OSWAL STAR

PUMPS & MOTORS

Solar | Domestic | Agriculture | Industrial

True Partner

PRODUCT CATALOGE

Stainless Steel Pumps

60 Hz

2024

Energy Efficient Range...

CAT NO./P03/2024

Company Profile

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

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

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

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

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

OSWAL have got 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 Development of Research Association, New Delhi for individual achievement of National Development.

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

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

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

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

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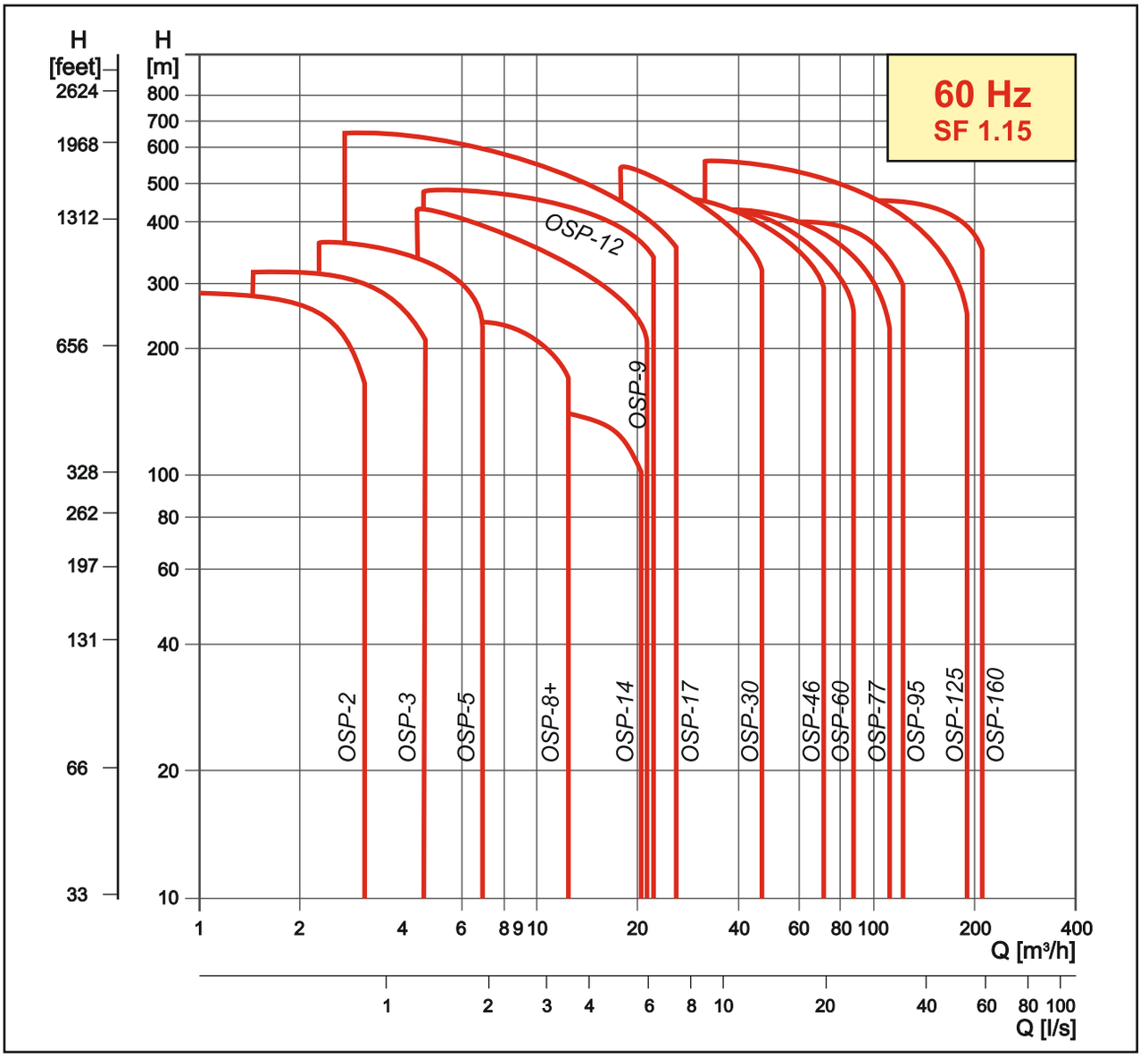
Performance Range



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 for high 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 4320 LPM.
* Pumped liquid : Clean water free from solid, Chemically Natural & Close the characteristics of water.
* Max. Ambient temperature : 50°c.
* Max. Quantity of sand : 50gm/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	OSP 215
Steel : S.S.-304		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Connection: Rp (Inches)	BSP Thread	1¼"	1½"	1½"	2"	2"	2"	2"	2½"	3"	4"	4"	5"	5"	6"	6"	6"
	NPT Thread	1¼"	1½"	1½"	2"	2"	2"	2"	3"	3"	4"	4"	5"	5"	6"	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
6"	0.15 m/s	40°c

Operating pressure: Maximum 67 bar.

Curve Conditions

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

CURVES

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

Features And Benefits

A Wide Pump Range

* We offers submersible pumps with energy-efficient duty points ranging from 2.4 to 259 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

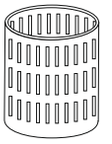
* We offers a complete range of pumps and motors with as a standard are made completely as stainless steel - 304. This provides for good wear resistance and a reduced risk of corrosion when pumping ordinary cold water with a minor content of chloride.

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.

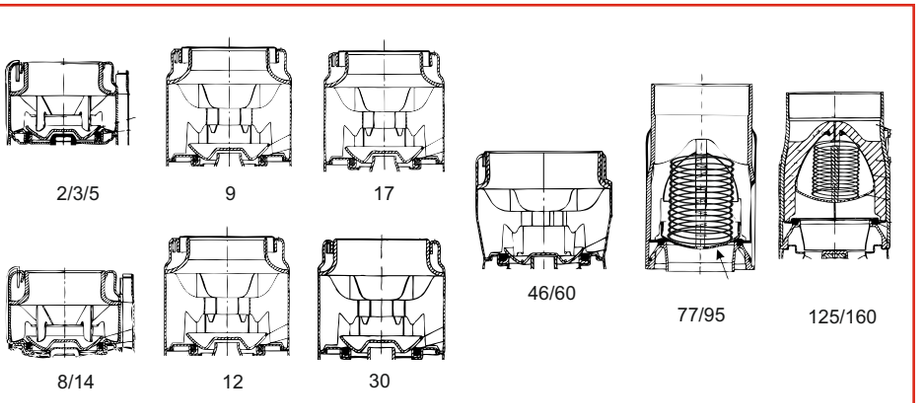


Inlet Strainer

* 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=3450 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.

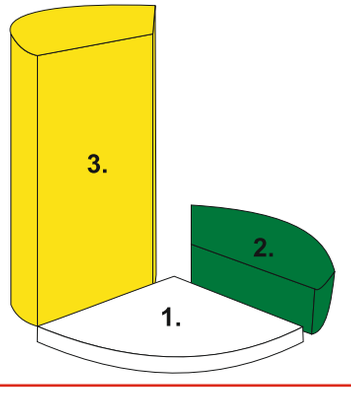
Energy Efficient Pumps :-

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%

OSWAL STAR

4"

Submersible Pump

OSP-2, OSP-3, OSP-5, OSP-8+ & 0SP-14

4” Submersible Pump General Data

Construction

- Submersible motor and pumps for bore wells of 4” (100 mm)
- All sizes of pumps according to the NEMA standard
- OSP series pumps are completely made out of AISI 304 stainless steel material.
- Radial flow Model : OSP-2 , OSP-3,OSP-5, OSP-8+ , OSP-14

Application

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

General Data

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

Operating Condition

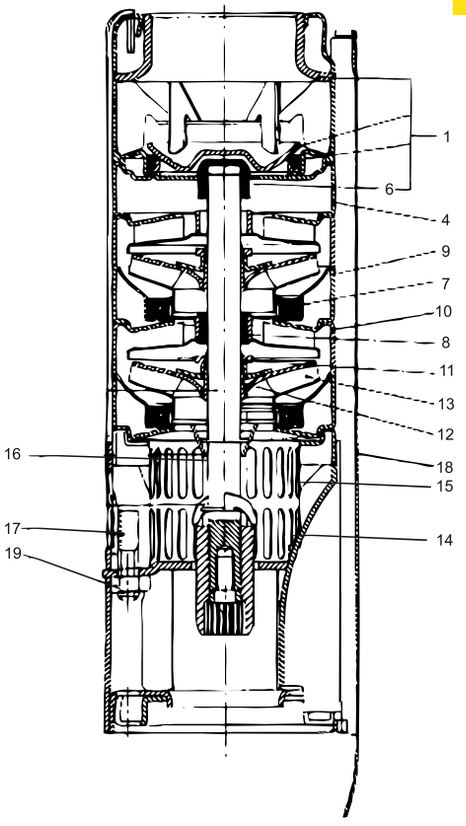
- Maximum Ambient temperature : 50ºc
- Maximum quantity of sand 50 gm / m^3
- Minimum suction head required : 1.5 meter.
- Max. start per hour 30 at regular intervals.
- Direction of rotation : clockwise as seen from the pump coupling side.

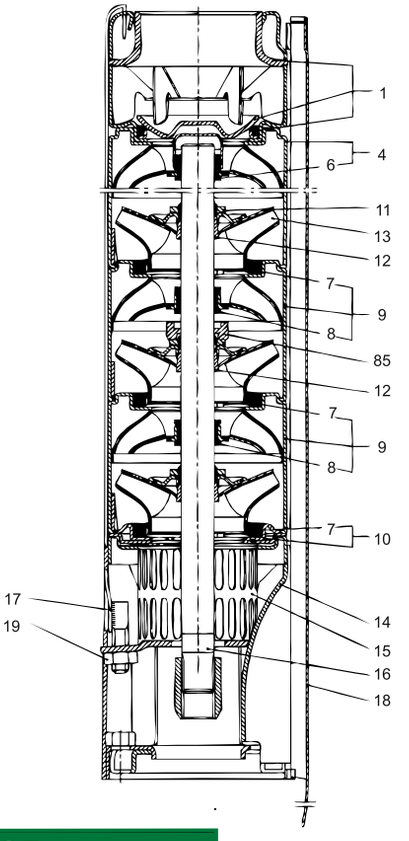
Special Construction On Request

- 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	SS-431
17	Strap	SS-304
18	Cable guard	SS-304
19	Nut	SS-304
85	Stop Ring	SS-304

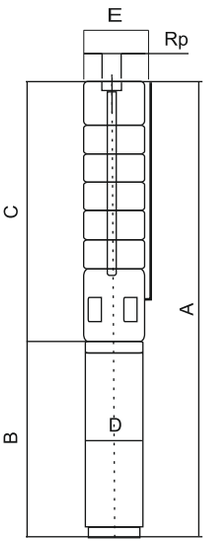
Technical Data

Submersible Pump | **60 Hz** | **OSP - 2**

MODEL		MOTOR		PUMP			Motor
60 Hz	Stage	Joining Motor	Power (KW)	Weight Kg	Length C(mm)	E*	OD (mm)
OSP - 2/5(P4)60(4X4)	5	V-4	0.37	3.3	273	101	97
OSP - 2/6(P4)60(4X4)	6	V-4	0.55	3.5	297	101	97
OSP - 2/9(P4)60(4X4)	9	V-4	0.55	4.3	369	101	97
OSP - 2/11(P4)60(4X4)	11	V-4	0.75	4.9	417	101	97
OSP - 2/12(P4)60(4X4)	12	V-4	0.75	5.2	441	101	97
OSP - 2/15(P4)60(4X4)	15	V-4	1.1	6.0	513	101	97
OSP - 2/17(P4)60(4X4)	17	V-4	1.1	6.5	561	101	97
OSP - 2/21(P4)60(4X4)	21	V-4	1.5	7.6	657	101	97
OSP - 2/23(P4)60(4X4)	23	V-4	1.5	8.2	705	101	97
OSP - 2/27(P4)60(4X4)	27	V-4	2.2	9.2	801	101	97
OSP - 2/34(P4)60(4X4)	34	V-4	2.2	12.4	999	101	97

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

FIGURE

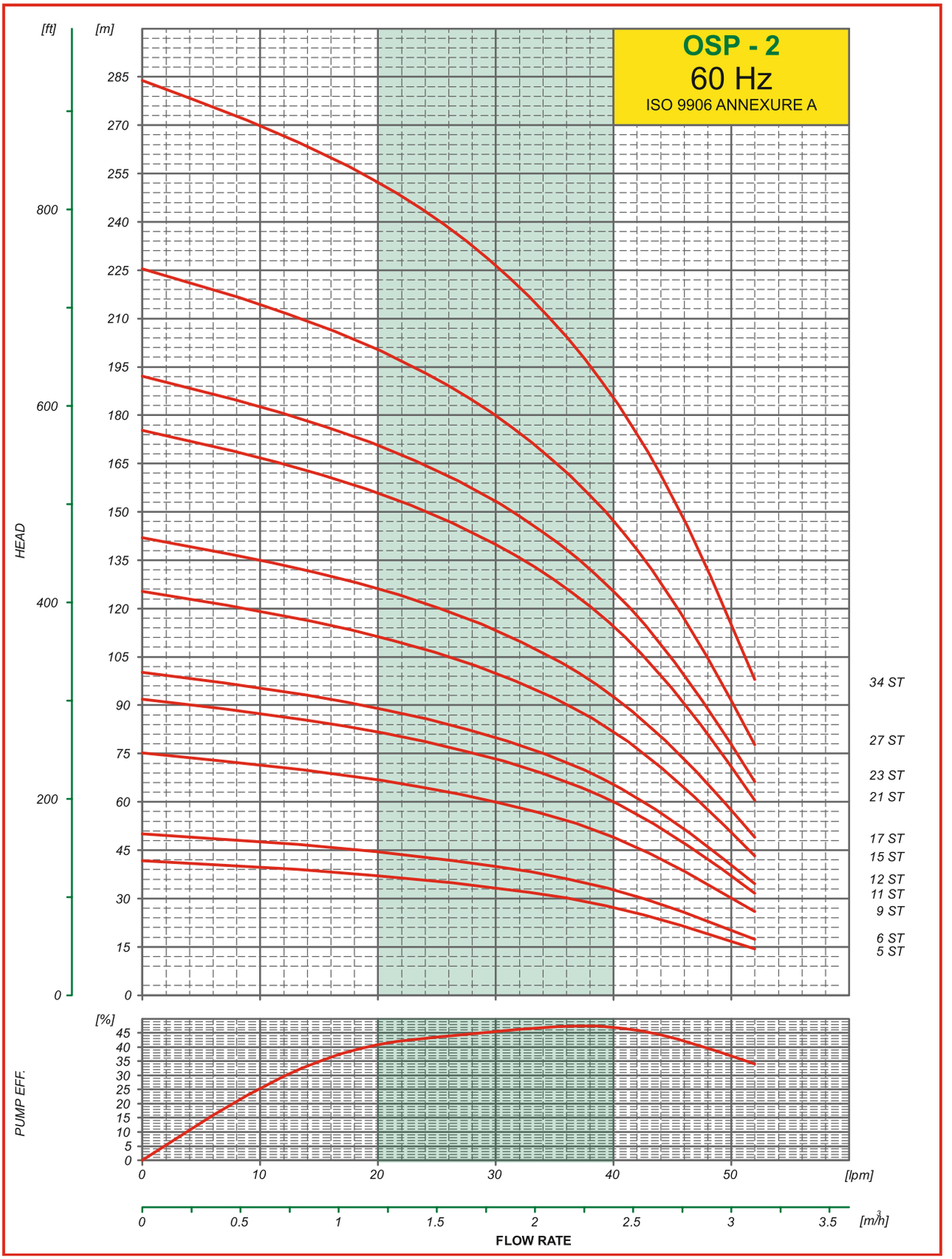


Performance Table

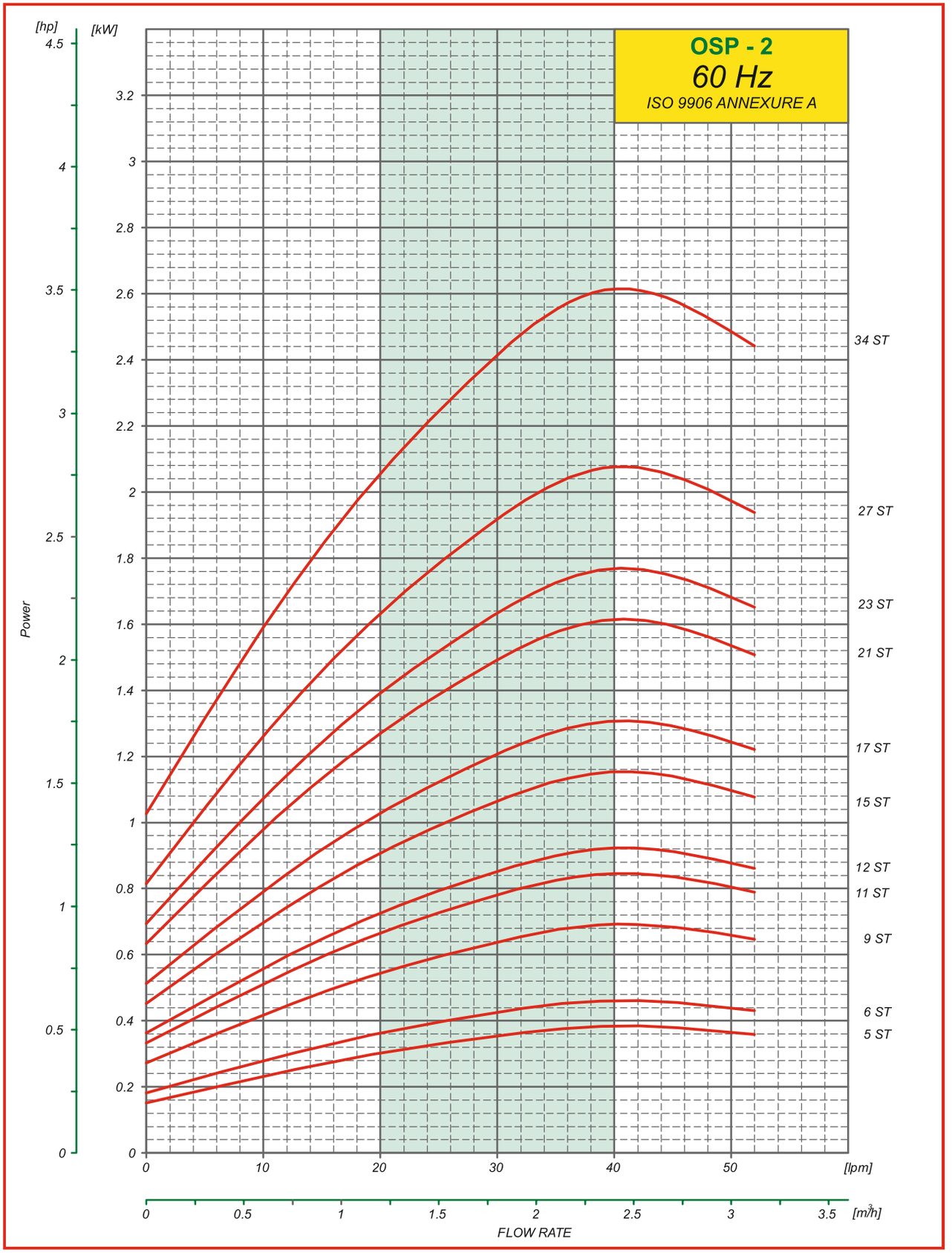
Submersible Pump | **60 Hz** | **OSP - 2**

MODEL	K.W.	H.P.	Stage	Motor joining	Out let Size in inches	Discharge Q					
						M^3/hr.	**0**	0.6	1.2	1.7	**2.4**	3
						USGPM	**0**	2.6412	5.2824	7.4834	10.5648	13.206
						GPM	**0**	**2.2**	**4.4**	**6.2**	**8.8**	**11.0**
60 Hz						LPM	0	10	20	28	**40**	50
OSP - 2/5(P4)60(4X4)	0.37	0.5	5	V-4	1¼''		42	40	37	34	**27**	17
OSP - 2/6(P4)60(4X4)	0.55	0.75	6	V-4	1¼''		50	47	45	41	**33**	20
OSP - 2/9(P4)60(4X4)	0.55	0.75	9	V-4	1¼''		75	71	67	62	**49**	30
OSP - 2/11(P4)60(4X4)	0.75	1	11	V-4	1¼''		92	87	82	75	**60**	37
OSP - 2/12(P4)60(4X4)	0.75	1	12	V-4	1¼''		100	95	89	82	**65**	40
OSP - 2/15(P4)60(4X4)	1.1	1.5	15	V-4	1¼''		125	119	111	103	**82**	50
OSP - 2/17(P4)60(4X4)	1.1	1.5	17	V-4	1¼''		142	134	126	116	**93**	57
OSP - 2/21(P4)60(4X4)	1.5	2	21	V-4	1¼''		175	166	156	144	**114**	70
OSP - 2/23(P4)60(4X4)	1.5	2	23	V-4	1¼''		192	182	171	157	**125**	77
OSP - 2/27(P4)60(4X4)	2.2	3	27	V-4	1¼''		225	213	200	185	**147**	90
OSP - 2/34(P4)60(4X4)	2.2	3	34	V-4	1¼''		284	269	252	233	**185**	113

Performance Curves



Power Curves

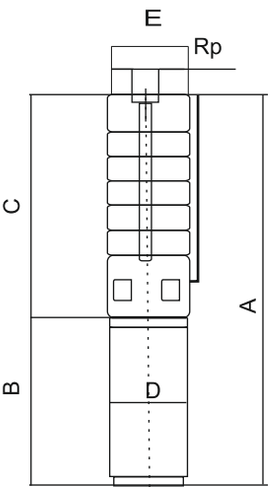


Technical Data

Submersible Pump | **60 Hz** | **OSP - 3**

MODEL 60 Hz	Stage	Motor		PUMP			Motor
		Joining Motor	Power (KW)	Weight Kg	Length C	E*	OD (mm)
OSP - 3/4(P4)60(4X4)	4	V-4	0.37	3.0	249	101	97
OSP - 3/5(P4)60(4X4)	5	V-4	0.55	3.3	273	101	97
OSP - 3/6(P4)60(4X4)	6	V-4	0.55	3.5	297	101	97
OSP - 3/8(P4)60(4X4)	8	V-4	0.75	4.1	345	101	97
OSP - 3/10(P4)60(4X4)	10	V-4	1.1	4.6	393	101	97
OSP - 3/12(P4)60(4X4)	12	V-4	1.1	5.2	441	101	97
OSP - 3/14(P4)60(4X4)	14	V-4	1.5	5.7	489	101	97
OSP - 3/16(P4)60(4X4)	16	V-4	1.5	6.3	537	101	97
OSP - 3/18(P4)60(4X4)	18	V-4	2.2	6.8	585	101	97
OSP - 3/24(P4)60(4X4)	24	V-4	2.2	8.4	729	101	97
OSP - 3/32(P4)60(4X4)	32	V-4	3.0	10.6	921	101	97
OSP - 3/38(P4)60(4X4)	38	V-4	4.0	13.5	1142	101	97
OSP - 3/56(P4)60(4X4)	56	V-4	5.5	17.6	1634	101	97

FIGURE



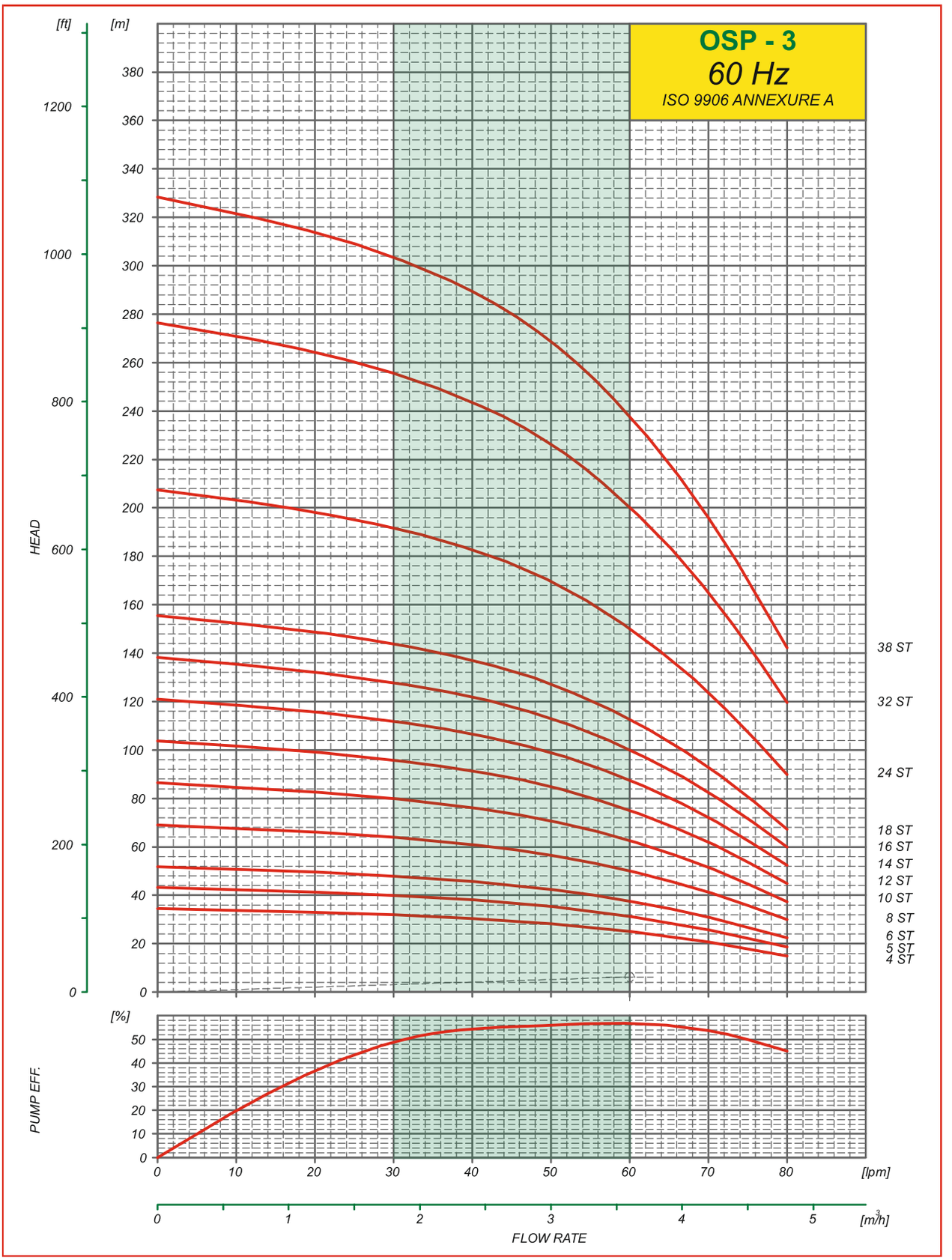
E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE

Performance Table

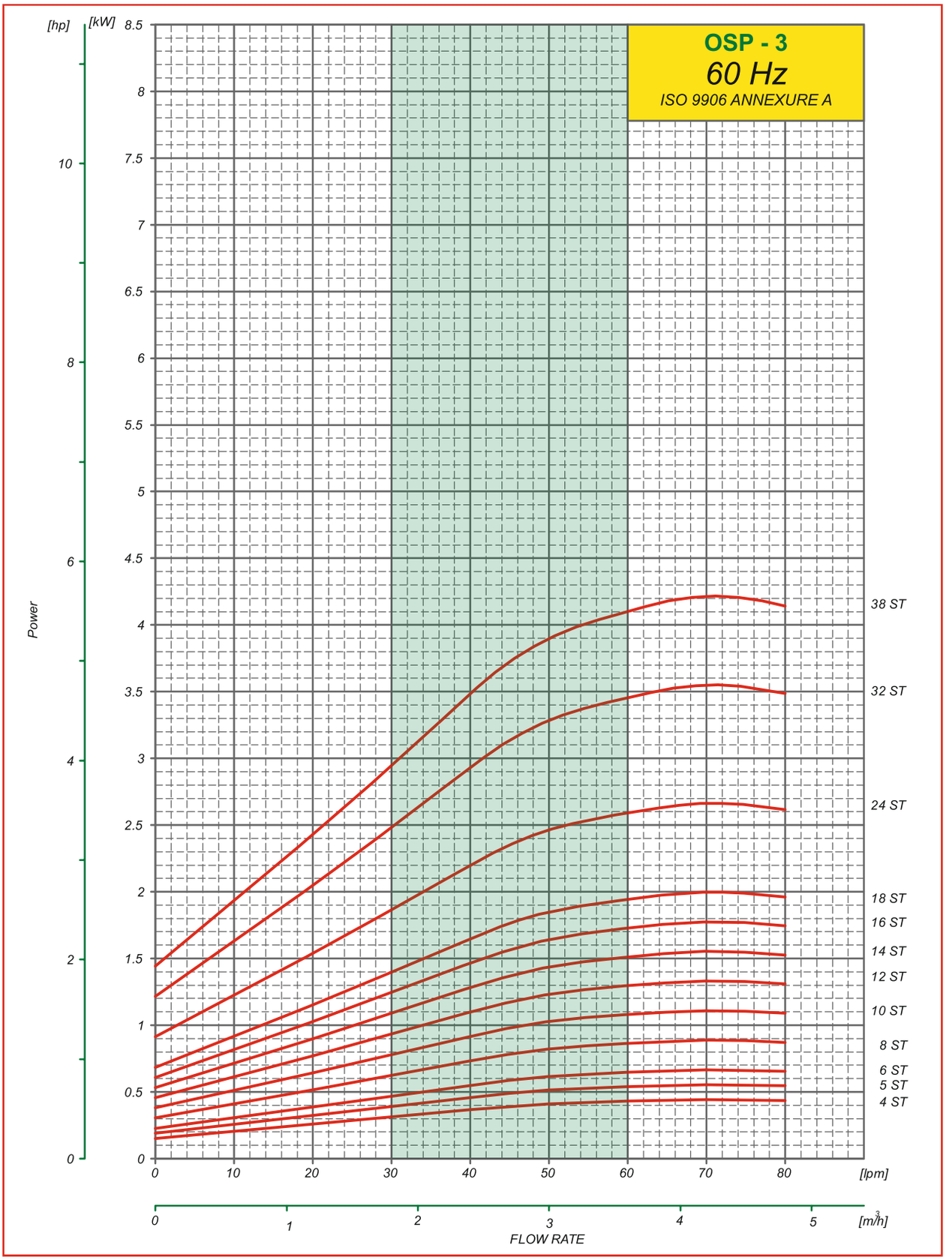
Submersible Pump | **60 Hz** | **OSP - 3**

MODEL 60 Hz	K.W.	H.P.	Stage	Motor joining	Out let Size in inches	Discharge Q						
						M^3/hr.	0	2.2	2.9	3.6	4.3	4.8
						USGPM	0	9.6844	12.7658	15.8472	18.9286	21.1296
						GPM	0	7.9	10.6	13.2	15.8	17.6
						LPM	0	36	48	60	72	80
OSP - 3/4(P4)60(4X4)	0.37	0.5	4	V-4	1½"	A,E,H	35	31	29	25	20	15
OSP - 3/5(P4)60(4X4)	0.55	0.75	5	V-4	1½"		43	39	36	31	25	19
OSP - 3/6(P4)60(4X4)	0.55	0.75	6	V-4	1½"		52	47	43	38	29	22
OSP - 3/8(P4)60(4X4)	0.75	1	8	V-4	1½"		69	62	58	50	39	30
OSP - 3/10(P4)60(4X4)	1.1	1.5	10	V-4	1½"		86	78	72	63	49	37
OSP - 3/12(P4)60(4X4)	1.1	1.5	12	V-4	1½"		104	93	86	75	59	45
OSP - 3/14(P4)60(4X4)	1.5	2	14	V-4	1½"		121	109	101	88	69	52
OSP - 3/16(P4)60(4X4)	1.5	2	16	V-4	1½"		138	124	115	100	78	60
OSP - 3/18(P4)60(4X4)	2.2	3	18	V-4	1½"		156	140	130	113	88	67
OSP - 3/24(P4)60(4X4)	2.2	3	24	V-4	1½"		207	187	173	150	118	90
OSP - 3/32(P4)60(4X4)	3.0	4	32	V-4	1½"		276	249	230	200	157	120
OSP - 3/38(P4)60(4X4)	4.0	5.5	38	V-4	1½"		328	296	274	238	186	142
OSP - 3/56(P4)60(4X4)	5.5	7.5	56	V-4	1½"		484	436	403	351	274	209

Performance Curves



Power Curves

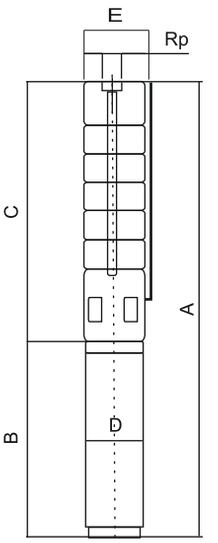


Technical Data

Submersible Pump | **60 Hz** | **OSP - 5**

MODEL 60 Hz	Stage	MOTOR		PUMP			Motor
		Joining Motor	Power (KW)	Weight Kg	Length C(mm)	E*	OD (mm)
OSP - 5/3(P4)60(4X4)	3	V-4	0.55	2.7	225	101	97
OSP - 5/5(P4)60(4X4)	5	V-4	0.75	3.3	273	101	97
OSP - 5/7(P4)60(4X4)	7	V-4	1.1	3.8	321	101	97
OSP - 5/8(P4)60(4X4)	8	V-4	1.1	4.1	345	101	97
OSP - 5/9(P4)60(4X4)	9	V-4	1.5	4.3	369	101	97
OSP - 5/11(P4)60(4X4)	11	V-4	1.5	4.9	417	101	97
OSP - 5/15(P4)60(4X4)	15	V-4	2.2	6.0	513	101	97
OSP - 5/21(P4)60(4X4)	21	V-4	3.0	7.6	657	101	97
OSP - 5/26(P4)60(4X4)	26	V-4	4.0	9.0	777	101	97
OSP - 5/39(P4)60(4X4)	39	V-4	5.5	13.7	1166	101	97
OSP - 5/52(P4)60(4X4)	52	V-4	7.5	17.4	1508	101	97

FIGURE



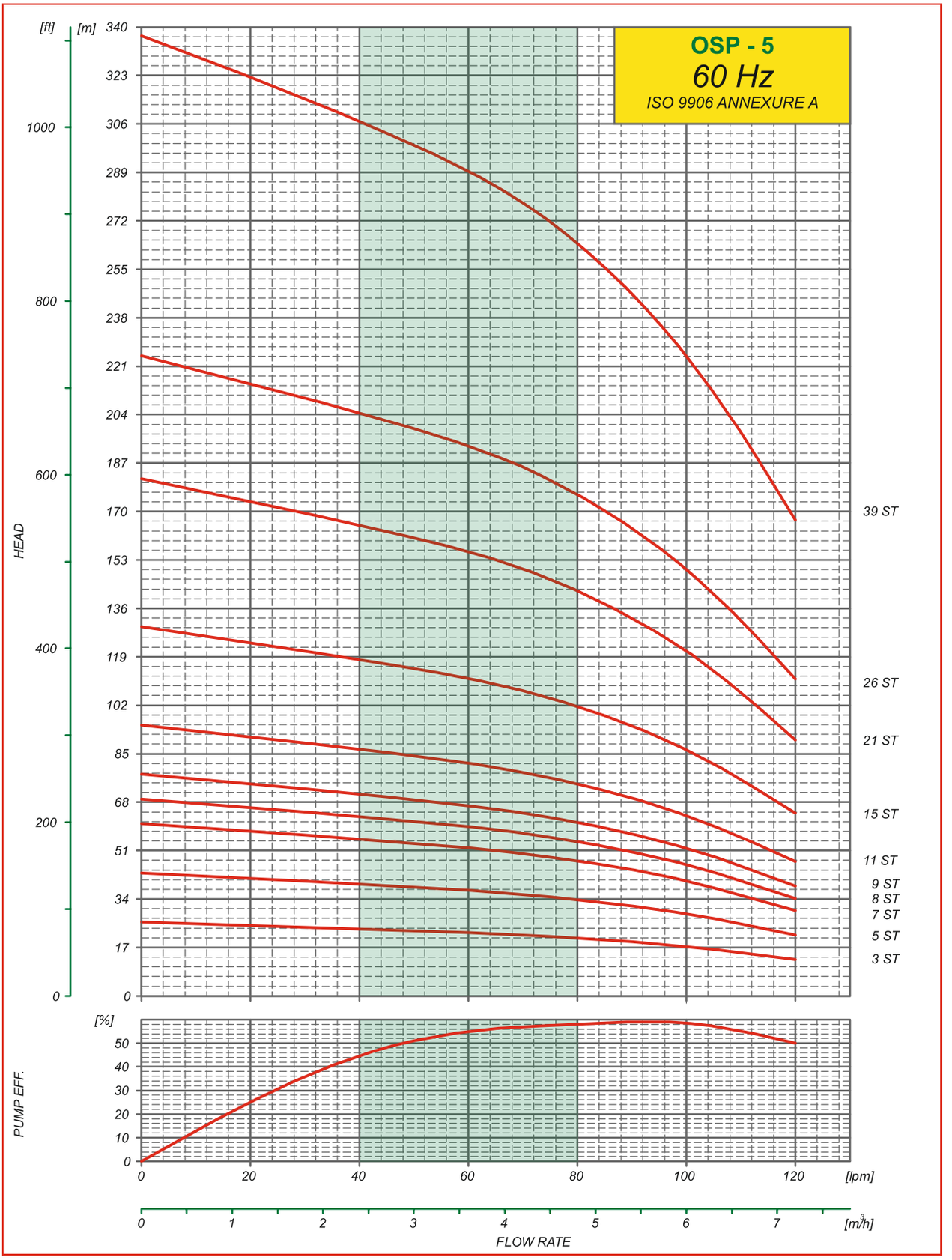
E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE

Performance Table

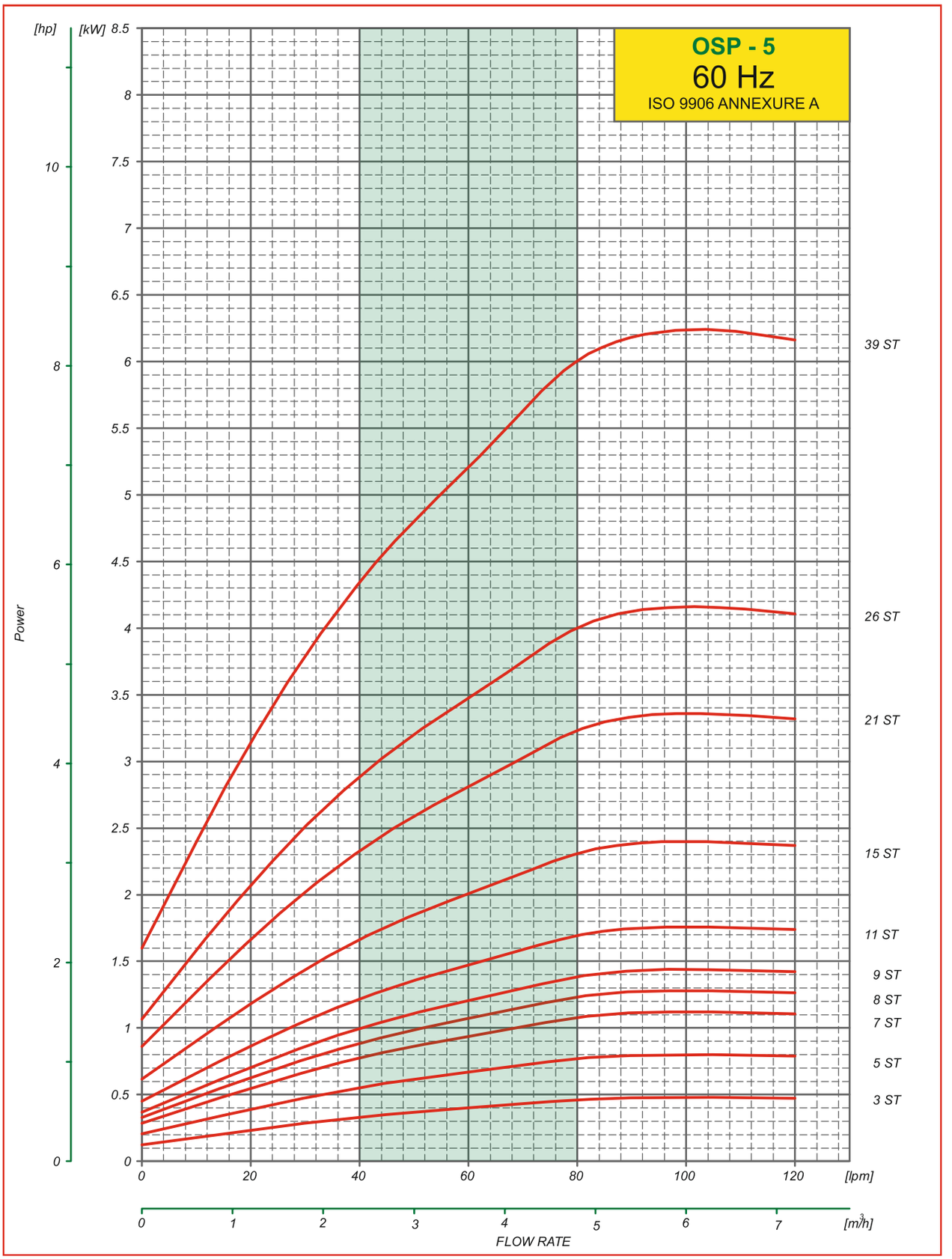
Submersible Pump | **60 Hz** | **OSP - 5**

MODEL 60 Hz	K.W.	H.P.	Stage	Motor joining	Out let Size in inches	Discharge Q						
						M^3/hr.	0	2.9	4.1	4.8	6	7.2
						USGPM	0	12.77	18.05	21.13	26.41	31.69
						GPM	0	10.6	15.0	17.6	22.0	26.4
						LPM	0	48	68	80	100	120
OSP - 5/3(P4)60(4X4)	0.55	0.75	3	V-4	1½"		26	23	22	20	17	13
OSP - 5/5(P4)60(4X4)	0.75	1	5	V-4	1½"		43	39	36	34	29	21
OSP - 5/7(P4)60(4X4)	1.1	1.5	7	V-4	1½"		60	54	50	47	40	30
OSP - 5/8(P4)60(4X4)	1.1	1.5	8	V-4	1½"		69	62	58	54	46	34
OSP - 5/9(P4)60(4X4)	1.5	2	9	V-4	1½"		78	69	65	61	52	39
OSP - 5/11(P4)60(4X4)	1.5	2	11	V-4	1½"		95	85	79	74	63	47
OSP - 5/15(P4)60(4X4)	2.2	3	15	V-4	1½"		130	116	108	102	86	64
OSP - 5/21(P4)60(4X4)	3.0	4	21	V-4	1½"		181	162	151	142	121	90
OSP - 5/26(P4)60(4X4)	4.0	5.5	26	V-4	1½"		225	200	187	176	150	111
OSP - 5/39(P4)60(4X4)	5.5	7.5	39	V-4	1½"		337	300	281	264	225	167
OSP - 5/52(P4)60(4X4)	7.5	10	52	V-4	1½"		449	400	374	352	300	223

Performance Curves



Power Curves

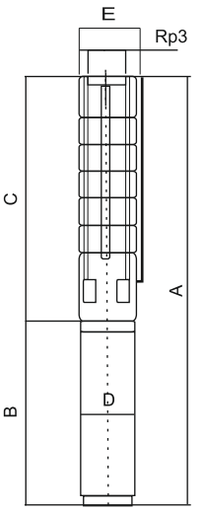


Technical Data

Submersible Pump | **60 Hz** | **OSP - 8+**

MODEL 60 Hz	Stage	MOTOR		PUMP			Motor
		Joining Motor	Power (KW)	Weight Kg	Length C(mm)	E*	OD (mm)
OSP - 8+/3(P4)60(4X4)	3	V-4	0.75	4.0	357	101	97
OSP - 8+/5(P4)60(4X4)	5	V-4	1.1	5.3	457	101	97
OSP - 8+/7(P4)60(4X4)	7	V-4	1.5	6.5	557	101	97
OSP - 8+/9(P4)60(4X4)	9	V-4	2.2	7.8	657	101	97
OSP - 8+/12(P4)60(4X4)	12	V-4	3.0	9.7	807	101	97
OSP - 8+/15(P4)60(4X4)	15	V-4	4.0	11.6	957	101	97
OSP - 8+/18(P4)60(4X4)	18	V-4	5.5	13.5	1107	101	97
OSP - 8+/21(P4)60(4X4)	21	V-4	5.5	15.4	1257	101	97
OSP - 8+/25(P4)60(4X4)	25	V-4	5.5	18.0	1457	101	97
OSP - 8+/30(P4)60(6X4)	30	V-6	7.5	22.6	1780	143	144

FIGURE



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

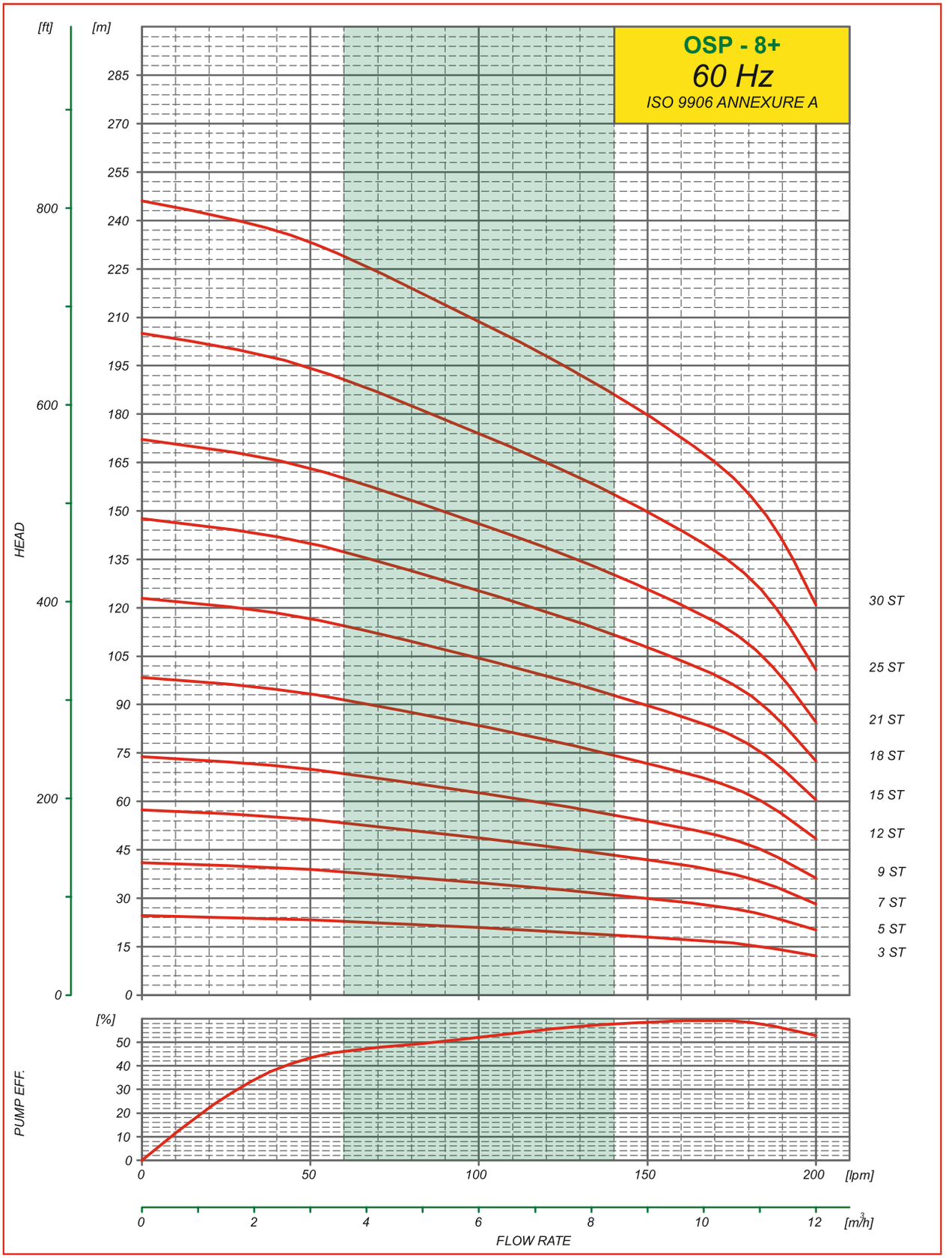
FROM : 18 STAGE TO 25 STAGE ALSO AVAILABLE WITH 6"MOTOR JOINING (6X4)

Performance Table

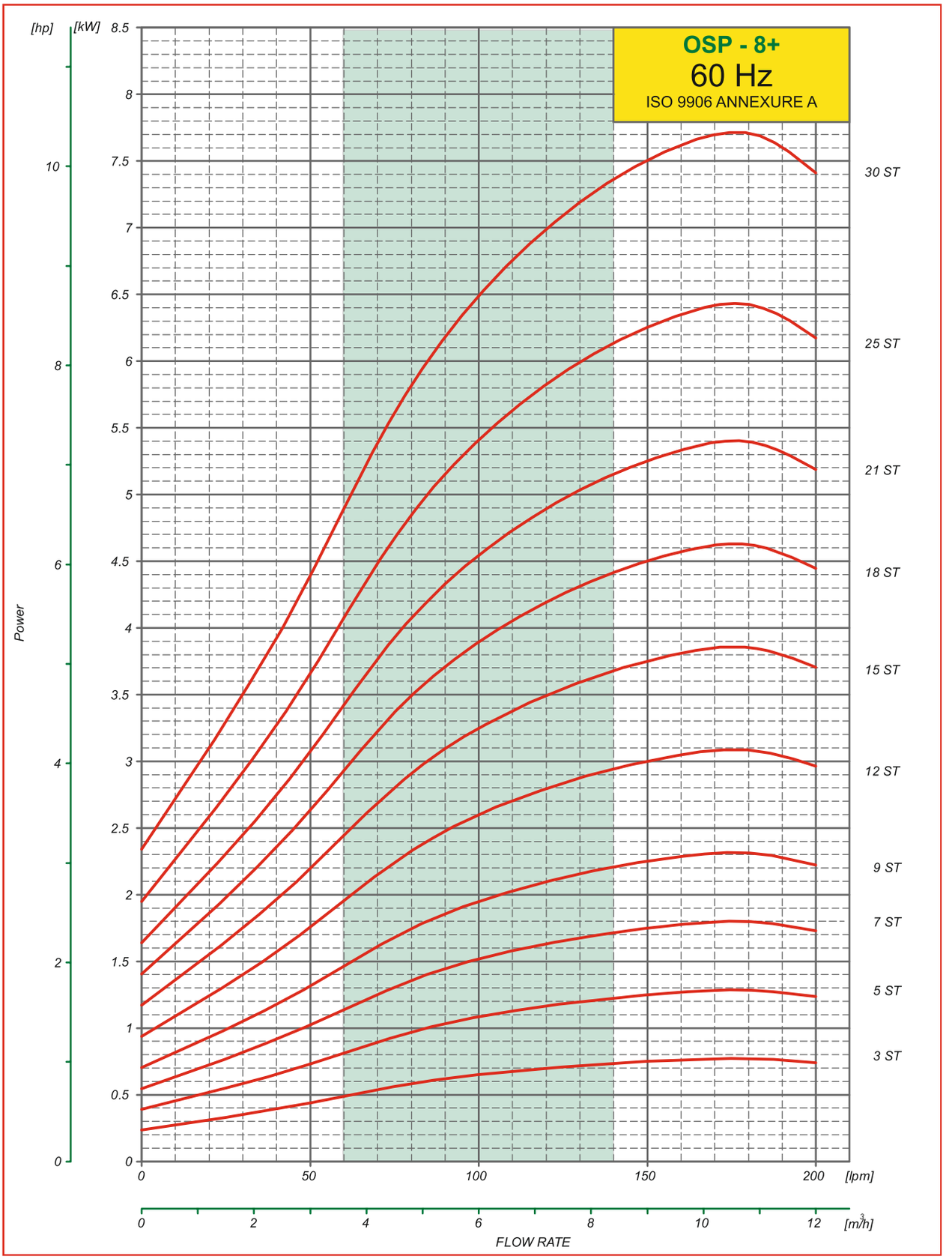
Submersible Pump | **60 Hz** | **OSP - 8+**

MODEL 60 Hz	K.W.	H.P.	Stage	Motor joining	Out let Size in inches	Discharge Q					
						M^3/hr.	**0**	4.8	7.2	**9.6**	10.8	12
						USGPM	**0**	21.13	31.69	42.26	47.54	52.82
						GPM	**0**	**17.6**	**26.4**	**35.2**	**39.6**	**44.0**
						LPM	0	80	120	**160**	180	200
OSP - 8+/3(P4)60(4X4)	0.75	1	3	V-4	2"		25	22	20	**17**	16	12
OSP - 8+/5(P4)60(4X4)	1.1	1.5	5	V-4	2"		41	37	33	**29**	26	20
OSP - 8+/7(P4)60(4X4)	1.5	2	7	V-4	2"		57	51	46	**40**	36	28
OSP - 8+/9(P4)60(4X4)	2.2	3	9	V-4	2"		74	66	59	**52**	47	36
OSP - 8+/12(P4)60(4X4)	3.0	4	12	V-4	2"		98	88	79	**69**	62	48
OSP - 8+/15(P4)60(4X4)	4.0	5.5	15	V-4	2"		123	110	99	**86**	78	60
OSP - 8+/18(P4)60(4X4)	5.5	7.5	18	V-4	2"		148	131	119	**104**	93	73
OSP - 8+/21(P4)60(4X4)	5.5	7.5	21	V-4	2"		172	153	139	**121**	109	85
OSP - 8+/25(P4)60(4X4)	5.5	7.5	25	V-4	2"		205	183	165	**144**	130	101
OSP - 8+/30(P4)60(6X4)	7.5	10	30	**V-6**	2"		246	219	198	**173**	155	121

Performance Curves



Power Curves

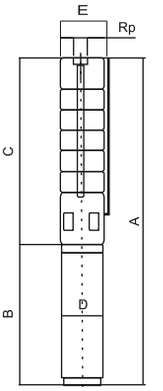


Technical Data

Submersible Pump | **60 Hz** | **OSP - 14**

MODEL 60 Hz	Stage	MOTOR		PUMP			Motor
		Joining Motor	Power (KW)	Weight Kg	Length C	E*	OD (mm)
OSP - 14/3(P4)60(4X4)	3	V-4	1.5	**4.4**	402	101	97
OSP - 14/5(P4)60(4X4)	5	V-4	2.2	**5.9**	532	101	97
OSP - 14/8(P4)60(4X4)	8	V-4	4.0	**8.2**	727	101	97
OSP - 14/12(P4)60(4X4)	12	V-4	5.5	**11.2**	987	101	97
OSP- 14/16(P4)60(6X4)	16	V-6	7.5	14.5	1320	143	144

FIGURE



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

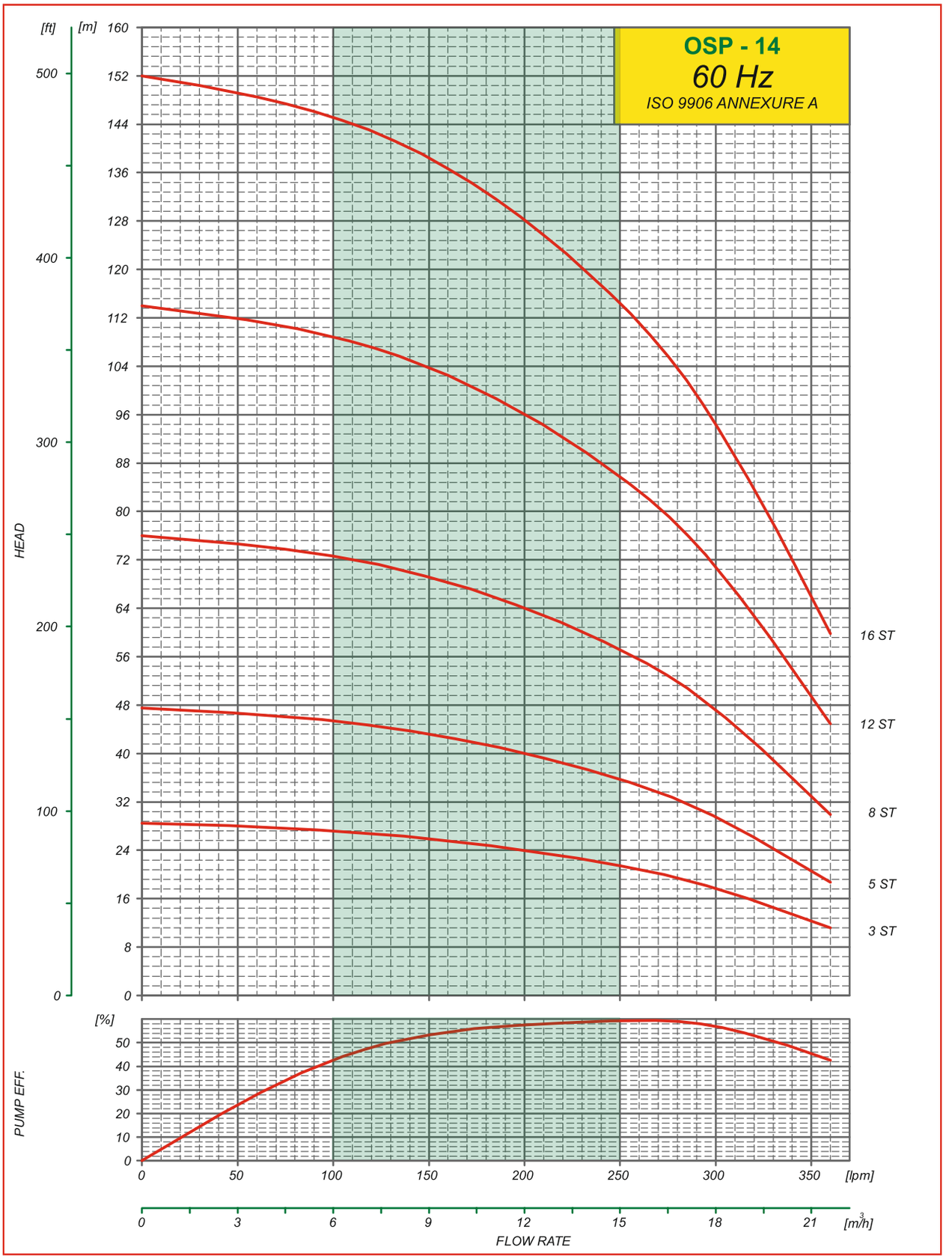
FROM : 12 STAGE TO 16 STAGE ALSO AVAILABLE WITH 6" MOTOR JOINING (6X4)

Performance Table

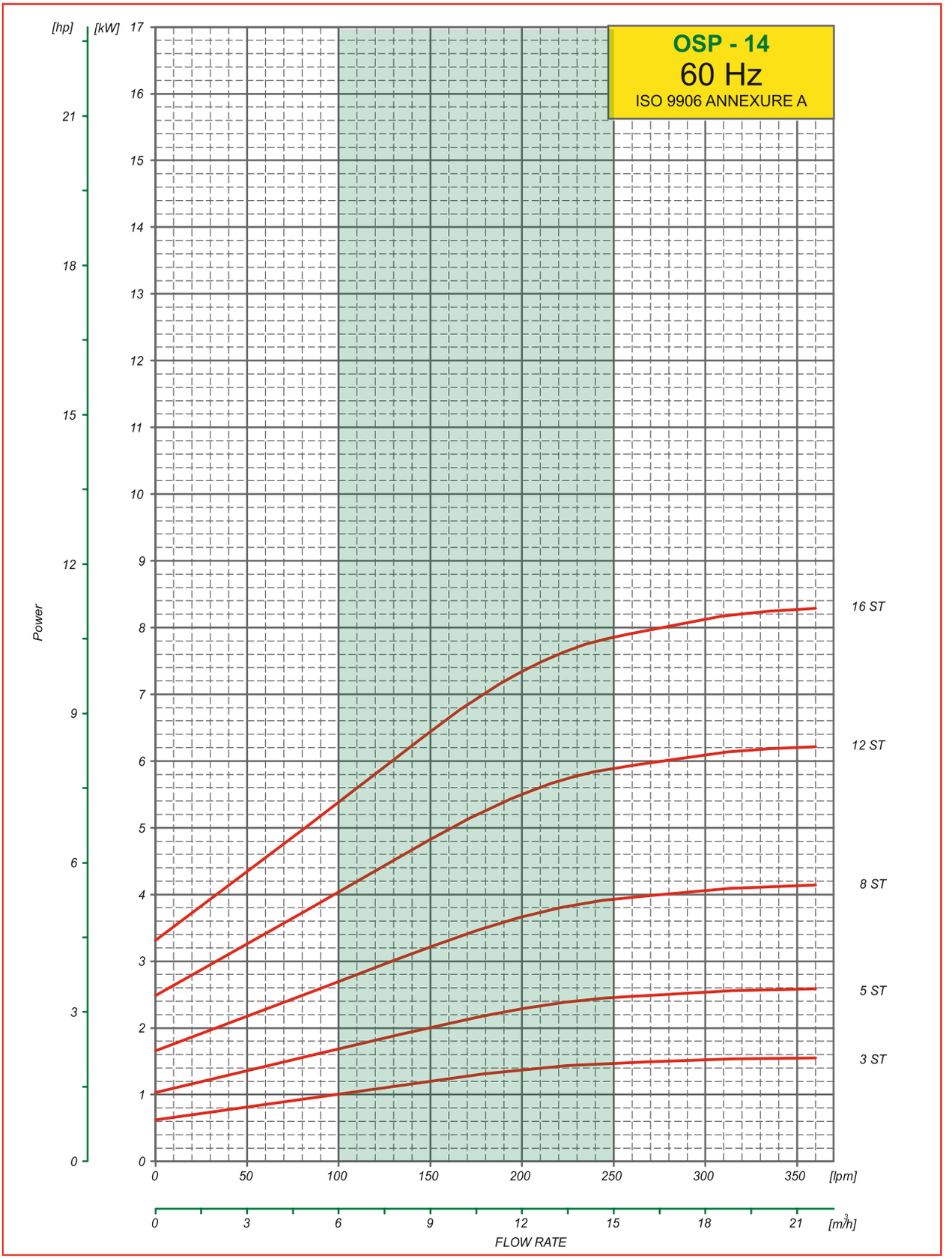
Submersible Pump | **60 Hz** | **OSP - 14**

MODEL 60 Hz	K.W.	H.P.	Stage	Motor joining	Out let Size in inches	Discharge Q						
						M^3/hr.	**0**	7.2	14.4	**16.8**	18	21.6
						USGPM	**0**	31.7	63.4	74.0	79.2	95.1
						GPM	**0**	**26.4**	**52.8**	**61.6**	**66.0**	**79.2**
						LPM	0	120	240	**280**	300	360
OSP - 14/3(P4)60(4X4)	1.5	2	3	V-4	2"		29	27	22	**19**	18	11
OSP - 14/5(P4)60(4X4)	2.2	3	5	V-4	2"		48	45	37	**32**	30	19
OSP - 14/8(P4)60(4X4)	4.0	5.5	8	V-4	2"		76	71	59	**52**	47	30
OSP - 14/12(P4)60(4X4)	5.5	7.5	12	V-4	2"		114	107	88	**78**	71	45
OSP- 14/16(P4)60(6X4)	7.5	10	16	**V-6**	2"	ಕಾರ್ಯಕ್ಷಮತೆ	152	143	117	**104**	94	60

Performance Curves



Power Curves



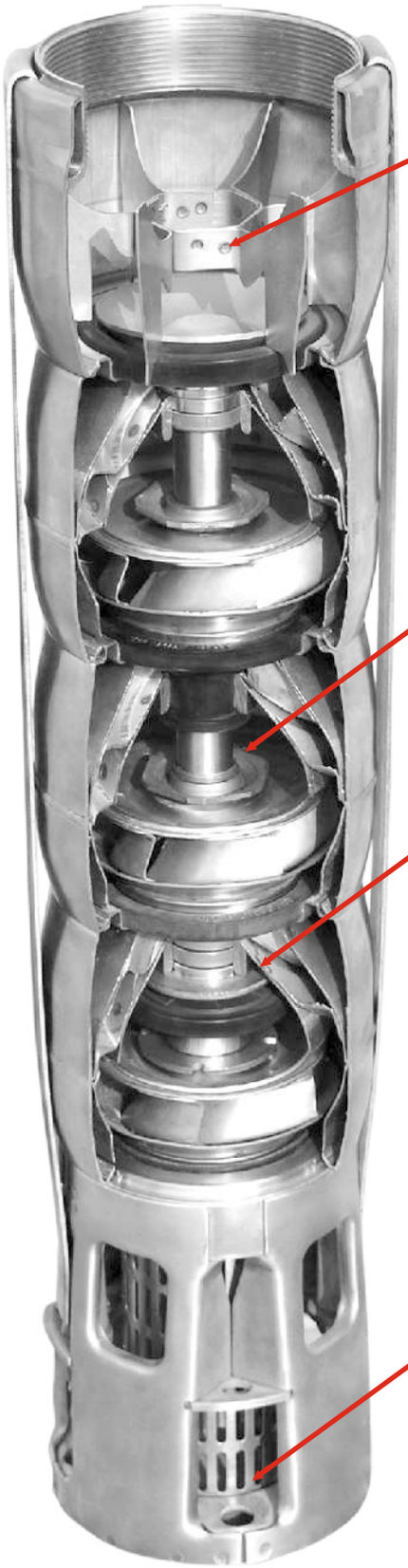
OSWAL STAR

6”

Submersible Pump

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

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 Ambient temperature : 50°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

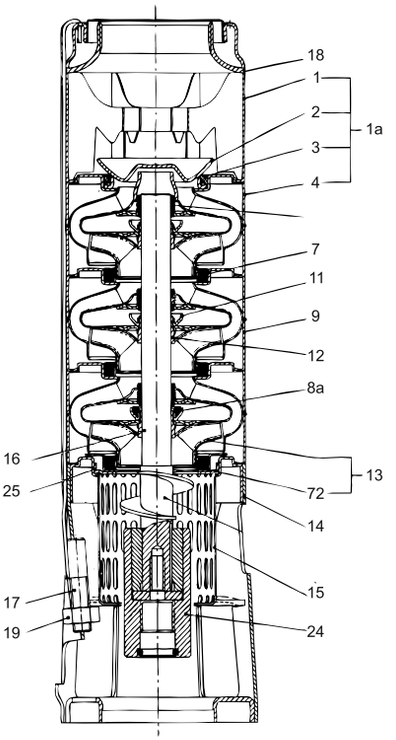
Also available in NPT connection

Material of Construction

MATERIAL SPECIFICATION OSP 9

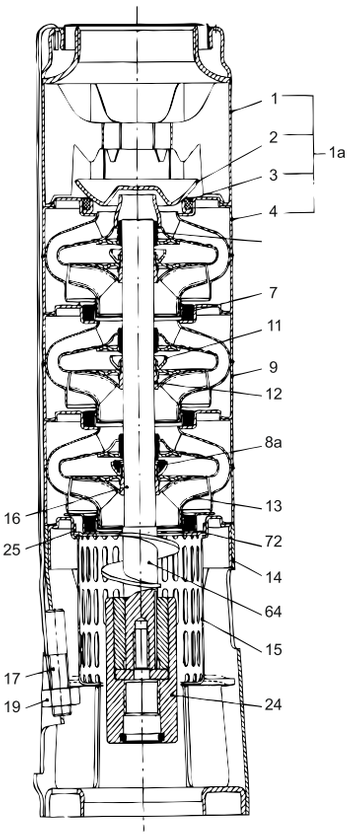
S.No.	Components	Material	Standard
1	Valve casing	Stainless steel	304
la	Discharge chamber complete	Stainless steel	304
2	Valve cup	Stainless steel	304
3	Valve seat	Stainless steel	
4	Top intermediate chamber	Stainless steel	304
7	Neck ring	NBR/PPS	
9	Spacing washer	Cabron /graphite Hy 22 in PTFE mass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

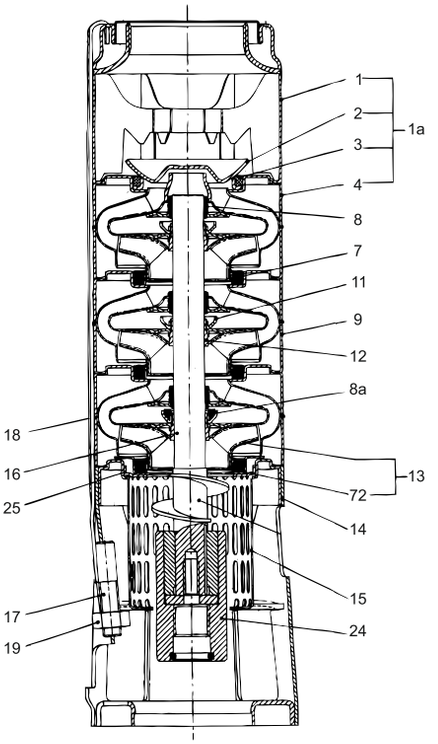


Material of Construction

MATERIAL SPECIFICATION OSP -17

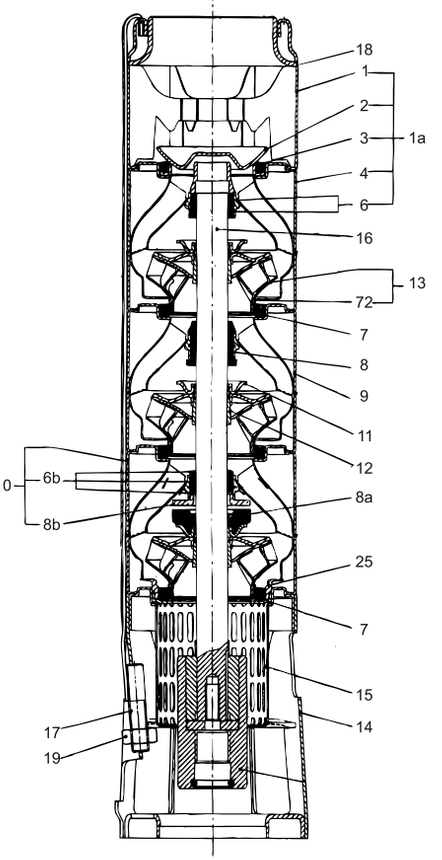
S.No.	Components	Material	Standard
1	Valve casing	Stainless steel	304
la	Discharge chamber complete	Stainless steel	304
2	Valve cup	Stainless steel	304
3	Valve seat	Stainless steel + NBR	
4	Top intermediate chamber	Stainless steel	304
7	Neck ring	NBR/Stainless steel	
8a	Spacing washer	Cabron /graphite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

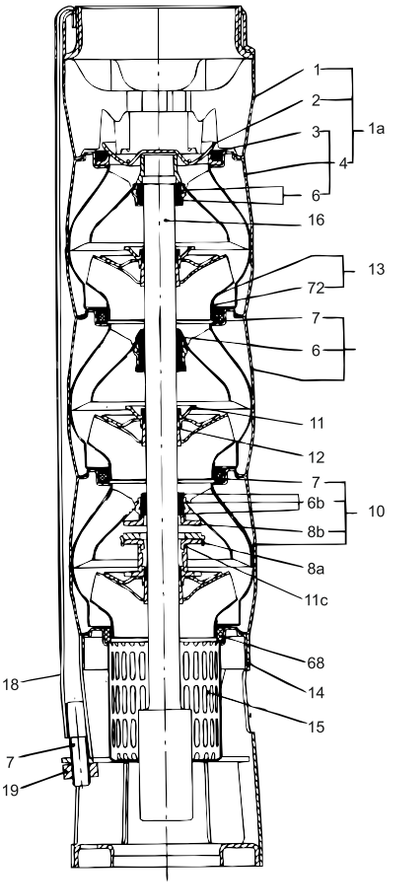


Material of Construction

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
11c	Nut for stop ring	Stainless steel	304
12	Split cone	Stainless steel	304
13	Impeller	Stainless steel	304
14	Suction interconnector	Stainless steel	304
15	Strainer	Stainless steel	431
16	Pump shaft	Stainless steel	304
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

Submersible Pump | **60 Hz** | **OSP - 9**

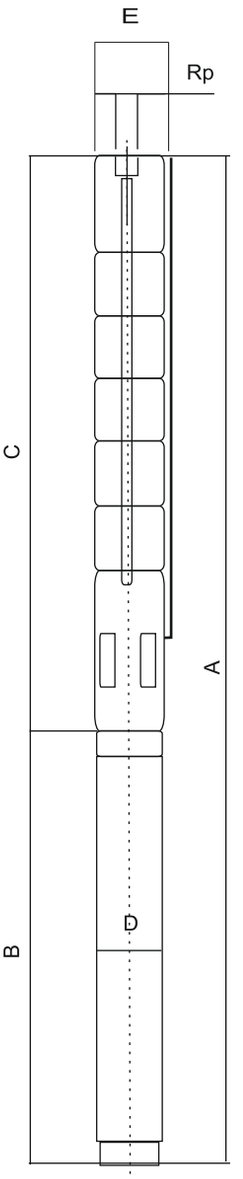
MODEL 60 Hz	K.W.	H.P.	Stage	Motor joining	Out let Size in inches	Discharge Q						
						M^3/hr.	0	7.2	**10.8**	14.4	18	21.6
						USGPM	**0**	31.7	47.5	63.4	79.2	95.1
						GPM	**0**	**26.4**	**39.6**	**52.8**	**66.0**	**79.2**
						LPM	0	120	**180**	240	300	360
OSP-9/1(P4)60(4X6)	0.75	1	1	V-4	2"	A.E.H	15	14	**13**	11	9	8
OSP-9/2(P4)60(4X6)	1.50	2	2	V-4	2"		30	28	**25**	22	18	15
OSP-9/3(P4)60(4X6)	2.20	3	3	V-4	2"		45	42	**38**	32	27	23
OSP-9/4(P4)60(6X6)	3.0	4	4	V-6	2"		60	56	**51**	43	36	31
OSP-9/5(P4)60(6X6)	3.0	4	5	V-6	2"		76	71	**63**	54	45	38
OSP-9/6(P4)60(6X6)	3.7	5	6	V-6	2"		91	85	**76**	65	54	46
OSP-9/7(P4)60(6X6)	4.5	6	7	V-6	2"		106	99	**89**	76	63	54
OSP-9/8(P4)60(6X6)	5.5	7.5	8	V-6	2"		121	113	**101**	86	71	62
OSP-9/9(P4)60(6X6)	5.5	7.5	9	V-6	2"		136	127	**114**	97	80	69
OSP-9/10(P4)60(6X6)	7.5	10	10	V-6	2"		151	141	**127**	108	89	77
OSP-9/11(P4)60(6X6)	7.5	10	11	V-6	2"		166	155	**139**	119	98	85
OSP - 9/12(P4)60(6X6)	9.3	12.5	12	V-6	2"		181	169	**152**	130	107	92
OSP - 9/13(P4)60(6X6)	9.3	12.5	13	V-6	2"		197	183	**165**	140	116	100
OSP - 9/14(P4)60(6X6)	9.3	12.5	14	V-6	2"		212	198	**177**	151	125	108
OSP - 9/15(P4)60(6X6)	11.0	15	15	V-6	2"		227	212	**190**	162	134	115
OSP - 9/16(P4)60(6X6)	11.0	15	16	V-6	2"		242	226	**203**	173	143	123
OSP - 9/17(P4)60(6X6)	11.0	15	17	V-6	2"		257	240	**215**	184	152	131
OSP - 9/18(P4)60(6X6)	13.0	17.5	18	V-6	2"		272	254	**228**	194	161	138
OSP - 9/19(P4)60(6X6)	13.0	17.5	19	V-6	2"		287	268	**241**	205	170	146
OSP - 9/20(P4)60(6X6)	13.0	17.5	20	V-6	2"		302	282	**253**	216	179	154
OSP - 9/21(P4)60(6X6)	15.0	20	21	V-6	2"		318	296	**266**	227	188	161
OSP - 9/22(P4)60(6X6)	15.0	20	22	V-6	2"		333	310	**279**	238	196	169
OSP - 9/23(P4)60(6X6)	15.0	20	23	V-6	2"		348	325	**291**	248	205	177
OSP - 9/24(P4)60(6X6)	18.5	25	24	V-6	2"		363	339	**304**	259	214	185
OSP - 9/25(P4)60(6X6)	18.5	25	25	V-6	2"		378	353	**317**	270	223	192
OSP - 9/26(P4)60(6X6)	18.5	25	26	V-6	2"		393	367	**329**	281	232	200
OSP - 9/27(P4)60(6X6)	18.5	25	27	V-6	2"		408	381	**342**	292	241	208
OSP - 9/28(P4)60(6X6)	18.5	25	28	V-6	2"		423	395	**355**	302	250	215
OSP - 9/29(P4)60(6X6)	18.5	25	29	V-6	2"		438	409	**367**	313	259	223

Technical Data

Submersible Pump | **60 Hz** | **OSP - 09**

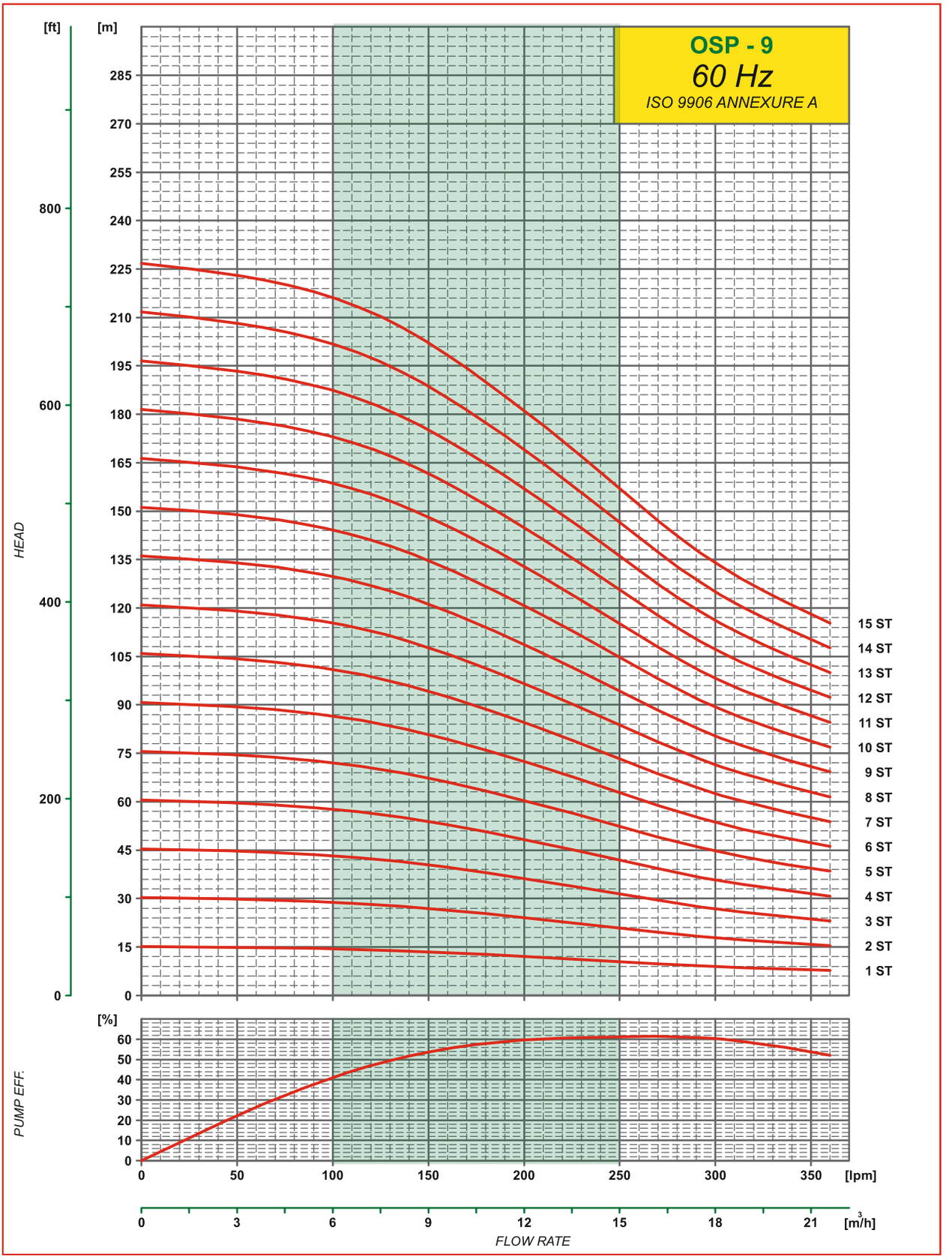
MODEL 60 Hz	Stage	MOTOR		PUMP				Motor
		Joining Motor	Power (KW)	Weight Kg	Length C(mm)	E* (mm)	E** (mm)	OD (mm)
OSP-9/1(P4)60(4X6)	1	V-4	0.75	5.6	336	131		97
OSP-9/2(P4)60(4X6)	2	V-4	1.50	6.8	397	131		97
OSP-9/3(P4)60(4X6)	3	V-4	2.20	8.1	458	131		97
OSP-9/4(P4)60(6X6)	4	V-6	3.0	10.5	519	131	145	146
OSP-9/5(P4)60(6X6)	5	V-6	3.0	11.6	580	131	145	146
OSP-9/6(P4)60(6X6)	6	V-6	3.7	12.9	641	131	145	146
OSP-9/7(P4)60(6X6)	7	V-6	4.5	14.1	702	131	145	146
OSP-9/8(P4)60(6X6)	8	V-6	5.5	15.3	763	131	145	146
OSP-9/9(P4)60(6X6)	9	V-6	5.5	16.6	824	131	145	146
OSP-9/10(P4)60(6X6)	10	V-6	7.5	17.8	885	131	145	146
OSP-9/11(P4)60(6X6)	11	V-6	7.5	19.1	946	143	145	146
OSP - 9/12(P4)60(6X6)	12	V-6	9.3	20.3	1007	143	145	146
OSP - 9/13(P4)60(6X6)	13	V-6	9.3	21.5	1068	143	145	146
OSP - 9/14(P4)60(6X6)	14	V-6	9.3	22.8	1129	143	145	146
OSP - 9/15(P4)60(6X6)	15	V-6	11.0	24.0	1190	143	145	146
OSP - 9/16(P4)60(6X6)	16	V-6	11.0	25.3	1251	143	145	146
OSP - 9/17(P4)60(6X6)	17	V-6	11.0	26.5	1312	143	145	146
OSP - 9/18(P4)60(6X6)	18	V-6	13.0	27.8	1373	143	145	146
OSP - 9/19(P4)60(6X6)	19	V-6	13.0	29.0	1434	143	145	146
OSP - 9/20(P4)60(6X6)	20	V-6	13.0	30.2	1495	143	145	146
OSP - 9/21(P4)60(6X6)	21	V-6	15.0	31.5	1556	143	145	146
OSP - 9/22(P4)60(6X6)	22	V-6	15.0	32.7	1617	143	145	146
OSP - 9/23(P4)60(6X6)	23	V-6	15.0	34.0	1678	143	145	146
OSP - 9/24(P4)60(6X6)	24	V-6	18.5	35.2	1739	143	145	146
OSP - 9/25(P4)60(6X6)	25	V-6	18.5	36.4	1800	143	145	146
OSP - 9/26(P4)60(6X6)	26	V-6	18.5	37.7	1861	143	145	146
OSP - 9/27(P4)60(6X6)	27	V-6	18.5	38.9	1922	143	145	146
OSP - 9/28(P4)60(6X6)	28	V-6	18.5	40.2	1983	143	145	146
OSP - 9/29(P4)60(6X6)	29	V-6	18.5	41.4	2044	143	145	146

FIGURE

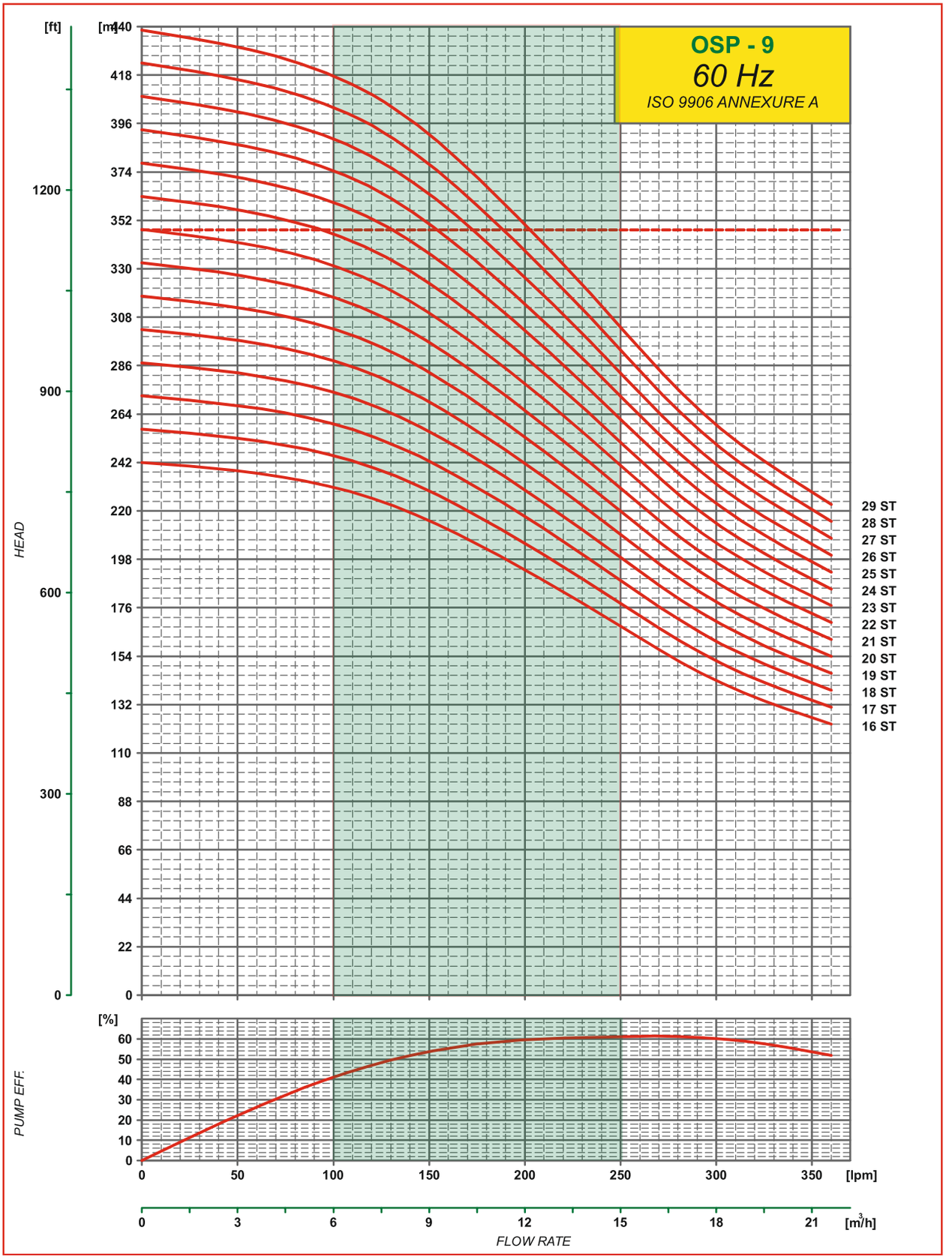


E*: MAX.DIA OF PUMP WITH ONE MOTOR CABLE
E**: MAX.DIA OF PUMP WITH TWO MOTOR CABLE
FROM : 4 STAGE TO 11 STAGE ALSO AVAILABLE WITH 4" MOTOR JOINING (4X6)

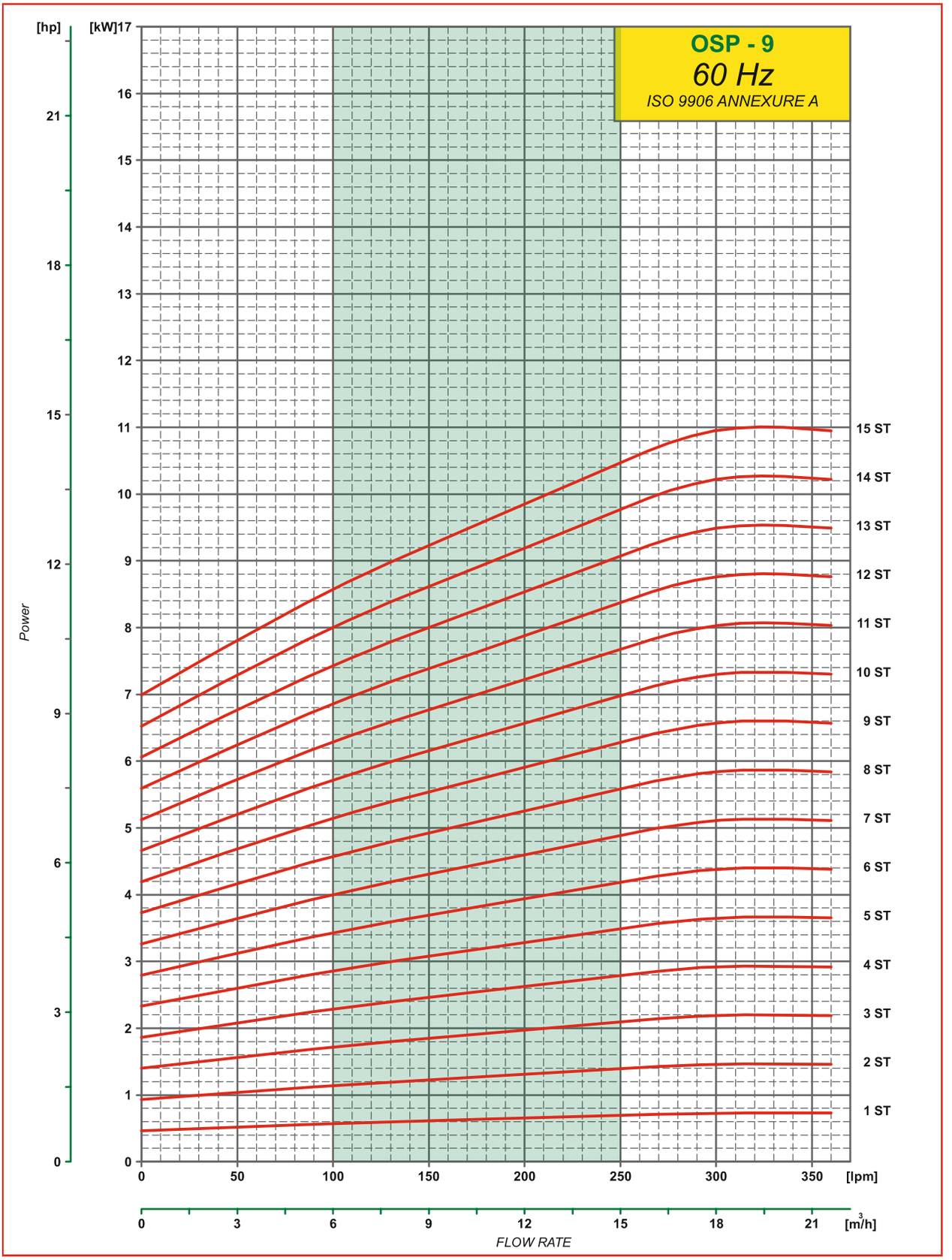
Performance Curves



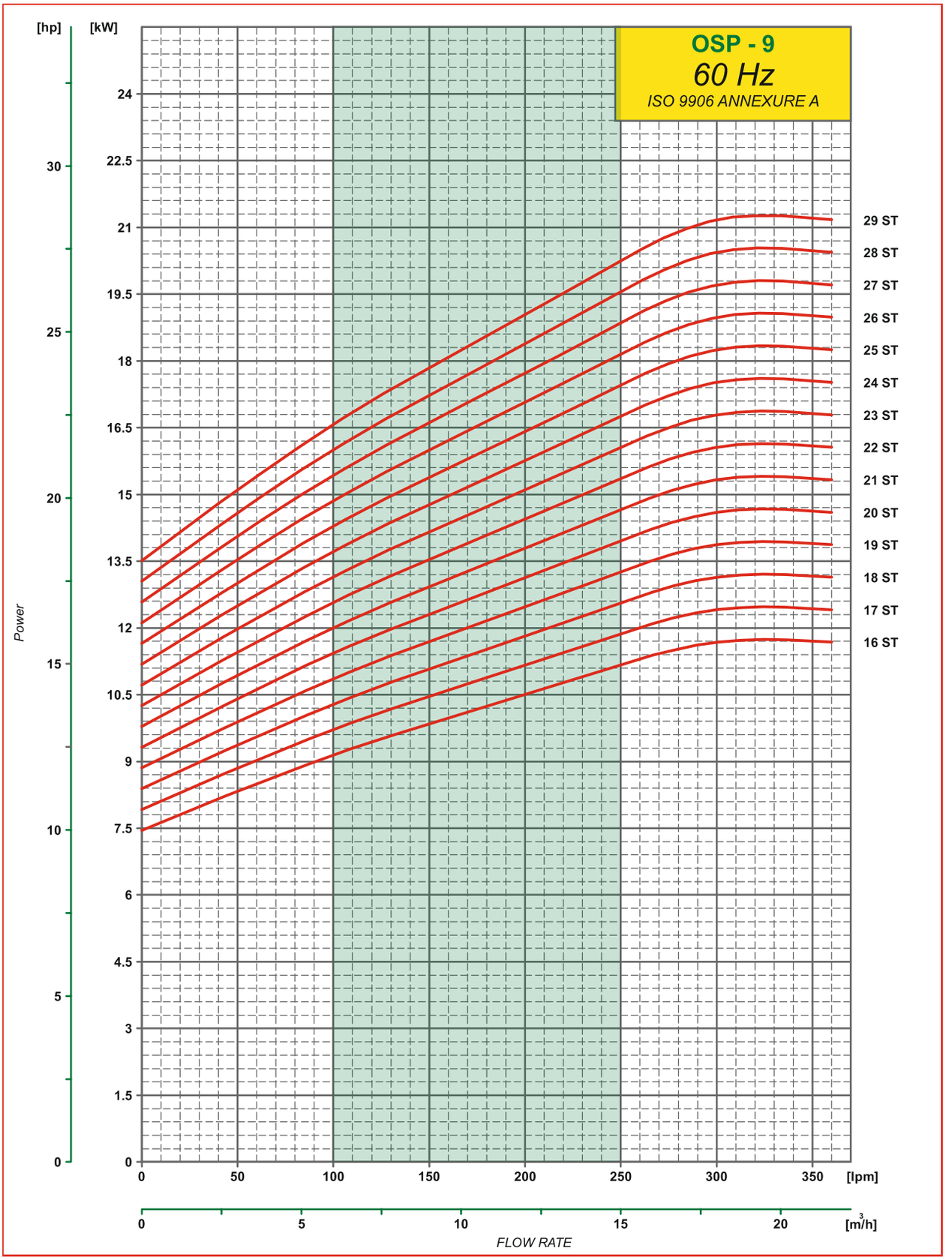
Performance Curves



Power Curves



Power Curves



Performance Table

Submersible Pump | **60 Hz** | **OSP - 12**

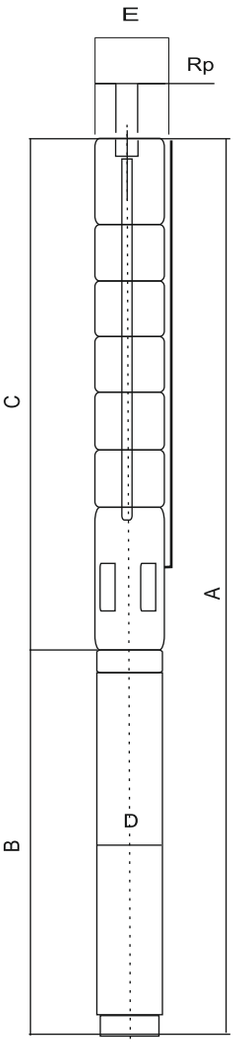
MODEL 60 Hz	K.W.	H.P.	Stage	Motor joining	Out let Size in inches	Discharge						
						M^3/hr	0	7.2	10.8	**14.4**	18	21.6
						USGPM	**0**	31.69	47.54	63.39	79.24	95.08
						GPM	**0**	**26.4**	**39.6**	**52.8**	**66.0**	**79.2**
						LPM	0	120	180	**240**	300	360
OSP-12/1(P4)60(4X6)	0.75	1	1	V-4	2"	HEAD	15	14	14	**12**	11	9
OSP-12/2(P4)60(4X6)	1.50	2	2	V-4	2"		30	29	27	**24**	22	17
OSP-12/3(P4)60(4X6)	2.20	3	3	V-4	2"		45	43	41	**37**	32	26
OSP-12/4(P4)60(6X6)	3.00	4	4	V-6	2"		60	58	55	**49**	43	35
OSP-12/5(P4)60(6X6)	3.7	5	5	V-6	2"		76	72	68	**61**	54	43
OSP-12/6(P4)60(6X6)	4.5	6	6	V-6	2"		91	87	82	**73**	65	52
OSP-12/7(P4)60(6X6)	5.5	7.5	7	V-6	2"		106	101	96	**86**	76	60
OSP-12/8(P4)60(6X6)	5.5	7.5	8	V-6	2"		121	116	109	**98**	86	69
OSP-12/9(P4)60(6X6)	7.5	10	9	V-6	2"		136	130	123	**110**	97	78
OSP-12/10(P4)60(6X6)	7.5	10	10	V-6	2"		151	144	137	**122**	108	86
OSP - 12/11(P4)60(6X6)	7.5	10	11	V-6	2"		166	159	150	**135**	119	95
OSP - 12/12(P4)60(6X6)	9.3	12.5	12	V-6	2"		181	173	164	**147**	130	104
OSP - 12/13(P4)60(6X6)	9.3	12.5	13	V-6	2"		197	188	178	**159**	140	112
OSP - 12/14(P4)60(6X6)	11.0	15	14	V-6	2"		212	202	192	**171**	151	121
OSP - 12/15(P4)60(6X6)	11.0	15	15	V-6	2"		227	217	205	**184**	162	130
OSP - 12/16(P4)60(6X6)	11.0	15	16	V-6	2"		242	231	219	**196**	173	138
OSP - 12/17(P4)60(6X6)	13.0	17.5	17	V-6	2"		257	245	233	**208**	184	147
OSP - 12/18(P4)60(6X6)	13.0	17.5	18	V-6	2"		272	260	246	**220**	194	156
OSP - 12/19(P4)60(6X6)	13.0	17.5	19	V-6	2"		287	274	260	**233**	205	164
OSP - 12/20(P4)60(6X6)	15.0	20	20	V-6	2"		302	289	274	**245**	216	173
OSP - 12/21(P4)60(6X6)	15.0	20	21	V-6	2"		318	303	287	**257**	227	181
OSP - 12/22(P4)60(6X6)	15.0	20	22	V-6	2"		333	318	301	**269**	238	190
OSP - 12/23(P4)60(6X6)	18.5	25	23	V-6	2"		348	332	315	**282**	248	199
OSP - 12/24(P4)60(6X6)	18.5	25	24	V-6	2"		363	347	328	**294**	259	207
OSP - 12/25(P4)60(6X6)	18.5	25	25	V-6	2"		378	361	342	**306**	270	216
OSP - 12/26(P4)60(6X6)	18.5	25	26	V-6	2"		393	375	356	**318**	281	225
OSP - 12/27(P4)60(6X6)	22.0	30	27	V-6	2"		408	390	369	**330**	292	233
OSP - 12/28(P4)60(6X6)	22.0	30	28	V-6	2"		423	404	383	**343**	302	242
OSP - 12/29(P4)60(6X6)	22.0	30	29	V-6	2"		438	419	397	**355**	313	251
OSP - 12/30(P4)60(6X6)	22.0	30	30	V-6	2"		454	433	410	**367**	324	259
OSP - 12/31(P4)60(6X6)	22.0	30	31	V-6	2"		469	448	424	**379**	335	268
OSP - 12/32(P4)60(6X6)	22.0	30	32	V-6	2"		484	462	438	**392**	346	276

Technical Data

Submersible Pump | **60 Hz** | **OSP - 12**

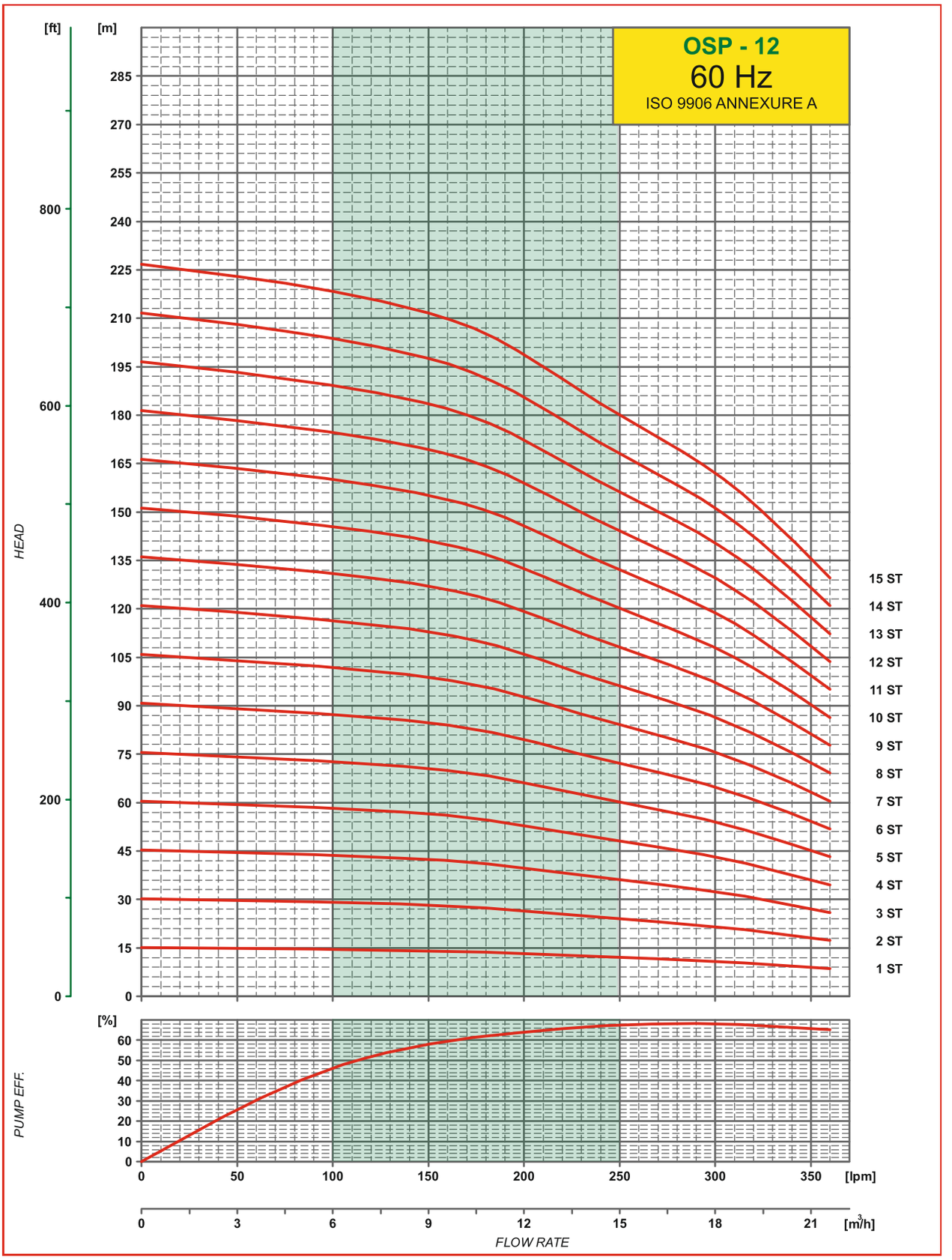
MODEL 60 Hz	Stage	MOTOR		PUMP				Motor
		Joining Motor	Power (KW)	Weight Kg	Length C(mm)	E* (mm)	E** (mm)	OD (mm)
OSP-12/1(P4)60(4X6)	1	V-4	0.75	5.6	336	131		97
OSP-12/2(P4)60(4X6)	2	V-4	1.50	6.8	397	131		97
OSP-12/3(P4)60(4X6)	3	V-4	2.20	8.1	458	131		97
OSP-12/4(P4)60(6X6)	4	V-6	3.00	10.5	519	143	145	146
OSP-12/5(P4)60(6X6)	5	V-6	3.7	11.7	580	143	145	146
OSP-12/6(P4)60(6X6)	6	V-6	4.5	13.0	641	143	145	146
OSP-12/7(P4)60(6X6)	7	V-6	5.5	14.2	702	143	145	146
OSP-12/8(P4)60(6X6)	8	V-6	5.5	15.5	763	143	145	146
OSP-12/9(P4)60(6X6)	9	V-6	7.5	16.8	824	143	145	146
OSP-12/10(P4)60(6X6)	10	V-6	7.5	18.0	885	143	145	146
OSP -12/11(P4)60(6X6)	11	V-6	7.5	19.3	946	143	145	146
OSP -12/12(P4)60(6X6)	12	V-6	9.3	20.5	1007	143	145	146
OSP -12/13(P4)60(6X6)	13	V-6	9.3	21.8	1068	143	145	146
OSP -12/14(P4)60(6X6)	14	V-6	11.0	23.1	1129	143	145	146
OSP - 12/15(P4)60(6X6)	15	V-6	11.0	24.3	1190	143	145	146
OSP - 12/16(P4)60(6X6)	16	V-6	11.0	25.6	1251	143	145	146
OSP - 12/17(P4)60(6X6)	17	V-6	13.0	26.9	1312	143	145	146
OSP - 12/18(P4)60(6X6)	18	V-6	13.0	28.1	1373	143	145	146
OSP - 12/19(P4)60(6X6)	19	V-6	13.0	29.4	1434	143	145	146
OSP - 12/20(P4)60(6X6)	20	V-6	15.0	30.6	1495	143	145	146
OSP - 12/21(P4)60(6X6)	21	V-6	15.0	31.9	1556	143	145	146
OSP - 12/22(P4)60(6X6)	22	V-6	15.0	33.2	1617	143	145	146
OSP - 12/23(P4)60(6X6)	23	V-6	18.5	34.4	1678	143	145	146
OSP - 12/24(P4)60(6X6)	24	V-6	18.5	35.7	1739	143	145	146
OSP - 12/25(P4)60(6X6)	25	V-6	18.5	36.9	1800	143	145	146
OSP - 12/26(P4)60(6X6)	26	V-6	18.5	38.2	1861	143	145	146
OSP - 12/27(P4)60(6X6)	27	V-6	22.0	39.5	1922	143	145	146
OSP - 12/28(P4)60(6X6)	28	V-6	22.0	40.7	1983	143	145	146
OSP - 12/29(P4)60(6X6)	29	V-6	22.0	42.0	2044	143	145	146
OSP - 12/30(P4)60(6X6)	30	V-6	22.0	43.2	2105	143	145	146
OSP - 12/31(P4)60(6X6)	31	V-6	22.0	44.5	2166	143	145	146
OSP - 12/32(P4)60(6X6)	32	V-6	22.0	45.8	2227	143	145	146

FIGURE

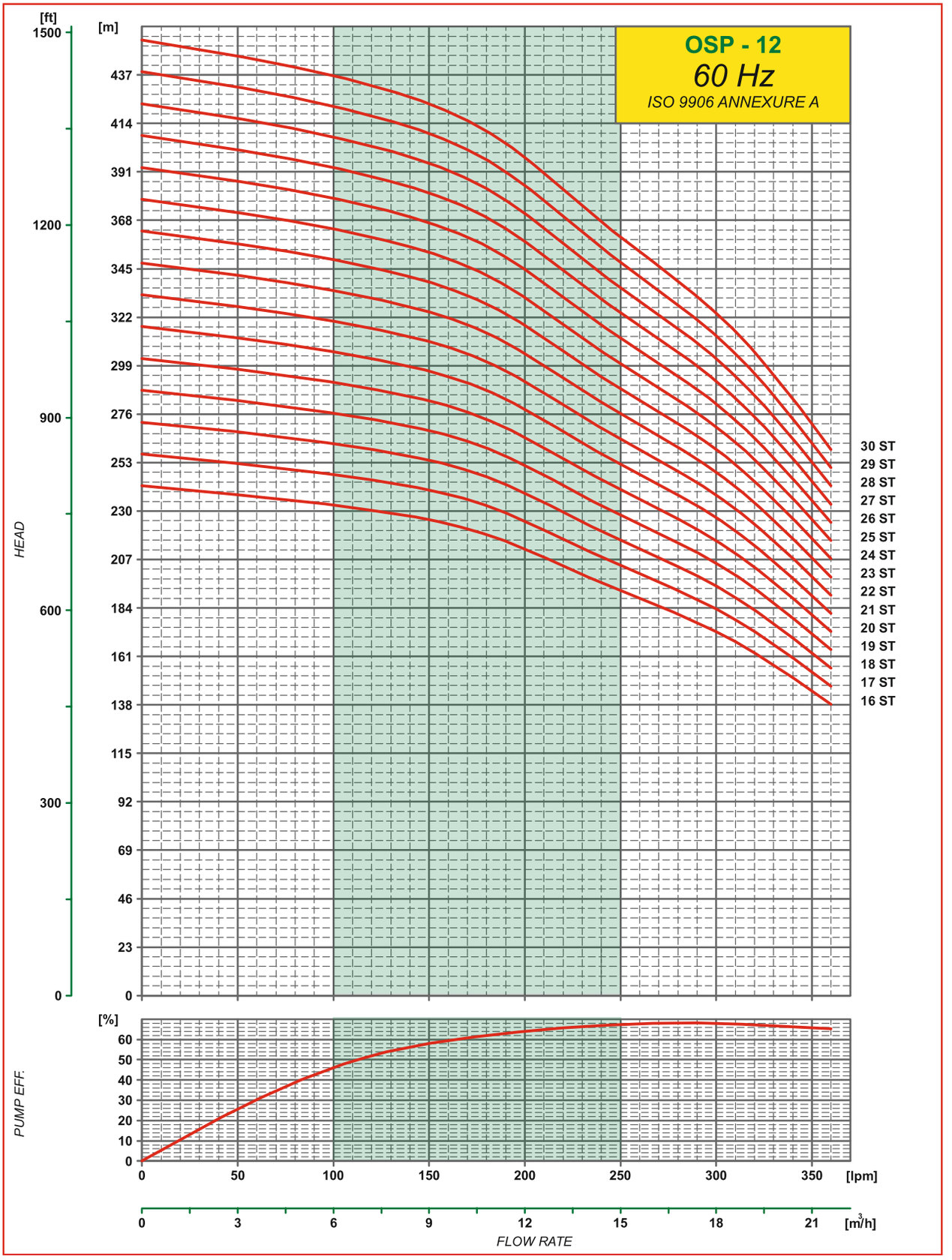


E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE
E** : MAX.DIA OF PUMP WITH TWO MOTOR CABLE
FROM : 4 STAGE TO 11 STAGE ALSO AVAILABLE WITH 4" MOTOR JOINING (4X6)

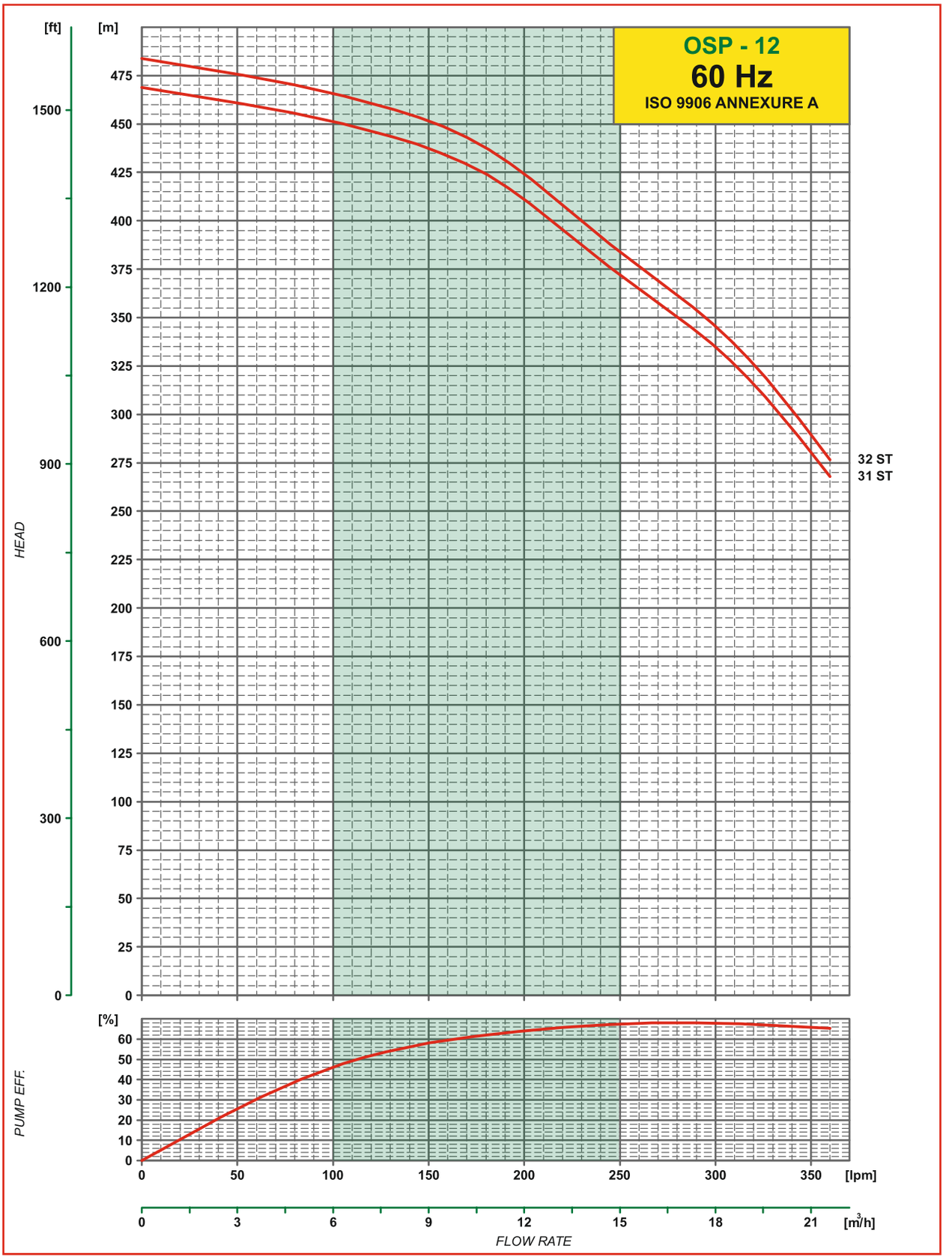
Performance Curves



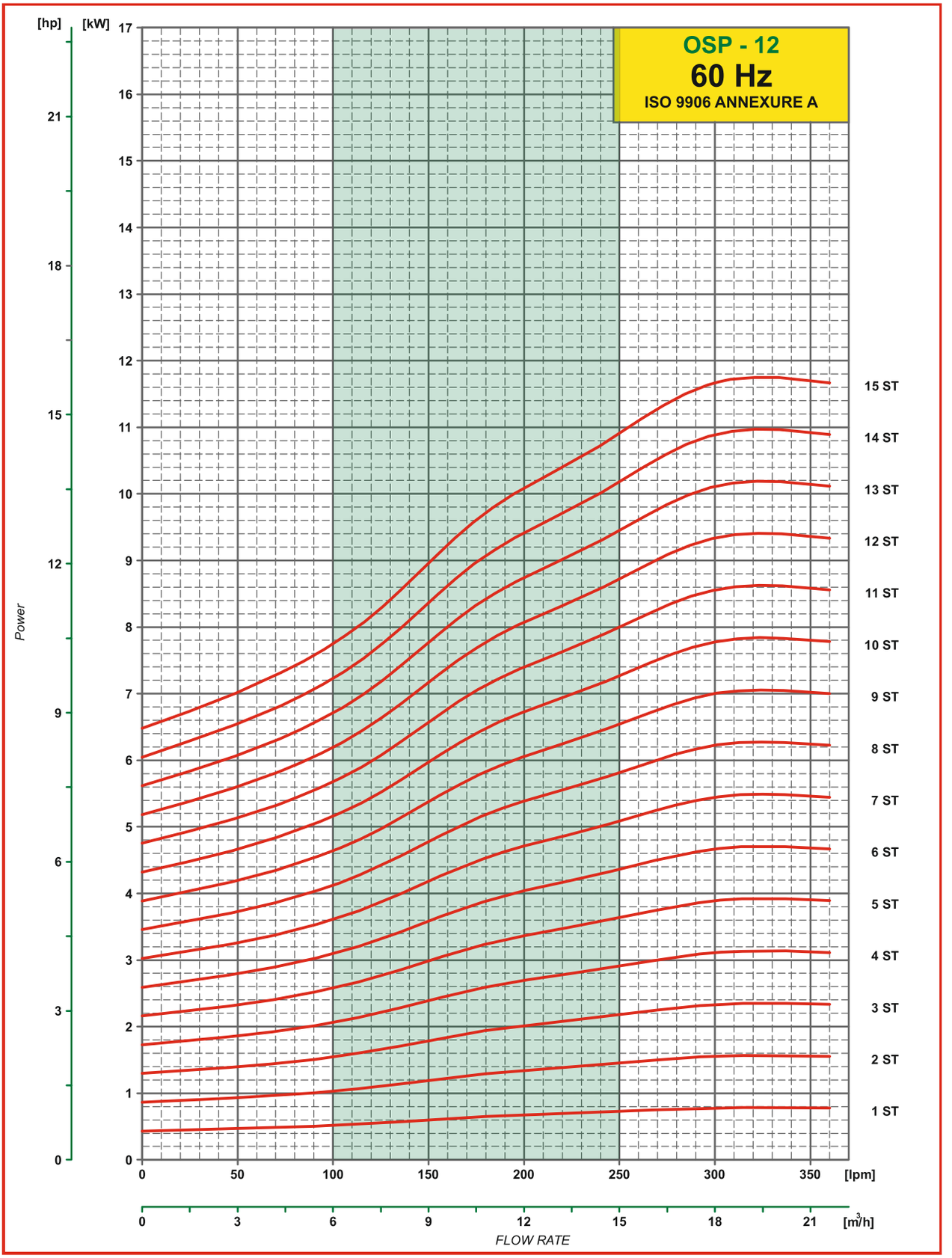
Performance Curves



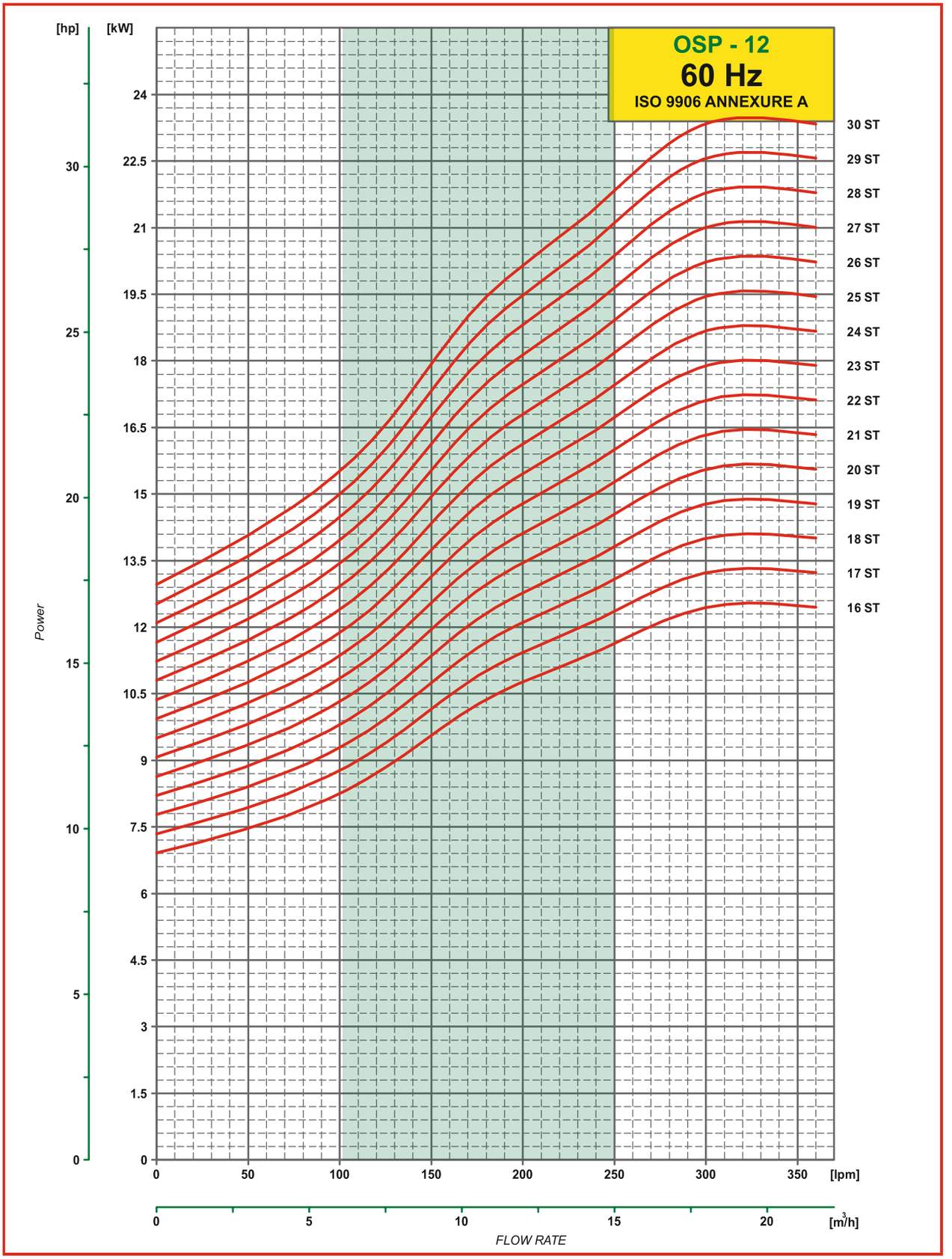
Performance Curves



Power Curves



Power Curves



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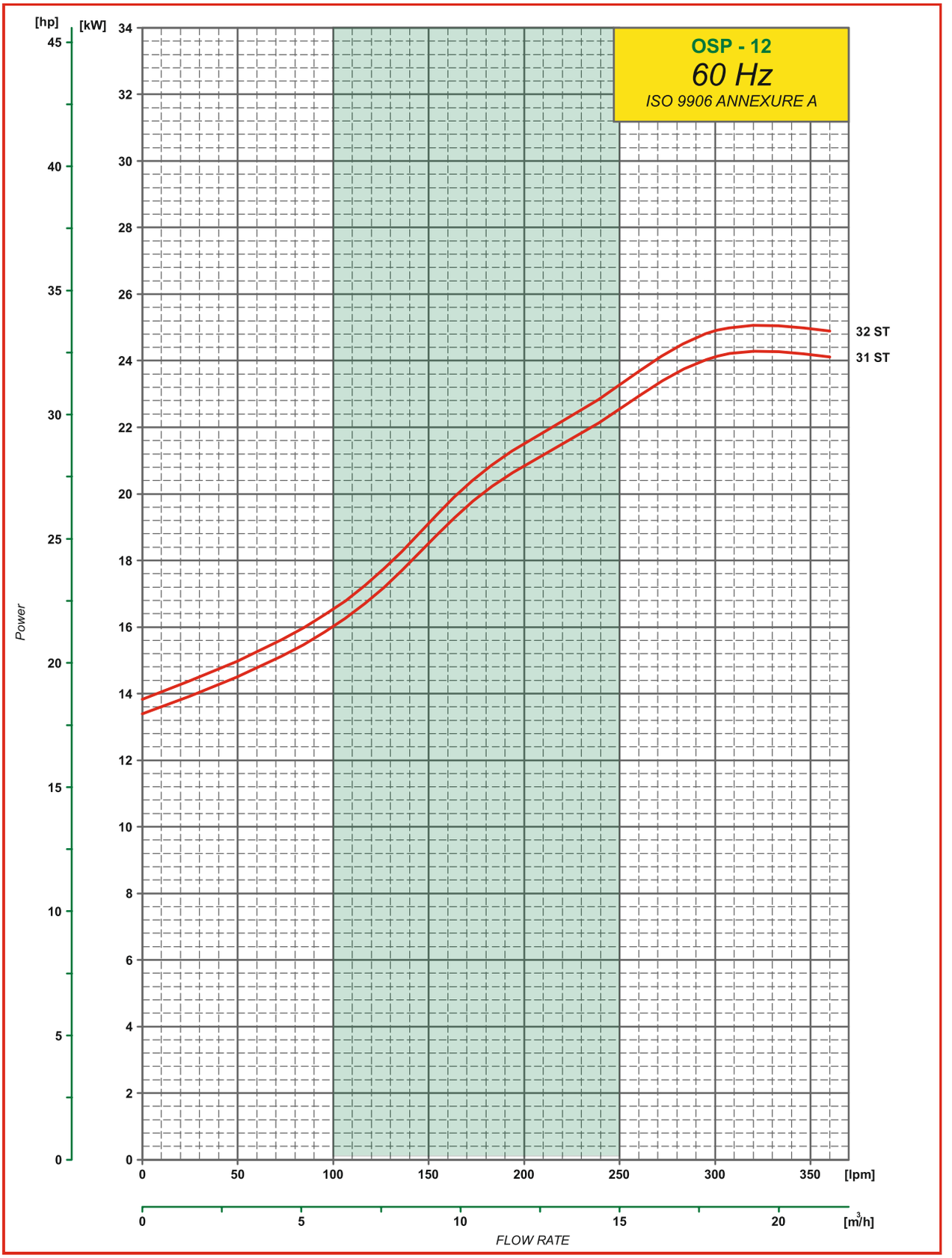


Performance Table

Submersible Pump | **60 Hz** | **OSP - 17**

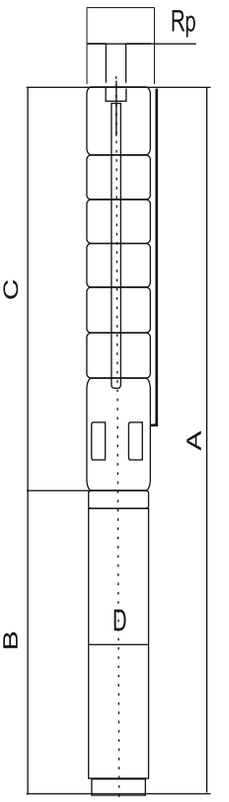
MODEL 60 Hz	K.W.	H.P.	Stage	Motor joining	Out let Size in inches	Discharge						
						$M^3/hr.$	0	7.2	14.4	**18**	21.6	25.2
						USGPM	**0**	31.7	63.4	79.2	95.1	110.9
						GPM	**0**	**26.4**	**52.8**	**66.0**	**79.2**	**92.4**
						LPM	0	120	240	**300**	360	420
OSP-17/1(P4)60(4X6)	1.10	1.5	1	V-4	2½"		16	16	14	**13**	11	8
OSP-17/2(P4)60(4X6)	2.2	3	2	V-4	2½"		32	32	28	**25**	21	16
OSP-17/3(P4)60(6X6)	3.0	4	3	V-6	2½"		48	48	42	**38**	32	25
OSP-17/4(P4)60(6X6)	4.5	6	4	V-6	2½"		64	63	56	**51**	43	33
OSP-17/5(P4)60(6X6)	5.5	7.5	5	V-6	2½"		81	79	71	**63**	53	41
OSP-17/6(P4)60(6X6)	5.5	7.5	6	V-6	2½"		97	95	85	**76**	64	49
OSP-17/7(P4)60(6X6)	7.5	10	7	V-6	2½"		113	111	99	**89**	75	57
OSP-17/8(P4)60(6X6)	7.5	10	8	V-6	2½"		129	127	113	**101**	85	66
OSP-17/9(P4)60(6X6)	7.5	10	9	V-6	2½"		145	143	127	**114**	96	74
OSP - 17/10(P4)60(6X6)	9.3	12.5	10	V-6	2½"		161	158	141	**127**	107	82
OSP - 17/11(P4)60(6X6)	9.3	12.5	11	V-6	2½"		177	174	155	**139**	117	90
OSP - 17/12(P4)60(6X6)	11.0	15	12	V-6	2½"		193	190	169	**152**	128	98
OSP - 17/13(P4)60(6X6)	11.0	15	13	V-6	2½"		210	206	183	**165**	138	107
OSP - 17/14(P4)60(6X6)	13.0	17.5	14	V-6	2½"		226	222	198	**177**	149	115
OSP - 17/15(P4)60(6X6)	13.0	17.5	15	V-6	2½"		242	238	212	**190**	160	123
OSP - 17/16(P4)60(6X6)	15.0	20	16	V-6	2½"		258	253	226	**203**	170	131
OSP - 17/17(P4)60(6X6)	15.0	20	17	V-6	2½"		274	269	240	**215**	181	139
OSP - 17/18(P4)60(6X6)	15.0	20	18	V-6	2½"		290	285	254	**228**	192	148
OSP - 17/19(P4)60(6X6)	18.5	25	19	V-6	2½"		306	301	268	**241**	202	156
OSP - 17/20(P4)60(6X6)	18.5	25	20	V-6	2½"		322	317	282	**253**	213	164
OSP - 17/21(P4)60(6X6)	18.5	25	21	V-6	2½"		339	333	296	**266**	224	172
OSP - 17/22(P4)60(6X6)	18.5	25	22	V-6	2½"		355	348	310	**279**	234	180
OSP - 17/23(P4)60(6X6)	22	30	23	V-6	2½"		371	364	325	**291**	245	189
OSP - 17/24(P4)60(6X6)	22	30	24	V-6	2½"		387	380	339	**304**	256	197
OSP - 17/25(P4)60(6X6)	22	30	25	V-6	2½"		403	396	353	**317**	266	205
OSP - 17/26(P4)60(6X6)	22	30	26	V-6	2½"		419	412	367	**329**	277	213
OSP - 17/27(P4)60(6X6)	26	35	27	V-6	2½"		435	428	381	**342**	288	221
OSP - 17/28(P4)60(6X6)	26	35	28	V-6	2½"		451	444	395	**355**	298	230
OSP - 17/29(P4)60(6X6)	26	35	29	V-6	2½"		467	459	409	**367**	309	238
OSP - 17/30(P4)60(6X6)	26	35	30	V-6	2½"		484	475	423	**380**	320	246
OSP - 17/33(P4)60(6X6)	30	40	33	V-6	2½"		532	523	466	**418**	351	271
OSP - 17/36(P4)60(6X6)	30	40	36	V-6	2½"		580	570	508	**456**	383	295
OSP - 17/39(P4)60(6X6)	37	50	39	V-6	2½"		629	618	550	**494**	415	320
OSP - 17/42(P4)60(6X6)	37	50	42	V-6	2½"		677	665	593	**532**	447	344

Technical Data

Submersible Pump | **60 Hz** | **OSP - 17**

MODEL 60 Hz	Stage	MOTOR		PUMP				MOTOR
		Joining Motor	Power (KW)	Weight Kg	Length C(mm)	E* (mm)	E** (mm)	OD (mm)
OSP-17/1(P4)60(4X6)	1	V-4	1.10	5.6	336	131		97
OSP-17/2(P4)60(4X6)	2	V-4	2.2	6.8	397	131		97
OSP-17/3(P4)60(6X6)	3	V-6	3.0	9.2	458	131	145	146
OSP-17/4(P4)60(6X6)	4	V-6	4.5	10.5	519	131	145	146
OSP-17/5(P4)60(6X6)	5	V-6	5.5	11.7	580	131	145	146
OSP-17/6(P4)60(6X6)	6	V-6	5.5	13.0	641	131	145	146
OSP-17/7(P4)60(6X6)	7	V-6	7.5	14.2	702	131	145	146
OSP-17/8(P4)60(6X6)	8	V-6	7.5	15.5	763	131	145	146
OSP-17/9(P4)60(6X6)	9	V-6	7.5	16.8	824	131	145	146
OSP - 17/10(P4)60(6X6)	10	V-6	9.3	18.0	885	143	145	146
OSP - 17/11(P4)60(6X6)	11	V-6	9.3	19.3	946	143	145	146
OSP - 17/12(P4)60(6X6)	12	V-6	11.0	20.5	1007	143	145	146
OSP - 17/13(P4)60(6X6)	13	V-6	11.0	21.8	1068	143	145	146
OSP - 17/14(P4)60(6X6)	14	V-6	13.0	23.1	1129	143	145	146
OSP - 17/15(P4)60(6X6)	15	V-6	13.0	24.3	1190	143	145	146
OSP - 17/16(P4)60(6X6)	16	V-6	15.0	25.6	1251	143	145	146
OSP - 17/17(P4)60(6X6)	17	V-6	15.0	26.9	1312	143	145	146
OSP - 17/18(P4)60(6X6)	18	V-6	15.0	28.1	1373	143	145	146
OSP - 17/19(P4)60(6X6)	19	V-6	18.5	29.4	1434	143	145	146
OSP - 17/20(P4)60(6X6)	20	V-6	18.5	30.6	1495	143	145	146
OSP - 17/21(P4)60(6X6)	21	V-6	18.5	31.9	1556	143	145	146
OSP - 17/22(P4)60(6X6)	22	V-6	18.5	33.2	1617	143	145	146
OSP - 17/23(P4)60(6X6)	23	V-6	22	34.4	1678	143	145	146
OSP - 17/24(P4)60(6X6)	24	V-6	22	35.7	1739	143	145	146
OSP - 17/25(P4)60(6X6)	25	V-6	22	36.9	1800	143	145	146
OSP - 17/26(P4)60(6X6)	26	V-6	22	38.2	1861	143	145	146
OSP - 17/27(P4)60(6X6)	27	V-6	26	39.5	1922	143	145	146
OSP - 17/28(P4)60(6X6)	28	V-6	26	40.7	1983	143	145	146
OSP - 17/29(P4)60(6X6)	29	V-6	26	42.0	2044	143	145	146
OSP - 17/30(P4)60(6X6)	30	V-6	26	43.2	2105	143	145	146
OSP - 17/33(P4)60(6X6)	33	V-6	30	47.0	2288	143	145	146
OSP - 17/36(P4)60(6X6)	36	V-6	30	50.8	2471	143	145	146
OSP - 17/39(P4)60(6X6)	39	V-6	37	54.6	2654	143	145	146
OSP - 17/42(P4)60(6X6)	42	V-6	37	58.4	2837	143	145	146

FIGURE



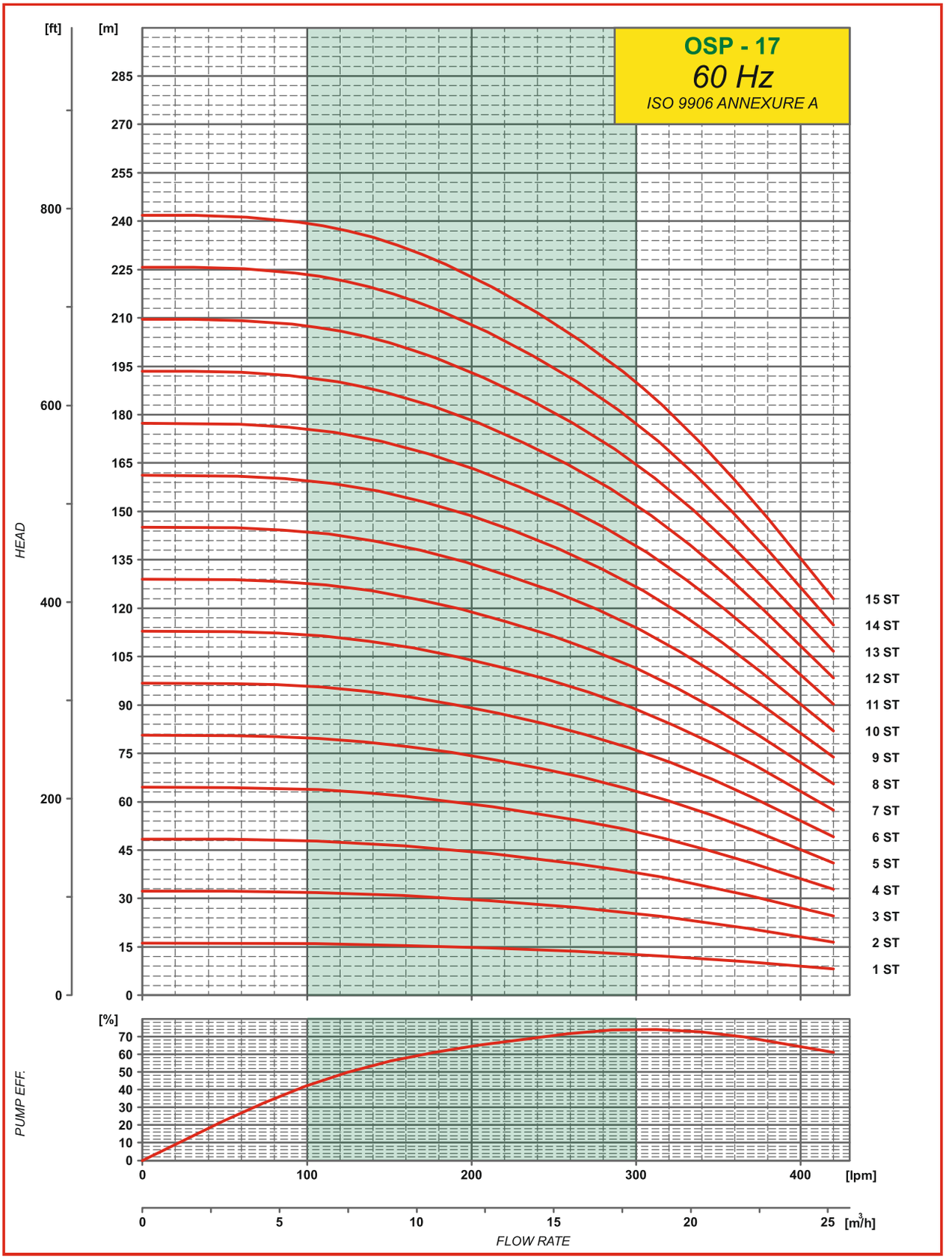
(S) Means with Sleeve (External Jacket)

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

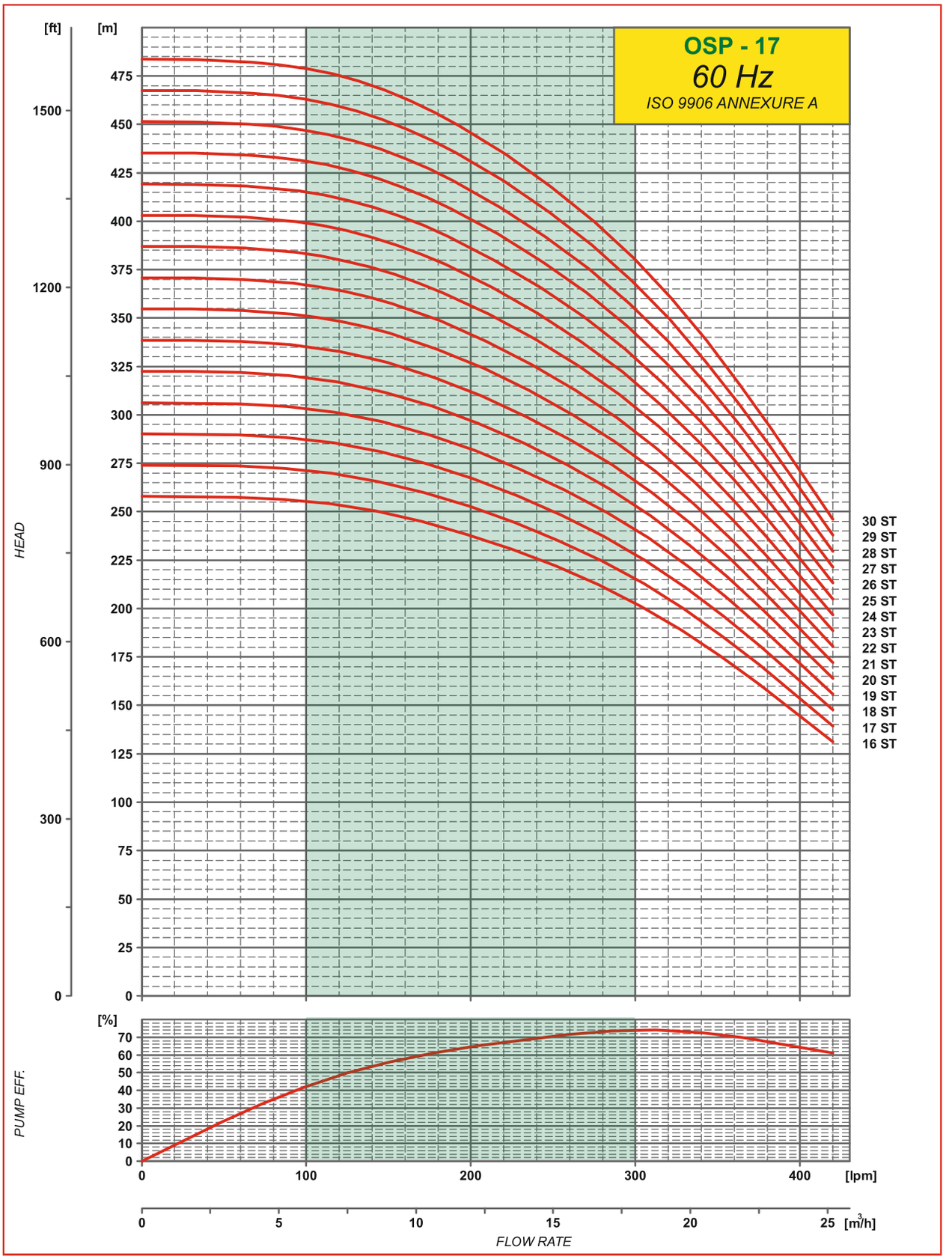
E** : MAX.DIA OF PUMP WITH TWO MOTOR CABLE

FROM : 3 STAGE TO 9 STAGE ALSO AVAILABLE WITH 4" MOTOR JOINING (4X6)

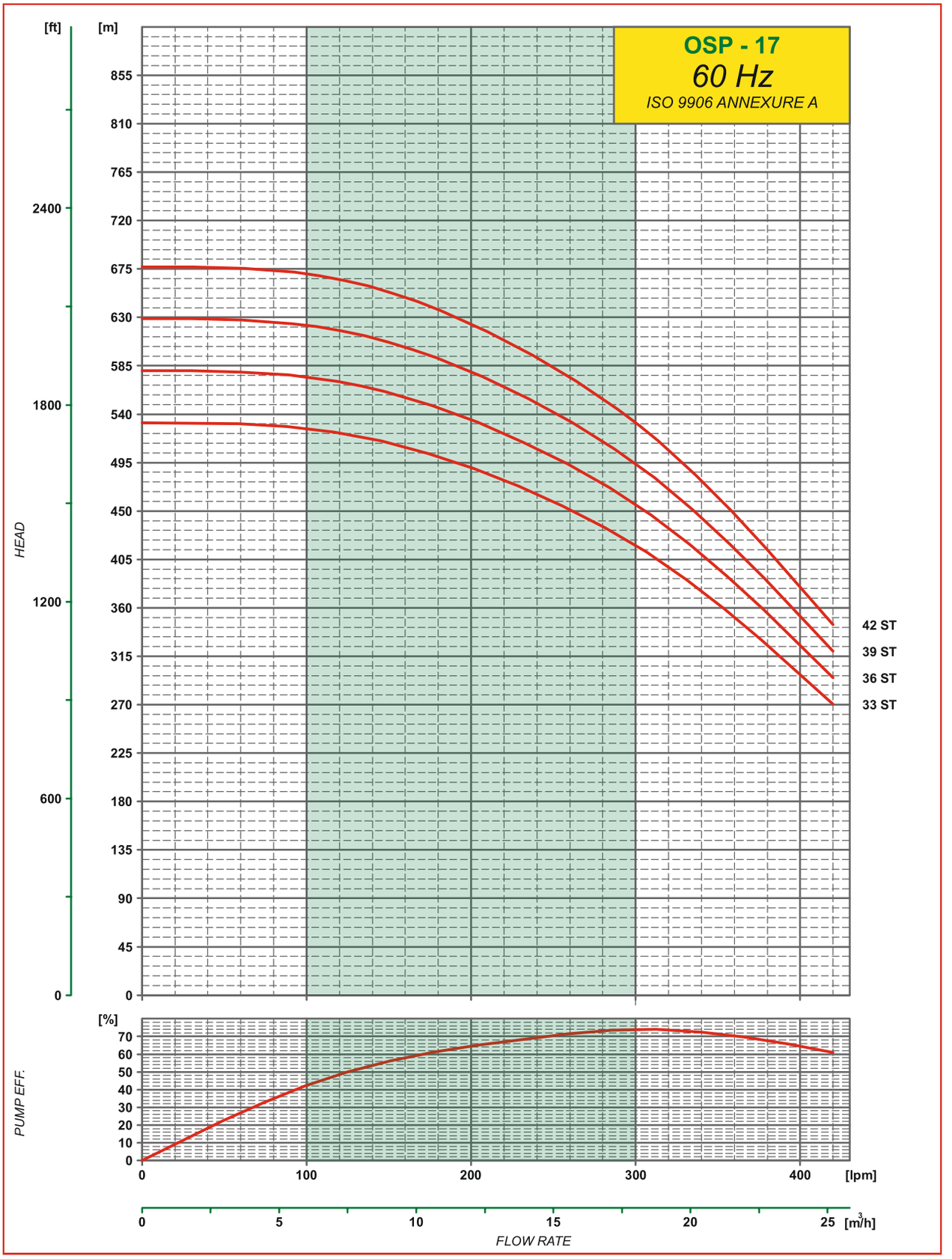
Performance Curves



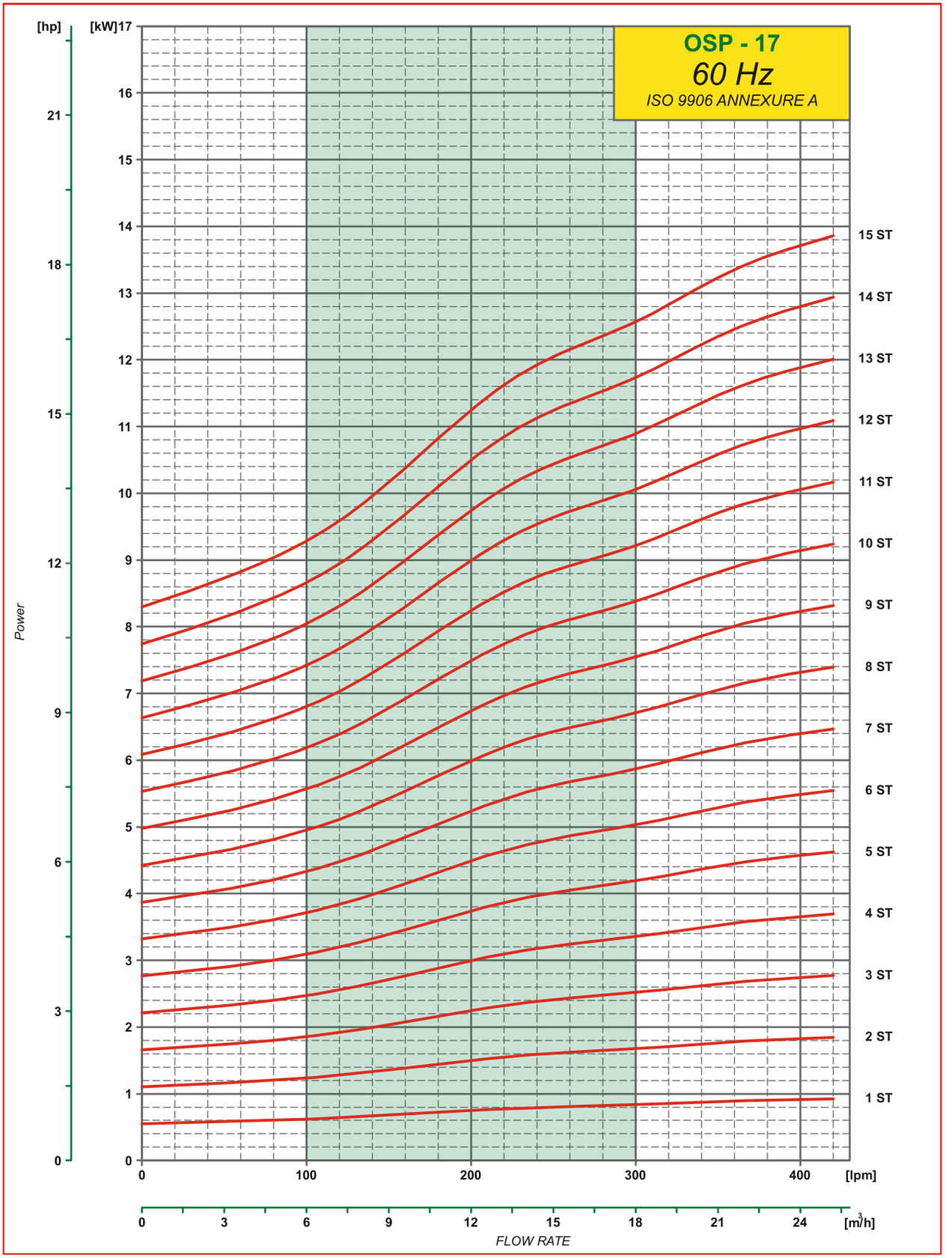
Performance Curves



Performance Curves



Power Curves



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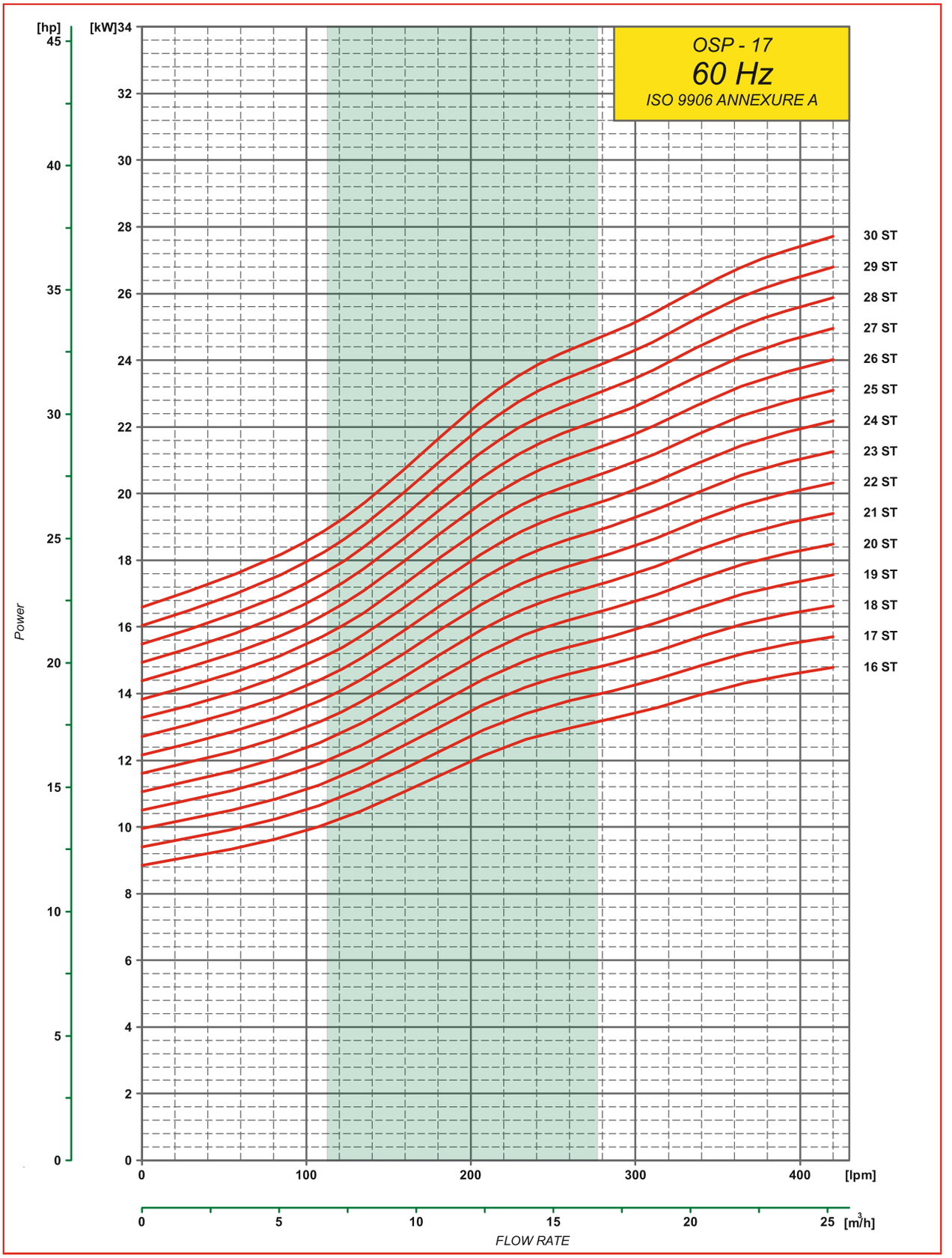

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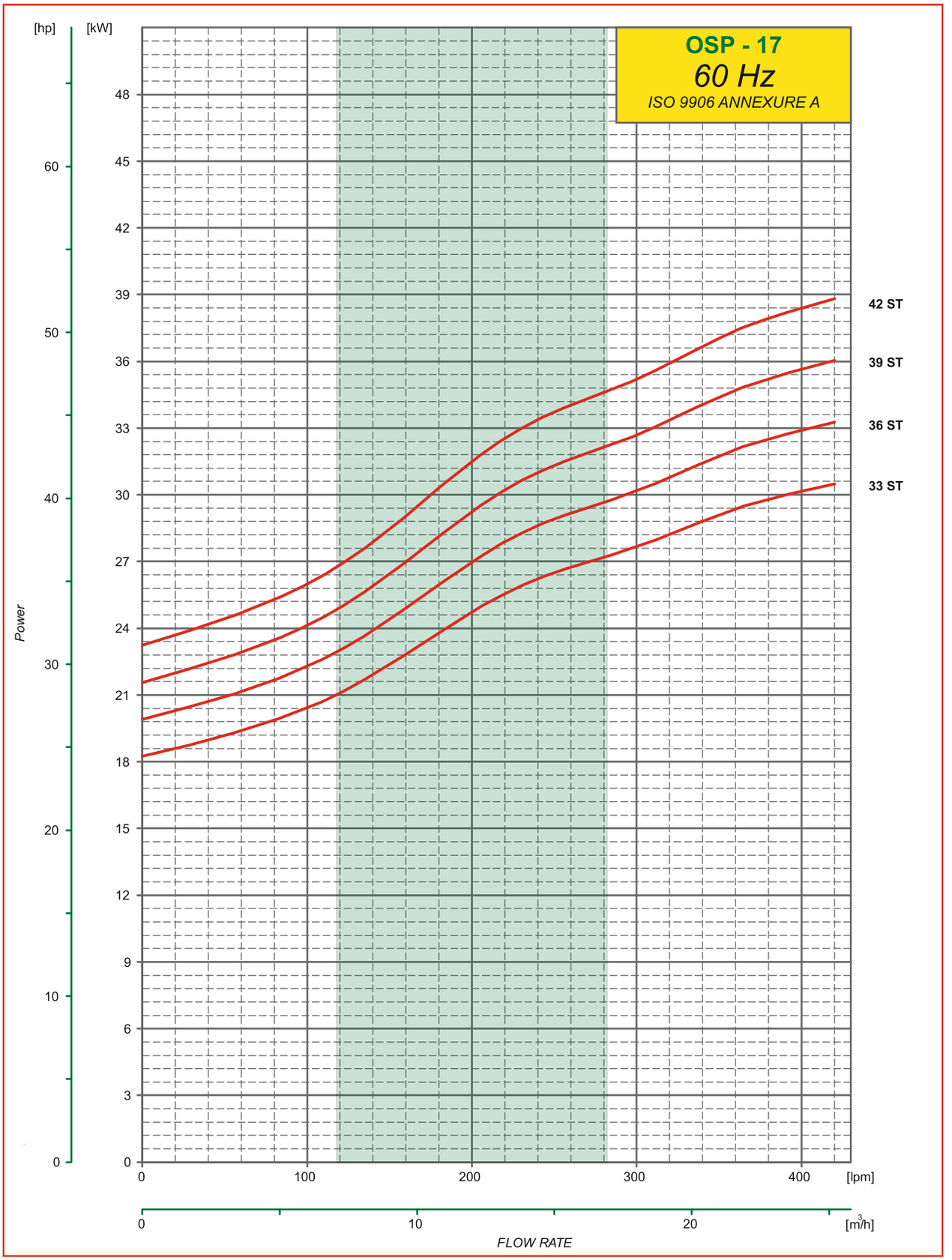


Performance Table

Submersible Pump | **60 Hz** | **OSP - 30**

MODEL 60 Hz	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
						USGPM	**0**	63.4	126.8	158.5	190.2	206.0
						GPM	**0**	**52.8**	**105.6**	**132.0**	**158.4**	**171.6**
						LPM	0	240	480	**600**	720	780
OSP- 30/1(P4)60(4X6)	1.5	2	1	V-4	3"		16	15	13	**11**	8	6
OSP- 30/2(P4)60(4X6)	3.0	4	2	V-4	3"		33	30	25	**22**	15	12
OSP- 30/3(P4)60(6X6)	4.5	6	3	V-6	3"		49	46	38	**32**	23	18
OSP- 30/4(P4)60(6X6)	5.5	7.5	4	V-6	3"		66	61	50	**43**	31	24
OSP- 30/5(P4)60(6X6)	7.5	10	5	V-6	3"		82	76	63	**54**	39	30
OSP - 30/6(P4)60(6X6)	9.3	12.5	6	V-6	3"		98	91	76	**65**	46	36
OSP - 30/7(P4)60(6X6)	9.3	12.5	7	V-6	3"		115	106	88	**76**	54	42
OSP - 30/8(P4)60(6X6)	11	15	8	V-6	3"		131	122	101	**86**	62	48
OSP - 30/9(P4)60(6X6)	13	17.5	9	V-6	3"		148	137	113	**97**	69	54
OSP - 30/10(P4)60(6X6)	13	17.5	10	V-6	3"		164	152	126	**108**	77	60
OSP - 30/11(P4)60(6X6)	15	20	11	V-6	3"		180	167	139	**119**	85	66
OSP - 30/12(P4)60(6X6)	18.5	25	12	V-6	3"		197	182	151	**130**	92	72
OSP - 30/13(P4)60(6X6)	18.5	25	13	V-6	3"		213	198	164	**140**	100	78
OSP - 30/14(P4)60(6X6)	18.5	25	14	V-6	3"		230	213	176	**151**	108	84
OSP - 30/15(P4)60(6X6)	22	30	15	V-6	3"		246	228	189	**162**	116	90
OSP - 30/16(P4)60(6X6)	22	30	16	V-6	3"		262	243	202	**173**	123	96
OSP - 30/17(P4)60(6X6)	22	30	17	V-6	3"		279	258	214	**184**	131	102
OSP- 30/18(P4)60(6X6)	26	35	18	V-6	3"	A E H	295	274	227	**194**	139	108
OSP- 30/19(P4)60(6X6)	26	35	19	V-6	3"		312	289	239	**205**	146	114
OSP- 30/20(P4)60(6X6)	26	35	20	V-6	3"		328	304	252	**216**	154	120
OSP- 30/21(P4)60(6X6)	30	40	21	V-6	3"		344	319	265	**227**	162	126
OSP- 30/22(P4)60(6X6)	30	40	22	V-6	3"		361	334	277	**238**	169	132
OSP- 30/23(P4)60(6X6)	30	40	23	V-6	3"		377	350	290	**248**	177	138
OSP- 30/24(P4)60(6X6)	37	50	24	V-6	3"		394	365	302	**259**	185	144
OSP- 30/25(P4)60(6X6)	37	50	25	V-6	3"		410	380	315	**270**	193	150
OSP- 30/26(P4)60(6X6)	37	50	26	V-6	3"		426	395	328	**281**	200	156
OSP- 30/27(P4)60(6X6)	37	50	27	V-6	3"		443	410	340	**292**	208	162
OSP- 30/28(P4)60(6X6)	37	50	28	V-6	3"		459	426	353	**302**	216	168
OSP- 30/29(P4)60(8X6)	45	60	29	V-8	3"		476	441	365	**313**	223	174
OSP- 30/31(P4)60(8X6)	45	60	31	V-8	3"		508	471	391	**335**	239	186

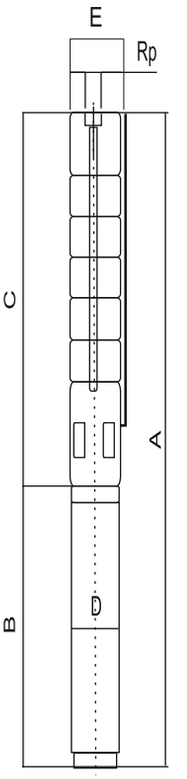
Technical Data

Submersible Pump

OSP - 30

MODEL 60 Hz	Stage	MOTOR		PUMP				Motor
		Joining Motor	Power (KW)	Weight Kg	Length C(mm)	E* (mm)	E** (mm)	OD (mm)
OSP- 30/1(P4)60(4X6)	1	V-4	1.5	6.7	371	131		97
OSP- 30/2(P4)60(6X6)	2	V-6	3.0	9.8	467	131		146
OSP- 30/3(P4)60(6X6)	3	V-6	4.5	11.7	563	131		146
OSP- 30/4(P4)60(6X6)	4	V-6	5.5	13.7	659	131		146
OSP- 30/5(P4)60(6X6)	5	V-6	7.5	15.7	755	131		146
OSP - 30/4(P4)60(6X6)	4	V-6	5.5	13.7	659	143	145	146
OSP - 30/5(P4)60(6X6)	5	V-6	7.5	15.7	755	143	145	146
OSP - 30/6(P4)60(6X6)	6	V-6	9.3	17.6	851	143	145	146
OSP - 30/7(P4)60(6X6)	7	V-6	9.3	19.6	947	143	145	146
OSP - 30/8(P4)60(6X6)	8	V-6	11	21.6	1043	143	145	146
OSP - 30/9(P4)60(6X6)	9	V-6	13	23.6	1139	143	145	146
OSP - 30/10(P4)60(6X6)	10	V-6	13	25.5	1235	143	145	146
OSP - 30/11(P4)60(6X6)	11	V-6	15	27.5	1331	143	145	146
OSP - 30/12(P4)60(6X6)	12	V-6	18.5	29.5	1427	143	145	146
OSP - 30/13(P4)60(6X6)	13	V-6	18.5	31.5	1523	143	145	146
OSP - 30/14(P4)60(6X6)	14	V-6	18.5	33.4	1619	143	145	146
OSP - 30/15(P4)60(6X6)	15	V-6	22	35.4	1715	143	145	146
OSP - 30/16(P4)60(6X6)	16	V-6	22	37.4	1811	143	145	146
OSP - 30/17(P4)60(6X6)	17	V-6	22	39.4	1907	143	145	146
OSP- 30/18(P4)60(6X6)	18	V-6	26	41.3	2003	143	145	146
OSP- 30/19(P4)60(6X6)	19	V-6	26	43.3	2099	143	145	146
OSP- 30/20(P4)60(6X6)	20	V-6	26	45.3	2195	143	145	146
OSP- 30/21(P4)60(6X6)	21	V-6	30	47.2	2291	143	145	146
OSP- 30/22(P4)60(6X6)	22	V-6	30	49.2	2387	143	145	146
OSP- 30/23(P4)60(6X6)	23	V-6	30	51.2	2483	143	145	146
OSP- 30/24(P4)60(6X6)	24	V-6	37	53.2	2579	143	145	146
OSP- 30/25(P4)60(6X6)	25	V-6	37	55.1	2675	143	145	146
OSP- 30/26(P4)60(6X6)	26	V-6	37	57.1	2771	143	145	146
OSP- 30/27(P4)60(6X6)	27	V-6	37	59.1	2867	143	145	146
OSP- 30/28(P4)60(6X6)	28	V-6	37	61.1	2963	143	145	146
OSP- 30/29(P4)60(8X6)	29	V-8	45	66.0	3099	188	188	189
OSP- 30/31(P4)60(8X6)	31	V-8	45	69.9	3291	188	188	189

FIGURE



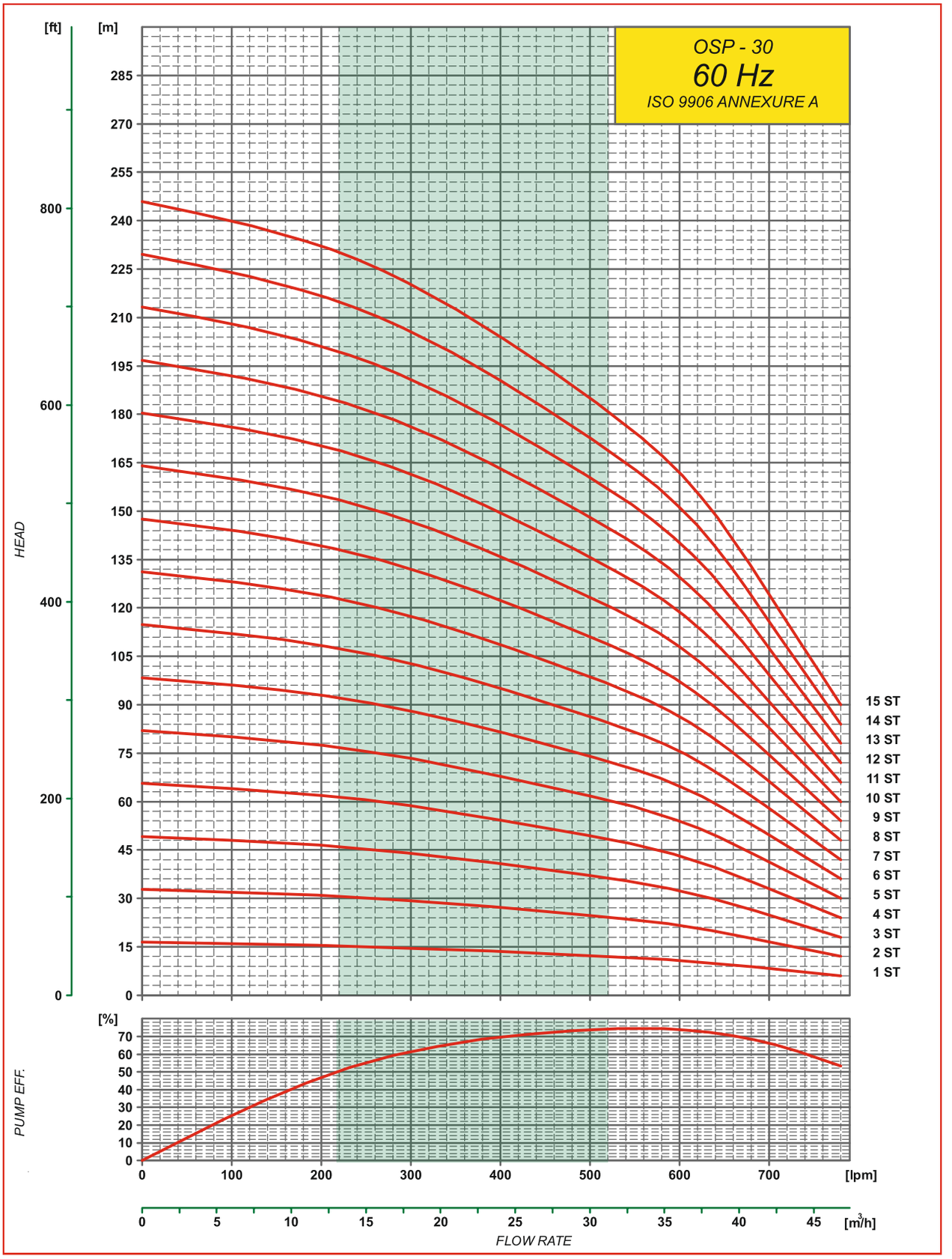
(S) Means Pump with Sleeve (External Jacket)

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

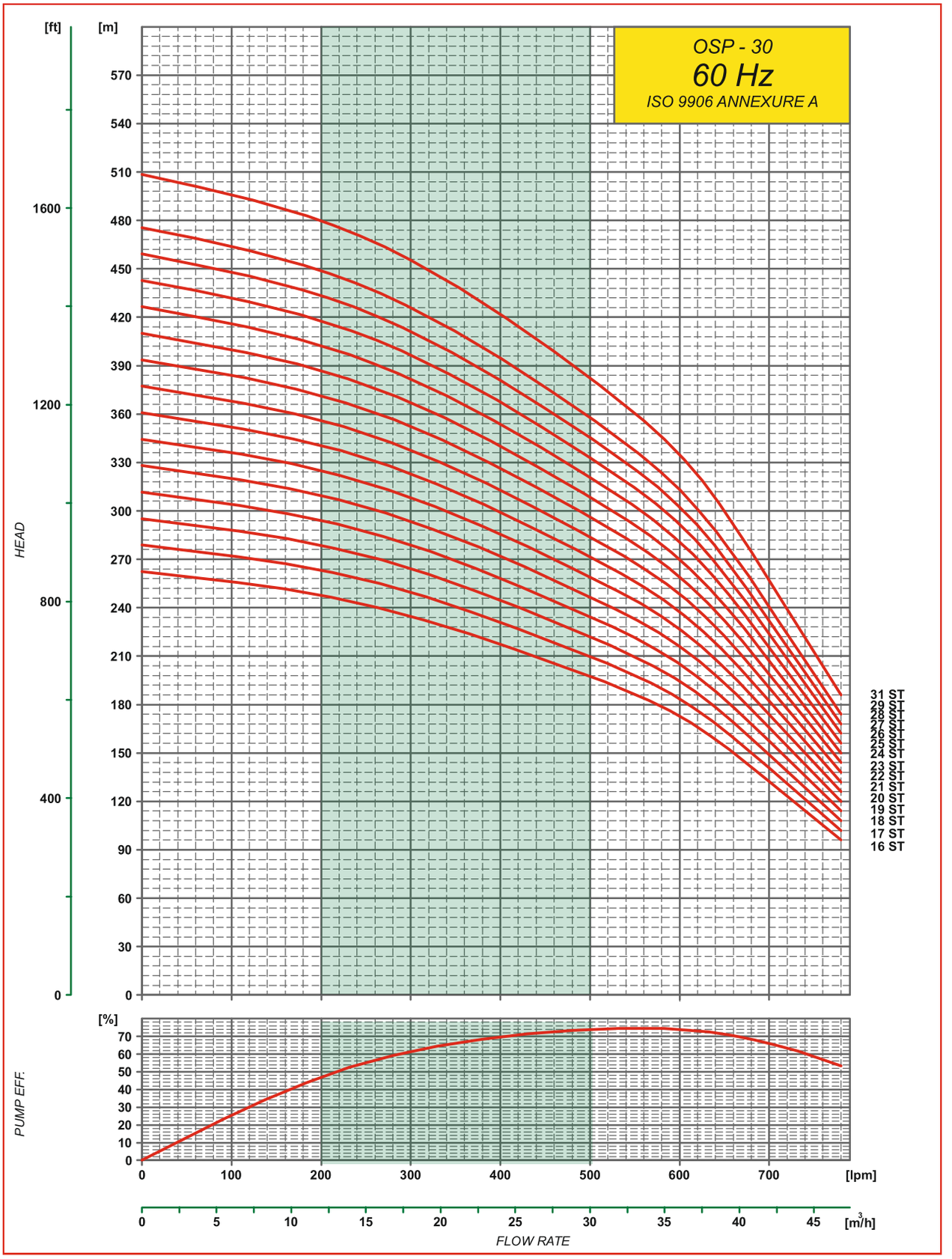
E** : MAX.DIA OF PUMP WITH TWO MOTOR CABLE

FROM : 2 STAGE TO 5 STAGE ALSO AVAILABLE WITH 4" MOTOR JOINING (4X6)

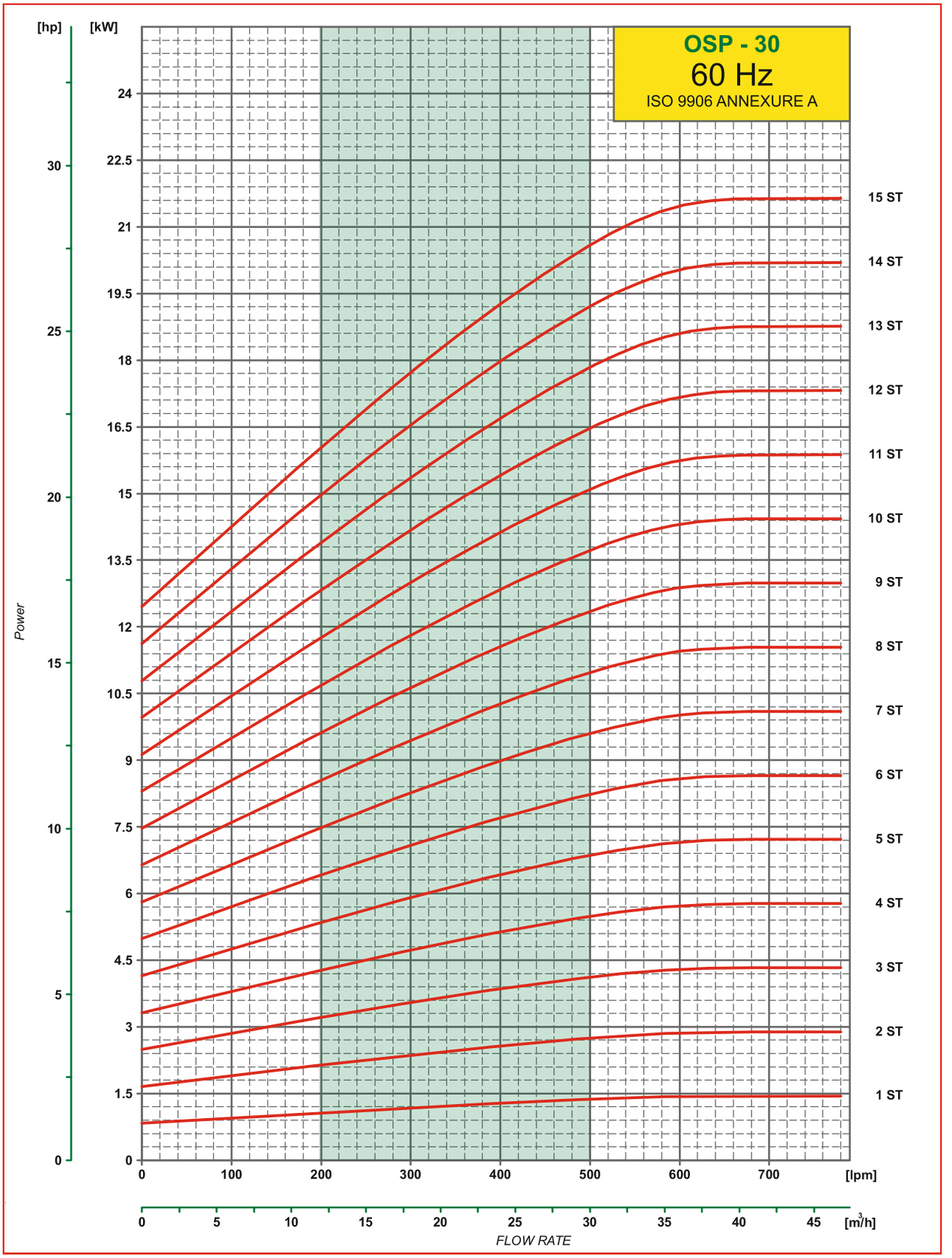
Performance Curves



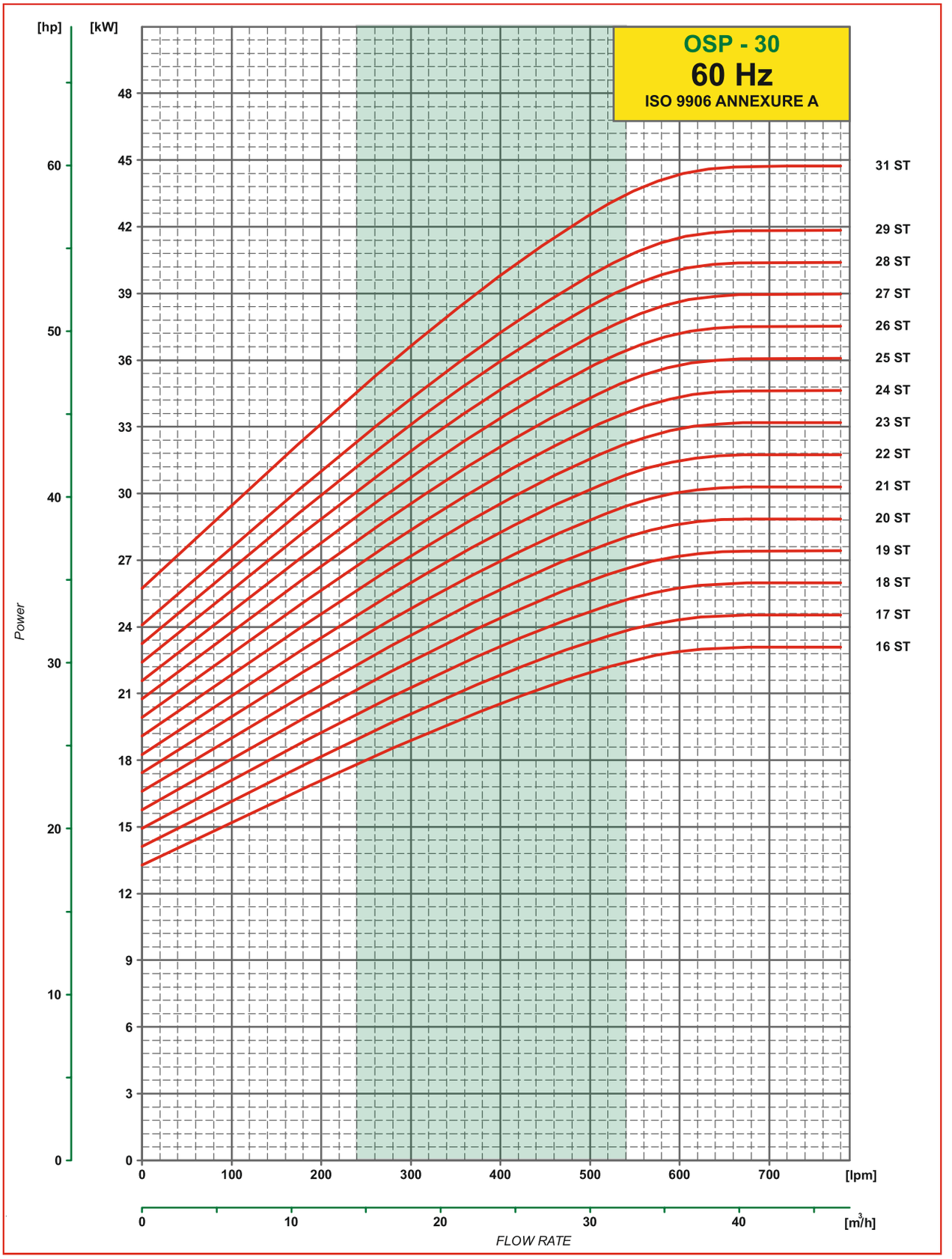
Performance Curves



Power Curves



Power Curves



Performance Table

Submersible Pump | **60 Hz** | **OSP - 46**

MODEL 60 Hz	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
						USGPM	**0**	126.8	190.2	221.9	253.6	316.9
						GPM	**0**	**105.6**	**158.4**	**184.8**	**211.2**	**264.0**
						LPM	0	480	720	840	**960**	1200
OSP-46/1-B(P4)60(4X6)	1.5	2	1-B	V-4	4"		14	12	10	8	**6**	1
OSP-46/1-A(P4)60(4X6)	2.2	3	1-A	V-4	4"		16	14	12	10	**8**	3
OSP-46/1(P4)60(6X6)	3	4	1	V-6	4"		19.2	16.7	14.4	13	**11.6**	7.2
OSP-46/2-AB(P4)60(6X6)	3.7	5	2-AB	V-6	4"		29	25	22	18	**14**	4
OSP-46/2(P4)60(6X6)	5.5	7.5	2	V-6	4"		38	33	29	26	**23**	14
OSP-46/3-BB(P4)60(6X6)	5.5	7.5	3-BB	V-6	4"		46	40	34	29	**24**	8
OSP-46/3(P4)60(6X6)	7.5	10	3	V-6	4"		58	50	43	39	**35**	22
OSP - 46/4-BC(P4)60(6X6)	7.5	10	4-BC	V-6	4"		54	54	47	40	**33**	7
OSP - 46/4(P4)60(6X6)	9.3	12.5	4	V-6	4"		77	67	58	52	**46**	29
OSP - 46/5-C(P4)60(6X6)	11	15	5-C	V-6	4"		90	77	64	57	**50**	24
OSP - 46/5(P4)60(6X6)	13	17.5	5	V-6	4"		96	84	72	65	**58**	36
OSP - 46/6-A(P4)60(6X6)	13	17.5	6-A	V-6	4"		110	97	83	73	**66**	34
OSP - 46/6(P4)60(6X6)	15	20	6	V-6	4"		115	100	86	78	**70**	43
OSP - 46/7-C(P4)60(6X6)	15	20	7-C	V-6	4"		127	110	94	85	**75**	37
OSP - 46/7(P4)60(6X6)	18.5	25	7	V-6	4"		134	117	101	91	**81**	50
OSP - 46/8(P4)60(6X6)	18.5	25	8	V-6	4"		154	134	115	104	**93**	58
OSP - 46/9(P4)60(6X6)	22	30	9	V-6	4"		173	150	130	117	**104**	65
OSP - 46/10(P4)60(6X6)	22	30	10	V-6	4"		192	167	144	130	**116**	72
OSP - 46/11(P4)60(6X6)	26	35	11	V-6	4"		211	184	158	143	**128**	79
OSP - 46/12(P4)60(6X6)	30	40	12	V-6	4"		230	200	173	156	**139**	86
OSP - 46/13(P4)60(6X6)	30	40	13	V-6	4"		250	217	187	169	**151**	94
OSP - 46/14(P4)60(6X6)	37	50	14	V-6	4"		269	234	202	182	**162**	101
OSP - 46/15(P4)60(6X6)	37	50	15	V-6	4"		288	251	216	195	**174**	108
OSP - 46/16(P4)60(6X6)	37	50	16	V-6	4"		307	267	230	208	**186**	115
OSP - 46/17(P4)60(6X6)	37	50	17	V-6	4"		326	284	245	221	**197**	122
OSP - 46/18(P4)60(8X6)	45	60	18	V-8	4"		346	301	259	234	**209**	130
OSP - 46/19(P4)60(8X6)	45	60	19	V-8	4"		365	317	274	247	**220**	137
OSP - 46/20(P4)60(8X6)	45	60	20	V-8	4"		384	334	288	260	**232**	144
OSP - 46/22(P4)60(8X6)	55	75	22	V-8	4"		422	367	317	286	**255**	158
OSP - 46/24(P4)60(8X6)	55	75	24	V-8	4"		461	401	346	312	**278**	173

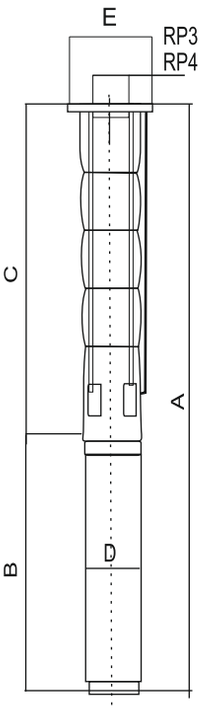
Technical Data

Submersible Pump

OSP - 46

MODEL 60 Hz	Stage	MOTOR		PUMP				Motor
		Joining Motor	Power (KW)	Weight Kg	Length C(mm)	E* (mm)	E** (mm)	OD (mm)
OSP-46/1-B(P4)60(4X6)	1-B	V-4	1.5	7.5	393	145		97
OSP-46/1-A(P4)60(4X6)	1-A	V-4	2.2	7.5	393	145		97
OSP-46/1(P4)60(6X6)	1	V-6	3	8.6	393	145	152	146
OSP-46/2-AB(P4)60(6X6)	2-AB	V-6	3.7	10.9	506	145	152	146
OSP-46/2(P4)60(6X6)	2	V-6	5.5	10.9	506	145	152	146
OSP-46/3-BB(P4)60(6X6)	3-BB	V-6	5.5	13.3	619	145	152	146
OSP-46/3(P4)60(6X6)	3	V-6	7.5	13.3	619	145	152	146
OSP-46/4-BC(P4)60(6X6)	4-BC	V-6	7.5	15.7	732	145	152	146
OSP - 46/4(P4)60(6X6)	4	V-6	9.3	15.7	732	147	152	146
OSP - 46/5-C(P4)60(6X6)	5-C	V-6	11	18.0	845	147	152	146
OSP - 46/5(P4)60(6X6)	5	V-6	13	18.0	845	147	152	146
OSP - 46/6-A(P4)60(6X6)	6-A	V-6	13	20.4	958	147	152	146
OSP - 46/6(P4)60(6X6)	6	V-6	15	20.4	958	147	152	146
OSP - 46/7-C(P4)60(6X6)	7-C	V-6	15	22.7	1071	147	152	146
OSP - 46/7(P4)60(6X6)	7	V-6	18.5	22.7	1071	147	152	146
OSP - 46/8(P4)60(6X6)	8	V-6	18.5	25.1	1184	147	152	146
OSP - 46/9(P4)60(6X6)	9	V-6	22	27.4	1297	147	152	146
OSP - 46/10(P4)60(6X6)	10	V-6	22	29.8	1410	147	152	146
OSP - 46/11(P4)60(6X6)	11	V-6	26	32.1	1523	147	152	146
OSP - 46/12(P4)60(6X6)	12	V-6	30	34.5	1636	147	152	146
OSP - 46/13(P4)60(6X6)	13	V-6	30	36.9	1749	147	152	146
OSP - 46/14(P4)60(6X6)	14	V-6	37	39.2	1862	147	152	146
OSP - 46/15(P4)60(6X6)	15	V-6	37	41.6	1975	147	152	146
OSP - 46/16(P4)60(6X6)	16	V-6	37	43.9	2088	147	152	146
OSP - 46/17(P4)60(6X6)	17	V-6	37	46.3	2201	147	152	146
OSP - 46/18(P4)60(8X6)	18	V-8	45	51.6	2349	188	188	189
OSP - 46/19(P4)60(8X6)	19	V-8	45	54.0	2462	188	188	189
OSP - 46/20(P4)60(8X6)	20	V-8	45	56.3	2575	188	188	189
OSP - 46/22(P4)60(8X6)	22	V-8	55	61.0	2801	188	188	189
OSP - 46/24(P4)60(8X6)	24	V-8	55	65.7	3027	188	188	189

FIGURE



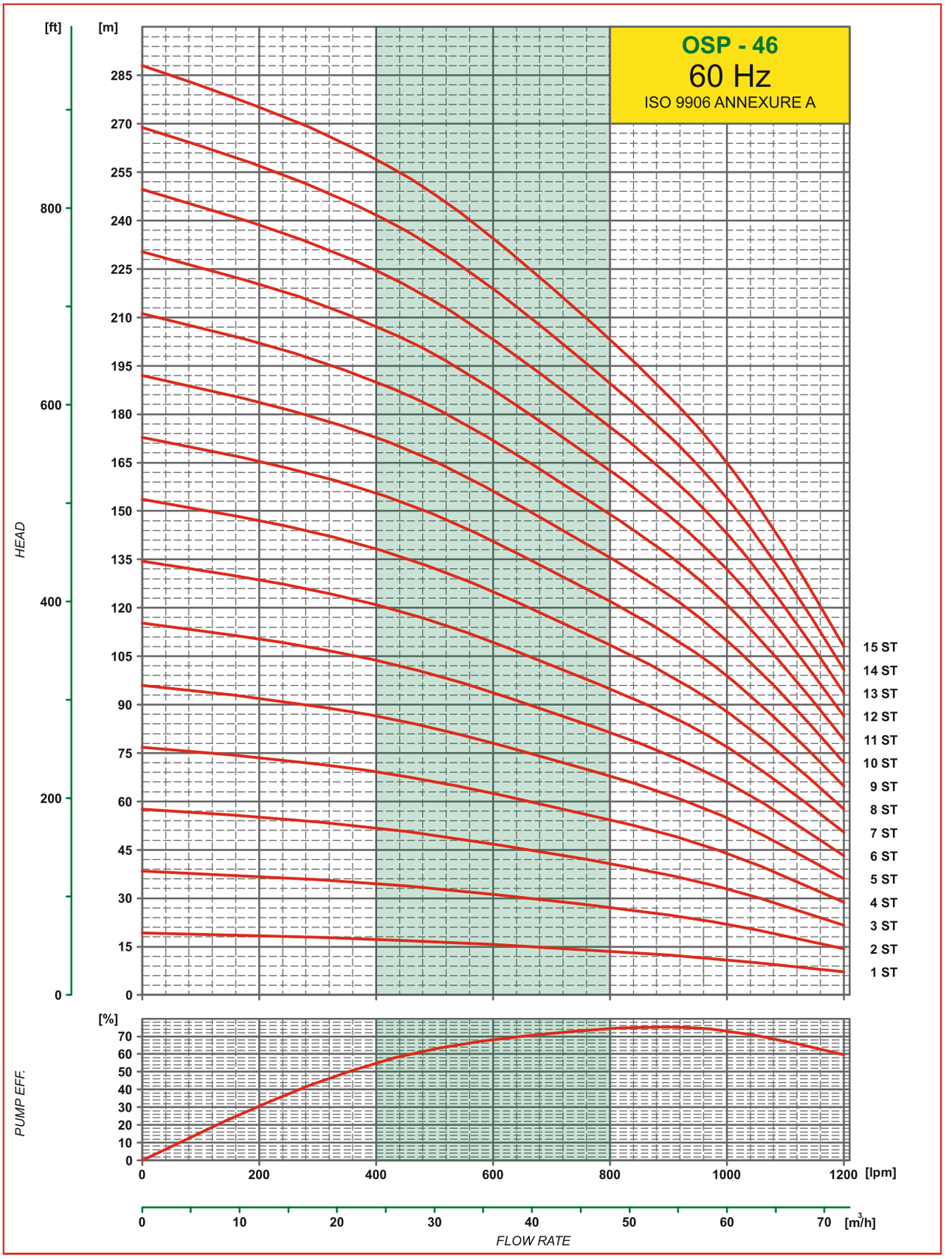
(S) means Pump with Sleeve (External Jacket)

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

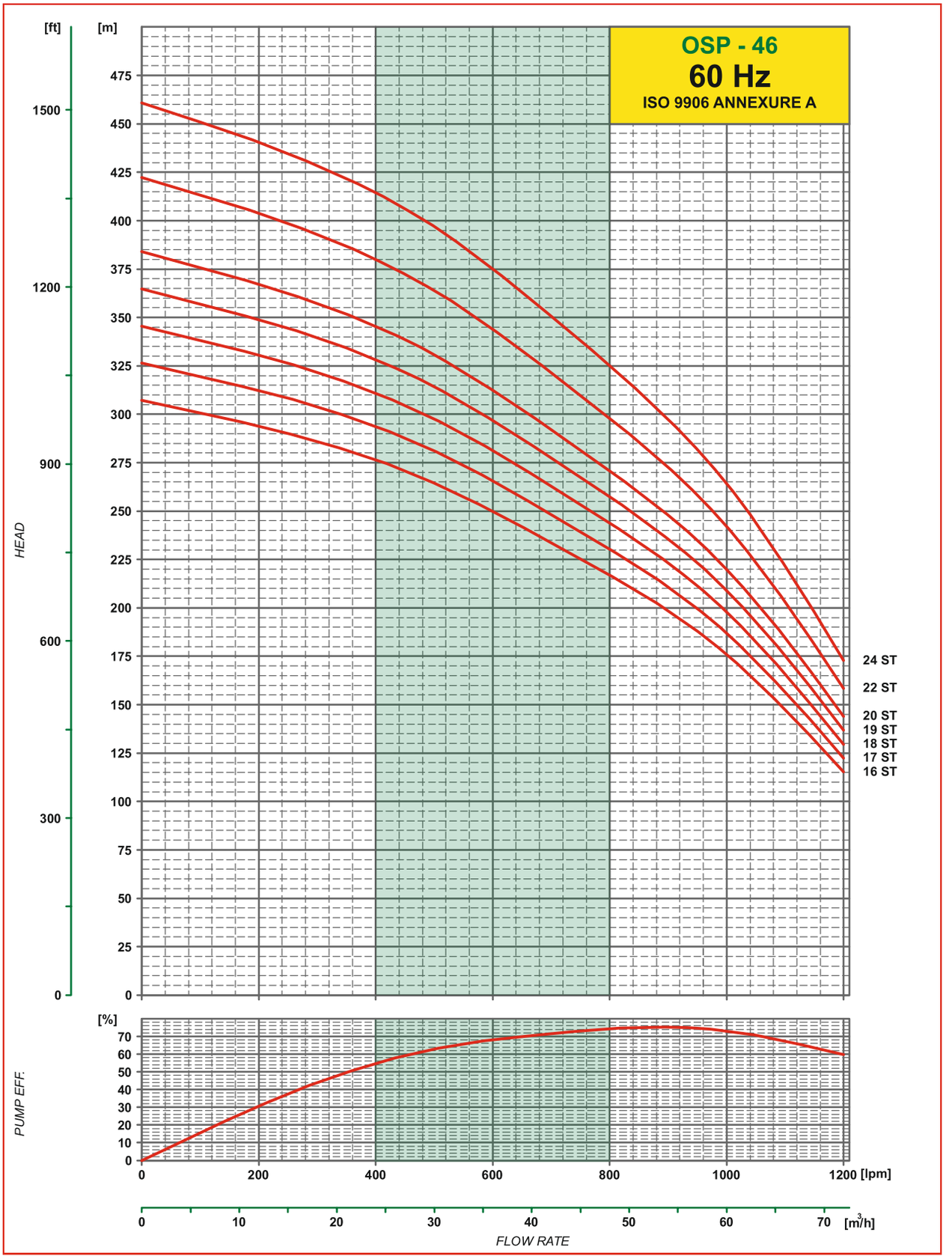
E** : MAX.DIA OF PUMP WITH TWO MOTOR CABLE

FROM : 1 STAGE TO 4-BC STAGE ALSO AVAILABLE WITH 4" MOTOR JOINING (4X6)

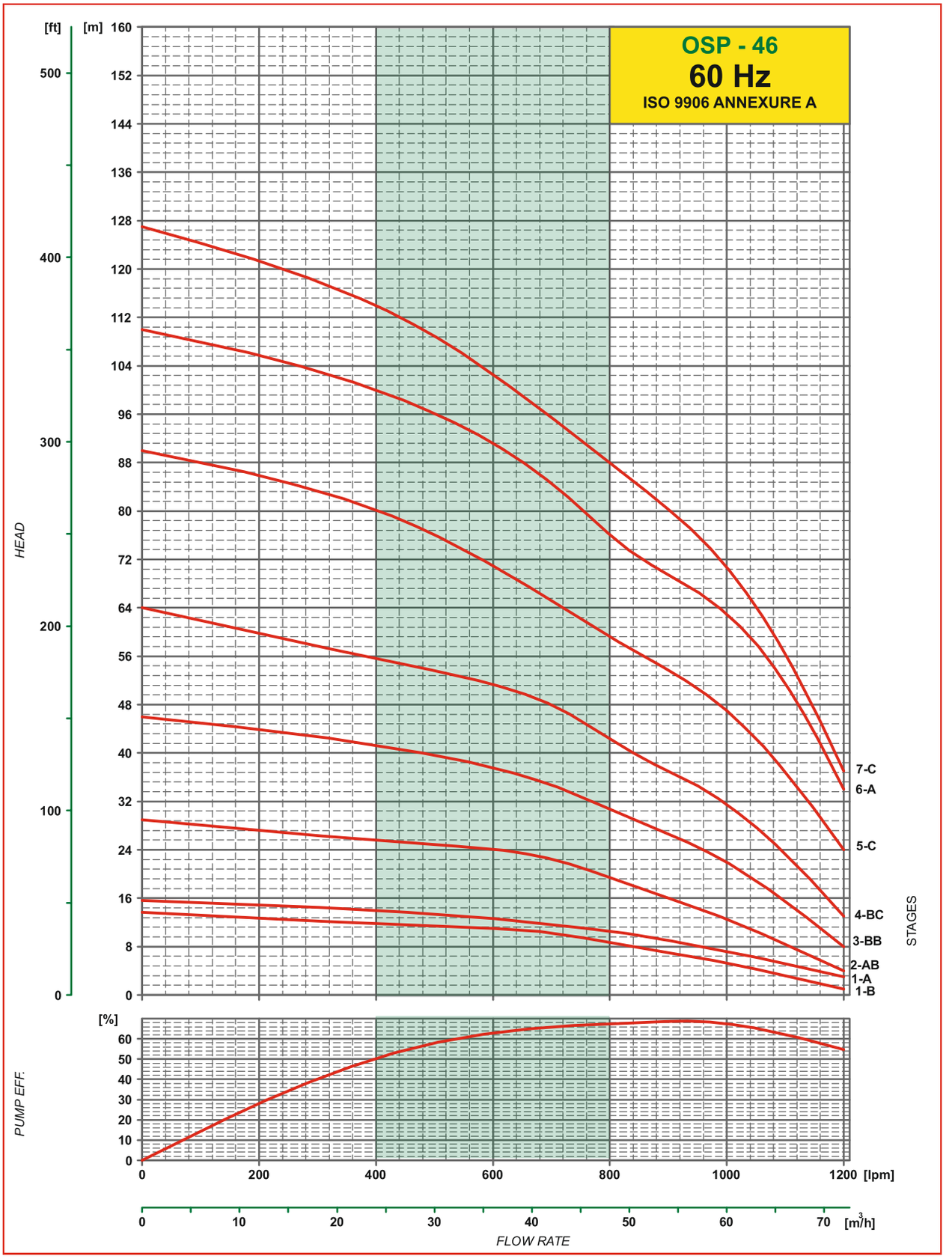
Performance Curves



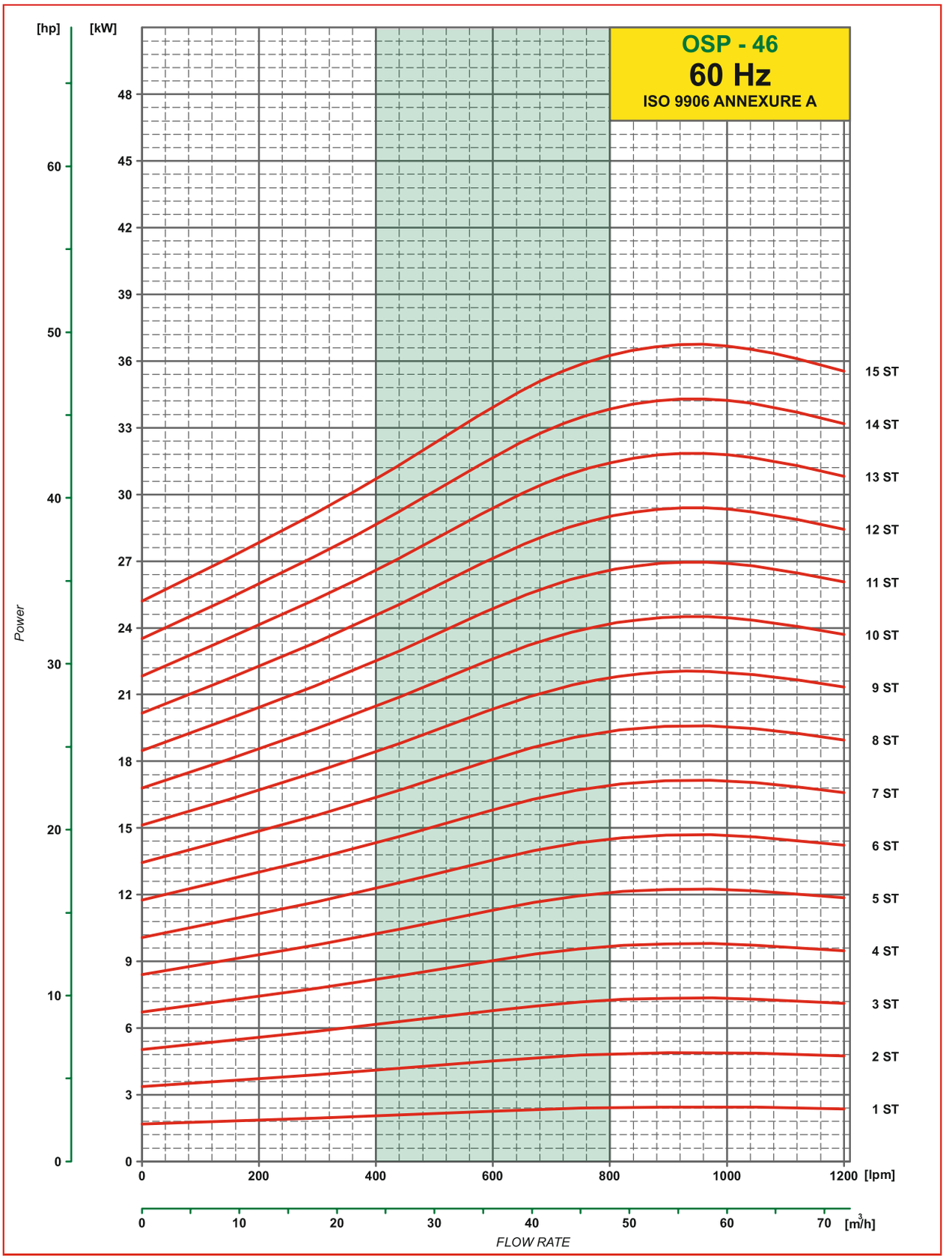
Performance Curves



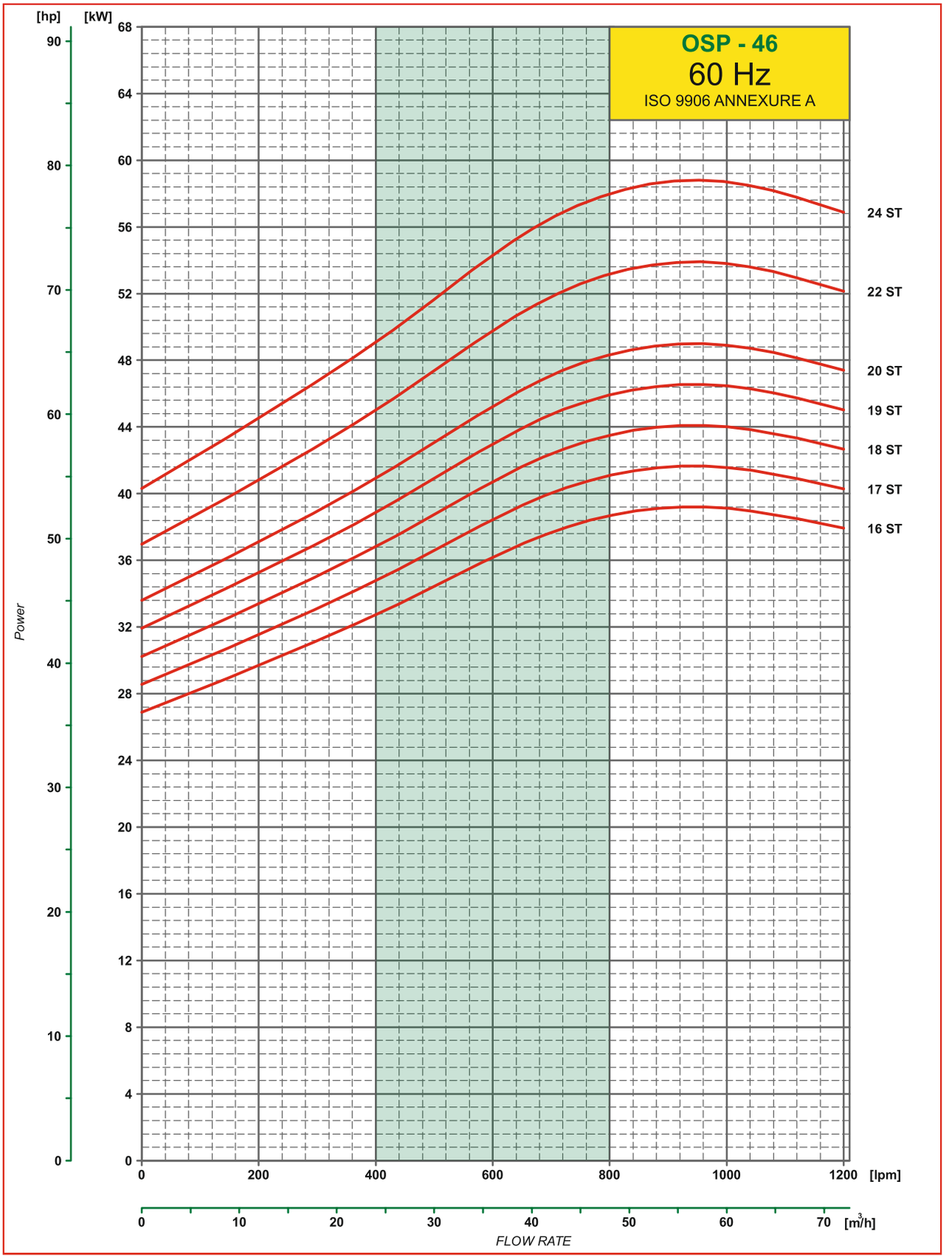
Performance Curves



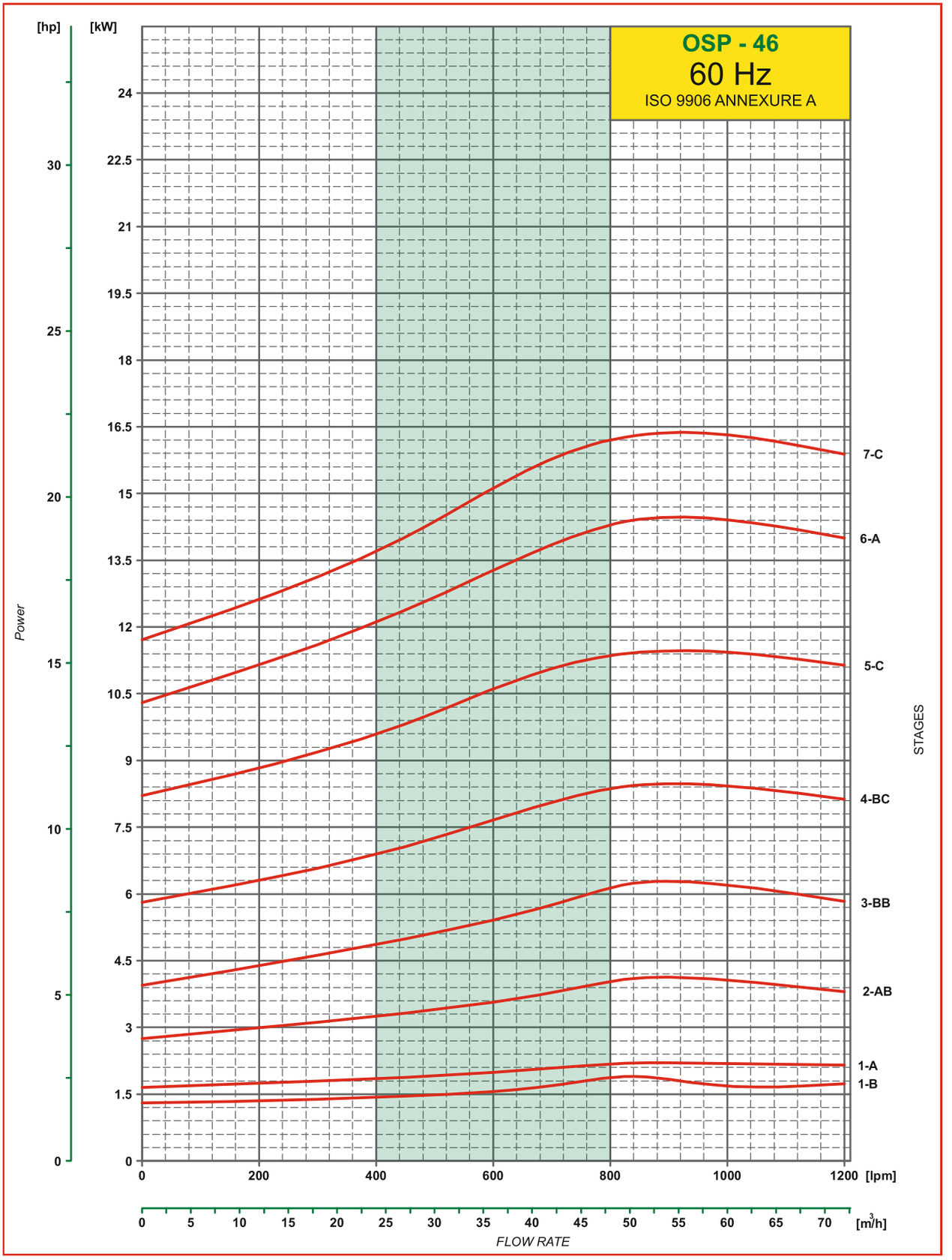
Power Curves



Power Curves



Power Curves



Performance Table

Submersible Pump | **60 Hz** | **OSP - 60**

MODEL 60 Hz	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
						USGPM	**0**	126.8	190.2	253.6	316.9	380.3
						GPM	**0**	**105.6**	**158.4**	**211.2**	**264.0**	**316.8**
						LPM	0	480	720	960	**1200**	1440
OSP-60/1-B(P4)60(4X6)	2.2	3	1-B	V-4	4"	A E H	11	10	7	6	**3**	1
OSP-60/1-A(P4)60(6X6)	3	4	1-A	V-6	4"		16	13	10	9	**5**	1
OSP-60/1(P4)60(6X6)	3.7	5	1	V-6	4"		20	18	16	14	**11**	8
OSP-60/2-BB(P4)60(6X6)	3.7	5	2-BB	V-6	4"		21	20	14	12	**6**	2
OSP-60/2(P4)60(6X6)	5.5	7.5	2	V-6	4"		40	37	32	27	**22**	16
OSP-60/3-A(P4)60(6X6)	7.5	10	3-A	V-6	4"		56	50	42	35	**27**	17
OSP-60/3(P4)60(6X6)	9.3	12.5	3	V-6	4"		61	55	48	41	**33**	24
OSP-60/4-AA(P4)60(6X6)	9.3	12.5	4-AA	V-6	4"		72	63	52	44	**33**	17
OSP-60/4(P4)60(6X6)	11	15	4	V-6	4"		81	74	64	54	**44**	32
OSP-60/5(P4)60(6X6)	13	17.5	5	V-6	4"		101	92	80	68	**56**	40
OSP-60/6-B(P4)60(6X6)	15	20	6-B	V-6	4"		111	102	87	74	**59**	41
OSP-60/6(P4)60(6X6)	18.5	25	6	V-6	4"		121	110	96	81	**67**	47
OSP-60/7(P4)60(6X6)	18.5	25	7	V-6	4"		141	129	112	95	**78**	55
OSP-60/8(P4)60(6X6)	22	30	8	V-6	4"		162	147	128	108	**89**	63
OSP-60/9-B(P4)60(6X6)	22	30	9-B	V-6	4"		172	157	135	114	**92**	64
OSP-60/9(P4)60(6X6)	26	35	9	V-6	4"		182	166	144	122	**100**	71
OSP-60/10(P4)60(6X6)	26	35	10	V-6	4"		202	184	160	135	**111**	79
OSP-60/11(P4)60(6X6)	30	40	11	V-6	4"		222	202	176	149	**122**	87
OSP-60/12(P4)60(6X6)	37	50	12	V-6	4"		242	221	192	162	**133**	95
OSP-60/13(P4)60(6X6)	37	50	13	V-6	4"		263	239	208	176	**144**	103
OSP-60/14(P4)60(6X6)	37	50	14	V-6	4"		283	258	224	189	**155**	111
OSP-60/15(P4)60(8X6)	45	60	15	V-8	4"		303	276	240	203	**167**	119
OSP-60/16(P4)60(8X6)	45	60	16	V-8	4"		323	294	256	216	**178**	126
OSP-60/17(P4)60(8X6)	45	60	17	V-8	4"		343	313	272	230	**189**	134
OSP-60/18(P4)60(8X6)	55	75	18	V-8	4"		364	331	288	243	**200**	142
OSP-60/19(P4)60(8X6)	55	75	19	V-8	4"		384	350	304	257	**211**	150
OSP-60/20(P4)60(8X6)	55	75	20	V-8	4"		404	368	320	270	**222**	158
OSP-60/21(P4)60(8X6)	67	90	21	V-8	4"		424	386	336	284	**233**	166

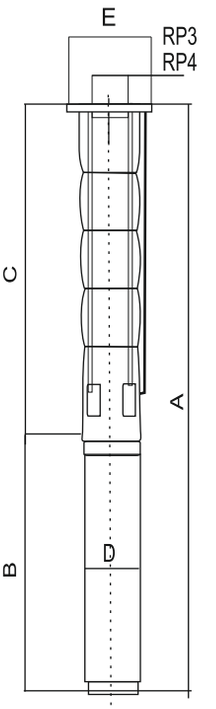
Technical Data

Submersible Pump

OSP - 60

MODEL 60 Hz	Stage	MOTOR		PUMP				Motor
		Joining Motor	Power (KW)	Weight Kg	Length C(mm)	E* (mm)	E** (mm)	OD (mm)
OSP-60/1-B(P4)60(4X6)	1-B	V-4	2.2	7.5	393	145		97
OSP-60/1-A(P4)60(6X6)	1-A	V-6	3	7.5	393	145		146
OSP-60/1(P4)60(6X6)	1	V-6	3.7	8.6	393	145	152	146
OSP-60/2-BB(P4)60(6X6)	2-BB	V-6	3.7	10.9	506	145	152	146
OSP-60/2(P4)60(6X6)	2	V-6	5.5	10.9	506	145	152	146
OSP-60/3-A(P4)60(6X6)	3-A	V-6	7.5	13.3	619	147	152	146
OSP-60/3(P4)60(6X6)	3	V-6	9.3	13.3	619	147	152	146
OSP-60/4-AA(P4)60(6X6)	4-AA	V-6	9.3	15.7	732	147	152	146
OSP-60/4(P4)60(6X6)	4	V-6	11	15.7	732	147	152	146
OSP-60/5(P4)60(6X6)	5	V-6	13	18.0	845	147	152	146
OSP-60/6-B(P4)60(6X6)	6-B	V-6	15	20.4	958	147	152	146
OSP-60/6(P4)60(6X6)	6	V-6	18.5	20.4	958	147	152	146
OSP-60/7(P4)60(6X6)	7	V-6	18.5	22.7	1071	147	152	146
OSP-60/8(P4)60(6X6)	8	V-6	22	25.1	1184	147	152	146
OSP-60/9-B(P4)60(6X6)	9-B	V-6	22	27.4	1297	147	152	146
OSP-60/9(P4)60(6X6)	9	V-6	26	27.4	1297	147	152	146
OSP-60/10(P4)60(6X6)	10	V-6	26	29.8	1410	147	152	146
OSP-60/11(P4)60(6X6)	11	V-6	30	32.1	1523	147	152	146
OSP-60/12(P4)60(6X6)	12	V-6	37	34.5	1636	147	152	146
OSP-60/13(P4)60(6X6)	13	V-6	37	36.9	1749	147	152	146
OSP-60/14(P4)60(6X6)	14	V-6	37	39.2	1862	147	152	146
OSP-60/15(P4)60(8X6)	15	V-8	45	44.5	2010	188	188	189
OSP-60/16(P4)60(8X6)	16	V-8	45	46.9	2123	188	188	189
OSP-60/17(P4)60(8X6)	17	V-8	45	49.3	2236	188	188	189
OSP-60/18(P4)60(8X6)	18	V-8	55	51.6	2349	188	188	189
OSP-60/19(P4)60(8X6)	19	V-8	55	54.0	2462	188	188	189
OSP-60/20(P4)60(8X6)	20	V-8	55	56.3	2575	188	188	189
OSP-60/21(P4)60(8X6)	21	V-8	67	58.7	2688	188	188	189

FIGURE

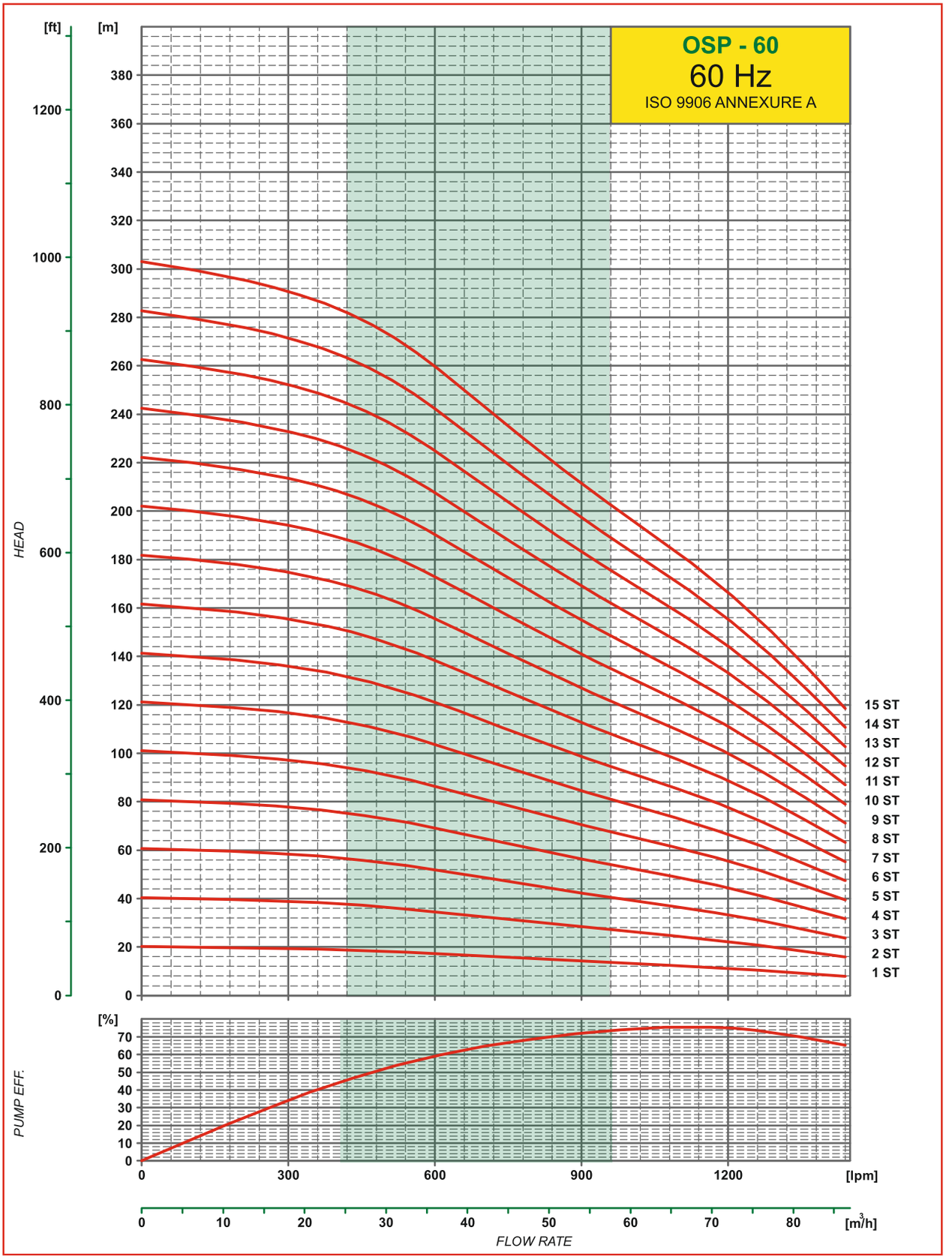


E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE

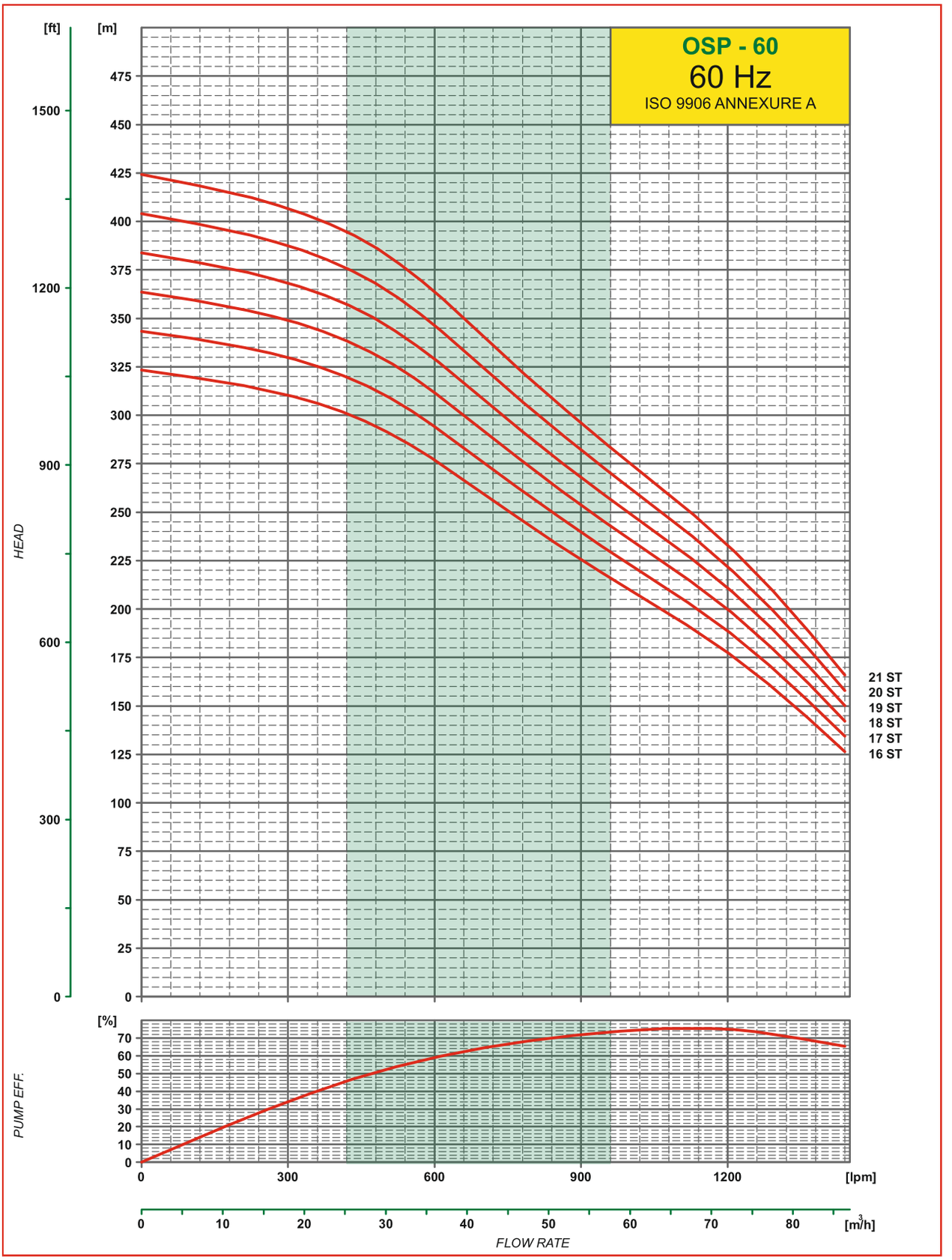
E** : MAX.DIA OF PUMP WITH TWO MOTOR CABLE

FROM : 1A STAGE TO 3A STAGE ALSO AVAILABLE WITH 4" MOTOR JOINING (4X6)

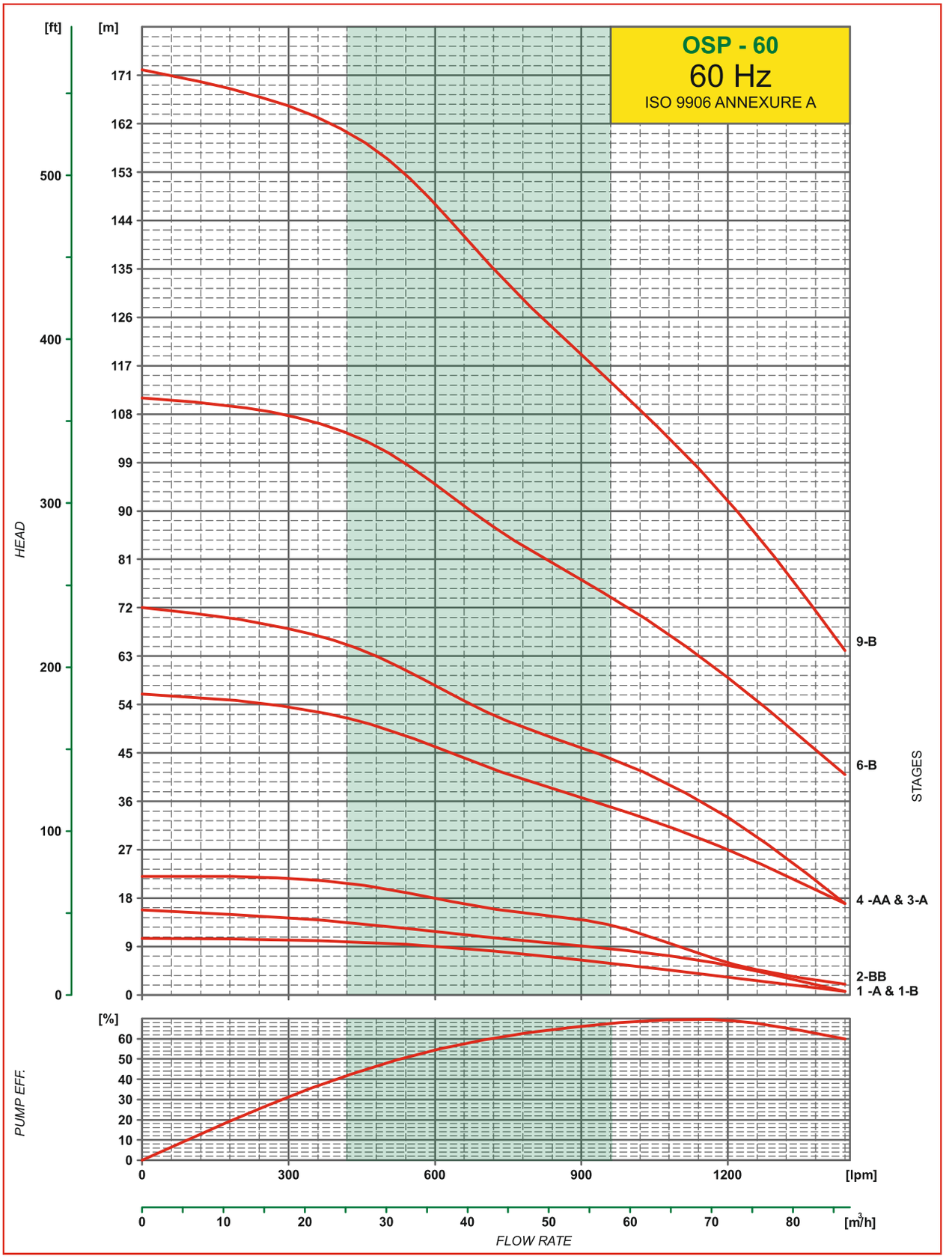
Performance Curves



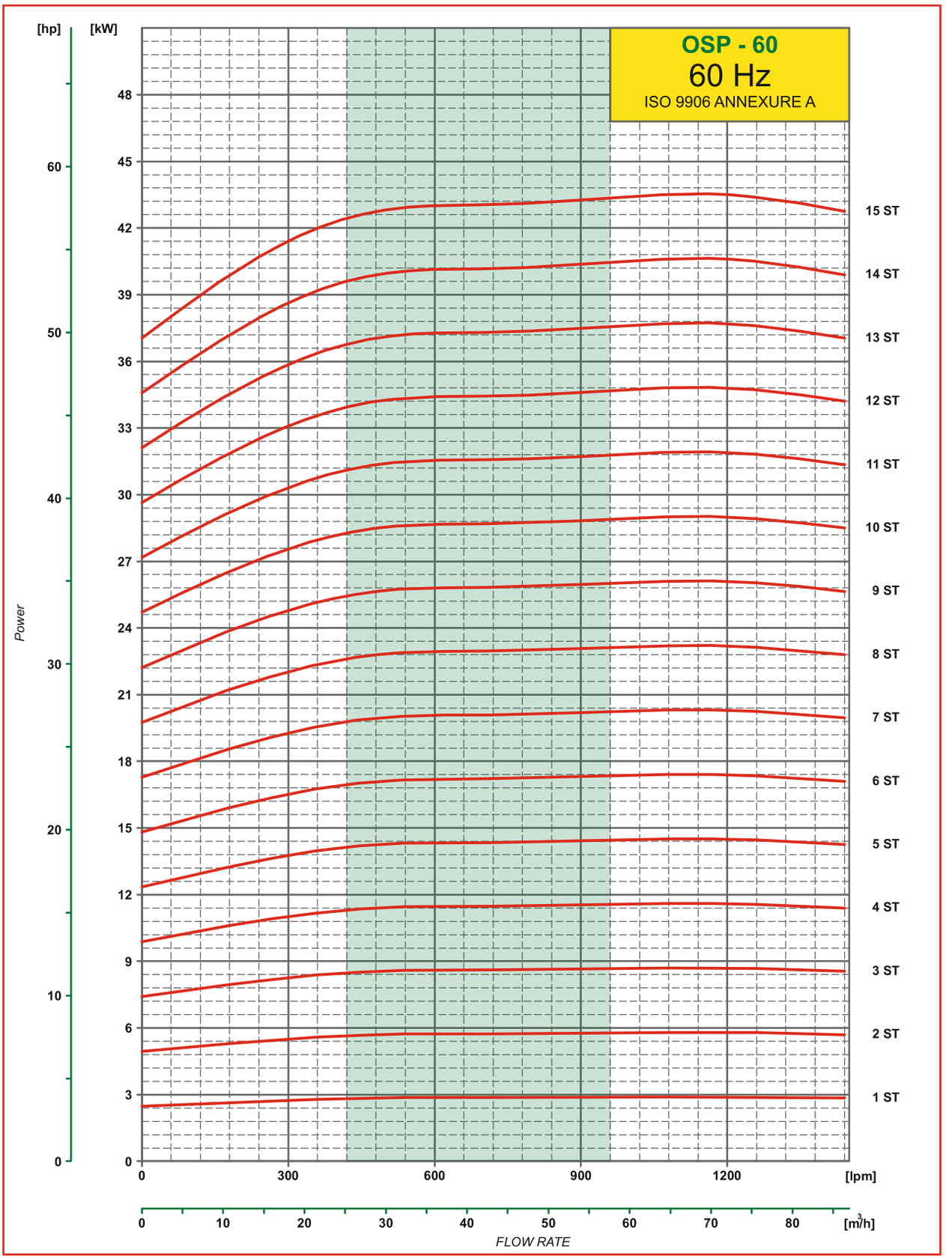
Performance Curves



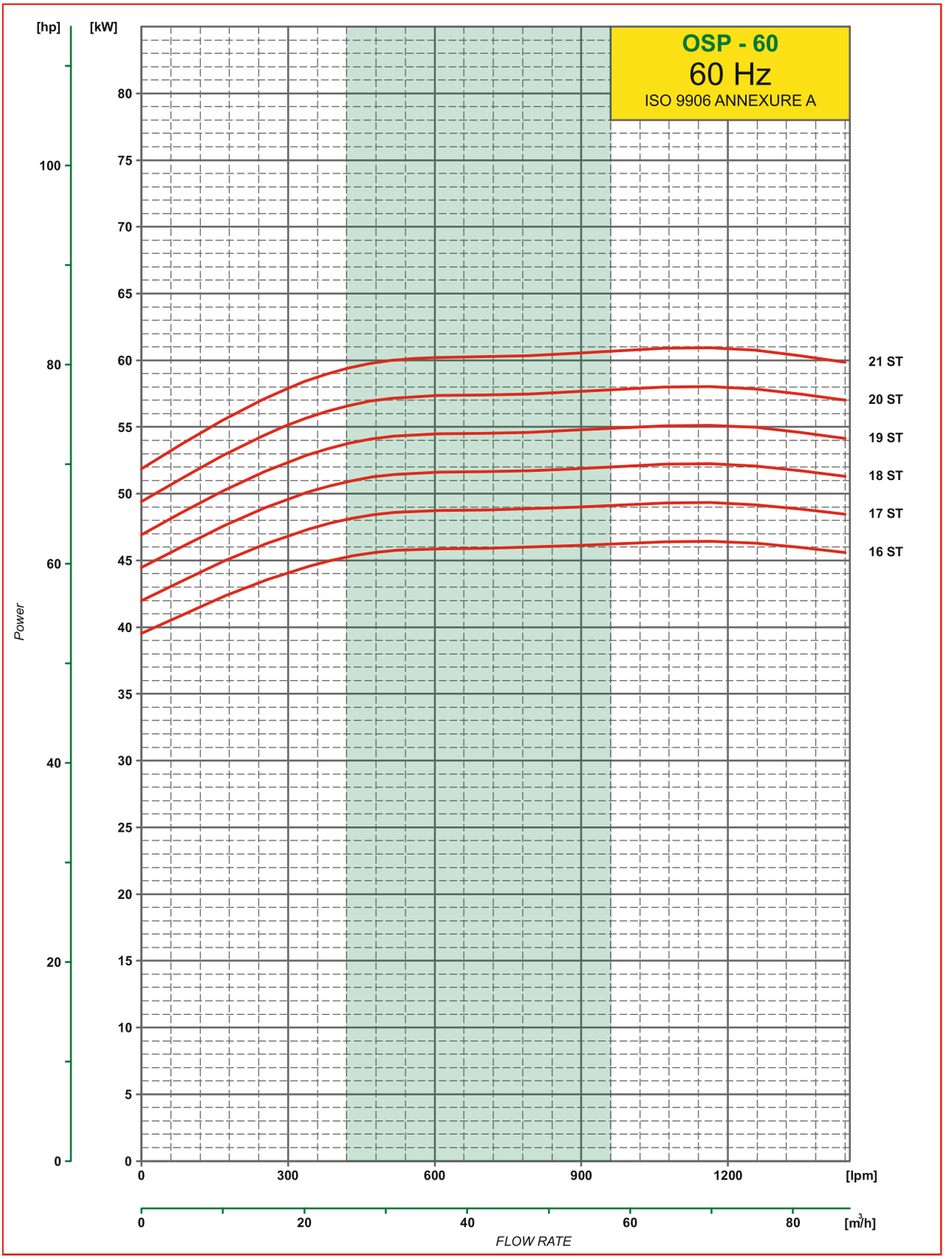
Performance Curves



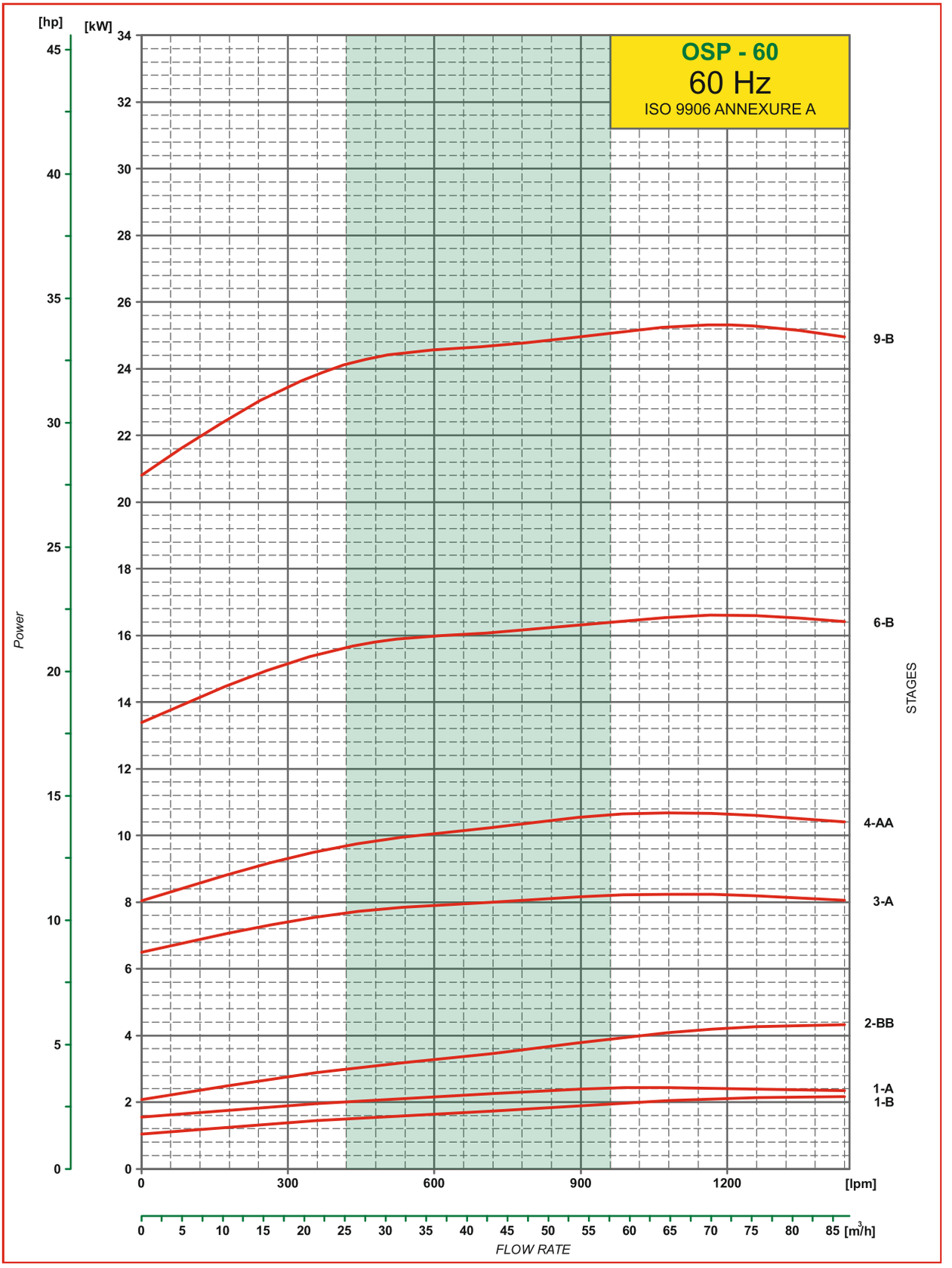
Power Curves



Power Curves



Power Curves



OSWAL STAR

8"

Submersible Pump

OSP-77 & OSP-95

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 Ambient temperature : 50°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

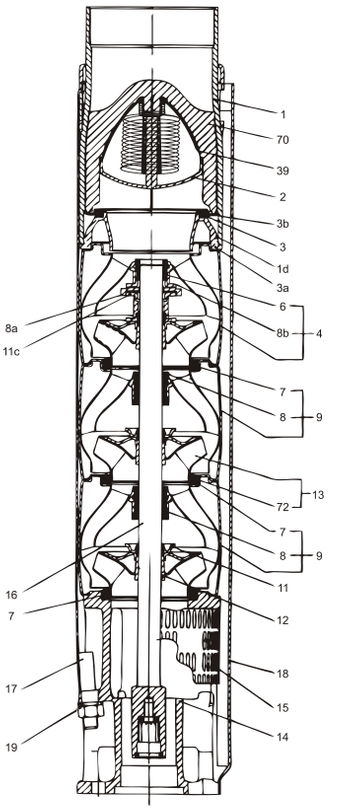
Also available in NPT connection

Material of Construction

MATERIAL SPECIFICATION OSP - 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

Submersible Pump | **60 Hz** | **OSP - 77**

MODEL 60 Hz	K.W.	H.P.	Stage	Motor joining	Out let Size in inches	Discharge						
						M^3/hr.	0	57.6	72	**86.4**	100.8	115.2
						USGPM	**0**	253.6	316.9	380.3	443.7	507.1
						GPM	**0**	**211.2**	**264.0**	**316.8**	**369.6**	**422.4**
						LPM	0	960	1200	**1440**	1680	1920
OSP-77/1(P4)60(6X8)	5.5	7.5	1	V-6	5"	A E H	29	23	21	**18**	16	11
OSP-77/2-AB(P4)60(6X8)	7.5	10	2-AB	V-6	5"		40	29	25	**21**	13	7
OSP-77/2-A(P4)60(6X8)	9.3	12.5	2-A	V-6	5"		50	39	35	**30**	23	17
OSP-77/2(P4)60(6X8)	11	15	2	V-6	5"		58	46	41	**37**	31	22
OSP-77/3-AA(P4)60(6X8)	13	17.5	3-AA	V-6	5"		71	55	49	**42**	31	22
OSP-77/3-A(P4)60(6X8)	15	20	3-A	V-6	5"		79	62	55	**49**	39	28
OSP-77/3(P4)60(6X8)	18.5	25	3	V-6	5"		86	69	62	**55**	47	34
OSP-77/4-B(P4)60(6X8)	18.5	25	4-B	V-6	5"		105	82	73	**64**	52	35
OSP-77/4(P4)60(6X8)	22	30	4	V-6	5"		115	92	83	**74**	62	45
OSP-77/5-BB(P4)60(6X8)	22	30	5-BB	V-6	5"		124	95	84	**73**	57	37
OSP - 77/5(P4)60(6X8)	26	35	5	V-6	5"		144	115	104	**92**	78	56
OSP - 77/6-B(P4)60(6X8)	30	40	6-B	V-6	5"		163	128	115	**101**	83	61
OSP - 77/6(P4)60(6X8)	37	50	6	V-6	5"		173	137	124	**110**	94	67
OSP - 77/7(P4)60(6X8)	37	50	7	V-6	5"		202	160	145	**129**	109	78
OSP - 77/8(P4)60(8X8)	45	60	8	V-8	5"		230	183	166	**147**	125	90
OSP - 77/9(P4)60(8X8)	55	75	9	V-8	5"		259	206	186	**166**	140	101
OSP - 77/10(P4)60(8X8)	55	75	10	V-8	5"		288	229	207	**184**	156	112
OSP - 77/11(P4)60(8X8)	67	90	11	V-8	5"		317	252	228	**202**	172	123
OSP - 77/12(P4)60(8X8)	67	90	12	V-8	5"		346	275	248	**221**	187	134
OSP - 77/13(P4)60(8X8)	75	100	13	V-8	5"		374	298	269	**239**	203	146
OSP - 77/14(P4)60(8X8)	93	125	14	V-8	5"		403	321	290	**258**	218	157
OSP - 77/15(P4)60(8X8)	93	125	15	V-8	5"		432	344	311	**276**	234	168

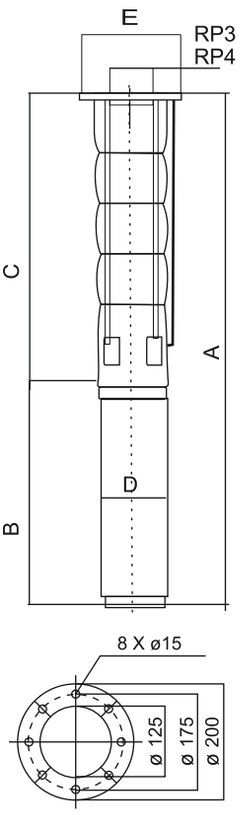
Technical Data

Submersible Pump

OSP - 77

MODEL 60 Hz		MOTOR		PUMP				Motor
	Stage	Joining Motor	Power (KW)	Weight Kg	Length C(mm)	E* (mm)	E** (mm)	OD (mm)
OSP-77/1(P4)60(6X8)	1	V-6	5.5	19.0	610	200	200	146
OSP-77/2-AB(P4)60(6X8)	2-AB	V-6	7.5	22.8	738	200	200	146
OSP-77/2-A(P4)60(6X8)	2-A	V-6	9.3	22.8	738	200	200	146
OSP-77/2(P4)60(6X8)	2	V-6	11	22.8	738	200	200	146
OSP-77/3-AA(P4)60(6X8)	3-AA	V-6	13	26.6	866	200	200	146
OSP-77/3-A(P4)60(6X8)	3-A	V-6	15	26.6	866	200	200	146
OSP-77/3(P4)60(6X8)	3	V-6	18.5	26.6	866	200	200	146
OSP-77/4-B(P4)60(6X8)	4-B	V-6	18.5	30.5	994	200	200	146
OSP-77/4(P4)60(6X8)	4	V-6	22	30.5	994	200	200	146
OSP-77/5-BB(P4)60(6X8)	5-BB	V-6	22	34.3	1122	200	200	146
OSP - 77/5(P4)60(6X8)	5	V-6	26	34.3	1122	200	200	146
OSP - 77/6-B(P4)60(6X8)	6-B	V-6	30	38.1	1250	200	200	146
OSP - 77/6(P4)60(6X8)	6	V-6	37	38.1	1250	200	200	146
OSP - 77/7(P4)60(6X8)	7	V-6	37	41.9	1378	200	200	146
OSP - 77/8(P4)60(8X8)	8	V-8	45	48.7	1536	205	205	189
OSP - 77/9(P4)60(8X8)	9	V-8	55	52.5	1664	205	205	189
OSP - 77/10(P4)60(8X8)	10	V-8	55	56.3	1792	205	205	189
OSP - 77/11(P4)60(8X8)	11	V-8	67	60.2	1920	205	205	189
OSP - 77/12(P4)60(8X8)	12	V-8	67	64.0	2048	205	205	189
OSP - 77/13(P4)60(8X8)	13	V-8	75	67.8	2176	205	205	189
OSP - 77/14(P4)60(8X8)	14	V-8	93	71.6	2304	205	205	189
OSP - 77/15(P4)60(8X8)	15	V-8	93	75.5	2432	205	205	189

FIGURE

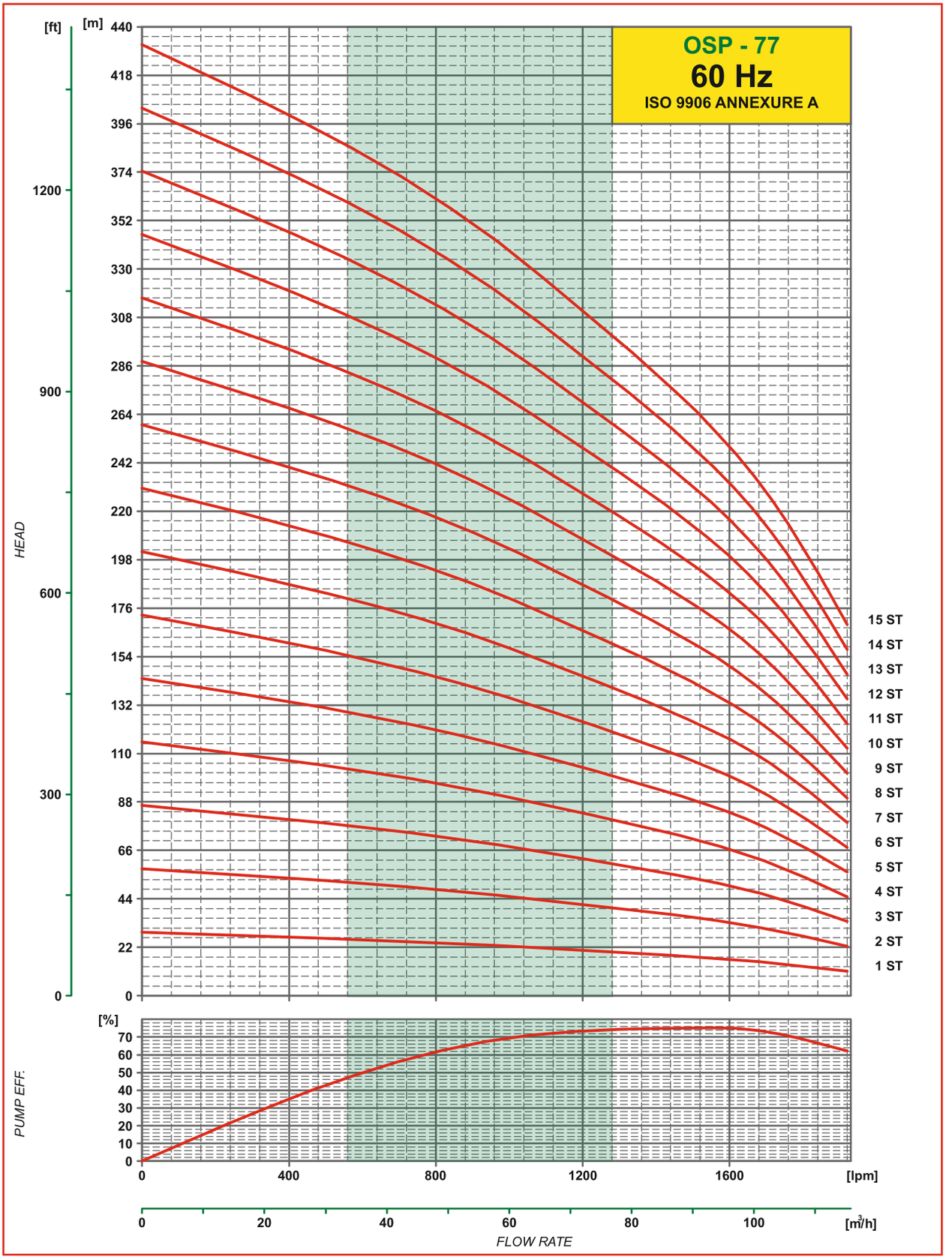


E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE

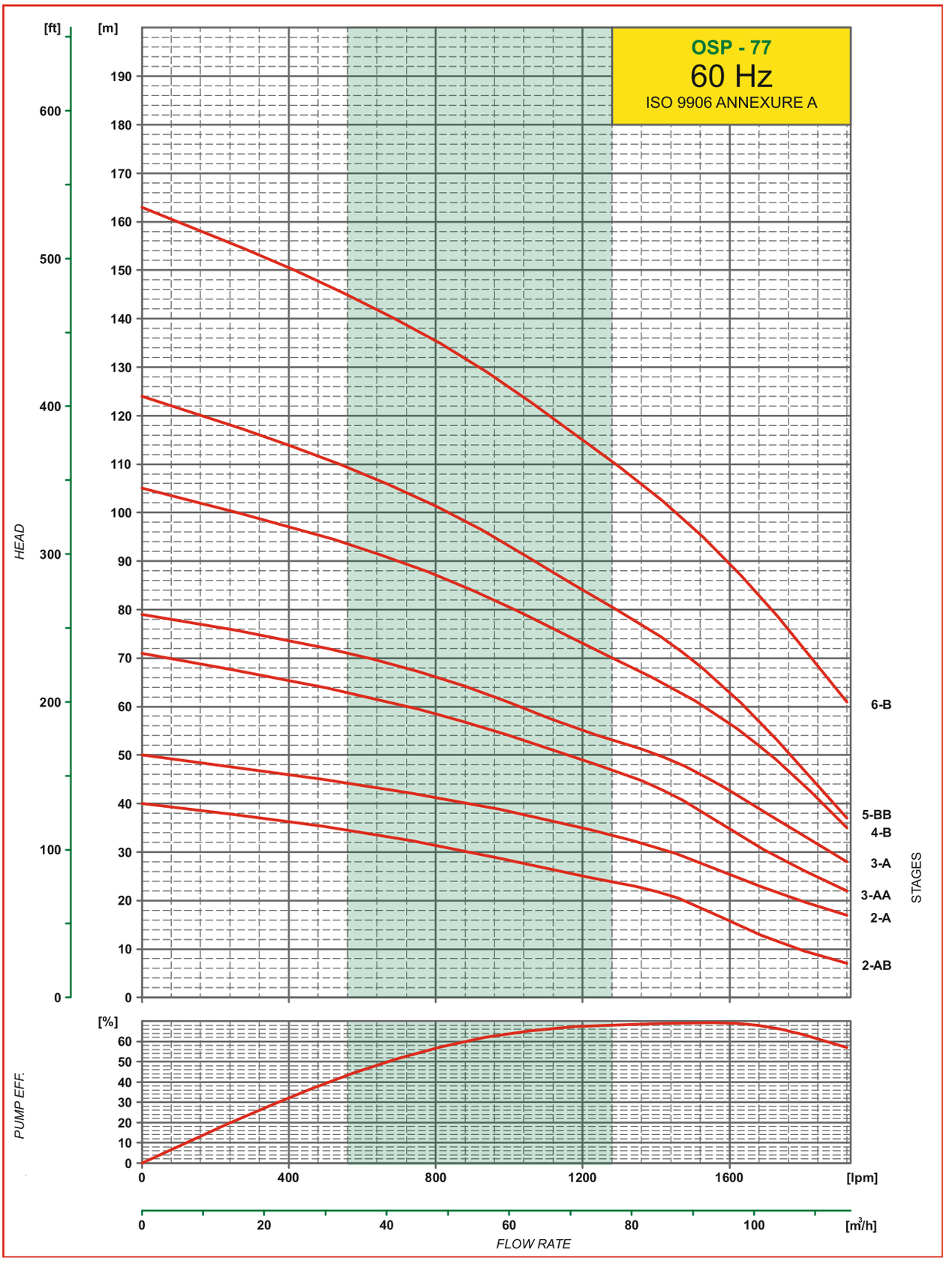
E** : MAX.DIA OF PUMP WITH TWO MOTOR CABLE

FROM : 1 STAGE TO 7 STAGE ALSO AVAILABLE WITH 8" MOTOR JOINING (8X8)

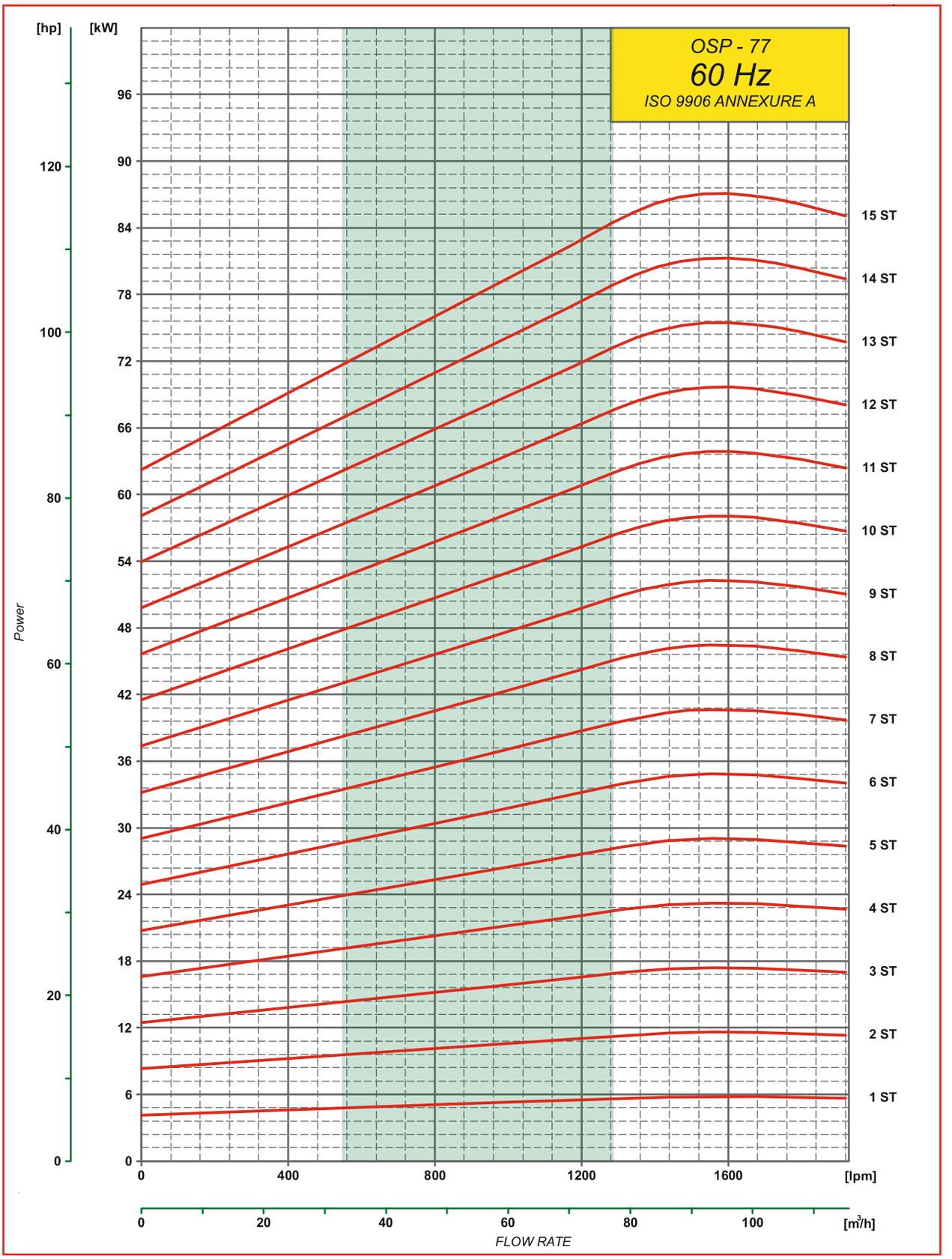
Performance Curves



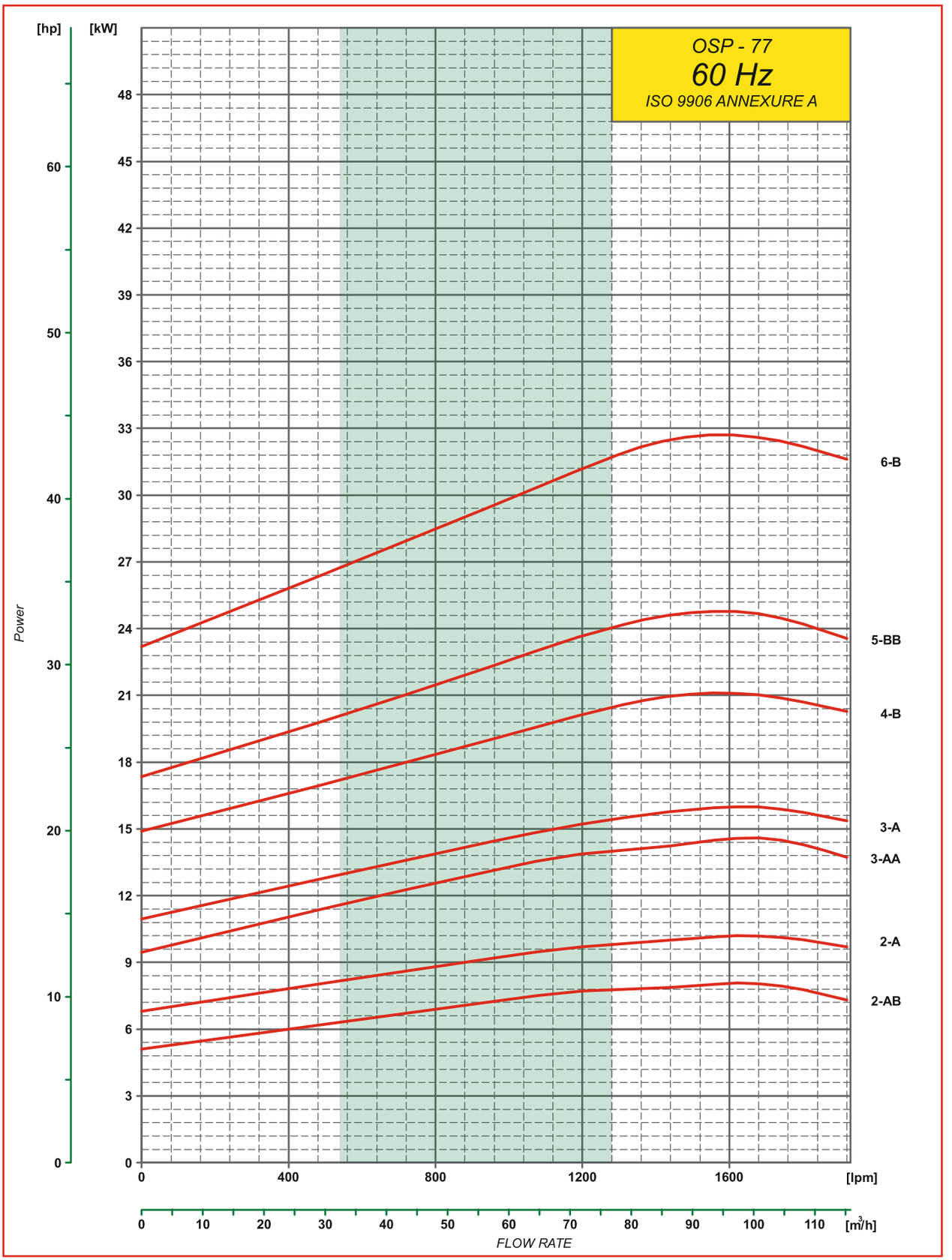
Performance Curves



Power Curves



Power Curves



Performance Table

Submersible Pump | **60 Hz** | **OSP - 95**

MODEL 60 Hz	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
						USGPM	**0**	253.6	380.3	507.1	570.5	633.9
						GPM	**0**	**211.2**	**316.8**	**422.4**	**475.2**	**528.0**
						LPM	0	960	1440	**1920**	2160	2400
OSP- 95/1-A(P4)60(6X8)	5.5	7.5	1-A	V-6	5"		25	18	15	**11**	7	4
OSP- 95/1(P4)60(6X8)	7.5	10	1	V-6	5"		31	25	21	**17**	14	10
OSP- 95/2-AB(P4)60(6X8)	9.3	12.5	2-AB	V-6	5"		45	33	28	**20**	11	8
OSP- 95/2-B(P4)60(6X8)	11	15	2-B	V-6	5"		50	40	35	**25**	18	10
OSP- 95/2(P4)60(6X8)	13	17.5	2	V-6	5"		62	50	43	**34**	28	19
OSP- 95/3-BB(P4)60(6X8)	15	20	3-BB	V-6	5"		69	56	48	**34**	22	10
OSP- 95/3-B(P4)60(6X8)	18.5	25	3-B	V-6	5"		81	66	57	**42**	32	19
OSP- 95/3(P4)60(6X8)	22	30	3	V-6	5"		92	75	64	**51**	42	29
OSP- 95/4-AB(P4)60(6X8)	22	30	4-AB	V-6	5"		106	83	70	**54**	39	23
OSP- 95/4(P4)60(6X8)	26	35	4	V-6	5"		123	100	85	**68**	56	39
OSP- 95/5-B(P4)60(6X8)	30	40	5-B	V-6	5"		142	116	99	**76**	60	39
OSP- 95/5(P4)60(6X8)	37	50	5	V-6	5"		154	125	107	**85**	70	48
OSP- 95/6(P4)60(6X8)	37	50	6	V-6	5"		185	149	128	**102**	84	58
OSP- 95/7(P4)60(8X8)	45	60	7	V-8	5"		216	174	149	**118**	98	68
OSP- 95/8(P4)60(8X8)	55	75	8	V-8	5"		247	199	170	**135**	112	77
OSP- 95/9(P4)60(8X8)	67	90	9	V-8	5"		277	224	192	**152**	126	87
OSP- 95/10(P4)60(8X8)	67	90	10	V-8	5"		308	249	213	**169**	140	97
OSP- 95/11(P4)60(8X8)	75	100	11	V-8	5"		339	274	234	**186**	154	106
OSP- 95/12(P4)60(8X8)	93	125	12	V-8	5"		370	299	256	**203**	168	116
OSP- 95/13(P4)60(8X8)	93	125	13	V-8	5"		401	324	277	**220**	182	125

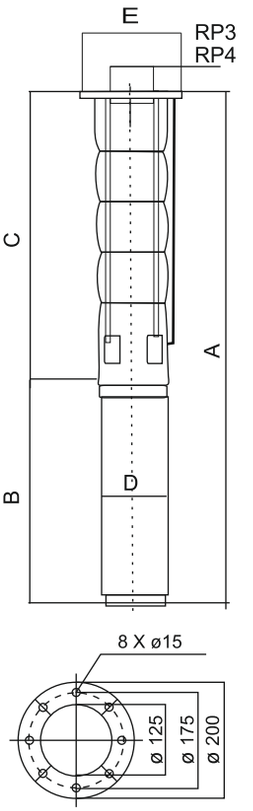
Technical Data

Submersible Pump

OSP - 95

MODEL 60 Hz	Stage	MOTOR		PUMP				Motor
		Joining Motor	Power (KW)	Weight Kg	Length C(mm)	E* (mm)	E** (mm)	OD (mm)
OSP- 95/1-A(P4)60(6X8)	1-A	V-6	5.5	19.0	610	200	200	146
OSP- 95/1(P4)60(6X8)	1	V-6	7.5	19.0	610	200	200	146
OSP- 95/2-AB(P4)60(6X8)	2-AB	V-6	9.3	22.8	738	200	200	146
OSP- 95/2-B(P4)60(6X8)	2-B	V-6	11	22.8	738	200	200	146
OSP- 95/2(P4)60(6X8)	2	V-6	13	22.8	738	200	200	146
OSP- 95/3-BB(P4)60(6X8)	3-BB	V-6	15	26.6	866	200	200	146
OSP- 95/3-B(P4)60(6X8)	3-B	V-6	18.5	26.6	866	200	200	146
OSP- 95/3(P4)60(6X8)	3	V-6	22	26.6	866	200	200	146
OSP- 95/4-AB(P4)60(6X8)	4-AB	V-6	22	30.5	994	200	200	146
OSP- 95/4(P4)60(6X8)	4	V-6	26	30.5	994	200	200	146
OSP- 95/5-B(P4)60(6X8)	5-B	V-6	30	34.3	1122	200	200	146
OSP- 95/5(P4)60(6X8)	5	V-6	37	34.3	1122	200	200	146
OSP- 95/6(P4)60(6X8)	6	V-6	37	38.1	1250	200	200	146
OSP- 95/7(P4)60(8X8)	7	V-8	45	44.9	1408	205	205	189
OSP- 95/8(P4)60(8X8)	8	V-8	55	48.7	1536	205	205	189
OSP- 95/9(P4)60(8X8)	9	V-8	67	52.5	1664	205	205	189
OSP- 95/10(P4)60(8X8)	10	V-8	67	56.3	1792	205	205	189
OSP- 95/11(P4)60(8X8)	11	V-8	75	60.2	1920	205	205	189
OSP- 95/12(P4)60(8X8)	12	V-8	93	64.0	2048	205	205	189
OSP- 95/13(P4)60(8X8)	13	V-8	93	67.8	2176	205	205	189

FIGURE

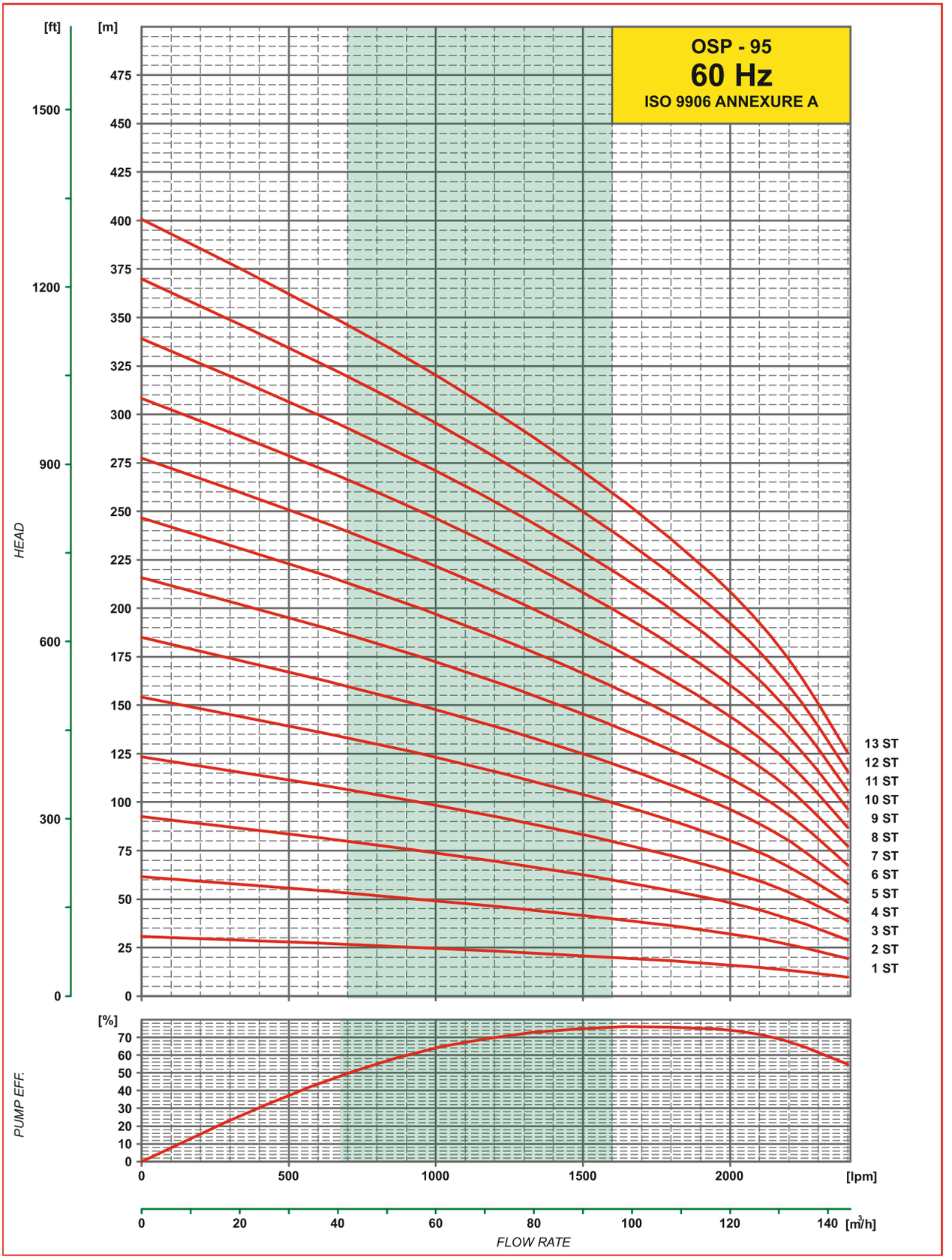


E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE

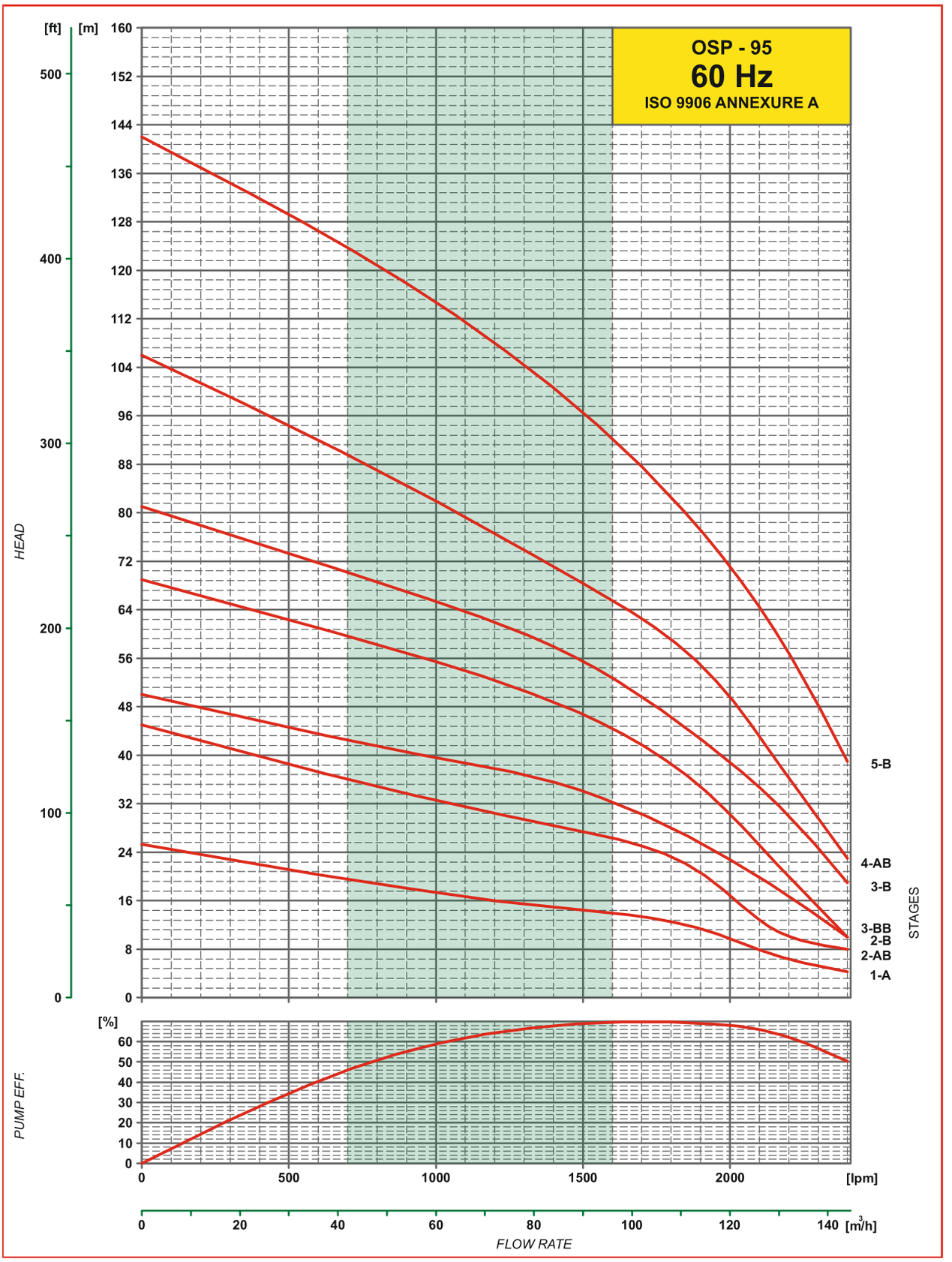
E** : MAX.DIA OF PUMP WITH TWO MOTOR CABLE

FROM : 1A STAGE TO 6 STAGE ALSO AVAILABLE WITH 8" MOTOR JOINING (8X8)

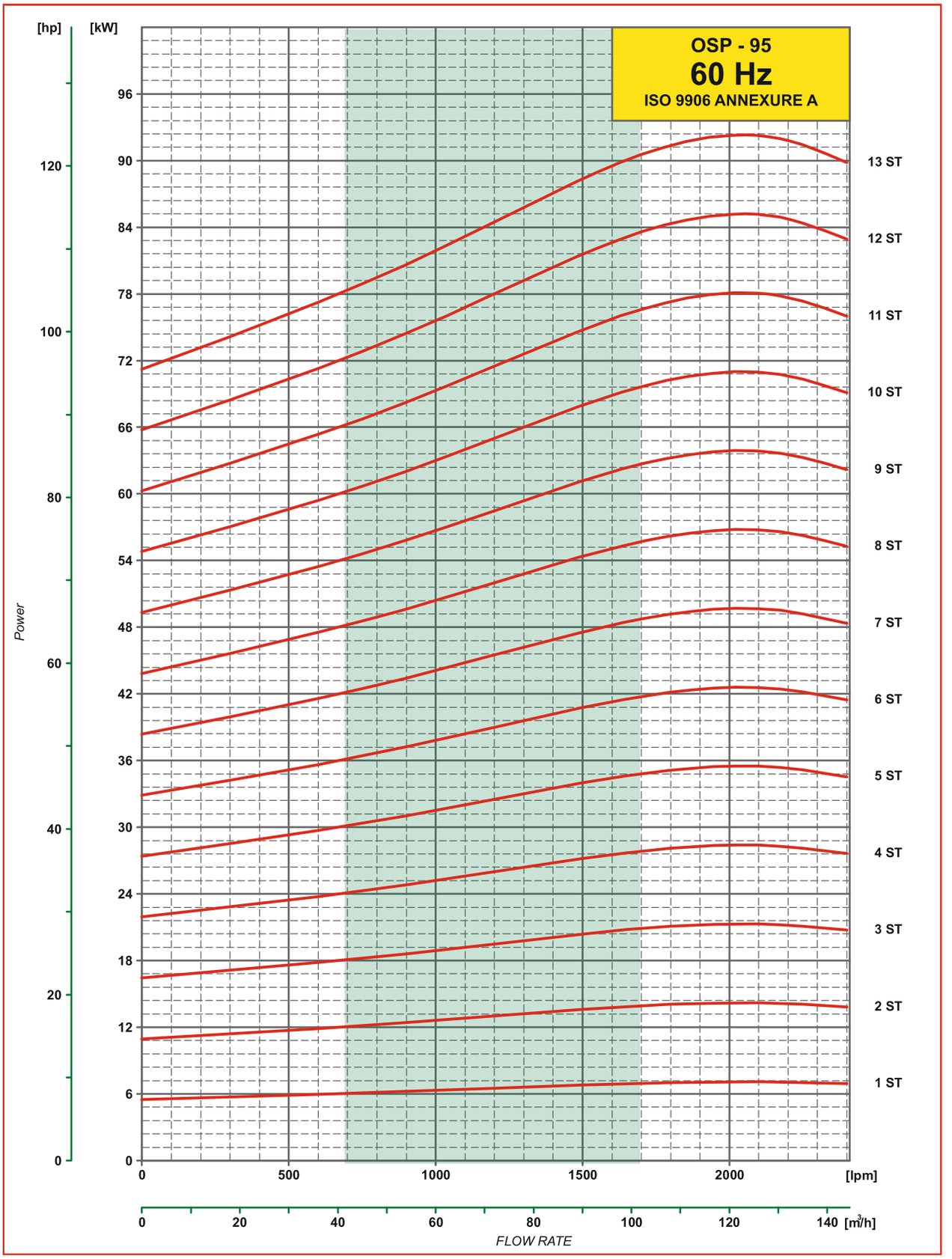
Performance Curves



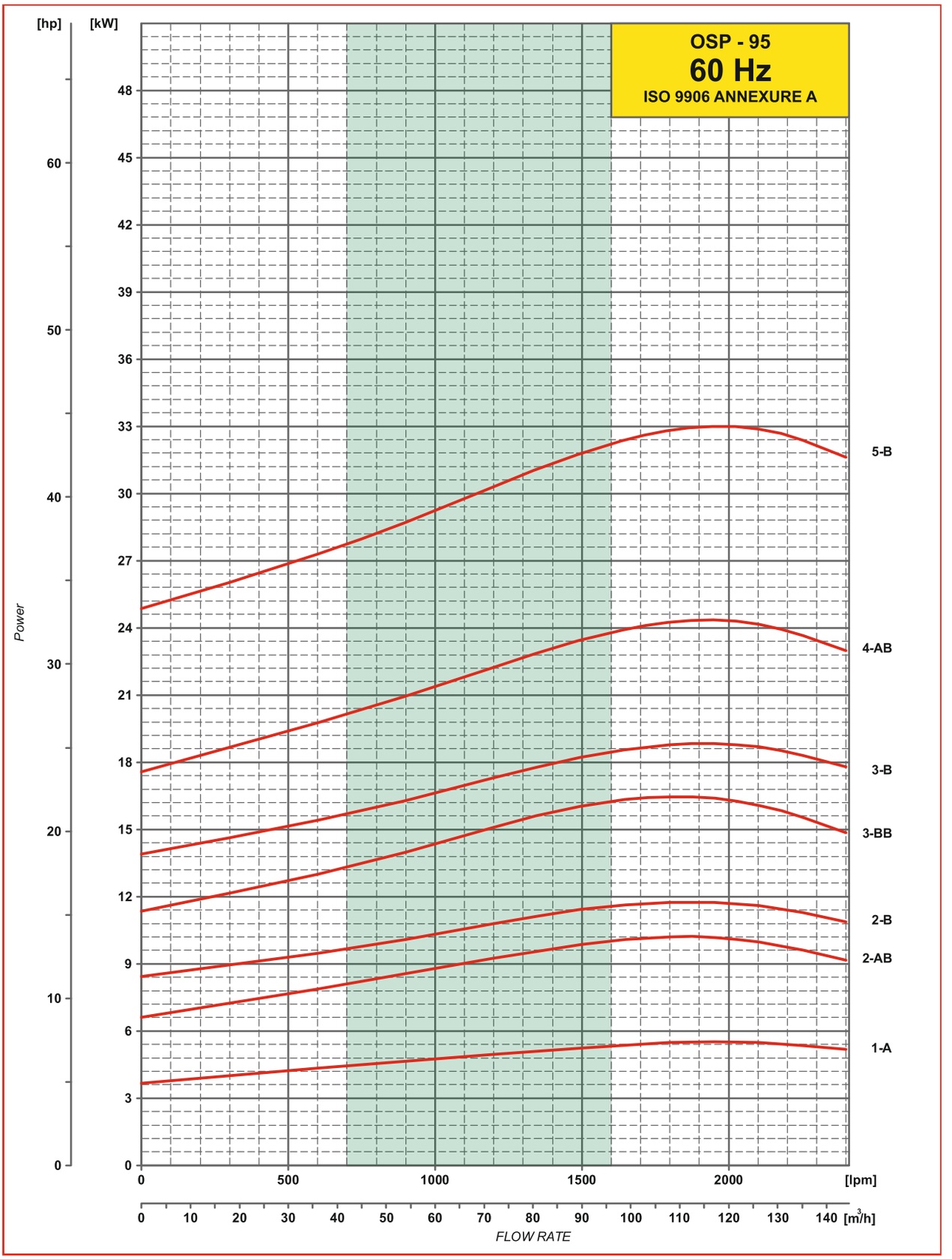
Performance Curves



Power Curves



Power Curves



OSWAL STAR

10”

Submersible Pump

OSP-125 & 0SP-160

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 Ambient temperature : 50ºc
- 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

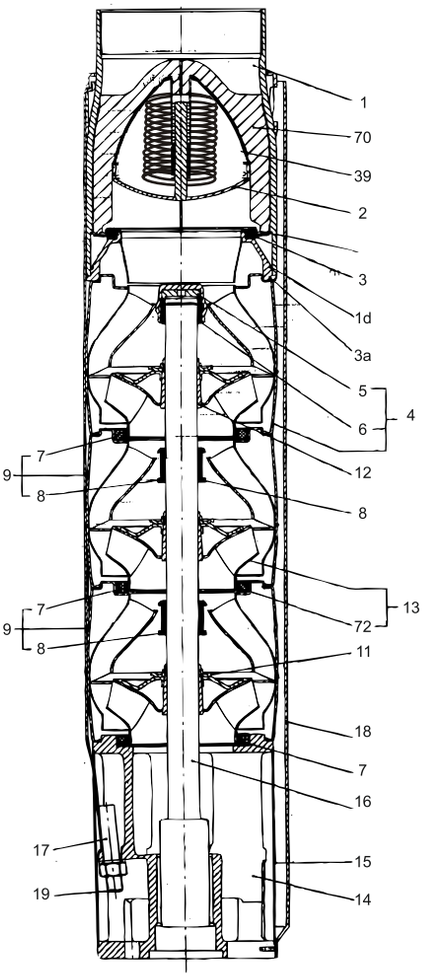
Also available in NPT connection

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

Submersible Pump | **60 Hz** | **OSP - 125**

MODEL 60 Hz	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
						USGPM	**0**	253.6	507.1	665.6	760.7	824.1
						GPM	**0**	**211.2**	**422.4**	**554.4**	**633.6**	**686.4**
						LPM	0	960	1920	**2520**	2880	3120
OSP-125/1-A(P4)60(6X10)	11	15	1-A	V-6	6"	HEX	30	28	23	**19**	14	9
OSP-125/1(P4)60(6X10)	18.5	25	1	V-6	6"		41	40	33	**29**	24	21
OSP-125/2-AA(P4)60(6X10)	22	30	2-AA	V-6	6"		60	56	46	**37**	27	19
OSP-125/2-A(P4)60(6X10)	26	35	2-A	V-6	6"		71	68	56	**47**	38	30
OSP-125/2(P4)60(6X10)	30	40	2	V-6	6"		82	80	66	**58**	49	42
OSP-125/3-AA(P4)60(6X10)	37	50	3-AA	V-6	6"		101	96	79	**66**	52	40
OSP-125/3-A(P4)60(6X10)	37	50	3-A	V-6	6"		112	108	89	**76**	63	51
OSP-125/3(P4)60(8X10)	45	60	3	V-8	6"		123	120	99	**86**	73	64
OSP-125/4-AA(P4)60(8X10)	55	75	4-AA	V-8	6"		142	136	112	**95**	76	61
OSP-125/4-A(P4)60(8X10)	55	75	4-A	V-8	6"		153	148	122	**105**	87	73
OSP-125/4(P4)60(8X10)	67	90	4	V-8	6"		164	160	132	**115**	98	85
OSP-125/5-AA(P4)60(8X10)	75	100	5-AA	V-8	6"		183	176	145	**124**	101	82
OSP-125/5-A(P4)60(8X10)	75	100	5-A	V-8	6"		194	188	155	**134**	112	94
OSP-125/5(P4)60(8X10)	75	100	5	V-8	6"		205	199	166	**144**	122	106
OSP-125/6-AA(P4)60(8X10)	75	100	6-AA	V-8	6"		224	216	178	**153**	125	103
OSP-125/6-A(P4)60(8X10)	93	125	6-A	V-8	6"		235	228	188	**163**	136	115
OSP-125/6(P4)60(8X10)	93	125	6	V-8	6"		246	239	199	**173**	147	127
OSP-125/7-AA(P4)60(8X10)	93	125	7-AA	V-8	6"		265	256	211	**181**	149	125
OSP-125/7-A(P4)60(8X10)	93	125	7-A	V-8	6"		276	267	221	**191**	161	136
OSP-125/7(P4)60(10X10)	110	150	7	V-10	6"		287	279	232	**202**	171	148
OSP-125/8(P4)60(10X10)	130	175	8	V-10	6"		328	319	265	**230**	196	169
OSP-125/9(P4)60(10X10)	130	175	9	V-10	6"		369	359	298	**259**	220	191
OSP-125/10(P4)60(10X10)	150	200	10	V-10	6"		410	399	331	**288**	245	212
OSP-125/11(P4)60(10X10)	185	250	11	V-10	6"		451	439	364	**317**	269	233
OSP-125/12(P4)60(10X10)	185	250	12	V-10	6"		492	479	397	**346**	294	254
OSP-125/13(P4)60(10X10)	185	250	13	V-10	6"		534	519	431	**374**	318	275

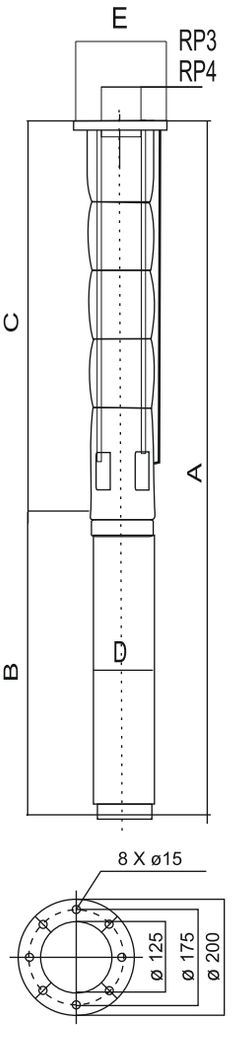
Technical Data

Submersible Pump

OSP - 125

MODEL 60 Hz	Stage	MOTOR		PUMP				Motor
		Joining Motor	Power (KW)	Weight Kg	Length C(mm)	E* (mm)	E** (mm)	OD (mm)
OSP-125/1-A(P4)60(6X10)	1-A	V-6	11	31.6	656	222	226	146
OSP-125/1(P4)60(6X10)	1	V-6	18.5	31.6	656	222	226	146
OSP-125/2-AA(P4)60(6X10)	2-AA	V-6	22	37.9	812	222	226	146
OSP-125/2-A(P4)60(6X10)	2-A	V-6	26	37.9	812	222	226	146
OSP-125/2(P4)60(6X10)	2	V-6	30	37.9	812	222	226	146
OSP-125/3-AA(P4)60(6X10)	3-AA	V-6	37	44.0	988	222	226	146
OSP-125/3-A(P4)60(6X10)	3-A	V-6	37	44.0	988	222	226	146
OSP-125/3(P4)60(8X10)	3	V-8	45	44.0	988	222	226	189
OSP-125/4-AA(P4)60(8X10)	4-AA	V-8	55	50.3	1144	222	226	189
OSP-125/4-A(P4)60(8X10)	4-A	V-8	55	50.3	1144	222	226	189
OSP-125/4(P4)60(8X10)	4	V-8	67	50.3	1144	222	226	189
OSP-125/5-AA(P4)60(8X10)	5-AA	V-8	75	56.6	1300	222	226	189
OSP-125/5-A(P4)60(8X10)	5-A	V-8	75	56.6	1300	222	226	189
OSP-125/5(P4)60(8X10)	5	V-8	75	56.6	1300	222	226	189
OSP-125/6-AA(P4)60(8X10)	6-AA	V-8	75	63.0	1456	222	226	189
OSP-125/6-A(P4)60(8X10)	6-A	V-8	93	63.0	1456	222	226	189
OSP-125/6(P4)60(8X10)	6	V-8	93	63.0	1456	222	226	189
OSP-125/7-AA(P4)60(8X10)	7-AA	V-8	93	70.4	1612	222	226	189
OSP-125/7-A(P4)60(8X10)	7-A	V-8	93	70.4	1612	222	226	189
OSP-125/7(P4)60(10X10)	7	V-10	110	70.9	1612	229	232	236
OSP-125/8(P4)60(10X10)	8	V-10	130	77.4	1768	229	232	236
OSP-125/9(P4)60(10X10)	9	V-10	130	83.9	1924	229	232	236
OSP-125/10(P4)60(10X10)	10	V-10	150	90.4	2080	229	232	236
OSP-125/11(P4)60(10X10)	11	V-10	185	97.0	2236	229	232	236
OSP-125/12(P4)60(10X10)	12	V-10	185	103.5	2392	229	232	236
OSP-125/13(P4)60(10X10)	13	V-10	185	110.0	2548	229	232	236

FIGURE

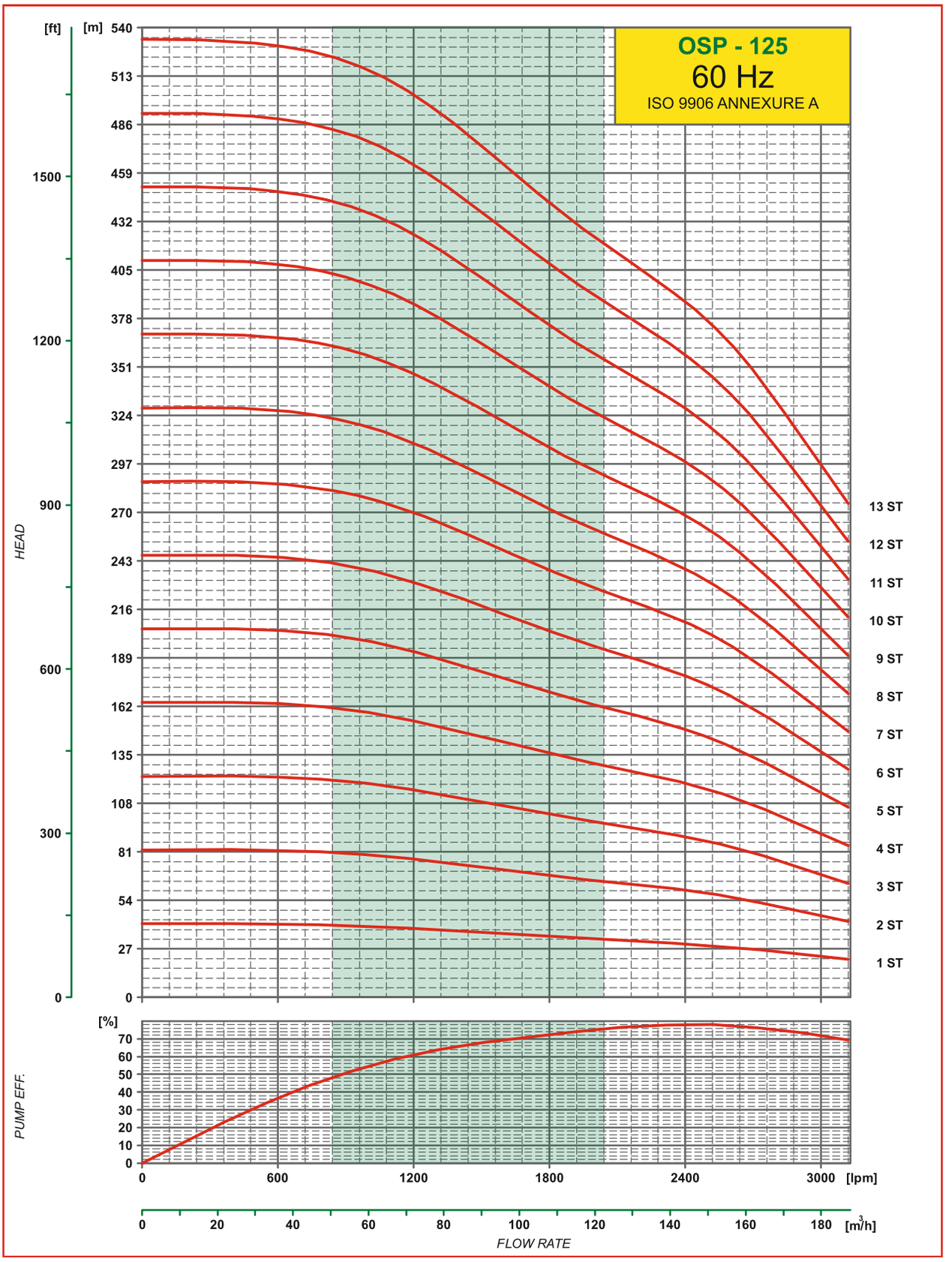


E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE

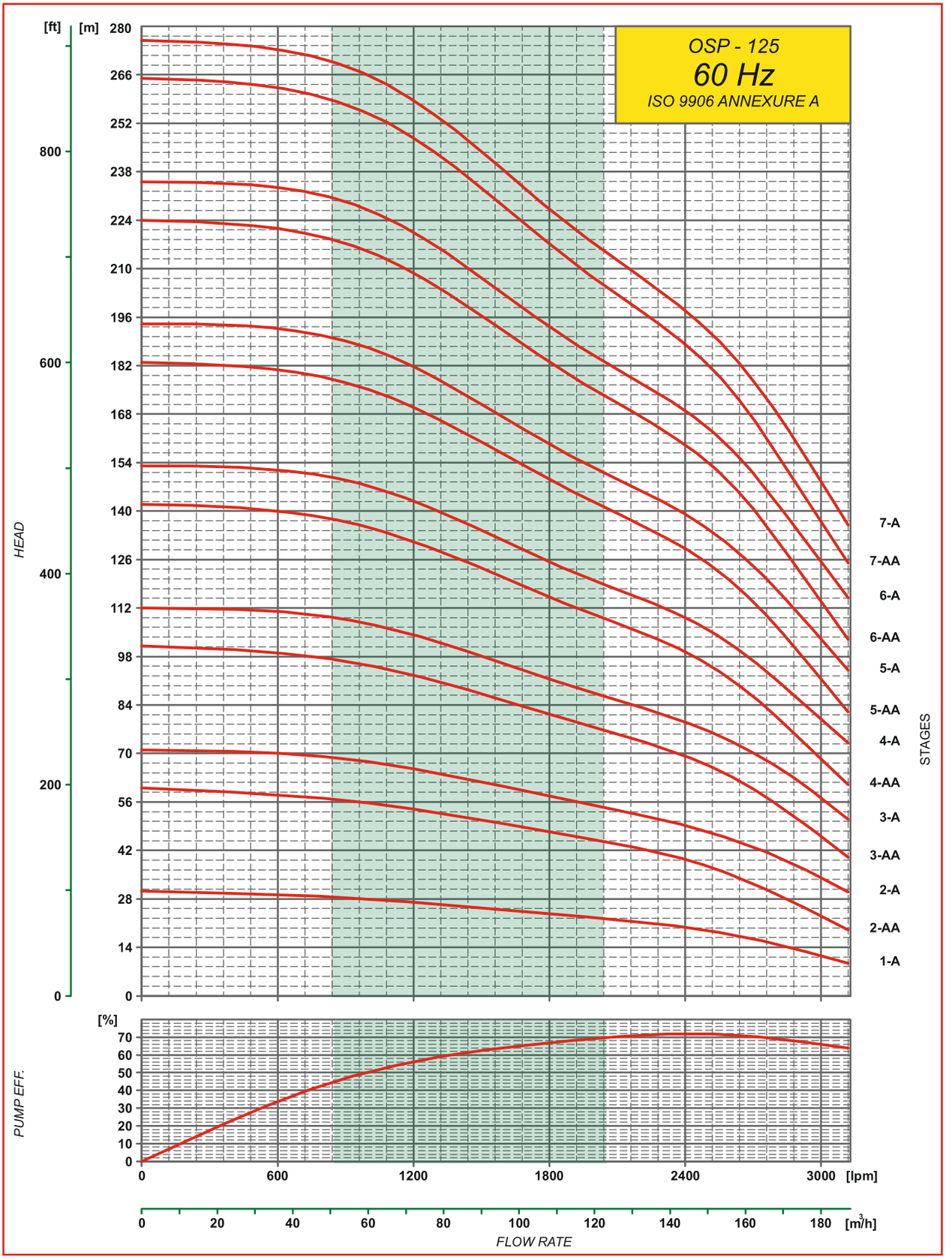
E** : MAX.DIA OF PUMP WITH TWO MOTOR CABLE

FROM : 1A STAGE TO 3A STAGE ALSO AVAILABLE WITH 8" MOTOR JOINING (8X10)

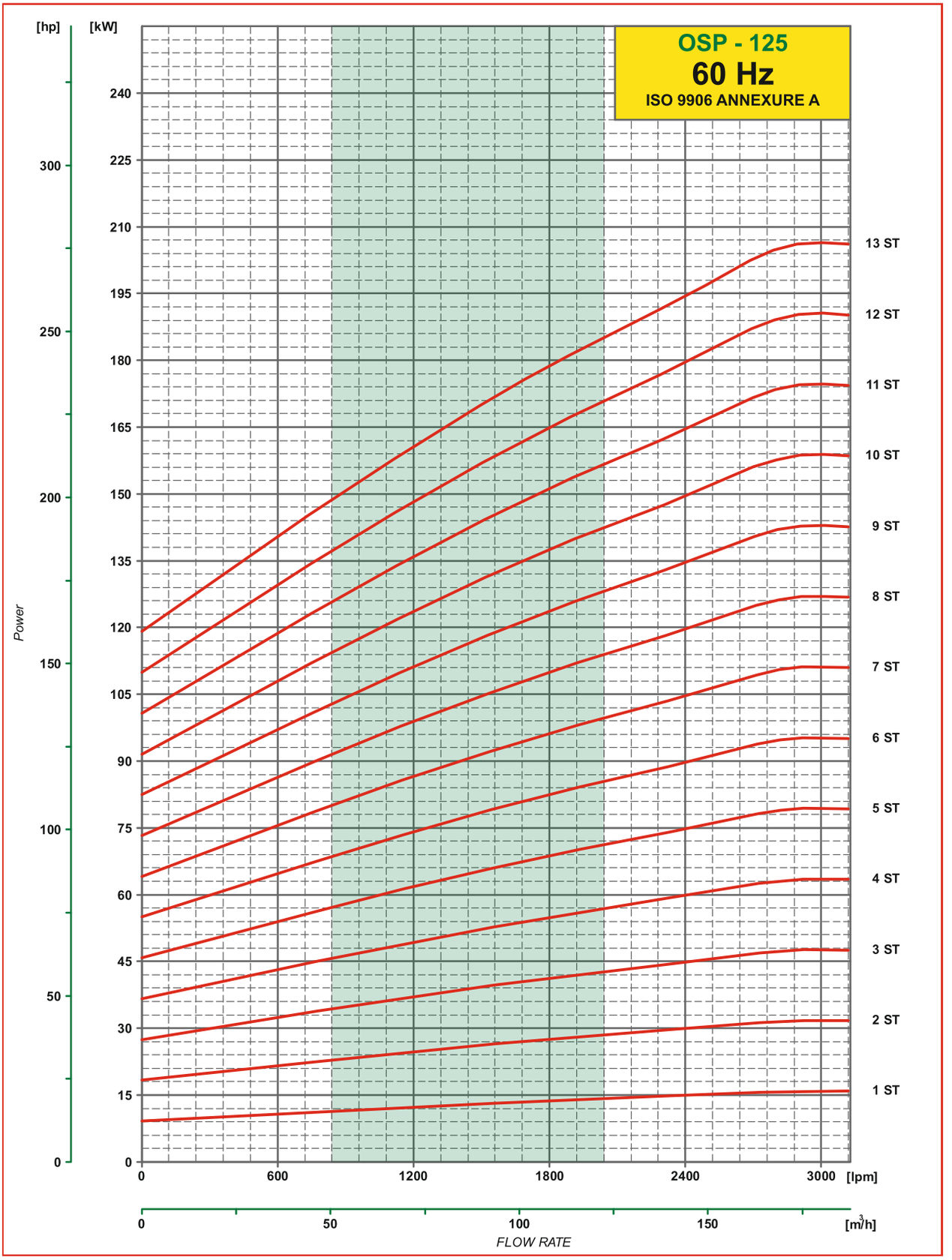
Performance Curves



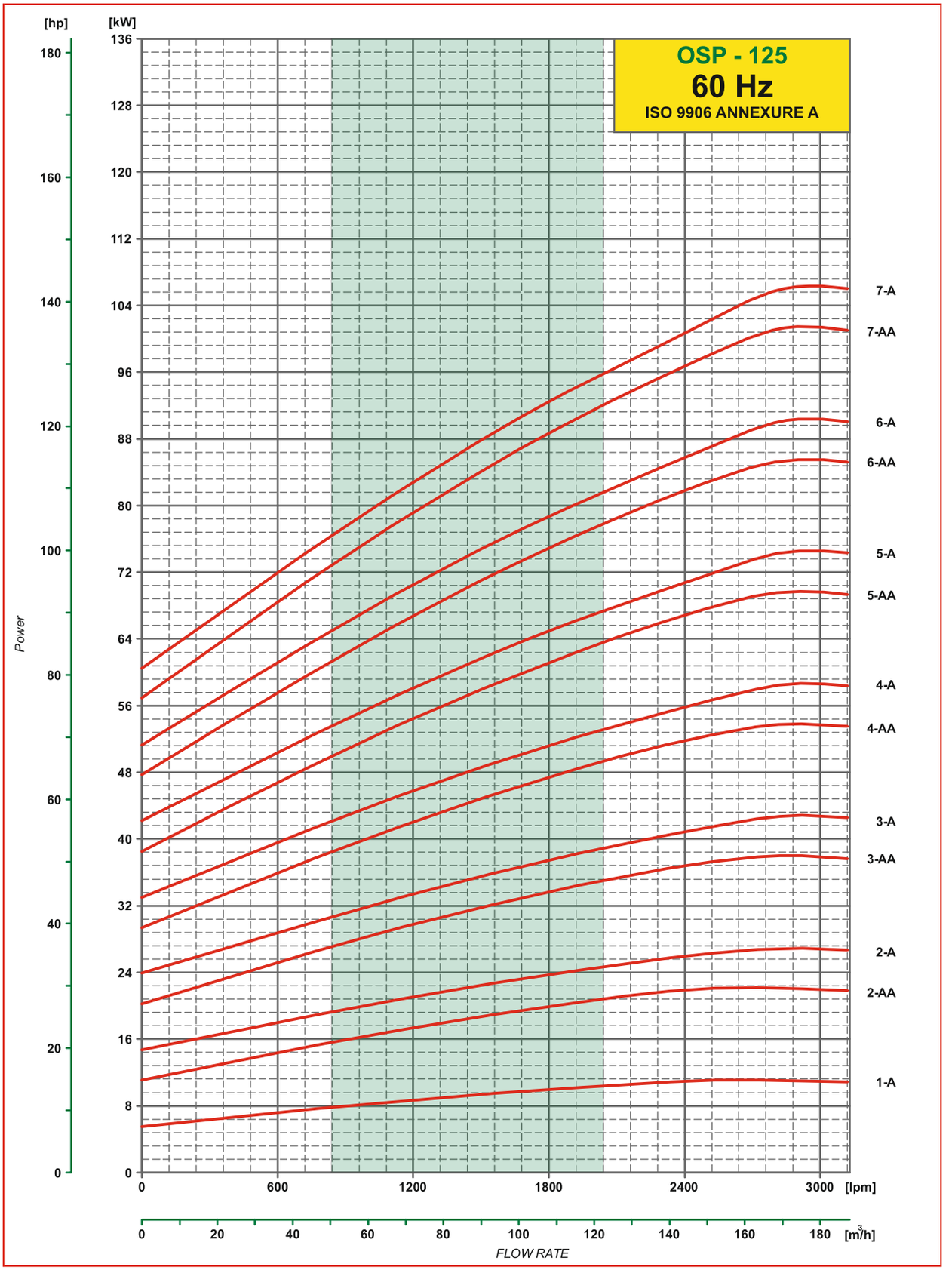
Performance Curves



Power Curves



Power Curves



Performance Table

Submersible Pump | **60 Hz** | **OSP - 160**

MODEL 60 Hz	K.W.	H.P.	Stage	Motor Joining	Out let Size in inches	Discharge						
						M^3/hr.	0	72	108	144	**194.4**	216
						USGPM	**0**	316.9	475.4	633.9	855.7	950.8
						GPM	**0**	**264.0**	**396.0**	**528.0**	**712.8**	**792.0**
						LPM	0	1200	1800	2400	**3240**	3600
OSP-160/1-A(P4)60(6X10)	15	20	1-A	V-6	6"		34	29	26	23	**17**	14
OSP-160/1(P4)60(6X10)	22	30	1	V-6	6"		46	42	38	34	**29**	25
OSP-160/2-AA(P4)60(6X10)	26	35	2-AA	V-6	6"		69	59	52	46	**34**	27
OSP-160/2-A(P4)60(6X10)	37	50	2-A	V-6	6"		80	72	63	56	**46**	39
OSP-160/2(P4)60(6X10)	37	50	2	V-6	6"		92	85	75	67	**58**	50
OSP-160/3-AA(P4)60(8X10)	45	60	3-AA	V-8	6"		115	101	90	80	**63**	53
OSP-160/3-A(P4)60(8X10)	55	75	3-A	V-8	6"		127	114	101	90	**75**	64
OSP-160/3(P4)60(8X10)	55	75	3	V-8	6"		138	127	113	101	**86**	76
OSP-160/4-AA(P4)60(8X10)	67	90	4-AA	V-8	6"		161	144	127	113	**92**	78
OSP-160/4-A(P4)60(8X10)	75	100	4-A	V-8	6"		173	157	139	124	**104**	89
OSP-160/4(P4)60(8X10)	75	100	4	V-8	6"		184	170	151	134	**115**	101
OSP-160/5-AA(P4)60(8X10)	93	125	5-AA	V-8	6"		207	186	165	147	**121**	103
OSP-160/5-A(P4)60(8X10)	93	125	5-A	V-8	6"	AEH	219	199	177	157	**132**	114
OSP-160/5(P4)60(8X10)	93	125	5	V-8	6"		230	212	189	168	**144**	126
OSP-160/6(P4)60(10X10)	110	150	6	V-10	6"		276	255	226	201	**173**	151
OSP-160/7(P4)60(10X10)	130	175	7	V-10	6"		323	297	264	235	**202**	176
OSP-160/8(P4)60(10X10)	150	200	8	V-10	6"		369	340	302	268	**230**	202
OSP-160/9(P4)60(10X10)	185	250	9	V-10	6"		415	382	340	302	**259**	227
OSP-160/10(P4)60(10X10)	185	250	10	V-10	6"		461	425	377	336	**288**	252

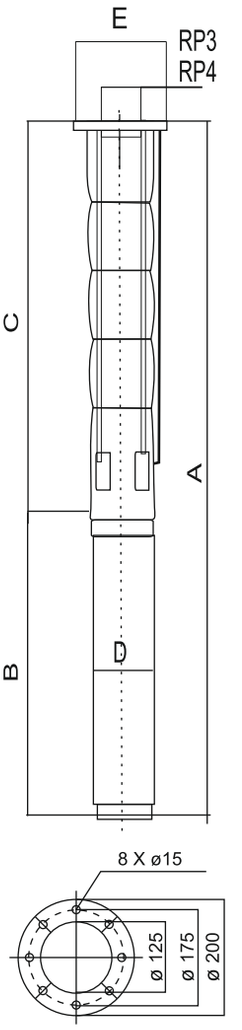
Technical Data

Submersible Pump

OSP - 160

MODEL 60 Hz	Stage	MOTOR		PUMP				Motor
		Joining Motor	Power (KW)	Weight Kg	Length C(mm)	E* (mm)	E** (mm)	OD (mm)
OSP-160/1-A(P4)60(6X10)	1-A	V-6	15	31.6	656	222	226	146
OSP-160/1(P4)60(6X10)	1	V-6	22	31.6	656	222	226	146
OSP-160/2-AA(P4)60(6X10)	2-AA	V-6	26	37.9	812	222	226	146
OSP-160/2-A(P4)60(6X10)	2-A	V-6	37	37.9	812	222	226	146
OSP-160/2(P4)60(6X10)	2	V-6	37	37.9	812	222	226	146
OSP-160/3-AA(P4)60(8X10)	3-AA	V-8	45	44.3	988	222	226	189
OSP-160/3-A(P4)60(8X10)	3-A	V-8	55	44.3	988	222	226	189
OSP-160/3(P4)60(8X10)	3	V-8	55	44.0	988	222	226	189
OSP-160/4-AA(P4)60(8X10)	4-AA	V-8	67	50.3	1144	222	226	189
OSP-160/4-A(P4)60(8X10)	4-A	V-8	75	50.3	1144	222	226	189
OSP-160/4(P4)60(8X10)	4	V-8	75	50.3	1144	222	226	189
OSP-160/5-AA(P4)60(8X10)	5-AA	V-8	93	56.6	1300	222	226	189
OSP-160/5-A(P4)60(8X10)	5-A	V-8	93	56.6	1300	222	226	189
OSP-160/5(P4)60(8X10)	5	V-8	93	56.6	1300	222	226	189
OSP-160/6(P4)60(10X10)	6	V-10	110	63.0	1456	229	232	236
OSP-160/7(P4)60(10X10)	7	V-10	130	69.3	1612	229	232	236
OSP-160/8(P4)60(10X10)	8	V-10	150	75.6	1768	229	232	236
OSP-160/9(P4)60(10X10)	9	V-10	185	81.9	1924	229	232	236
OSP-160/10(P4)60(10X10)	10	V-10	185	88.3	2080	229	232	236

FIGURE

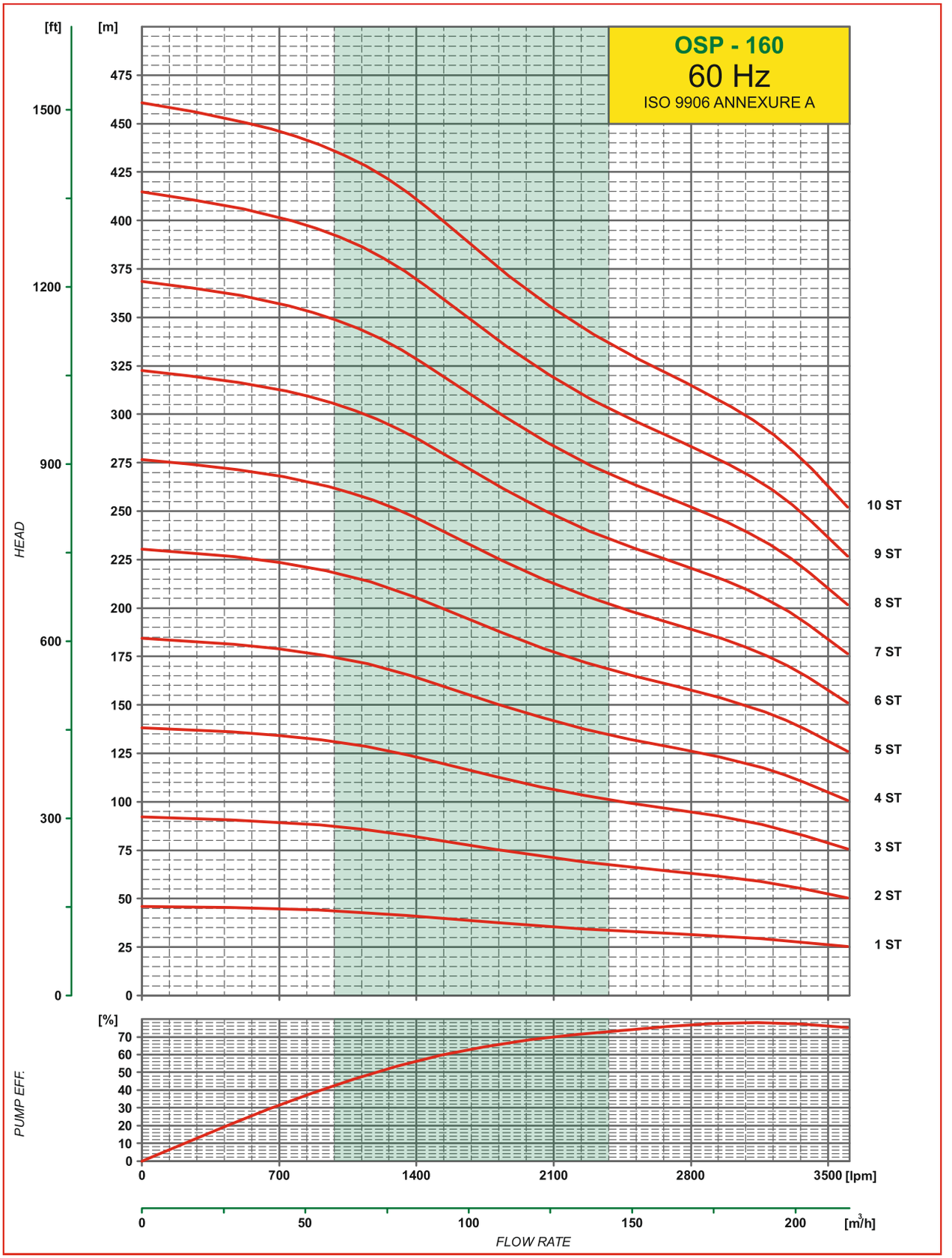


E* : MAX.DIA OF PUMP WITH ONE MOTOR CABLE

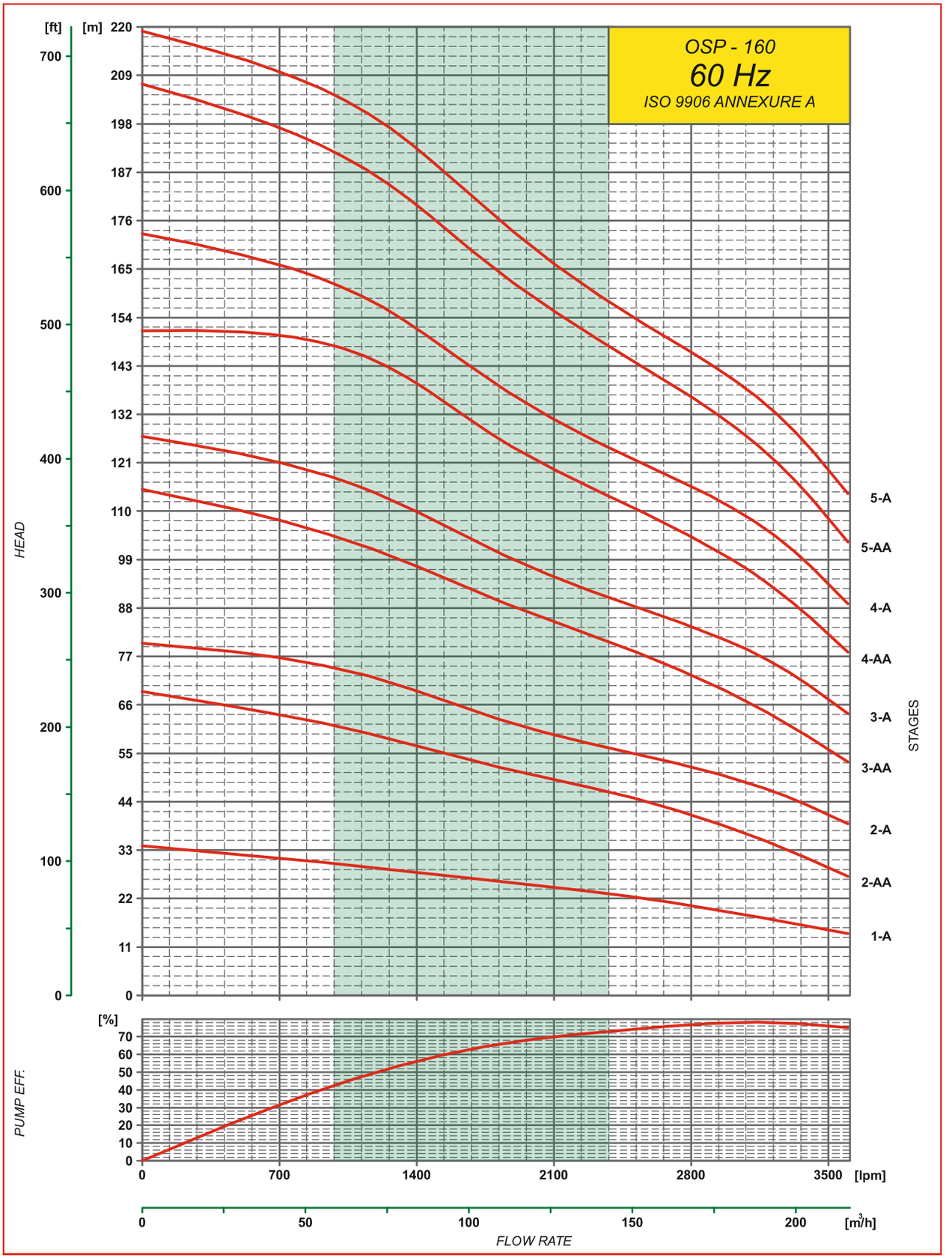
E** : MAX.DIA OF PUMP WITH TWO MOTOR CABLE

FROM : 1A STAGE TO 2 STAGE ALSO AVAILABLE WITH 8" MOTOR JOINING (8X10)

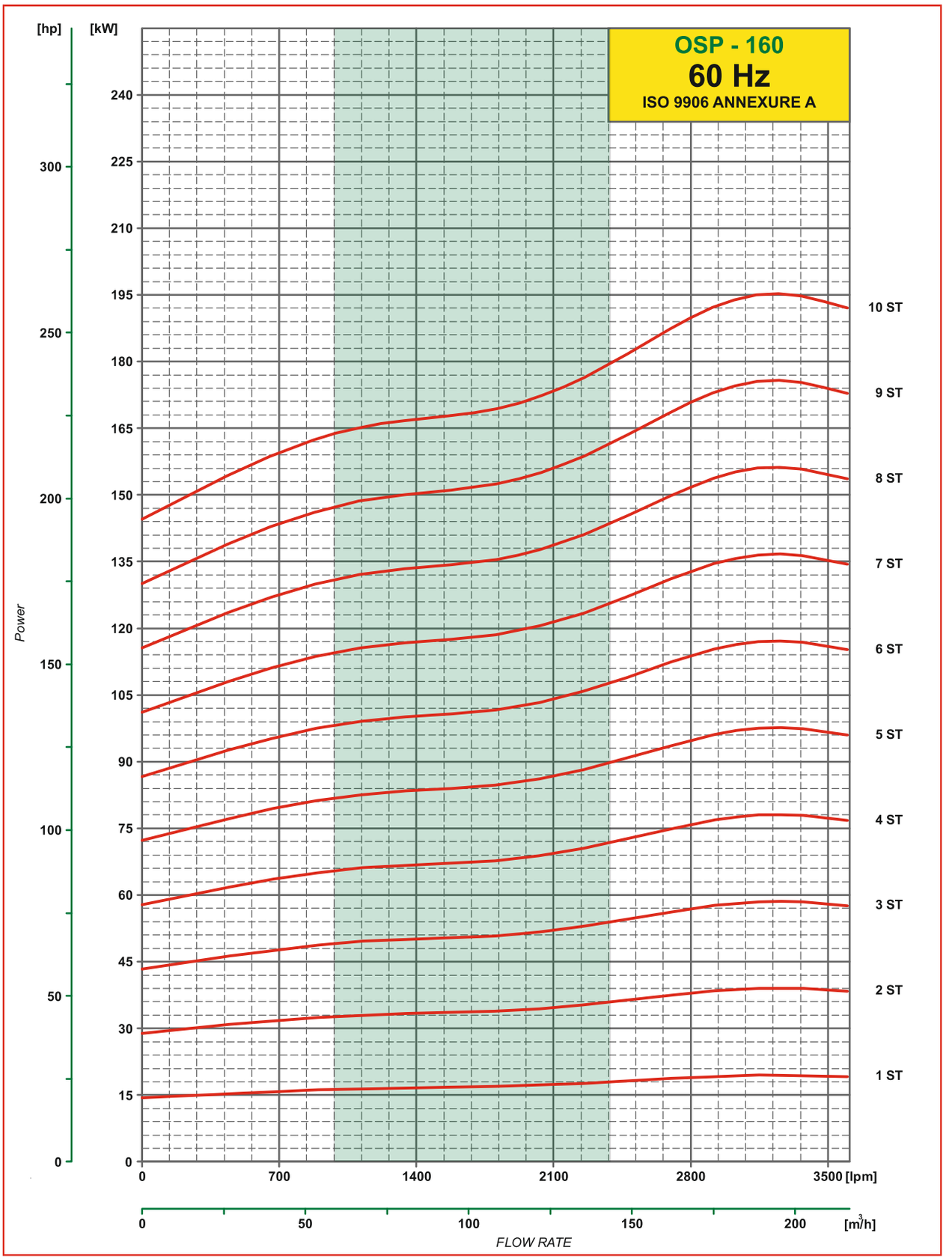
Performance Curves



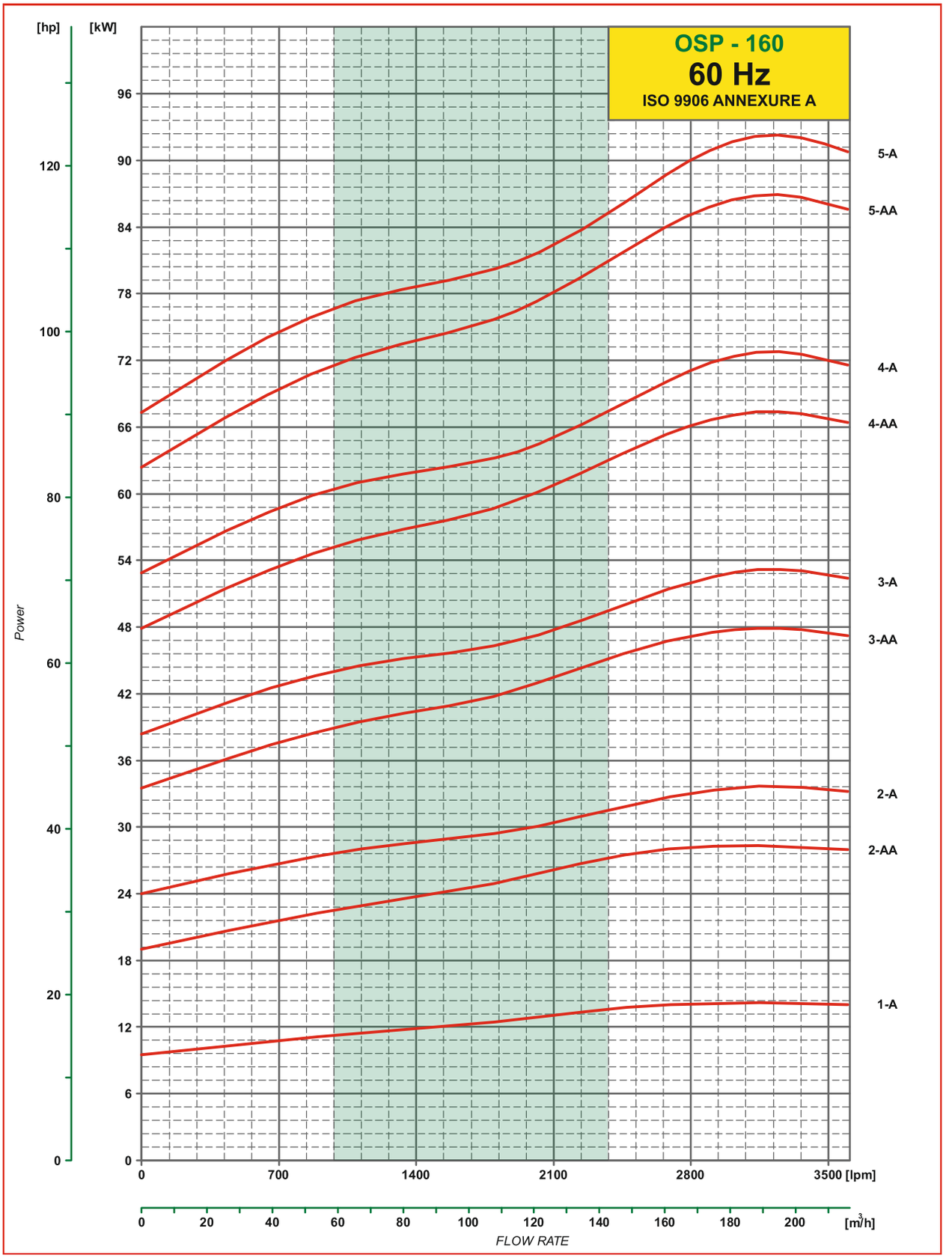
Performance Curves



Power Curves



Power Curves



OSWAL STAR

12"

Submersible Pump

0SP-215

Performance Table

Submersible Pump — 60 Hz — OSP - 215

MODEL 60 Hz	K.W.	H.P.	St.	Motor Joining	Out let Size in inches	Discharge							
						M^3/hr.	0	108	173	216	259	288	331
						USGPM	**0**	475.4	761.5	950.8	1140.1	1267.8	1457.1
						GPM	**0**	**396.0**	**633.6**	**792.0**	**950.4**	**1056.0**	**1214.4**
						LPM	0	1800	2880	3600	**4320**	4800	5520
OSP- 215/1-A(P4)60(6X12)	22	30	1-A	V-6	6"	H ↓	39	34	29	25	19	14	6
OSP- 215/1(P4)60(6X12)	30	40	1	V-6	6"		56	51	43	40	35	32	23
OSP- 215/2-AA(P4)60(8X12)	45	60	2-AA	V-8	6"		78	69	59	50	39	29	12
OSP- 215/2-A(P4)60(8X12)	55	75	2-A	V-8	6"		95	85	72	65	54	46	29
OSP- 215/2(P4)60(8X12)	67	90	2	V-8	6"		112	102	86	79	71	63	46
OSP- 215/3-AA(P4)60(8X12)	75	100	3-AA	V-8	6"		134	120	102	89	73	60	46
OSP- 215/3-A(P4)60(8X12)	93	125	3-A	V-8	6"		151	137	115	104	89	78	52
OSP- 215/3(P4)60(8X12)	93	125	3	V-8	6"		168	153	130	119	106	95	69
OSP-215/4-AA(P4)60(10X12)	110	150	4-AA	V-10	6"		190	171	145	130	109	92	58
OSP-215/4-A(P4)60(10X12)	110	150	4-A	V-10	6"		207	187	158	144	125	109	75
OSP-215/4(P4)60(10X12)	110	150	4	V-10	6"		225	204	173	158	141	127	92
OSP-215/5-AA(P4)60(10X12)	130	175	5-AA	V-10	6"		246	222	189	168	144	124	78
OSP-215/5-A(P4)60(10X12)	130	175	5-A	V-10	6"		264	239	202	183	160	141	98
OSP-215/5(P4)60(10X12)	150	200	5	V-10	6"		281	256	216	198	176	158	115
OSP-215/6(P4)60(10X12)	185	250	6	V-10	6"		337	307	259	238	212	190	138
OSP-215/7(P4)60(10X12)	185	250	7	V-10	6"		393	358	302	277	247	222	161

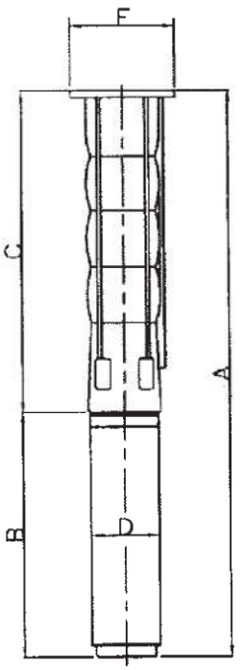
Technical Data

Submersible Pump

OSP - 215

MODEL 60 Hz	Stage	Joining Motor	Power (KW)	PUMP Weight Kg	PUMP Length C(mm)	PUMP E* (mm)	PUMP E** (mm)	Motor OD (mm)
OSP- 215/1-A(P4)60(6X12)	1-A	V-6	22	38.0	696	241	247	146
OSP- 215/1(P4)60(6X12)	1	V-6	30	38.0	696	241	247	146
OSP- 215/2-AA(P4)60(8X12)	2-AA	V-8	45	47.4	872	241	247	189
OSP- 215/2-A(P4)60(8X12)	2-A	V-8	55	47.4	872	241	247	189
OSP- 215/2(P4)60(8X12)	2	V-8	67	47.0	872	241	247	189
OSP- 215/3-AA(P4)60(8X12)	3-AA	V-8	75	56.5	1048	241	247	189
OSP- 215/3-A(P4)60(8X12)	3-A	V-8	93	56.5	1048	241	247	189
OSP- 215/3(P4)60(8X12)	3	V-8	93	56.5	1048	241	247	189
OSP-215/4-AA(P4)60(10X12)	4-AA	V-10	110					236
OSP-215/4-A(P4)60(10X12)	4-A	V-10	110					236
OSP-215/4(P4)60(10X12)	4	V-10	110					236
OSP-215/5-AA(P4)60(10X12)	5-AA	V-10	130					236
OSP-215/5-A(P4)60(10X12)	5-A	V-10	130					236
OSP-215/5(P4)60(10X12)	5	V-10	150					236
OSP-215/6(P4)60(10X12)	6	V-10	185					236
OSP-215/7(P4)60(10X12)	7	V-10	185					236

FIGURE



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

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

NOTES

ENERGY IS LIFE
B E E
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CM/L-9333880

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OSWAL STAR

NOTES

Quality, Reliability, Excellence

OSWAL PUMPS

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ISO 9001:2015 CERTIFICATION

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GLOBAL PRESENCE

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