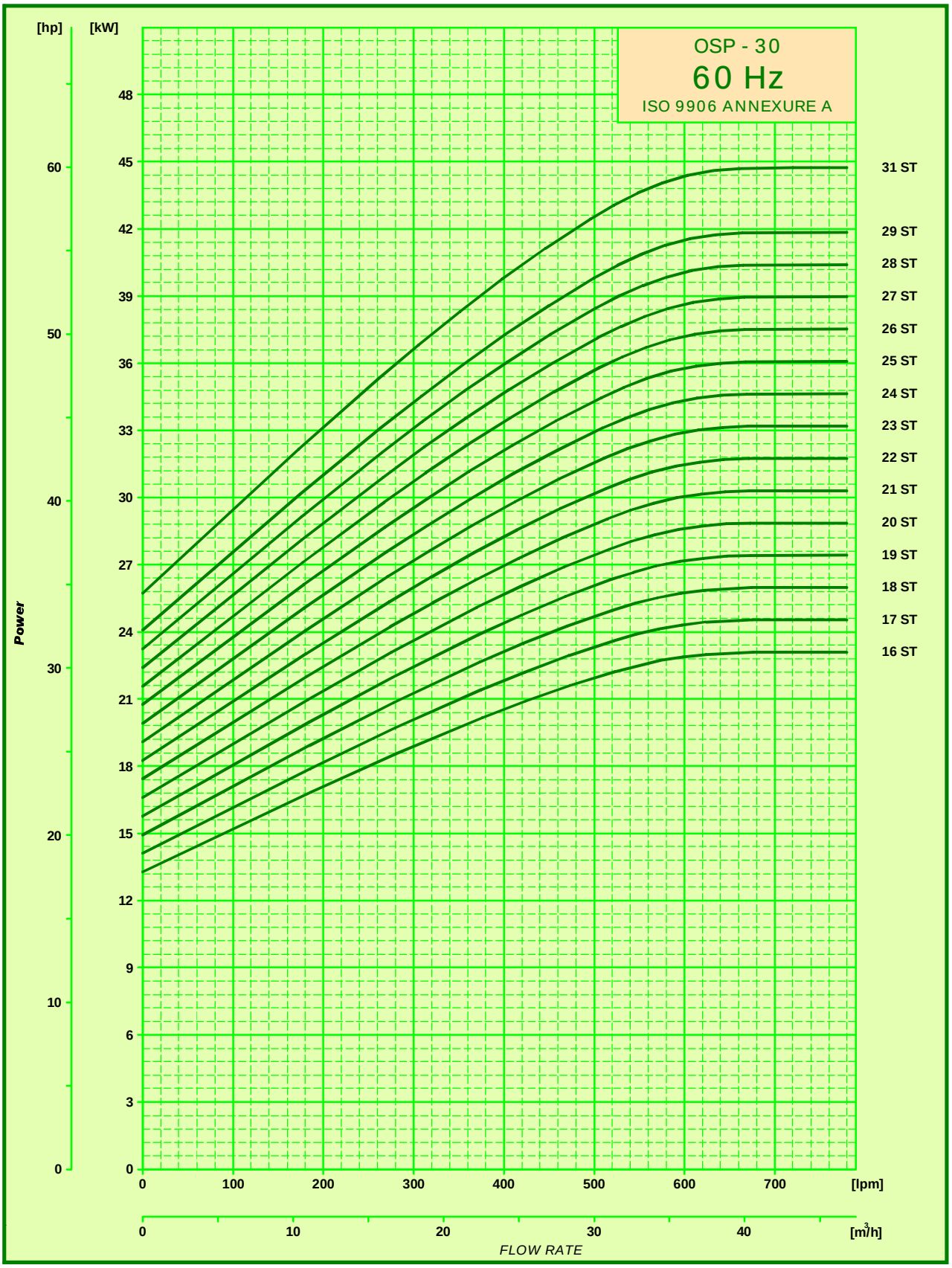


Performance Table

OSP- 46

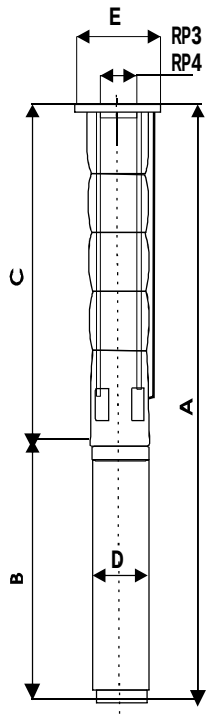
MODEL	K.W.	H.P.	Stage	Motor joining	Out let Size in inches	Discharge						
						M^3/hr.	0	28.8	43.2	50.4	**57.6**	72
						LPM	0	480	720	840	**960**	1200
OSP-46 (E) (4x6)	1.5	2	1-B	V-4	4"	HEAD IN METERS	14	12	10	8	**6**	1
OSP-46 (E) (4x6)	2.2	3	1-A	V-4	4"		16	14	12	10	**8**	3
OSP-46 (E) (4x6)	3	4	1	V-4	4"		19.2	16.7	14.4	13	**11.6**	7.2
OSP-46 (E) (4x6)	3.7	5	2-AB	V-4	4"		29	25	22	18	**14**	4
OSP-46 (E) (4x6)	5.5	7.5	2	V-4	4"		38	33	29	26	**23**	14
OSP-46 (E) (4x6)	5.5	7.5	3-BB	V-4	4"		46	40	34	29	**24**	8
OSP-46 (E) (4x6)	7.5	10	3	V-4	4"		58	50	43	39	**35**	22
OSP-46 (E) (4x6)	7.5	10	4-BC	V-4	4"		64	54	47	40	**34**	13
OSP - 46 (E)	5.5	7.5	2	V-6	4"		38	33	29	26	**23**	14
OSP - 46 (E)	5.5	7.5	3-BB	V-6	4"		46	40	34	29	**24**	8
OSP - 46 (E)	7.5	10	3	V-6	4"		58	50	43	39	**35**	22
OSP - 46 (E)	7.5	10	4-BC	V-6	4"		54	54	47	40	**33**	7
OSP - 46 (E)	9.3	12.5	4	V-6	4"		77	67	58	52	**46**	29
OSP - 46 (E)	11	15	5-C	V-6	4"		90	77	64	57	**50**	24
OSP - 46 (E)	13	17.5	5	V-6	4"		96	84	72	65	**58**	36
OSP - 46 (E)	13	17.5	6-A	V-6	4"		110	97	83	73	**66**	34
OSP - 46 (E)	15	20	6	V-6	4"		115	100	86	78	**70**	43
OSP - 46 (E)	15	20	7-C	V-6	4"		127	110	94	85	**75**	37
OSP - 46 (E)	18.5	25	7	V-6	4"		134	117	101	91	**81**	50
OSP - 46 (E)	18.5	25	8	V-6	4"		154	134	115	104	**93**	58
OSP - 46 (E)	22	30	9	V-6	4"		173	150	130	117	**104**	65
OSP - 46 (E)	22	30	10	V-6	4"		192	167	144	130	**116**	72
OSP - 46 (E) (8x6)	26	35	11	V-8	4"		211	184	158	143	**128**	79
OSP - 46 (E) (8x6)	30	40	12	V-8	4"		230	200	173	156	**139**	86
OSP - 46 (E) (8x6)	30	40	13	V-8	4"		250	217	187	169	**151**	94
OSP - 46 (E) (8x6)	37	50	14	V-8	4"		269	234	202	182	**162**	101
OSP - 46 (E) (8x6)	37	50	15	V-8	4"		288	251	216	195	**174**	108
OSP - 46 (E) (8x6)	37	50	16	V-8	4"		307	267	230	208	**186**	115
OSP - 46 (E) (8x6)	37	50	17	V-8	4"		326	284	245	221	**197**	122
OSP - 46 (E) (8x6)	45	60	18	V-8	4"		346	301	259	234	**209**	130
OSP - 46 (E) (8x6)	45	60	19	V-8	4"		365	317	274	247	**220**	137
OSP - 46 (E) (8x6)	45	60	20	V-8	4"		384	334	288	260	**232**	144
OSP - 46 (E) (8x6)	55	75	22	V-8	4"		422	367	317	286	**255**	158
OSP - 46 (E) (8x6)	55	75	24	V-8	4"		461	401	346	312	**278**	173

Technical Data

OSP - 46

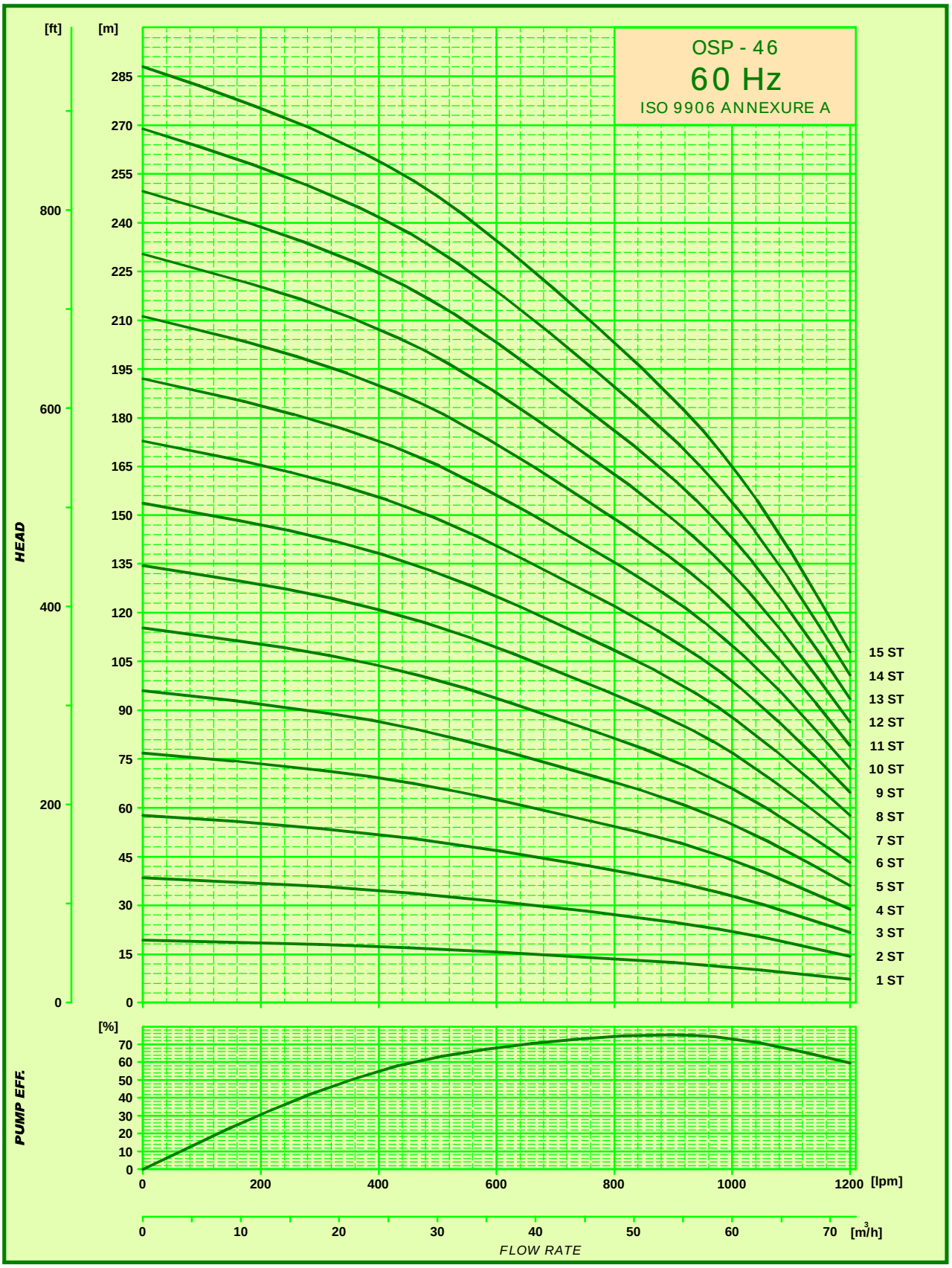
PUMP MODEL	STAGE	MOTOR		PUMP				Motor
		Joining Motor	Power (KW)	Length C (mm)	E* (mm)	E** (mm)	Weight Kg	OD D
OSP - 46 (E) (4x6)	1-B	**V-4**	1.5	393	145		6.8	97.5
OSP - 46 (E) (4x6)	1-A	V-4	2.2	393	145		6.8	97.5
OSP - 46 (E) (4x6)	1	V-4	3	506	145		6.8	97.5
OSP - 46 (E) (4x6)	2-AB	V-4	3.7	619	145		9	97.5
OSP - 46 (E) (4x6)	2	V-4	5.5	619	145		9	97.5
OSP - 46 (E) (4x6)	3-BB	V-4	5.5	619	145		11.4	97.5
OSP - 46 (E) (4x6)	3	V-4	7.5	619	145		11.4	97.5
OSP - 46 (E) (4x6)	4-BC	V-4	7.5	732	145		13.7	97.5
OSP - 46 (E)	2	**V-6**	5.5	506	147	152	9.1	144
OSP - 46 (E)	3-BB	V-6	5.5	619	147	152	11.4	144
OSP - 46 (E)	3	V-6	7.5	619	147	152	11.4	144
OSP - 46 (E)	4-BC	V-6	7.5	732	147	152	13.8	144
OSP - 46 (E)	4	V-6	9.3	732	147	152	13.8	144
OSP - 46 (E)	5-C	V-6	11	845	147	152	16.1	144
OSP - 46 (E)	5	V-6	13	845	147	152	16.1	144
OSP - 46 (E)	6-A	V-6	13	958	147	152	18.4	144
OSP - 46 (E)	6	V-6	15	958	147	152	18.4	144
OSP - 46 (E)	7-C	V-6	15	1071	147	152	20.7	144
OSP - 46 (E)	7	V-6	18.5	1071	147	152	20.7	144
OSP - 46 (E)	8	V-6	18.5	1184	147	152	23.0	144
OSP - 46 (E)	9	V-6	22	1297	147	152	25.4	144
OSP - 46 (E)	10	V-6	22	1410	147	152	27.7	144
OSP - 46 (E) (8 X 6)	11	**V-8**	26	1558	189	189	33.3	189
OSP - 46 (E) (8 X 6)	12	V-8	30	1671	189	189	35.6	189
OSP - 46 (E) (8 X 6)	13	V-8	30	1784	189	189	37.9	189
OSP - 46 (E) (8 X 6)	14	V-8	37	1897	189	189	40.2	189
OSP - 46 (E) (8 X 6)	15	V-8	37	2010	189	189	42.6	189
OSP - 46 (E) (8 X 6)	16	V-8	37	2123	189	189	44.9	189
OSP - 46 (E) (8 X 6)	17	V-8	37	2236	189	189	47.2	189
OSP - 46 (E) (8 X 6)	18	V-8	45	2349	189	189	49.5	189
OSP - 46 (E) (8 X 6)	19	V-8	45	2462	189	189	51.8	189
OSP - 46 (E)(8 X 6) (S)	20	V-8	45					189
OSP - 46 (E)(8 X 6) (S)	22	V-8	55					189
OSP - 46 (E)(8 X 6) (S)	24	V-8	55					189

FIGURE

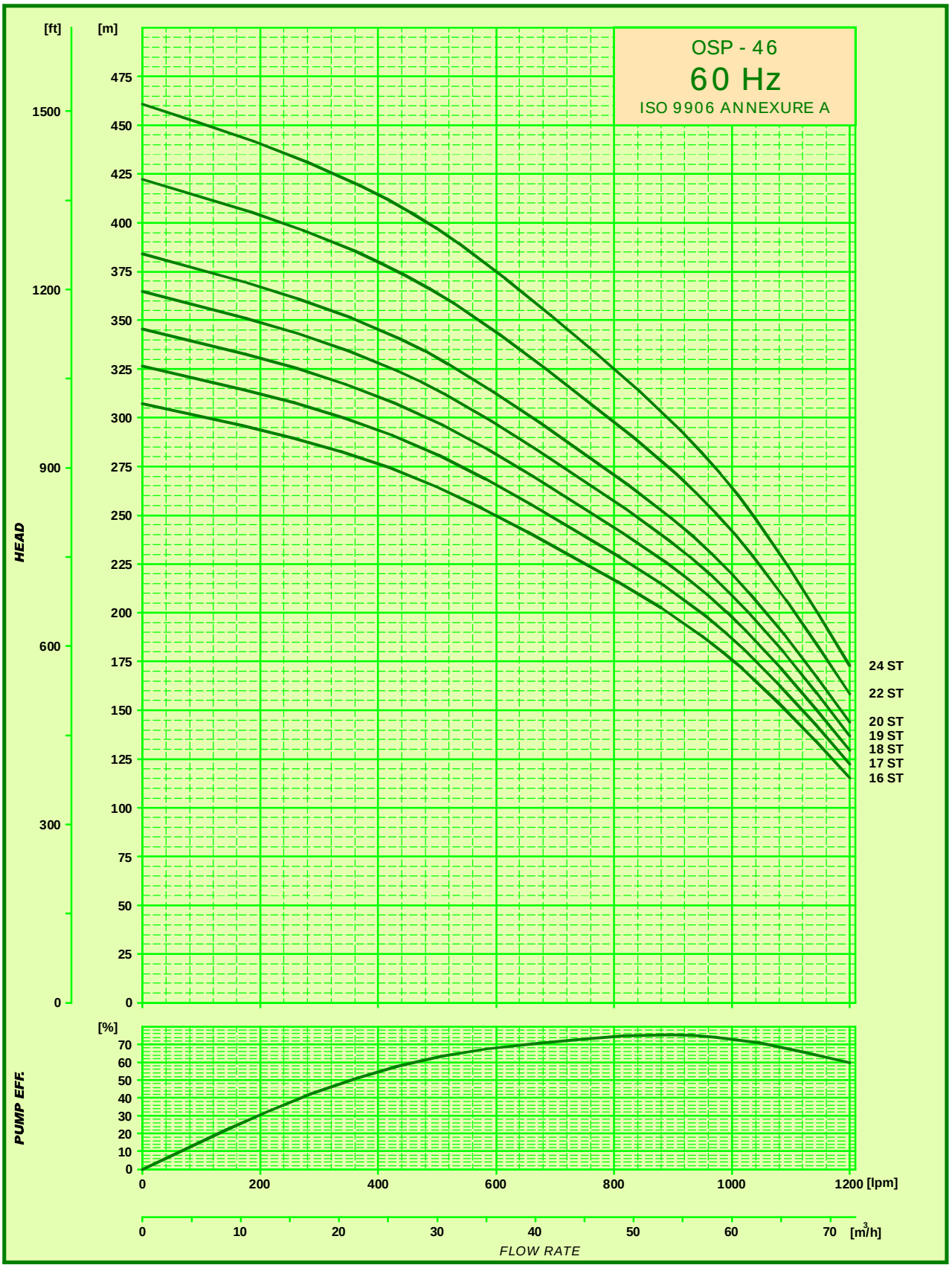


(S) means Pump with Sleeve (External Jacket)
E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE
E**: MAX.DIA OF PUMP WITH TWO MOTOR CABLE

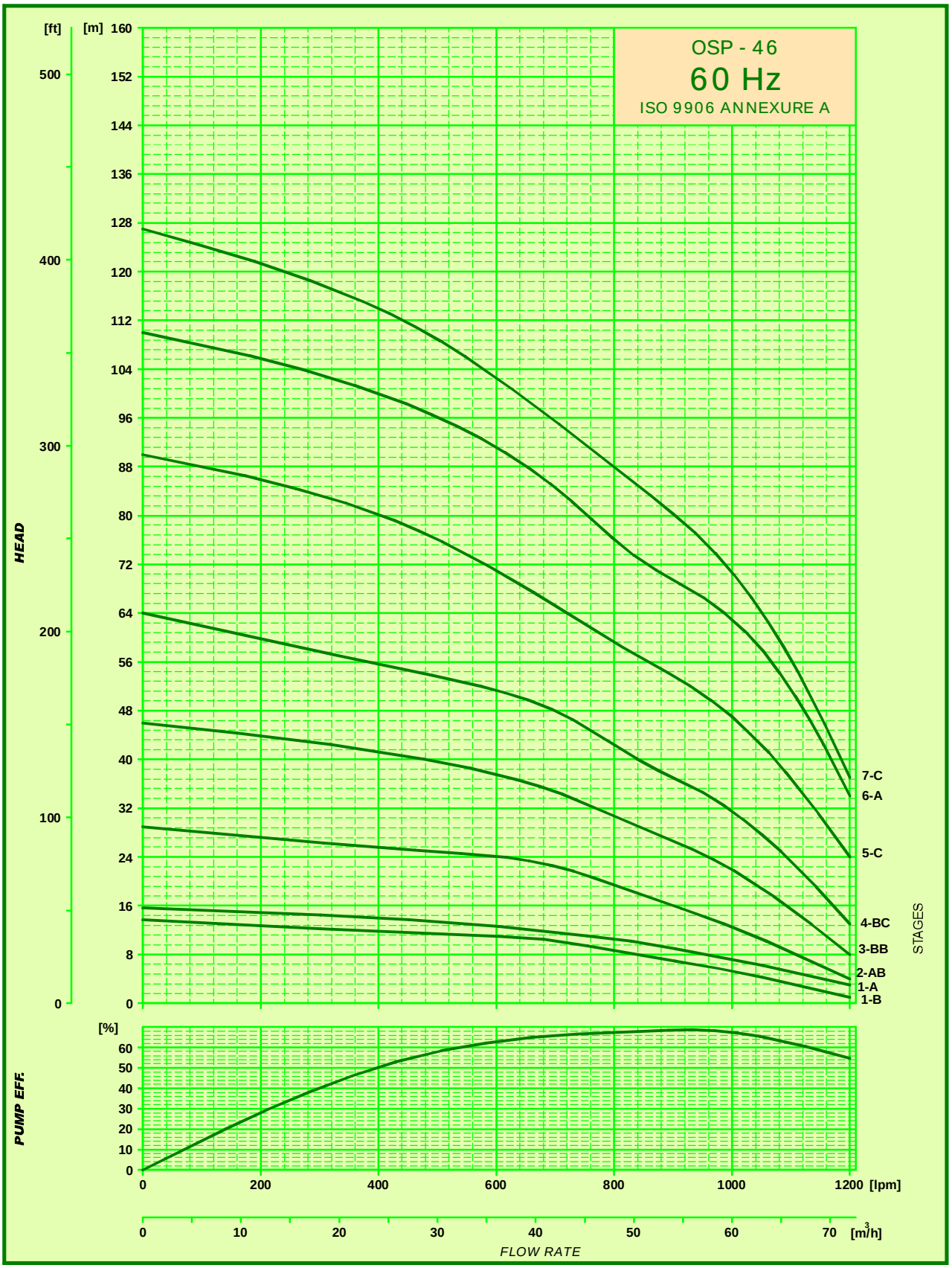
Performance Curves



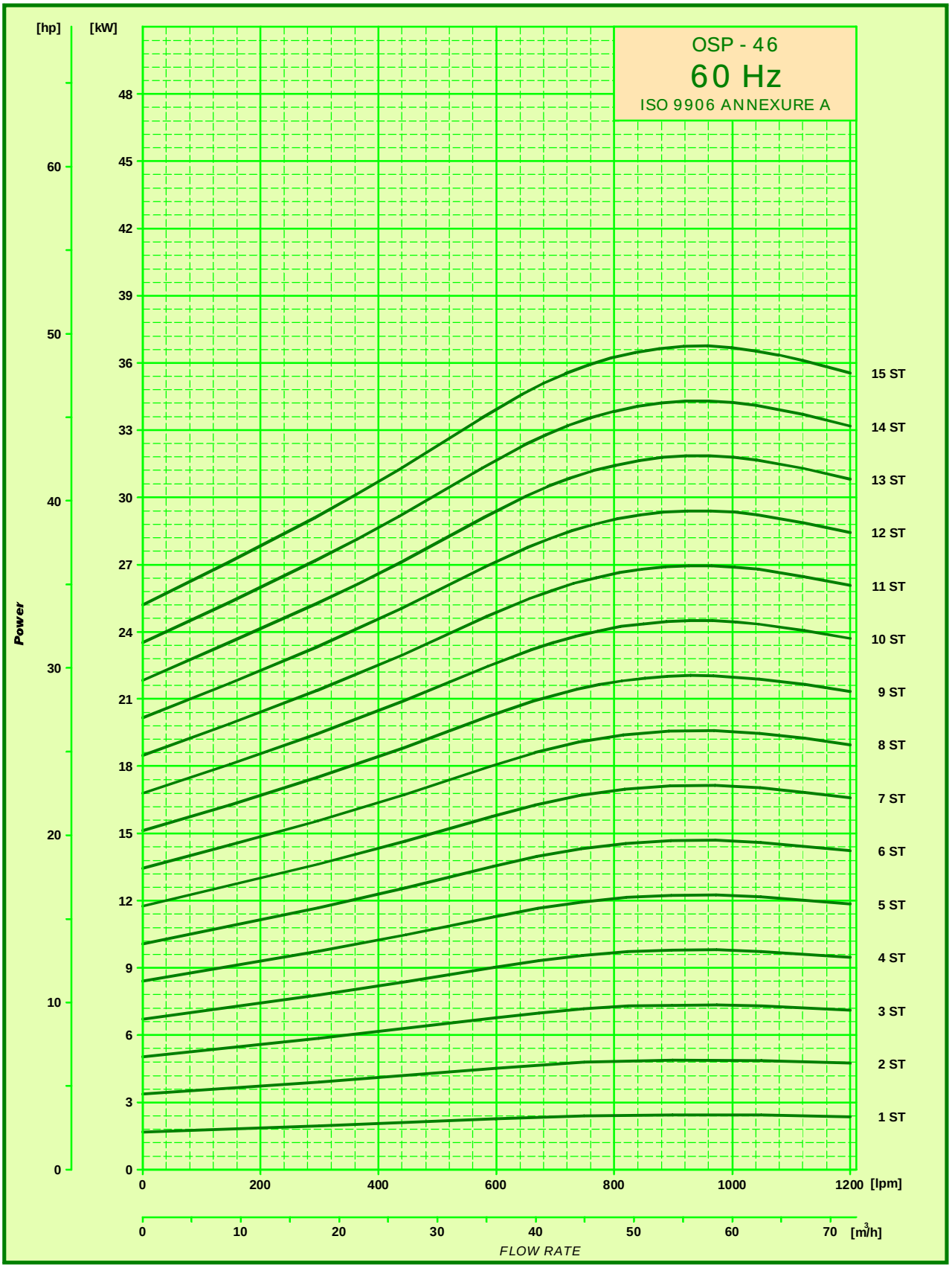
Performance Curves



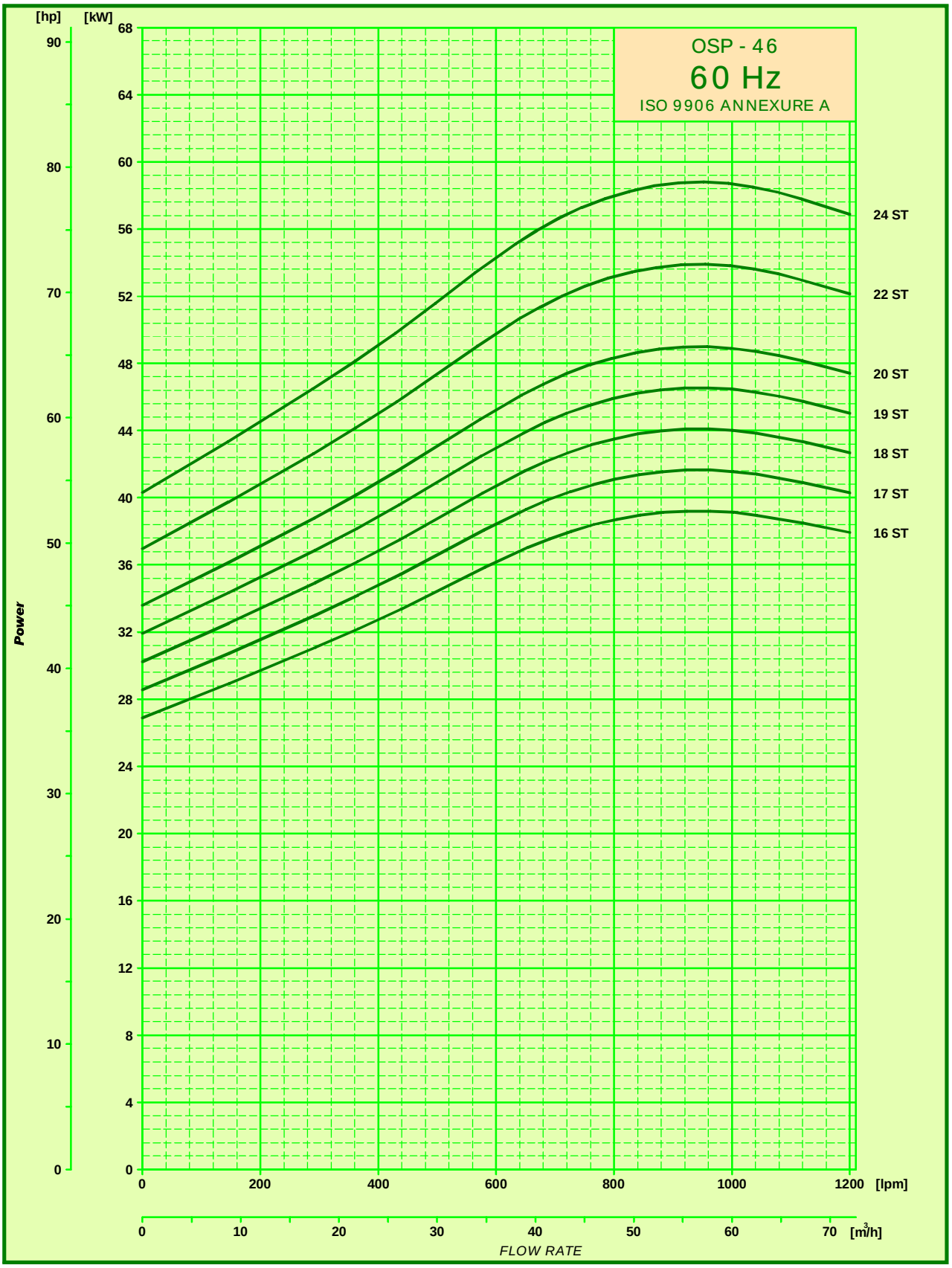
Performance Curves



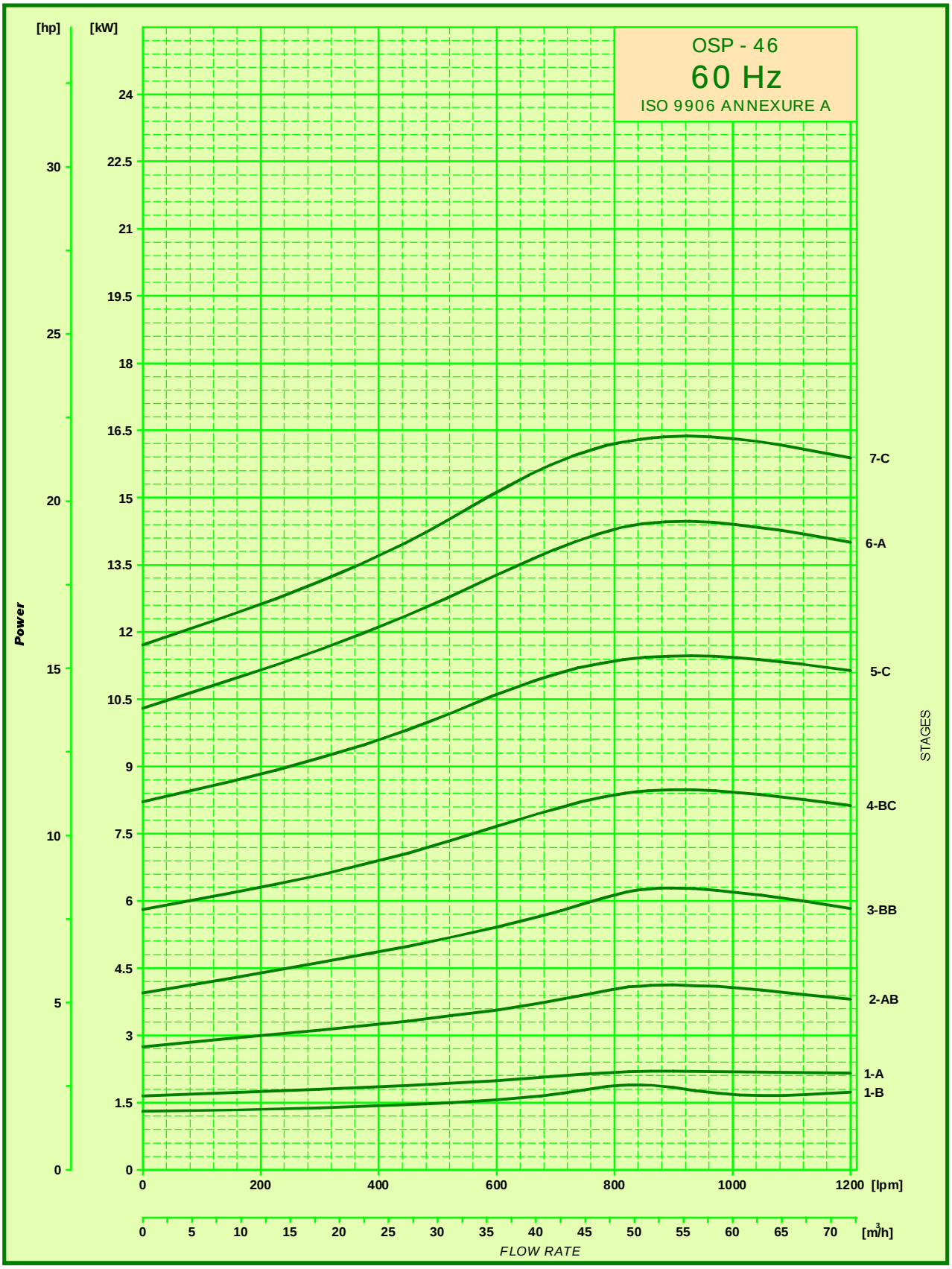
Power Curves



Power Curves



Power Curves



Performance Table

OSP- 60

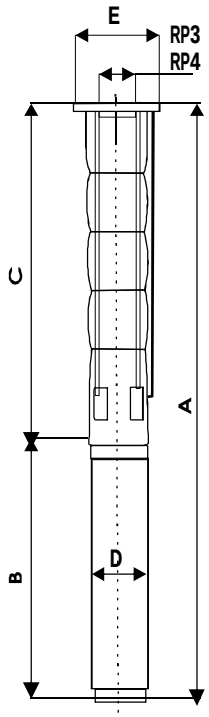
MODEL	K.W.	H.P.	Stage	Motor joining	Out let Size in inches	Discharge						
						M^3/hr.	0	28.8	43.2	57.6	**72**	86.4
						LPM	0	480	720	960	**1200**	1440
OSP-60 (E) (4x6)	2.2	3	1-B	V-4	4"	HEAD IN METERS	11	10	7	6	**3**	1
OSP-60 (E) (4x6)	3	4	1-A	V-4	4"		16	13	10	9	**5**	1
OSP-60 (E) (4x6)	3.7	5	1	V-4	4"		20	18	16	14	**11**	8
OSP-60 (E) (4x6)	3.7	5	2-BB	V-4	4"		21	20	14	12	**6**	2
OSP - 60 (E)	5.5	7.5	2	V-4	4"		40	37	32	27	**22**	16
OSP - 60 (E)	7.5	10	3-A	V-4	4"		56	50	42	35	**27**	17
OSP - 60 (E)	5.5	7.5	2	V-6	4"		40	37	32	27	**22**	16
OSP - 60 (E)	7.5	10	3-A	V-6	4"		56	50	42	35	**27**	17
OSP - 60 (E)	9.3	12.5	3	V-6	4"		61	55	48	41	**33**	24
OSP - 60 (E)	9.3	12.5	4-AA	V-6	4"		72	63	52	44	**33**	17
OSP - 60 (E)	11	15	4	V-6	4"		81	74	64	54	**44**	32
OSP - 60 (E)	13	17.5	5	V-6	4"		101	92	80	68	**56**	40
OSP - 60 (E)	15	20	6-B	V-6	4"		111	102	87	74	**59**	41
OSP - 60 (E)	18.5	25	6	V-6	4"		121	110	96	81	**67**	47
OSP - 60 (E)	18.5	25	7	V-6	4"		141	129	112	95	**78**	55
OSP - 60 (E)	22	30	8	V-6	4"		162	147	128	108	**89**	63
OSP - 60 (E)	22	30	9-B	V-6	4"		172	157	135	114	**92**	64
OSP-60 (E) (8X6)	26	35	9	V-8	4"		182	166	144	122	**100**	71
OSP-60 (E) (8X6)	26	35	10	V-8	4"		202	184	160	135	**111**	79
OSP-60 (E) (8X6)	30	40	11	V-8	4"		222	202	176	149	**122**	87
OSP-60 (E) (8X6)	37	50	12	V-8	4"		242	221	192	162	**133**	95
OSP-60 (E) (8X6)	37	50	13	V-8	4"		263	239	208	176	**144**	103
OSP-60 (E) (8X6)	37	50	14	V-8	4"		283	258	224	189	**155**	111
OSP-60 (E) (8X6)	45	60	15	V-8	4"		303	276	240	203	**167**	119
OSP-60 (E) (8X6)	45	60	16	V-8	4"		323	294	256	216	**178**	126
OSP-60 (E) (8X6)	45	60	17	V-8	4"		343	313	272	230	**189**	134
OSP-60 (E) (8X6)	55	75	18	V-8	4"		364	331	288	243	**200**	142
OSP-60 (E) (8X6)	55	75	19	V-8	4"		384	350	304	257	**211**	150
OSP-60 (E) (8X6)	55	75	20	V-8	4"		404	368	320	270	**222**	158
OSP-60 (E) (8X6)	67	90	21	V-8	4"		424	386	336	284	**233**	166

Technical Data

OSP - 60

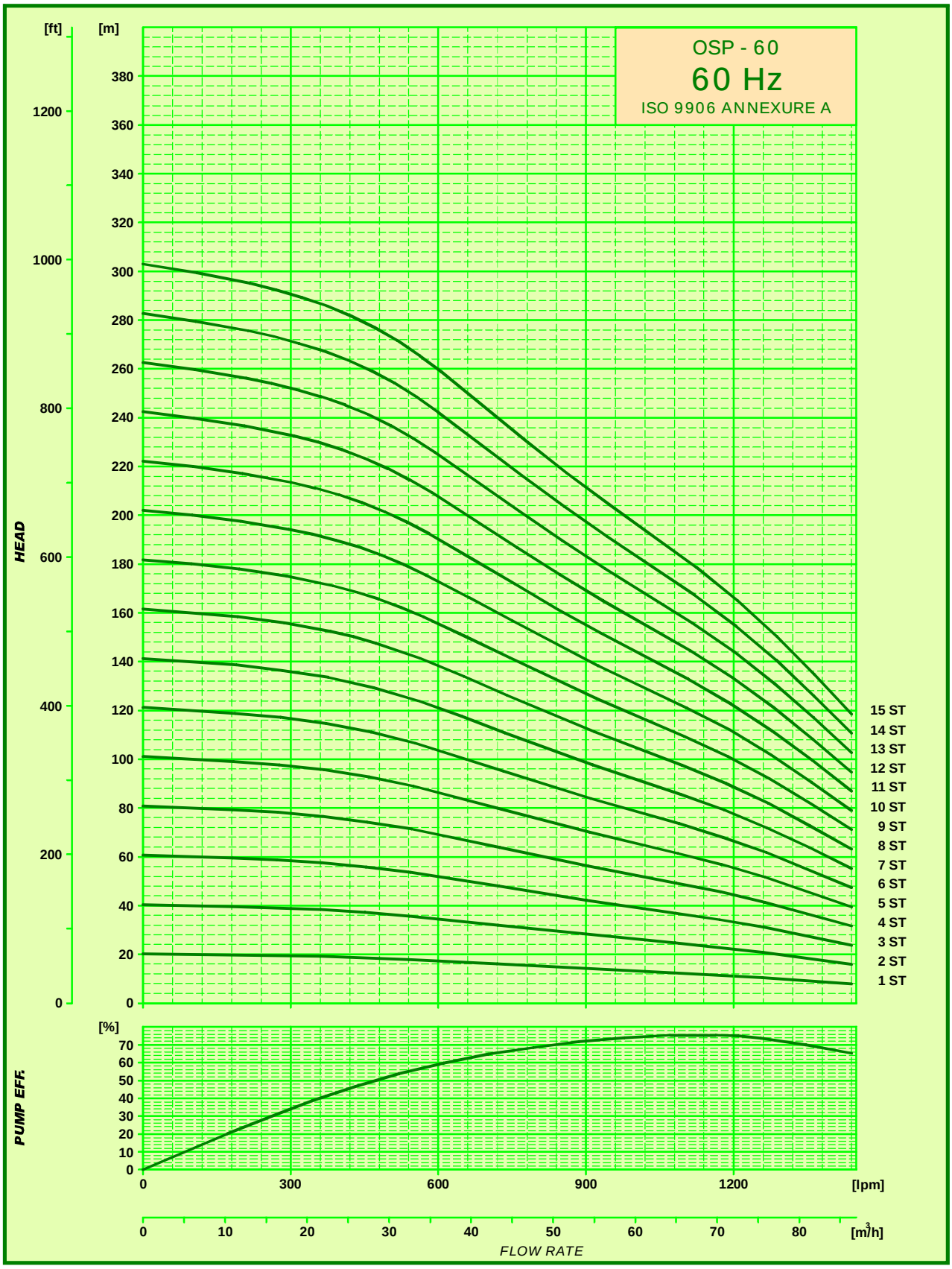
PUMP MODEL	STAGE	MOTOR		PUMP				Motor
		Joining Motor	Power (KW)	Length C (mm)	E* (mm)	E** (mm)	Weight Kg	OD D
OSP - 60 (E) (4x6)	1-B	**V-4**	2.2	393	145		6.8	97.5
OSP - 60 (E) (4x6)	1-A	V-4	3	393	145		6.8	97.5
OSP - 60 (E) (4x6)	1	V-4	3.7	506	145		6.8	97.5
OSP - 60 (E) (4x6)	2-BB	V-4	3.7	506	145		9	97.5
OSP - 60 (E) (4x6)	2	V-4	5.5	506	145		9	97.5
OSP - 60 (E) (4x6)	3-A	V-4	7.5	619	145		11.4	97.5
OSP - 60 (E)	2	**V-6**	5.5	506	147	152	9.1	144
OSP - 60 (E)	3-A	V-6	7.5	619	147	152	11.5	144
OSP - 60 (E)	3	V-6	9.3	619	147	152	11.5	144
OSP - 60 (E)	4-AA	V-6	9.3	1184	147	152	13.8	144
OSP - 60 (E)	4	V-6	11	1184	147	152	13.8	144
OSP - 60 (E)	5	V-6	13	845	147	152	16.1	144
OSP - 60 (E)	6-B	V-6	15	1297	147	152	18.4	144
OSP - 60 (E)	6	V-6	18.5	958	147	152	18.4	144
OSP - 60 (E)	7	V-6	18.5	1071	147	152	20.7	144
OSP - 60 (E)	8	V-6	22	1184	147	152	23.0	144
OSP - 60 (E)	9-B	V-6	22	1297	147	152	25.4	144
OSP - 60 (E) (8X6)	9	**V-8**	26	1332	189	189	28.6	189
OSP - 60 (E) (8X6)	10	V-8	26	1445	189	189	31.0	189
OSP - 60 (E) (8X6)	11	V-8	30	1558	189	189	33.3	189
OSP - 60 (E) (8X6)	12	V-8	37	1671	189	189	35.6	189
OSP - 60 (E) (8X6)	13	V-8	37	1784	189	189	37.9	189
OSP - 60 (E) (8X6)	14	V-8	37	1897	189	189	40.2	189
OSP - 60 (E) (8X6)	15	V-8	45	2010	189	189	42.6	189
OSP - 60 (E) (8X6)	16	V-8	45	2123	189	189	44.9	189
OSP - 60 (E) (8X6)	17	V-8	45	2236	189	189	47.2	189
OSP - 60 (E) (8X6)	18	V-8	55	2349	189	189	49.5	189
OSP - 60 (E) (8X6)	19	V-8	55	2462	189	189	51.8	189
OSP - 60 (E) (8X6)	20	V-8	55	2575	189	189	54.2	189
OSP - 60 (E) (8X6)	21	V-8	67	2688	189	189	56.5	189

FIGURE

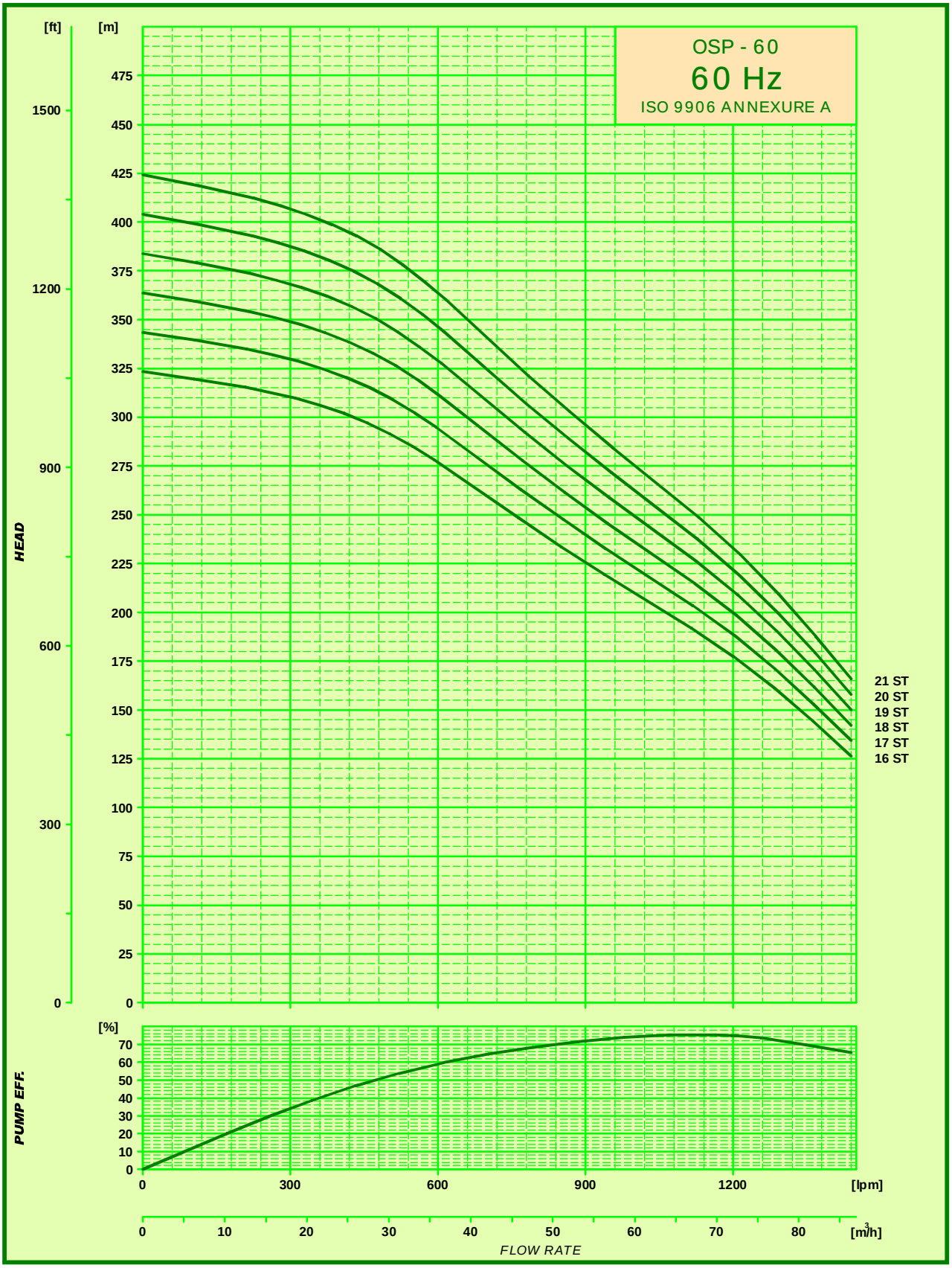


E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE
E**: MAX.DIA OF PUMP WITH TWO MOTOR CABLE

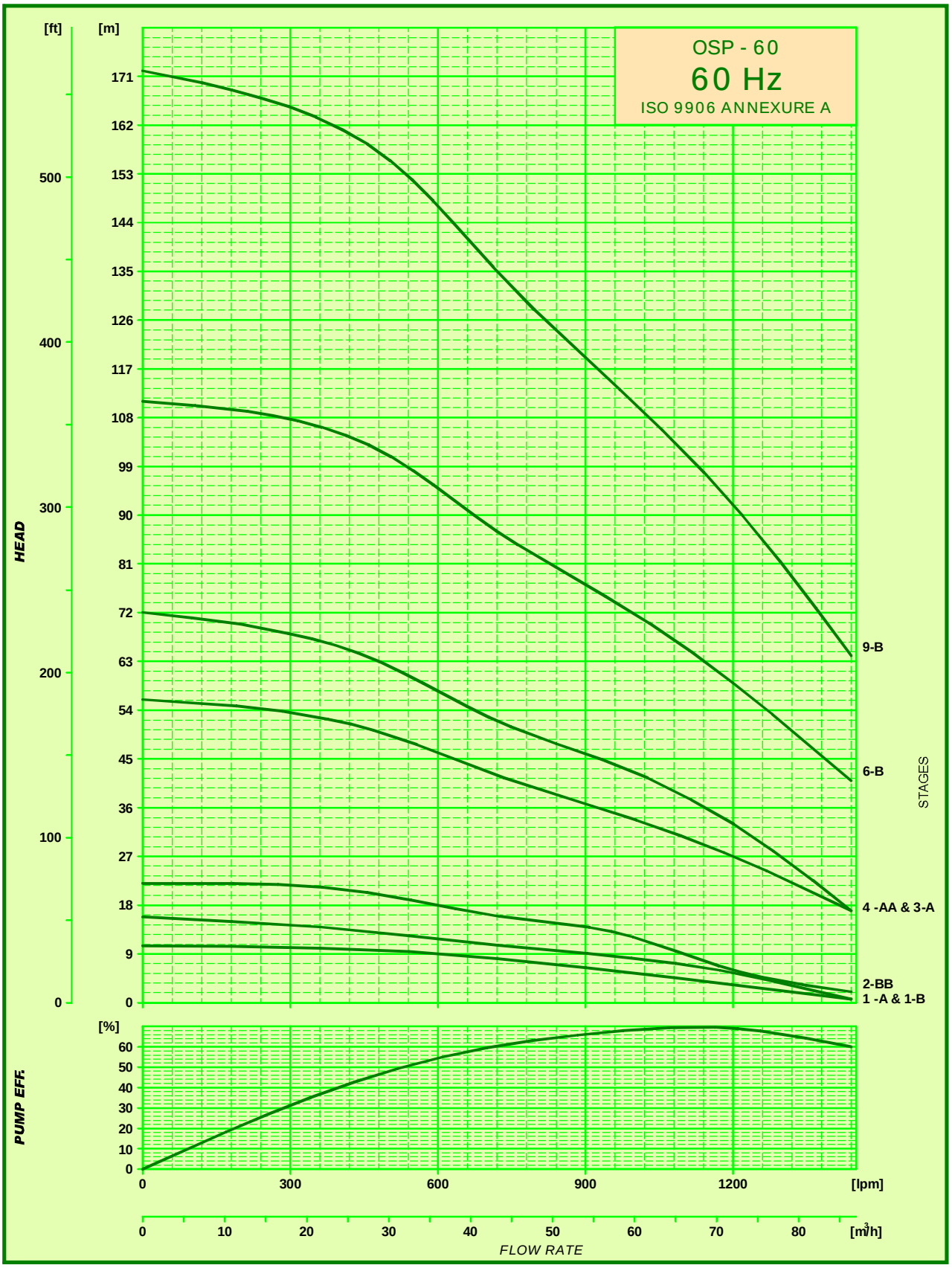
Performance Curves



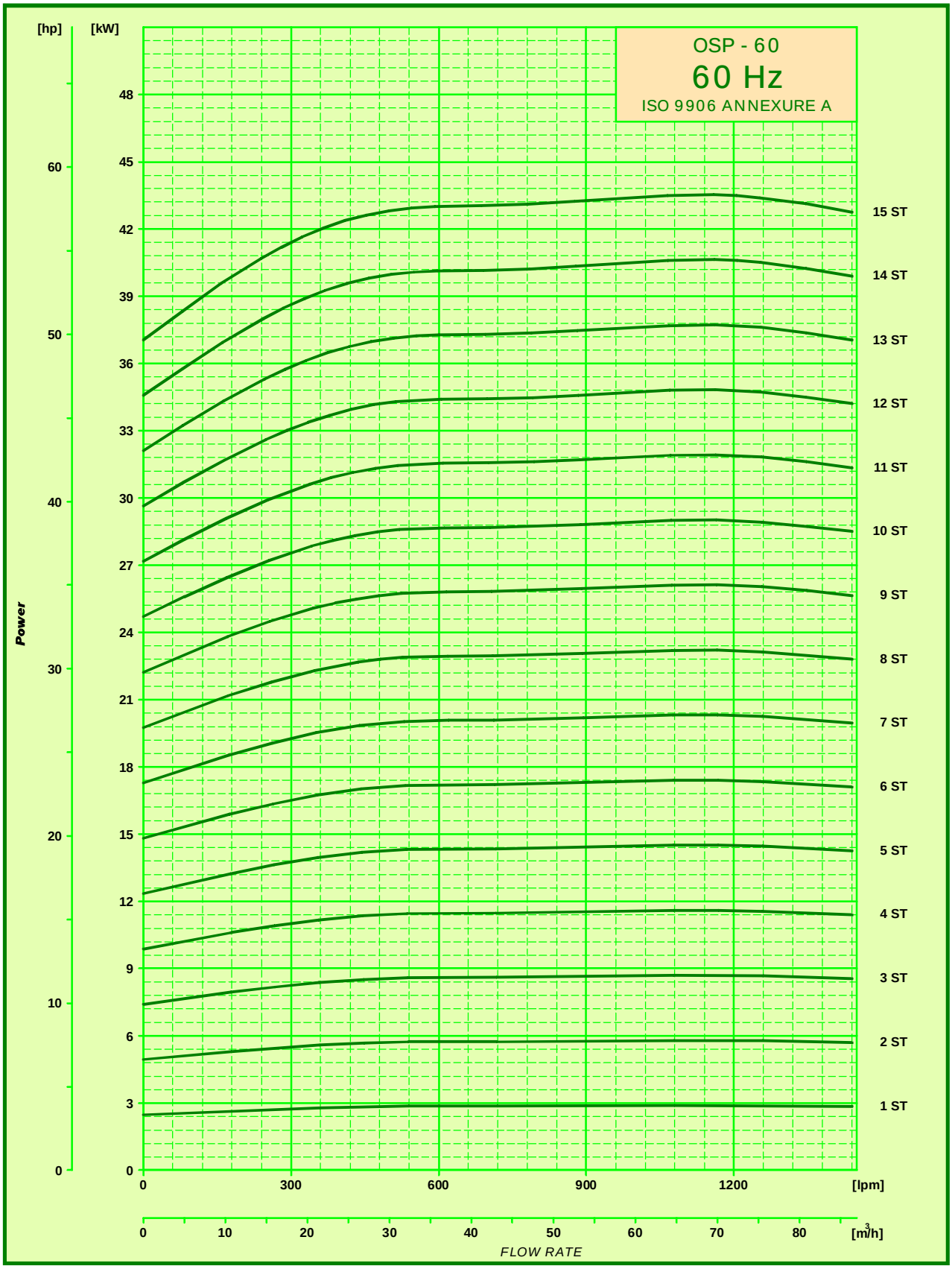
Performance Curves



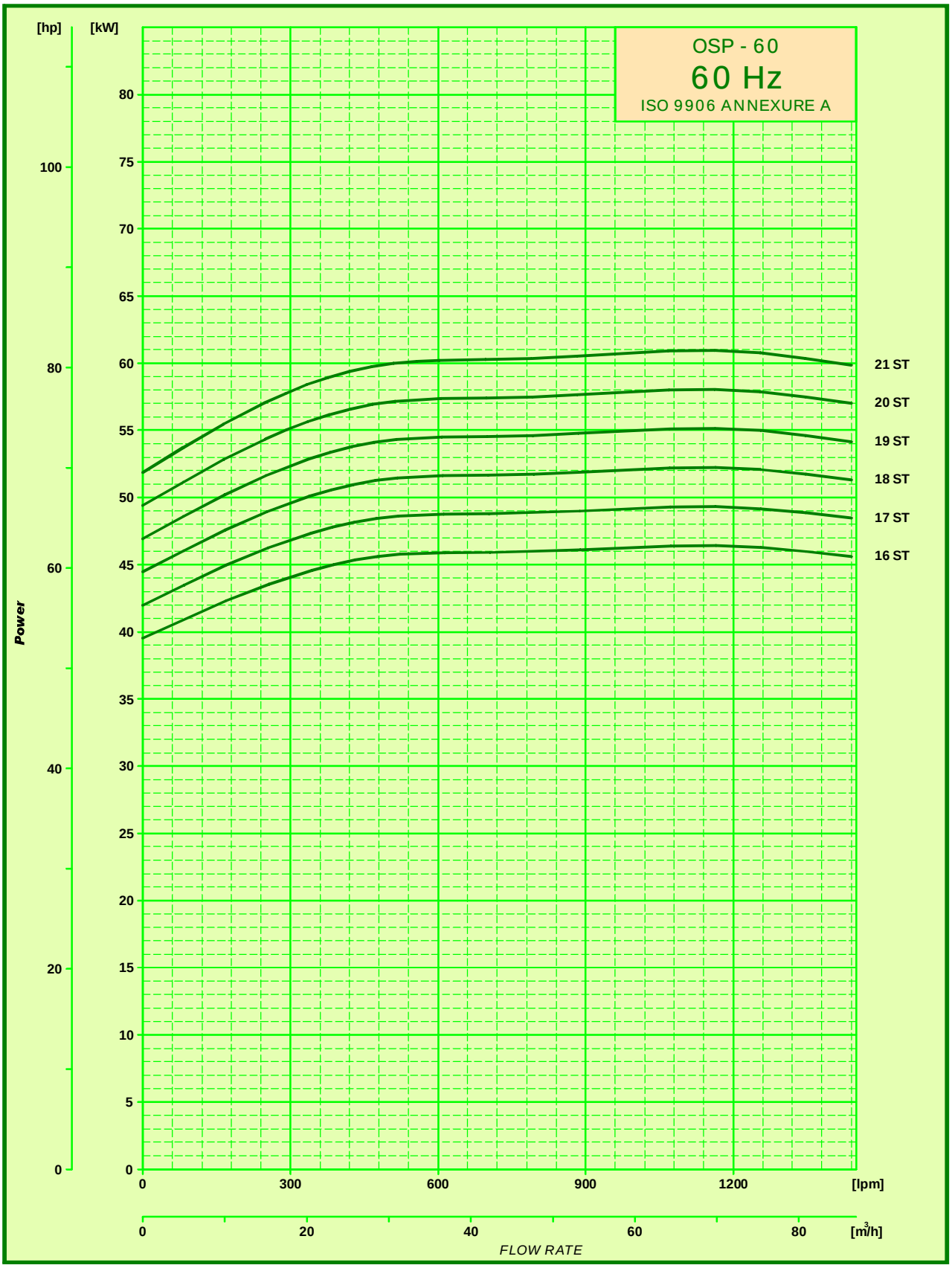
Performance Curves



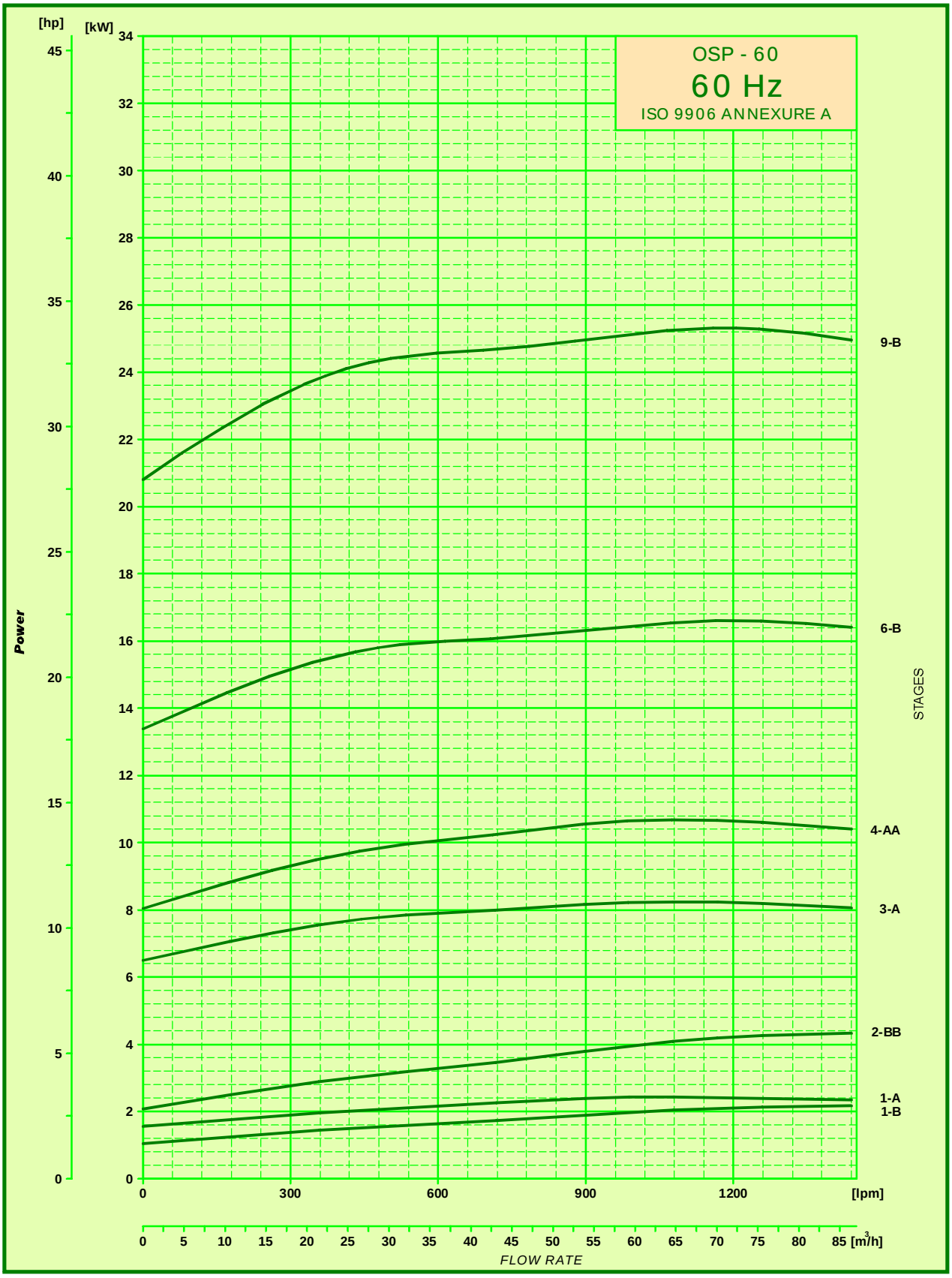
Power Curves



Power Curves



Power Curves



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 rang up to 346 meters
- Flow range up to 120 M^3

Operating Condition

- Maximum liquid temperature : 45ºc
- Maximum quantity of sand 50 gm / m^3
- 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.

Special Construction On Request

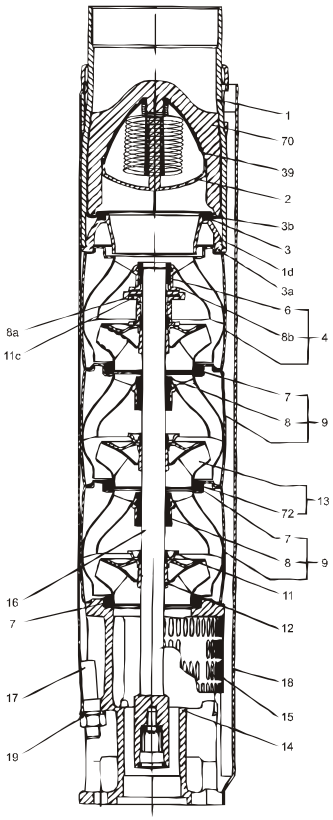
Also available in NPT connection

Material of Construction

MATERIAL SPECIFICATION OSP - 77/95

S.No.	Components	Material	Standard
1	Valve complete	Stainless steel	304
Id	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

OSP- 77

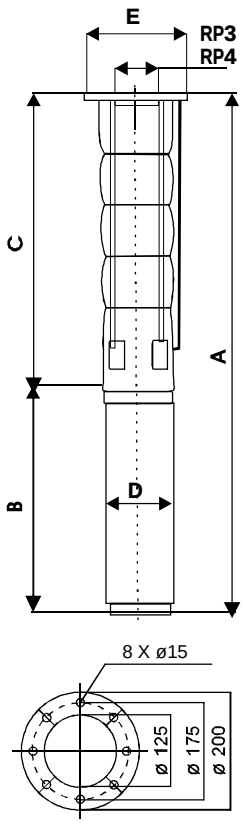
MODEL	K.W.	H.P.	Stage	Motor joining	Out let Size in inches	Discharge						
						M^3/hr.	0	57.6	72	**86.4**	101	115
						LPM	0	960	1200	**1440**	1680	1920
OSP-77 (E) (6x8)	5.5	7.5	1	V-6	5"	HEAD IN METERS	29	23	21	**18**	16	11
OSP-77 (E) (6x8)	7.5	10	2-AB	V-6	5"		40	29	25	**21**	13	7
OSP-77 (E) (6x8)	9.3	12.5	2-A	V-6	5"		50	39	35	**30**	23	17
OSP-77 (E) (6x8)	11	15	2	V-6	5"		58	46	41	**37**	31	22
OSP-77 (E) (6x8)	13	17.5	3-AA	V-6	5"		71	55	49	**42**	31	22
OSP-77 (E) (6x8)	15	20	3-A	V-6	5"		79	62	55	**49**	39	28
OSP-77 (E) (6x8)	18.5	25	3	V-6	5"		86	69	62	**55**	47	34
OSP-77 (E) (6x8)	18.5	25	4-B	V-6	5"		105	82	73	**64**	52	35
OSP-77 (E) (6x8)	22	30	4	V-6	5"		115	92	83	**74**	62	45
OSP-77 (E) (6x8)	22	30	5-BB	V-6	5"		124	95	84	**73**	57	37
OSP - 77 (E)	26	35	5	V-8	5"		144	115	104	**92**	78	56
OSP - 77 (E)	30	40	6-B	V-8	5"		163	128	115	**101**	83	61
OSP - 77 (E)	37	50	6	V-8	5"		173	137	124	**110**	94	67
OSP - 77 (E)	37	50	7	V-8	5"		202	160	145	**129**	109	78
OSP - 77 (E)	45	60	8	V-8	5"		230	183	166	**147**	125	90
OSP - 77 (E)	55	75	9	V-8	5"		259	206	186	**166**	140	101
OSP - 77 (E)	55	75	10	V-8	5"		288	229	207	**184**	156	112
OSP - 77 (E)	67	90	11	V-8	5"		317	252	228	**202**	172	123
OSP - 77 (E)	67	90	12	V-8	5"		346	275	248	**221**	187	134
OSP - 77 (E)	75	100	13	V-8	5"		374	298	269	**239**	203	146
OSP - 77 (E)	93	125	14	V-8	5"		403	321	290	**258**	218	157
OSP - 77 (E)	93	125	15	V-8	5"		432	344	311	**276**	234	168

Technical Data

OSP - 77

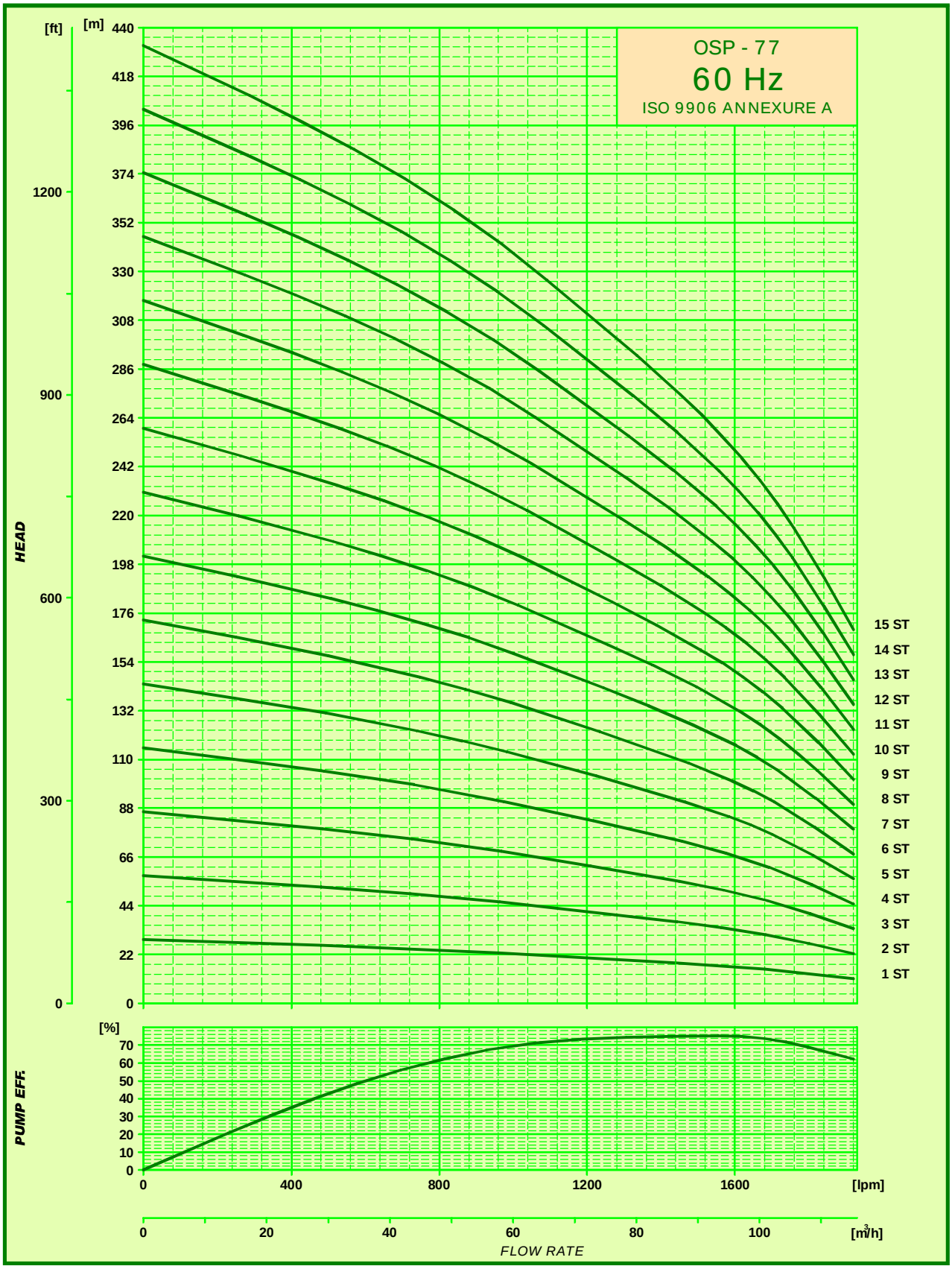
PUMP MODEL	STAGE	MOTOR		PUMP				Motor
		Joining Motor	Power (KW)	Length C (mm)	E* (mm)	E** (mm)	Weight Kg	OD D
OSP - 77 (E) (6x8)	1	**V-6**	5.5	625	200	200	20.0	144
OSP - 77 (E) (6x8)	2-AB	V-6	7.5	753	200	200	23.8	144
OSP - 77 (E) (6x8)	2-A	V-6	9.3	753	200	200	23.8	144
OSP - 77 (E) (6x8)	2	V-6	11	881	200	200	27.5	144
OSP - 77 (E) (6x8)	3-AA	V-6	13	881	200	200	27.5	144
OSP - 77 (E) (6x8)	3-A	V-6	15	881	200	200	27.5	144
OSP - 77 (E) (6x8)	3	V-6	18.5	881	200	200	27.5	144
OSP - 77 (E) (6x8)	4-B	V-6	18.5	1009	200	200	31.3	144
OSP - 77 (E) (6x8)	4	V-6	22	1009	200	200	31.3	144
OSP - 77 (E) (6x8)	5-BB	V-6	22	1152	200	200	35.1	144
OSP - 77 (E)	5	**V-8**	26	1152	205	205	37.2	189
OSP - 77 (E)	6-B	V-8	30	1280	205	205	40.9	189
OSP - 77 (E)	6	V-8	37	1280	205	205	40.9	189
OSP - 77 (E)	7	V-8	37	1408	205	205	44.7	189
OSP - 77 (E)	8	V-8	45	1536	205	205	48.5	189
OSP - 77 (E)	9	V-8	55	1664	205	205	52.2	189
OSP - 77 (E)	10	V-8	55	1792	205	205	56.0	189
OSP - 77 (E)	11	V-8	67	1920	205	205	59.8	189
OSP - 77 (E)	12	V-8	67	2048	205	205	63.5	189
OSP - 77 (E)	13	V-8	75	2176	205	205	67.3	189
OSP - 77 (E)	14	V-8	93	2304	205	205	71.1	189
OSP - 77 (E)	15	V-8	93	2432	205	205	74.9	189

FIGURE

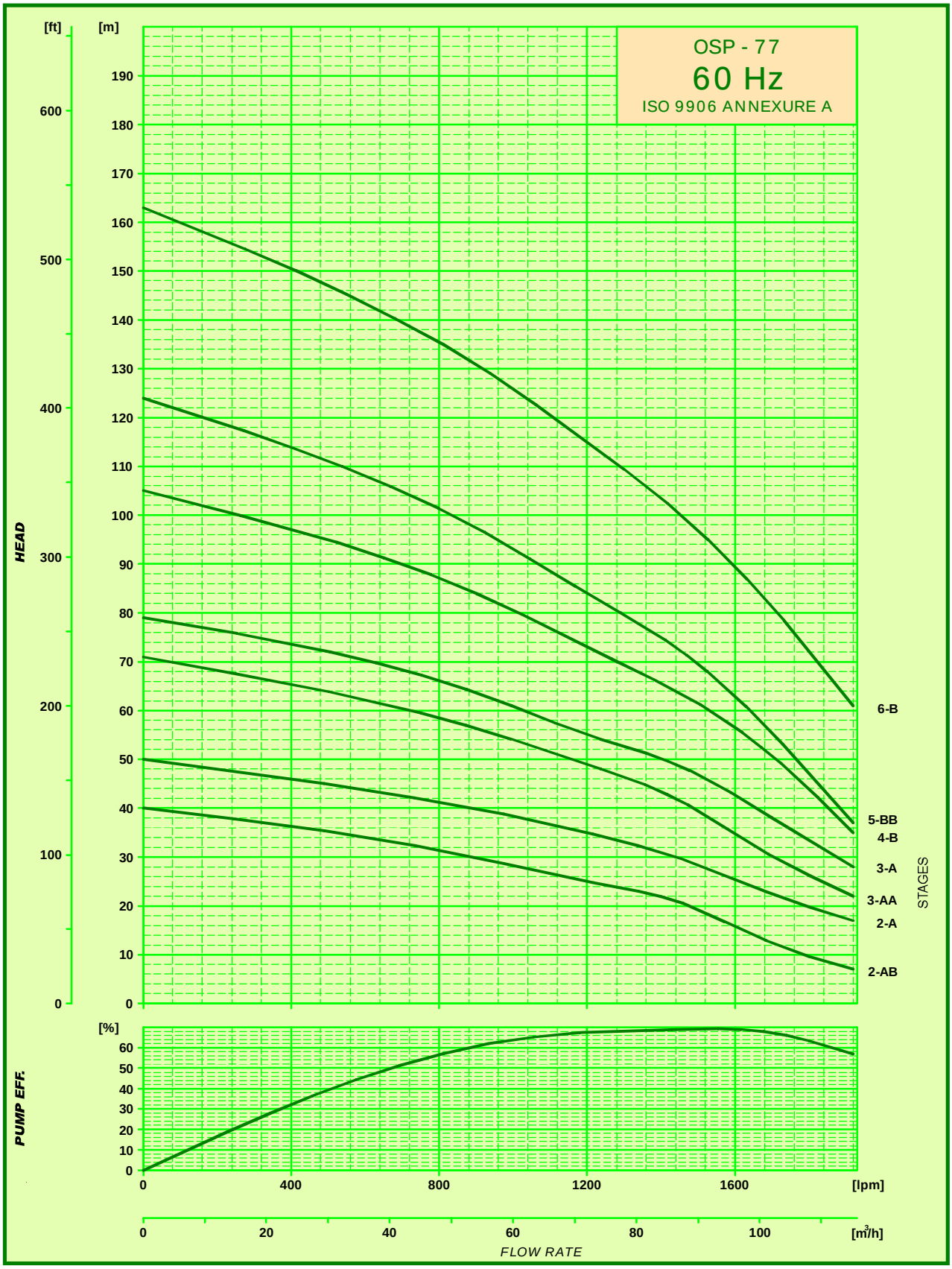


E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE
E**: MAX.DIA OF PUMP WITH TWO MOTOR CABLE

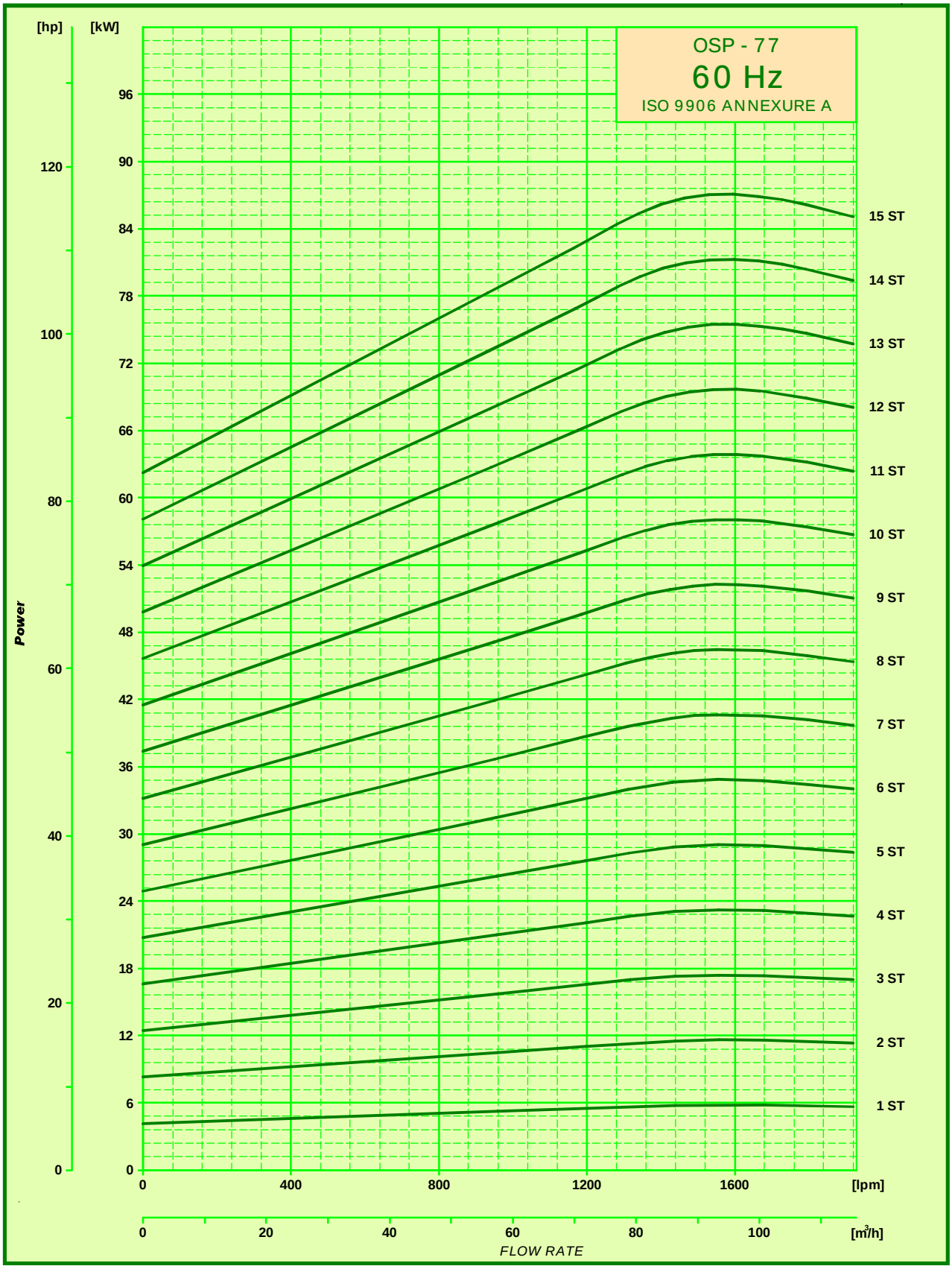
Performance Curves



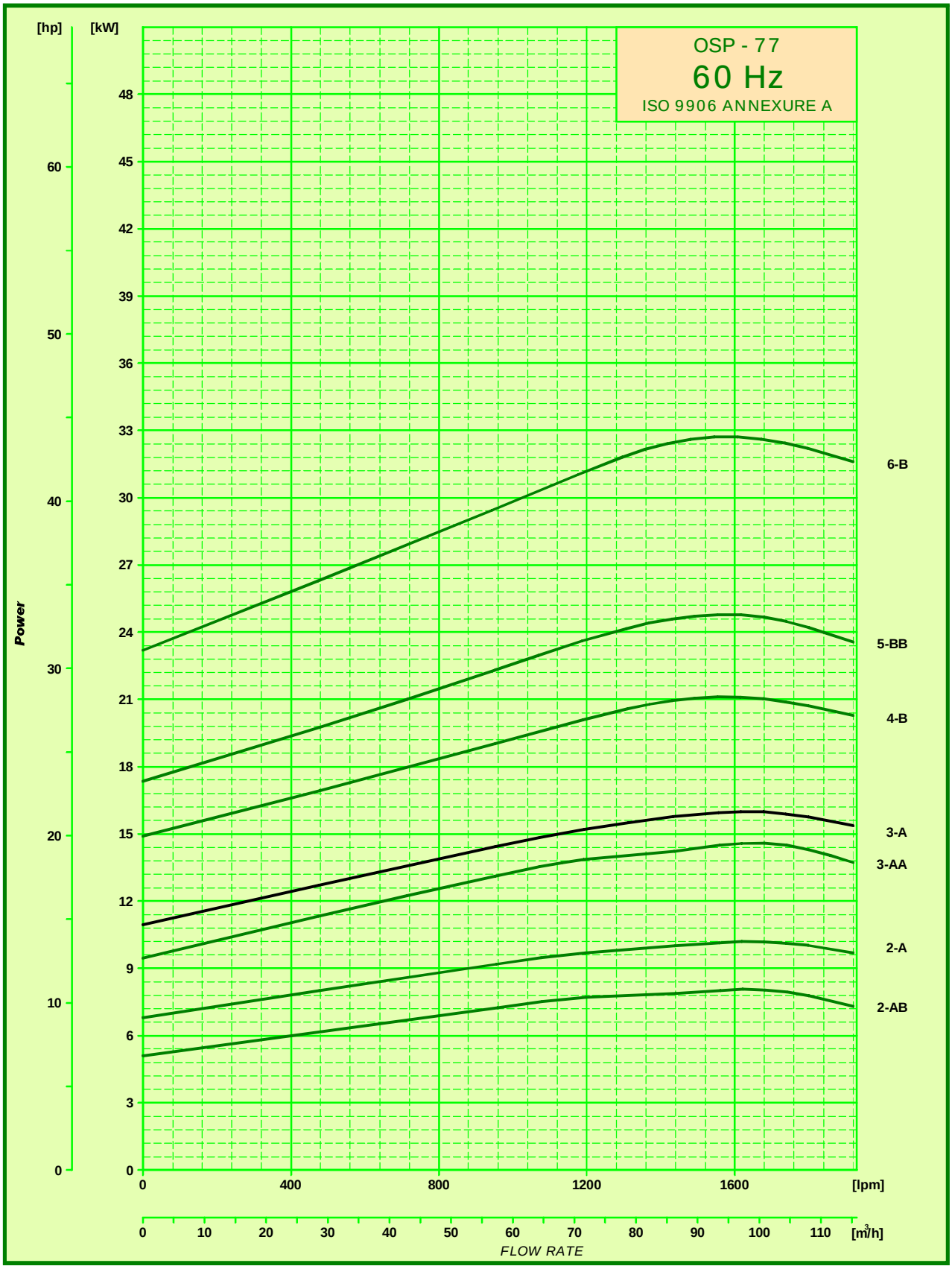
Performance Curves



Power Curves



Power Curves



Performance Table

OSP- 95

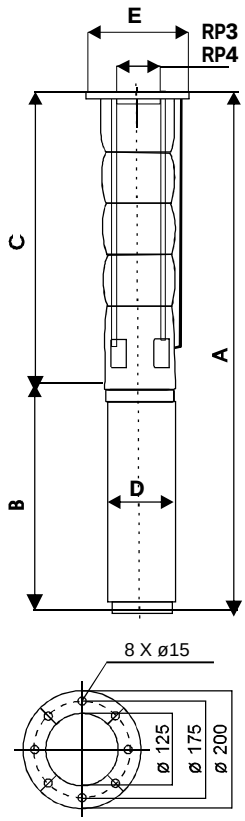
MODEL	K.W.	H.P.	Stage	Motor Joining	Out let Size in inches	Discharge						
						M^3/hr.	0	57.6	86.4	**115.2**	129.6	144
						LPM	0	960	1440	**1920**	2160	2400
OSP- 95 (E) (6x8)	5.5	7.5	1-A	V-6	5"	HEAD IN METERS	25	18	15	**11**	7	4
OSP- 95 (E) (6x8)	7.5	10	1	V-6	5"		31	25	21	**17**	14	10
OSP- 95 (E) (6x8)	9.3	12.5	2-AB	V-6	5"		45	33	28	**20**	11	8
OSP- 95 (E) (6x8)	11	15	2-B	V-6	5"		50	40	35	**25**	18	10
OSP- 95 (E) (6x8)	13	17.5	2	V-6	5"		62	50	43	**34**	28	19
OSP- 95 (E) (6x8)	15	20	3-BB	V-6	5"		69	56	48	**34**	22	10
OSP- 95 (E) (6x8)	18.5	25	3-B	V-6	5"		81	66	57	**42**	32	19
OSP- 95 (E) (6x8)	22	30	3	V-6	5"		92	75	64	**51**	42	29
OSP- 95 (E) (6x8)	22	30	4-AB	V-6	5"		106	83	70	**54**	39	23
OSP- 95 (E)	26	35	4	V-8	5"		123	100	85	**68**	56	39
OSP- 95 (E)	30	40	5-B	V-8	5"		142	116	99	**76**	60	39
OSP- 95 (E)	37	50	5	V-8	5"		154	125	107	**85**	70	48
OSP- 95 (E)	37	50	6	V-8	5"		185	149	128	**102**	84	58
OSP- 95 (E)	45	60	7	V-8	5"		216	174	149	**118**	98	68
OSP- 95 (E)	55	75	8	V-8	5"		247	199	170	**135**	112	77
OSP- 95 (E)	67	90	9	V-8	5"		277	224	192	**152**	126	87
OSP- 95 (E)	67	90	10	V-8	5"		308	249	213	**169**	140	97
OSP- 95 (E)	75	100	11	V-8	5"		339	274	234	**186**	154	106
OSP- 95 (E)	93	125	12	V-8	5"		370	299	256	**203**	168	116
OSP- 95 (E)	93	125	13	V-8	5"		401	324	277	**220**	182	125

Technical Data

OSP - 95

PUMP MODEL	STAGE	MOTOR		PUMP				Motor
		Joining Motor	Power (KW)	Length C (mm)	E* (mm)	E** (mm)	Weight Kg	OD D
OSP- 95 (E) (6x8)	1-A	**V-6**	5.5	625	200	200	20.0	144
OSP- 95 (E) (6x8)	1	V-6	7.5	625	200	200	20.0	144
OSP- 95 (E) (6x8)	2-AB	V-6	9.3	753	200	200	23.8	144
OSP- 95 (E) (6x8)	2-B	V-6	11	753	200	200	23.8	144
OSP- 95 (E) (6x8)	2	V-6	13	753	200	200	23.8	144
OSP- 95 (E) (6x8)	3-BB	V-6	15	881	200	200	27.5	144
OSP- 95 (E) (6x8)	3-B	V-6	18.5	881	200	200	27.5	144
OSP- 95 (E) (6x8)	3	V-6	22	881	200	200	27.5	144
OSP- 95 (E) (6x8)	4-AB	V-6	22	1009	205	205	31.3	144
OSP- 95 (E)	4	**V-8**	26	1024	205	205	33.4	189
OSP- 95 (E)	5-B	V-8	30	1152	205	205	37.2	189
OSP- 95 (E)	5	V-8	37	1152	205	205	37.2	189
OSP- 95 (E)	6	V-8	37	1280	205	205	40.9	189
OSP- 95 (E)	7	V-8	45	1408	205	205	44.7	189
OSP- 95 (E)	8	V-8	55	1536	205	205	48.5	189
OSP- 95 (E)	9	V-8	67	1664	205	205	52.2	189
OSP- 95 (E)	10	V-8	67	1792	205	205	56.0	189
OSP- 95 (E)	11	V-8	75	1920	205	205	59.8	189
OSP- 95 (E)	12	V-8	93	2048	205	205	63.5	189
OSP- 95 (E)	13	V-8	93	2176	205	205	67.3	189

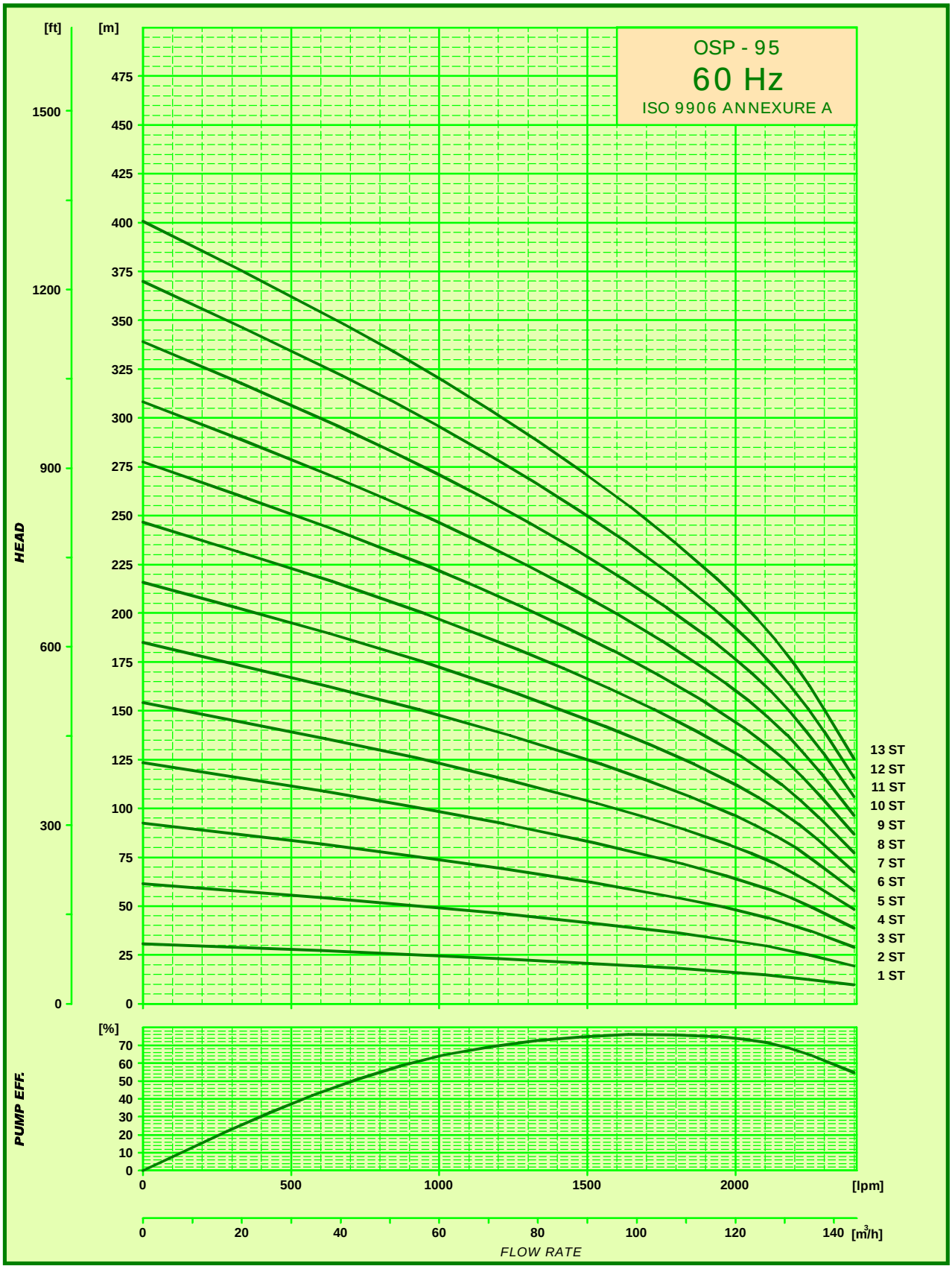
FIGURE



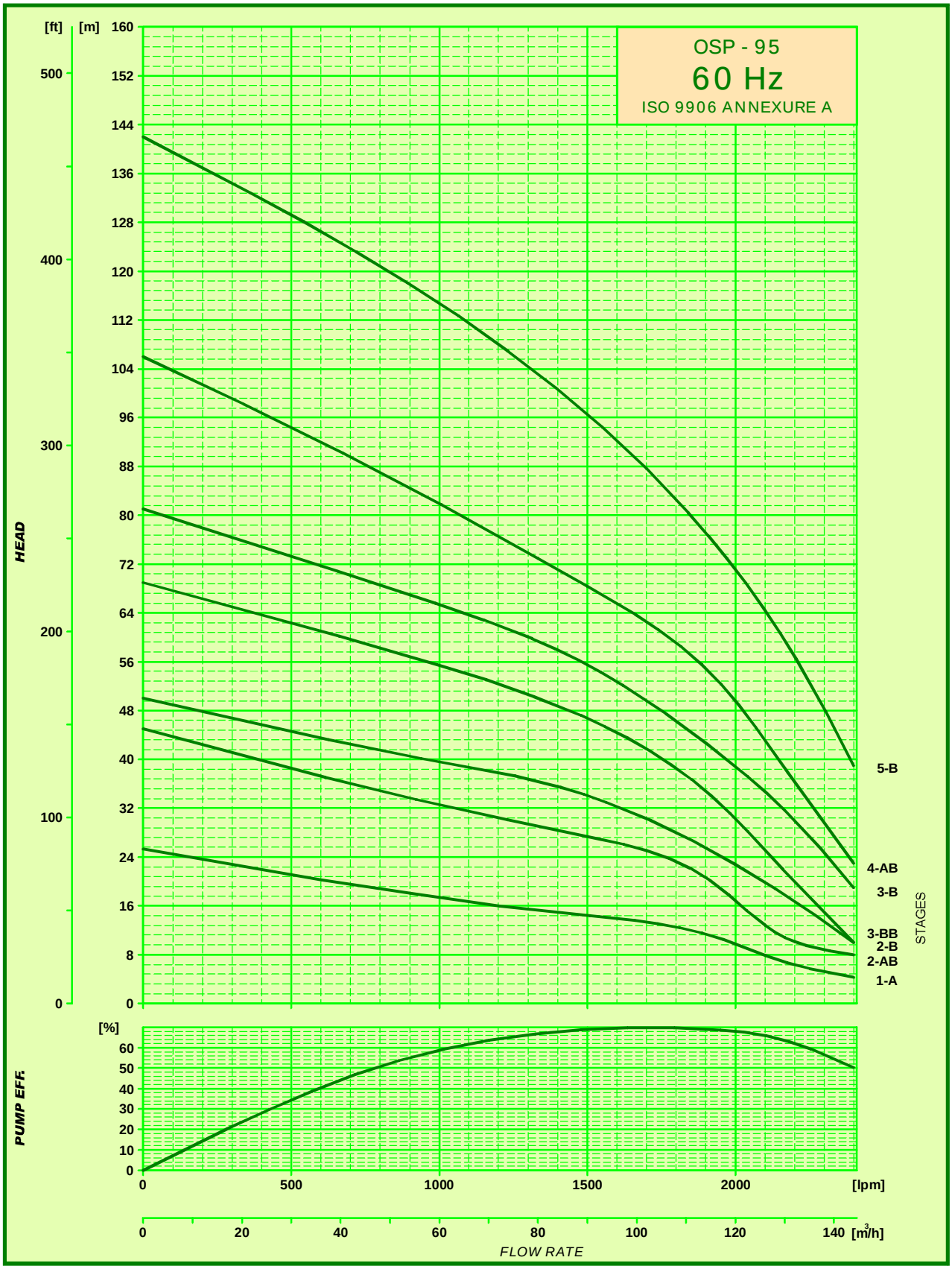
E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE

E** : MAX.DIA OF PUMP WITH TWO MOTOR CABLE

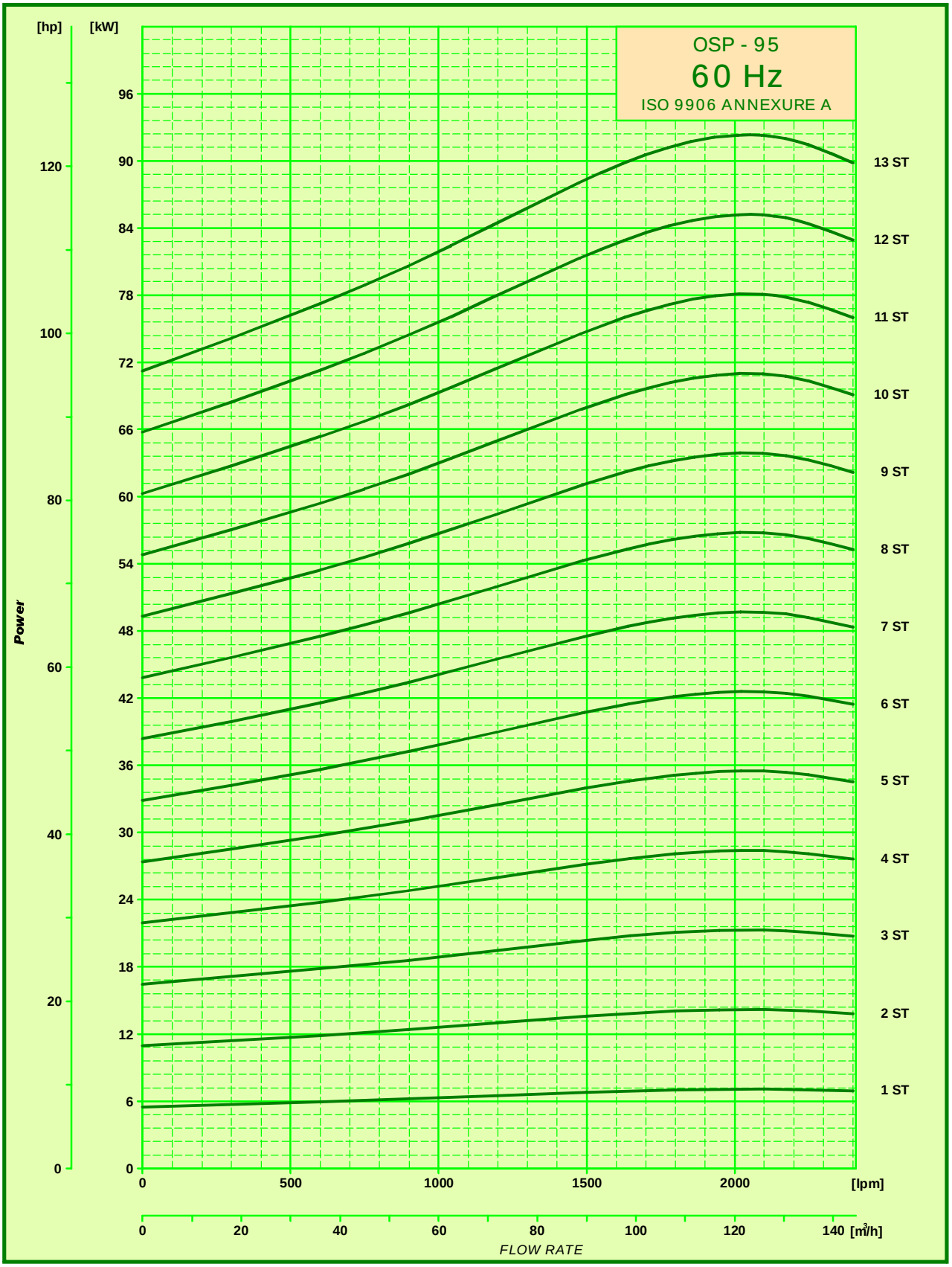
Performance Curves



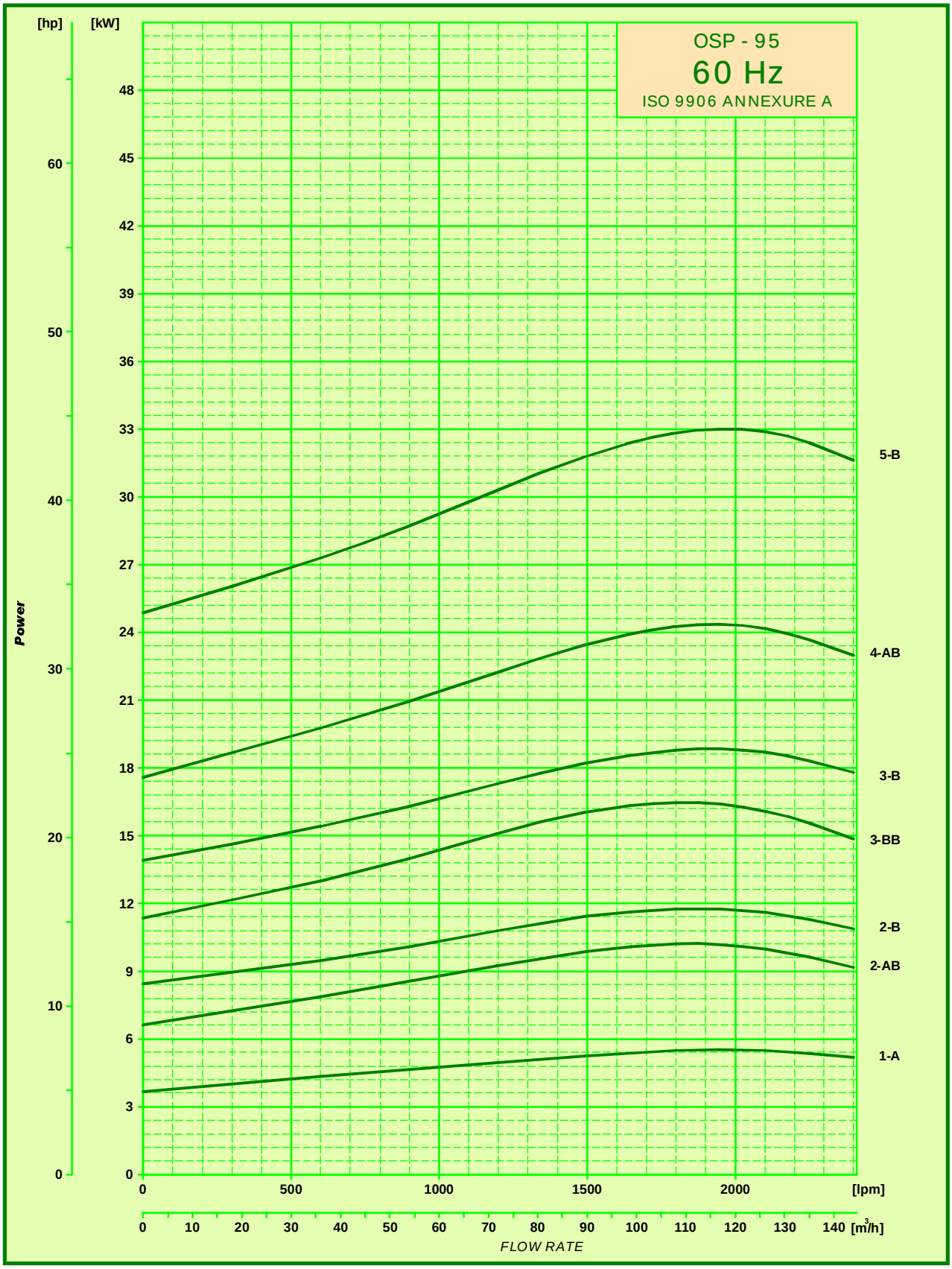
Performance Curves



Power Curves



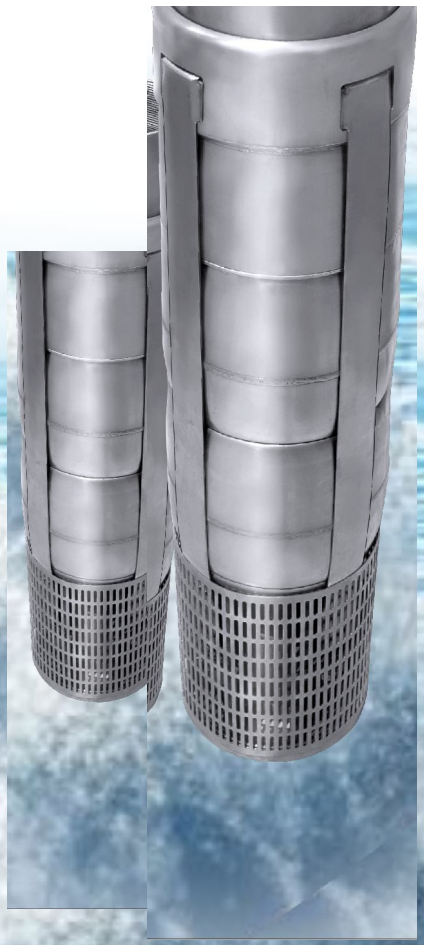
Power Curves



OSP-125 & 0SP-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 rang up to 471 meters
- Flow range up to 180 M^3

Operating Condition

- Maximum liquid temperature : 45°c
- Maximum quantity of sand 50 gm / m^3
- 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.

Special Construction On Request

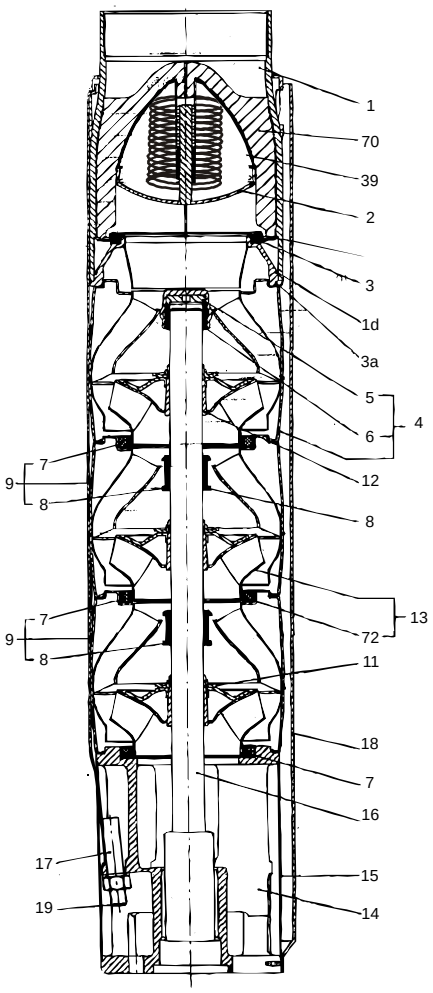
Also available in NPT connection

Material of Construction

MATERIAL SPECIFICATION - OSP -125/160

S.No.	Components	Material	Standard
1	Valve complete	Stainless steel	304
Id	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

OSP- 125

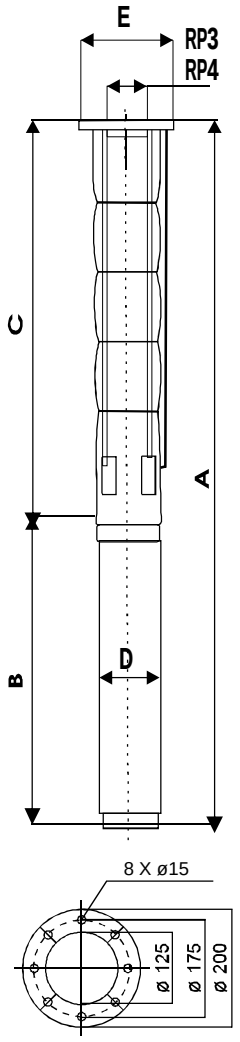
MODEL	K.W.	H.P.	Stage	Motor Joining	Out let Size in inches	Discharge						
						M^3/hr.	0	57.6	115.2	**151.2**	172.8	187.2
						LPM	0	960	1920	**2520**	2880	3120
OSP-125(E)(6x10)	11	15	1-A	V-6	6"	HEAD IN METERS	30	28	23	**19**	14	9
OSP-125(E)(6x10)	18.5	25	1	V-6	6"		41	40	33	**29**	24	21
OSP-125(E)(6x10)	22	30	2-AA	V-6	6"		60	56	46	**37**	27	19
OSP-125(E)(8x10)	26	35	2-A	V-8	6"		71	68	56	**47**	38	30
OSP-125(E)(8x10)	30	40	2	V-8	6"		82	80	66	**58**	49	42
OSP-125(E)(8x10)	37	50	3-AA	V-8	6"		101	96	79	**66**	52	40
OSP-125(E)(8x10)	37	50	3-A	V-8	6"		112	108	89	**76**	63	51
OSP-125(E)(8x10)	45	60	3	V-8	6"		123	120	99	**86**	73	64
OSP-125(E)(8x10)	55	75	4-AA	V-8	6"		142	136	112	**95**	76	61
OSP-125(E)(8x10)	55	75	4-A	V-8	6"		153	148	122	**105**	87	73
OSP-125(E)(8x10)	67	90	4	V-8	6"		164	160	132	**115**	98	85
OSP-125(E)(8x10)	75	100	5-AA	V-8	6"		183	176	145	**124**	101	82
OSP-125(E)(8x10)	75	100	5-A	V-8	6"		194	188	155	**134**	112	94
OSP-125(E)(8x10)	75	100	5	V-8	6"		205	199	166	**144**	122	106
OSP-125(E)(8x10)	75	100	6-AA	V-8	6"		224	216	178	**153**	125	103
OSP-125(E)(8x10)	93	125	6-A	V-8	6"		235	228	188	**163**	136	115
OSP-125(E)(8x10)	93	125	6	V-8	6"		246	239	199	**173**	147	127
OSP-125(E)(8x10)	93	125	7-AA	V-8	6"		265	256	211	**181**	149	125
OSP-125(E)(8x10)	93	125	7-A	V-8	6"		276	267	221	**191**	161	136
OSP-125 (E)	110	150	7	V-10	6"		287	279	232	**202**	171	148
OSP-125 (E)	130	175	8	V-10	6"		328	319	265	**230**	196	169
OSP-125 (E)	130	175	9	V-10	6"		369	359	298	**259**	220	191
OSP-125 (E)	150	200	10	V-10	6"		410	399	331	**288**	245	212
OSP-125 (E)	185	250	11	V-10	6"		451	439	364	**317**	269	233
OSP-125 (E)	185	250	12	V-10	6"		492	479	397	**346**	294	254
OSP-125 (E)	185	250	13	V-10	6"		534	519	431	**374**	318	275

Technical Data

OSP - 125

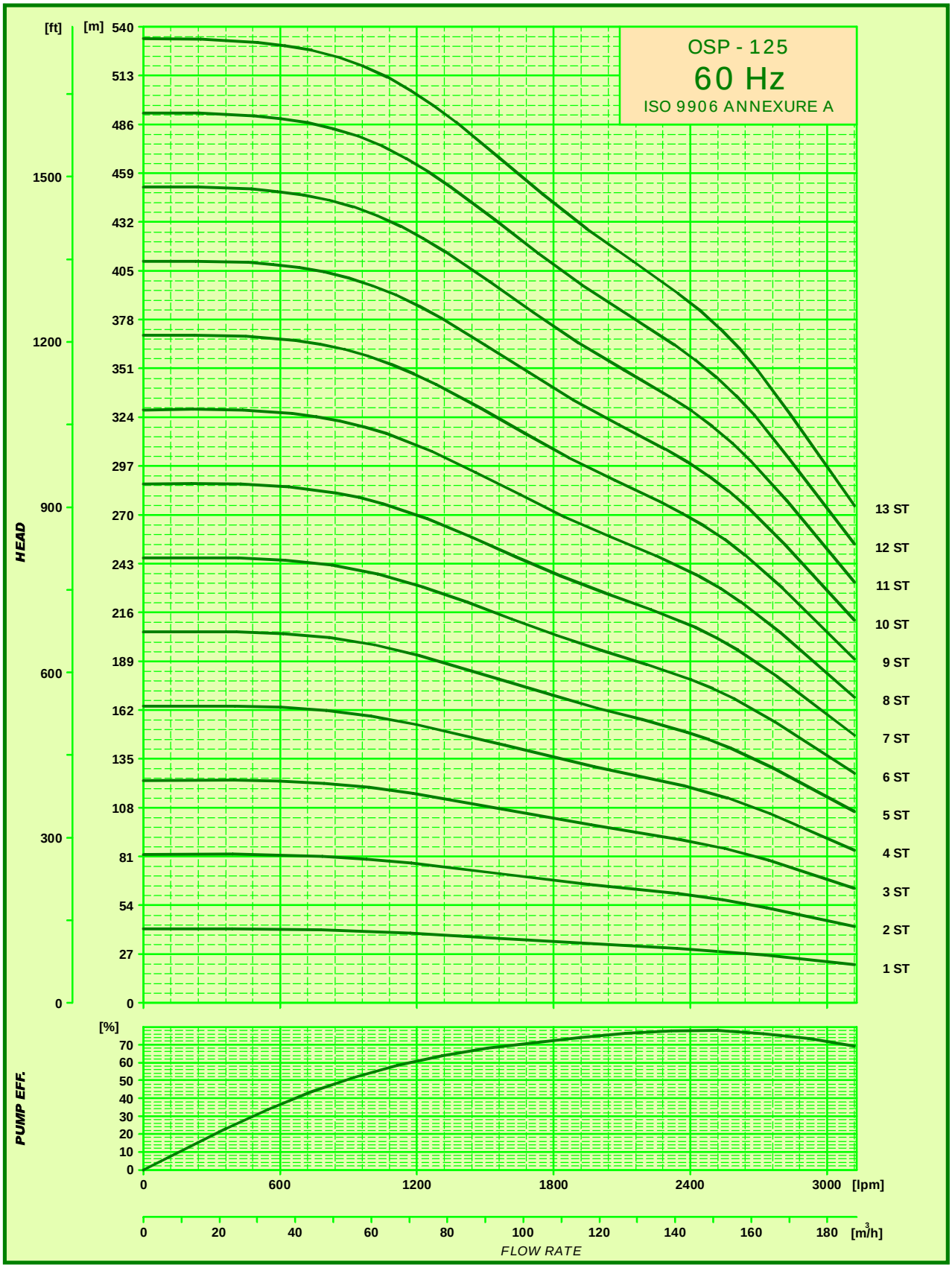
PUMP MODEL	STAGE	MOTOR		PUMP				Motor
		Joining Motor	Power (KW)	Length C (mm)	E* (mm)	E** (mm)	Weight Kg	OD D
OSP-125(E)(6x10)	1-A	**V-6**	11	636	222	226	28.2	144
OSP-125(E)(6x10)	1	V-6	18.5	636	222	226	28.2	144
OSP-125(E)(6x10)	2-AA	V-6	22	792	222	226	34.4	144
OSP-125(E)(8x10)	2-A	**V-8**	26	792	222	226	35.6	189
OSP-125(E)(8x10)	2	V-8	30	792	222	226	35.6	189
OSP-125(E)(8x10)	3-AA	V-8	37	948	222	226	41.9	189
OSP-125(E)(8x10)	3-A	V-8	37	948	222	226	41.9	189
OSP-125(E)(8x10)	3	V-8	45	948	222	226	41.9	189
OSP-125(E)(8x10)	4-AA	V-8	55	1104	222	226	48.1	189
OSP-125(E)(8x10)	4-A	V-8	55	1104	222	226	48.1	189
OSP-125(E)(8x10)	4	V-8	67	1104	222	226	48.1	189
OSP-125(E)(8x10)	5-AA	V-8	75	1260	222	226	54.4	189
OSP-125(E)(8x10)	5-A	V-8	75	1260	222	226	54.4	189
OSP-125(E)(8x10)	5	V-8	75	1260	222	226	54.4	189
OSP-125(E)(8x10)	6-AA	V-8	75	1416	222	226	60.6	189
OSP-125(E)(8x10)	6-A	V-8	93	1416	222	226	60.6	189
OSP-125(E)(8x10)	6	V-8	93	1416	222	226	60.6	189
OSP-125(E)(8x10)	7-AA	V-8	93	1572	222	226	66.9	189
OSP-125(E)(8x10)	7-A	V-8	93	1572	222	226	66.9	189
OSP-125 (E)	7	**V-10**	110	1572	229	232	67.5	236
OSP-125 (E)	8	V-10	130	1728	229	232	73.7	236
OSP-125 (E)	9	V-10	130	1884	229	232	80.0	236
OSP-125 (E)	10	V-10	150	2040	229	232	86.2	236
OSP-125 (E)	11	V-10	185	2196	229	232	92.5	236
OSP-125 (E)	12	V-10	185	2352	229	232	98.7	236
OSP-125 (E)	13	V-10	185	2508	229	232	105.0	236

FIGURE

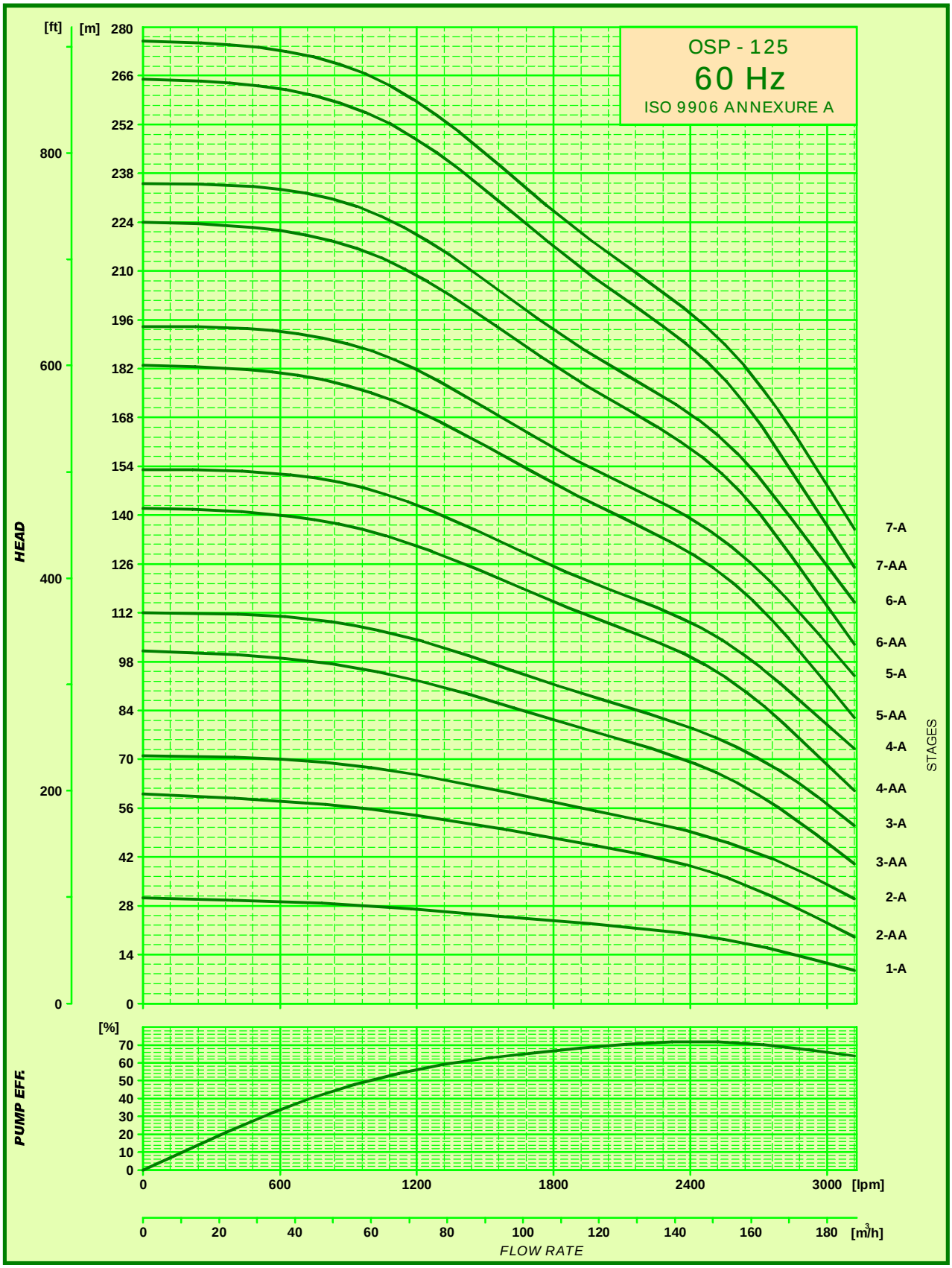


E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE
E**: MAX.DIA OF PUMP WITH TWO MOTOR CABLE

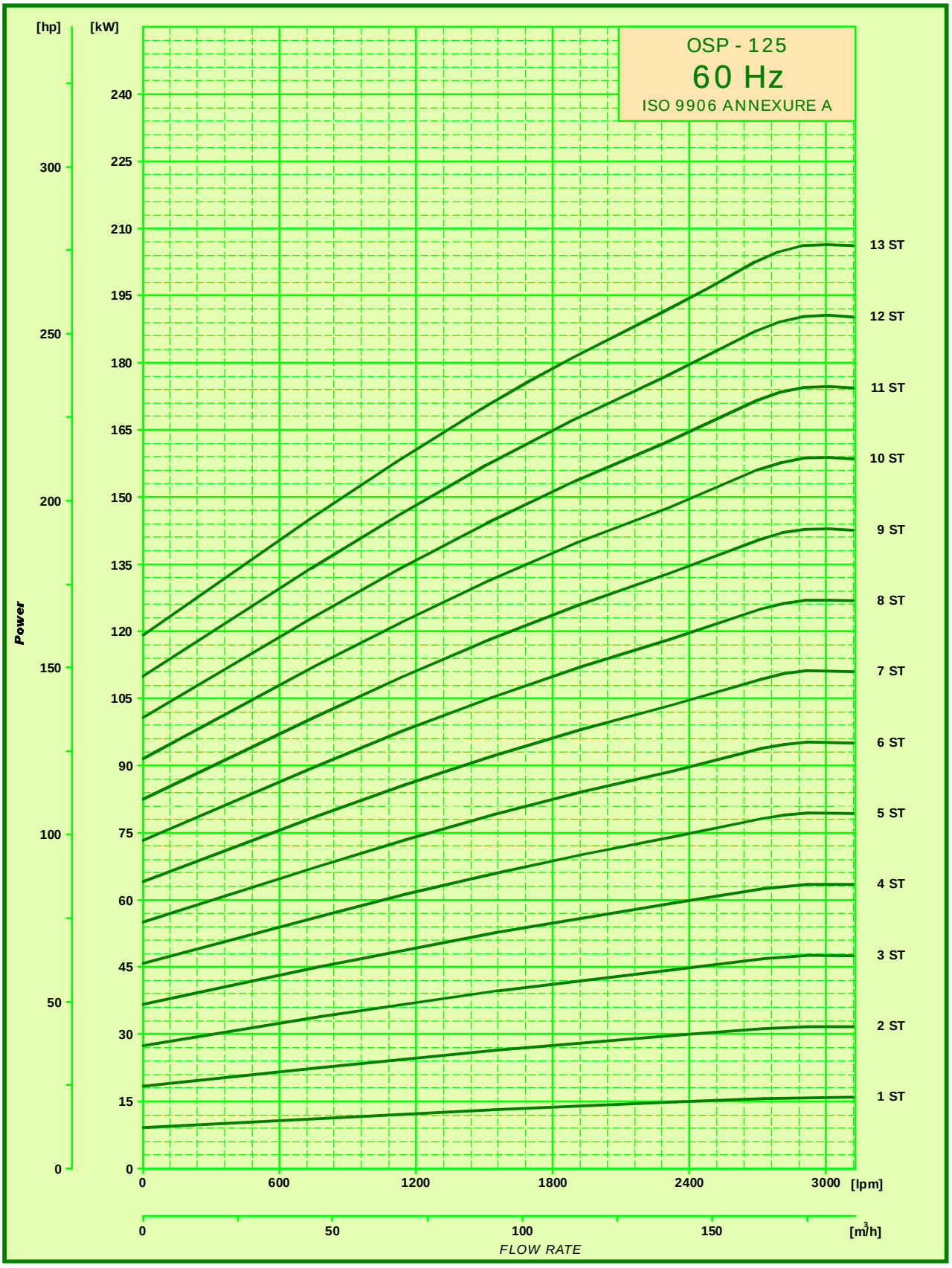
Performance Curves



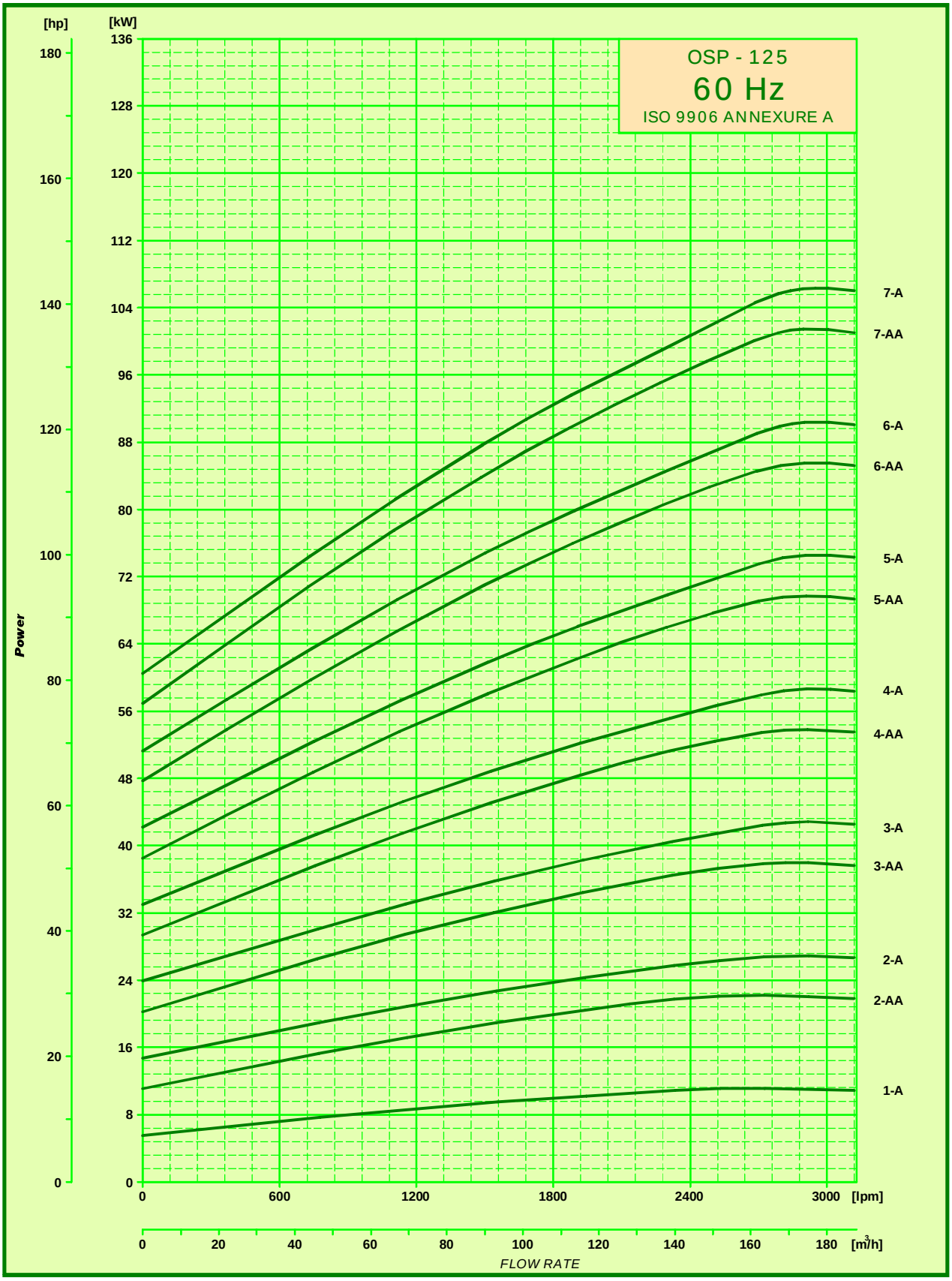
Performance Curves



Power Curves



Power Curves



Performance Table

OSP- 160

MODEL	K.W.	H.P.	Stage	Motor Joining	Out let Size in inches	Discharge						
						M^3/hr.	0	72	108	144	**194.4**	216
						LPM	0	1200	1800	2400	**3240**	3600
OSP-160(E)(6X10)	15	20	1-A	V-6	6"	HEAD IN METERS	34	29	26	23	**17**	14
OSP-160(E)(6X10)	22	30	1	V-6	6"		46	42	38	34	**29**	25
OSP-160(E)(8X10)	26	35	2-AA	V-8	6"		69	59	52	46	**34**	27
OSP-160(E)(8X10)	37	50	2-A	V-8	6"		80	72	63	56	**46**	39
OSP-160(E)(8X10)	37	50	2	V-8	6"		92	85	75	67	**58**	50
OSP-160(E)(8X10)	45	60	3-AA	V-8	6"		115	101	90	80	**63**	53
OSP-160(E)(8X10)	55	75	3-A	V-8	6"		127	114	101	90	**75**	64
OSP-160(E)(8X10)	55	75	3	V-8	6"		138	127	113	101	**86**	76
OSP-160(E)(8X10)	67	90	4-AA	V-8	6"		161	144	127	113	**92**	78
OSP-160(E)(8X10)	75	100	4-A	V-8	6"		173	157	139	124	**104**	89
OSP-160(E)(8X10)	75	100	4	V-8	6"		184	170	151	134	**115**	101
OSP-160(E)(8X10)	93	125	5-AA	V-8	6"		207	186	165	147	**121**	103
OSP-160(E)(8X10)	93	125	5-A	V-8	6"		219	199	177	157	**132**	114
OSP-160(E)(8X10)	93	125	5	V-8	6"		230	212	189	168	**144**	126
OSP-160 (E)	110	150	6	V-10	6"		276	255	226	201	**173**	151
OSP-160 (E)	130	175	7	V-10	6"		323	297	264	235	**202**	176
OSP-160 (E)	150	200	8	V-10	6"		369	340	302	268	**230**	202
OSP-160 (E)	185	250	9	V-10	6"		415	382	340	302	**259**	227
OSP-160 (E)	185	250	10	V-10	6"		461	425	377	336	**288**	252

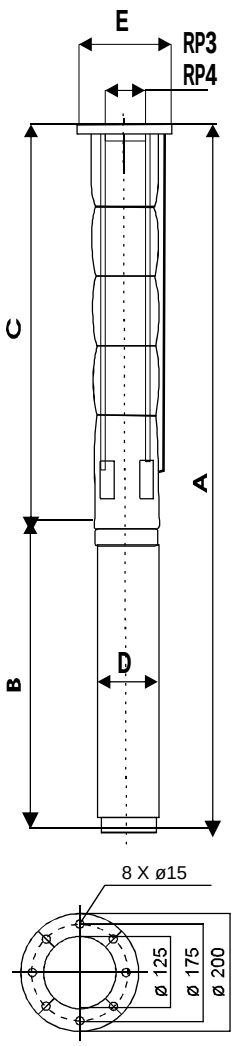
Technical Data

OSP -160

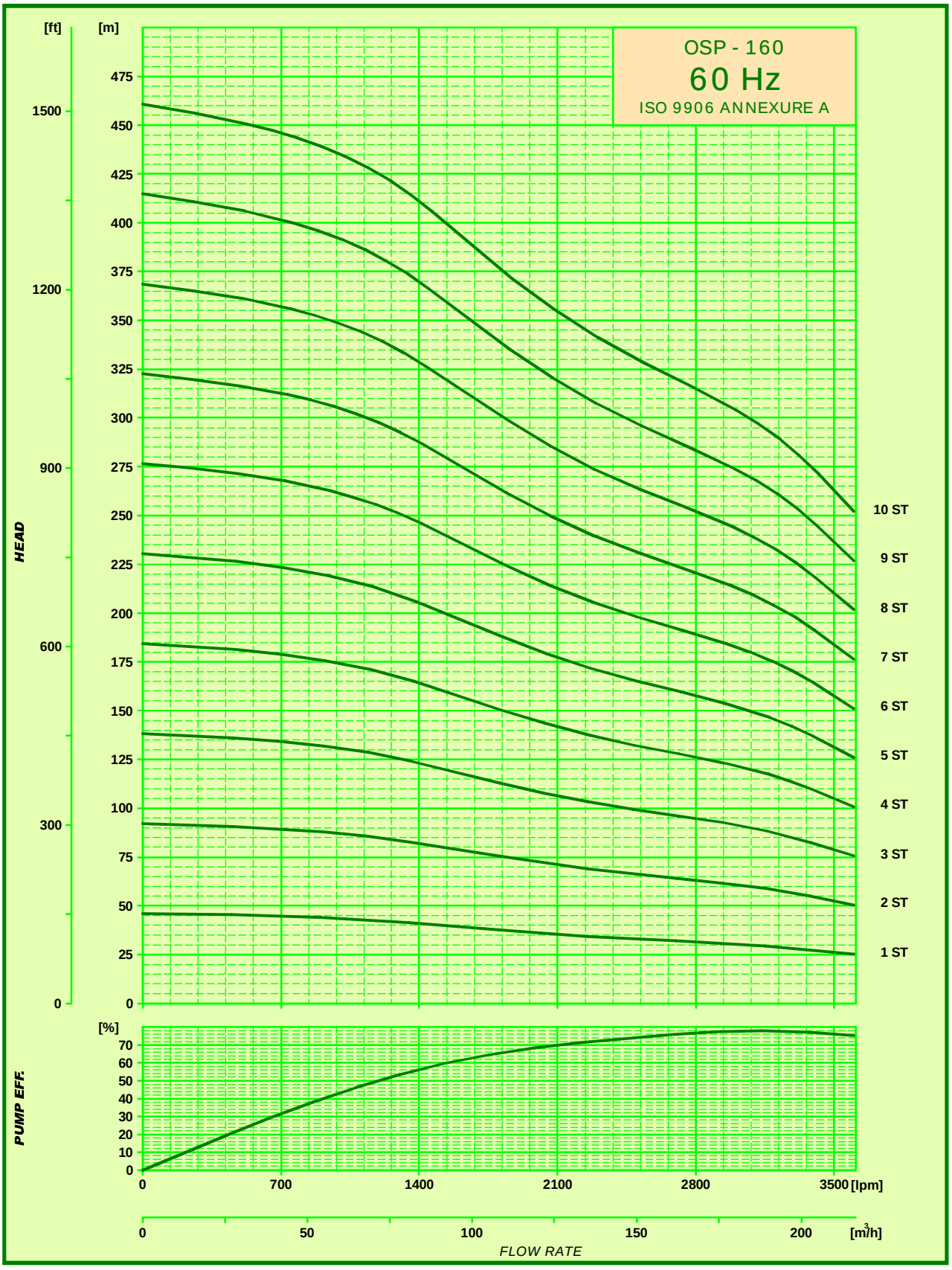
PUMP MODEL	STAGE	MOTOR		PUMP				Motor
		Joining Motor	Power (KW)	Length C (mm)	E* (mm)	E** (mm)	Weight Kg	OD D
OSP-160(E)(6X10)	1-A	**V-6**	15	636	222	226	28.2	144
OSP-160(E)(6X10)	1	V-6	22	636	222	226	28.2	144
OSP-160(E)(8X10)	2-AA	**V-8**	26	792	229	232	34.4	189
OSP-160(E)(8X10)	2-A	V-8	37	792	229	232	34.4	189
OSP-160(E)(8X10)	2	V-8	37	792	229	232	34.4	189
OSP-160(E)(8X10)	3-AA	V-8	45	948	229	232	41.9	189
OSP-160(E)(8X10)	3-A	V-8	55	948	229	232	41.9	189
OSP-160(E)(8X10)	3	V-8	55	948	229	232	41.9	189
OSP-160(E)(8X10)	4-AA	V-8	67	1104	229	232	41.9	189
OSP-160(E)(8X10)	4-A	V-8	75	1104	229	232	41.9	189
OSP-160(E)(8X10)	4	V-8	75	1104	229	232	48.1	189
OSP-160(E)(8X10)	5-AA	V-8	93	1260	229	232	48.1	189
OSP-160(E)(8X10)	5-A	V-8	93	1260	229	232	48.1	189
OSP-160(E)(8X10)	5	V-8	93	1260	229	232	54.4	189
OSP-160 (E)	6	**V-10**	110	1416	237	237	61.2	236
OSP-160 (E)	7	V-10	130	1572	237	237	67.5	236
OSP-160 (E)	8	V-10	150	1728	237	237	73.7	236
OSP-160 (E)	9	V-10	185	1884	237	237	80.0	236
OSP-160 (E)	10	V-10	185	2040	237	237	86.2	236

E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE
E**: MAX.DIA OF PUMP WITH TWO MOTOR CABLE

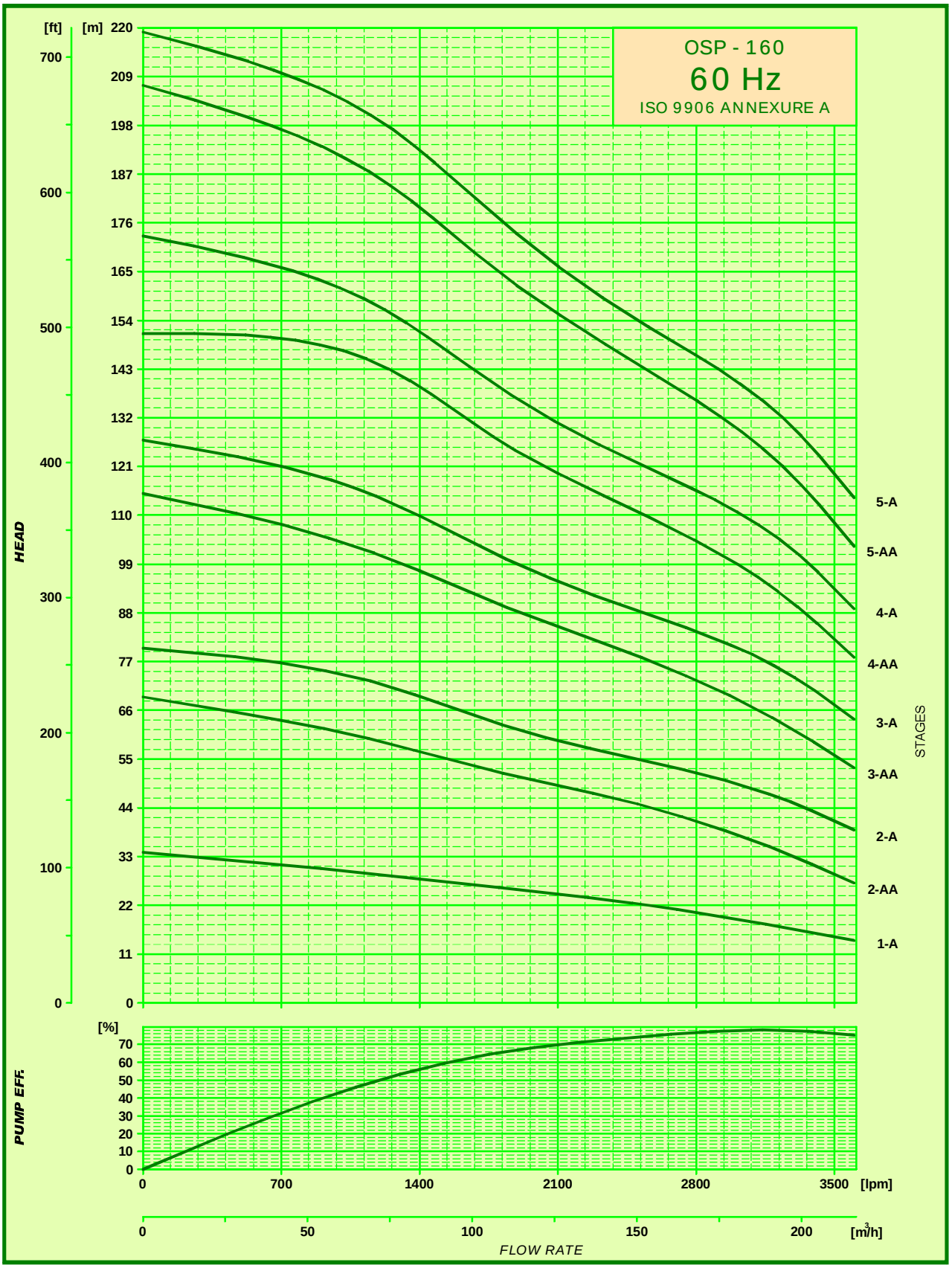
FIGURE



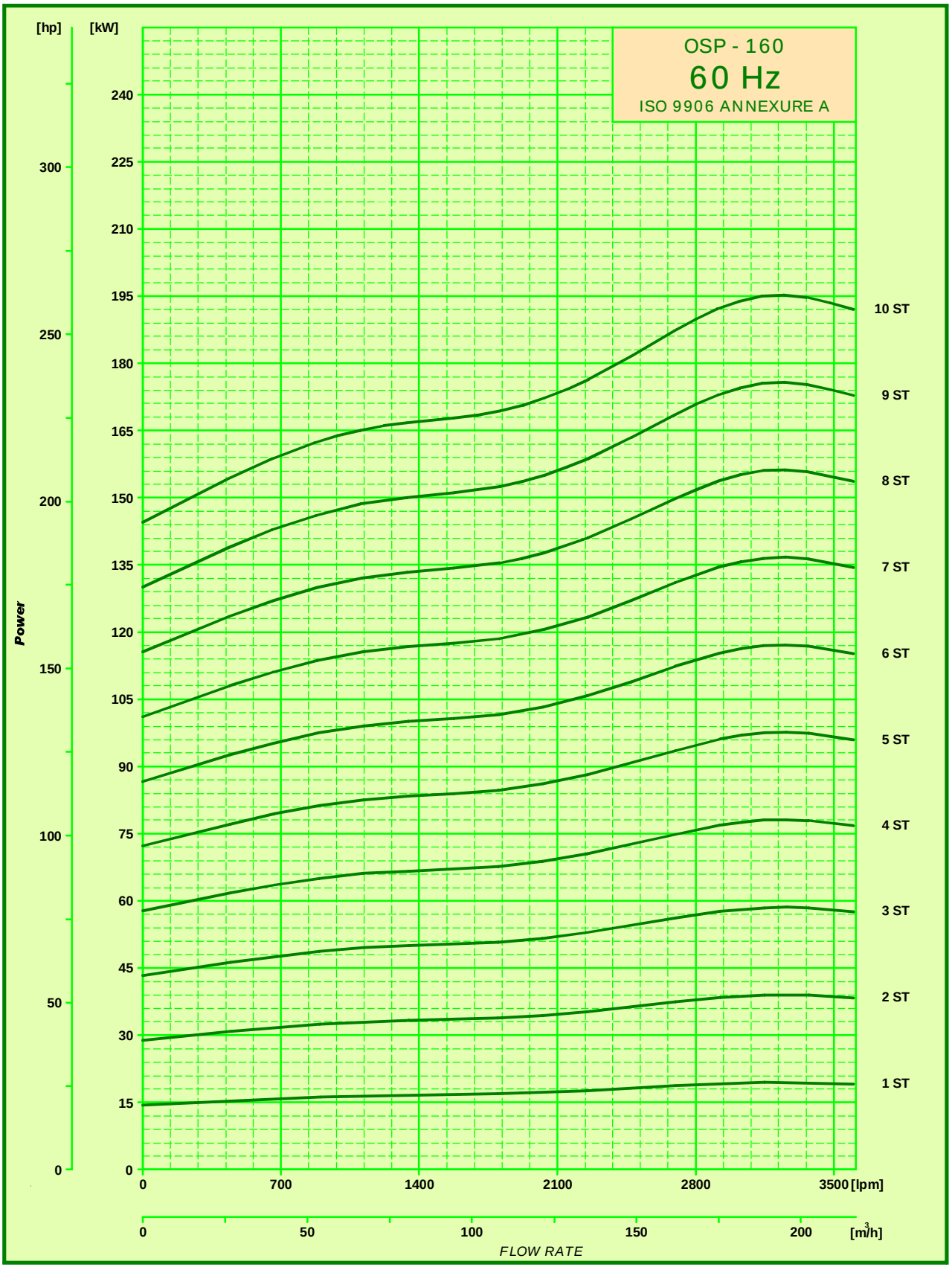
Performance Curves



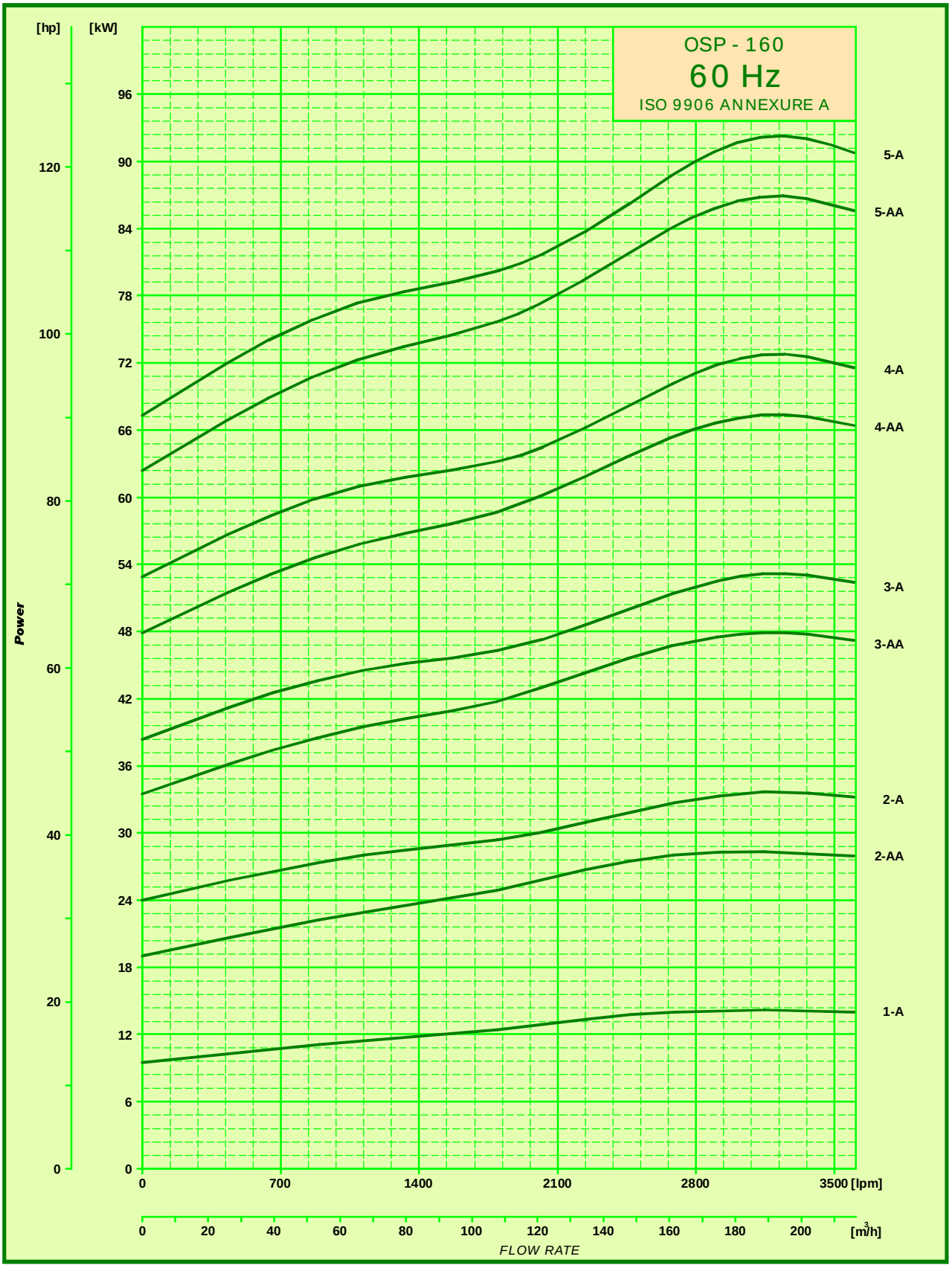
Performance Curves



Power Curves



Power Curves



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