SHAKTI

PUMPING LIFE

SUBMERSIBLE PUMPS & MOTORS

QF SERIES (50 Hz)

SHAKTI
PUMPING LIFE

CONTENT PAGE NO.

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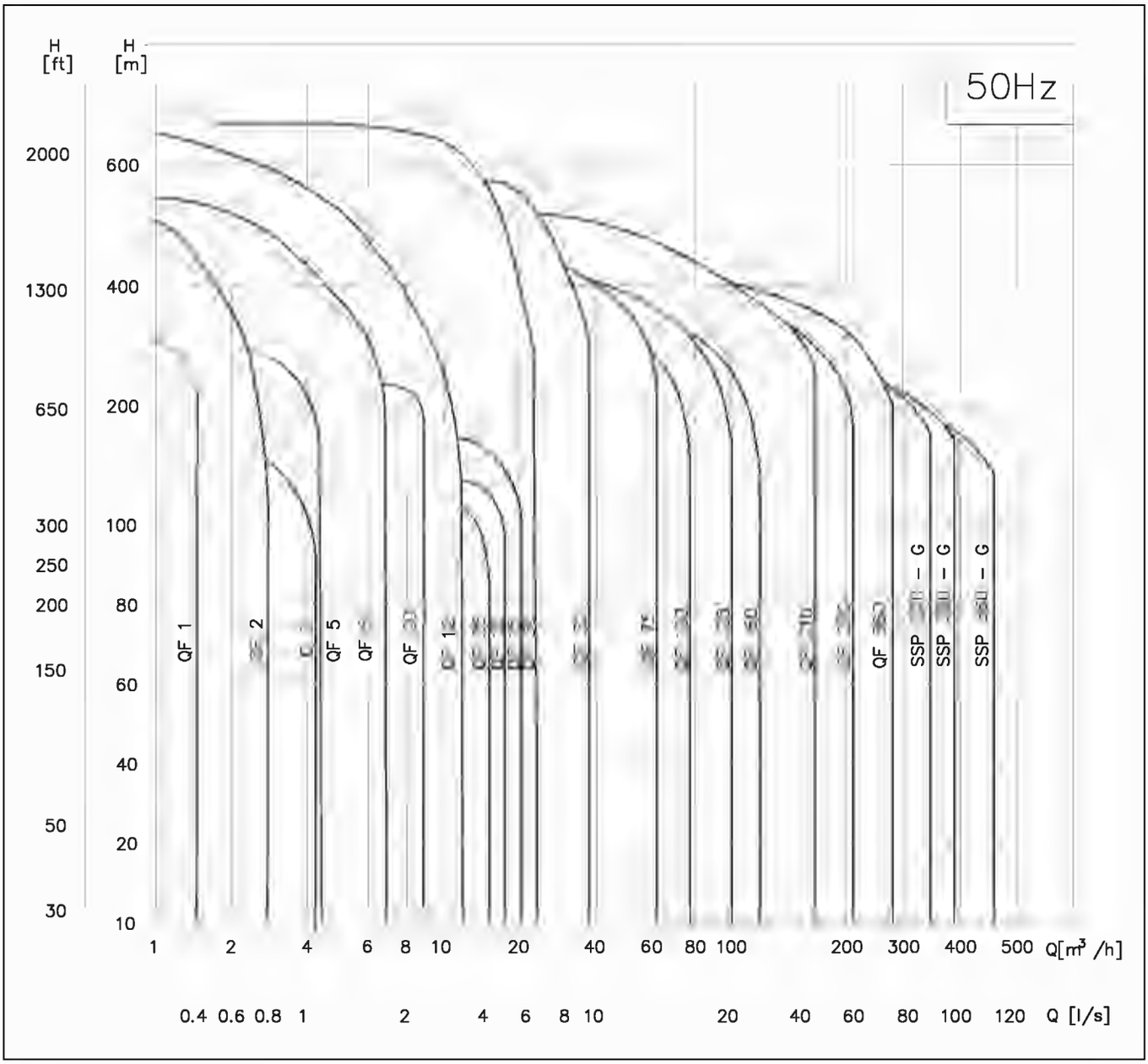
PERFORMANCE RANGE



PUMP RANGE

Type	Q3	QF1	QF2	QF5	QF6	QF12	QF20	QF25	QF10	QF15	QF30	QF50	QF75	QF100	QF125	QF150	QF160	QF210	QF270	QF360
Steel: AISI SS 304	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+
Connection : Rp (Inches)																				
BSP Thread	$1^{1/4}$	$1^{1/4}$	$1^{1/4}$	$1^{1/4}$	$1^{1/2}$	2	2	2	2	2	$2^{1/2}$	3	3 4	3 4	5	4	5	6	6	6
NPT Thread	$1^{1/4}$	$1^{1/4}$	$1^{1/4}$	$1^{1/4}$	$1^{1/2}$	2	2	2	2	2	3	3	3 4	3 4	5	4	5	6	6	6
Flange Connection															5"		5"	6"	6"	6"

MOTOR RANGE

MOTOR OUTPUT [KW]	0.37	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5	9.2	11	13	15	18.5	22	26	30	37	45	55	75	93	110	132	147	170	190	220
Single Phase	+	+	+	+	+	+	+	+																					
Three Phase	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Rewindable Motor	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Steel : AISI 304	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								
Steel : AISI 304 & Cast Iron	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Direct-on-Line starting is recommended up to 7.5 kW.
Soft starter or auto transformer is recommended above 7.5 kW.

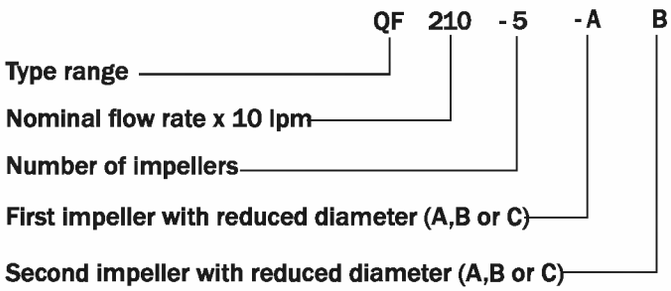
APPLICATIONS

The pumps are suitable for the following applications :

- Raw water supply
- Irrigation systems
- Groundwater lowering
- Pressure boosting
- Industrial applications

TYPE KEY

Example



PUMPED LIQUIDS

Clean, thin, non-aggressive liquids without solid particles or fibres.

OPERATING CONDITIONS

Flow rate, Q : 0.1 - 280 m^3/h.
Head, H: Maximum 670m.

Maximum Liquid Temperature:

Motor	Installation		
	Flow velocity-past motor	Vertical	Horizontal
Shakti 3",4",6" & 8"	0.15 m/s	40°C	40°C

Operating pressure: Maximum 0.67m (67 bar)

CURVE CONDITIONS

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

GENERAL

- Curve tolerance according to ISO 9906, Annex A.
- The performance curves show pump performance at actual speed cf. standard motor range.
  The speed of the motors is approximately :
  3" motors : n=2850 min^{-1}
  4" motors : n=2870 min^{-1}
  6" motors : n=2870 min^{-1}
  8" to 12" motors : n=2900 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 of water, motors with correspondingly higher outputs must be used.
- The bold curves indicate the recommended performance range.
- The performance curves are inclusive of possible losses such as non-return valve loss.

Q-3, QF1, QF2, QF5, QF6, QF12, QF20, QF25 CURVE

- **Q/H :** The curves are inclusive of valve and inlet losses at the actual speed.
- **Power Curve :** BPkW/Stage shows pump power input per stage.
- **Efficiency Curve :** Efficiency shows pump stage efficiency.

QF10, QF15, QF30, QF50, QF75, QF100, QF125, QF160, QF210, QF270, QF360 CURVE

- **Q/H :** The curves are inclusive of valve and inlet 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.
- **NPSH** The curve is inclusive of suction case and shows required inlet pressure.
- **Power Curve:** It shows pump power input at the actual speed for each individual pump size.
- **Efficiency Curve :** Efficiency shows pump stage efficiency.

FEATURES AND BENEFITS

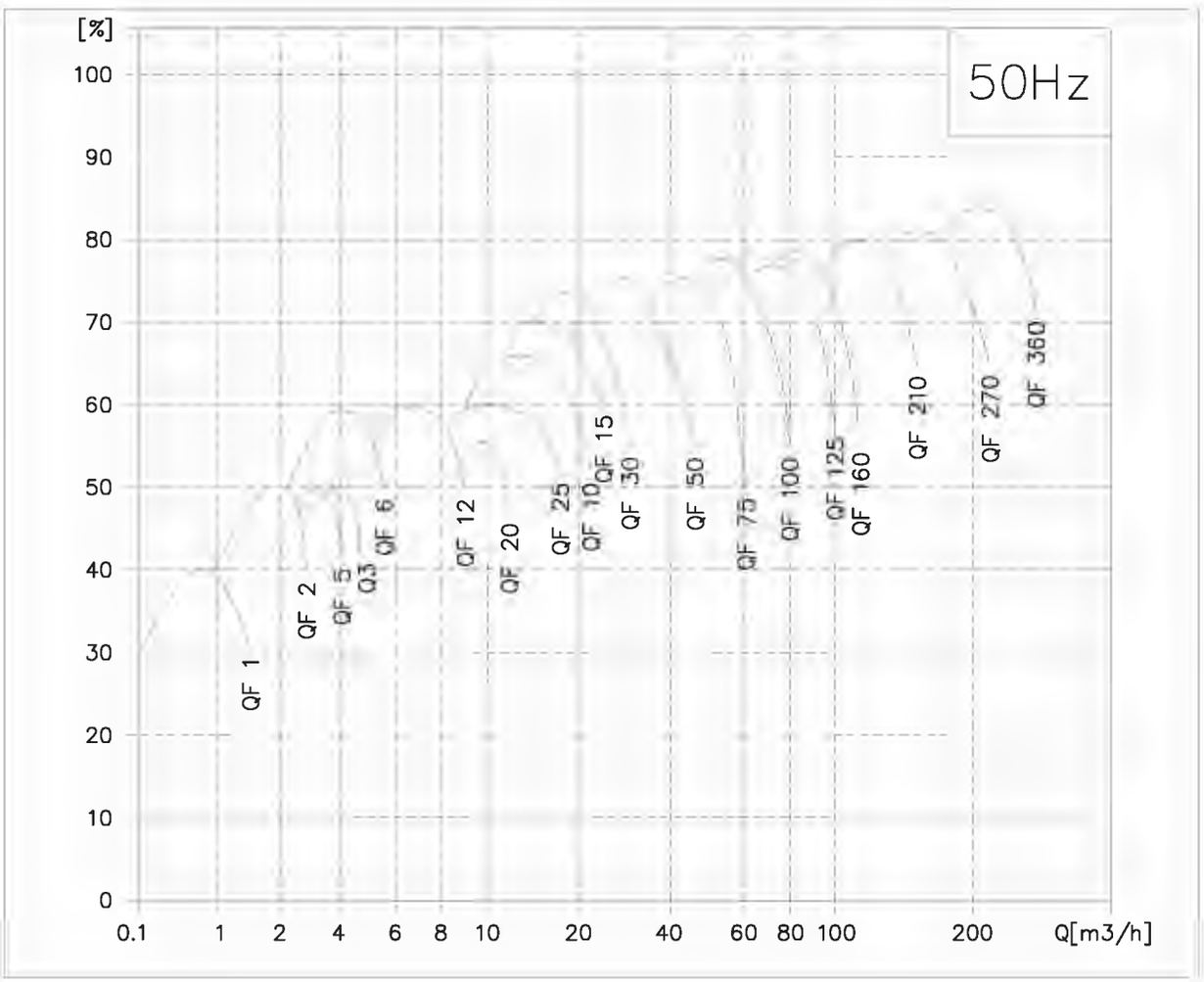
A WIDE PUMP RANGE
We offers submersible pumps with energy efficient duty points ranging from 0.1 to 335 m^3/h. The pump range consists of many pump sizes and each pump size is available with an optional number of stages to match any duty point.

HIGH PUMPS EFFICIENCY
Often pump efficiency is a neglected factor compared to the price however, the observant user will notice that price variations are without importance to water supply economics compared to the importance of pump and motor efficiencies.

EXAMPLE:
When pumping 125 m^3/h with a head of 200m for a period of 10 years $ 60,000 will be saved if a pumps and motors having a 10% higher efficiency is chosen and the price is $ 0.10 per kWh.

APPLICATIONS
We offers a complete range of pumps and motors which as a standard are made completely of stainless steel AISI - 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 COSTS
Stainless steel means 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.

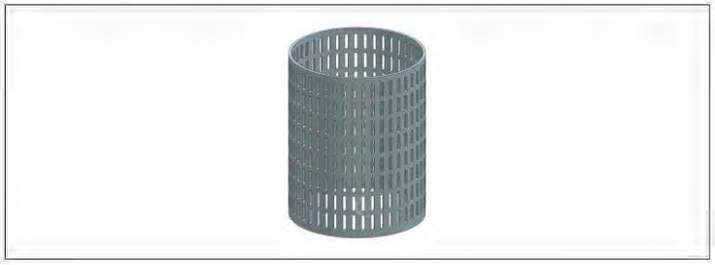


BEARINGS WITH SAND CHANNELS

All bearings are water- lubricated and have a square shape, enabling sand particles, if any, to leave the pump together with the pumped liquid.

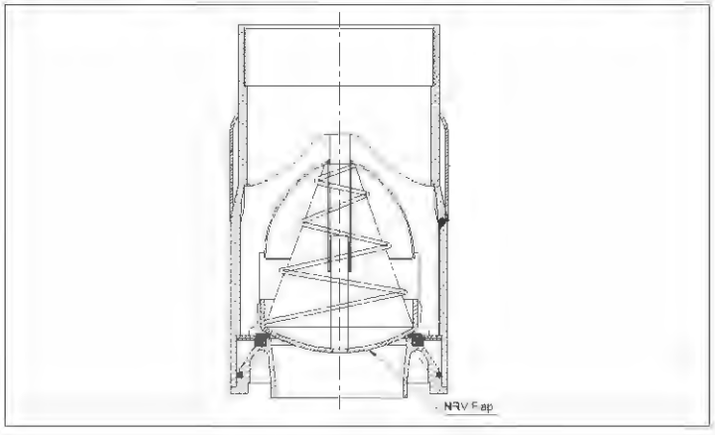
INLET STRAINER

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



NON - RETURN VALVE

All pumps are equipped with a reliable 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 a 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.



PRIMING SCREW

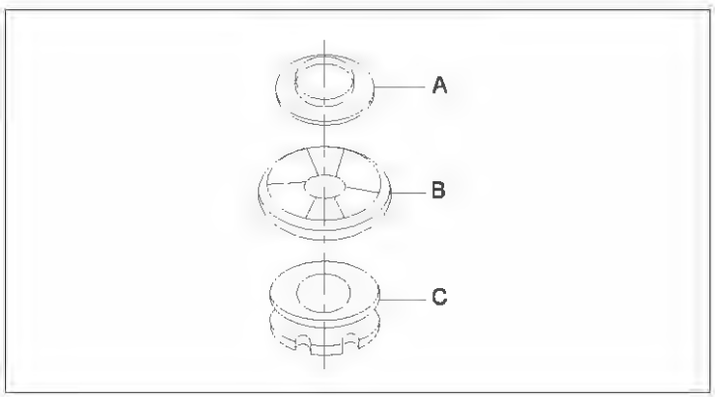
All QF and QF 30 pumps are fitted with a priming screw. Consequently, dry running is prevented because the priming screw will make sure that pump bearing are always lubricated. Due to the semi-axial impellers of large QF pumps (except for QF 30) this priming is automatically provided. However, it applies to all pump types that if the water table is lowered to a level below the pump inlet neither pump nor motor will be protected against dry running.

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 : QF 125

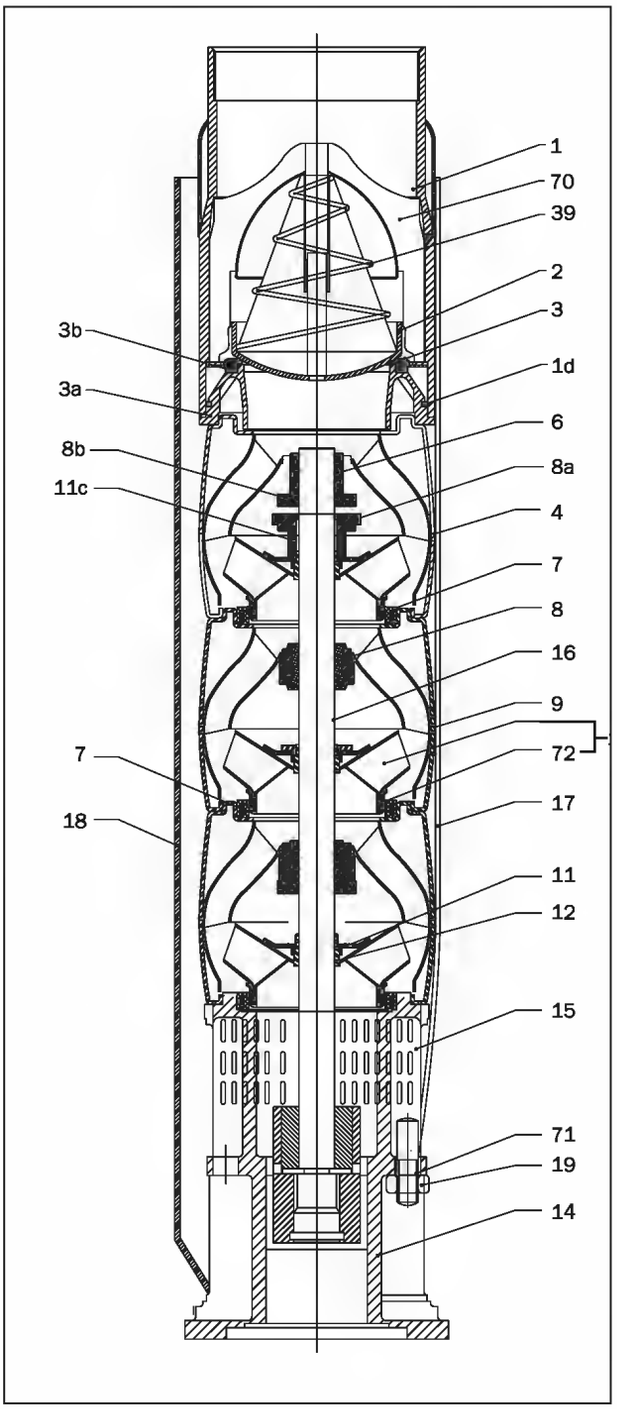
The stationary part of the stop ring (A) is secured in the top bowl (Upper intermediate chamber). The rotating part (B) is fitted above the collet [split cone (C)].



MATERIAL SPECIFICATION

POS.	DESCRIPTION	MATERIAL	STANDARD	N-VERSION
1	VALVE CASING	STAINLESS STEEL	304	316
1d	O-RING	NBR		
2	VALVE CAP	STAINLESS STEEL	304	316
3	VALVE SEAT	STAINLESS STEEL	304	316
3a	LOWER VALVE SEAT RETAINER	STAINLESS STEEL	304	316
3b	UPPER VALVE SEAT RETAINER	STAINLESS STEEL	304	316
4	TOP CHAMBER CUP	STAINLESS STEEL	304	316
6	UPPER BEARING	STAINLESS STEEL	304	316
7	NECKRING	NBR/PPS		
8	BEARING	NBR		
8a	WASHER FOR STOP RING	CARBON/GRAPHITE HY22 IN PTFE MASS		
8b	STOP RING	STAINLESS STEEL	304	316
9	CHAMBER	STAINLESS STEEL	304	316
11	SPLIT CONE NUT	STAINLESS STEEL	304	316
11c	NUT FOR STOP RING	STAINLESS STEEL	304	316
12	SPLIT CONE	STAINLESS STEEL	304	316
13	IMPELLER	STAINLESS STEEL	304	316
14	SUCTION INTERCONNECTOR	STAINLESS STEEL	304	316
15	STRAINER	STAINLESS STEEL	304	316
16	SHAFT COMPLETE	STAINLESS STEEL	304	316
17	STRAP	STAINLESS STEEL	304	316
18	CABLE GAURD	STAINLESS STEEL	304	316
19	NUT FOR STRAP	STAINLESS STEEL	304	316
39	SPRING FOR VALVE CUP	STAINLESS STEEL	304	316
70	VALVE GUIDE	STAINLESS STEEL	304	316
71	WASHER	STAINLESS STEEL	304	316
72	WEAR RING	STAINLESS STEEL	304	316

EXAMPLE : QF - 125



FEATURES AND BENEFITS

A COMPLETE MOTOR RANGE

We offer a complete submersible motor range in diff

- 3"motors, single phase up to 1.5 KW (rewindeble)
- 4"motors, single-phase up to 4 kW. (Encapsulated & Rewindable)
- 4"motors, three-phase up to 7.5 kW. (Encapsulated & Rewindable)
- 6"motors, three-phase from 2.2 kW to 37 kW. (Rewindable)
- 8"motors, three-phase from 11 kW to 220 kW. (Rewindable)

HIGH MOTOR EFFICIENCY

Within the area of high motor efficiency Star is a market leader. This is due to newly developed motor concept which is introduced with the Premium 100, Premium 101 and Premium 150.

SHAFT SEAL

The choice of material is ceramic/ tungsten carbide providing optimum sealing, optimum wear resistance and long life.

The spring loaded shaft seal is designed with a large surface and a sand shield. The result is a minimum exchange of pumped and motor liquids and no penetration of particles.

PROTECTION AGAINST UPTHRUST

In case of a very small counter pressure in connection with start-up there is a risk that the entire pump body may rise. This is called upthrust. Upthrust may damage both pump and motor. Therefore, both pumps and motors are protected against upthrust as standard, preventing upthrust from occurring in the critical start-up phase. The protection consists of either a built-in stop ring or hydraulic balancing.

BUILT -IN COOLING CHAMBERS

In all submersible motors an efficient cooling is ensured by cooling chambers at the top and at the bottom of the motor, and by an internal circulation of motor liquid. As long as the required flow velocity cooling of the motor will be efficient.

REWINDABLE

REWINDABLE

FEATURES AND BENEFITS

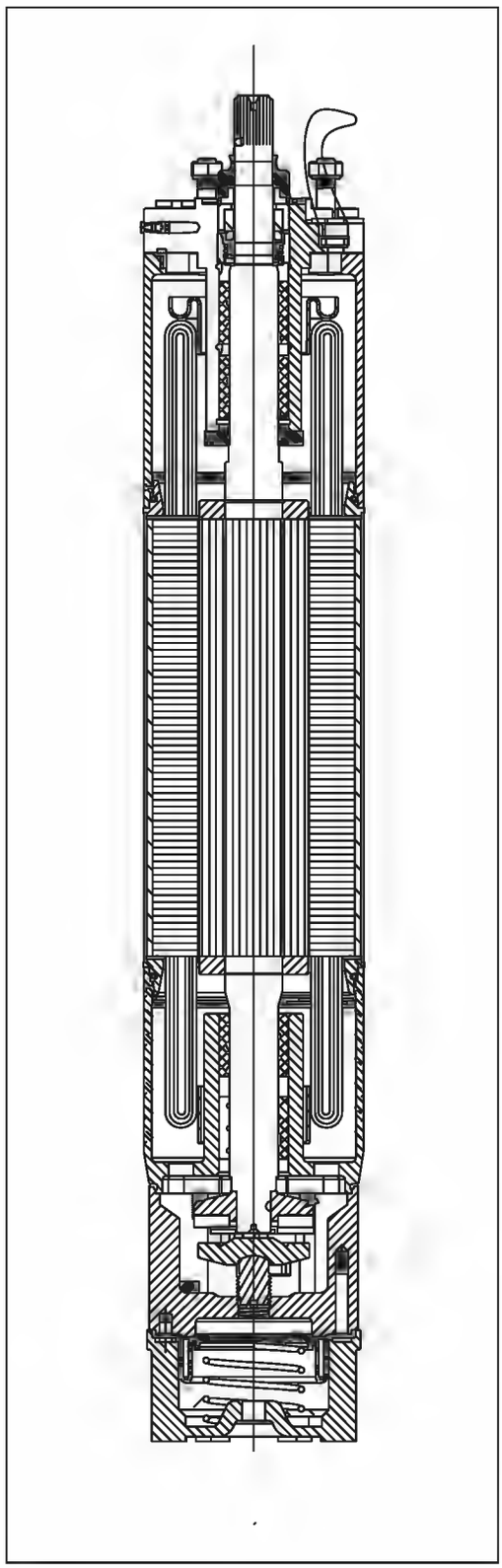
OVER TEMPERATURE PROTECTION

For Shakti submersible motors accessories Pt100 for protection against over temperature is available. When the temperature becomes too high, the protection device will cut-out and damage to the pump and motor be avoided.

PROTECTION AGAINST UPTHRUST

In case of a very small counter pressure in connection with start-up there is a risk that the entire pump body may rise. This is caller upthrust. Upthrust may damage both pump and motor. Therefore both Shakti pumps and motors are protected against upthrust as standard, preventing upthrust form occurring in the critical startup phase. The protection consists of a built-in upthrust ring.

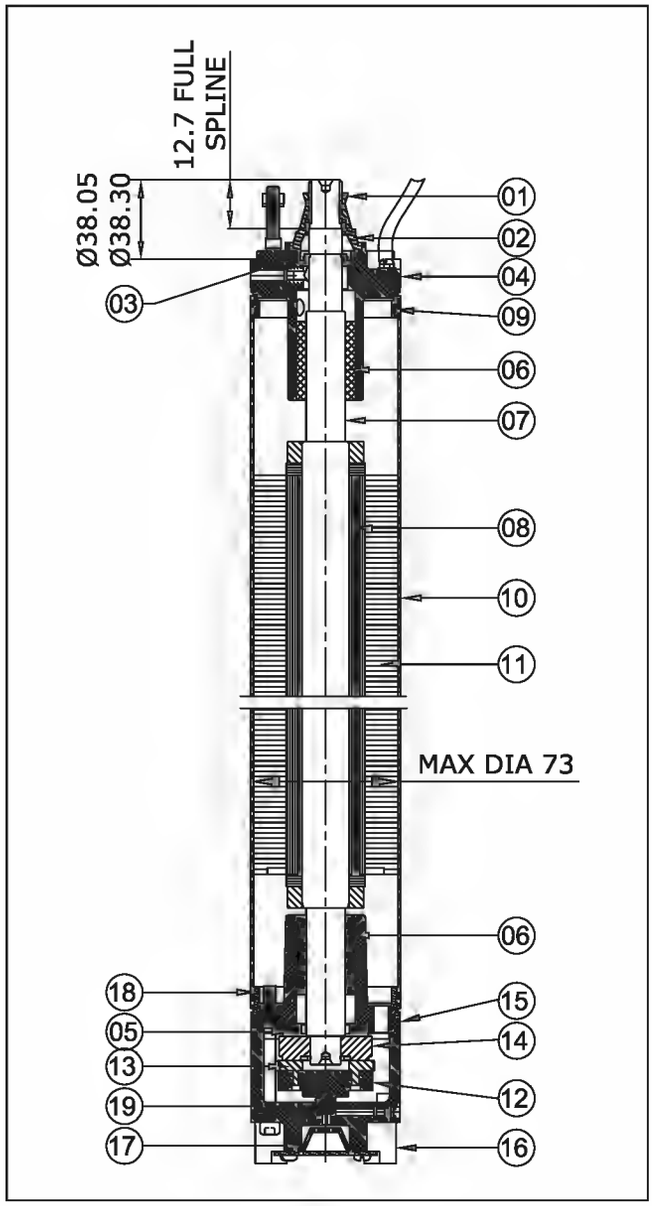
EXAMPLE : 6" MTSF



MATERIAL SPECIFICATION 3 INCH MOTOR

SR.NO.	PART	MATERIAL
1	SAND SLINGER	NBR
2	SEAL COVER	PPS
3	OIL SEAL	NBR + SS AISI 304
4	TOP END BELL	CI FG-260
5	UP THRUST WASHER	PP
6	BUSH	CARBON WITH RESIGN IMPREGATED
7	ROTOR SHAFT	SS AISI 420
8	ROTOR SUB ASSLY	N/A
9	TOP FLANGE	MS
10	STATOR PIPE	SS AISI-304
11	STATOR SUB ASSLY	N/A
12	THRUST BEARING PLATE	CI FG-260
13	THRUST PAD	SS AISI-420
14	REVOLVING PLATE ASSLY	NA
15	BOTTOM END BELL	CI FG-260
16	MOTOR BASE	CI FG-260
17	DIAPHRAGM	NBR
18	BOTTOM FLANGE	MS
19	ADJUSTING STUD	SS AISI-410

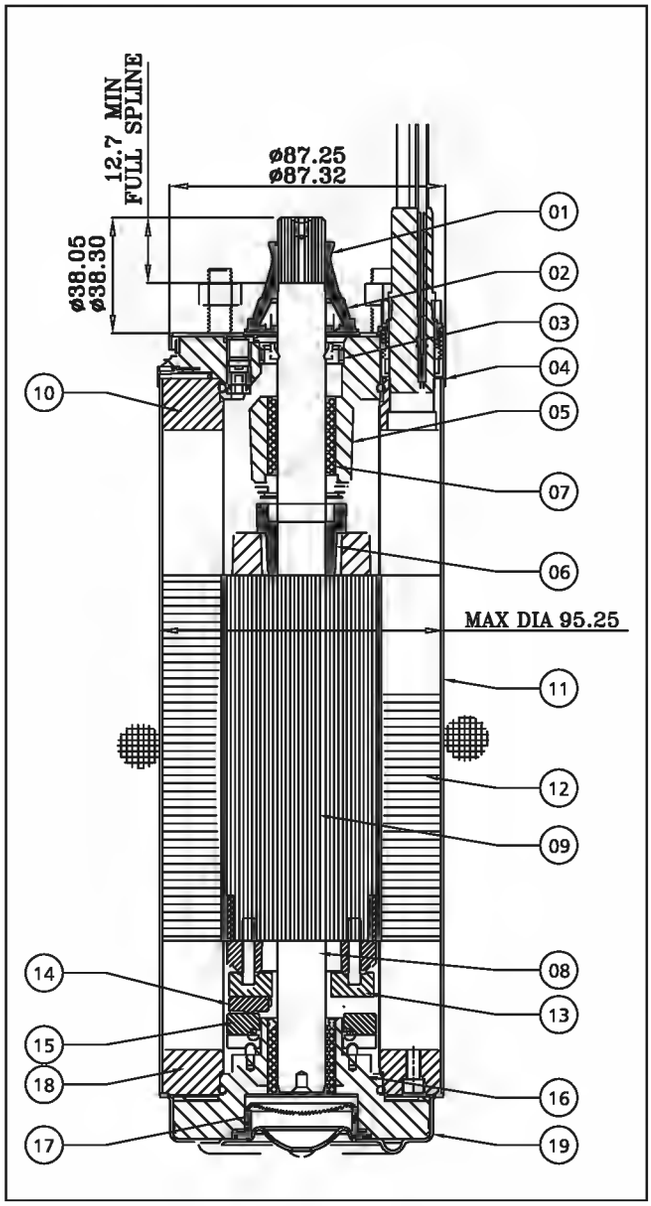
SECTIONAL VIEW OF 3 INCH MOTOR



MATERIAL SPECIFICATION 4" PREMIUM-100

SR.NO.	PART	MATERIAL
1	SAND SLINGER	NBR
2	SEAL COVER	PPS
3	OIL SEAL	EPDM + SS AISI 304
4	TOP END BELL COVER	SS AISI-304
5	TOP END BELL	CI FG-260
6	SHAFT BUSH	NYLON 30% GLASS FILLED
7	BUSH	CARBON WITH RESIGN IMPREGATED
8	ROTOR SHAFT	SS (STAINLESS STEEL SPECIAL GRADE)
9	ROTOR SUB ASSLY	N/A
10	TOP FLANGE	MS
11	STATOR PIPE	SS AISI-304
12	STATOR SUB ASSLY	N/A
13	THRUST DISC	ANTIMONY CARBON
14	THRUST PAD	SS AISI-420
15	LEVELING DISC	MS+ HARD CHROM
16	BOTTOM END BELL	CI FG-260
17	DIAPHRAGM	EPDM
18	BOTTOM FLANGE	MS
19	BOTTOM END BELL COVER	SS AISI-304

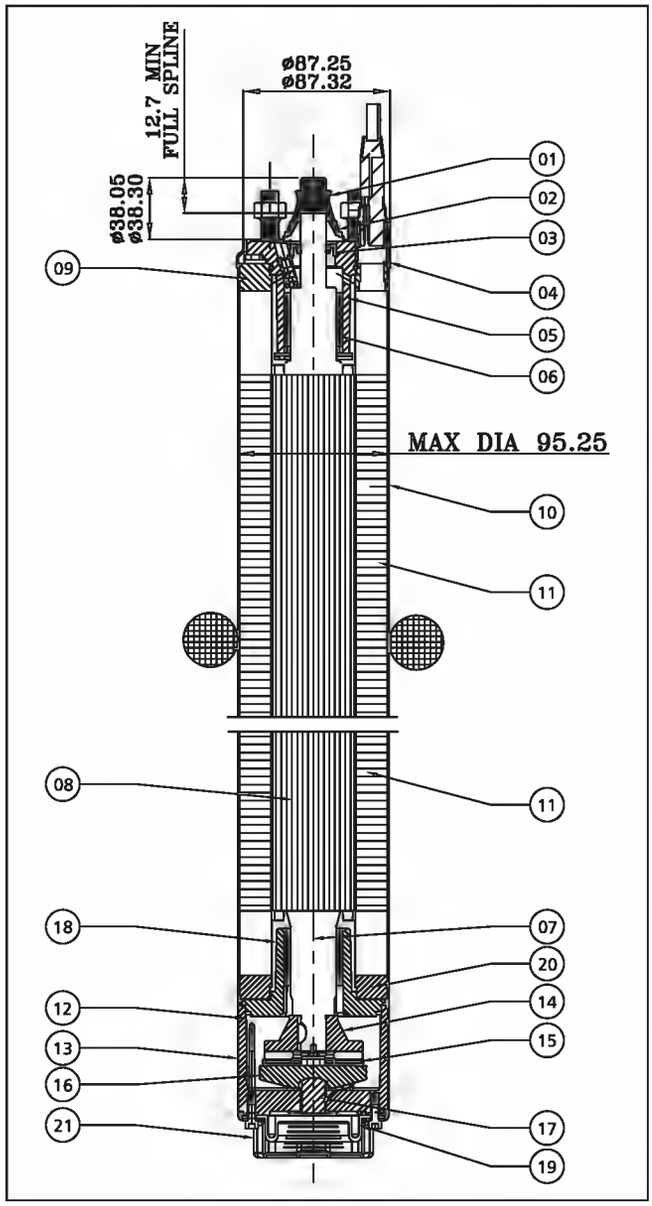
SECTIONAL VIEW OF 4" PREMIUM 100



MATERIAL SPECIFICATION 4" PREMIUM-101

SR.NO.	PART	MATERIAL
1	SAND SLINGER	NBR
2	SEAL COVER	PPS
3	OIL SEAL	EPDM + SS AISI 304
4	TOP END BELL COVER	SS AISI-304
5	TOP END BELL	CI FG-260
6	BUSH	CARBON WITH RESIGN IMPREGATED
7	ROTOR SHAFT	SS (STAINLESS STEEL SPECIAL GRADE)
8	ROTOR SUB ASSLY	N/A
9	TOP FLANGE	MS
10	STATOR PIPE	SS AISI-304
11	STATOR SUB ASSLY	N/A
12	THRUST HOUSING	CI FG-260
13	THRUST PIPE	SS AISI-304
14	THRUST DISC	CI FG-260
15	CARBON PLATE	REGIN IMPREGNATED
16	LEVELING DISC	SS AISI 420
17	ADJUSTING STUD	SS AISI-410
18	BOTTOM END BELL	CI FG-260
19	DIAPHRAGM	EPDM
20	BOTTOM FLANGE	MS
21	DIAPHRAGM COVER	SS AISI-304

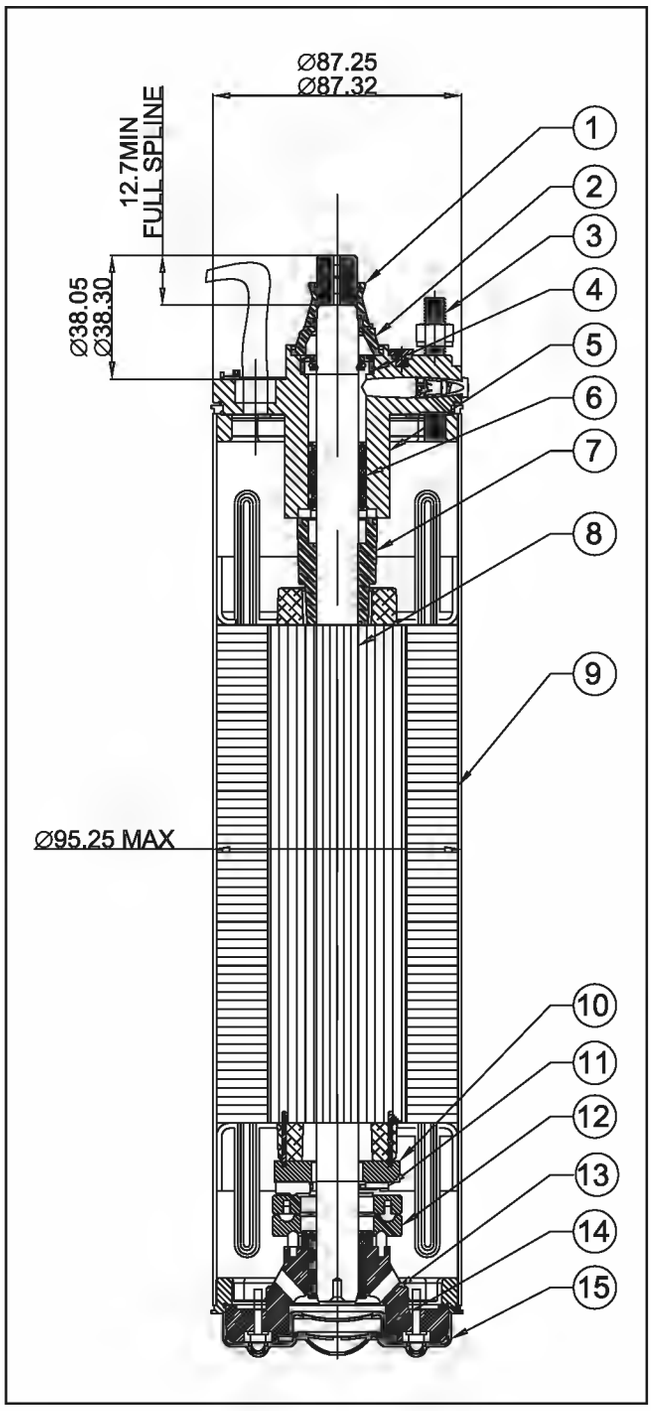
SECTIONAL VIEW OF 4" PREMIUM 101



MATERIAL SPECIFICATION 4" MCIP-100

SR.NO.	COMPONENT	MATERIAL
1	SEND SLINGER	NBR
2	SEAL COVER	PPS
3	STUD	SS AISI-304
4	OIL SEAL	EPDM+ SS AISI 304
5	UPPER HOUSING	CI FG-260
6	BUSH	CARBON WITH RESIN IMPREGNATED
7	SHAFT BUSH	NYLON 30% GLASS FILLED
8	ROTOR SUB ASSY	N/A
9	STATOR SUB ASSY	N/A
10	THRUST DISK	ANTIMONY CARBON
11	THRUST PAD	SS AISI-420
12	LEVELING DISK	HIGH GRADE
13	BOTTOM END BELL	CI FG-260
14	DIAPHRAGM	EPDM
15	END BELL COVER	SS AISI-304

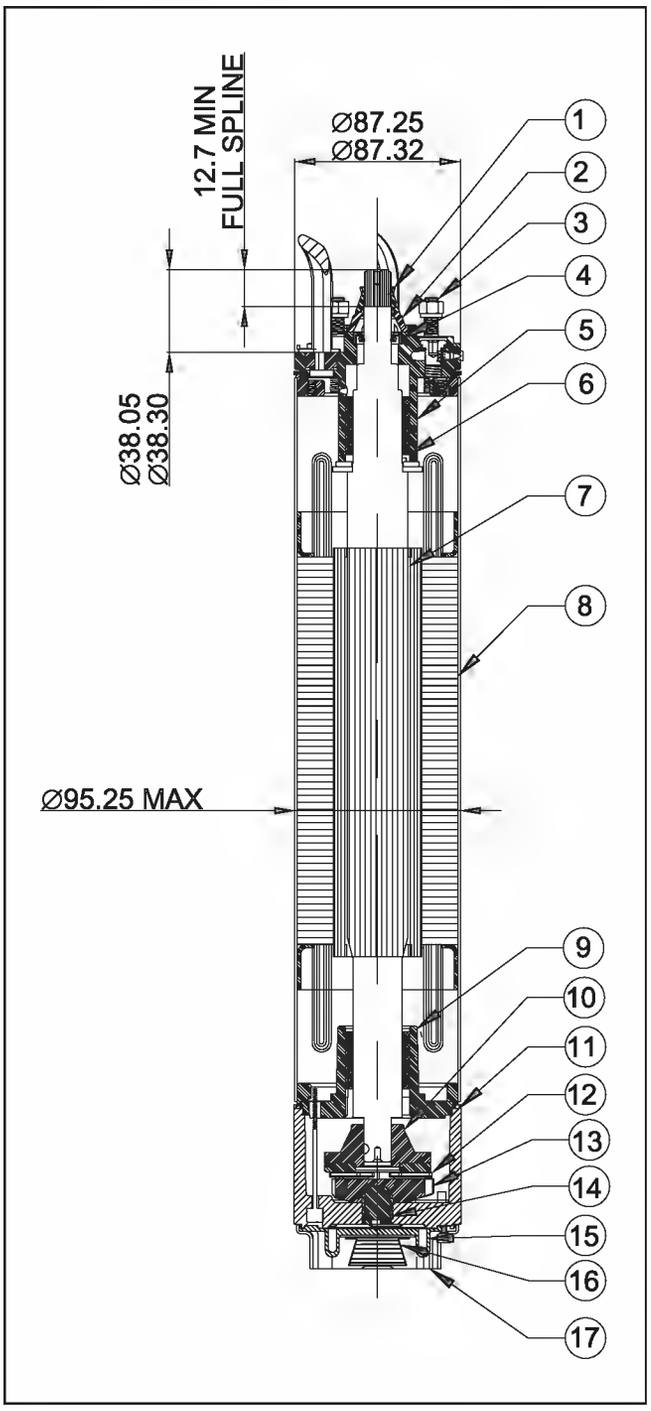
SECTIONAL VIEW OF 4" MCIP 100



MATERIAL SPECIFICATION 4" MCIP-101

SR.NO.	COMPONENT	MATERIAL
1	SEND SLINGER	NBR
2	SEAL COVER	PPS
3	STUD	SS AISI-304
4	OIL SEAL	EPDM+ SS AISI 304
5	UPPER HOUSING	CI FG-260
6	BUSH	CARBON WITH RESIN IMPREGNATED
7	ROTOR SUB ASSY	N/A
8	STATOR SUB ASSY	N/A
9	BOTTOM END BELL	CI FG-260
10	THRUST DISK	ANTIMONY CARBON
11	THRUST HOUSING	CI FG-260
12	THRUST SEGMENT	SS AISI-420
13	LEVELING DISK	SS AISI-304
14	ADJUSTING STUD	SS AISI-410
15	DIAPHRAGM	EPDM
16	DIAPHRAGM SPRING	SPRING STEEL
17	DIAPHRAGM COVER	STAINLESS STEEL

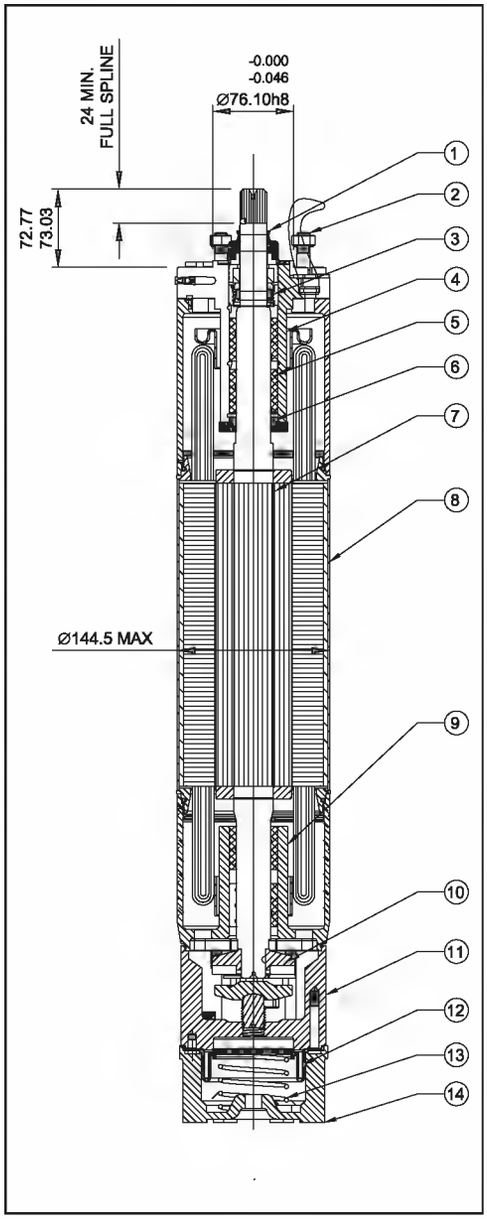
SECTIONAL VIEW OF 4" MCIP 101



MATERIAL SPECIFICATION 6" MTSF

S No.	COMPONENT	MATERIAL		
		CIFG-260	SS AISI 304	SS AISI 316
1	SAND SLINGER	NBR	NBR	NBR
2	STUD	CI FG-260	SS AISI 304	SS AISI 316
3	MECH SEAL	SiC/SIC	SiC/SIC	SiC/SiC
4	END BELL UPPER	CI FG-260	SS AISI 304	SS AISI 316
5	BUSH	RESIN IMPREGANTED CARBON	RESIN IMPREGANTED CARBON	RESIN IMPREGANTED CARBON
6	UP THRUST	NYLON30% GLASS FILLED	NYLON30% GLASS FILLED	NYLON30% GLASS FILLED
7	ROTOR SUB ASSY	N/A	N/A	N/A
8	STATOR SUB ASSY	N/A	N/A	N/A
9	END BELL LOWER	CI FG-260	SS AISI 304	SS AISI 316
10	REVOLVING PLATE ASSY	N/A	N/A	N/A
11	THRUST HOUSING BEARING	CI FG-260	SS AISI 304	SS AISI 316
12	DIAPHRAGM	EPDM	EPDM	EPDM
13	DIAPHRAGM SPRING	SPRING STEEL	SPRING STEEL	SPRING STEEL
14	MOTOR BASE	CI FG-260	SS AISI 304	SS AISI 316

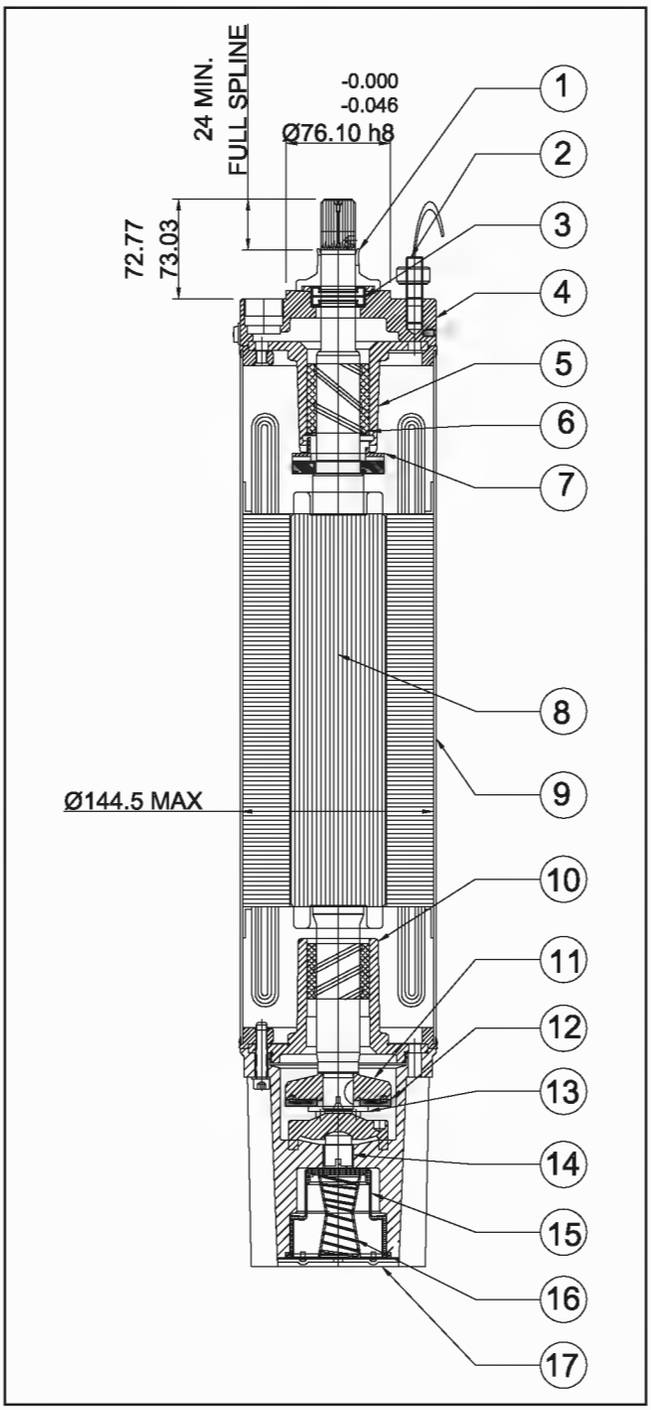
SECTIONAL VIEW OF 6" MTSF



MATERIAL SPECIFICATION 6" SML

SR.No.	COMPONENT	MATERIAL
1	SAND SLINGER	NBR
2	STUD	SS AISI 304
3	OIL SEAL	EPDM + SS 304
4	UPPER HOUSING	CI FG-260
5	END BELL UPPER	CI FG-260
6	BUSH	RESIN IMPREGNATED CARBON
7	UP THRUST BEARING	NYLON 30% GLASS FILLED
8	ROTOR SUB ASSY	N/A
9	STATOR SUB ASSY	N/A
10	END BELL LOWER	CI FG-260
11	REVOLVING PLATE ASSY	N/A
12	THRUST SEGMENT	SS AISI 304
13	THRUSTING BEARING PLATE	CI FG-260
14	ADJUSTING STUD	DUPLEX
15	DIAPHRAGM	EPDM
16	DIAPHRAGM SPRING	SPRING STEEL
17	MOTOR BASE	CI FG-260

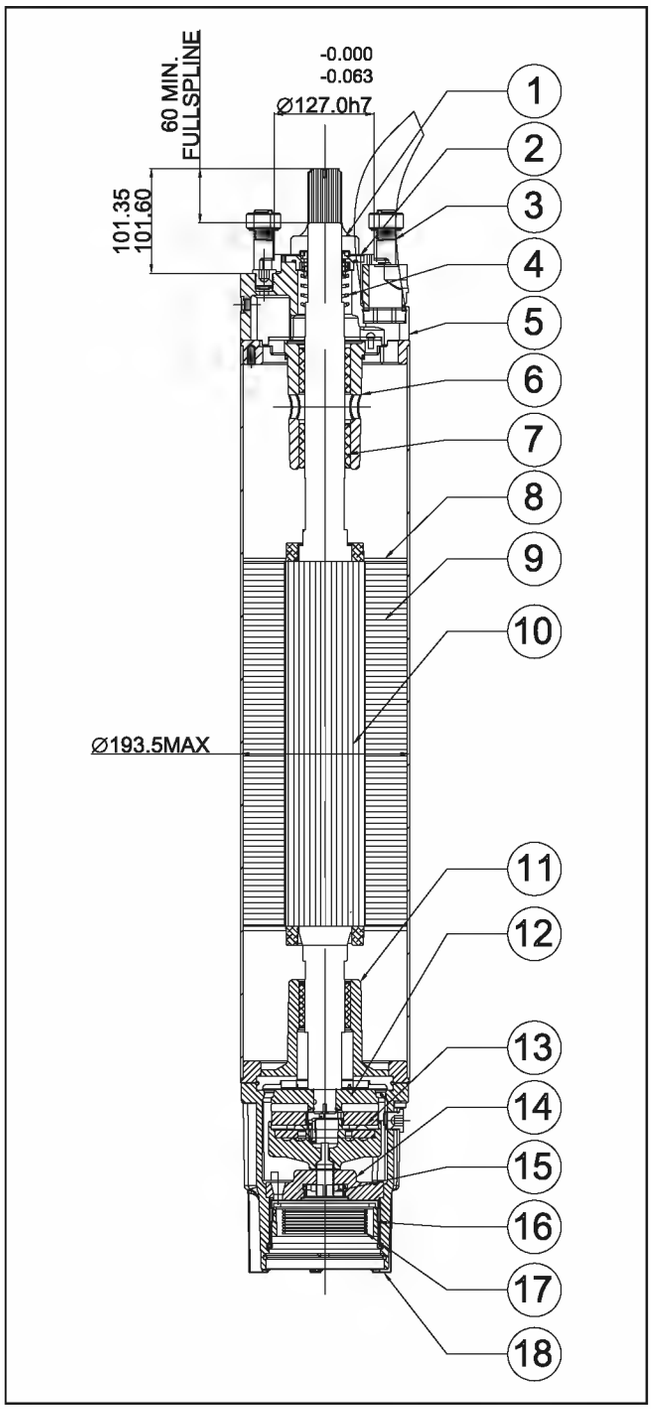
SECTIONAL VIEW OF 6" SML



MATERIAL SPECIFICATION 8" MTSF

SR.NO.	COMPONENT	MATERIAL
1	SAND SLINGER	NBR
2	DUST COVER	CI FG-260
3	STUD	SS AISI 304
4	MECH SEAL	STD
5	UPPER HOUSING	CI FG-260
6	END BELL UPPER	CI FG-260
7	BUSH	METAL IMPREGNATED ANTI-MONY
8	END LAMINATION	PPS
9	STATOR SUB ASSY	N/A
10	ROTOR SUB ASSY	N/A
11	END BELL LOWER	CI FG-260
12	REVOLVING PLATE ASSY	N/A
13	THRUST HOUSING BEARING	CI FG-260
14	THRUST BEARING SUPPORT	CI FG-260
15	ADJUSTING STUD	DUPLEX
16	DIAPHRAGM	EPDM
17	DIAPHRAGM SPRING	SPRING STEEL
18	MOTOR BASE	CI FG-260

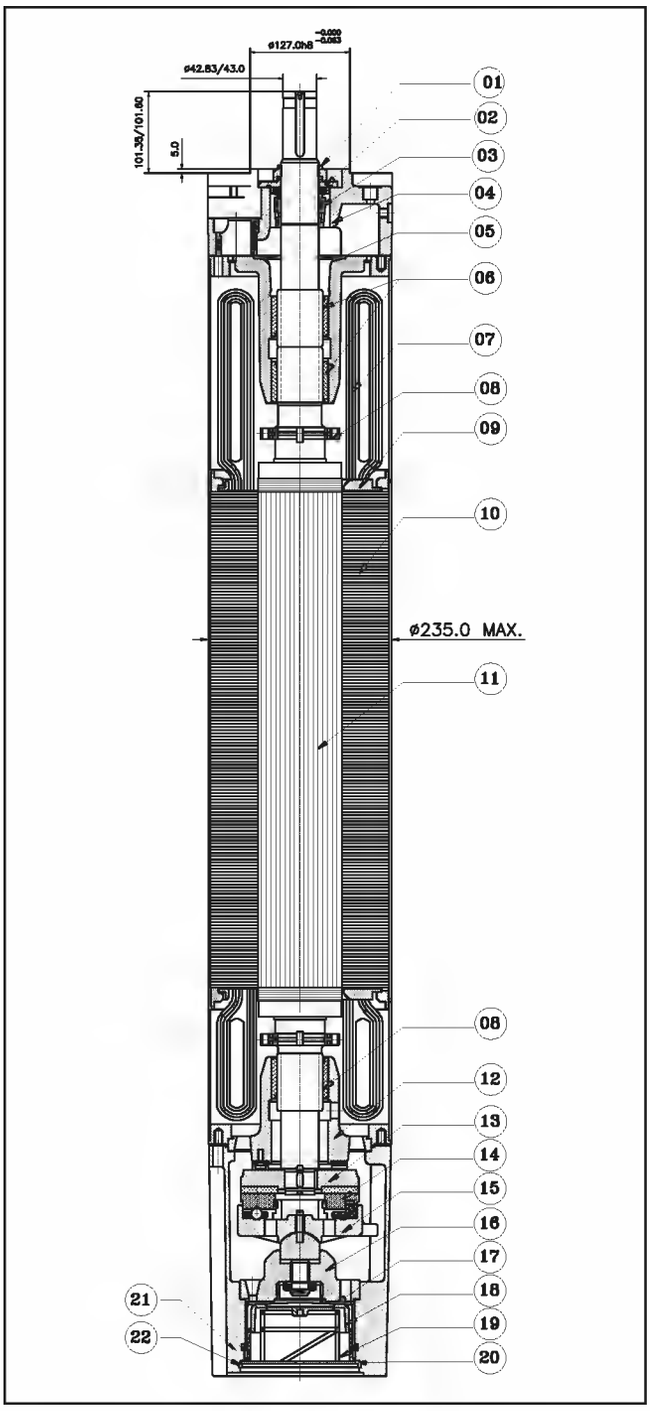
SECTION VIEW 8" MTSF



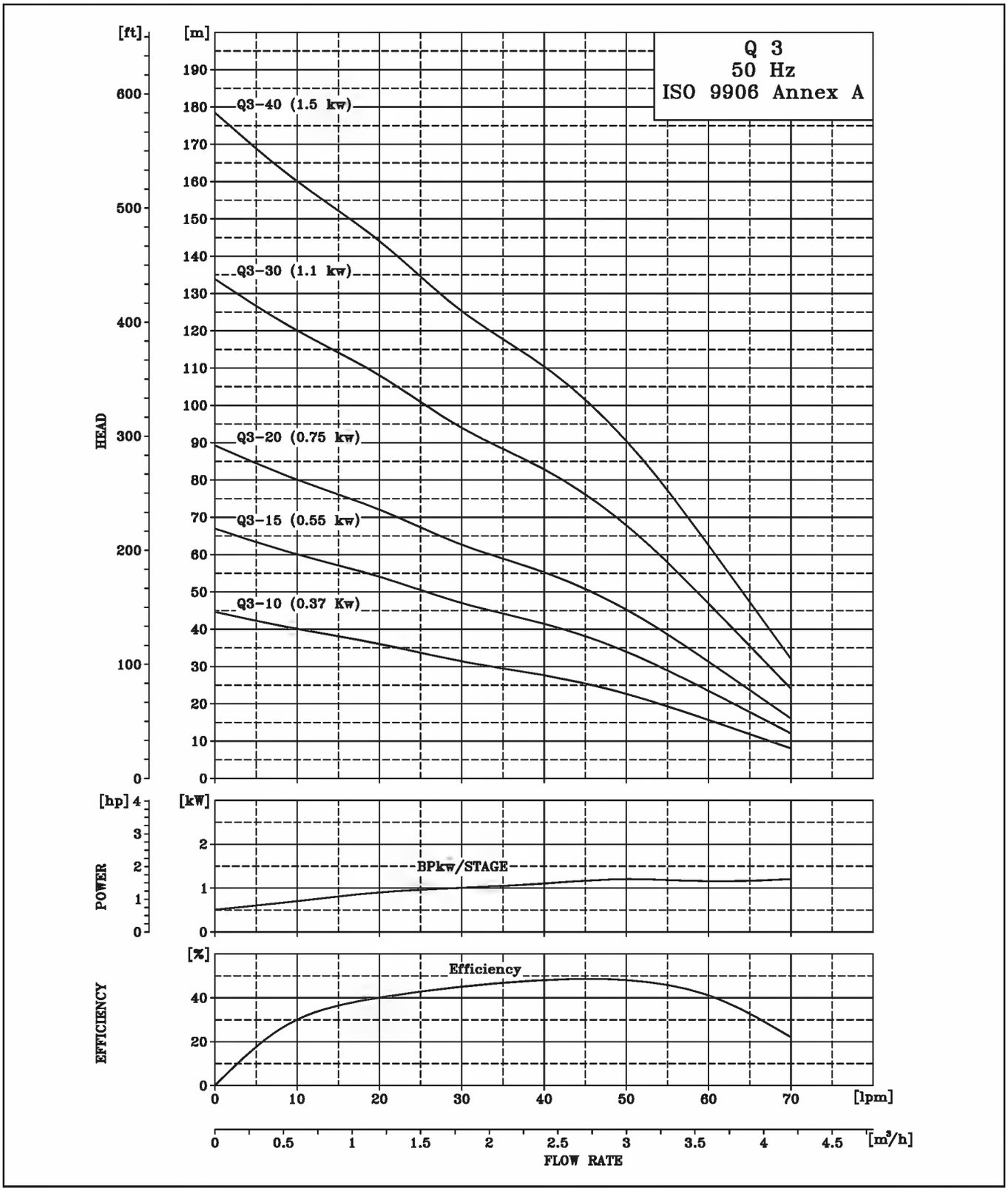
MATERIAL SPECIFICATION 10" MTSF

SR.NO.	COMPONENT	MATERIAL
1	SEND SLINGER	NBR
2	DUST COVER	MS
3	MECH SEAL	STD
4	ADOPTER	CI FG-260
5	BEARING BODY UPPER	CI FG-260
6	BUSH	CARBON
7	WINDING WIRE	STD
8	AUXILLIARY IMPELLER	PPS
9	END LAMINATION	MS
10	STATOR SUB ASSY	N/A
11	ROTOR SUB ASSY	N/A
12	BEARING BODY LOWER	CIFG-260
13	THRUST BEARING ASSY	CIFG-260
14	SEGMENT	SS AISI 420
15	BEARING SEGMENT CARRIER	CI FG-260
16	THRUST SUPPORT	CI FG-260
17	DIAPHRAGM	EPDM
18	SPRING BASE CUP	ABS
19	DIAPHRAGM SPRING	SS AISI 304
20	DIAPHRAGM COVER	SS AISI 304
21	THRUST HOUSING	CIFG-260
22	CIRCLIP	SS AISI 302

SECTIONAL VIEW OF 10" MTSF

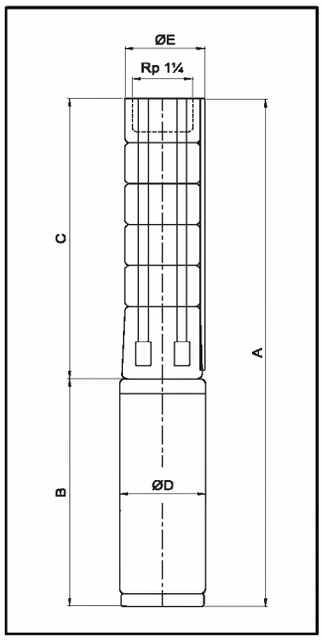


SUBMERSIBLE PUMP Q 3



SUBMERSIBLE PUMP Q 3

DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard & motor.

TECHNICAL DATA Q 3

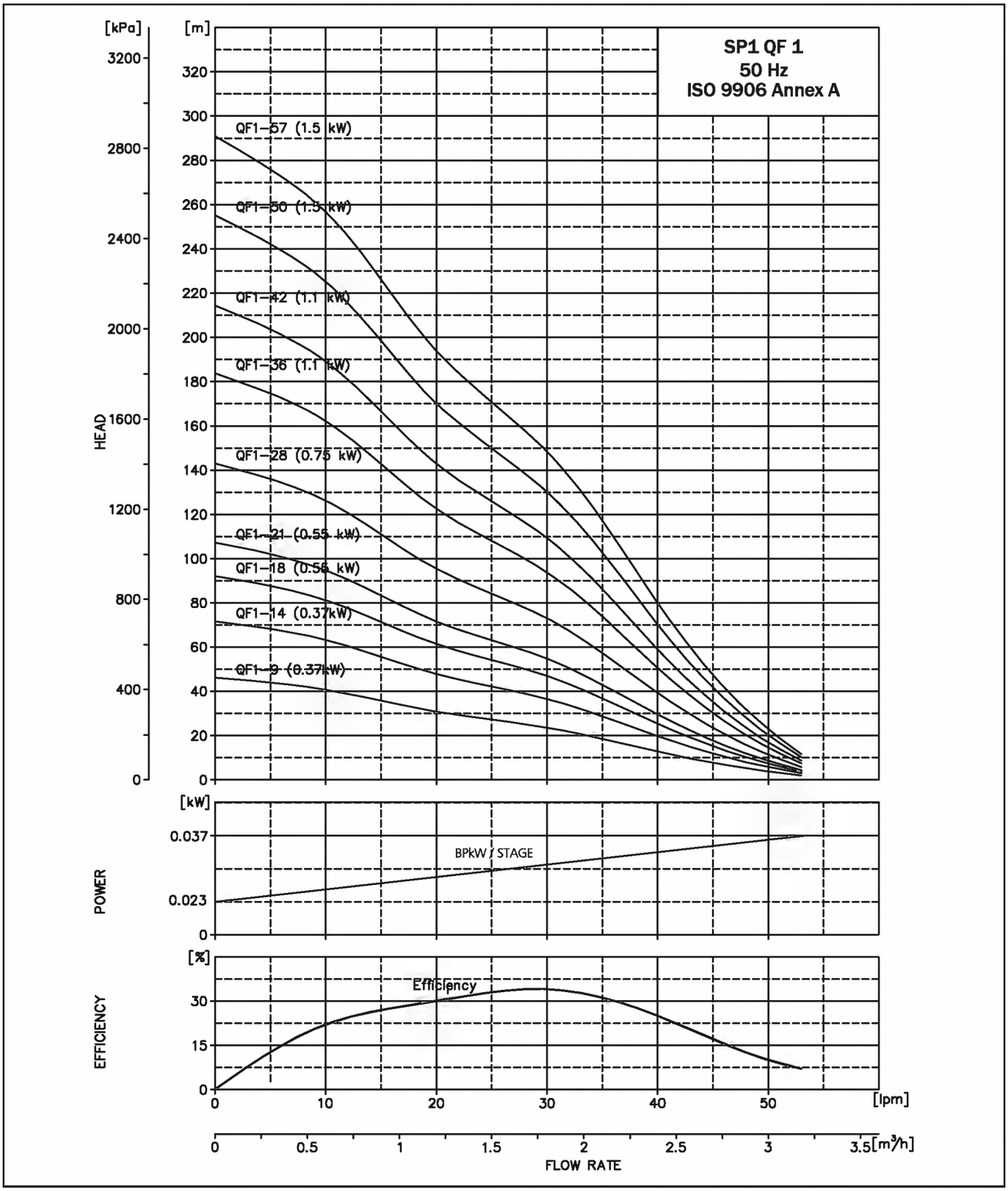
PUMP TYPE	MOTOR		DIMENSIONS (MM)					NET WEIGHT (KG)	
	TYPE*	POWER (kW)	C	B	A	D	E	PUMP	MOTOR
				1x230V	1x230V				1x230V
Q3 - 10	V3 MOTOR	0.37	402	501	903	73	3	3	9
Q3 - 15	V3 MOTOR	0.55	507	501	1008	73	83	4	10
Q3 - 20	V3 MOTOR	0.75	612	551	1163	73	83	5	12
Q3 - 30	V3 MOTOR	1.1	822	601	1423	73	83	7	15
Q3 - 40	V3 MOTOR	1.5	1032	-	-	73	83	8	18

* Motor type may change as per requirement .

PERFORMANCE TABLE Q 3

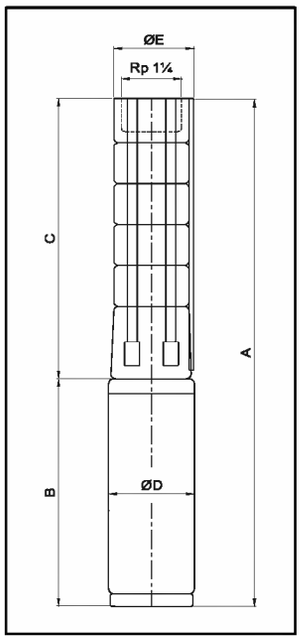
QF-3					DISCHARGE (Q)							
					m^3/h		0.6	1.2	1.8	2.4	3	4.2
					l/min.		10	20	30	40	50	70
MODEL	CONNECTION	MATERIAL CODE (4x4)	MOTOR RATING		I~	3~	TOTAL HEAD IN (m)					
			[kW]	[HP]	[A]	[A]						
Q-3-10	Rp1¼	9000017891	0.37	0.5	4.1	-	40	36	32	27	23	10
Q-3-15		9000018520	0.55	0.75	6.2	-	60	53	47	41	34	15
Q-3-20		9000018521	0.75	1	8.3	-	80	71	62	55	45	20
Q-3-26		-	0.93	1.25	10	-	104	93	81	72	59	26
Q-3-30		9000018522	1.1	1.5	12.5	-	120	107	94	83	68	24
Q-3-40		9000018523	1.5	2	16.5	-	160	142	125	110	90	40

SUBMERSIBLE PUMP QF 1



SUBMERSIBLE PUMP QF 1

DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard & motor.

TECHNICAL DATA QF 1

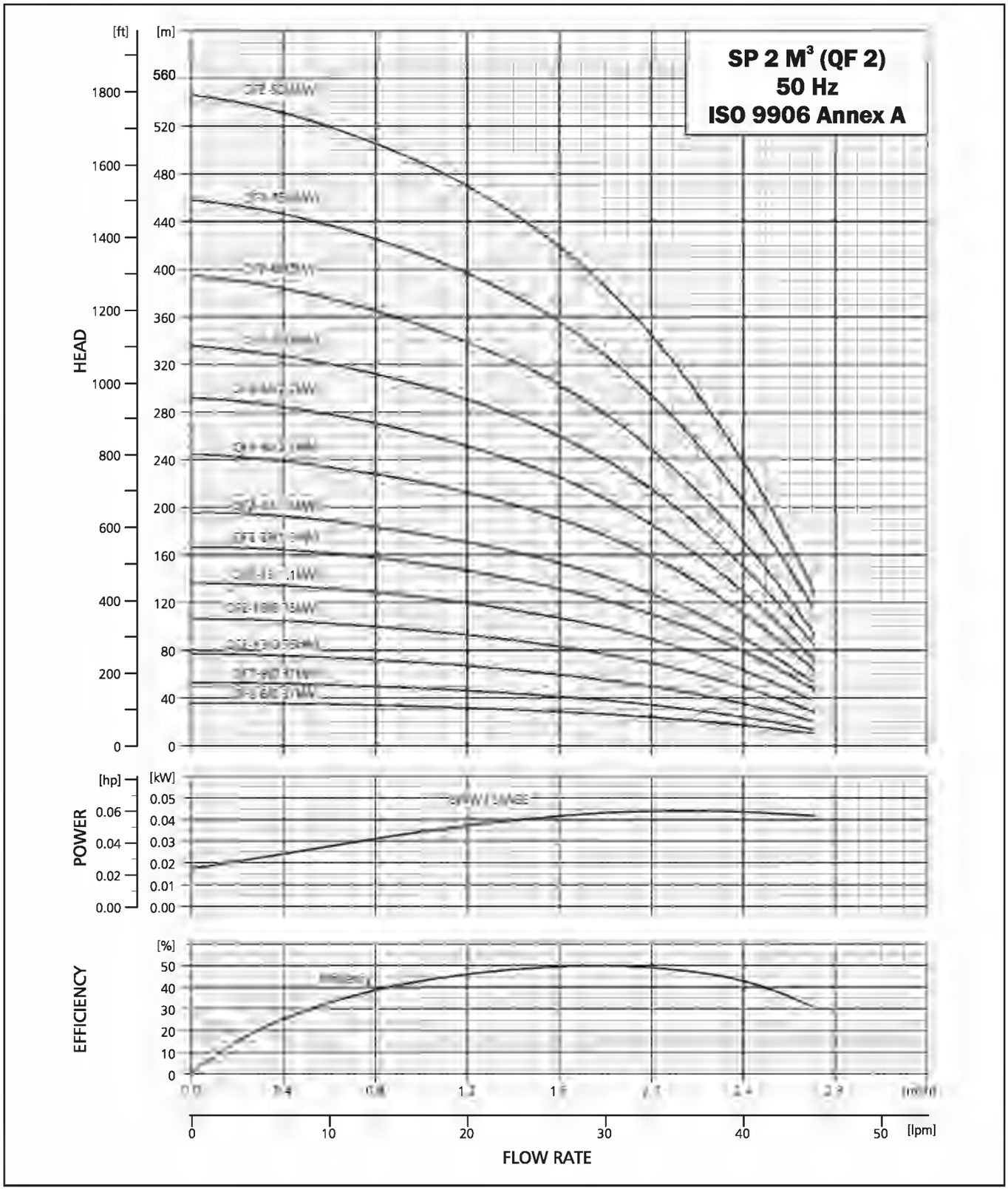
PUMP TYPE	MOTOR		DIMENSIONS (MM)							NET WEIGHT (KG)		
	TYPE	POWER (kW)	C	B		A		D	E	PUMP	MOTOR	
				1x230V	3x220V 3x400V	1x230V	3x220V 3x400V				1x230V	3x220V 3x400V
QF 1 - 9	4" PREMIUM 100	0.37	344	256	226	600	570	95	101	4	11	9
QF 1 - 14	4" PREMIUM 100	0.37	449	256	226	705	675	95	101	5	12	10
QF 1 - 18	4" PREMIUM 100	0.55	533	291	241	824	774	95	101	6	14	12
QF 1 - 21	4" PREMIUM 100	0.55	596	291	241	887	837	95	101	7	14	12
QF 1 - 28	4" PREMIUM 100	0.8	743	306	276	1049	1019	95	101	9	16	15
QF 1 - 36	4" PREMIUM 100	1.1	956	346	306	1302	1262	95	101	10	25	23
QF 1 - 42	4" PREMIUM 100	1.1	1082	346	306	1428	1388	95	101	13	27	25
QF 1 - 50	4" PREMIUM 100	1.5	1250	346	346	1596	1596	95	101	14	30	29
QF 1 - 57	4" PREMIUM 100	1.5	1397	346	346	1743	1743	95	101	15	32	32

* Motor type may change as per requirement .

PERFORMANCE TABLE QF 1

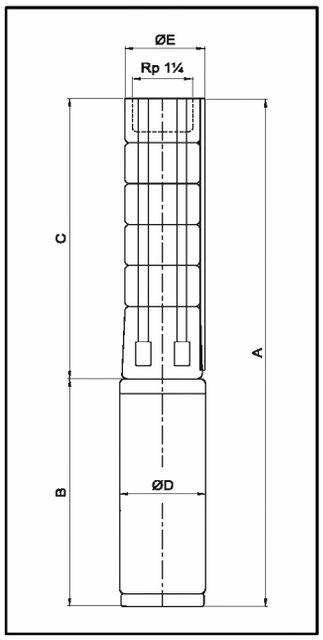
QF-1					DISCHARGE (Q)								
					m^3/h		0	0.6	1.2	1.5	1.8	2.4	3.0
					l/min.		0	10	20	25	30	40	50
MODEL	CONNECTION	MATERIAL CODE (4x4)	MOTOR RATING		I~	3~	TOTAL HEAD IN (m)						
			[kW]	[HP]	[A]	[A]							
QF 1-9	Rp 1 1/4	9000002475	0.37	0.5	2.9	1.4	46	40	30	27	23	13	4
QF 1-14		9000002460	0.37	0.5	2.9	1.4	72	63	47	43	35	20	7
QF 1-18		9000002462	0.55	0.75	4	2.2	93	80	60	55	45	26	8
QF 1-21		9000002463	0.55	0.75	4	2.2	108	94	71	64	53	30	10
QF 1-28		9000002466	0.75	1	5.5	2.3	144	125	94	85	70	40	13
QF 1-36		9000002468	1.1	1.5	8.2	3.4	185	161	121	109	90	51	17
QF 1-42		9000002470	1.1	1.5	8.2	3.4	216	188	141	128	105	60	20
QF 1-50		9000002472	1.5	2	10.2	4.2	257	223	168	152	125	71	23
QF 1-57		9000002473	1.5	2	10.2	4.2	293	254	191	173	143	81	26

SUBMERSIBLE PUMP QF 2



SUBMERSIBLE PUMP QF 2

DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard & motor.

QF 2 -75 to QF 2-90 are mounted in sleeve for R 1¼" connection and with max. diameter 108 mm.

TECHNICAL DATA QF 2

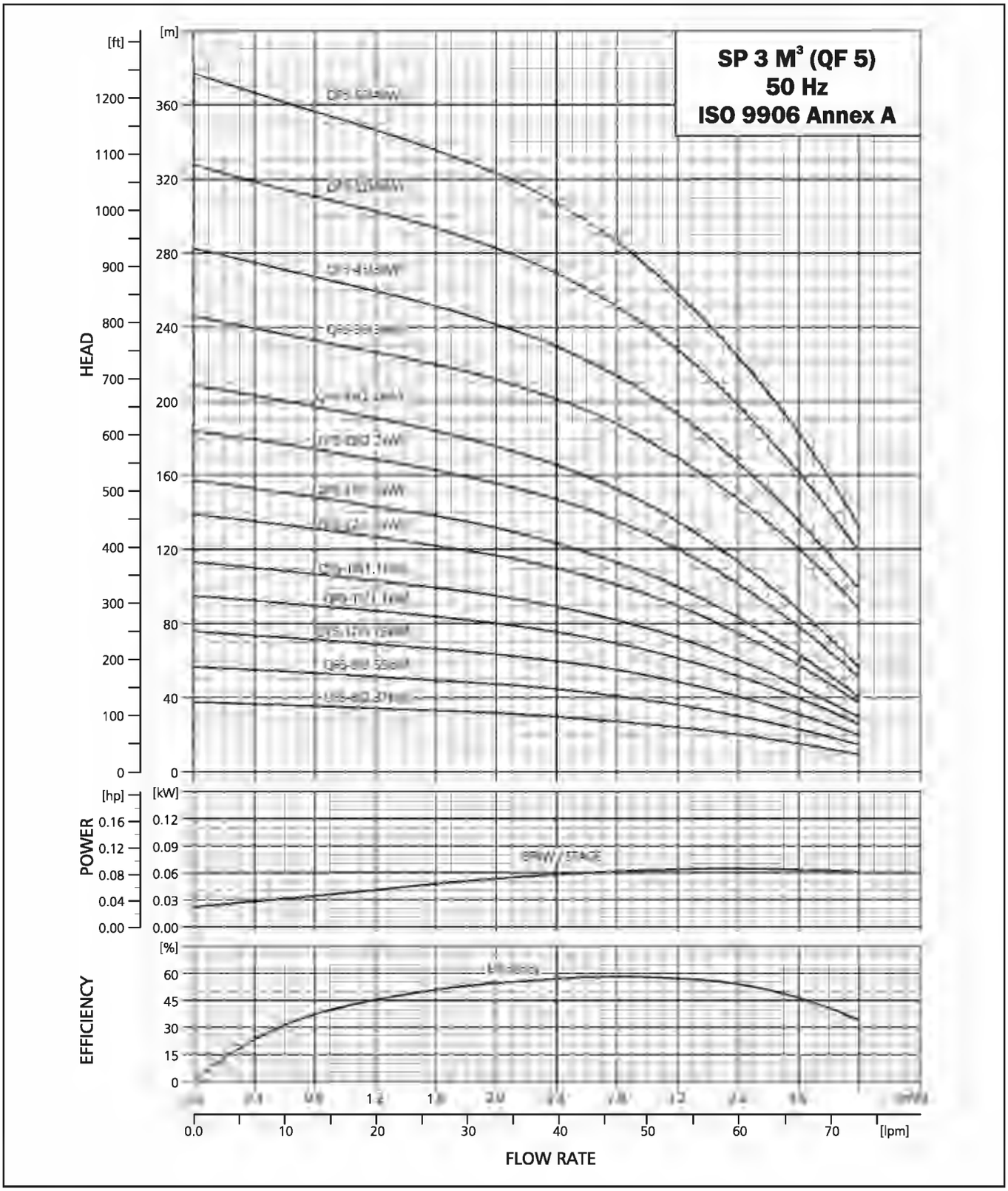
PUMP TYPE	MOTOR		DIMENSIONS (MM)							NET WEIGHT (KG)		
	TYPE	POWER (kW)	C	B		A		D	E	PUMP	MOTOR	
				1x230V	3x220V 3x400V	1x230V	3x220V 3x400V				1x230V	3x220V 3x400V
QF 2 - 6	PREMIUM 100	0.37	309	242	-	551	-	95	101	3	9	-
QF 2 - 9	PREMIUM 100	0.37	372	242	-	614	-	95	101	4	9	-
QF 2 - 13	PREMIUM 100	0.55	456	271	242	727	698	95	101	5	10	9
QF 2 - 18	PREMIUM 100	0.75	561	292	271	853	832	95	101	6	11	10
QF 2 - 23	PREMIUM 100	1.1	666	340	292	1006	958	95	101	7	13	11
QF 2 - 28	PREMIUM 100	1.5	771	405	340	1176	1111	95	101	9	15	13
QF 2 - 33	PREMIUM 100	1.5	876	405	340	1281	1216	95	101	10	15	13
QF 2 - 40	PREMIUM 100	2.2	1023	482	405	1505	1428	95	101	11	17	15
QF 2 - 48	PREMIUM 100	2.2	1191	482	405	1673	1596	95	101	13	17	15
QF 2 - 55	PREMIUM 100	3.0	1338	-	482	-	1820	95	101	15	-	17
QF 2 - 65	PREMIUM 100	3.0	1548	-	482	-	2030	95	101	17	-	17
QF 2 - 75	PREMIUM 101	4.0	1758	693	-	2451	-	95	101	20	29	23
QF 2 - 90	PREMIUM 101	4.0	2073	693	-	2766	-	95	101	23	29	23

* Motor type may change as per requirement .

PERFORMANCE TABLE QF 2

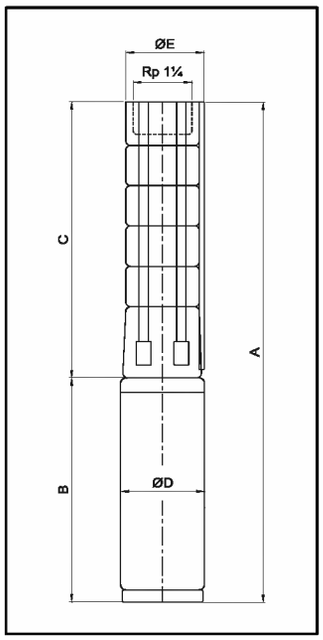
QF-2					DISCHARGE (Q)								
					m^3/h		0	1	1.4	1.8	2	2.4	2.7
					l/min.		0	16.7	23.4	30.1	33.4	40.1	45
MODEL	CONNECTION	MATERIAL CODE (4x4)	MOTOR RATING		1~	3~	TOTAL HEAD IN (m)						
			[kW]	[HP]	[A]	[A]							
QF2 - 6	Rp 1¼	9000002503	0.37	0.5	2.9	1.4	36	33	30	26	24	17	10
QF2 - 9		9000002506	0.37	0.5	2.9	1.4	53	48	44	38	34	24	14
QF2 - 13		9000002494	0.55	0.75	4.0	2.2	77	70	64	55	50	35	20
QF2 - 18		9000002495	0.75	1.0	5.5	2.3	107	97	89	77	69	49	29
QF2 - 23		9000002497	1.1	1.5	8.2	3.4	137	124	114	99	90	64	38
QF2 - 28		9000002498	1.5	2.0	10.2	4.2	167	152	140	122	110	79	49
QF2 - 33		9000002499	1.5	2.0	10.2	4.2	196	178	163	142	128	90	55
QF2 - 40		9000002500	2.2	3.0	14.0	5.5	245	221	203	176	158	111	65
QF2 - 48		9000002501	2.2	3.0	14.0	5.5	292	262	240	207	186	129	72
QF2 - 55		9000002502	3.0	4.0	-	7.9	336	302	277	240	215	150	86
QF2 - 65	sleeve	9000002504	3.0	4.0	-	7.9	395	352	323	280	250	170	94
QF2 - 75		9000002505	4.0	5.5	-	9.6	457	412	378	328	292	205	118
QF2 - 90		-	4.0	5.5	-	9.6	545	489	446	386	345	237	130

SUBMERSIBLE PUMP QF 5



SUBMERSIBLE PUMP QF 5

DIMENSIONS AND WEIGHTS



E = Maximum Dia of Pump inclusive of cable guard and motor.

TECHNICAL DATA QF 5

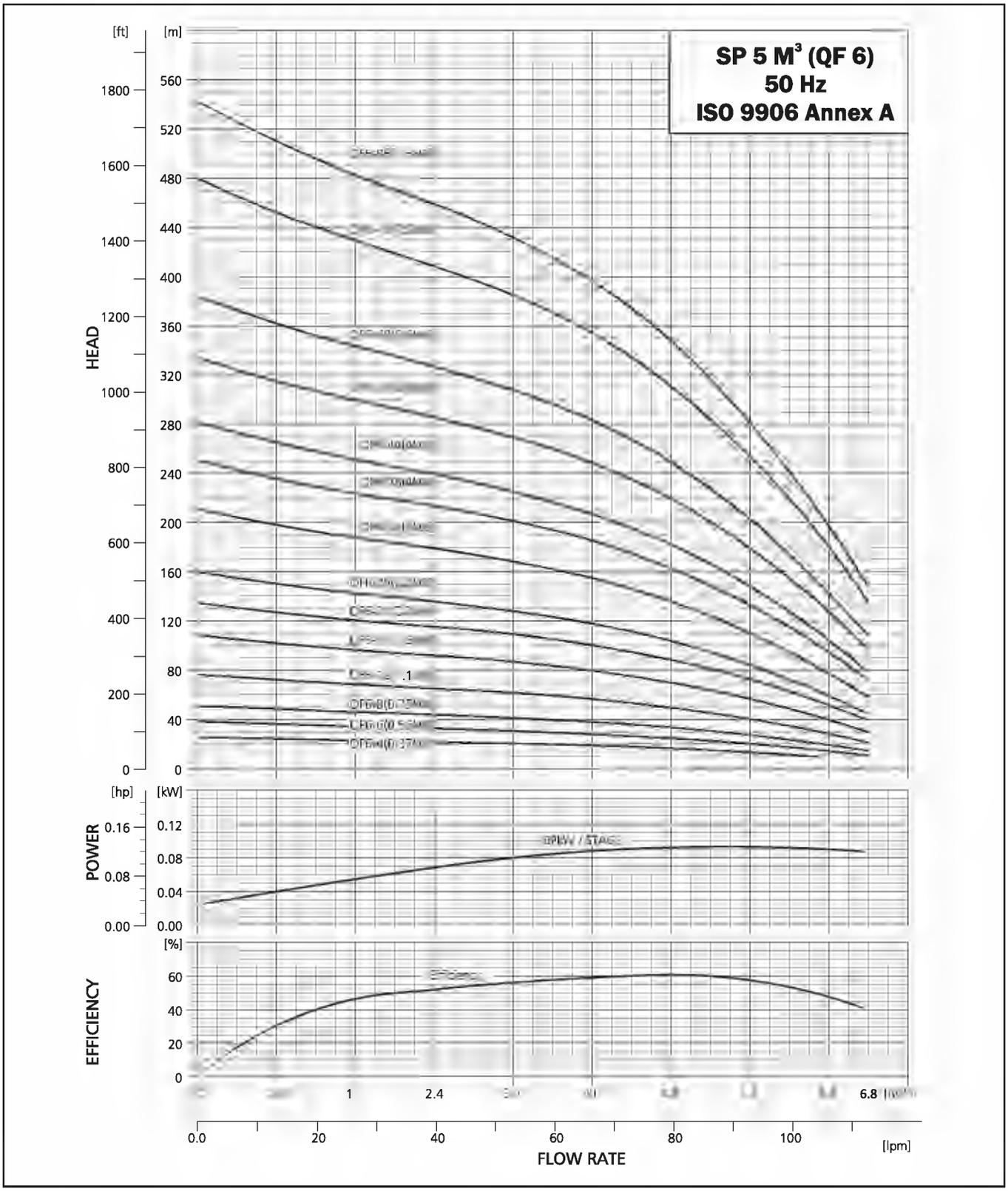
PUMP TYPE	MOTOR		DIMENSIONS (MM)							NET WEIGHT (KG)		
	TYPE	POWER (kW)	C	B		A		D	E	PUMP	MOTOR	
				1x230V	3x220V 3x400V	1x230V	3x220V 3x400V				1x230V	3x220V 3x400V
QF 5-6	PREMIUM 100	0.37	309	242	-	551	-	95	101	3	9	-
QF 5-9	PREMIUM 100	0.55	372	271	242	643	614	95	101	4	10	9
QF 5-12	PREMIUM 100	0.75	435	292	271	727	706	95	101	5	11	10
QF 5-15	PREMIUM 100	1.1	498	340	292	838	790	95	101	5	13	11
QF 5-18	PREMIUM 100	1.1	561	340	292	901	853	95	101	6	13	11
QF 5-22	PREMIUM 100	1.5	645	405	340	1050	985	95	101	7	15	13
QF 5-25	PREMIUM 100	1.5	708	405	340	1113	1048	95	101	8	15	13
QF 5-29	PREMIUM 100	2.2	792	482	405	1274	1197	95	101	9	17	15
QF 5-33	PREMIUM 100	2.2	876	482	405	1358	1281	95	101	10	17	15
QF 5-39	PREMIUM 100	3.0	1002	-	480	-	1482	95	101	11	-	17
QF 5-45	PREMIUM 100	3.0	1128	-	482	-	1610	95	101	13	-	17
QF 5-52	PREMIUM 101	4.0	1275	-	693	-	1968	95	101	14	-	29
QF 5-60	PREMIUM 101	4.0	1443	-	693	-	2136	95	101	16	-	29

* Motor type may change as per requirement .

PERFORMANCE TABLE QF 5

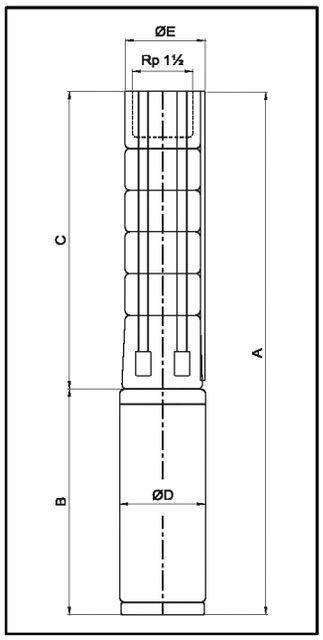
QF-5						DISCHARGE (Q)										
						m^3/h	0	1	1.4	1.8	2	2.4	2.8	4	5	8
						l/min.	0	16.7	23.4	30.1	33.4	40.1	46.8	56.8	66.8	73.5
MODEL	CONNE -CTION	MATERIAL CODE		MOTOR RATING		I~	3~	TOTAL HEAD IN (m)								
		(4X4)	(6X4)	[kW]	[HP]	[A]	[A]									
QF5-6	Rp1¼	9000002539	-	0.37	0.5	2.9	1.4	38	35	34	32	31	30	27	22	15	10
QF5-9		9000002542	-	0.55	0.75	4	2.2	57	54	51	49	47	45	41	33	23	15
QF5-12		9000002524	-	0.75	1	5.5	2.3	76	70	68	65	64	60	55	45	31	20
QF5-15		9000002525	-	1.1	1.5	8.2	3.4	95	87	85	82	80	76	70	57	40	27
QF5-18		9000002526	-	1.1	1.5	8.2	3.4	113	105	101	97	95	89	82	67	46	30
QF5-22		9000002527	-	1.5	2.0	10.2	4.2	139	129	125	120	117	110	101	83	57	37
QF5-25		9000002529	-	1.5	2.0	10.2	4.2	157	145	140	135	131	124	113	92	63	41
QF5-29		9000002530	-	2.2	3.0	14	5.5	184	171	166	159	156	147	136	111	78	52
QF5-33		9000002534	-	2.2	3.0	14	5.5	209	194	187	180	176	166	152	125	87	58
QF5-39		9000002535	-	3.0	4.0	-	7.9	246	230	223	216	212	201	188	160	120	89
QF5-45		9000002536	-	3.0	4.0	-	7.9	283	264	255	247	242	229	214	181	135	99
QF5-52		9000002538	9000013541	4.0	5.5	-	9.6	328	308	298	289	283	269	251	214	161	120
QF5-60		9000002540	9000013542	4.0	5.5	-	9.6	377	350	341	330	323	307	286	242	182	135

SUBMERSIBLE PUMP QF 6



SUBMERSIBLE PUMP QF 6

DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard & motor.

QF 6 -75 to QF 2-85 are mounted in sleeve for Rp 1½" connection and with max. diameter 108 mm.

TECHNICAL DATA QF 6

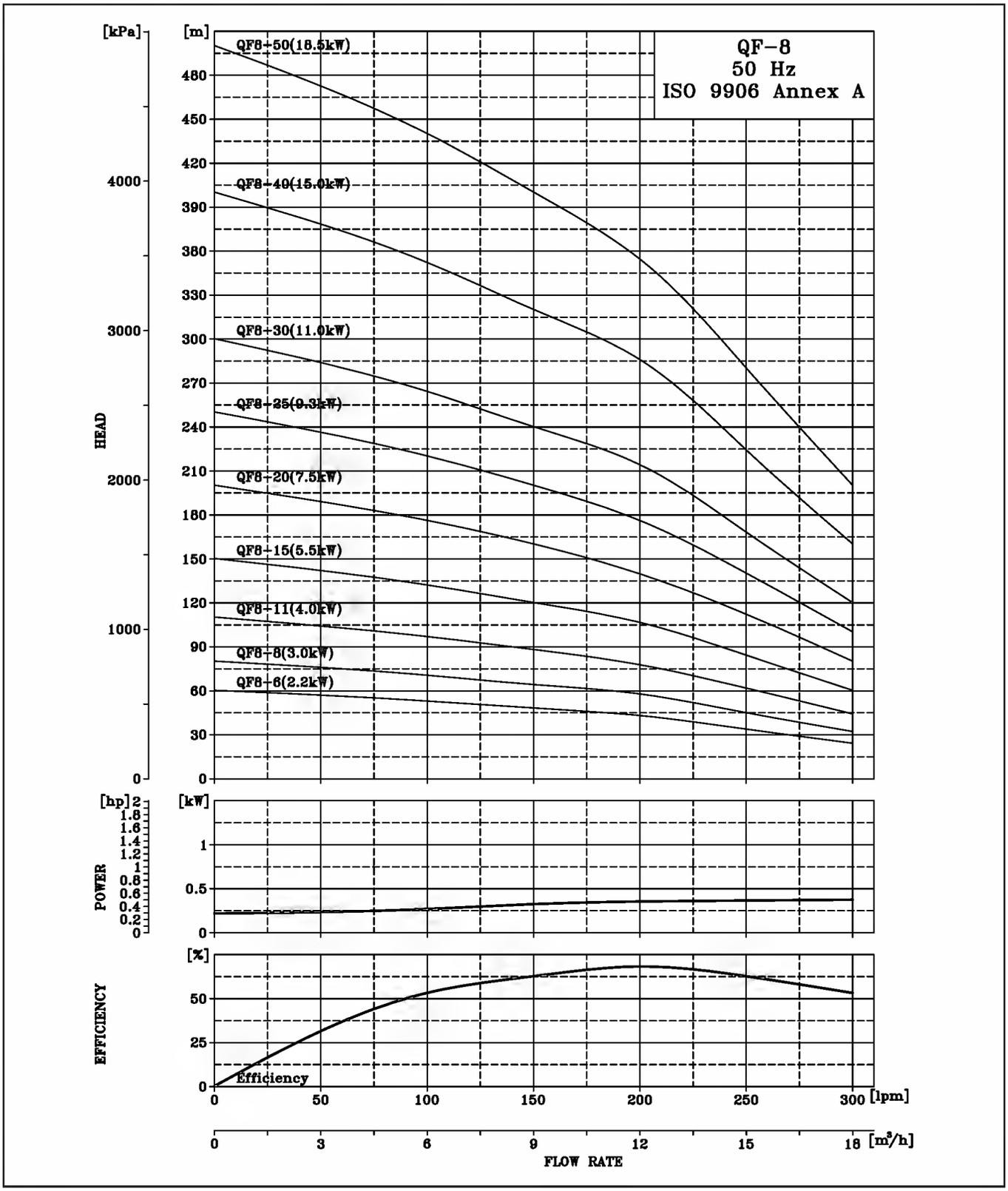
PUMP TYPE	MOTOR		DIMENSIONS (MM)							NET WEIGHT (KG)		
	TYPE	POWER (kW)	C	B		A		D	E	PUMP	MOTOR	
				1x230V	3x220V 3x400V	1x230V	3x220V 3x400V				1x230V	3x220V 3x400V
QF 6-4	PREMIUM100	0.37	267	242	-	509	-	95	97	3	9	-
QF 6-6	PREMIUM100	0.55	309	271	242	580	551	95	97	3	10	9
QF 6-8	PREMIUM100	0.75	351	292	271	643	622	95	97	4	11	10
QF 6-12	PREMIUM100	1.1	435	340	292	775	727	95	97	5	13	11
QF 6-17	PREMIUM100	1.5	540	405	340	945	880	95	97	6	15	13
QF 6-21	PREMIUM100	2.2	624	482	405	1106	1029	95	97	7	17	15
QF 6-25	PREMIUM100	2.2	708	482	405	1190	1113	95	97	8	17	15
QF 6-33	PREMIUM100	3	876	-	482	-	1358	95	97	10	-	17
QF 6-38	PREMIUM101	4	981	693	-	1674	-	95	97	11	29	-
QF 6-44	PREMIUM101	4	1107	693	-	1800	-	95	97	12	29	-
QF 6-52	PREMIUM101	5.5	1275	-	693	-	1968	95	97	14	-	29
QF 6-60	PREMIUM101	5.5	1443	-	693	-	2136	95	97	16	-	29
QF 6-75	PREMIUM101	7.5	1758	-	770	-	2528	95	97	20	-	33
QF 6-85	PREMIUM101	7.5	1968	-	770	-	2738	95	97	22	-	33
QF 6-52	MATASF150	5.5	1275	-	699	-	1974	145	143	14	-	48
QF 6-60	MATASF150	5.5	1443	-	699	-	2142	145	143	16	-	48
QF 6-75	MATASF150	7.5	1758	-	719	-	2477	145	143	20	-	50
QF 6-85	MATASF150	7.5	1968	-	719	-	2687	145	143	22	-	50

* Motor type may change as per requirement .

PERFORMANCE TABLE QF 6

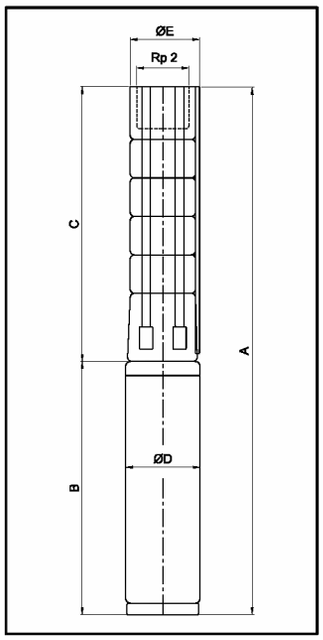
QF-6						DISCHARGE (Q)												
						m^3/h	0	1	1.4	1.8	2	2.4	2.8	3.4	4	4.4	5	6	6.8
						l/min.	0	16.7	23.4	30.1	33.4	40.1	46.8	56.8	66.8	73.5	83.5	100.2	113.3
MODEL	CONNE -CTION	MATERIAL CODE		MOTOR RATING		I~	3~	TOTAL HEAD IN (m)										
		4x4	6x4	[kW]	[HP]	[A]	[A]											
QF6-4	Rp1½	9000002563	-	0.37	0.5	2.9	1.4	26	24	23	23	22	22	21	20	19	18	16	11	9
QF6-6		9000002567	-	0.55	0.75	4	2.2	38	36	35	34	33	33	32	30	28	26	24	17	11
QF6-8		9000002573	-	0.75	1	5.5	2.3	51	48	47	46	45	44	43	40	38	36	32	23	15
QF6-12		9000002553	-	1.1	1.5	8.2	3.4	77	72	70	68	67	65	63	60	56	54	47	35	21
QF6-17		9000002554	-	1.5	2	10.2	4.2	109	100	97	96	94	92	90	85	80	75	67	49	30
QF6-21		9000002557	-	2.2	3	14	5.5	135	126	122	120	118	115	112	106	100	95	85	63	39
QF6-25		9000002558	-	2.2	3	14	5.5	160	150	145	141	139	135	131	125	118	112	99	72	45
QF6-33		9000002561	-	3	4	-	7.9	211	195	190	186	183	179	173	166	155	148	130	95	59
QF6-38		9000002562	9000011562	4	5.5	-	9.6	250	233	229	221	219	215	209	199	186	177	157	115	72
QF6-44		9000002564	9000011577	4	5.5	-	9.6	281	260	257	250	245	240	232	220	207	195	174	127	79
QF6-52		9000002565	9000002566	5.5	7.5	-	13.6	334	310	302	296	293	285	280	267	249	238	210	155	98
QF6-60		9000002568	9000002569	5.5	7.5	-	13.6	384	360	345	339	335	325	319	303	283	269	238	175	108
QF6-75		-	9000014918	7.5	10	-	-	480	450	431	424	418	405	397	379	353	337	300	212	138
QF6-85		-	9000002575	7.5	10	-	-	544	510	488	480	473	459	450	430	400	382	340	240	150

SUBMERSIBLE PUMP QF 8



SUBMERSIBLE PUMP QF 8

DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard & motor.

TECHNICAL DATA QF 8

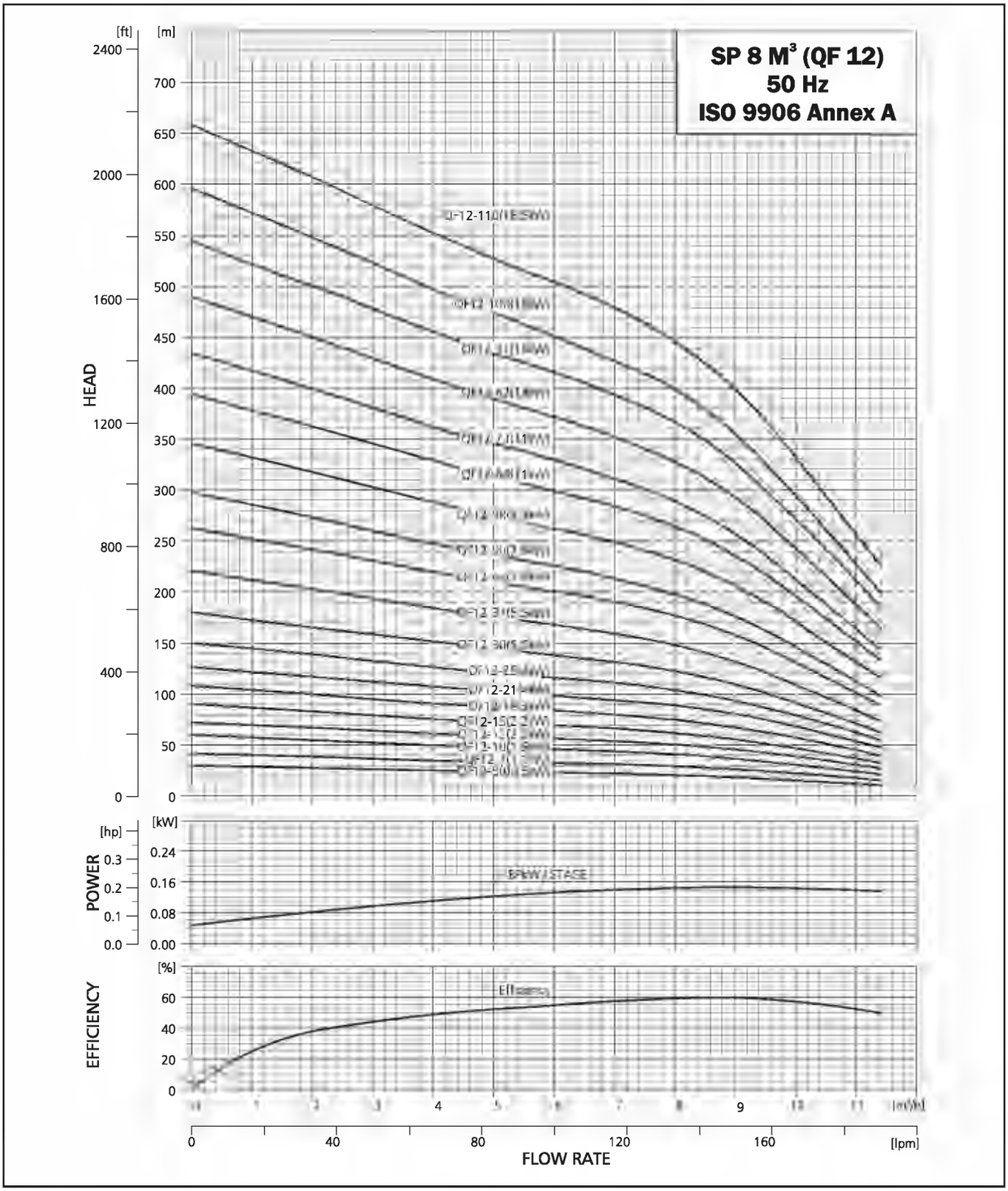
PUMP TYPE	MOTOR		DIMENSIONS (MM)								NET WEIGHT (KG)		
	TYPE*	POWER (kW)	C	B		A		D	E*	E**	PUMP	MOTOR	
				1x230V	3x220V 3x400V	1x230V	3x220V 3x400V					1x230V	3x220V 3x400V
QF8-6	SML 150	2.2	639	555	520	1194	1159	144.5	143	-	15	34	30
QF8-8	SML 150	3	760	645	555	1405	1315	144.5	143	-	18	42	34
QF8-11	SML 150	4	942	645	555	1587	1497	144.5	143	-	22	42	34
QF8-15	SML 150	5.5	1184	680	595	1864	1779	144.5	-	145	27	46	37
QF8-20	SML 150	7.5	1486	-	645	-	2131	144.5	-	145	34	-	42
QF8-25	SML 150	9.3	1789	-	680	-	2469	144.5	-	145	41	-	46
QF8-30	SML 150	11	2091	-	705	-	2796	144.5	-	145	48	-	47
QF8-40	SML 150	15	2696	-	820	-	3516	144.5	-	145	61	-	61
QF8-50	SML 150	18.5	3301	-	910	-	4211	144.5	-	145	75	-	68

*Maximum diameter of pump with one motor cable
* *Maximum diameter of pump with two motor cable
Motor type may change as per requirement

PERFORMANCE TABLE QF 8

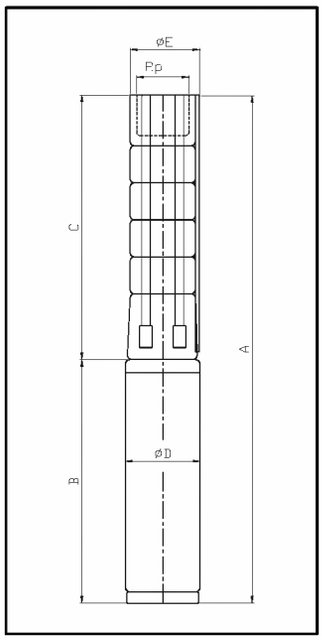
QF-8			DISCHARGE (Q)								
			m^3/h		0	6	8	10	12	15	18
			l/min.		0	100	133	167	200	250	300
MODEL	CONNECTION	MATERIAL CODE (6x6)	MOTOR RATING		TOTAL HEAD IN (m)						
			[kW]	[HP]							
QF8-6	Rp 2	9000024442	2.2	3.0	60	53	50	47	43	34	24
QF8-8		9000024443	3.0	4.0	82	70	66	62	58	45	32
QF8-11		9000024444	4.0	5.5	109	97	91	86	79	62	44
QF8-15		9000015505	5.5	7.5	150	132	125	117	108	84	60
QF8-20		9000015506	7.5	10.0	205	176	166	156	144	112	80
QF8-25		9000024445	9.3	12.5	254	220	208	195	180	140	100
QF8-30		9000015508	11.0	15.0	300	264	249	234	216	168	120
QF8-40		9000015509	15.0	20.0	409	352	332	312	288	224	160
QF8-50		9000015510	18.5	25.0	505	440	415	390	360	280	200

SUBMERSIBLE PUMP QF 12



SUBMERSIBLE PUMP QF 12

DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard & motor.

Qf12 58 to QF12 110 are mounted in sleeve for R 2" connection

TECHNICAL DATA QF 12

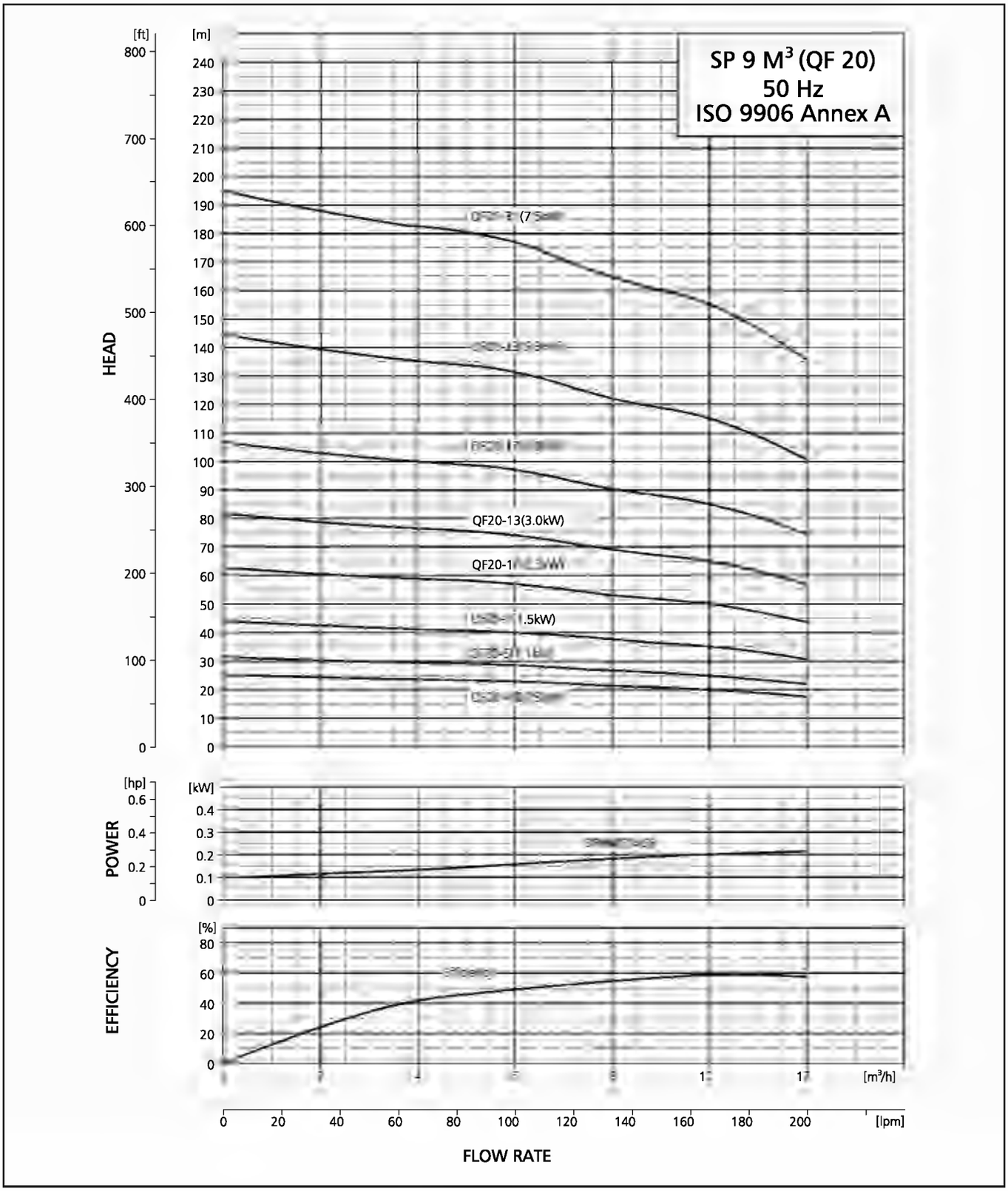
PUMP TYPE	MOTOR		DIMENSIONS (MM)							NET WEIGHT (KG)		
	TYPE	POWER (kW)	C	B		A		D	E	PUMP	MOTOR	
				1x230V	3x220V 3x400V	1x230V	3x220V 3x400V				1x230V	3x220V 3x400V
QF12-5	4"PREMIUM 100	0.75	415	292	271	707	686	95	101	4	11	10
QF12-7	4"PREMIUM 100	1.1	499	340	292	839	791	95	101	5	13	11
QF12-10	4"PREMIUM 100	1.5	625	405	340	1030	965	95	101	6	15	13
QF12-12	4"PREMIUM 100	2.2	709	482	405	1191	1114	95	101	7	17	15
QF12-15	4"PREMIUM 100	2.2	835	482	405	1317	1240	95	101	9	17	15
QF12-18	4"PREMIUM 100	3	961	-	482	-	1443	95	101	10	-	17
QF12-21	4"PREMIUM 101	4	1087	-	579	-	1666	95	101	11	-	23
QF12-25	4"PREMIUM 101	4	1255	-	579	-	1834	95	101	13	-	23
QF12-30	4"PREMIUM 101	5.5	1465	-	693	-	2158	95	101	15	-	29
QF12-37	4"PREMIUM 101	5.5	1759	-	693	-	2452	95	101	18	-	29
QF12-44	4"PREMIUM 101	7.5	2053	-	770	-	2823	95	101	21	-	33
QF12-50	4"PREMIUM 101	7.5	2305	-	770	-	3075	95	101	24	-	33
QF12-30	6"MTSF	5.5	1465	-	699	-	2164	143	145	15	-	48
QF12-37	6"MTSF	5.5	1759	-	699	-	2458	143	145	18	-	48
QF12-44	6"MTSF	7.5	2053	-	719	-	2772	143	145	21	-	50
QF12-50	6"MTSF	7.5	2305	-	719	-	3024	143	145	24	-	50
QF12-58	6"MTSF	9.3	2641	-	749	-	3390	143	145	27	-	53
QF12-66	6"MTSF	11	2977	-	779	-	3756	143	145	31	-	53
QF12-73	6"MTSF	11	3271	-	779	-	4050	143	145	34	-	56
QF12-82	6"MTSF	13	3649	-	829	-	4478	143	145	38	-	61
QF12-91	6"MTSF	15	4027	-	874	-	4901	143	145	42	-	66
QF12-100	6"MTSF	15	4405	-	874	-	5279	143	143	45	-	66
QF12-110	6"MTSF	18.5	4825	-	919	-	5744	143	143	50	-	70

* Motor type may change as per requirement .

PERFORMANCE TABLE QF 12

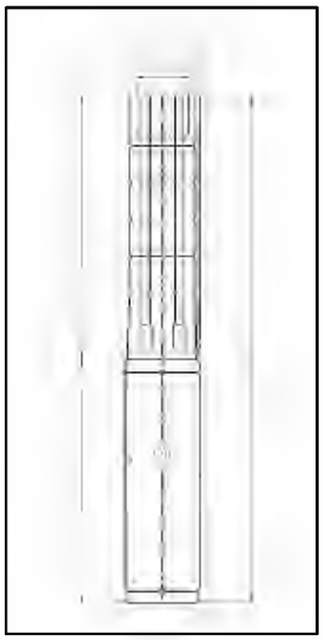
QF-12								DISCHARGE (Q)								
								m^3/h	0	1.4	2	4	6	8	9	10	11
								l/min.	0	23.4	33.4	66.8	100.2	133.3	150	167	183.7
MODEL	CONNE -CTION	MATERIAL CODE		MOTOR RATING		I~	3~	TOTAL HEAD IN (m)								
		4x4	6x4	[kW]	[HP]	[A]	[A]									
QF 12 - 5	Rp 2	9000002616	-	0.75	1.0	5.5	2.3	30	29	27	25	23	21	19	16	12
QF 12 - 7		9000002626	-	1.1	1.5	8.2	3.4	42	40	38	35	32	29	26	22	17
QF 12 - 10		9000002581	-	1.5	2.0	10.2	4.2	60	57	55	50	46	41	37	32	24
QF 12 - 12		9000002585	-	2.2	3.0	14.0	5.5	72	68	68	61	57	51	46	39	31
QF 12 - 15		9000002588	-	2.2	3.0	14.0	5.5	90	85	82	76	70	62	56	47	37
QF 12 - 18		9000002592	-	3.0	4.0	-	7.9	108	102	100	91	84	75	67	57	45
QF 12 - 21		9000002596	9000011469	4.0	5.5	-	9.6	127	120	117	107	99	89	80	68	53
QF 12 - 25		9000002600	9000008265	4.0	5.5	-	9.6	150	142	139	126	116	104	94	79	62
QF 12 - 30		9000002606	9000002607	5.5	7.5	-	13.6	180	170	165	151	138	123	110	92	71
QF 12 - 37		9000002609	9000002610	5.5	7.5	-	13.6	221	210	202	184	168	148	132	110	84
QF 12 - 44		-	9000002614	7.5	10.0	-	-	264	246	238	220	202	185	167	141	106
QF 12 - 50		-	9000002619	7.5	10.0	-	-	300	279	270	250	230	210	190	160	120
QF 12 - 58		-	9000012044	9.3	12.5	-	-	348	324	314	290	266	244	220	186	140
QF 12 - 66		-	9000002624	11	15.0	-	-	396	369	357	330	303	277	250	211	159
QF 12 - 73		-	9000002627	11	15.0	-	-	438	408	395	365	335	307	277	234	176
QF 12 - 82		-	9000002629	13.0	17.5	-	-	492	458	443	410	376	345	311	263	197
QF 12 - 91		-	9000002631	15.0	20.0	-	-	546	509	492	455	418	383	345	292	219
QF 12 - 100		-	9000002582	15.0	20.0	-	-	600	559	541	500	459	420	379	320	241
QF 12 - 110		-	9000013726	18.5	25.0	-	-	660	615	595	550	505	462	417	352	265

SUBMERSIBLE PUMP QF 20



SUBMERSIBLE PUMP QF 20

DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard & motor.

TECHNICAL DATA QF 20

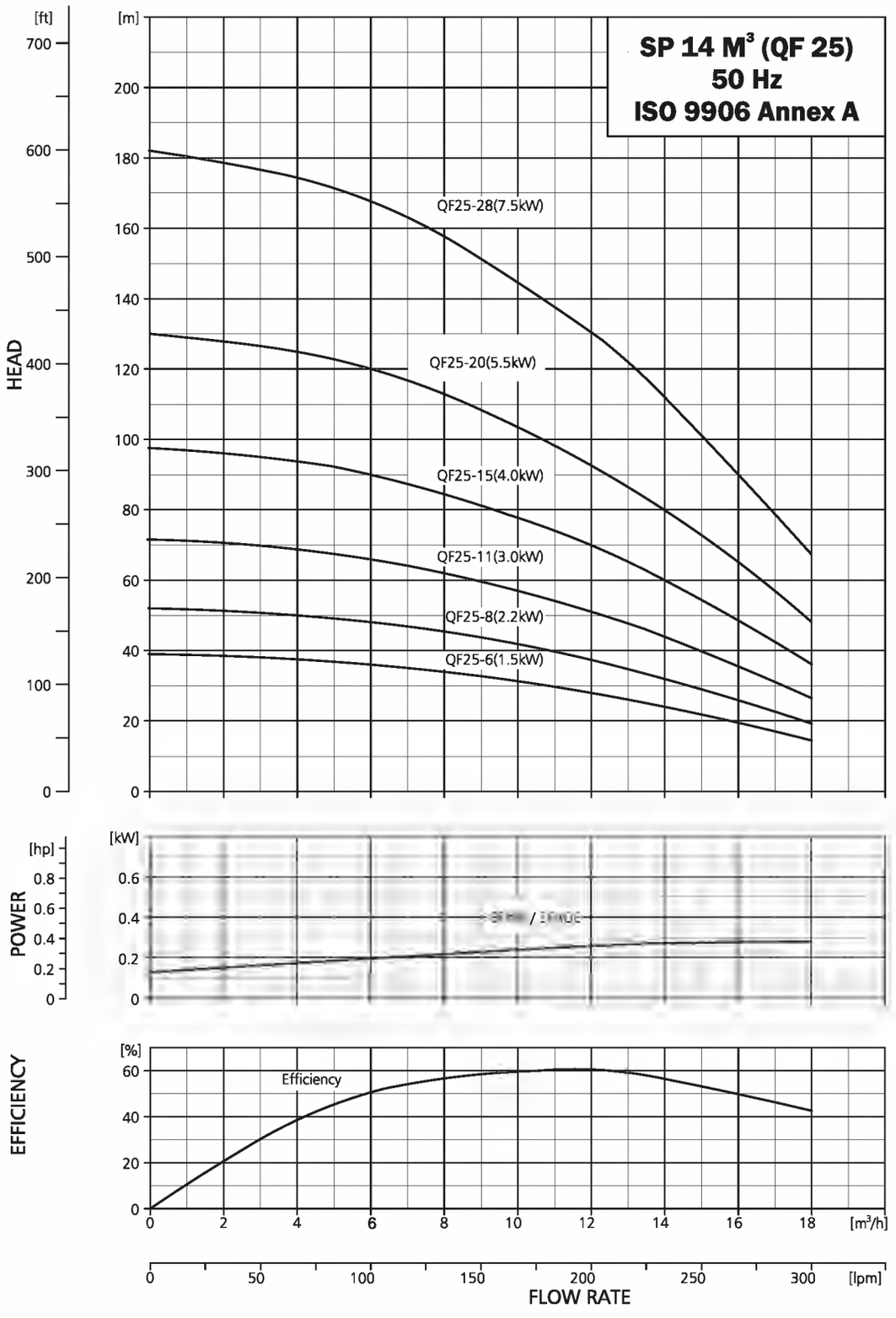
PUMP TYPE	MOTOR		DIMENSIONS (MM)							NET WEIGHT (KG)		
	TYPE	POWER (kW)	C	B		A		D	E	PUMP	MOTOR	
				1x230V	3x220V 3x400V	1x230V	3x220V 3x400V				1x230V	3x220V 3x400V
QF 20-4	PREMIUM 100	1.1	445	340	292	785	737	95	101	6	13	11
QF 20-5	PREMIUM 100	1.1	510	340	292	850	802	95	101	6	13	11
QF 20-7	PREMIUM 100	1.5	640	405	340	1045	980	95	101	7	15	13
QF 20-10	PREMIUM 100	2.2	835	482	405	1317	1240	95	101	8	17	15
QF 20-13	PREMIUM 100	3	1030	-	482	-	1512	95	101	11	-	17
QF 20-17	PREMIUM 101	4	1290	-	579	-	1869	95	101	14	-	23
QF 20-23	PREMIUM 101	5.5	1680	-	693	-	2373	95	101	19	-	29
QF 20-31	PREMIUM 101	7.5	2200	-	770	-	2970	95	101	24	-	33
QF 20-23	MATASF 150	5.5	1750	-	699	-	2449	145	143	19	-	48
QF 20-31	MATASF 150	7.5	2270	-	719	-	2989	145	143	24	-	50

* Motor type may change as per requirement .

PERFORMANCE TABLE QF 20

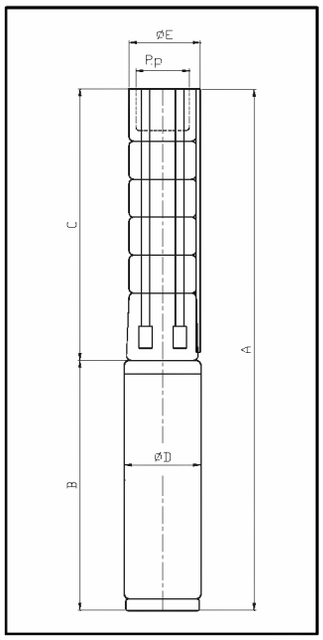
QF-20				DISCHARGE (Q)								
				m^3/h		0	2	4	6	8	10	12
				l/min.		0	33.4	66.8	100.1	133.6	167	200.1
MODEL	CONNE -CTION	MATERIAL CODE		MOTOR RATING		TOTAL HEAD IN (m)						
		4x4	6x4	[kW]	[HP]							
QF 20 - 4	Rp2	9000002644	-	0.75	1	26	24	23	23	22	20	18
QF 20 - 5		9000011470	-	1.1	1.5	32	31	29	28	27	25	23
QF 20 - 7		9000011471	-	1.5	2	44	43	41	40	38	35	32
QF 20 - 10		9000011862	-	2.2	3	63	61	59	57	53	50	43
QF 20 - 13		9000011473	-	3	4	82	78	76	74	69	65	57
QF 20 - 17		9000011861	-	4	5.5	107	103	100	97	90	85	74
QF 20 - 23		9000011863	-	5.5	7.5	145	139	135	132	122	115	100
QF 20 - 31		9000011864	9000016485	7.5	10	195	188	182	177	165	155	135

SUBMERSIBLE PUMP QF 25



SUBMERSIBLE PUMP QF 25

DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard & motor.

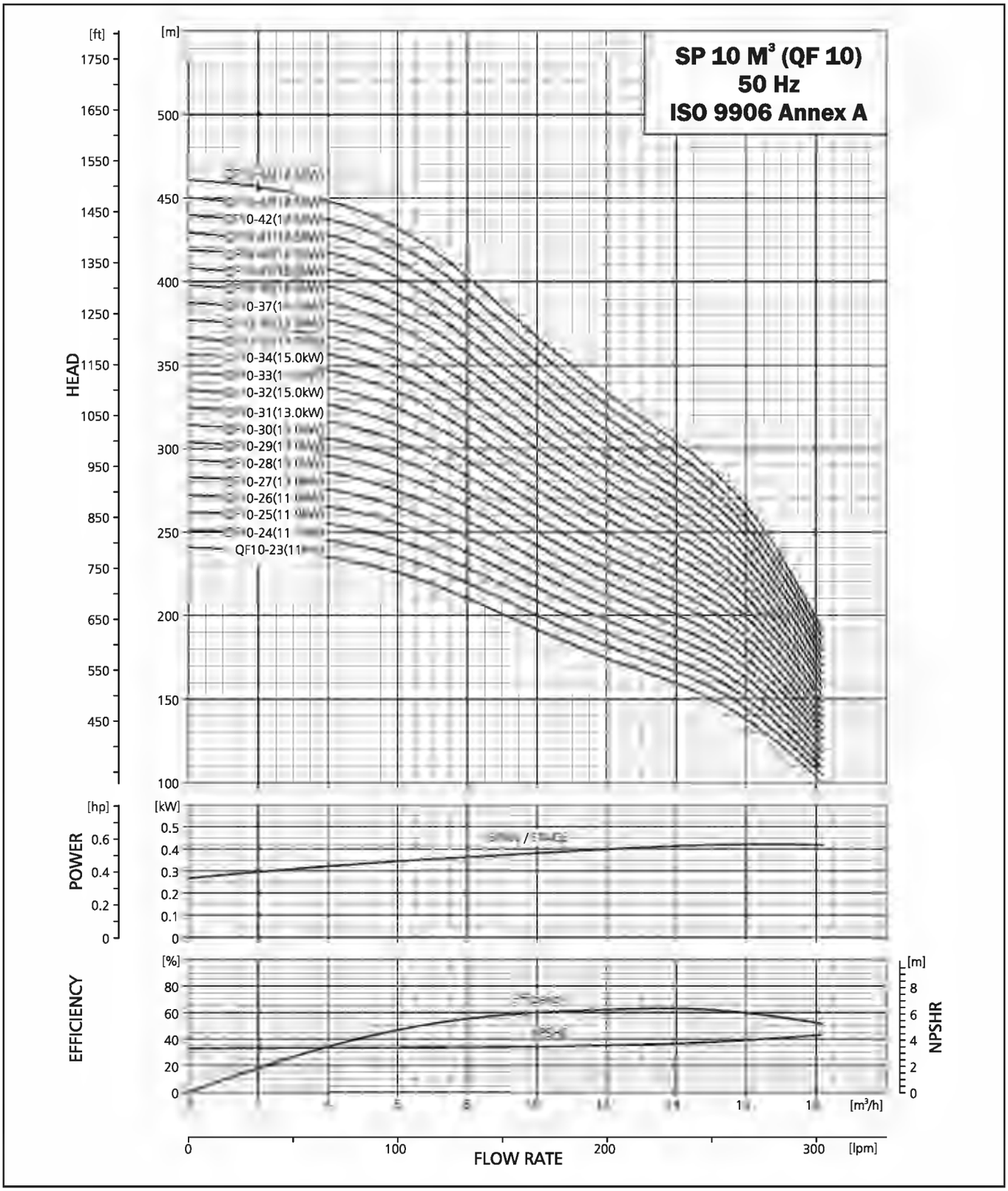
TECHNICAL DATA QF 25

PUMP TYPE	MOTOR		DIMENSIONS (MM)							NET WEIGHT (KG)		
	TYPE	POWER (kW)	C	B		A		D	E	PUMP	MOTOR	
				1x230V	3x220V 3x400V	1x230V	3x220V 3x400V				1x230V	3x220V 3x400V
QF 25-6	PREMIUM100	1.5	575	405	340	980	915	95	101	3	15	13
QF 25-8	PREMIUM100	2.2	705	482	405	1187	1110	95	101	4	17	15
QF 25-11	PREMIUM100	3	900	-	482	-	1382	95	101	4	-	17
QF 25-15	PREMIUM101	4	1160	-	579	-	1739	95	101	5	-	23
QF 25-20	PREMIUM101	5.5	1485	-	693	-	2178	95	101	7	-	29
QF 25-28	PREMIUM101	7.5	2005	-	770	-	2775	95	101	9	-	33
QF 25-20	MATASF150	5.5	1555	-	699	-	2254	145	143	7	-	48
QF 25-28	MATASF150	7.5	2075	-	719	-	2794	145	143	9	-	50

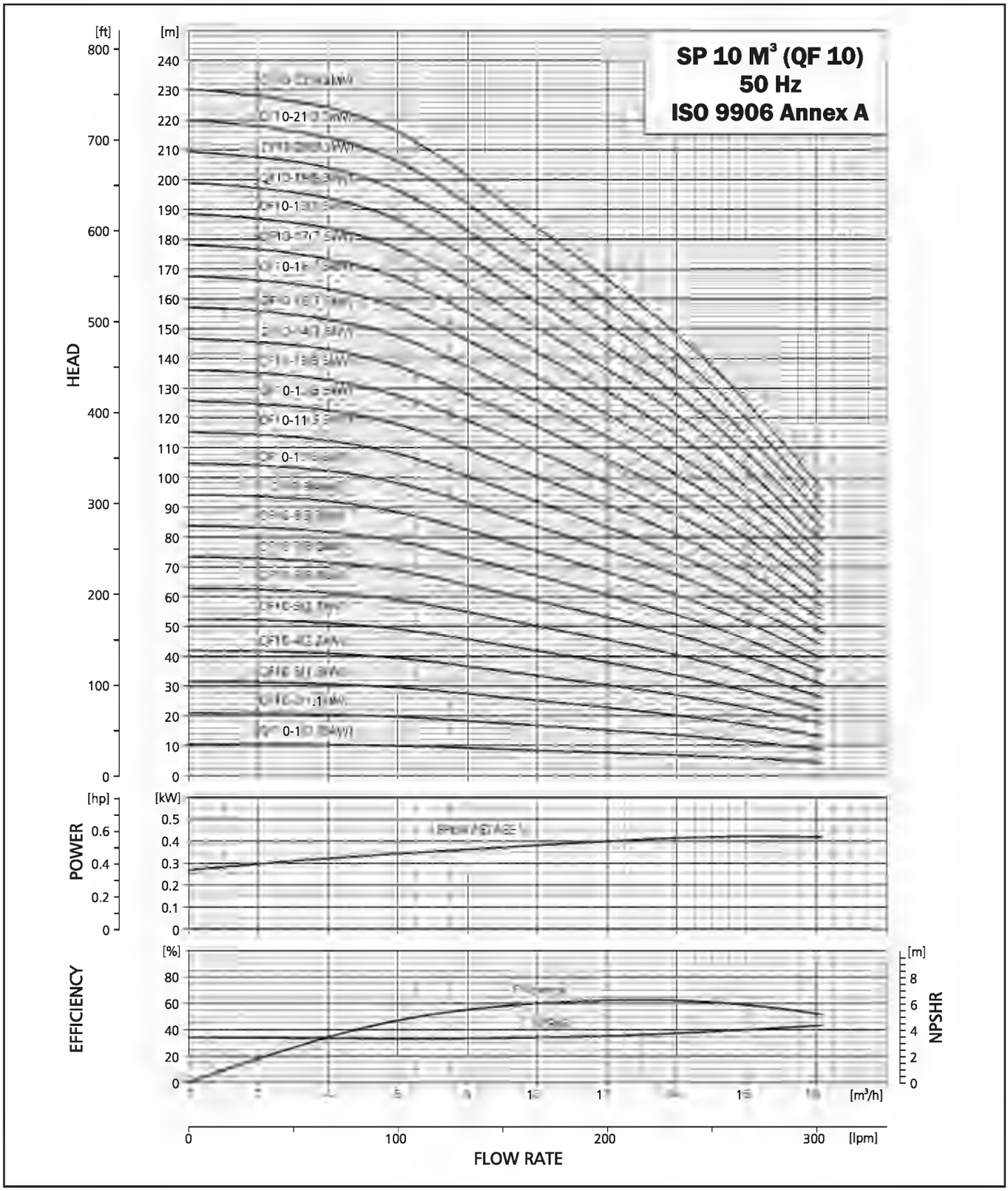
PERFORMANCE TABLE QF 25

QF-25				DISCHARGE (Q)								
				m^3/h		0	6	9	11	12	14	18
				l/min.		0	100.2	150	183.7	200.4	233.8	300.6
MODEL	CONNE -CTION	MATERIAL CODE		MOTOR RATING		TOTAL HEAD IN (m)						
		6x4	4x4	[kW]	[HP]							
QF 25 - 6	Rp 2	9000011848	-	1.5	2	39	36	32	29	28	24	14
QF 25 - 8		9000008189	-	2.2	3	52	48	42	39	37	32	19
QF 25 - 11		9000011850	-	3	4	72	66	58	54	51	44	26
QF 25 - 15		9000011852	-	4	5.5	98	90	82	74	70	60	36
QF 25 - 20		9000011854	9000012090	5.5	7.5	130	120	108	98	93	80	48
QF 25 - 28		9000011856	9000013213	7.5	10	182	168	152	137	131	112	67

SUBMERSIBLE PUMP QF 10

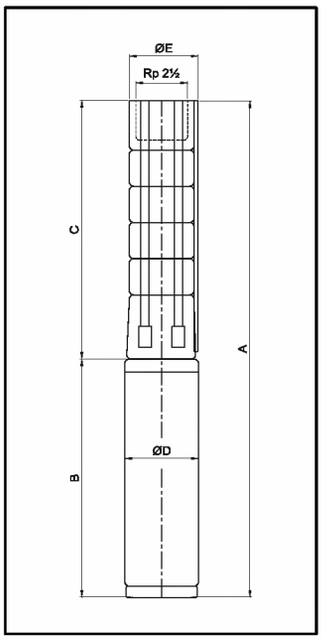


SUBMERSIBLE PUMP QF 10



SUBMERSIBLE PUMP QF 10

DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard & motor.

TECHNICAL DATA QF 10

PUMP TYPE	MOTOR		DIMENSIONS (MM)								NET WEIGHT (KG)		
	TYPE	POWER (kW)	C	B		A		D	E*	E**	PUMP	MOTOR	
				1x230V	3x220V 3x400V	1x230V	3x220V 3x400V					1x230V	3x220V 3x400V
QF 10-1	PREMIUM 100	0.55	330	271	242	601	572	95	143	-	5	10	9
QF 10-2	PREMIUM 100	1.1	390	340	292	730	682	95	143	-	6	13	11
QF 10-3	PREMIUM 100	1.5	451	405	340	856	791	95	143	-	7	15	13
QF 10-4	PREMIUM 100	2.2	511	482	405	993	916	95	143	-	9	17	15
QF 10-5	PREMIUM 100	2.2	572	482	405	1054	977	95	143	-	10	17	15
QF 10-6	PREMIUM 100	3	632	-	482	-	1114	95	143	-	11	-	17
QF 10-7	PREMIUM 100	3	693	-	482	-	1175	95	143	-	12	-	17
QF 10-8	PREMIUM 101	3.7	753	693	-	1446	-	95	143	-	14	29	-
QF 10-9	PREMIUM 101	4	814	-	579	-	1393	95	143	-	15	-	23
QF 10-10	PREMIUM 101	5.5	874	-	693	-	1567	95	143	-	16	-	29
QF 10-11	PREMIUM 101	5.5	935	-	693	-	1628	95	143	-	17	-	29
QF 10-12	PREMIUM 101	5.5	995	-	693	-	1688	95	143	-	18	-	29
QF 10-13	PREMIUM 101	5.5	1056	-	693	-	1749	95	143	-	20	-	29
QF 10-14	PREMIUM 101	7.5	1116	-	770	-	1886	95	143	-	21	-	33
QF 10-15	PREMIUM 101	7.5	1177	-	770	-	1947	95	143	-	22	-	33
QF 10-16	PREMIUM 101	7.5	1237	-	770	-	2007	95	143	-	23	-	33
QF 10-17	PREMIUM 101	7.5	1298	-	770	-	2068	95	143	-	25	-	33
QF 10-18	PREMIUM 101	7.5	1358	-	770	-	2128	95	143	-	26	-	33
QF 10-12	MATASF 150	5.5	995	-	699	-	1694	143	145	-	18	-	48
QF 10-13	MATASF 150	5.5	1056	-	699	-	1755	143	145	-	20	-	48
QF 10-14	MATASF 150	7.5	1116	-	719	-	1835	143	145	145	21	-	50
QF 10-15	MATASF 150	7.5	1177	-	719	-	1896	143	145	145	22	-	50
QF 10-16	MATASF 150	7.5	1237	-	719	-	1956	143	145	145	23	-	50
QF 10-17	MATASF 150	7.5	1298	-	719	-	2017	143	145	145	25	-	50
QF 10-18	MATASF 150	7.5	1358	-	719	-	2077	143	145	145	26	-	50
QF 10-19	MATASF 150	9.3	1419	-	749	-	2168	143	145	145	27	-	53
QF 10-20	MATASF 150	9.3	1479	-	749	-	2228	143	145	145	28	-	53
QF 10-21	MATASF 150	9.3	1540	-	749	-	2289	143	145	145	29	-	53
QF 10-22	MATASF 150	9.3	1600	-	749	-	2349	143	145	145	31	-	53
QF 10-23	MATASF 150	11	1661	-	779	-	2440	143	145	145	32	-	56
QF 10-24	MATASF 150	11	1721	-	779	-	2500	143	145	145	33	-	56
QF 10-25	MATASF 150	11	1782	-	779	-	2561	143	145	145	34	-	56
QF 10-26	MATASF 150	11	1842	-	779	-	2621	143	145	145	36	-	56
QF 10-27	MATASF 150	13	1903	-	829	-	2732	143	145	145	37	-	61
QF 10-28	MATASF 150	13	1963	-	829	-	2792	143	145	145	38	-	61
QF 10-29	MATASF 150	13	2024	-	829	-	2853	143	145	145	39	-	61
QF 10-30	MATASF 150	13	2084	-	829	-	2913	143	145	145	41	-	61
QF 10-31	MATASF 150	13	2145	-	829	-	2974	143	145	145	42	-	61
QF 10-32	MATASF 150	15	2205	-	874	-	3079	143	145	145	43	-	66
QF 10-33	MATASF 150	15	2266	-	874	-	3140	143	145	145	44	-	66
QF 10-34	MATASF 150	15	2326	-	874	-	3200	143	145	145	45	-	66
QF 10-35	MATASF 150	15	2387	-	874	-	3261	143	145	145	47	-	66
QF 10-36	MATASF 150	15	2447	-	874	-	3321	143	145	145	48	-	66
QF 10-37	MATASF 150	18.5	2508	-	919	-	3427	143	145	145	49	-	70
QF 10-38	MATASF 150	18.5	2568	-	919	-	3487	143	145	145	50	-	70
QF 10-39	MATASF 150	18.5	2629	-	919	-	3548	143	145	145	52	-	70
QF 10-40	MATASF 150	18.5	2689	-	919	-	3608	143	145	145	53	-	70
QF 10-41	MATASF 150	18.5	2750	-	919	-	3669	143	145	145	54	-	70
QF 10-42	MATASF 150	18.5	2810	-	919	-	3729	143	145	145	55	-	70
QF 10-43	MATASF 150	18.5	2871	-	919	-	3790	143	145	145	57	-	70
QF 10-44	MATASF 150	18.5	2931	-	919	-	3850	143	145	145	58	-	70

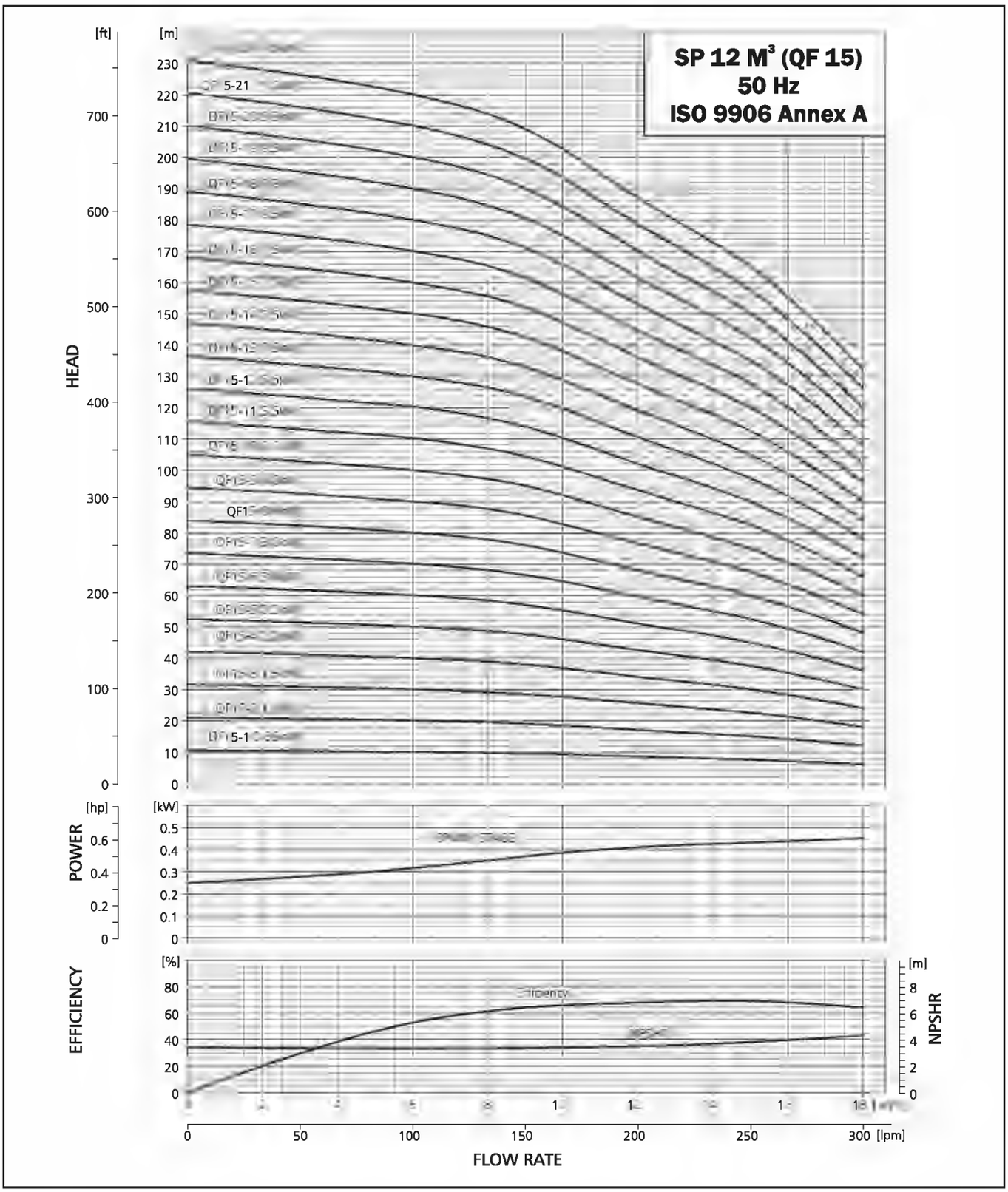
* Motor type may change as per requirement .

SUBMERSIBLE PUMP QF 10

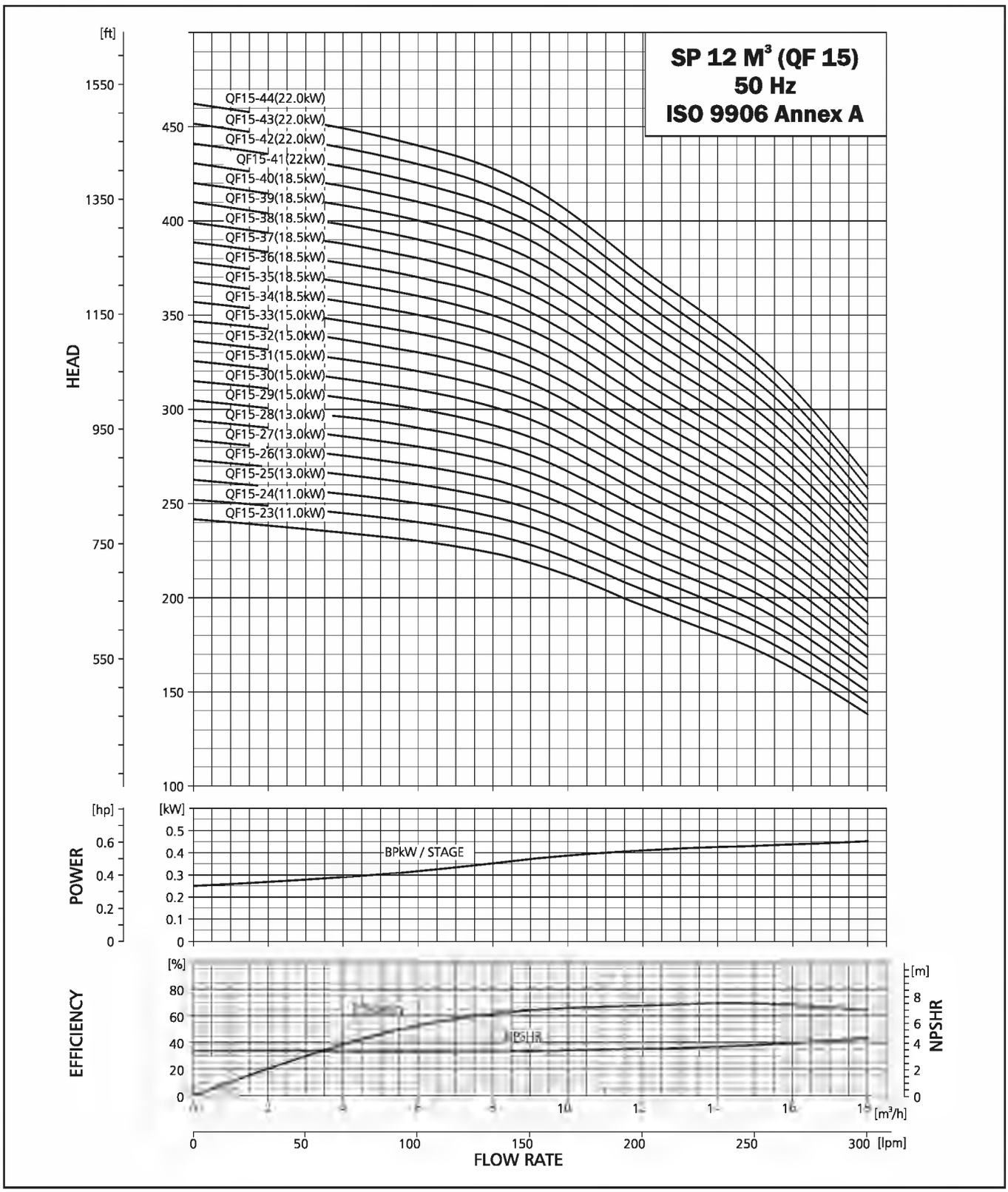
PERFORMANCE TABLE QF 10

QF-10						DISCHARGE (Q)									
				m^3/h		0	2	4	6	8	10	12	14	16	18
				l/min.		0	33.3	66.7	100	133.3	166.7	200	233.3	266.7	300
MODEL	CONNE-CTION	MATERIAL CODE		MOTOR RATING		TOTAL HEAD IN (m)									
		4x6	6x6	[kW]	[HP]										
QF-10-1		9000002716	-	0.55	0.75	10	10	10	10	9	8	8	7	6	5
QF-10-2		9000002735	-	1.1	1.5	21	21	20	20	18	17	15	14	12	9
QF-10-3		9000002746	-	1.5	2	31	31	31	29	27	25	23	20	17	13
QF-10-4		9000002757	9000002758	2.2	3	42	42	41	39	37	33	30	27	23	18
QF-10-5		9000002764	9000011844	2.2	3	52	52	51	49	46	42	38	34	29	22
QF-10-6		9000002765	9000011086	3	4	63	63	62	59	55	50	45	40	34	27
QF-10-7		9000002766	9000010656	3	4	73	73	72	69	64	59	53	47	40	31
QF-10-8		9000002767	9000002768	3.7	5	83	83	82	79	73	67	61	54	46	36
QF-10-9		9000013487	9000002770	4	5.5	94	94	92	88	82	75	68	60	51	40
QF-10-10		9000002717	9000002718	5.5	7.5	105	104	102	98	91	84	76	67	57	45
QF-10-11		9000002719	9000002718	5.5	7.5	115	114	113	108	100	92	83	74	63	49
QF-10-12		9000002720	9000002721	5.5	7.5	125	124	123	118	109	100	91	81	69	53
QF-10-13		9000002722	9000002723	5.5	7.5	135	135	133	127	119	109	98	87	74	58
QF-10-14		9000002724	9000002725	7.5	10	147	146	143	137	128	117	106	94	79	63
QF-10-15		9000002726	9000002727	7.5	10	157	156	153	147	137	125	114	101	85	67
QF-10-16		9000002728	9000002729	7.5	10	168	167	163	157	146	134	121	108	91	71
QF-10-17		9000002730	9000002731	7.5	10	177	177	173	167	155	142	129	114	97	76
QF-10-18		9000002732	9000002733	7.5	10	189	187	183	176	164	150	136	121	103	80
QF-10-19		-	9000002734	9.3	12.5	199	197	194	187	173	159	144	127	108	85
QF-10-20		-	9000002736	9.3	12.5	209	208	204	196	183	167	151	134	114	90
QF-10-21		-	9000002737	9.3	12.5	219	218	214	206	191	176	159	142	119	94
QF-10-22	Rp 2	-	9000002738	9.3	12.5	231	228	224	216	201	184	167	148	125	98
QF-10-23		-	9000002739	11	15	241	239	235	225	210	192	174	160	139	104
QF-10-24		-	9000002740	11	15	251	250	245	235	219	200	182	166	145	108
QF-10-25		-	9000002741	11	15	262	260	255	245	228	209	189	174	150	112
QF-10-26		-	9000002742	11	15	272	270	265	254	237	217	197	180	155	116
QF-10-27		-	9000002743	13	17.5	282	280	275	264	246	226	204	186	162	122
QF-10-28		-	9000002744	13	17.5	293	290	285	274	256	234	212	194	168	126
QF-10-29		-	9000002745	13	17.5	304	300	295	283	264	242	220	200	174	132
QF-10-30		-	9000002747	13	17.5	314	312	306	293	273	251	227	206	180	135
QF-10-31		-	9000002748	13	17.5	325	323	316	303	282	259	235	214	186	138
QF-10-32		-	9000002749	15	20	335	333	327	313	292	268	242	221	192	144
QF-10-33		-	9000002750	15	20	346	344	337	322	301	276	250	227	198	148
QF-10-34		-	9000002751	15	20	357	355	348	332	310	284	257	234	204	154
QF-10-35		-	9000002752	15	20	368	365	358	342	320	291	265	242	210	158
QF-10-36		-	9000002753	15	20	378	376	368	352	330	301	273	249	216	162
QF-10-37		-	9000002754	18.5	25	388	386	378	362	339	309	280	255	222	166
QF-10-38		-	9000002755	18.5	25	398	398	389	372	348	318	288	262	228	172
QF-10-39		-	9000002756	18.5	25	408	408	399	382	358	326	295	269	234	176
QF-10-40		-	9000002759	18.5	25	419	418	409	392	366	334	303	276	240	181
QF-10-41		-	9000002760	18.5	25	429	428	419	401	375	341	311	284	248	185
QF-10-42		-	9000002761	18.5	25	440	438	429	412	383	351	319	289	252	189
QF-10-43		-	9000002762	18.5	25	450	448	439	421	392	359	326	296	260	192
QF-10-44		-	9000002763	18.5	25	460	458	449	431	401	368	333	304	265	198

SUBMERSIBLE PUMP QF 15

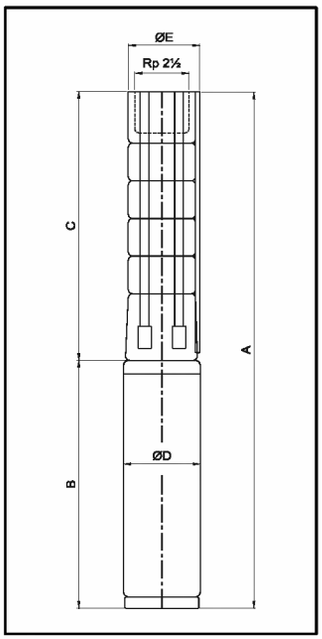


SUBMERSIBLE PUMP QF 15



SUBMERSIBLE PUMP QF 15

DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard & motor.

TECHNICAL DATA QF 15

PUMP TYPE	MOTOR		DIMENSIONS (MM)								NET WEIGHT (KG)		
	TYPE	POWER (kW)	C	B		A		D	E*	E**	PUMP	MOTOR	
				1x230V	3x220V 3x400V	1x230V	3x220V 3x400V					1x230V	3x220V 3x400V
QF 15-1	PREMIUM 100	0.55	330	271	242	601	572	95	143	-	5	10	9
QF 15-2	PREMIUM 100	1.1	390	340	292	730	682	95	143	-	6	13	11
QF 15-3	PREMIUM 100	1.5	451	405	340	856	791	95	143	-	7	15	13
QF 15-4	PREMIUM 100	2.2	511	482	405	993	916	95	143	-	9	17	15
QF 15-5	PREMIUM 100	2.2	572	482	405	1054	977	95	143	-	10	17	15
QF 15-6	PREMIUM 100	3	632	-	482	-	1114	95	143	-	11	-	17
QF 15-7	PREMIUM 100	3	693	-	482	-	1175	95	143	-	12	-	17
QF 15-8	PREMIUM 101	4	753	-	579	-	1332	95	143	-	14	-	23
QF 15-9	PREMIUM 101	4	814	-	579	-	1393	95	143	-	15	-	23
QF 15-10	PREMIUM 101	5.5	874	-	693	-	1567	95	143	-	16	-	29
QF 15-11	PREMIUM 101	5.5	935	-	693	-	1628	95	143	-	17	-	29
QF 15-12	PREMIUM 101	5.5	995	-	693	-	1688	95	143	-	18	-	29
QF 15-13	PREMIUM 101	7.5	1056	-	770	-	1826	95	143	-	20	-	33
QF 15-14	PREMIUM 101	7.5	1116	-	770	-	1886	95	143	-	21	-	33
QF 15-15	PREMIUM 101	7.5	1177	-	770	-	1947	95	143	-	22	-	33
QF 15-16	PREMIUM 101	7.5	1237	-	770	-	2007	95	143	-	23	-	33
QF 15-11	MATASF 150	5.5	935	-	699	-	1634	145	143	-	17	-	48
QF 15-12	MATASF 150	5.5	995	-	699	-	1694	145	143	-	18	-	48
QF 15-13	MATASF 150	7.5	1056	-	719	-	1775	145	143	145	20	-	50
QF 15-14	MATASF 150	7.5	1116	-	719	-	1835	145	143	145	21	-	50
QF 15-15	MATASF 150	7.5	1177	-	719	-	1896	145	143	145	22	-	50
QF 15-16	MATASF 150	7.5	1237	-	719	-	1956	145	143	145	23	-	50
QF 15-17	MATASF 150	9.3	1298	-	749	-	2047	145	143	145	25	-	53
QF 15-18	MATASF 150	9.3	1358	-	749	-	2107	145	143	145	26	-	53
QF 15-19	MATASF 150	9.3	1419	-	749	-	2168	145	143	145	27	-	53
QF 15-20	MATASF 150	9.3	1479	-	749	-	2228	145	143	145	28	-	53
QF 15-21	MATASF 150	11	1540	-	779	-	2319	145	143	145	29	-	56
QF 15-22	MATASF 150	11	1600	-	779	-	2379	145	143	145	31	-	56
QF 15-23	MATASF 150	11	1661	-	779	-	2440	145	143	145	32	-	56
QF 15-24	MATASF 150	11	1721	-	779	-	2500	145	143	145	33	-	56
QF 15-25	MATASF 150	13	1782	-	829	-	2611	145	143	145	34	-	61
QF 15-26	MATASF 150	13	1842	-	829	-	2671	145	143	145	36	-	61
QF 15-27	MATASF 150	13	1903	-	829	-	2732	145	143	145	37	-	61
QF 15-28	MATASF 150	13	1963	-	829	-	2792	145	143	145	38	-	61
QF 15-29	MATASF 150	15	2024	-	874	-	2898	145	143	145	39	-	66
QF 15-30	MATASF 150	15	2084	-	874	-	2958	145	143	145	41	-	66
QF 15-31	MATASF 150	15	2145	-	874	-	3019	145	143	145	42	-	66
QF 15-32	MATASF 150	15	2205	-	874	-	3079	145	143	145	43	-	66
QF 15-33	MATASF 150	15	2266	-	874	-	3140	145	143	145	44	-	66
QF 15-34	MATASF 150	18.5	2326	-	919	-	3245	145	143	145	45	-	70
QF 15-35	MATASF 150	18.5	2387	-	919	-	3306	145	143	145	47	-	70
QF 15-36	MATASF 150	18.5	2447	-	919	-	3366	145	143	145	48	-	70
QF 15-37	MATASF 150	18.5	2508	-	919	-	3427	145	143	145	49	-	70
QF 15-38	MATASF 150	18.5	2568	-	919	-	3487	145	143	145	50	-	70
QF 15-39	MATASF 150	18.5	2629	-	919	-	3548	145	143	145	52	-	70
QF 15-40	MATASF 150	18.5	2689	-	919	-	3608	145	143	145	53	-	70
QF 15-41	MATASF 150	22	2750	-	1009	-	3759	145	143	145	54	-	79
QF 15-42	MATASF 150	22	2810	-	1009	-	3819	145	143	145	55	-	79
QF 15-43	MATASF 150	22	2871	-	1009	-	3880	145	143	145	57	-	79
QF 15-44	MATASF 150	22	2931	-	1009	-	3940	145	143	145	58	-	79

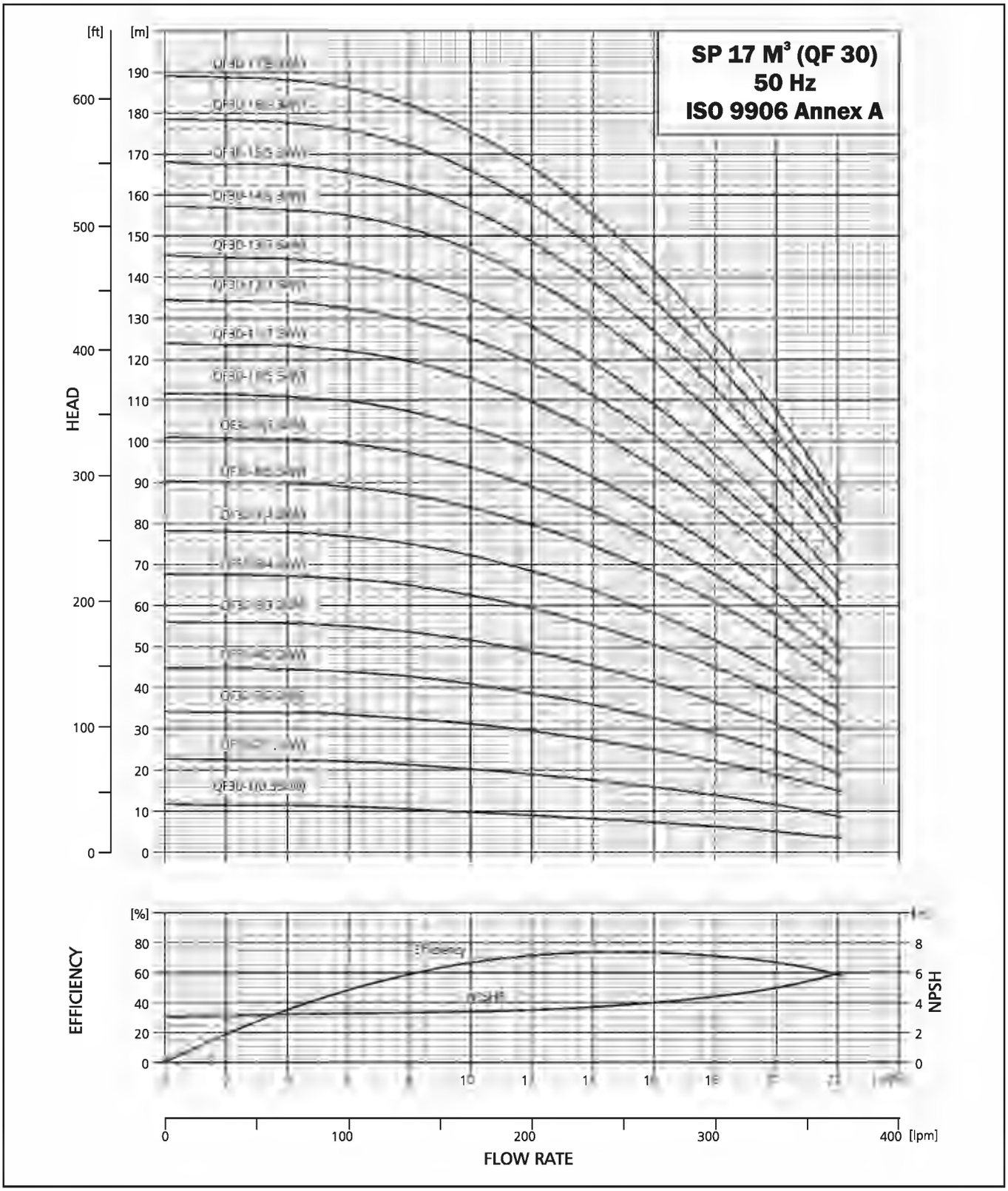
* Maximum diameter of pump with one motor cable.
** Maximum diameter of pump with two motor cable.
Motor type may change as per requirement.

SUBMERSIBLE PUMP QF 15

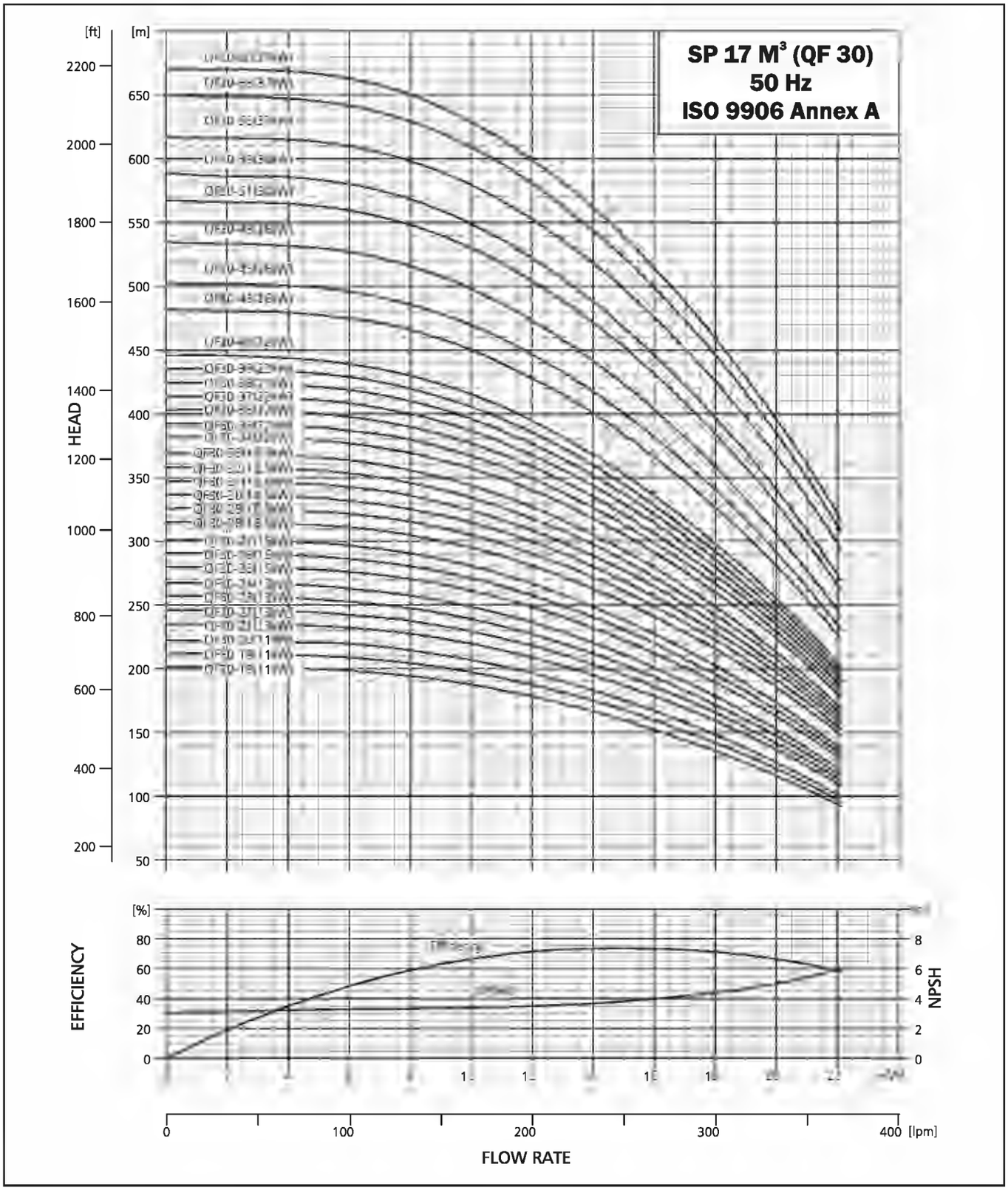
PERFORMANCE TABLE QF 15

QF-15						DISCHARGE (Q)									
				m^3/h		0	2	4	6	8	10	12	14	16	18
				l/min.		0	33.3	66.7	100	133.3	166.7	200	233.3	266.7	300
MODEL	CONNE-CTION	MATERIAL CODE		MOTOR RATING		TOTAL HEAD IN (m)									
		4x6	6x6	[kW]	[HP]										
QF15-1		9000002816	-	0.55	0.75	11	10	10	10	10	9	9	8	7	6
QF15-2		9000002834	-	1.1	1.5	21	21	20	20	19	18	17	16	14	12
QF15-3		9000002845	-	1.5	2	32	31	31	30	29	27	26	23	21	18
QF15-4		9000002856	9000018397	2.2	3	42	41	44	40	39	37	34	31	28	24
QF15-5		9000002862	9000002863	2.2	3	53	52	51	50	49	46	43	39	35	30
QF15-6		9000002864	9000011427	3	4	63	62	61	60	58	56	51	47	43	36
QF15-7		9000002865	9000011099	3	4	74	73	71	70	68	64	60	55	49	42
QF15-8		9000002866	9000002867	4	5.5	84	83	82	80	78	74	68	63	57	48
QF15-9		9000002868	9000002869	4	5.5	95	93	92	90	88	83	77	71	63	54
QF15-10		9000002817	9000002818	5.5	7.5	105	103	102	100	97	92	85	79	71	60
QF15-11		9000002819	9000002820	5.5	7.5	116	114	112	110	107	101	94	86	78	66
QF15-12		9000002821	9000002822	5.5	7.5	126	124	122	120	117	110	102	94	85	72
QF15-13		9000002823	9000002824	7.5	10	137	135	133	130	127	120	111	102	92	78
QF15-14		9000002825	9000002826	7.5	10	147	145	143	140	136	129	119	110	99	84
QF15-15		9000002827	9000002828	7.5	10	158	155	153	150	146	138	128	118	106	90
QF15-16		9000002829	9000002830	7.5	10	168	166	163	160	156	147	136	126	113	96
QF15-17		-	9000002831	9.3	12.5	179	176	174	170	165	156	145	134	120	102
QF15-18		-	9000002832	9.3	12.5	189	186	184	180	175	166	153	141	127	108
QF15-19		-	9000002833	9.3	12.5	200	197	194	190	185	175	162	149	135	114
QF15-20		-	9000002835	9.3	12.5	210	207	204	200	195	184	170	157	141	120
QF15-21		-	9000002836	11	15	221	218	214	210	204	194	179	165	148	126
QF15-22	Rp2	-	9000002837	11	15	231	228	225	220	214	202	187	173	156	132
QF15-23		-	9000002838	11	15	242	238	235	230	224	212	196	180	162	138
QF15-24		-	9000002839	11	15	252	248	245	240	233	221	204	188	170	144
QF15-25		-	9000002840	13	17.5	263	258	255	250	243	230	213	196	177	150
QF15-26		-	9000002841	13	17.5	273	268	266	260	252	240	221	205	185	156
QF15-27		-	9000002842	13	17.5	284	280	276	270	262	249	230	213	190	162
QF15-28		-	9000002843	13	17.5	294	290	286	280	272	258	238	220	198	168
QF15-29		-	9000002844	15	20	305	300	297	290	282	268	247	228	205	174
QF15-30		-	9000002846	15	20	315	310	307	300	292	277	255	236	212	180
QF15-31		-	9000002847	15	20	326	320	317	310	301	285	264	244	219	186
QF15-32		-	9000002848	15	20	336	330	327	320	311	295	272	252	226	192
QF15-33		-	9000002849	15	20	347	340	338	330	321	303	281	260	234	198
QF15-34		-	9000002850	18.5	25	357	350	347	340	330	312	289	268	240	204
QF15-35		-	9000002851	18.5	25	368	360	357	350	340	322	298	275	248	210
QF15-36		-	9000002852	18.5	25	378	370	367	360	350	332	306	283	256	216
QF15-37		-	9000002853	18.5	25	389	380	377	370	360	340	315	291	262	222
QF15-38		-	9000002854	18.5	25	399	390	388	380	370	350	323	298	269	228
QF15-39		-	9000002855	18.5	25	410	402	398	390	379	359	332	306	275	234
QF15-40		-	9000002857	18.5	25	420	412	408	400	389	368	340	315	282	240
QF15-41		-	9000002858	22	30	431	422	418	410	398	378	349	322	290	246
QF15-42		-	9000002859	22	30	441	432	429	420	408	386	357	330	297	252
QF15-43		-	9000002860	22	30	452	442	439	430	418	396	366	338	304	258
QF15-44		-	9000002861	22	30	462	452	449	440	428	405	374	346	311	264

SUBMERSIBLE PUMP QF 30

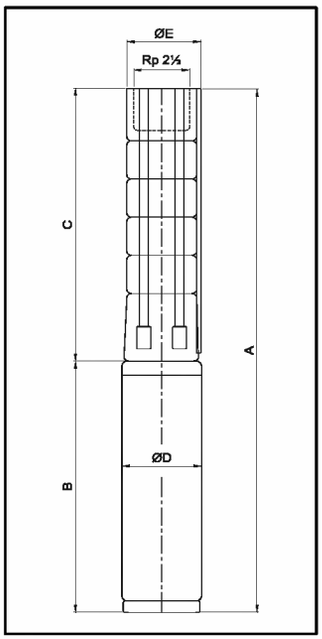


SUBMERSIBLE PUMP QF 30



SUBMERSIBLE PUMP QF 30

DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard & motor.

TECHNICAL DATA QF 30

PUMP TYPE	MOTOR		DIMENSIONS (MM)								NET WEIGHT (KG)		
	TYPE	POWER (kW)	C	B		A		D	E*	E**	PUMP	MOTOR	
				1x230V	3x220V 3x400V	1x230V	3x220V 3x400V					1x230V	3x220V 3x400V
QF30 1	PREMIUM 100	0.55	330	271	242	670	572	95	143	-	7	10	9
QF30 2	PREMIUM 100	1.1	390	340	292	802	682	95	143	-	9	13	11
QF30 3	PREMIUM 100	2.2	451	482	405	1024	856	95	143	-	10	17	15
QF30 4	PREMIUM 100	2.2	511	482	405	1084	916	95	143	-	11	17	15
QF30 5	PREMIUM 100	3	572	-	482	-	1054	95	143	-	12	-	17
QF30 6	PREMIUM 101	4	632	-	579	-	1211	95	143	-	14	-	23
QF30 7	PREMIUM 101	4	693	-	579	-	1272	95	143	-	15	-	23
QF30 8	PREMIUM 101	5.5	753	-	693	-	1446	95	143	-	16	-	29
QF30 9	PREMIUM 101	5.5	814	-	693	-	1507	95	143	-	17	-	29
QF30 10	PREMIUM 101	5.5	874	-	693	-	1567	95	143	-	18	-	29
QF30 11	PREMIUM 101	7.5	935	-	770	-	1705	95	143	-	20	-	33
QF30 12	PREMIUM 101	7.5	995	-	770	-	1765	95	143	-	21	-	33
QF30 13	PREMIUM 101	7.5	1056	-	770	-	1826	95	143	-	22	-	33
QF30 8	MATASF 150	5.5	753	-	699	-	1452	145	143	145	16	-	48
QF30 9	MATASF 150	5.5	814	-	699	-	1513	145	143	145	17	-	48
QF30 10	MATASF 150	5.5	874	-	699	-	1573	145	143	145	18	-	48
QF30 11	MATASF 150	7.5	935	-	719	-	1654	145	143	145	20	-	50
QF30 12	MATASF 150	7.5	995	-	719	-	1714	145	143	145	21	-	50
QF30 13	MATASF 150	7.5	1056	-	719	-	1775	145	143	145	22	-	50
QF30 14	MATASF 150	9.3	1116	-	749	-	1865	145	143	145	23	-	53
QF30 15	MATASF 150	9.3	1177	-	749	-	1926	145	143	145	25	-	53
QF30 16	MATASF 150	9.3	1237	-	749	-	1986	145	143	145	26	-	53
QF30 17	MATASF 150	9.3	1298	-	749	-	2047	145	143	145	27	-	53
QF30 18	MATASF 150	11	1358	-	779	-	2137	145	143	145	28	-	56
QF30 19	MATASF 150	11	1419	-	779	-	2198	145	143	145	30	-	56
QF30 20	MATASF 150	11	1479	-	779	-	2258	145	143	145	31	-	56
QF30 21	MATASF 150	13	1540	-	829	-	2369	145	143	145	32	-	61
QF30 22	MATASF 150	13	1600	-	829	-	2429	145	143	145	33	-	61
QF30 23	MATASF 150	13	1661	-	829	-	2490	145	143	145	34	-	61
QF30 24	MATASF 150	13	1721	-	829	-	2550	145	143	145	36	-	61
QF30 25	MATASF 150	15	1782	-	874	-	2656	145	143	145	37	-	66
QF30 26	MATASF 150	15	1842	-	874	-	2716	145	143	145	38	-	66
QF30 27	MATASF 150	15	1903	-	874	-	2777	145	143	145	39	-	66
QF30 28	MATASF 150	18.5	1963	-	919	-	2882	145	143	145	41	-	70
QF30 29	MATASF 150	18.5	2024	-	919	-	2943	145	143	145	42	-	70
QF30 30	MATASF 150	18.5	2084	-	919	-	3003	145	143	145	43	-	70
QF30 31	MATASF 150	18.5	2145	-	919	-	3064	145	143	145	44	-	70
QF30 32	MATASF 150	18.5	2205	-	919	-	3124	145	143	145	46	-	70
QF30 33	MATASF 150	18.5	2266	-	919	-	3185	145	143	145	47	-	70
QF30 34	MATASF 150	22	2326	-	1009	-	3335	145	143	145	48	-	79
QF30 35	MATASF 150	22	2387	-	1009	-	3396	145	143	145	49	-	79
QF30 36	MATASF 150	22	2447	-	1009	-	3456	145	143	145	50	-	79
QF30 37	MATASF 150	22	2508	-	1009	-	3517	145	143	145	52	-	79
QF30 38	MATASF 150	22	2568	-	1009	-	3577	145	143	145	53	-	79
QF30 39	MATASF 150	22	2629	-	1009	-	3638	145	143	145	54	-	79
QF30 40	MATASF 150	22	2689	-	1009	-	3698	145	143	145	55	-	79
QF30 43	MATASF 150	26	2871	-	1114	-	3985	145	143	145	59	-	90
QF30 45	MATASF 150	26	2992	-	1114	-	4106	145	143	145	62	-	90
QF30 48	MATASF 150	26	3173	-	1114	-	4287	145	143	145	65	-	90
QF30 51	MATASF 150	30	3355	-	1214	-	4569	145	143	145	69	-	100
QF30 53	MATASF 150	30	3476	-	1214	-	4690	145	143	145	71	-	100
QF30 55	MATASF 150	37	3597	-	1294	-	4891	145	143	145	74	-	106
QF30 51	MATASF 200	30	3355	-	1140	-	4495	194	194	194	69	-	130
QF30 53	MATASF 200	30	3476	-	1140	-	4616	194	194	194	71	-	130
QF30 55	MATASF 200	37	3597	-	1140	-	4737	194	194	194	74	-	145
QF30 58	MATASF 200	37	3778	-	1140	-	4918	194	194	194	78	-	145
QF30 60	MATASF 200	37	3899	-	1140	-	5039	194	194	194	80	-	145

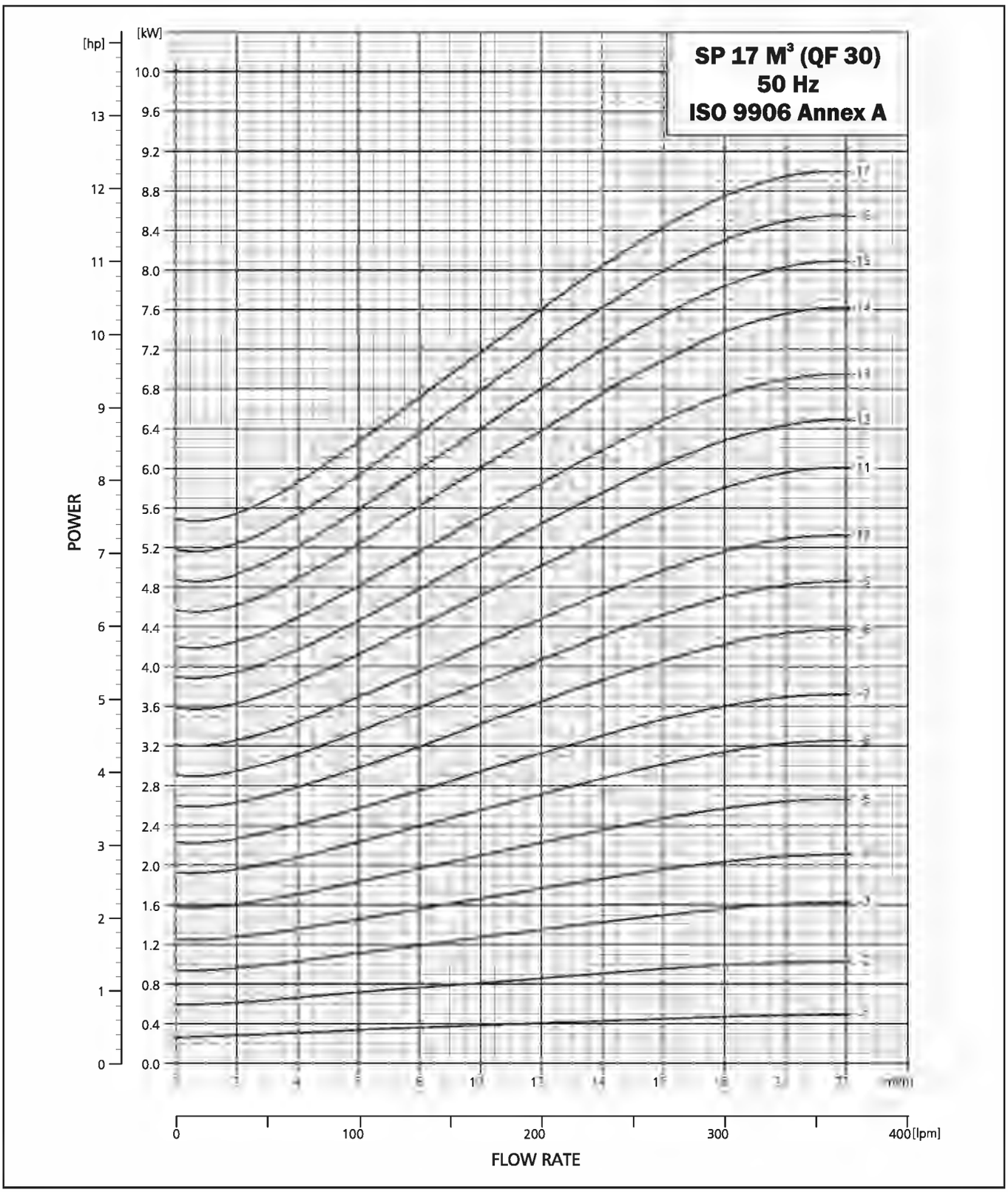
* Maximum diameter of pump with one motor cable.
** Maximum diameter of pump with two motor cable.
Motor type may change as per requirement.

SUBMERSIBLE PUMP QF 30

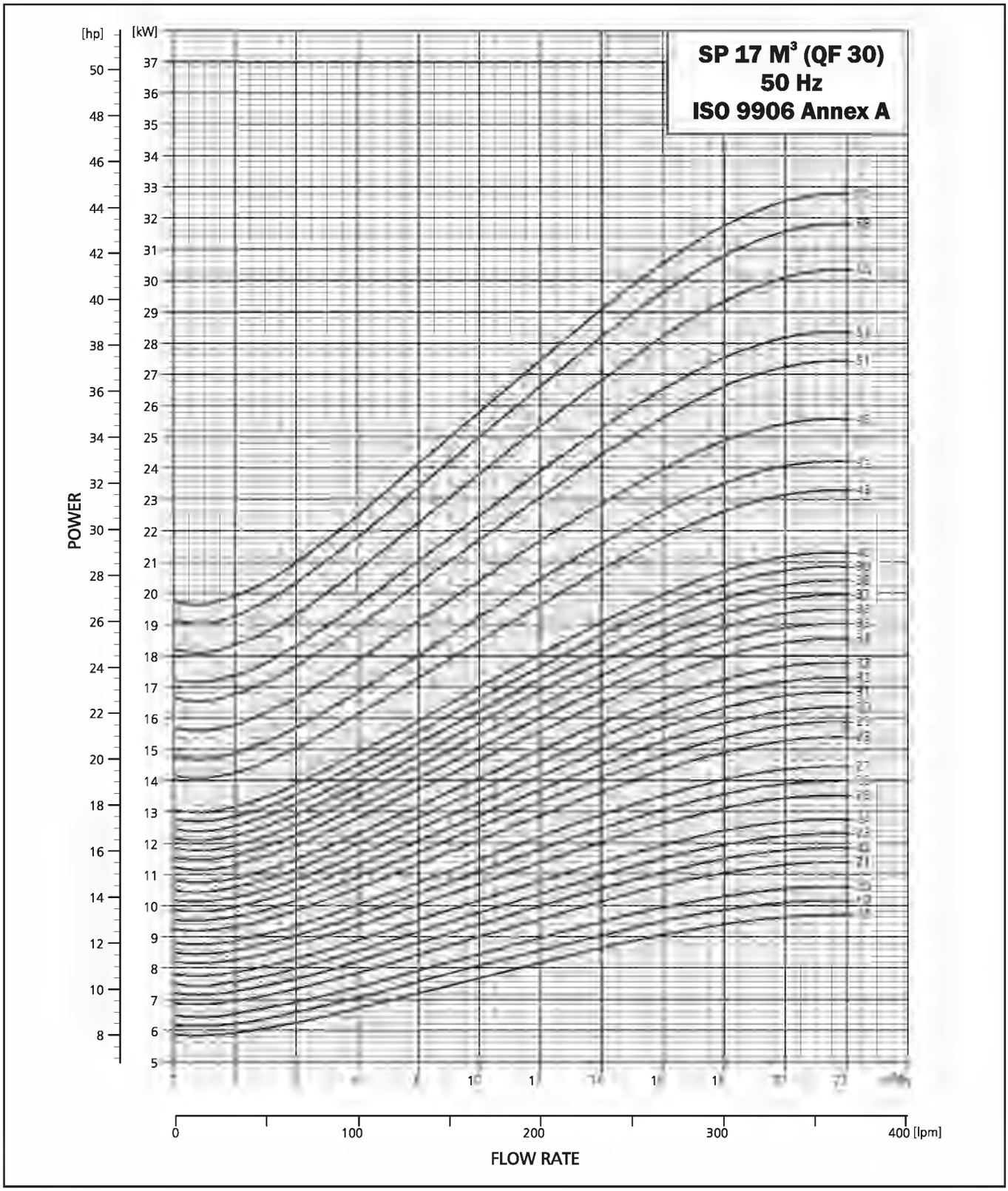
PERFORMANCE TABLE QF 30

QF-30						DISCHARGE (Q)											
				m^3/h		0	2	4	6	8	10	12	14	16	18	20	22
				l/min.		0	33.3	66.7	100	133.3	166.7	200	233.3	266.7	300	333.3	366.7
MODEL	MATERIAL CODE			MOTOR RATING		TOTAL HEAD IN (m)											
	4x6	6x6	8x6 (W.SLEAVE)	[kW]	[HP]												
QF 30-1	9000002870	-	-	0.55	0.75	12	11	11	11	10	10	9	8	7	6	5	4
QF 30-2	9000002871	-	-	1.1	1.5	23	23	22	22	21	20	19	17	16	14	12	9
QF 30-3	9000002872	9000011087	-	2.2	3	34	34	34	33	33	31	29	27	25	22	19	15
QF 30-4	9000002873	9000010928	-	2.2	3	45	45	44	44	43	41	39	36	33	29	24	19
QF 30-5	9000002874	9000002875	-	3	4	56	56	56	55	54	51	49	45	41	37	31	25
QF 30-6	9000002876	9000002877	-	4	5.5	68	67	67	66	65	63	59	55	50	45	38	31
QF 30-7	9000002879	9000002880	-	4	5.5	78	78	78	77	75	72	68	64	58	52	44	35
QF 30-8	9000002881	9000002882	-	5.5	7.5	90	90	90	89	87	84	80	74	68	61	52	42
QF 30-9	9000002883	9000002884	-	5.5	7.5	101	101	100	99	97	94	89	83	76	67	58	46
QF 30-10	9000002887	9000002888	-	5.5	7.5	112	111	111	110	107	103	98	91	83	74	63	50
QF 30-11	9000002890	9000002891	-	7.5	10	124	124	123	122	119	115	110	103	94	84	72	58
QF 30-12	9000002893	9000002894	-	7.5	10	135	134	134	132	130	125	119	111	101	90	77	62
QF 30-13	9000002896	9000002897	-	7.5	10	145	145	144	143	140	135	128	119	109	97	83	66
QF 30-14	-	9000002899	-	9.3	12.5	157	157	156	155	152	147	139	130	119	106	91	73
QF 30-15	-	9000002901	-	9.3	12.5	168	167	167	165	162	156	149	139	127	113	97	78
QF 30-16	-	9000002903	-	9.3	12.5	179	178	177	176	172	166	158	147	134	119	102	82
QF 30-17	-	9000002905	-	9.3	12.5	189	189	188	186	182	175	166	155	141	126	107	85
QF 30-18	-	9000002907	-	11	15	202	201	200	199	194	188	178	167	152	136	116	94
QF 30-19	-	9000002909	-	11	15	212	212	211	209	204	197	187	175	160	142	121	97
QF 30-20	-	9000002912	-	11	15	223	222	221	219	214	207	196	183	167	148	126	101
QF 30-21	-	9000002914	-	13	17.5	235	235	234	232	227	220	209	195	179	159	137	110
QF 30-22	-	9000002916	-	13	17.5	246	246	245	243	237	229	218	204	186	166	142	114
QF 30-23	-	9000002918	-	13	17.5	257	256	255	253	248	239	227	212	193	172	147	118
QF 30-24	-	9000002920	-	13	17.5	267	267	266	263	258	248	236	220	201	178	152	122
QF 30-25	-	9000002922	-	15	20	280	279	279	276	270	261	248	232	212	189	162	131
QF 30-26	-	9000002924	-	15	20	291	290	289	286	280	271	257	240	220	196	168	135
QF 30-27	-	9000002926	-	15	20	301	300	300	297	290	280	266	249	227	202	173	139
QF 30-28	-	9000002928	-	18.5	25	315	314	314	311	305	295	281	263	241	215	186	151
QF 30-29	-	9000002930	-	18.5	25	326	325	324	321	315	305	290	272	249	222	191	155
QF 30-30	-	9000002933	-	18.5	25	336	336	335	332	325	315	299	280	257	229	197	159
QF 30-31	-	9000002934	-	18.5	25	347	346	346	342	336	324	309	289	264	236	202	163
QF 30-32	-	9000002935	-	18.5	25	358	357	356	353	346	334	318	297	272	242	208	168
QF 30-33	-	9000002937	-	18.5	25	368	368	367	363	356	344	327	305	279	249	213	172
QF 30-34	-	9000002938	-	22	30	382	381	380	377	369	357	340	318	291	260	223	181
QF 30-35	-	9000002939	-	22	30	392	392	391	387	380	367	349	326	299	266	229	185
QF 30-36	-	9000002941	-	22	30	403	402	401	398	390	377	358	335	306	273	234	189
QF 30-37	-	9000002942	-	22	30	414	413	412	408	400	386	367	343	314	279	240	193
QF 30-38	-	9000002943	-	22	30	425	424	423	418	410	396	376	351	321	286	245	197
QF 30-39	-	9000002945	-	22	30	435	434	433	429	420	405	385	360	328	292	250	201
QF 30-40	-	9000002948	-	22	30	446	445	444	439	430	415	394	368	336	298	255	205
QF 30-43	-	9000008072	-	26	35	481	481	479	475	466	450	428	400	366	326	280	227
QF 30-45	-	9000010950	-	26	35	503	502	501	496	486	469	446	417	381	339	291	235
QF 30-48	-	9000011244	-	26	35	535	534	532	527	516	498	473	441	403	358	306	246
QF 30-51	-	-	9000002955	30	40	568	567	561	559	548	529	502	468	428	380	325	261
QF 30-53	-	-	9000002957	30	40	590	589	583	581	569	550	522	486	445	395	338	271
QF 30-55	-	-	9000002959	37	50	613	612	610	604	591	571	542	505	462	410	351	282
QF 30-58	-	-	9000002961	37	50	646	645	643	637	623	602	571	533	487	433	370	297
QF 30-60	-	-	9000002964	37	50	669	667	665	659	645	622	591	551	504	447	382	307

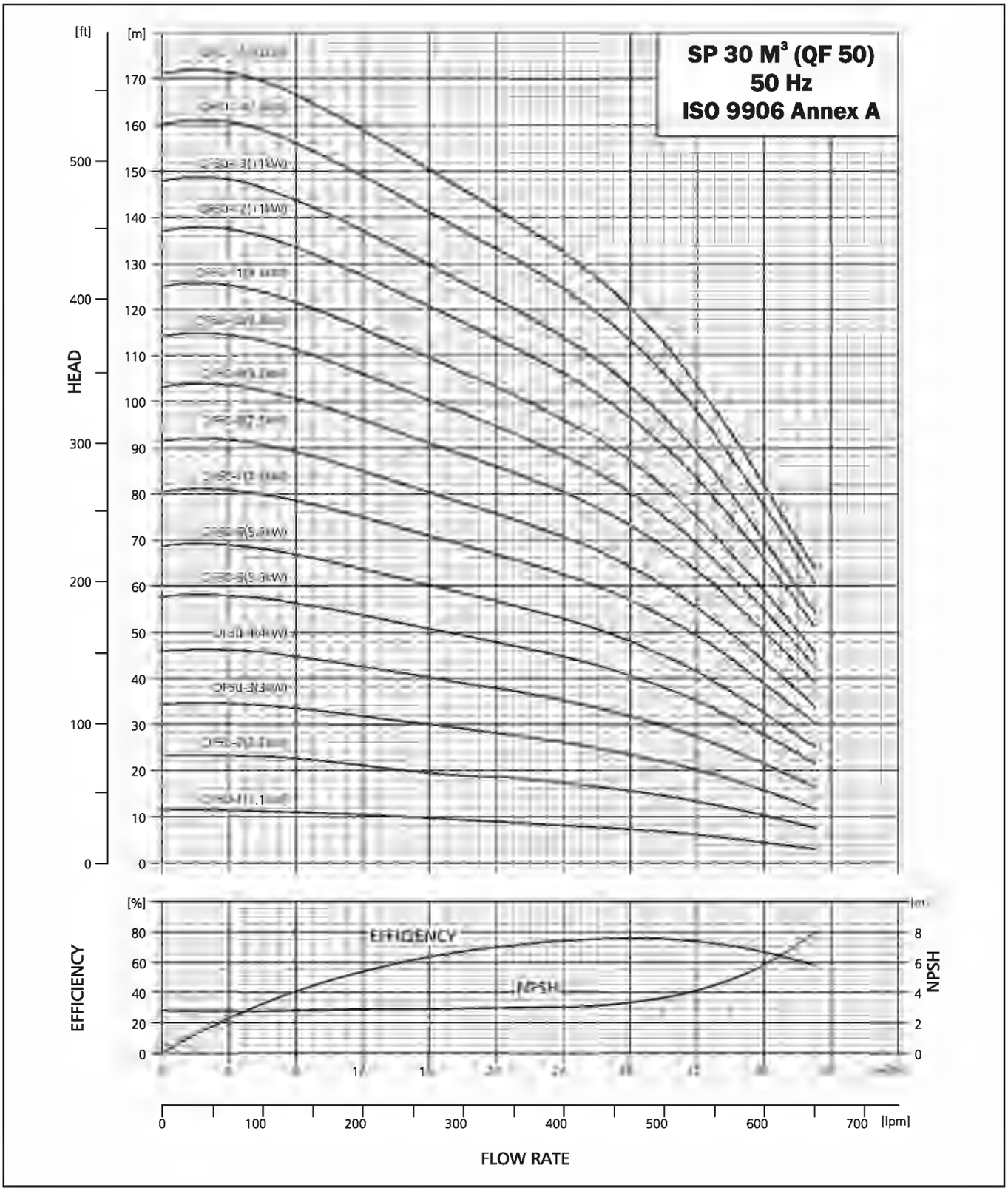
SUBMERSIBLE PUMP QF 30



SUBMERSIBLE PUMP QF 30



SUBMERSIBLE PUMP QF 50



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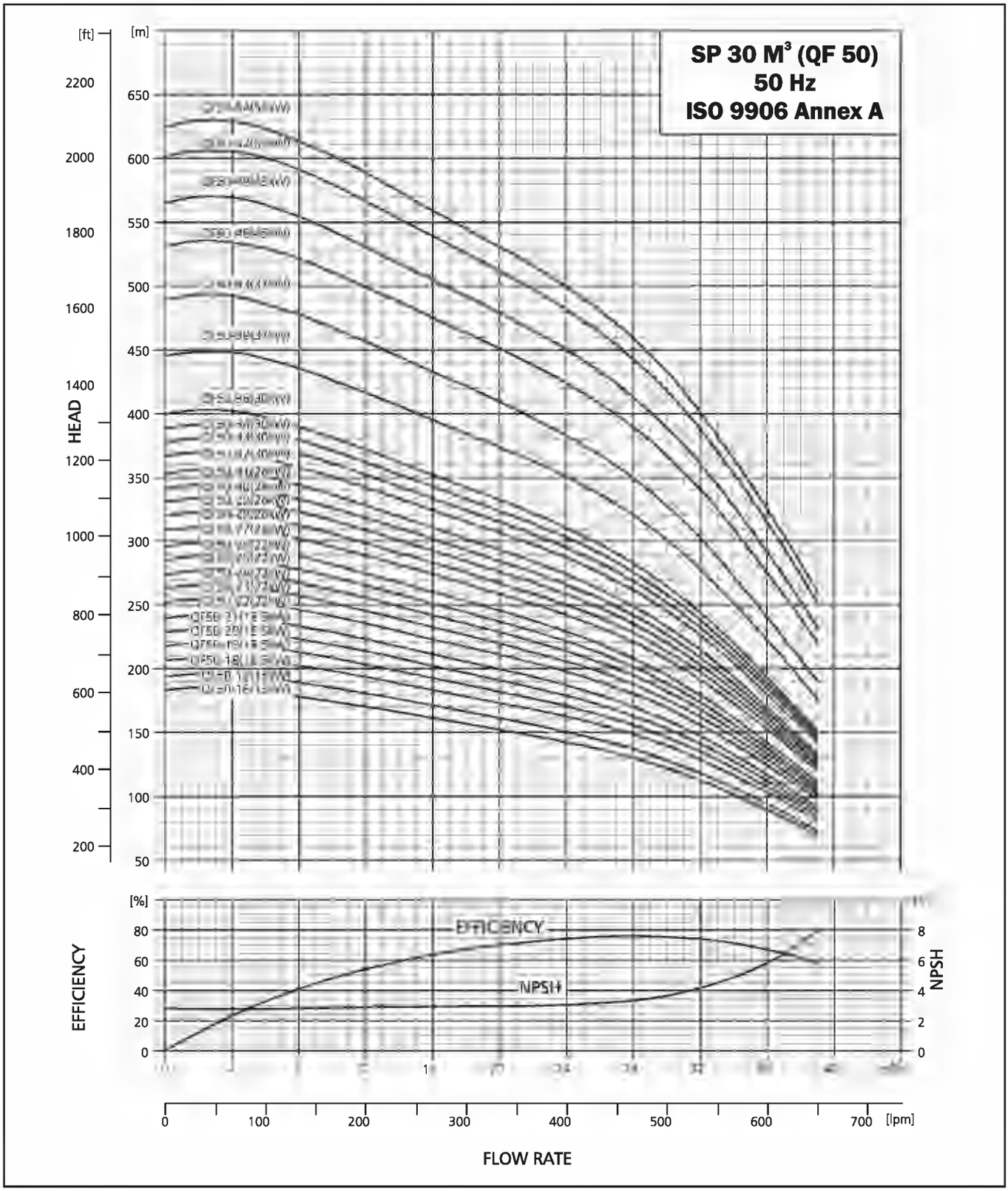
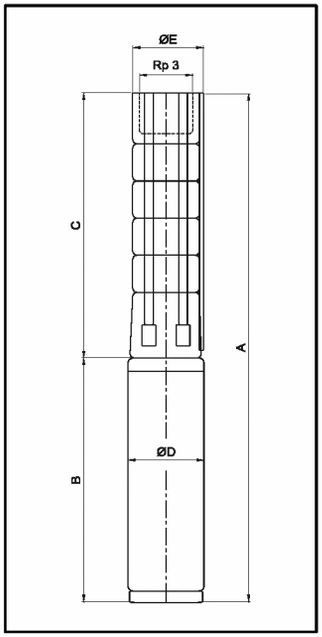


SUBMERSIBLE PUMP QF 50

DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard & motor.

TECHNICAL DATA QF 50

PUMP TYPE	MOTOR		DIMENSIONS (MM)								NET WEIGHT (KG)		
	TYPE	POWER (kW)	C	B		A		D	E*	E**	PUMP	MOTOR	
				1x230V	3x220V 3x400V	1x230V	3x220V 3x400V					1x230V	3x220V 3x400V
QF50 1	PREMIUM 100	1.1	366	340	292	706	658	95	143	-	8	13	11
QF50 2	PREMIUM 100	2.2	462	482	340	944	802	95	143	-	10	17	15
QF50 3	PREMIUM 100	3	558	-	482	-	1040	95	143	-	12	-	17
QF50 4	PREMIUM 101	4	654	-	579	-	1233	95	143	-	14	-	23
QF50 5	PREMIUM 101	5.5	750	-	693	-	1443	95	143	-	16	-	29
QF50 6	PREMIUM 101	5.5	846	-	693	-	1539	95	143	-	18	-	29
QF50 7	PREMIUM 101	7.5	942	-	770	-	1712	95	143	-	20	-	33
QF50 8	PREMIUM 101	7.5	1038	-	770	-	1808	95	143	-	22	-	33
QF50 5	MATASF 150	5.5	750	-	699	-	1449	145	143	145	16	-	48
QF50 6	MATASF 150	5.5	846	-	699	-	1545	145	143	145	18	-	48
QF50 7	MATASF 150	7.5	942	-	719	-	1661	145	143	145	20	-	50
QF50 8	MATASF 150	7.5	1038	-	719	-	1757	145	143	145	22	-	50
QF50 9	MATASF 150	9.3	1134	-	749	-	1883	145	143	145	24	-	53
QF50 10	MATASF 150	9.3	1230	-	749	-	1979	145	143	145	25	-	53
QF50 11	MATASF 150	9.3	1326	-	749	-	2075	145	143	145	27	-	53
QF50 12	MATASF 150	11	1422	-	779	-	2201	145	143	145	29	-	56
QF50 13	MATASF 150	11	1518	-	779	-	2297	145	143	145	31	-	56
QF50 14	MATASF 150	13	1614	-	829	-	2443	145	143	145	33	-	61
QF50 15	MATASF 150	13	1710	-	829	-	2539	145	143	145	35	-	61
QF50 16	MATASF 150	15	1806	-	874	-	2680	145	143	145	37	-	66
QF50 17	MATASF 150	15	1902	-	874	-	2776	145	143	145	39	-	66
QF50 18	MATASF 150	18.5	1998	-	919	-	2917	145	143	145	41	-	70
QF50 19	MATASF 150	18.5	2094	-	919	-	3013	145	143	145	42	-	70
QF50 20	MATASF 150	18.5	2190	-	919	-	3109	145	143	145	44	-	70
QF50 21	MATASF 150	18.5	2286	-	919	-	3205	145	143	145	46	-	70
QF50 22	MATASF 150	22	2382	-	1009	-	3391	145	143	145	48	-	79
QF50 23	MATASF 150	22	2478	-	1009	-	3487	145	143	145	50	-	79
QF50 24	MATASF 150	22	2574	-	1009	-	3583	145	143	145	52	-	79
QF50 25	MATASF 150	22	2670	-	1009	-	3679	145	143	145	54	-	79
QF50 26	MATASF 150	22	2766	-	1009	-	3775	145	143	145	56	-	79
QF50 27	MATASF 150	26	2862	-	1114	-	3976	145	143	145	58	-	90
QF50 28	MATASF 150	26	2958	-	1114	-	4072	145	143	145	59	-	90
QF50 29	MATASF 150	26	3054	-	1114	-	4168	145	143	145	61	-	90
QF50 30	MATASF 150	26	3150	-	1114	-	4264	145	143	145	63	-	90
QF50 31	MATASF 150	26	3246	-	1114	-	4360	145	143	145	65	-	90
QF50 32	MATASF 150	30	3342	-	1214	-	4556	145	143	145	67	-	100
QF50 33	MATASF 150	30	3438	-	1214	-	4652	145	143	145	69	-	100
QF50 34	MATASF 150	30	3534	-	1214	-	4748	145	143	145	71	-	100
QF50 35	MATASF 150	30	3630	-	1214	-	4844	145	143	145	73	-	100
QF50 32	MATASF 200	30	3342	-	1140	-	4482	194	194	194	67	-	172
QF50 33	MATASF 200	30	3438	-	1140	-	4578	194	194	194	69	-	172
QF50 34	MATASF 200	30	3534	-	1140	-	4674	194	194	194	71	-	172
QF50 35	MATASF 200	30	3630	-	1140	-	4770	194	194	194	73	-	172
QF50 39	MATASF 200	37	4014	-	1140	-	5154	194	194	194	80	-	172
QF50 43	MATASF 200	37	4398	-	1140	-	5538	194	194	194	88	-	172
QF50 46	MATASF 200	45	4686	-	1230	-	5916	194	194	194	93	-	188
QF50 49	MATASF 200	45	4974	-	1230	-	6204	194	194	194	99	-	188
QF50 52	MATASF 200	55	5262	-	1340	-	6602	194	194	194	105	-	211
QF50 54	MATASF 200	55	5454	-	1340	-	6794	194	194	194	109	-	211

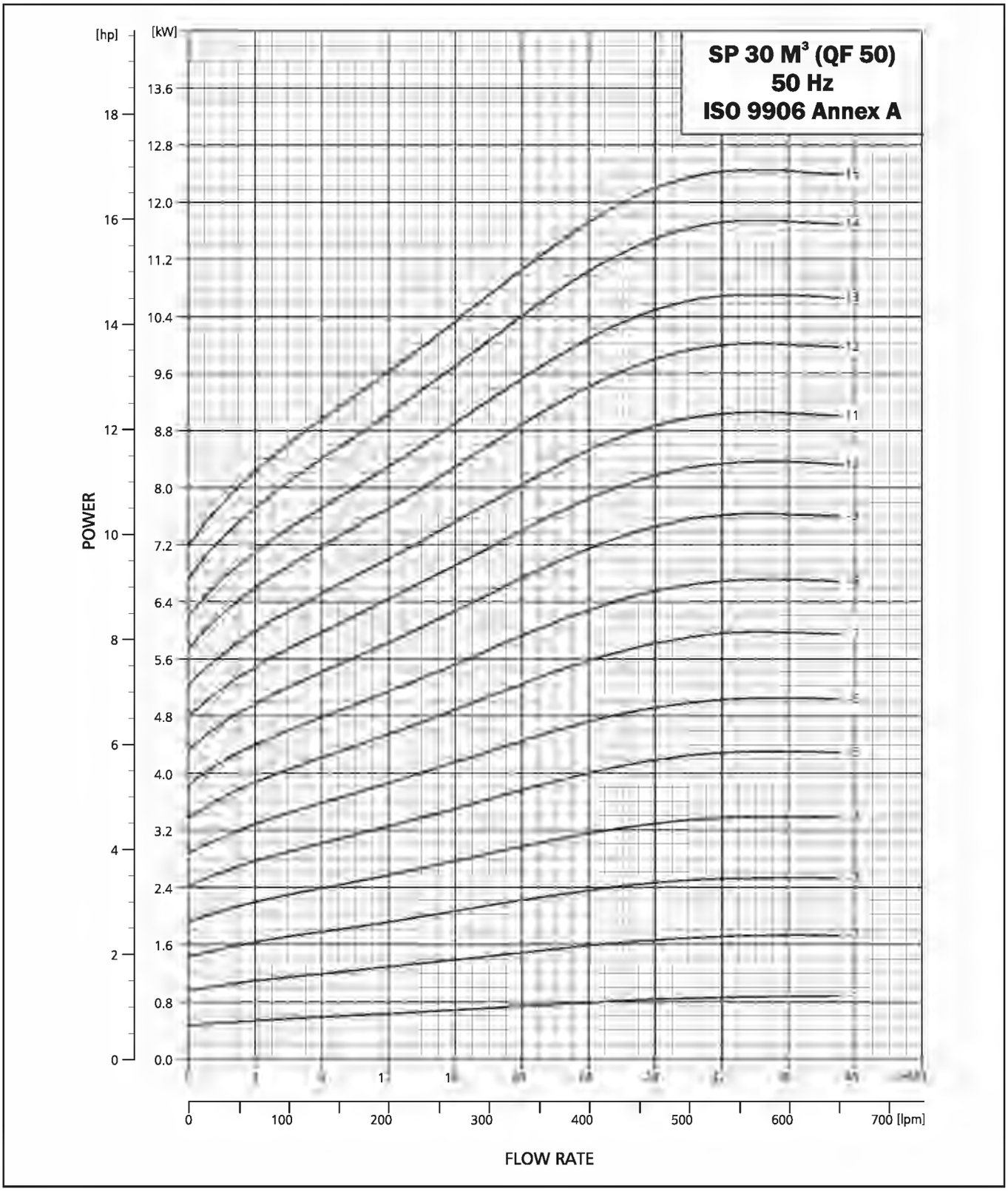
* Maximum diameter of pump with one motor cable.
** Maximum diameter of pump with two motor cable.
Motor type may change as per requirement.

SUBMERSIBLE PUMP QF 50

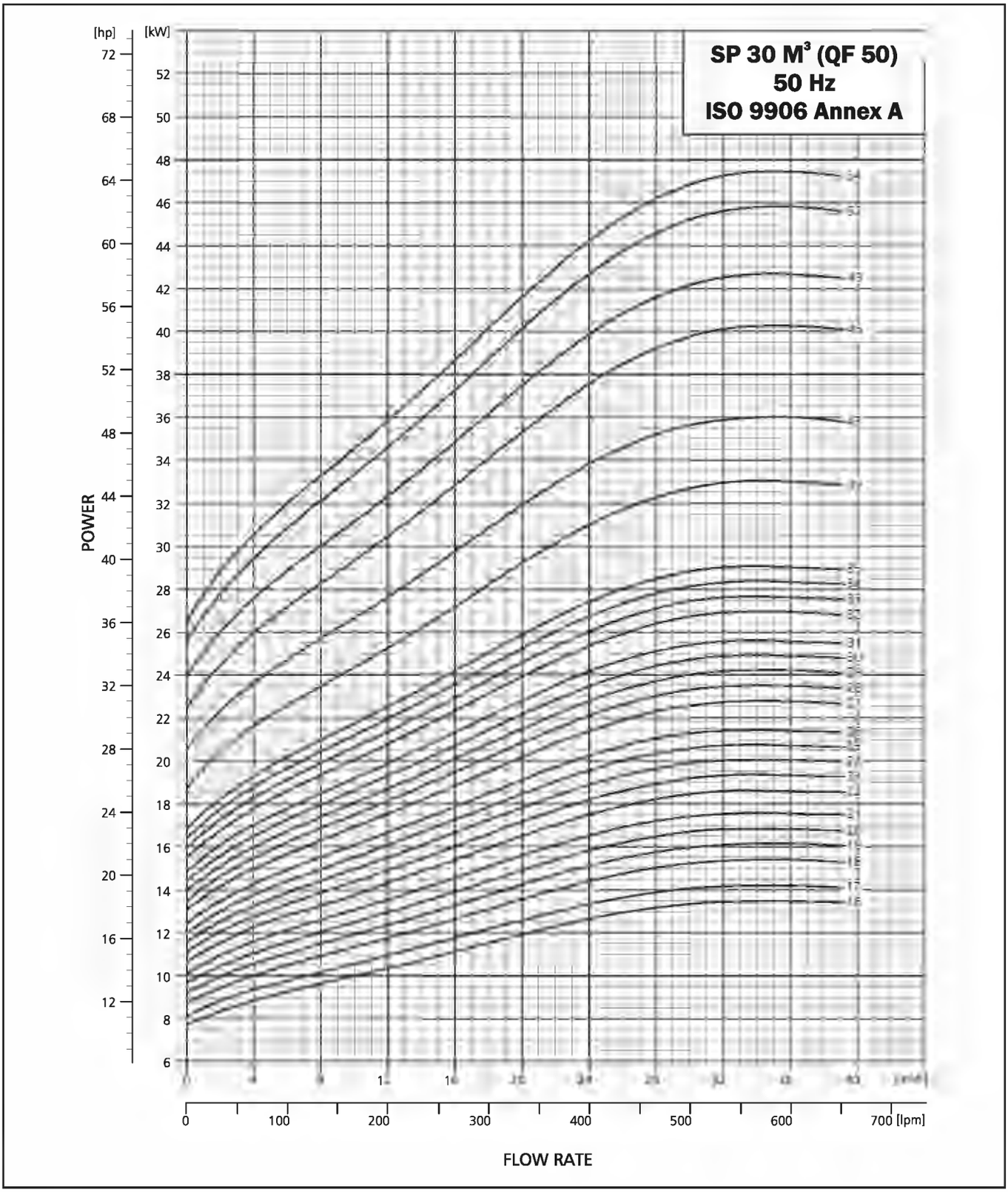
PERFORMANCE TABLE QF 50

QF-50						DISCHARGE (Q)									
				m³/h		0	4	8	12	16	20	24	28	32	39
				l/min.		0	66.7	133.3	200	266.7	333.3	400	466.7	533.3	650
MODEL	MATERIAL CODE			MOTOR RATING		TOTAL HEAD IN (m)									
	4x6	6x6	8x6	[kW]	[HP]										
QF 50 - 1	9000002971	-	-	1.1	1.5	11	11	11	10	10	9	8	7	6	3
QF 50 - 2	9000002972	9000002973	-	2.2	3	23	23	23	21	20	19	17	16	13	8
QF 50 - 3	9000002974	9000002975	-	3	4	35	35	33	32	30	28	26	23	20	12
QF 50 - 4	9000002976	9000002977	-	4	5.5	46	46	45	43	40	38	35	32	27	16
QF 50 - 5	9000002978	9000002979	-	5.5	7.5	58	58	56	54	51	48	45	41	35	22
QF 50 - 6	9000002980	9000002981	-	5.5	7.5	69	69	67	64	60	57	53	48	41	25
QF 50 - 7	9000002982	9000002983	-	7.5	10	80	81	79	75	71	67	63	57	49	31
QF 50 - 8	9000002984	9000002985	-	7.5	10	91	92	89	85	80	76	71	64	55	34
QF 50 - 9	-	9000002986	-	9.3	12.5	103	104	101	96	91	86	80	73	63	39
QF 50 - 10	-	9000002989	-	9.3	12.5	114	115	111	106	100	95	88	80	69	43
QF 50 - 11	-	9000002991	-	9.3	12.5	125	125	122	116	110	103	96	87	75	46
QF 50 - 12	-	9000002993	-	11	15	137	137	134	127	121	114	106	97	83	51
QF 50 - 13	-	9000002995	-	11	15	148	148	144	137	130	122	114	103	89	55
QF 50 - 14	-	9000002997	-	13	17.5	160	161	156	149	141	133	125	113	98	61
QF 50 - 15	-	9000002999	-	13	17.5	171	171	167	159	150	142	133	120	104	64
QF 50 - 16	-	9000003001	-	15	20	183	184	179	171	162	153	143	130	112	70
QF 50 - 17	-	9000003003	-	15	20	194	195	189	180	171	161	151	137	118	74
QF 50 - 18	-	9000003005	-	18.5	25	207	208	202	193	183	173	163	148	129	82
QF 50 - 19	-	9000003007	-	18.5	25	218	219	213	203	193	182	171	156	135	85
QF 50 - 20	-	9000003011	-	18.5	25	229	230	223	213	202	191	179	163	141	89
QF 50 - 21	-	9000003013	-	18.5	25	240	241	234	223	212	200	187	170	147	92
QF 50 - 22	-	9000003015	-	22	30	252	253	246	235	223	211	198	180	156	99
QF 50 - 23	-	9000003017	-	22	30	263	264	257	245	233	220	206	188	162	102
QF 50 - 24	-	9000003018	-	22	30	274	275	268	255	242	228	214	195	168	105
QF 50 - 25	-	9000003022	-	22	30	285	286	278	265	251	237	221	201	174	108
QF 50 - 26	-	9000003025	-	22	30	296	297	288	275	260	245	229	208	179	111
QF 50 - 27	-	9000003029	-	26	35	309	310	302	288	274	259	242	221	191	121
QF 50 - 28	-	9000003033	-	26	35	320	321	313	298	283	267	250	228	197	124
QF 50 - 29	-	9000003037	-	26	35	331	332	323	308	292	276	258	235	203	127
QF 50 - 30	-	9000003040	-	26	35	342	343	333	318	301	284	266	242	209	130
QF 50 - 31	-	9000003043	-	26	35	353	354	344	328	310	293	274	249	215	133
QF 50 - 32	-	9000003046	9000003047	30	40	367	368	358	342	324	306	287	262	227	143
QF 50 - 33	-	9000003050	9000003052	30	40	378	379	369	352	334	315	295	269	232	146
QF 50 - 34	-	9000003053	9000003054	30	40	389	390	379	362	343	324	303	276	238	149
QF 50 - 35	-	9000003055	9000003057	30	40	399	401	390	372	352	332	310	283	244	152
QF 50 - 39	-	9000008074	9000012064	37	50	445	447	435	416	395	374	351	320	278	176
QF 50 - 43	-	9000011314	9000015389	37	50	489	492	478	456	433	409	383	350	303	190
QF 50 - 46	-	-	9000003068	45	60	531	535	521	499	475	451	424	389	341	220
QF 50 - 49	-	-	9000011613	45	60	565	568	554	530	504	478	450	413	361	233

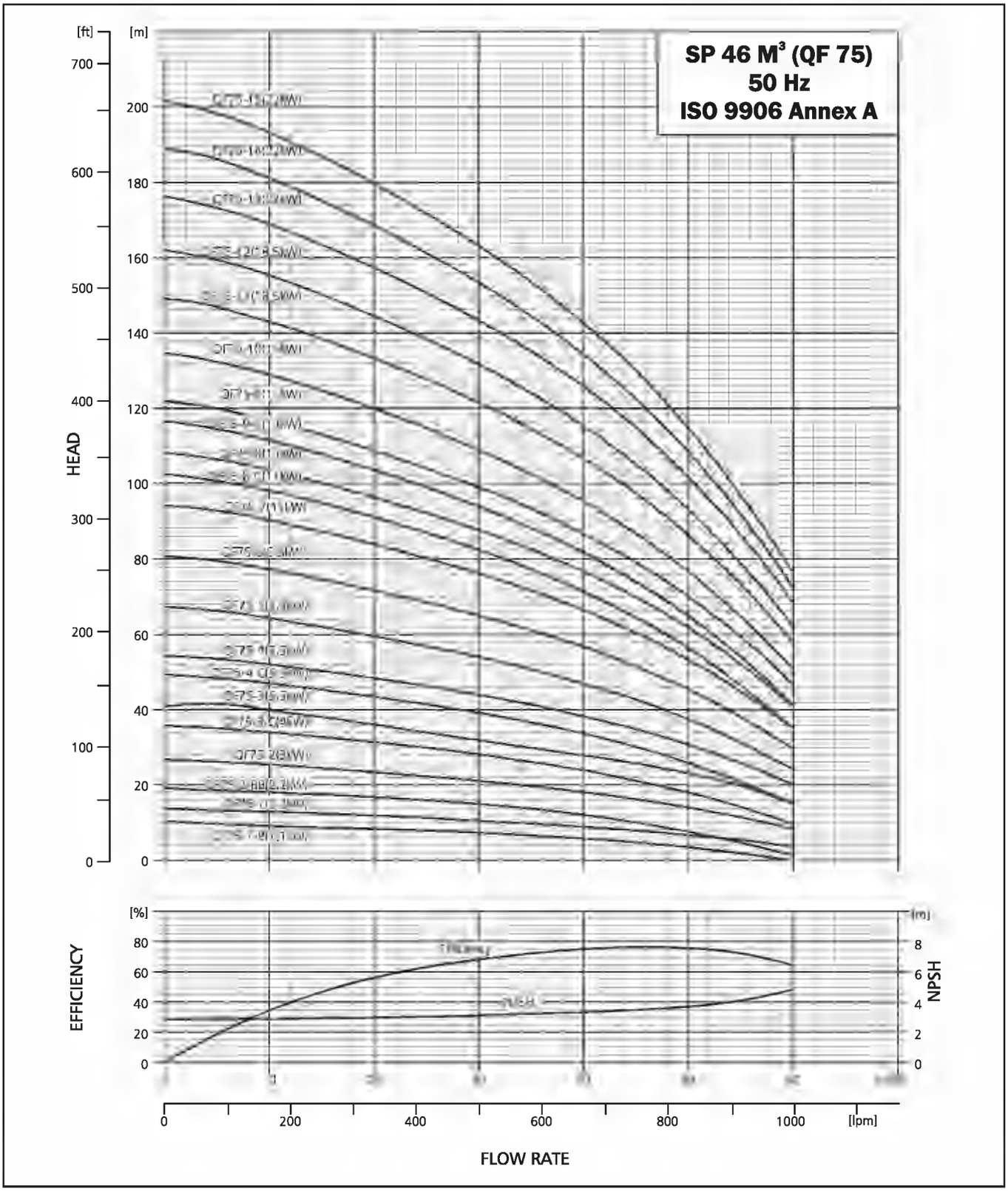
SUBMERSIBLE PUMP QF 50



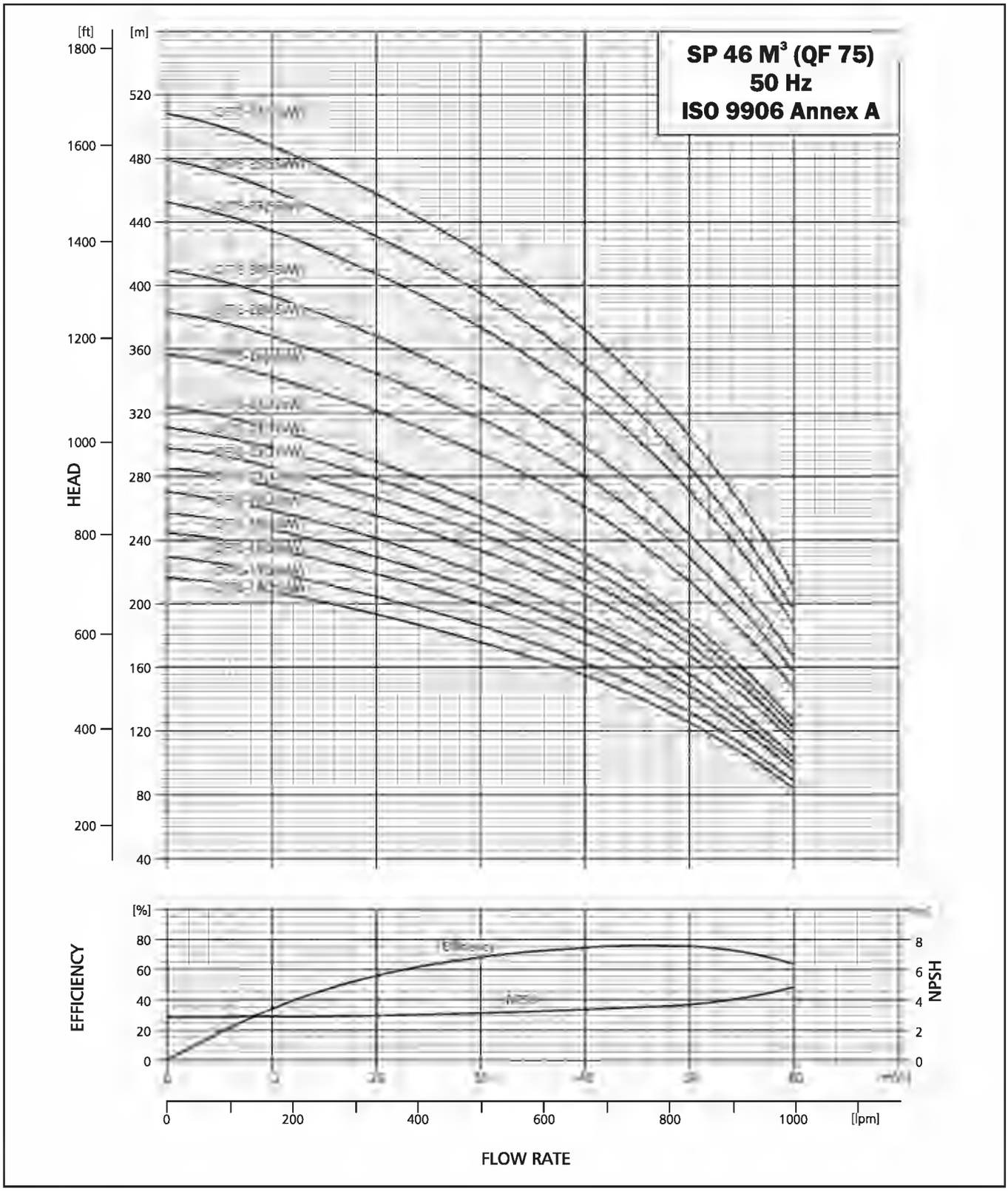
SUBMERSIBLE PUMP QF 50



SUBMERSIBLE PUMP QF 75

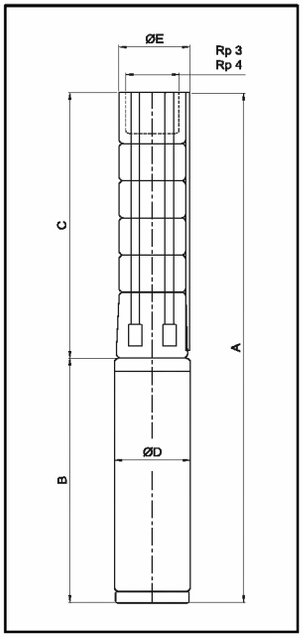


SUBMERSIBLE PUMP QF 75



SUBMERSIBLE PUMP QF 75

DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard & motor.

TECHNICAL DATA QF 75

PUMP TYPE	MOTOR		DIMENSIONS (MM)										NET WEIGHT(KG)	
			Rp 3" CONNECTION				Rp 4" CONNECTION							
	TYPE	POWER (kW)	A	C	E*	E**	A	C	E*	E**	B	D	PUMP	MOTOR
QF75-1-B	PREMIUM 100	1.1	659	367	150	-	659	367	150	-	292	95	6	11
QF75-1	PREMIUM 100	2.2	772	367	150	-	772	367	150	-	405	95	6	15
QF75-2-BB	PREMIUM 100	2.2	885	480	150	-	885	480	150	-	405	95	8	15
QF75-2	PREMIUM 100	3	962	480	150	-	962	480	150	-	482	95	8	17
QF75-3-C	PREMIUM 101	4	1172	593	150	-	1172	593	150	-	579	95	11	23
QF75-3	PREMIUM 101	5.5	1286	593	150	-	1286	593	150	-	693	95	11	29
QF75-4-C	PREMIUM 101	5.5	1399	706	150	-	1399	706	150	-	693	95	13	29
QF75-4	PREMIUM 101	7.5	1476	706	150	-	1476	706	150	-	770	95	13	33
QF75-5	PREMIUM 101	7.5	1589	819	150	-	1589	819	150	-	770	95	15	33
QF75-3-C	MATASF 150	4	1309	610	150	155	1309	610	150	155	699	145	11	48
QF75-3	MATASF 150	5.5	1309	610	150	155	1309	610	150	155	699	145	11	48
QF75-4-C	MATASF 150	5.5	1422	723	150	155	1422	723	150	155	699	145	13	48
QF75-4	MATASF 150	7.5	1442	723	150	155	1442	723	150	155	719	145	13	50
QF75-5	MATASF 150	7.5	1555	836	150	155	1555	836	150	155	719	145	15	50
QF75-6	MATASF 150	9.3	1698	949	150	155	1698	949	150	155	749	145	18	53
QF75-7	MATASF 150	11	1841	1062	150	155	1841	1062	150	155	779	145	20	56
QF75-8C	MATASF 150	11	1954	1175	150	155	1954	1175	150	155	779	145	22	56
QF75-8	MATASF 150	13	2004	1175	150	155	2004	1175	150	155	829	145	22	61
QF75-9C	MATASF 150	13	2117	1288	150	155	2117	1288	150	155	829	145	24	61
QF75-9	MATASF 150	15	2162	1288	150	155	2162	1288	150	155	874	145	24	66
QF75-10	MATASF 150	15	2275	1401	150	155	2275	1401	150	155	874	145	27	66
QF75-11	MATASF 150	18.5	2433	1514	150	155	2433	1514	150	155	919	145	29	70
QF75-12	MATASF 150	18.5	2546	1627	150	155	2546	1627	150	155	919	145	31	70
QF75-13	MATASF 150	22	2749	1740	150	155	2749	1740	150	155	1009	145	34	79
QF75-14	MATASF 150	22	2862	1853	150	155	2862	1853	150	155	1009	145	36	79
QF75-15	MATASF 150	22	2975	1966	150	155	2975	1966	150	155	1009	145	38	79
QF75-16	MATASF 150	26	3193	2079	150	155	3193	2079	150	155	1114	145	41	90
QF75-17	MATASF 150	26	3306	2192	150	155	3306	2192	150	155	1114	145	43	90
QF75-18	MATASF 150	30	3519	2305	150	155	3519	2305	150	155	1214	145	45	100
QF75-19	MATASF 150	30	3632	2418	150	155	3632	2418	150	155	1214	145	47	100
QF75-20	MATASF 150	30	3745	2531	150	155	3745	2531	150	155	1214	145	50	100
QF75-18	MATASF 200	30	3445	2305	195	195	3445	2305	195	195	1140	195	45	172
QF75-19	MATASF 200	30	3558	2418	195	195	3558	2418	195	195	1140	195	47	172
QF75-20	MATASF 200	30	3671	2531	195	195	3671	2531	195	195	1140	195	50	172
QF75-21	MATASF 200	37	3784	2644	195	195	3784	2644	195	195	1140	195	52	172
QF75-22	MATASF 200	37	3897	2757	195	195	3897	2757	195	195	1140	195	54	172
QF75-23	MATASF 200	37	4010	2870	195	195	4010	2870	195	195	1140	195	57	172
QF75-24	MATASF 200	37	4123	2983	195	195	4123	2983	195	195	1140	195	59	172
QF75-26	MATASF 200	45	4439	3209	195	195	4439	3209	195	195	1230	195	64	188
QF75-28	MATASF 200	45	4665	3435	195	195	4665	3435	195	195	1230	195	68	188
QF75-30	MATASF 200	45	4891	3661	195	195	4891	3661	195	195	1230	195	73	188
QF75-33	MATASF 200	55	5340	4000	195	195	5340	4000	195	195	1340	195	80	211
QF75-35	MATASF 200	55	5566	4226	195	195	5566	4226	195	195	1340	195	84	211
QF75-37	MATASF 200	55	5792	4452	195	195	5792	4452	195	195	1340	195	89	211

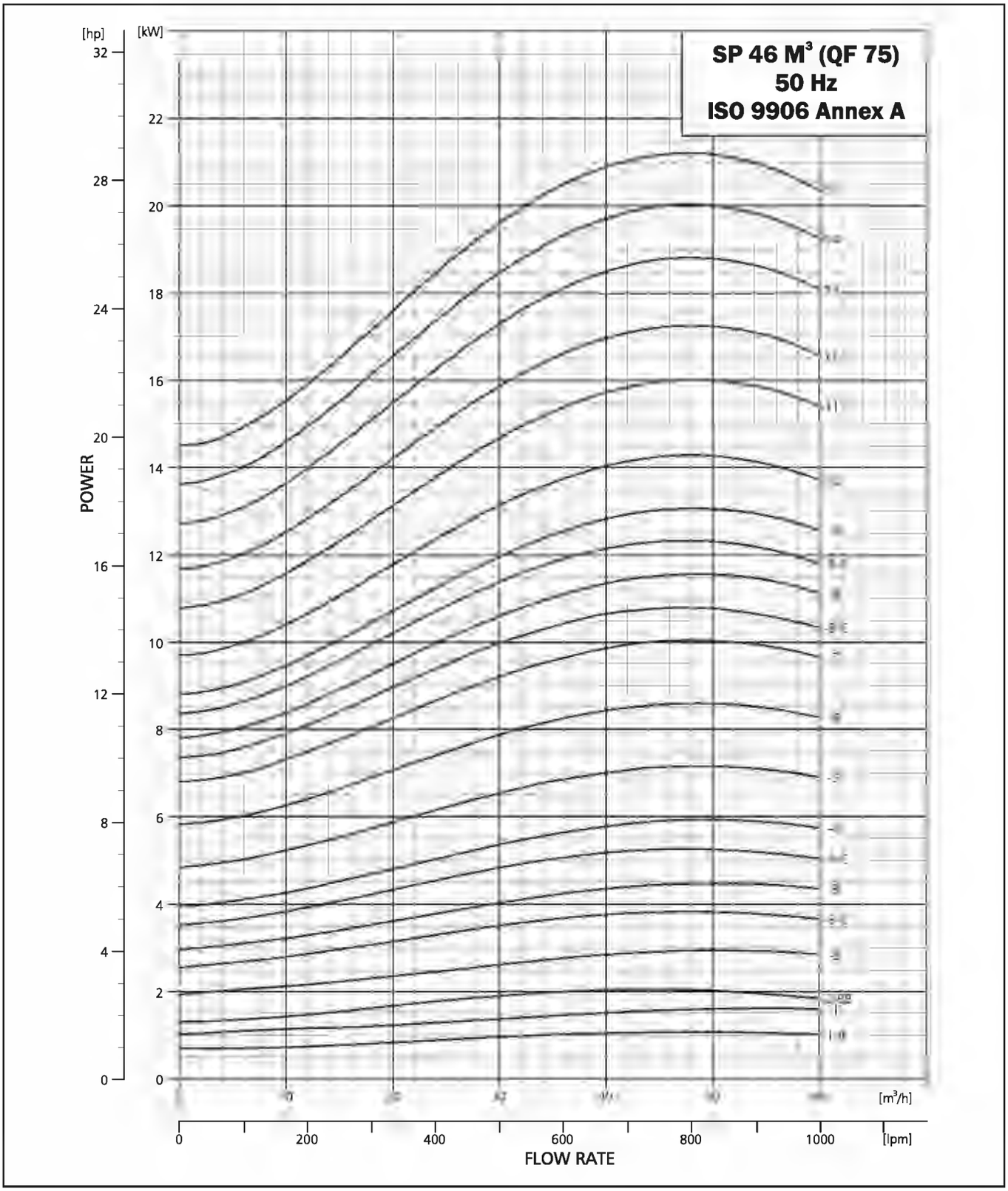
* Maximum diameter of pump with one motor cable.
** Maximum diameter of pump with two motor cable.
Motor type may change as per requirement.
Other type of connection is possible by means of connecting pieces. See page no. 117.

SUBMERSIBLE PUMP QF 75

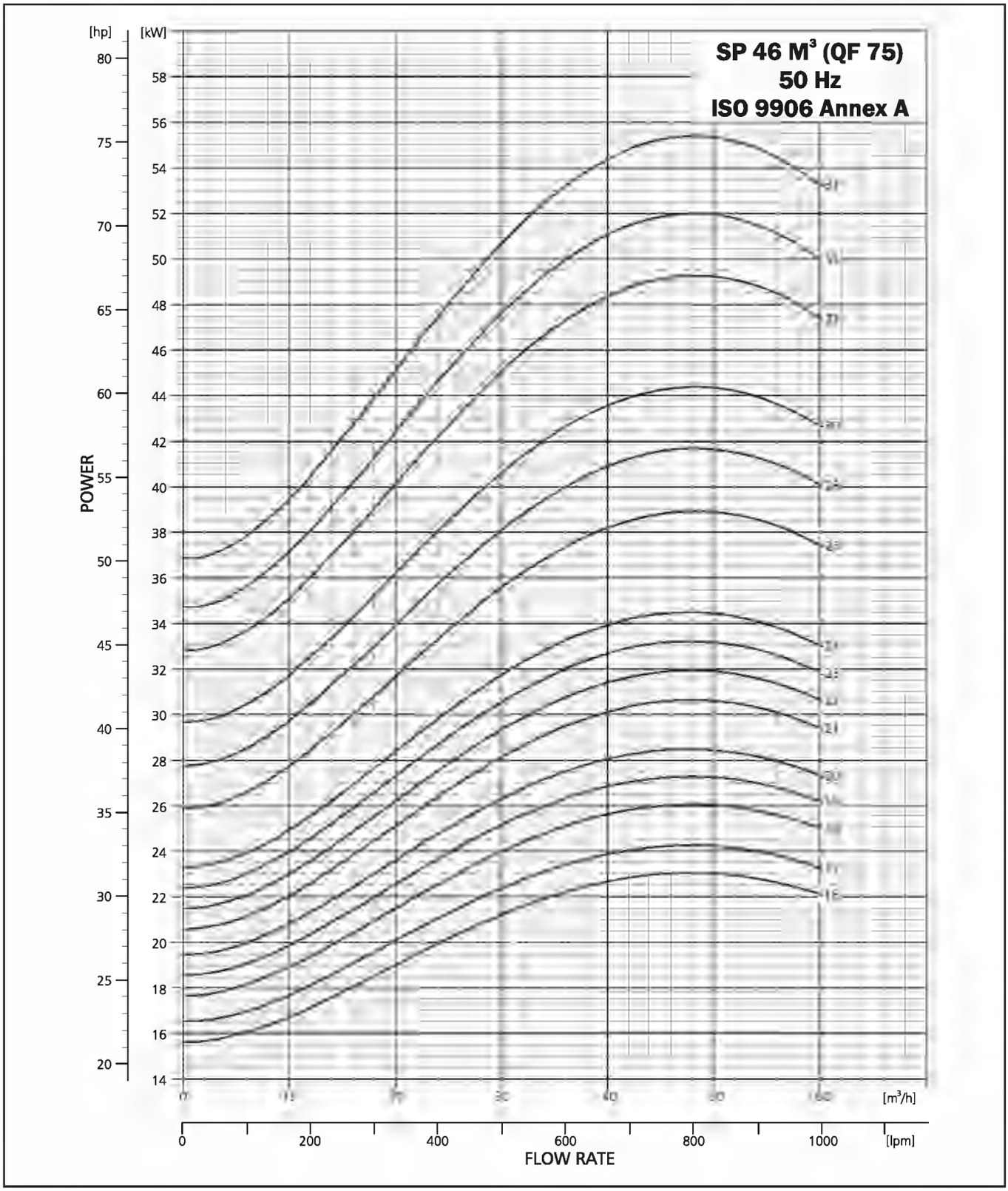
PERFORMANCE TABLE QF 75

QF-75				m³/h		DISCHARGE (Q)												
				1/min.		0	83.3	166.7	250	333.3	416.7	500	583.3	666.7	750	833.3	916.7	996.7
MODEL	MATERIAL CODE			MOTOR RATING		TOTAL HEAD IN (m)												
	4x6	6x6	8x6	[kW]	[HP]													
QF75-2-BB	9000003137	-	-	2.2	3	19	19	18	17	17	16	15	14	12	10	8	5	1
QF75-2	9000003121	-	-	3	4	27	26	25	24	23	22	21	20	18	16	14	11	9
QF75-3-C	9000003150	-	-	4	5.5	36	35	34	33	31	30	28	26	24	21	18	14	10
QF75-3	9000003140	-	-	5.5	7.5	41	41	40	38	36	34	32	30	28	26	23	20	15
QF75-4-C	9000003156	-	-	5.5	7.5	49	48	47	45	43	41	39	37	34	30	26	21	15
QF75-4	9000003151	-	-	7.5	10	54	53	52	50	48	46	44	41	38	35	31	26	20
QF75-5	9000003158	-	-	7.5	10	67	66	64	62	60	57	54	51	47	43	37	31	24
QF75-6	-	-	-	9.3	12.5	81	79	77	75	72	69	65	61	57	51	45	38	30
QF75-7	-	-	-	11	15	94	93	90	87	84	80	76	72	66	61	53	45	35
QF75-8-C	-	-	-	11	15	103	101	98	95	91	87	82	77	71	65	56	46	36
QF75-8	-	-	-	13	17.5	108	106	104	100	96	92	88	83	77	70	62	52	41
QF75-9-C	-	-	-	13	17.5	117	115	112	108	104	99	94	88	82	74	65	54	42
QF75-9	-	-	-	15	20	122	120	117	113	109	104	99	93	87	79	70	59	47
QF75-10	-	9000003085	-	15	20	135	132	129	125	120	115	109	103	95	87	77	65	51
QF75-11	-	9000003089	-	18.5	25	149	147	143	138	133	128	122	115	107	97	86	73	59
QF75-12	-	9000003092	-	18.5	25	162	159	155	150	145	138	132	124	115	105	93	79	63
QF75-13	-	9000003095	-	22	30	176	173	169	163	157	151	143	135	126	115	102	86	69
QF75-14	-	9000003098	-	22	30	189	186	181	175	169	161	153	144	134	122	108	92	73
QF75-15	-	9000003101	-	22	30	202	198	193	187	180	172	163	154	143	130	115	97	77
QF75-16	-	9000003104	-	26	35	217	213	208	201	193	185	176	166	155	141	125	106	85
QF75-17	-	9000003107	-	26	35	229	226	220	213	205	196	186	175	163	149	132	112	89
QF75-18	-	9000003110	9000003111	30	40	244	241	234	227	219	209	199	188	175	160	142	121	97
QF75-19	-	9000003114	9000003115	30	40	257	253	247	239	230	220	209	197	183	167	148	126	101
QF75-20	-	9000003125	9000003126	30	40	270	265	259	251	241	230	219	206	192	175	155	132	105
QF75-21	-	9000009825	9000003127	37	50	285	280	273	265	255	245	234	221	206	188	167	143	115
QF75-22	-	9000003128	9000003129	37	50	298	293	286	277	267	256	244	230	215	196	174	148	119
QF75-23	-	9000010370	9000003130	37	50	311	306	298	289	278	267	254	240	223	204	181	154	124
QF75-24	-	9000003132	9000003133	37	50	324	318	310	300	289	277	264	249	232	212	188	160	128
QF75-26	-	-	9000010933	45	60	357	351	343	332	321	308	295	279	261	239	214	183	149
QF75-28	-	-	9000008080	45	60	383	377	368	357	345	331	316	299	280	256	229	196	159
QF75-30	-	-	9000008081	45	60	410	403	393	381	368	353	337	319	298	273	244	208	169
QF75-33	-	-	9000008082	55	75	452	445	435	422	407	391	374	354	331	303	271	232	189

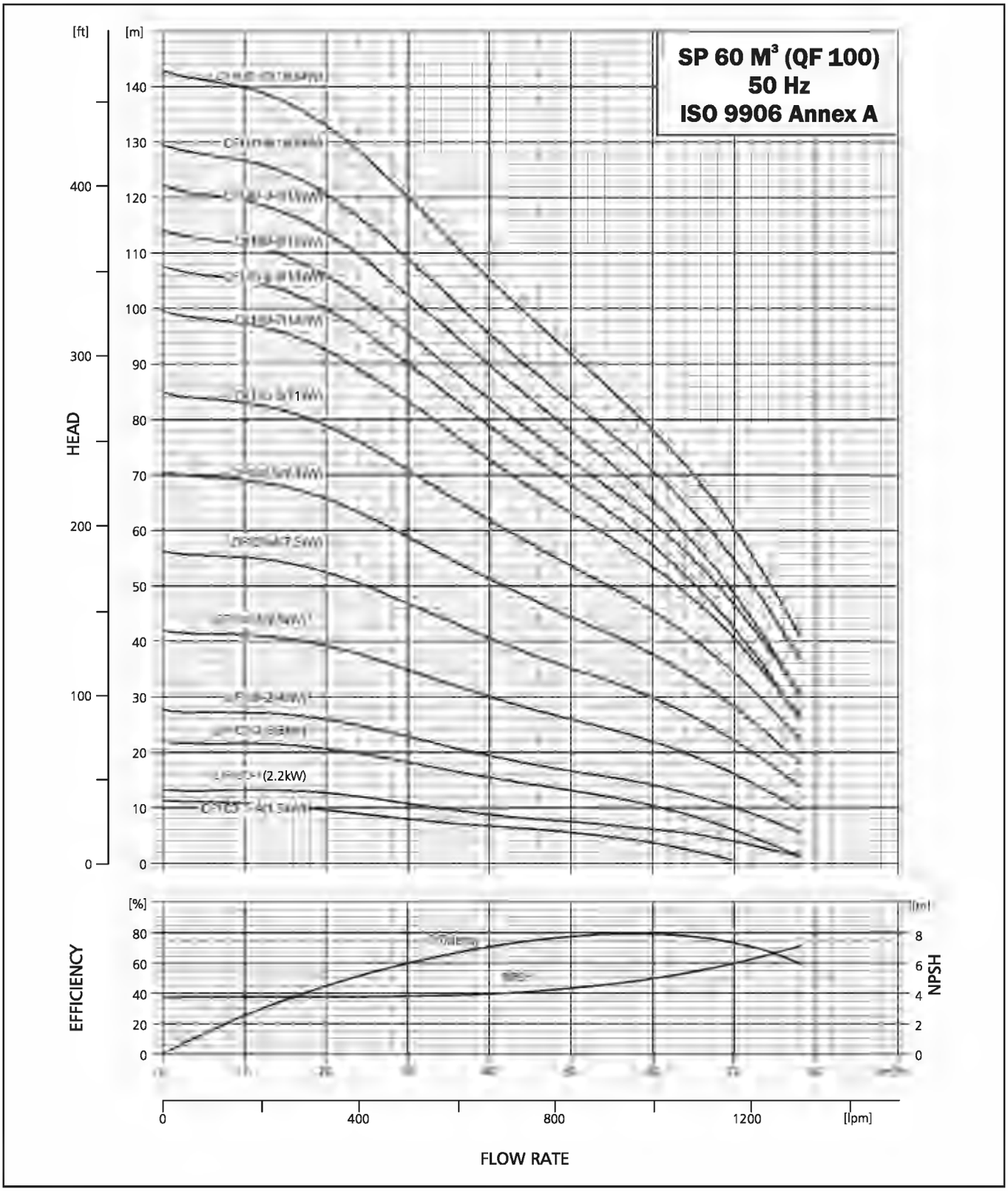
SUBMERSIBLE PUMP QF 75



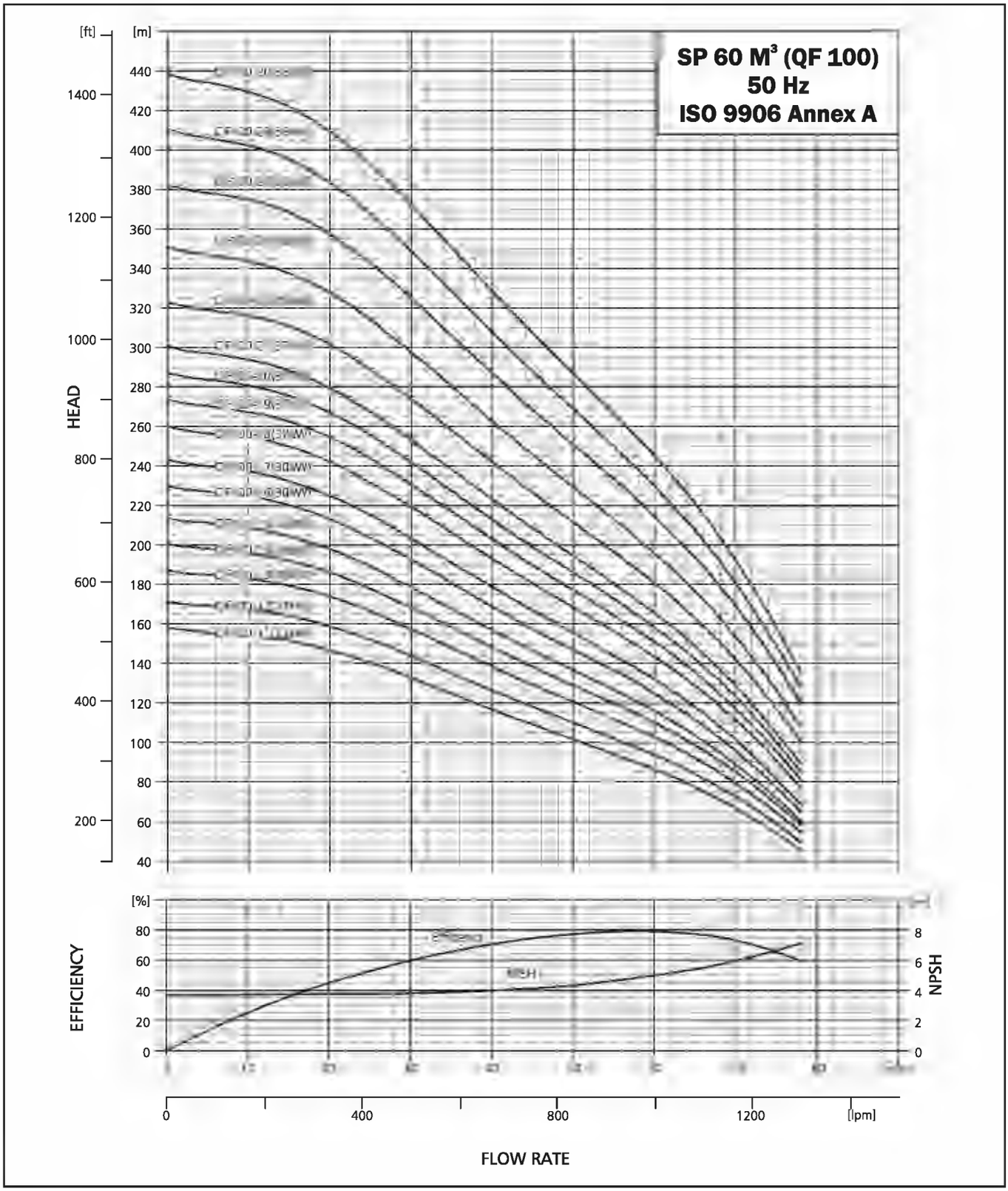
SUBMERSIBLE PUMP QF 75



SUBMERSIBLE PUMP QF 100

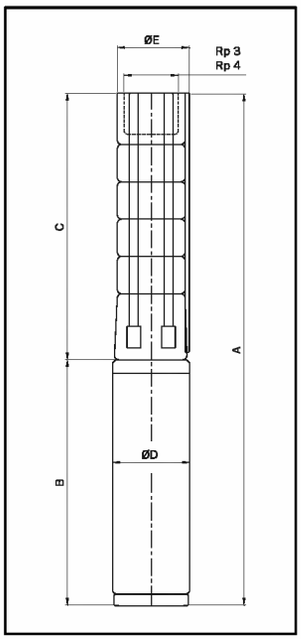


SUBMERSIBLE PUMP QF 100



SUBMERSIBLE PUMP QF 100

DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard & motor.

TECHNICAL DATA QF 100

PUMP TYPE	MOTOR		DIMENSIONS (MM)										NET WEIGHT (KG)	
	TYPE	POWER (kW)	RP 3" CONNECTION				RP 4" CONNECTION				B	D	PUMP	MOTOR
			A	C	E*	E**	A	C	E*	E**				
QF 100-1-A	PREMIUM 100	1.5	707	367	150	-	707	367	150	-	340	95	6	13
QF100-1	PREMIUM 100	2.2	772	367	150	-	772	367	150	-	405	95	6	15
QF100-2-B	PREMIUM 100	3	962	480	150	-	962	480	150	-	482	95	8	17
QF100-2	PREMIUM 101	4	1059	480	150	-	1059	480	150	-	579	95	8	23
QF100-3	PREMIUM 101	5.5	1286	593	150	-	1286	593	150	-	693	95	11	29
QF100-4	PREMIUM 101	7.5	1476	706	150	-	1476	706	150	-	770	145	13	33
QF100-3	MATASF 150	5.5	1309	610	150	-	1309	610	150	-	699	145	11	48
QF100-4	MATASF 150	7.5	1442	723	150	-	1442	723	150	-	719	145	13	50
QF100-5	MATASF 150	9.3	1585	836	150	155	1585	836	150	155	749	145	15	53
QF100-6	MATASF 150	11	1728	949	150	155	1728	949	150	155	779	145	17	56
QF100-7	MATASF 150	13	1891	1062	150	155	1891	1062	150	155	829	145	20	61
QF100-8-B	MATASF 150	13	2004	1175	150	155	2004	1175	150	155	829	145	22	61
QF 100-8	MATASF 150	15	2049	1175	150	155	2049	1175	150	155	874	145	22	66
QF100-9-B	MATASF 150	15	2162	1288	150	155	2162	1288	150	155	874	145	24	66
QF100-9	MATASF 150	18.5	2207	1288	150	155	2207	1288	150	155	919	145	24	70
QF100-10	MATASF 150	18.5	2320	1401	150	155	2320	1401	150	155	919	145	26	70
QF100-11	MATASF 150	22	2523	1514	150	155	2523	1514	150	155	1009	145	29	79
QF100-12	MATASF 150	22	2636	1627	150	155	2636	1627	150	155	1009	145	31	79
QF100-13	MATASF 150	26	2854	1740	150	155	2854	1740	150	155	1114	145	33	90
QF100-14	MATASF 150	26	2967	1853	150	155	2967	1853	150	155	1114	145	35	90
QF100-15	MATASF 150	26	3080	1966	150	155	3080	1966	150	155	1114	145	38	90
QF100-16	MATASF 150	30	3293	2079	150	155	3293	2079	150	155	1214	145	40	100
QF100-17	MATASF 150	30	3406	2192	150	155	3406	2192	150	155	1214	145	42	100
QF100-16	MATASF 200	30	3219	2079	195	195	3219	2079	195	195	1140	195	40	172
QF100-17	MATASF 200	30	3332	2192	195	195	3332	2192	195	195	1140	195	42	172
QF100-18	MATASF 200	37	3445	2305	195	195	3445	2305	195	195	1140	195	44	172
QF100-19	MATASF 200	37	3558	2418	195	195	3558	2418	195	195	1140	195	47	172
QF100-20	MATASF 200	37	3671	2531	195	195	3671	2531	195	195	1140	195	49	172
QF100-21	MATASF 200	37	3784	2644	195	195	3784	2644	195	195	1140	195	51	172
QF100-22	MATASF 200	45	3987	2757	195	195	3987	2757	195	195	1230	195	53	188
QF100-24	MATASF 200	45	4213	2983	195	195	4213	2983	195	195	1230	195	58	188
QF100-26	MATASF 200	55	4549	3209	195	195	4549	3209	195	195	1340	195	62	211
QF100-28	MATASF 200	55	4775	3435	195	195	4775	3435	195	195	1340	195	67	211
QF100-30	MATASF 200	55	5001	3661	195	195	5001	3661	195	195	1340	195	71	211

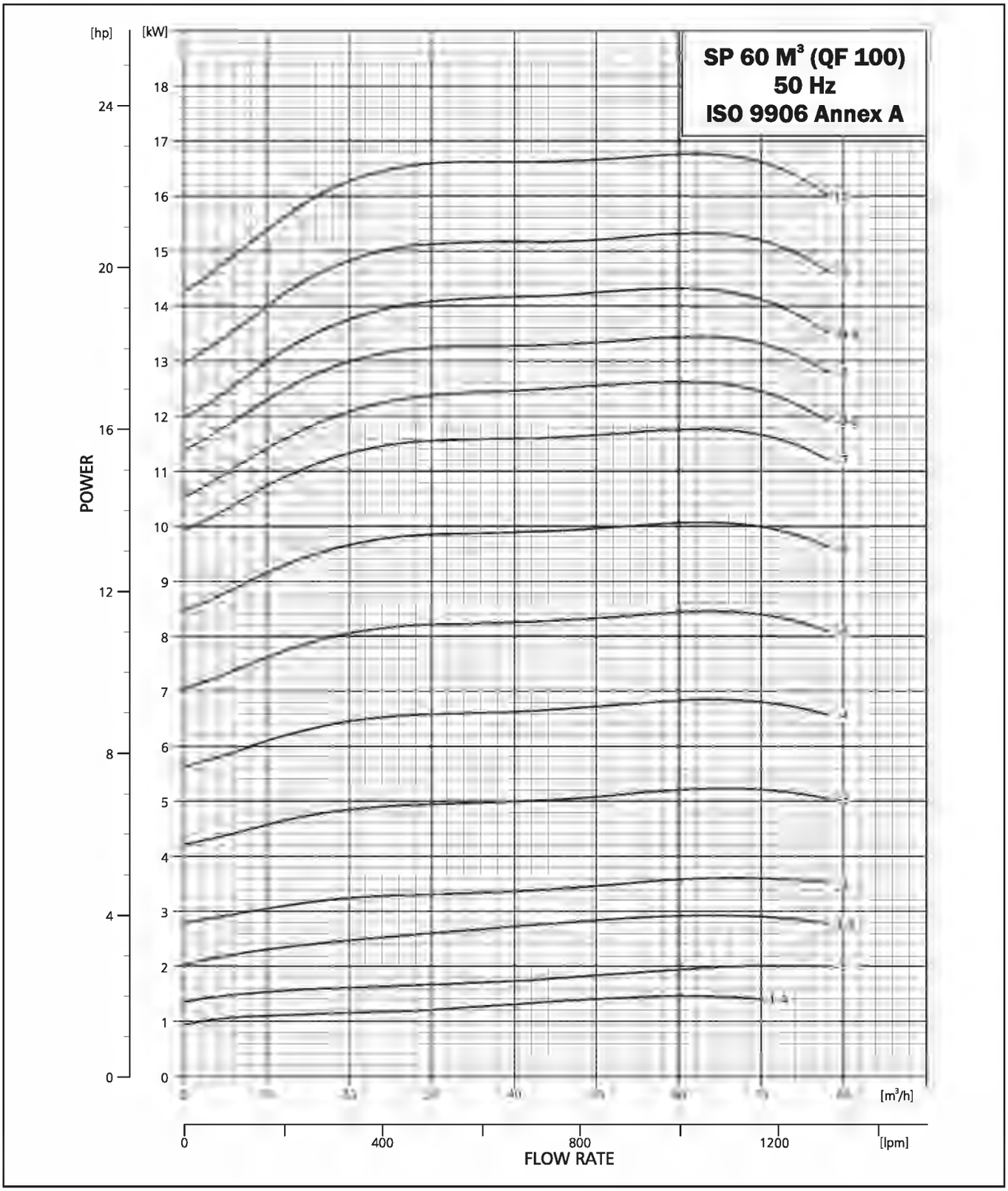
* Maximum diameter of pump with one motor cable.
** Maximum diameter of pump with two motor cable.
Motor type may change as per requirement.
Other type of connection is possible by means of connecting pieces. See page no. 117.

SUBMERSIBLE PUMP QF 100

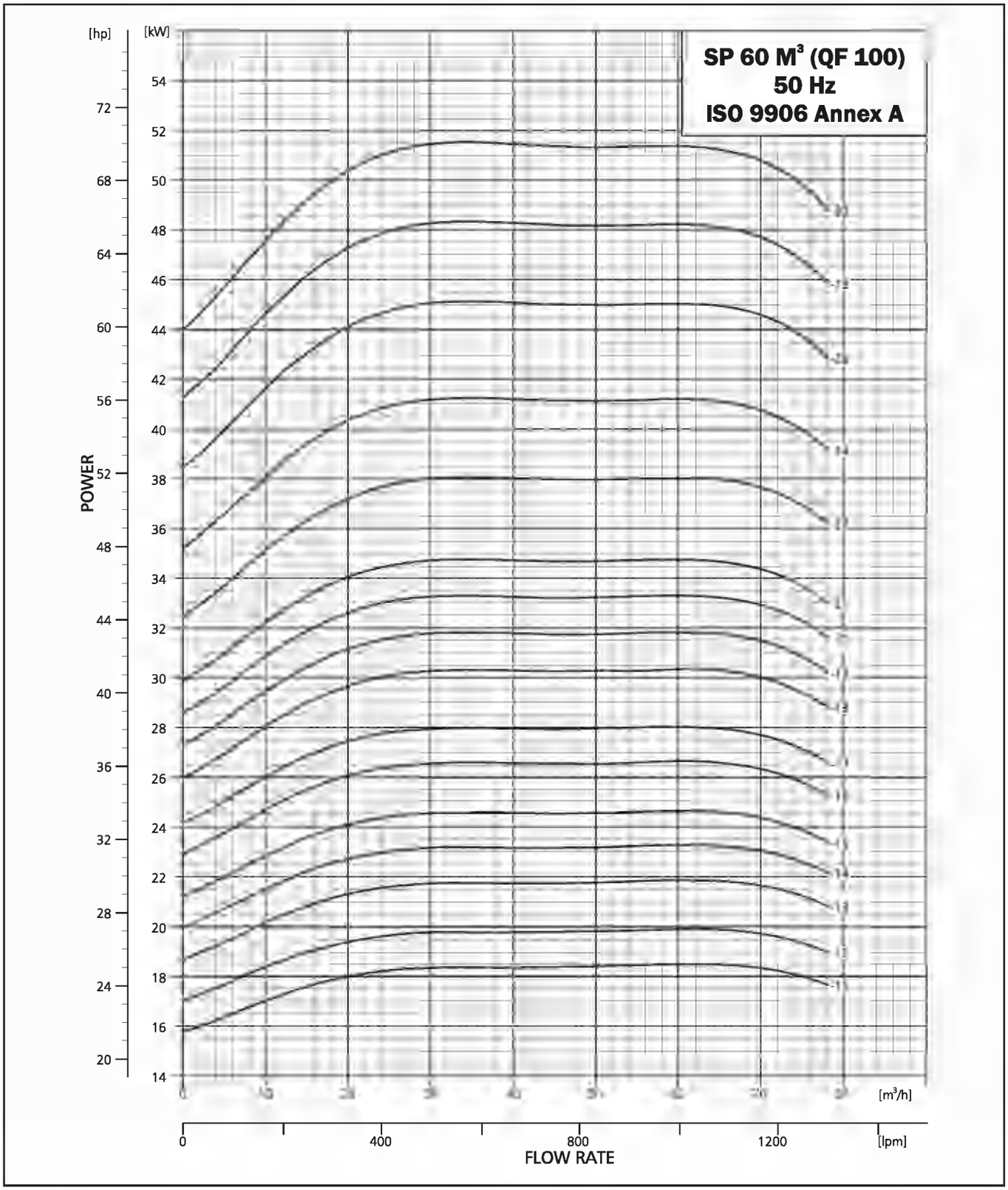
PERFORMANCE TABLE QF 100

QF-100				DISCHARGE (Q)										
				m^3/h		0	10	20	30	40	50	60	70	78
				l/min.		0	166.7	333.3	500	666.7	833.3	1000	1166.7	1300
MODEL	MATERIAL CODE			MOTOR RATING		TOTAL HEAD IN (m)								
	4x6	6x6	8x6	[kW]	[HP]									
QF 100 1-A	9000003229	-	-	1.5	2	12	11	9	8	7	5	4	1	0
QF 100 - 1	9000003179	9000017915	-	2.2	3	13	14	13	11	9	7	6	4	1
QF 100 -2-B	9000003241	-	-	3	4	22	22	21	18	15	13	10	6	1
QF 100 -2	9000003181	9000003231	-	4	5.5	28	27	26	23	19	17	14	10	5
QF 100 -3	9000011341	9000003244	-	5.5	7.5	42	41	39	35	30	26	22	16	10
QF 100 -4	9000003184	9000003249	-	7.5	10	56	55	52	47	41	35	30	22	14
QF 100 -5	-	9000003251	-	9.3	12.5	71	69	66	59	51	44	38	28	18
QF 100 -6	-	9000003254	-	11	15	85	83	79	71	62	54	45	34	22
QF 100 -7	-	9000003256	-	13	17.5	99	97	92	83	73	63	53	40	26
QF 100 -8-B	-	9000017852	-	13	17.5	108	105	100	90	79	68	57	42	26
QF 100 -8	-	9000003259	-	15	20	114	112	106	96	84	73	61	47	31
QF 100 -9-B	-	9000003263	-	15	20	122	119	113	102	90	78	65	48	30
QF 100 -9	-	9000003261	-	18.5	25	129	127	121	109	95	83	71	54	37
QF 100 -10	-	9000003197	-	18.5	25	143	140	133	120	105	92	78	60	41
QF 100 -11	-	9000003201	-	22	30	158	154	147	133	116	101	86	67	45
QF 100 -12	-	9000003204	-	22	30	171	167	159	144	126	110	94	72	50
QF 100 -13	-	9000003207	-	26	35	187	183	174	157	138	120	103	79	54
QF 100 -14	-	9000003210	-	26	35	200	196	186	168	148	129	110	85	58
QF 100 -15	-	9000003212	-	26	35	214	209	198	179	157	136	116	89	60
QF 100 -16	-	9000003216	9000003218	30	40	230	224	213	192	169	147	125	96	65
QF 100 -17	-	9000003219	9000003222	30	40	243	237	225	203	179	155	132	101	69
QF 100 -18	-	9000010511	9000003225	37	50	260	254	242	219	193	168	143	111	77
QF 100 -19	-	9000003226	9000003228	37	50	274	268	255	231	203	177	151	117	81
QF 100 -20	-	9000011316	9000003233	37	50	287	281	267	242	213	186	158	123	85
QF 100 -21	-	9000003236	9000003235	37	50	301	294	279	253	223	194	166	129	89
QF 100 -22	-	9000011318	9000003237	45	60	323	316	302	274	242	211	181	142	100
QF 100 -24	-	-	9000003238	45	60	352	345	329	299	264	230	197	155	109
QF 100 -26	-	-	9000003239	55	75	381	374	356	324	286	249	213	168	118
QF 100 -28	-	-	9000003240	55	75	411	402	384	349	308	269	230	181	127
QF 100 -30	-	-	9000003245	55	75	440	431	411	374	330	287	246	194	136

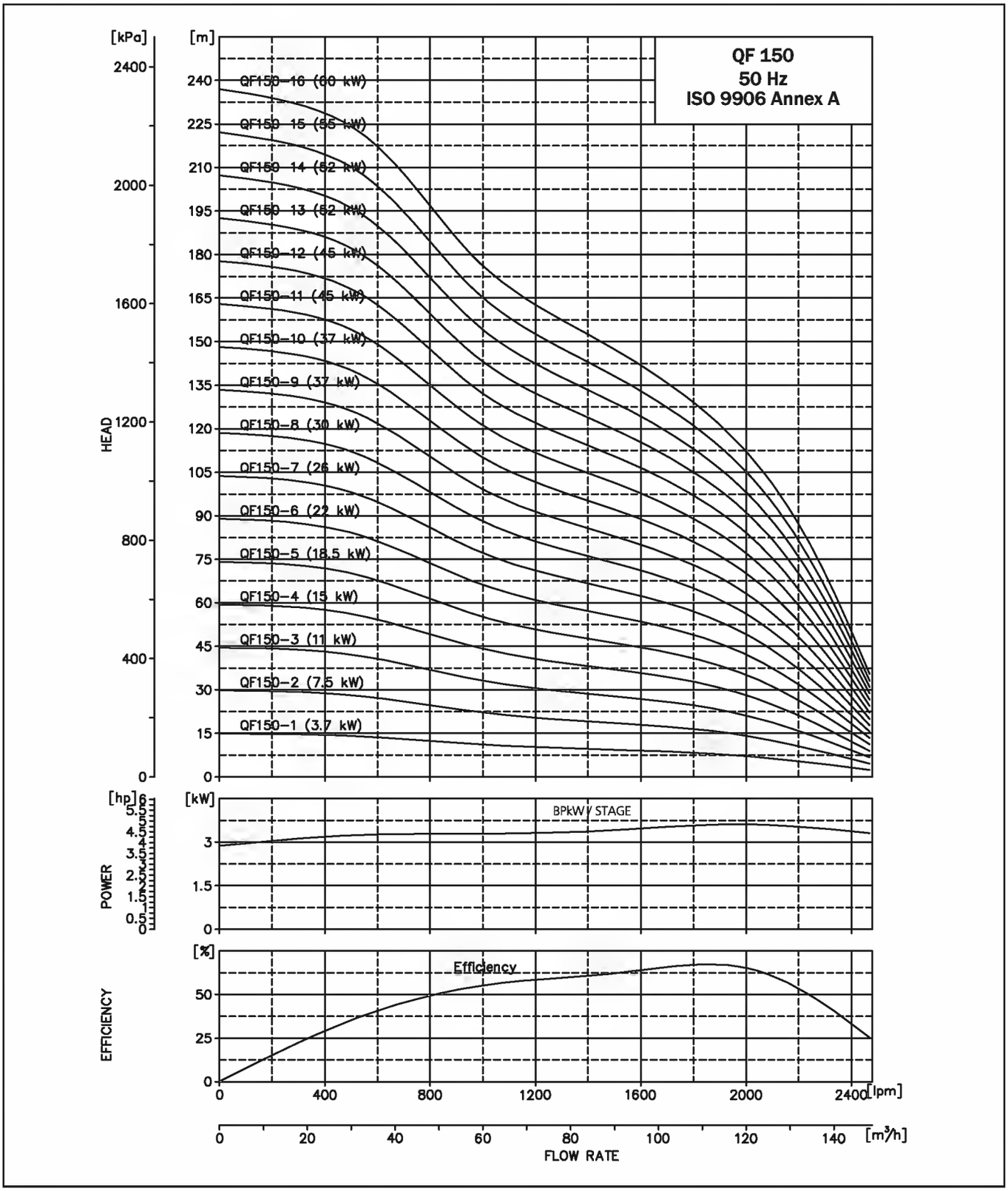
SUBMERSIBLE PUMP QF 100



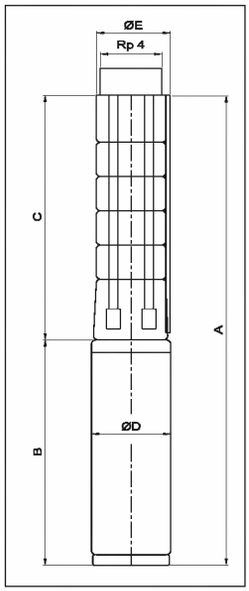
SUBMERSIBLE PUMP QF 100



SUBMERSIBLE PUMP QF 150 V6



SUBMERSIBLE PUMP QF 150



PUMP TYPE	MOTOR		DIMENSIONS (mm)										NET WEIGHT (kg)	
	TYPE	POWER (kW)	Rp 4" CONNECTION				Rp 4" FLANGE				B	D	PUMP	MOTOR
			A	C	E*	E**	A	C	E*	E**				
QF150-1	4"PREMIUM 100	3.7	1007	428	150	-	1007	428	150	-	579	95	11	23
QF150-2	4"PREMIUM 100	7.5	1334	564	150	-	1334	564	150	-	770	95	15	33
QF150-3	6" MTSF	11	1479	700	150	155	1479	700	150	155	779	145	20	56
QF150-4	6" MTSF	15	1710	836	150	155	1710	836	150	155	874	145	27	66
QF150-5	6" MTSF	18.5	1891	972	150	155	1891	972	150	155	919	145	31	70
QF150-6	6" MTSF	22	2117	1108	150	155	2117	1108	150	155	1009	145	38	79
QF150-7	6" MTSF	26	2358	1244	150	155	2358	1244	150	155	1114	145	41	90
QF150-8	6" MTSF	30	2594	1380	150	155	2594	1380	150	155	1214	145	45	100
QF150-9	6" MTSF	30	2730	1516	150	155	2730	1516	150	155	1214	145	47	100
QF150-10	6" MTSF	37	2866	1652	150	155	2866	1652	150	155	1214	145	45	172
QF150-11	6" MTSF	37	3002	1788	150	155	3002	1788	150	155	1214	145	47	172
QF150-12	8" MTSF	45	3154	1924	150	155	3154	1924	150	155	1230	195	64	188
QF150-13	8" MTSF	45	3290	2060	150	155	3290	2060	150	155	1230	195	68	188
QF150-14	8" MTSF	45	3426	2196	150	155	3426	2196	150	155	1230	195	73	188
QF150-15	8" MTSF	55	3672	2332	150	155	3672	2332	150	155	1340	195	84	211
QF150-16	8" MTSF	55	3808	2468	150	155	3808	2468	150	155	1340	195	89	211

* Maximum diameter of pump with one motor cable.

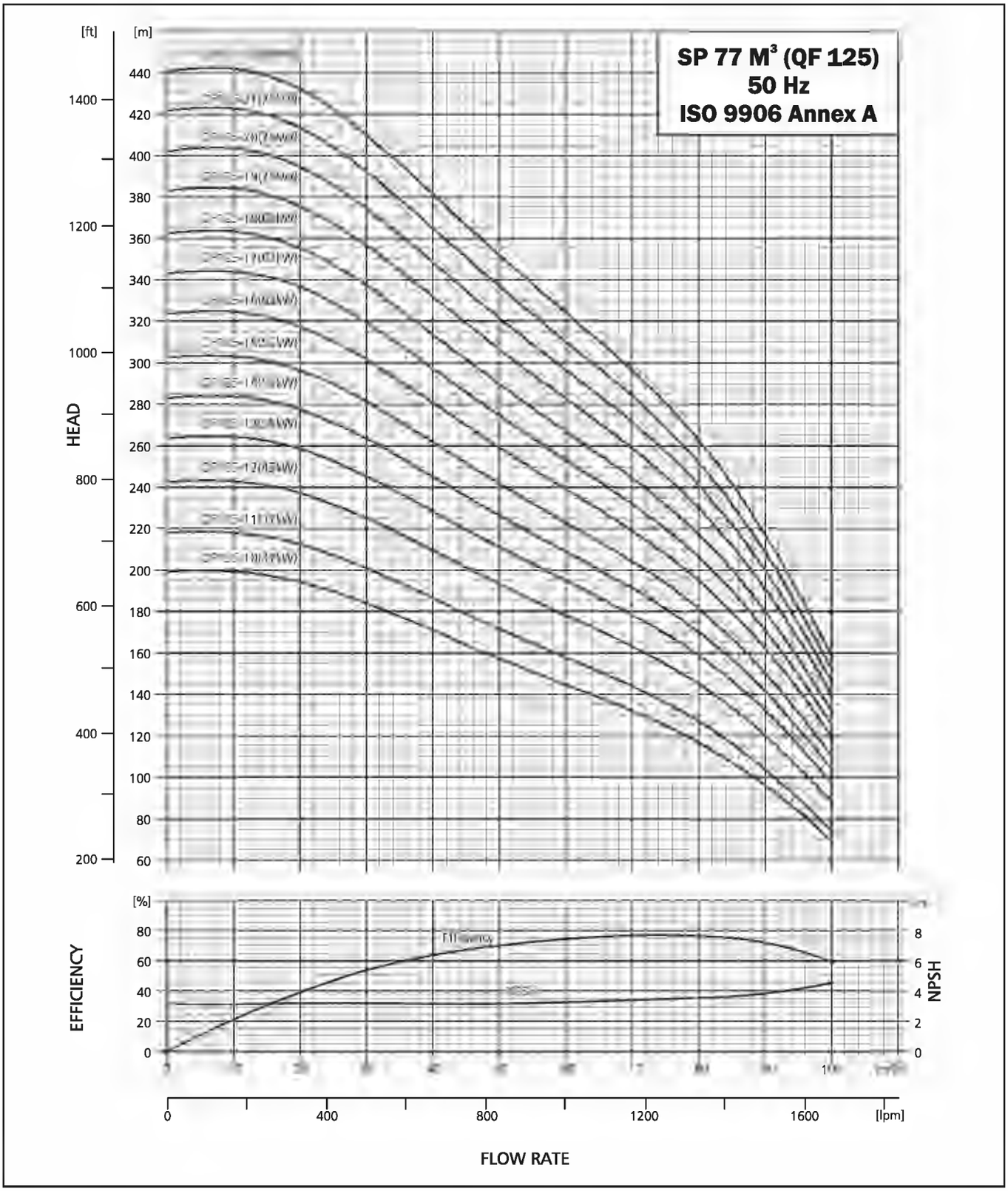
** Maximum diameter of pump with two motor cable.

Motor type may change as per requirement.

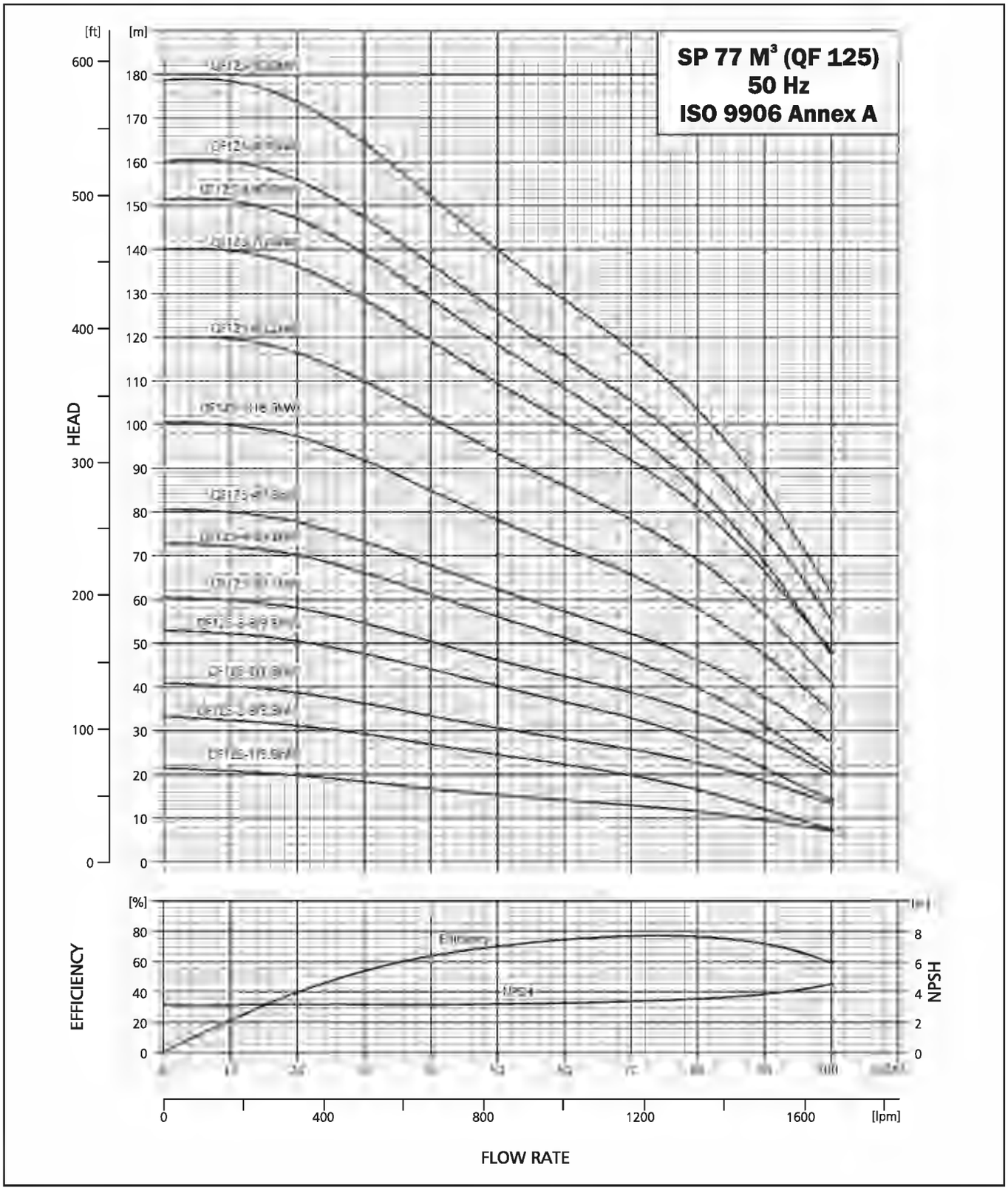
PERFORMANCE TABLE QF 150

QF 150				DISCHARGE (Q)								
				m³/h		0	24	48	72	96	120	147
				LPM		0	400	800	1200	1600	2000	2450
MODEL	CONNECTION	Material Code (6X6)	Material Code (8X6)	MOTOR RATING		TOTAL HEAD IN [m]						
				[kW]	[HP]							
QF150-1	Rp 4"	9000022355	-	3.7	5	15	14	12	10	9	7	2
QF150-2		9000022356	-	7.5	10	30	28	25	20	18	14	4
QF150-3		9000022357	-	11	15	44	43	37	30	26	21	7
QF150-4		9000022358	-	15	20	59	57	50	40	35	28	9
QF150-5		9000022352	-	18.5	25	74	71	62	50	44	35	11
QF150-6		9000022359	-	22	30	89	85	74	60	53	42	13
QF150-7		9000022360	-	26	35	104	99	87	70	62	49	15
QF150-8		9000022361	-	30	40	118	114	99	80	70	56	18
QF150-9		9000022362	-	37	50	133	128	112	90	79	63	20
QF150-10		9000022363	-	37	50	148	142	124	100	88	70	22
QF150-11		-	9000022353	45	60	163	156	136	110	97	77	24
QF150-12		-	9000022364	45	60	178	170	149	120	106	84	26
QF150-13		-	9000022365	52	70	192	185	161	130	114	91	29
QF150-14		-	9000022366	52	70	207	199	174	140	123	98	31
QF150-15		-	9000022367	55	75	222	213	186	150	132	105	33
QF150-16		-	9000022368	60	80	237	227	198	160	141	112	35

SUBMERSIBLE PUMP QF 125

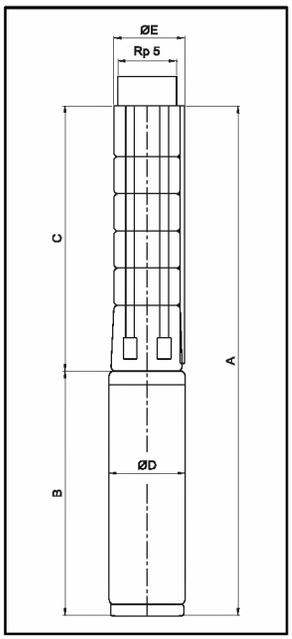


SUBMERSIBLE PUMP QF 125



SUBMERSIBLE PUMP QF 125

DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard &

TECHNICAL DATA QF 125

PUMP TYPE	MOTOR		DIMENSIONS (MM)										NET WEIGHT (KG)	
	TYPE	POWER (kW)	RP 5" CONNECTION				RP 5" FLANGE				B	D	PUMP	MOTOR
			A	C	E*	E**	A	C	E*	E**				
QF125-1	MATASF150	5.5	1325	626	178	186	1325	626	180	185	699	142	21	48
QF125-2-B	MATASF150	5.5	1453	754	178	186	1453	754	180	185	699	142	24	48
QF125-2	MATASF150	7.5	1473	754	178	186	1473	754	180	185	719	142	24	50
QF125-3-B	MATASF150	9.3	1631	882	178	186	1631	882	180	185	749	142	28	53
QF125-3	MATASF150	11	1661	882	178	186	1661	882	180	185	779	142	28	56
QF125-4-B	MATASF150	13	1839	1010	178	186	1839	1010	180	185	829	142	31	61
QF125-4	MATASF150	15	1884	1010	178	186	1884	1010	180	185	874	142	31	66
QF125-5	MATASF150	18.5	2057	1138	178	186	2057	1138	180	185	919	142	35	70
QF125-6	MATASF150	22	2275	1266	178	186	2275	1266	180	185	1009	142	38	79
QF125-7	MATASF150	26	2508	1394	178	186	2508	1394	180	185	1114	142	42	90
QF125-8-B	MATASF150	26	2636	1522	178	186	2636	1522	180	185	1114	142	46	90
QF125-8	MATASF150	30	2736	1522	178	186	2736	1522	180	185	1214	142	46	100
QF125-9	MATASF150	30	2864	1650	178	186	2864	1650	180	185	1214	142	49	100
QF125-8	MATASF200	30	2662	1522	200	205	2662	1522	210	210	1140	195	46	140
QF125-9	MATASF200	30	2790	1650	200	205	2790	1650	210	210	1140	195	50	140
QF125-10	MATASF200	37	2918	1778	200	205	2918	1778	210	210	1140	195	53	140
QF125-11	MATASF200	37	3046	1906	200	205	3046	1906	210	210	1140	195	57	140
QF125-12	MATASF200	45	3264	2034	200	205	3264	2034	210	210	1230	195	60	156
QF125-13	MATASF200	55	3502	2162	200	205	3502	2162	210	210	1340	195	64	179
QF125-14	MATASF200	55	3630	2290	200	205	3630	2290	210	210	1340	195	68	179
QF125-15	MATASF200	55	3758	2418	200	205	3758	2418	210	210	1340	195	71	179
QF125-16	MATASF200	63	4016	2546	200	205	4016	2546	210	210	1470	195	75	198
QF125-17	MATASF200	63	4144	2674	200	205	4144	2674	210	210	1470	195	78	198
QF125-18	MATASF200	63	4272	2802	200	205	4272	2802	210	210	1470	195	82	198
QF125-19	MATASF200	75	4490	2930	200	205	4490	2930	210	210	1560	195	85	215
QF125-20	MATASF200	75	4618	3058	200	205	4618	3058	210	210	1560	195	89	215
QF125-21	MATASF200	75	4746	3186	200	205	4746	3186	210	210	1560	195	93	215

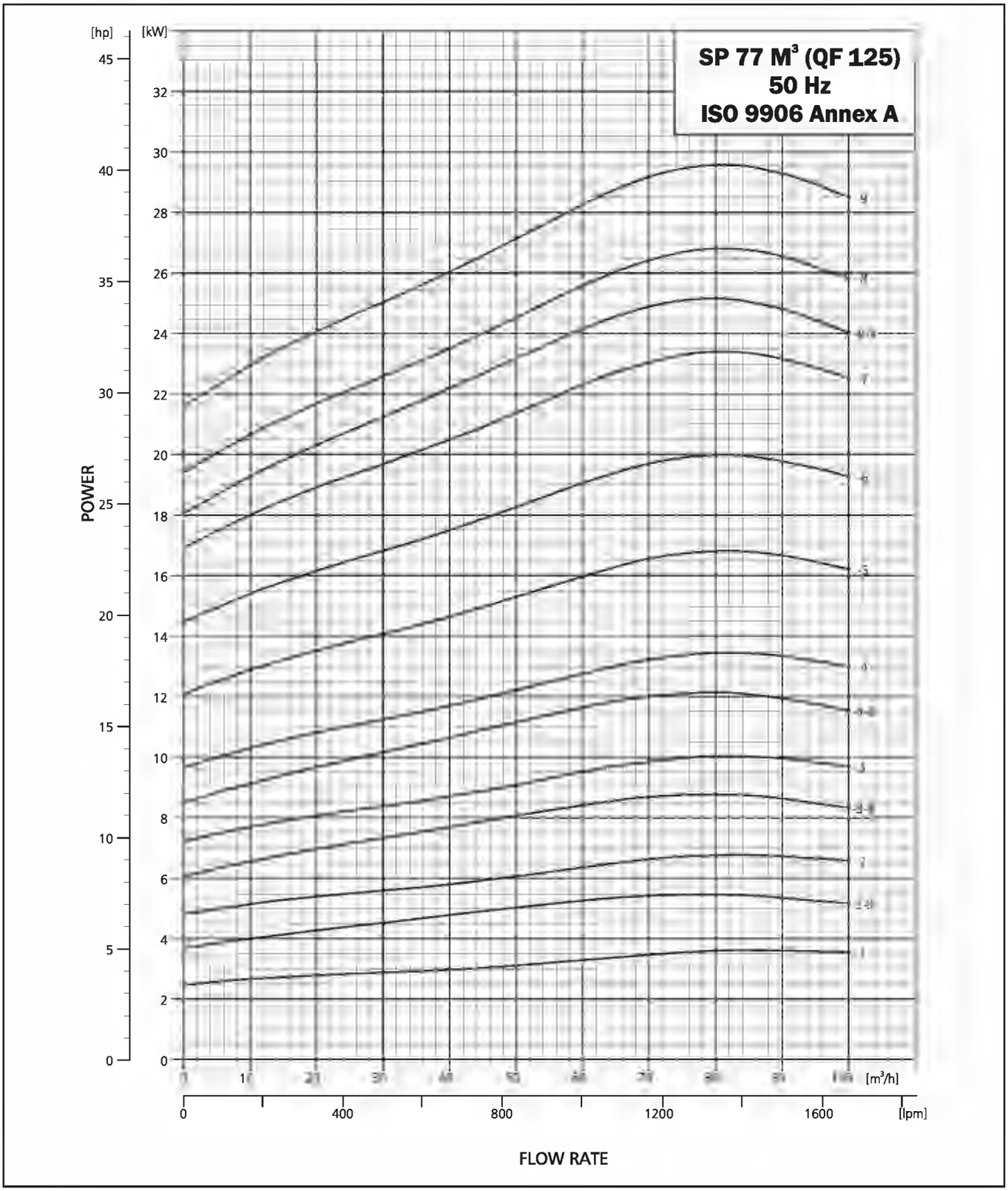
* Maximum diameter of pump with one motor cable.
** Maximum diameter of pump with two motor cable.
Motor type may change as per requirement.
Other type of connection is possible by means of connecting pieces. See page no. 117.

SUBMERSIBLE PUMP QF 125

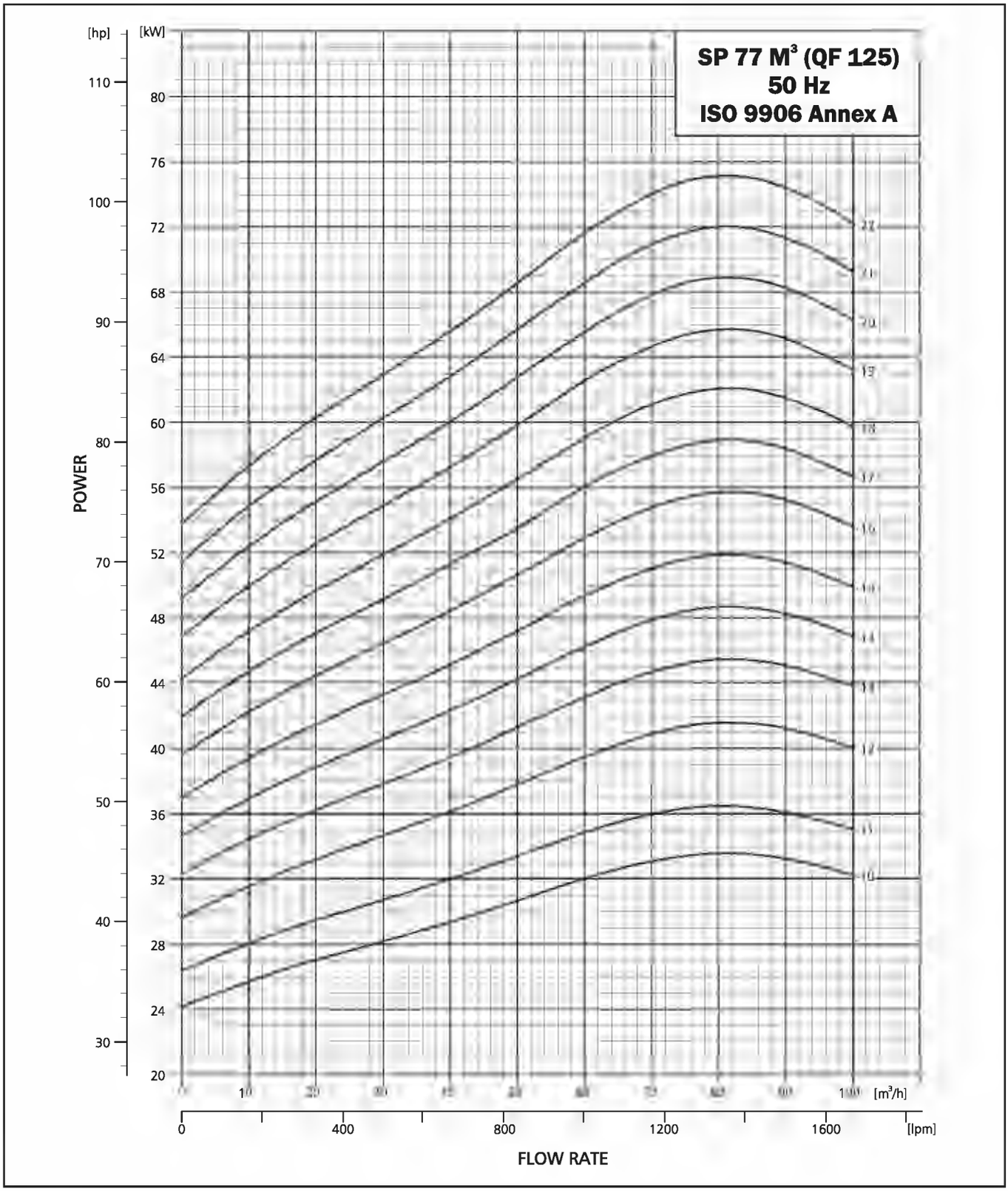
PERFORMANCE TABLE QF 125

QF-125					DISCHARGE (Q)										
			m^3/h		0	10	20	30	40	50	60	70	80	90	100
			l/min.		0	166.7	333.3	500	666.7	833.3	1000	1167	1333	1500	1666.7
MODEL	MATERIAL CODE		MOTOR RATING		TOTAL HEAD IN (m)										
	6x8	8x8	[kW]	[HP]											
QF 125 - 1	9000003280	-	5.5	7.5	21	21	20	18	17	15	14	13	12	10	7
QF 125 - 2-B	9000003301	-	5.5	7.5	33	32	31	29	27	25	22	20	16	12	7
QF 125 - 2	9000003296	-	7.5	10	41	40	39	36	33	31	28	26	23	18	13
QF 125 - 3-B	9000003307	-	9.3	125	53	52	51	48	44	40	37	33	28	22	14
QF 125 - 3	9000003304	-	11	15	61	60	58	55	50	46	42	39	34	28	20
QF 125 - 4-B	9000003310	-	13	18	73	72	70	66	61	56	51	46	40	31	21
QF 125 - 4	9000003308	-	15	20	81	80	78	73	68	62	57	52	46	38	27
QF 125 - 5	9000003311	-	18.5	25	100	100	97	92	85	78	72	66	58	47	34
QF 125 - 6	9000003313	-	22	30	120	120	116	110	102	94	86	78	69	56	41
QF 125 - 7	9000003316	-	26	35	140	140	136	129	119	110	101	92	81	66	48
QF 125 - 8-B	9000003321	-	26	35	152	151	147	139	129	118	108	98	85	68	47
QF 125 - 8	9000003319	9000003320	30	40	160	160	156	147	137	126	116	105	93	76	55
QF 125 - 9	9000003322	9000003323	30	40	179	179	174	164	152	140	129	117	103	85	61
QF 125 - 10	9000008136	9000003282	37	50	200	199	194	184	171	157	145	132	117	96	69
QF 125 - 11	9000003284	9000003285	37	50	218	218	212	201	186	172	158	144	127	104	74
QF 125 - 12	-	9000003287	45	60	242	243	237	225	209	193	178	163	145	120	88
QF 125 - 13	-	9000003289	55	75	264	264	258	245	228	211	195	178	159	132	98
QF 125 - 14	-	9000003290	55	75	283	284	277	263	245	226	209	191	170	141	104
QF 125 - 15	-	9000003291	55	75	303	303	296	281	262	242	223	204	181	150	110
QF 125 - 16	-	9000003292	63	85	324	325	317	301	281	259	239	219	195	162	119
QF 125 - 17	-	9000003293	63	85	343	344	336	319	297	274	253	232	206	171	126
QF 125 - 18	-	9000003294	63	85	363	363	355	337	314	290	267	244	217	180	132
QF 125 - 19	-	9000003295	75	100	383	384	376	357	332	307	283	259	230	191	140
QF 125 - 20	-	9000003297	75	100	402	404	395	375	349	322	297	271	241	200	146
QF 125 - 21	-	9000003298	75	100	422	424	415	393	366	338	310	285	253	208	153
QF 125 - 22	-	9000003299	93	125	441	442	432	410	382	351	324	298	263	216	161

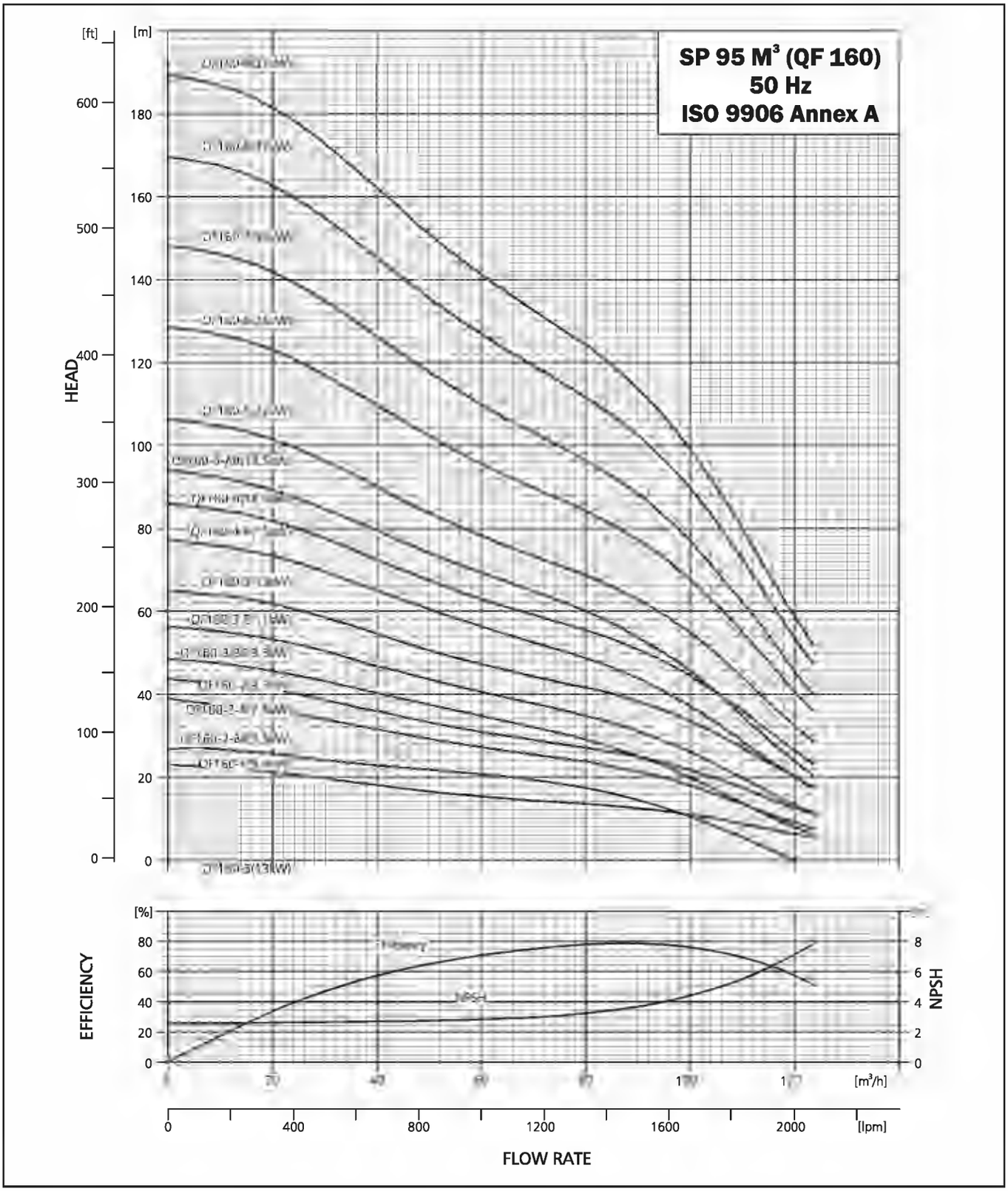
SUBMERSIBLE PUMP QF 125



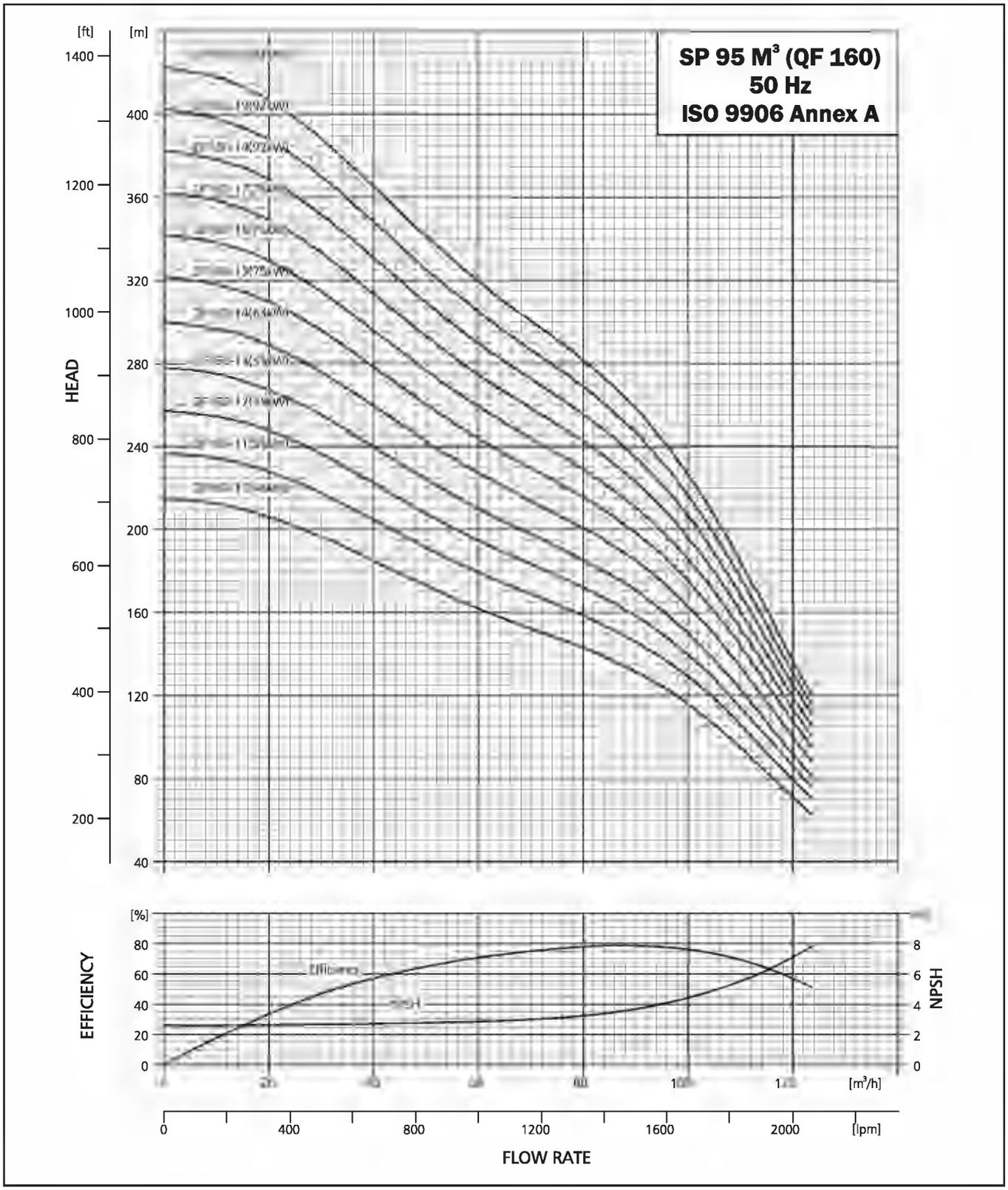
SUBMERSIBLE PUMP QF 125



SUBMERSIBLE PUMP QF 160

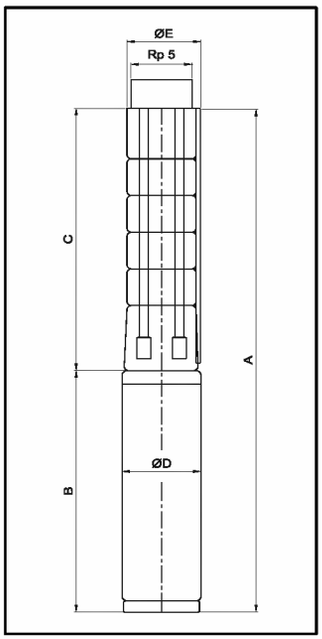


SUBMERSIBLE PUMP QF 160



SUBMERSIBLE PUMP QF 160

DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard & motor.

TECHNICAL DATA QF 160

PUMP TYPE	MOTOR		DIMENSIONS (MM)										NET WEIGHT (KG)	
	TYPE	POWER (kW)	RP 5" CONNECTION				RP 5" FLANGE				B	D	PUMP	MOTOR
			A	C	E*	E**	A	C	E*	E**				
QF160-1	MATASF150	5.5	1325	626	178	186	1325	626	180	185	699	143	21	48
QF160-2-BB	MATASF150	5.5	1453	754	178	186	1453	754	180	185	699	143	24	48
QF160-2-A	MATASF150	7.5	1453	754	178	186	1453	754	180	185	699	143	24	50
QF160-2	MATASF150	9.3	1503	754	178	186	1503	754	180	185	749	143	24	53
QF160-3-BB	MATASF150	9.3	1631	882	178	186	1631	882	180	185	749	143	28	53
QF160-3-B	MATASF150	11	1661	882	178	186	1661	882	180	185	779	143	28	56
QF160-3	MATASF150	13	1711	882	178	186	1711	882	180	185	829	143	28	61
QF160-4-B	MATASF150	15	1884	1010	178	186	1884	1010	180	185	874	143	31	66
QF160-4	MATASF150	18.5	1929	1010	178	186	1929	1010	180	185	919	143	31	70
QF160-5-AB	MATASF150	18.5	2057	1138	178	186	2057	1138	180	185	919	143	35	70
QF160-5	MATASF150	22	2147	1138	178	186	2147	1138	180	185	1009	143	35	79
QF160-6	MATASF150	26	2380	1266	178	186	2380	1266	180	185	1114	143	38	90
QF160-7	MATASF150	30	2608	1394	178	186	2608	1394	180	185	1214	143	38	100
QF160-7	MATASF200	30	2534	1394	196	204	2534	1394	210	210	1140	195	42	140
QF160-8	MATASF200	37	2662	1522	196	204	2662	1522	210	210	1140	195	46	140
QF160-9	MATASF200	37	2880	1650	196	204	2880	1650	210	210	1230	195	49	140
QF160-10	MATASF200	45	3008	1778	196	204	3008	1778	210	210	1230	195	53	156
QF160-11	MATASF200	55	3246	1906	196	204	3246	1906	210	210	1340	195	56	179
QF160-12	MATASF200	55	3374	2034	196	204	3374	2034	210	210	1340	195	60	179
QF160-13	MATASF200	55	3502	2162	196	204	3502	2162	210	210	1340	195	63	179
QF160-14	MATASF200	63	3760	2290	196	204	3760	2290	210	210	1470	195	67	179
QF160-15	MATASF200	75	3978	2418	196	204	-	-	-	-	1560	195	71	215
QF160-16	MATASF200	75	4106	2546	196	204	-	-	-	-	1560	195	74	215
QF160-17	MATASF200	75	4234	2674	196	204	-	-	-	-	1560	195	78	215
QF160-18	MATASF200	93	4542	2802	196	204	-	-	-	-	1740	195	81	247
QF160-19	MATASF200	93	4670	2930	196	204	-	-	-	-	1740	195	85	247
QF160-20	MATASF200	93	4798	3058	196	204	-	-	-	-	1740	195	88	247

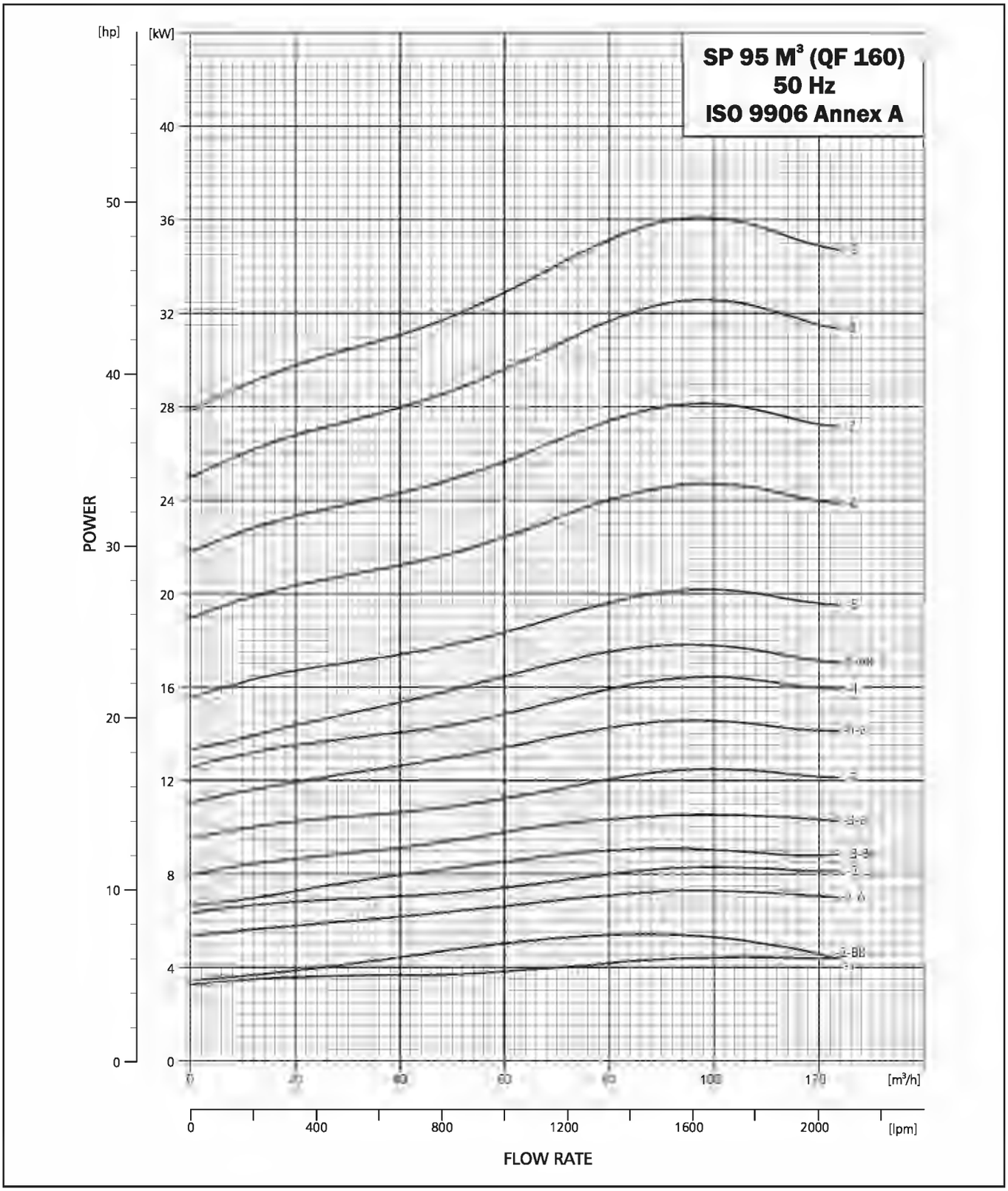
* Maximum diameter of pump with one motor cable.
** Maximum diameter of pump with two motor cable.
Motor type may change as per requirement.
Other type of connection is possible by means of connecting pieces. See page no. 117.

SUBMERSIBLE PUMP QF 160

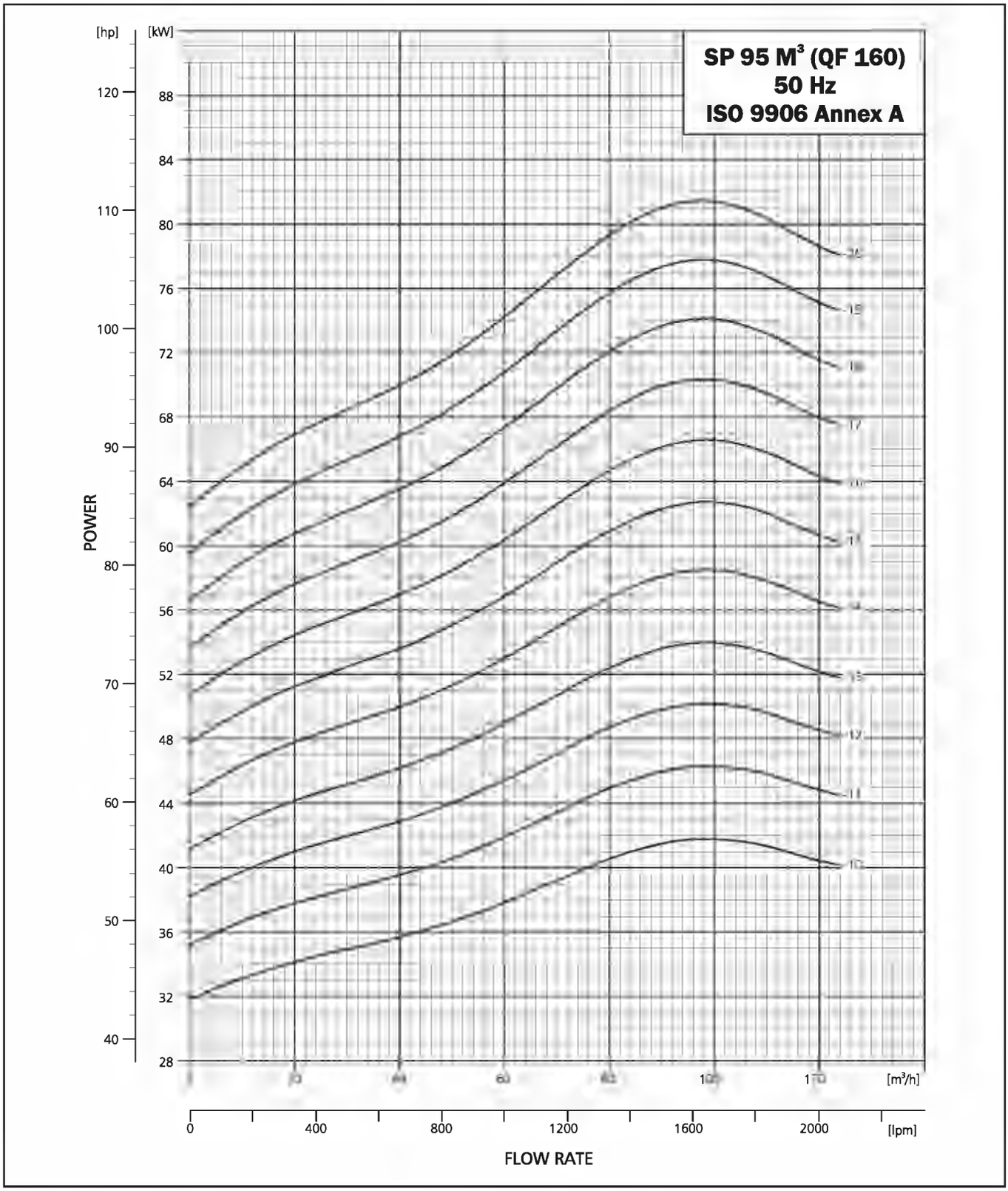
PERFORMANCE TABLE QF 160

QF-160			m^3/h		DISCHARGE (Q)													
					0	10	20	30	40	50	60	70	80	90	100	110	120	122
			l/min.		0	167	333	500	667	833	1000	1167	1333	1500	1667	1833	2000	2033
MODEL	MATERIAL CODE		MOTOR RATING		TOTAL HEAD IN (m)													
	6x8	8x8	[kW]	[HP]														
QF160-1	9000003326	-	5.5	7.5	23	22	21	20	18	17	15	14	13	13	11	9	6	6
QF160-2-BB	9000003353	-	5.5	7.5	27	27	26	24	23	22	21	19	17	14	10	5	0	-
QF160-2-A	9000003347	-	7.5	10	39	37	36	34	32	29	27	26	24	21	18	14	9	8
QF160-2	9000003345	-	9.3	12.5	44	43	41	39	36	33	31	29	27	25	22	17	13	12
QF160-3-BB	9000003358	-	9.3	12.5	49	47	46	43	40	37	35	32	29	25	20	14	8	7
QF160-3-B	9000003357	-	11	15	56	55	53	50	47	44	41	38	35	31	26	20	13	12
QF160-3	9000003355	-	13	17.5	65	64	62	58	55	51	47	44	42	38	33	27	20	19
QF160-4-B	9000003363	-	15	20	77	76	73	70	65	60	56	53	49	44	37	29	20	18
QF160-4	9000003360	-	18.5	25	86	84	82	78	73	67	63	59	55	51	44	36	26	25
QF160-5-AB	9000003368	-	18.5	25	94	92	89	85	79	74	69	65	60	54	45	35	24	22
QF160-5	9000003365	-	22	30	106	105	101	96	90	84	78	73	69	63	55	44	32	30
QF160-6	9000003372	-	26	35	129	127	123	117	110	102	96	90	84	77	68	55	41	38
QF160-7	9000003377	-	30	40	148	146	142	135	126	118	110	103	96	88	77	62	46	43
QF160-8	9000003380	9000003382	37	50	170	167	163	155	145	136	127	119	112	102	90	73	54	50
QF160-9	9000011943	9000003384	37	50	189	187	182	173	162	151	141	133	124	114	99	80	59	55
QF160-10	-	9000003328	45	60	214	212	206	197	185	173	162	152	143	132	116	95	71	66
QF160-11	-	9000003330	55	75	237	234	228	217	205	191	179	169	158	146	129	106	79	74
QF160-12	-	9000003332	55	75	257	254	248	236	222	208	195	183	172	158	140	115	86	80
QF160-13	-	9000003334	55	75	278	275	267	255	240	224	210	198	185	170	150	123	92	86
QF160-14	-	9000003335	63	85	300	297	289	276	259	243	227	214	201	185	163	134	100	93
QF160-15	-	9000003336	75	100	321	318	310	296	278	260	244	230	215	198	175	144	107	100
QF160-16	-	9000003337	75	100	342	338	329	314	296	277	259	244	229	211	186	152	114	106
QF160-17	-	9000003338	75	100	362	358	349	333	313	293	275	258	242	223	196	160	120	112
QF160-18	-	9000003339	93	125	382	378	368	352	331	309	290	272	255	235	206	169	125	117
QF160-19	-	9000003340	93	125	402	398	388	370	348	325	305	287	269	247	216	177	131	122
QF160-20	-	9000003346	93	125	423	418	407	388	365	341	320	301	281	258	226	184	137	128

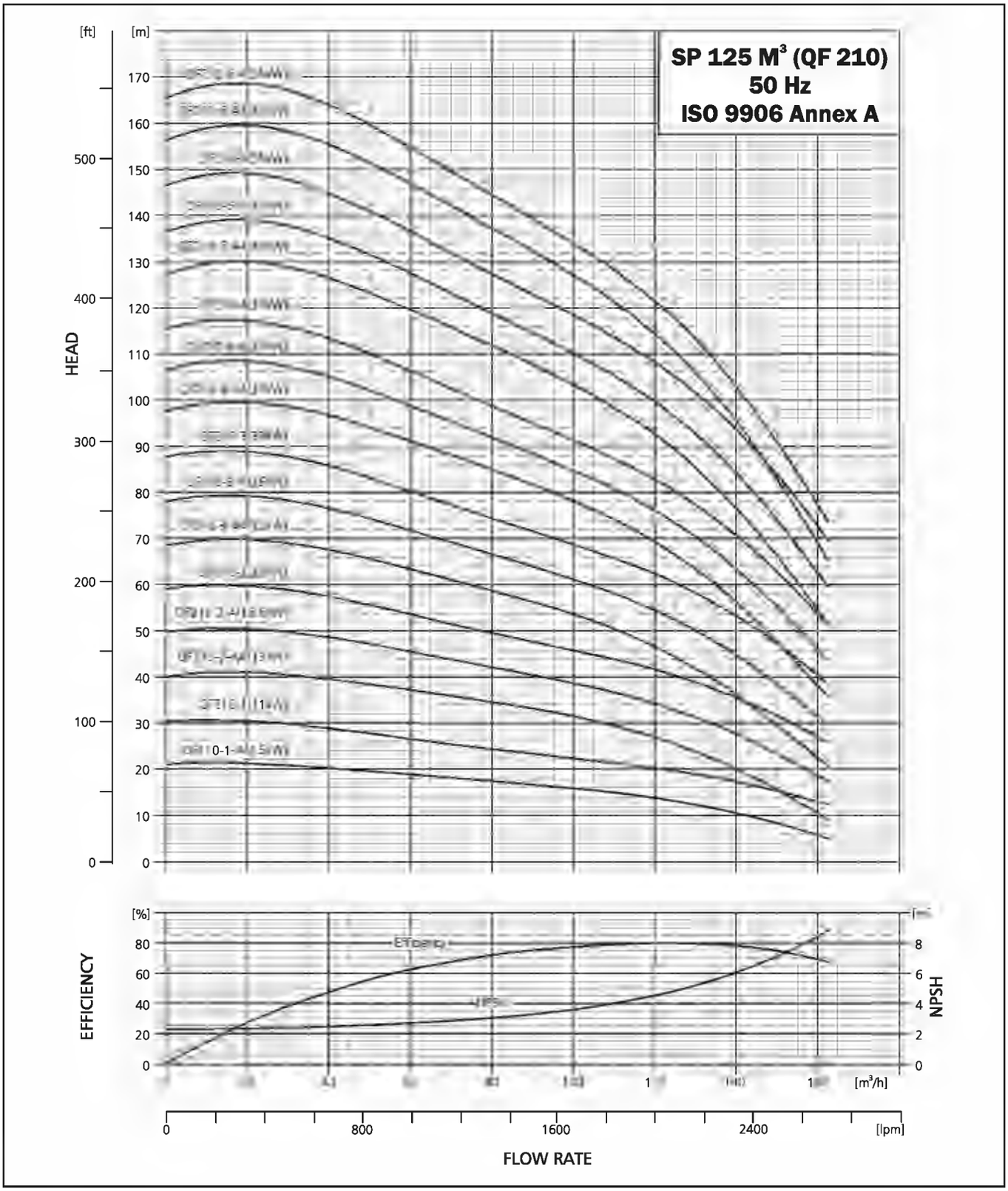
SUBMERSIBLE PUMP QF 160



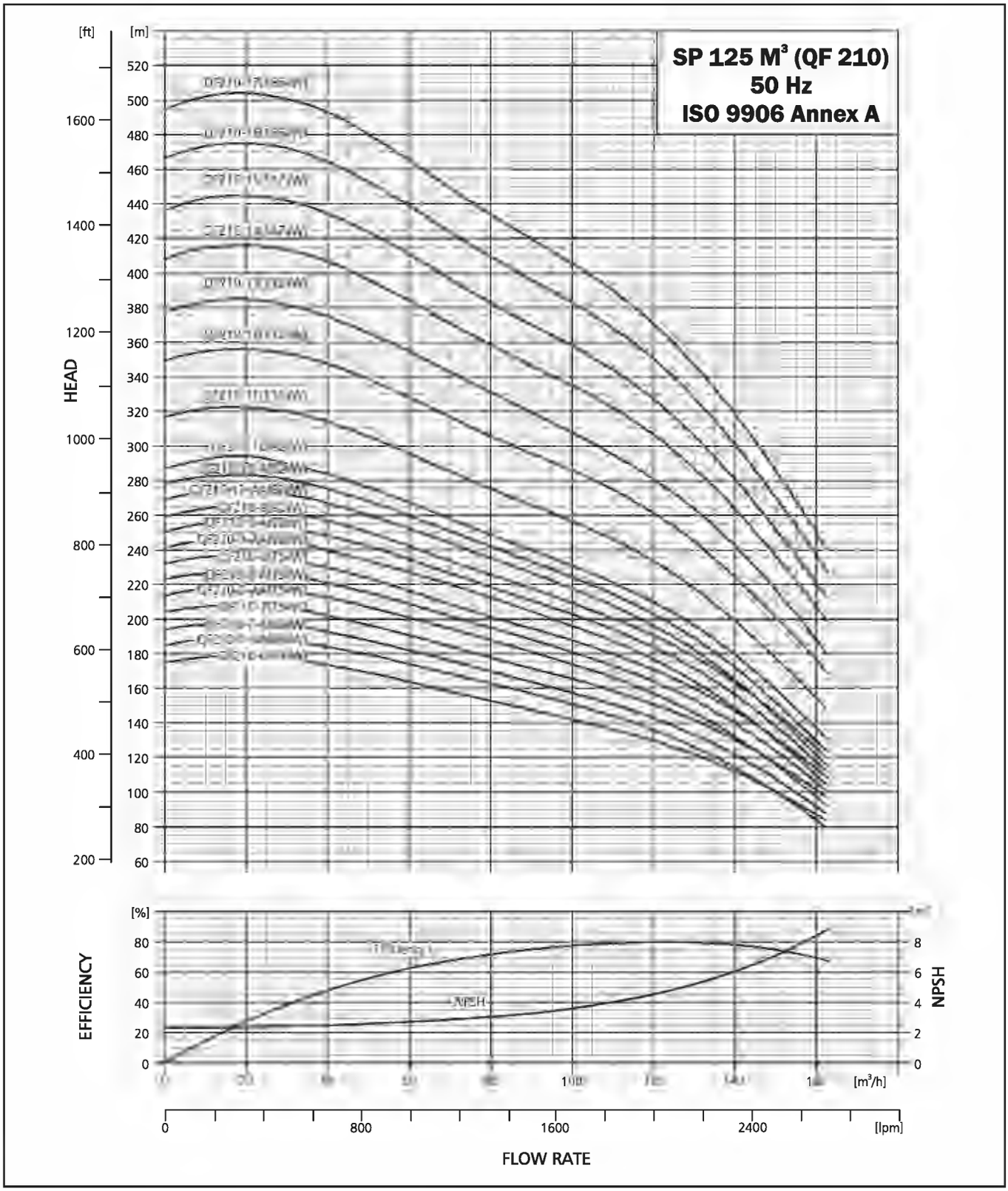
SUBMERSIBLE PUMP QF 160



SUBMERSIBLE PUMP QF 210

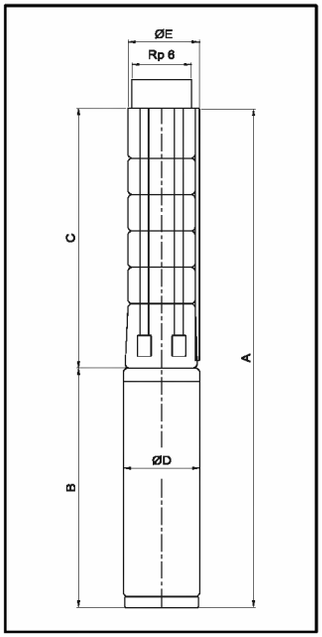


SUBMERSIBLE PUMP QF 210



SUBMERSIBLE PUMP QF 210

DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard & motor.

TECHNICAL DATA QF 210

PUMP TYPE	MOTOR		DIMENSIONS (MM)										NET WEIGHT (KG)	
	TYPE	POWER (kW)	RP 5" CONNECTION				RP 5" FLANGE				B	D	PUMP	MOTOR
			A	C	E*	E**	A	C	E*	E**				
QF210-1A	MATASF 150	7.5	1360	641	211	218	1360	641	222	226	719	143	27	50
QF210-1	MATASF 150	11	1420	641	211	218	1420	641	222	226	779	143	27	53
QF210-2AA	MATASF 150	13	1626	797	211	218	1626	797	222	226	829	143	33	61
QF210-2A	MATASF 150	18.5	1716	797	211	218	1716	797	222	226	919	143	33	70
QF210-2	MATASF 150	22	1806	797	213	218	1806	797	222	226	1009	143	33	79
QF210-3AA	MATASF 150	22	1962	953	213	218	1962	953	222	226	1009	143	39	79
QF210-3A	MATASF 150	26	2067	953	213	218	2067	953	222	226	1114	143	39	90
QF210-3	MATASF 150	30	2167	953	213	218	2167	953	222	226	1214	143	39	100
QF210-3	MATASF 200	30	2093	953	213	218	2093	953	222	226	1140	194	39	140
QF210-4AA	MATASF 200	37	2249	1109	213	218	2249	1109	222	226	1140	194	45	140
QF210-4A	MATASF 200	37	2249	1109	213	218	2249	1109	222	226	1140	194	45	140
QF210-4	MATASF 200	37	2249	1109	213	218	2249	1109	222	226	1140	194	45	140
QF210-5AA	MATASF 200	45	2495	1265	213	218	2495	1265	222	226	1230	194	51	156
QF210-5A	MATASF 200	45	2495	1265	213	218	2495	1265	222	226	1230	194	51	156
QF210-5	MATASF 200	55	2605	1265	213	218	2605	1265	222	226	1340	194	51	179
QF210-6AA	MATASF 200	55	2761	1421	213	218	2761	1421	222	226	1340	194	57	179
QF210-6A	MATASF 200	55	2761	1421	213	218	2761	1421	222	226	1340	194	57	179
QF210-6	MATASF 200	63	2891	1421	218	227	2891	1421	229	232	1470	194	57	198
QF210-7AA	MATASF 200	63	3047	1577	218	227	3047	1577	229	232	1470	194	63	198
QF210-7A	MATASF 200	63	3047	1577	218	227	3047	1577	229	232	1470	194	63	198
QF210-7	MATASF 200	75	3137	1577	218	227	3137	1577	229	232	1560	194	63	215
QF210-8AA	MATASF 200	75	3293	1733	218	227	-	-	-	-	1560	194	70	215
QF210-8A	MATASF 200	75	3293	1733	218	227	-	-	-	-	1560	194	70	215
QF210-8	MATASF 200	75	3293	1733	218	227	-	-	-	-	1560	194	70	215
QF210-9AA	MATASF 200	93	3629	1889	218	227	-	-	-	-	1740	194	76	247
QF210-9A	MATASF 200	93	3629	1889	218	227	-	-	-	-	1740	194	76	247
QF210-9	MATASF 200	93	3629	1889	218	227	-	-	-	-	1740	194	76	247
QF210-10AA	MATASF 200	93	3785	2045	218	227	-	-	-	-	1740	194	82	247
QF210-10A	MATASF 200	93	3785	2045	218	227	-	-	-	-	1740	194	82	247
QF210-10	MATASF 200	93	3785	2045	218	227	-	-	-	-	1740	194	82	247
QF210-11	MATASF 10"	110	4961	2201	237	237	-	-	-	-	2760	237	91	310
QF210-12	MATASF 10"	130	5378	2357	237	237	-	-	-	-	3021	237	97	320
QF210-13	MATASF 10"	130	5534	2513	237	237	-	-	-	-	3021	235	104	320
QF210-14	MATASF 10"	150	5910	2669	237	237	-	-	-	-	3241	237	110	320
QF210-15	MATASF 10"	150	6066	2825	237	237	-	-	-	-	3241	237	116	320
QF210-16	MATASF 10"	185	6522	2981	237	237	-	-	-	-	3541	237	122	430
QF210-17	MATASF 10"	185	6678	3137	237	237	-	-	-	-	3541	237	128	430

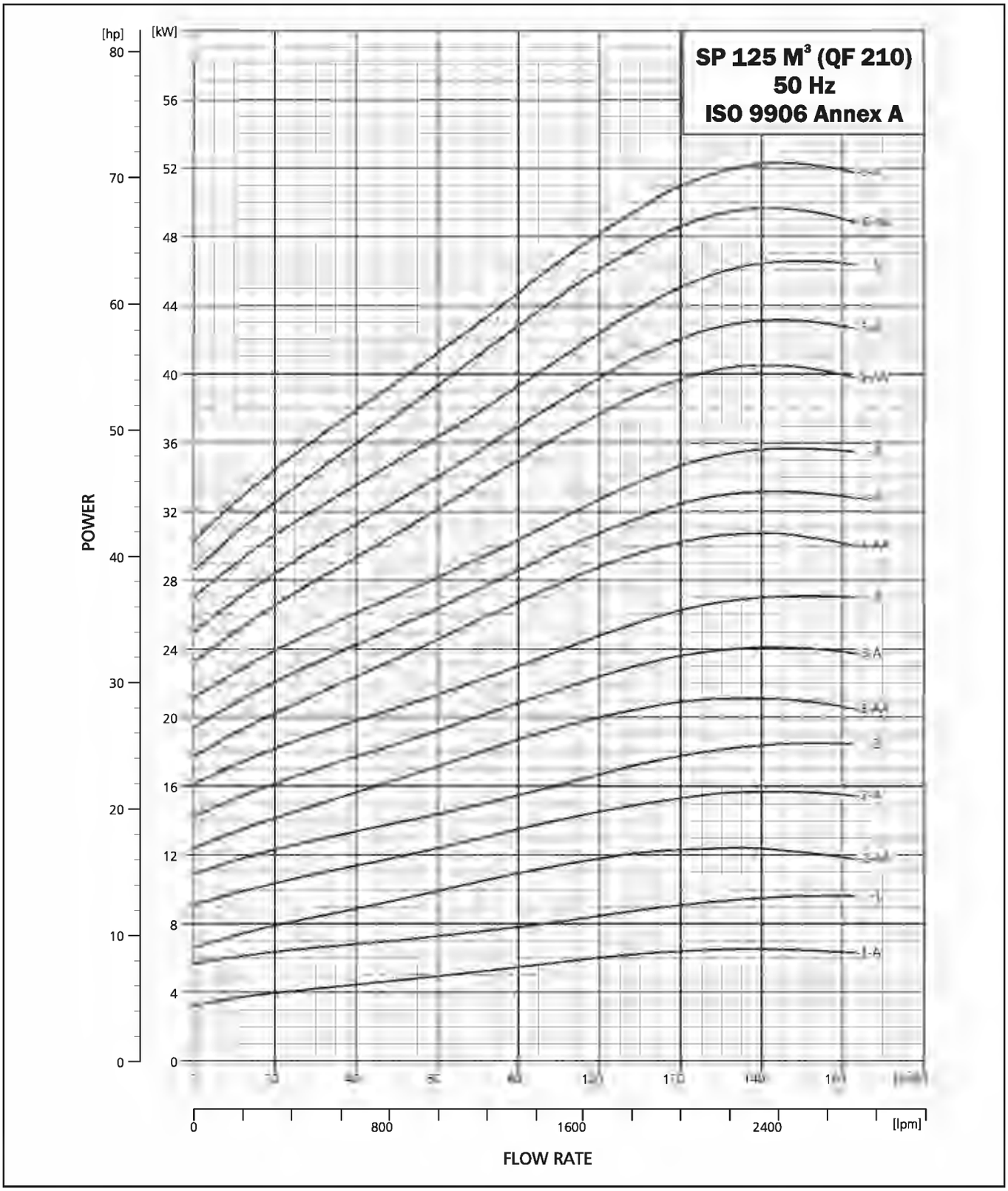
Maximum diameter of pump with one motor cable.
Maximum diameter of pump with two motor cable.
Motor type may change as per requirement.

SUBMERSIBLE PUMP QF 210

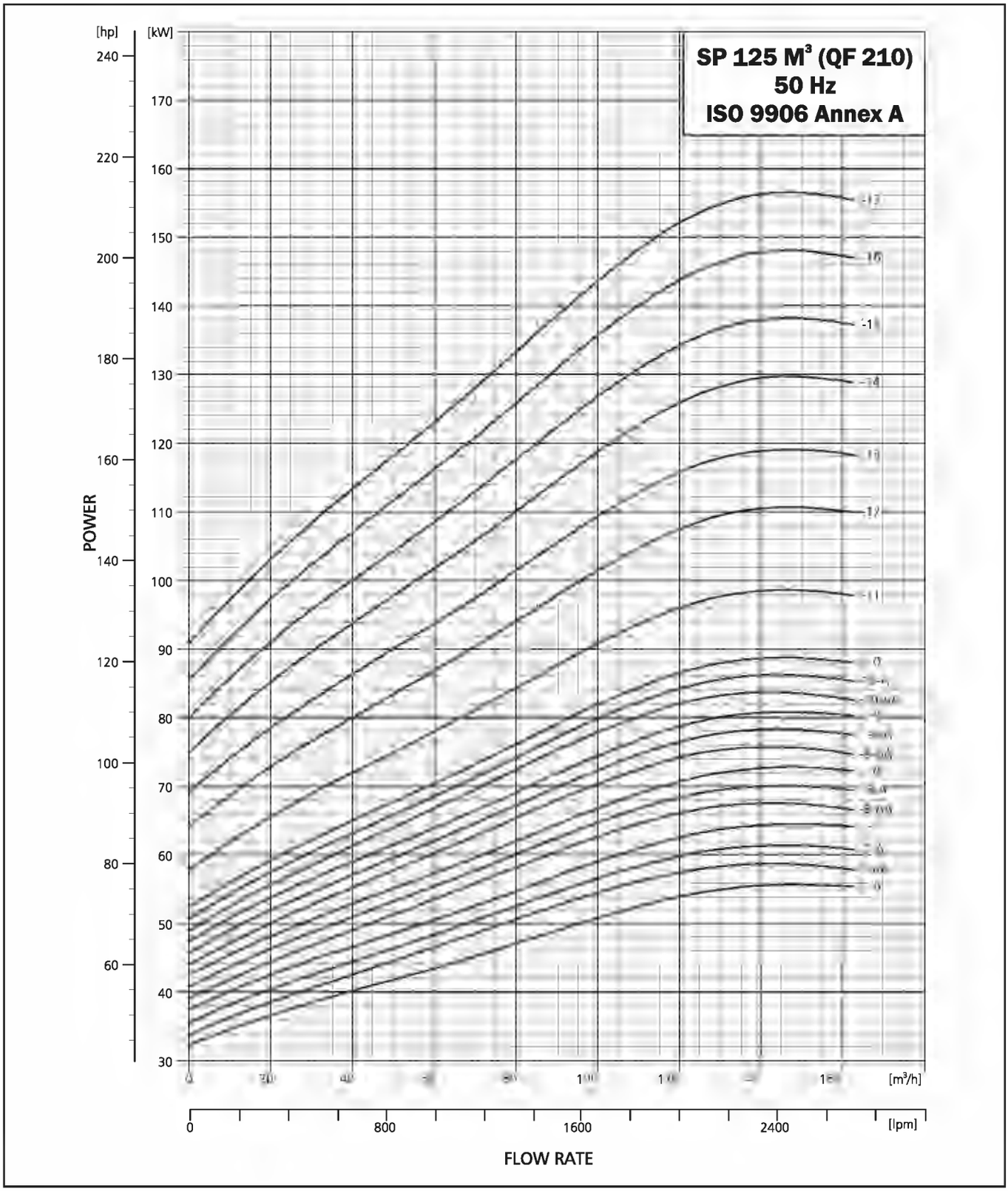
PERFORMANCE TABLE QF 210

QF-210				m^3/h		DISCHARGE (Q)												
				l/min.		0	1000	1167	1333	1500	1667	1833	2000	2167	2333	2500	2667	2700
MODEL	MATERIAL CODE			MOTOR RATING		TOTAL HEAD IN (m)												
	6x10	8x10	10x10	[kW]	[HP]													
QF210-1A	9000003398	-	-	7.5	10	21	19	18	17	17	16	15	14	12	10	8	6	5
QF210-1	9000003386	-	-	11	15	30	27	25	24	23	22	21	20	19	17	15	13	13
QF210-2AA	9000003406	-	-	13	17.5	40	37	36	35	33	31	29	27	24	20	16	11	10
QF210-2A	9000003404	-	-	18.5	25	50	45	44	42	40	39	37	34	31	28	23	19	18
QF210-2	9000003402	-	-	22	30	59	54	52	50	48	46	44	42	39	35	32	27	26
QF210-3AA	9000003415	-	-	22	30	69	63	61	59	56	54	50	47	42	36	30	22	21
QF210-3A	9000003413	-	-	26	35	78	72	69	67	64	61	58	54	50	45	38	31	30
QF210-3	9000003409	9000003410	-	30	40	88	80	77	74	72	69	66	62	58	53	47	40	39
QF210-4AA	9000003422	9000003424	-	37	50	98	91	88	85	82	78	74	69	63	56	48	38	36
QF210-4A	9000011364	9000003421	-	37	50	107	99	95	92	88	85	81	76	70	63	55	46	44
QF210-4	9000003418	9000003419	-	37	50	116	106	102	99	95	91	87	83	77	71	63	54	52
QF210-5AA	-	9000003429	-	45	60	127	120	116	112	108	103	98	93	85	77	66	54	52
QF210-5A	-	9000003428	-	45	60	136	127	123	119	115	110	105	100	93	84	74	63	60
QF210-5	-	9000003426	-	55	75	146	137	132	127	123	118	114	108	102	93	84	72	70
QF210-6AA	-	9000003436	-	55	75	156	147	142	137	132	127	121	114	106	95	83	69	66
QF210-6A	-	9000003434	-	55	75	165	155	150	144	139	134	128	121	113	103	91	77	74
QF210-6	-	9000003432	-	63	85	175	164	158	153	147	142	136	130	122	112	100	87	84
QF210-7AA	-	9000003442	-	63	85	185	174	168	163	157	151	144	136	126	114	100	83	80
QF210-7A	-	9000003440	-	63	85	194	182	176	170	164	158	151	143	133	122	107	92	88
QF210-7	-	9000003438	-	75	100	204	191	184	178	172	165	159	151	142	130	117	101	97
QF210-8AA	-	9000003447	-	75	100	214	201	194	188	181	174	166	157	146	132	116	97	93
QF210-8A	-	9000003445	-	75	100	223	209	202	195	188	181	173	164	153	139	123	105	101
QF210-8	-	9000003443	-	75	100	232	216	209	202	195	188	180	171	160	147	131	113	109
QF210-9AA	-	9000003451	-	93	125	241	227	219	212	204	196	187	177	164	149	130	110	105
QF210-9A	-	9000003450	-	93	125	250	234	226	219	211	203	194	184	171	156	138	117	113
QF210-9	-	9000003449	-	93	125	260	242	234	226	218	209	201	191	178	163	146	125	121
QF210-10AA	-	9000003389	-	93	125	269	252	244	235	227	218	208	196	182	165	144	121	117
QF210-10A	-	9000003388	-	93	125	278	260	251	242	233	224	214	203	189	172	152	129	124
QF210-10	-	9000003387	-	93	125	287	267	258	249	240	231	221	210	196	179	159	137	132
QF210-11	-	-	9000013534	110	150	316	294	284	274	264	254	243	231	216	197	175	151	145
QF210-12	-	-	9000003391	132	177	345	321	310	299	288	277	265	252	236	215	191	165	158
QF210-13	-	-	9000010341	132	177	377	353	342	330	320	307	295	280	262	242	215	188	185
QF210-14	-	-	9000003393	147	204	406	380	368	355	345	331	318	302	282	261	232	202	199
QF210-15	-	-	9000003394	147	204	435	407	395	381	369	354	340	323	302	279	248	217	213
QF210-16	-	-	9000003395	185	252	464	434	421	406	394	378	363	345	322	298	265	231	228
QF210-17	-	-	9000003396	185	252	493	462	447	432	418	401	386	366	343	316	281	246	242

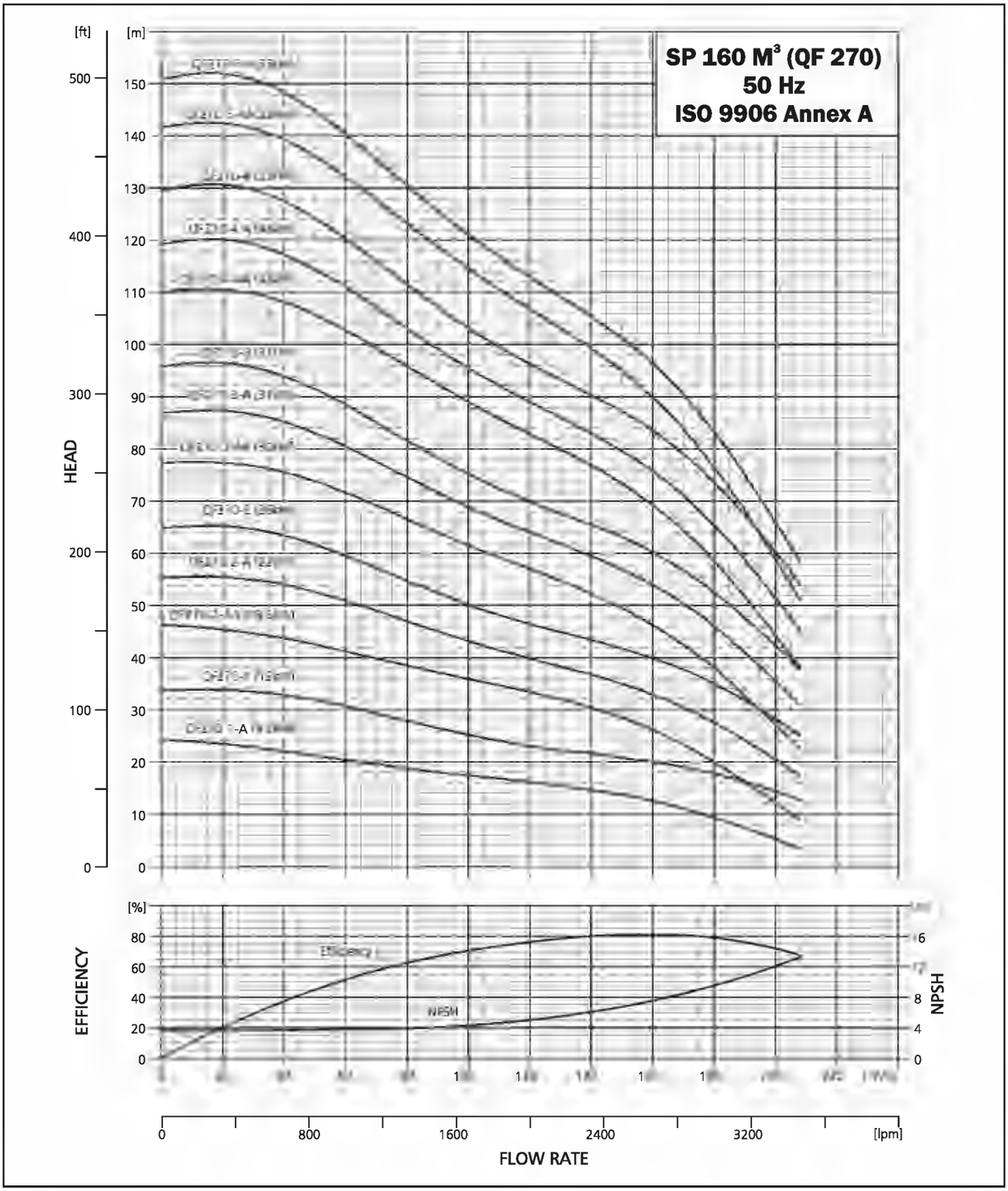
SUBMERSIBLE PUMP QF 210



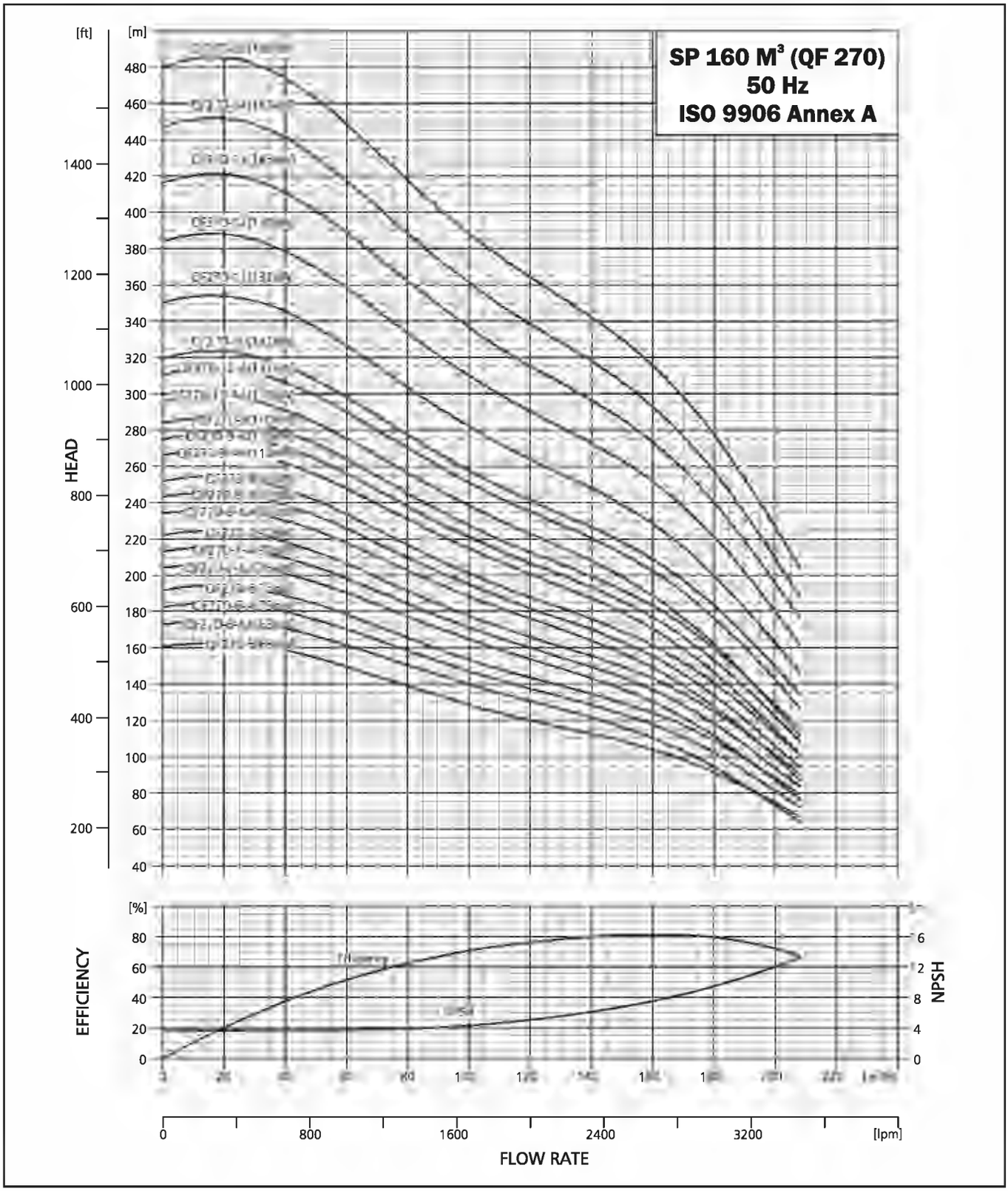
SUBMERSIBLE PUMP QF 210



SUBMERSIBLE PUMP QF 270

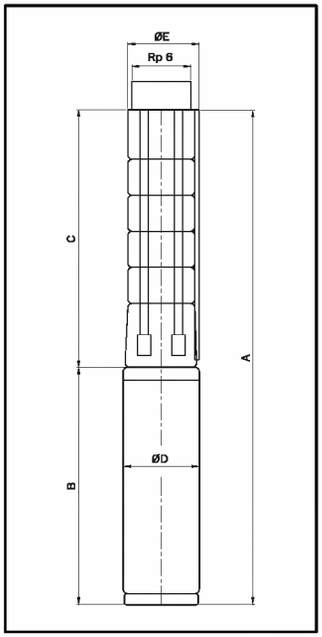


SUBMERSIBLE PUMP QF 270



SUBMERSIBLE PUMP QF 270

DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard & motor.

TECHNICAL DATA QF 270

PUMP TYPE	MOTOR		DIMENSIONS (MM)										NET WEIGHT (KG)	
	TYPE	POWER (kW)	RP 6" CONNECTION				6" FLANGE				B	D	PUMP	MOTOR
			A	C	E*	E**	A	C	E*	E**				
QF270-1A	MATASF 150	9.3	1390	641	211	218	1390	641	222	226	749	143	26	50
QF270-1	MATASF 150	13	1470	641	211	218	1470	641	222	226	829	143	26	61
QF270-2AA	MATASF 150	18.5	1716	797	211	218	1716	797	222	226	919	143	33	70
QF270-2A	MATASF 150	22	1806	797	211	218	1806	797	222	226	1009	143	33	79
QF270-2	MATASF 150	26	1911	797	213	218	1911	797	222	226	1114	143	33	90
QF270-3AA	MATASF 150	30	2167	953	213	218	2167	953	222	226	1214	143	39	100
QF270-3AA	MATASF 200	30	2093	953	213	218	2093	953	222	226	1140	195	39	140
QF270-3A	MATASF 200	37	2093	953	213	218	2093	953	222	226	1140	195	39	140
QF270-3	MATASF 200	37	2093	953	213	218	2093	953	222	226	1140	195	39	140
QF270-4AA	MATASF 200	45	2339	1109	213	218	2339	1109	222	226	1230	195	45	156
QF270-4A	MATASF 200	45	2339	1109	213	218	2339	1109	222	226	1230	195	45	156
QF270-4	MATASF 200	55	2449	1109	213	218	2449	1109	222	226	1340	195	45	179
QF270-5AA	MATASF 200	55	2605	1265	213	218	2605	1265	222	226	1340	195	51	179
QF270-5A	MATASF 200	55	2605	1265	213	218	2605	1265	222	226	1340	195	51	179
QF270-5	MATASF 200	63	2735	1265	213	218	2735	1265	222	226	1470	195	51	198
QF270-6AA	MATASF 200	63	2891	1421	213	218	2891	1421	222	226	1470	195	58	198
QF270-6A	MATASF 200	75	2981	1421	213	218	2981	1421	222	226	1560	195	58	215
QF270-6	MATASF 200	75	2981	1421	218	227	2981	1421	229	232	1560	195	58	215
QF270-7AA	MATASF 200	75	3137	1577	218	227	-	-	-	-	1560	195	64	215
QF270-7A	MATASF 200	93	3317	1577	218	227	-	-	-	-	1740	195	64	247
QF270-7	MATASF 200	93	3317	1577	218	227	-	-	-	-	1740	195	64	247
QF270-8AA	MATASF 200	93	3473	1733	218	227	-	-	-	-	1740	195	70	247
QF270-8A	MATASF 200	93	3473	1733	218	227	-	-	-	-	1740	195	70	247
QF270-8	MATASF 200	93	3473	1733	218	227	-	-	-	-	1740	195	70	247
QF270-9AA	MATASF 10"	110	4650	1889	218	227	-	-	-	-	2761	195	80	310
QF270-9A	MATASF 10"	110	4650	1889	218	227	-	-	-	-	2761	195	80	310
QF270-9	MATASF 10"	110	4650	1889	218	227	-	-	-	-	2761	195	80	310
QF270-10AA	MATASF 10"	110	4806	2045	218	227	-	-	-	-	2761	195	86	310
QF270-10A	MATASF 10"	132	5066	2045	218	227		-	-	-	3021	235	86	320
QF270-10	MATASF 10"	132	5066	2045	218	227	-	-	-	-	3021	235	86	320
QF270-11	MATASF 10"	132	5222	2201	237	237	-	-	-	-	3021	235	93	320
QF270-12	MATASF 10"	150	5598	2357	237	237	-	-	-	-	3241	237	99	320
QF270-13	MATASF 10"	185	6054	2513	237	237	-	-	-	-	3541	237	105	430
QF270-14	MATASF 10"	185	6210	2669	237	237	-	-	-	-	3541	237	111	430

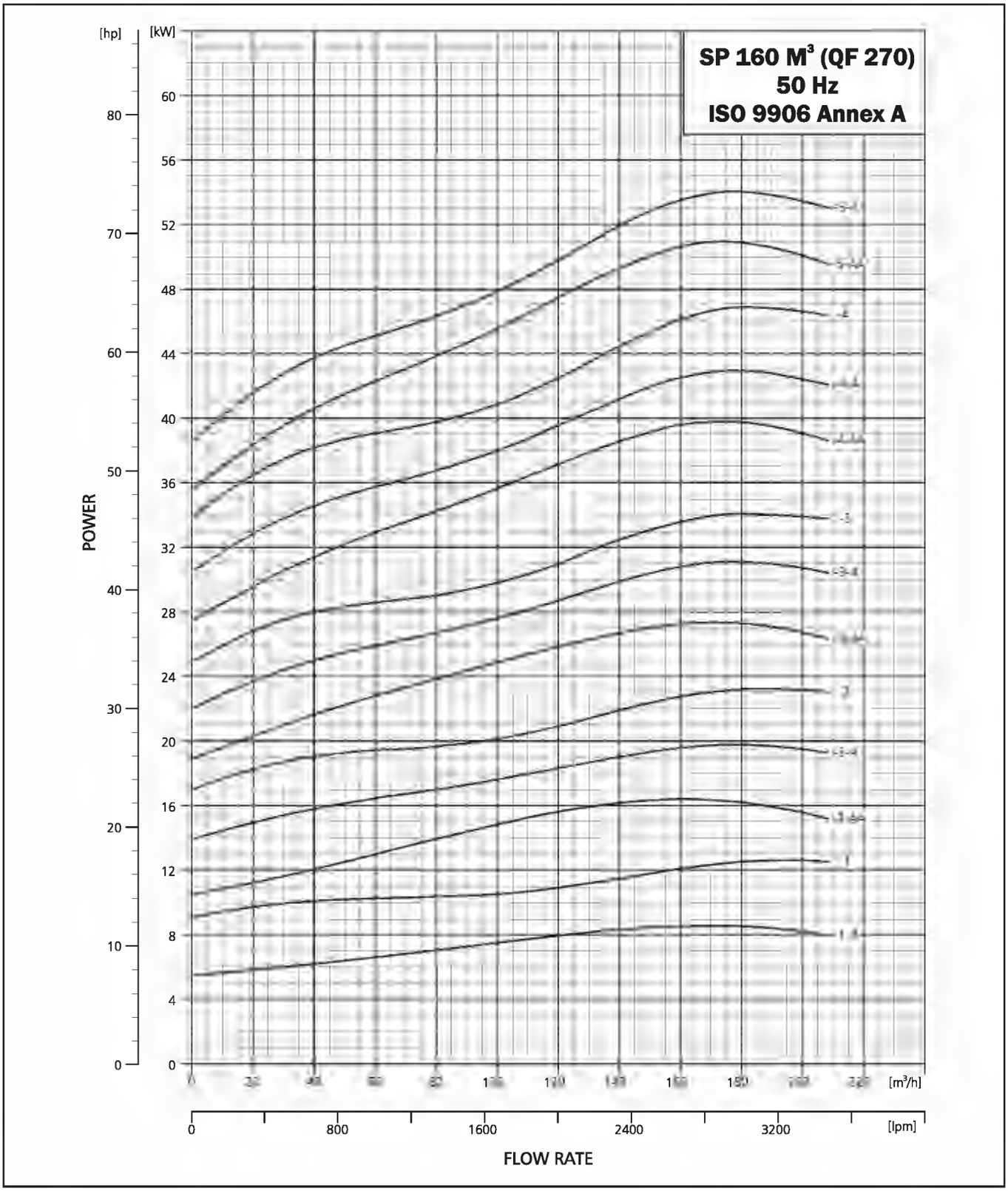
* Maximum diameter of pump with one motor cable.
** Maximum diameter of pump with two motor cable.
Motor type may change as per requirement.

SUBMERSIBLE PUMP QF 270

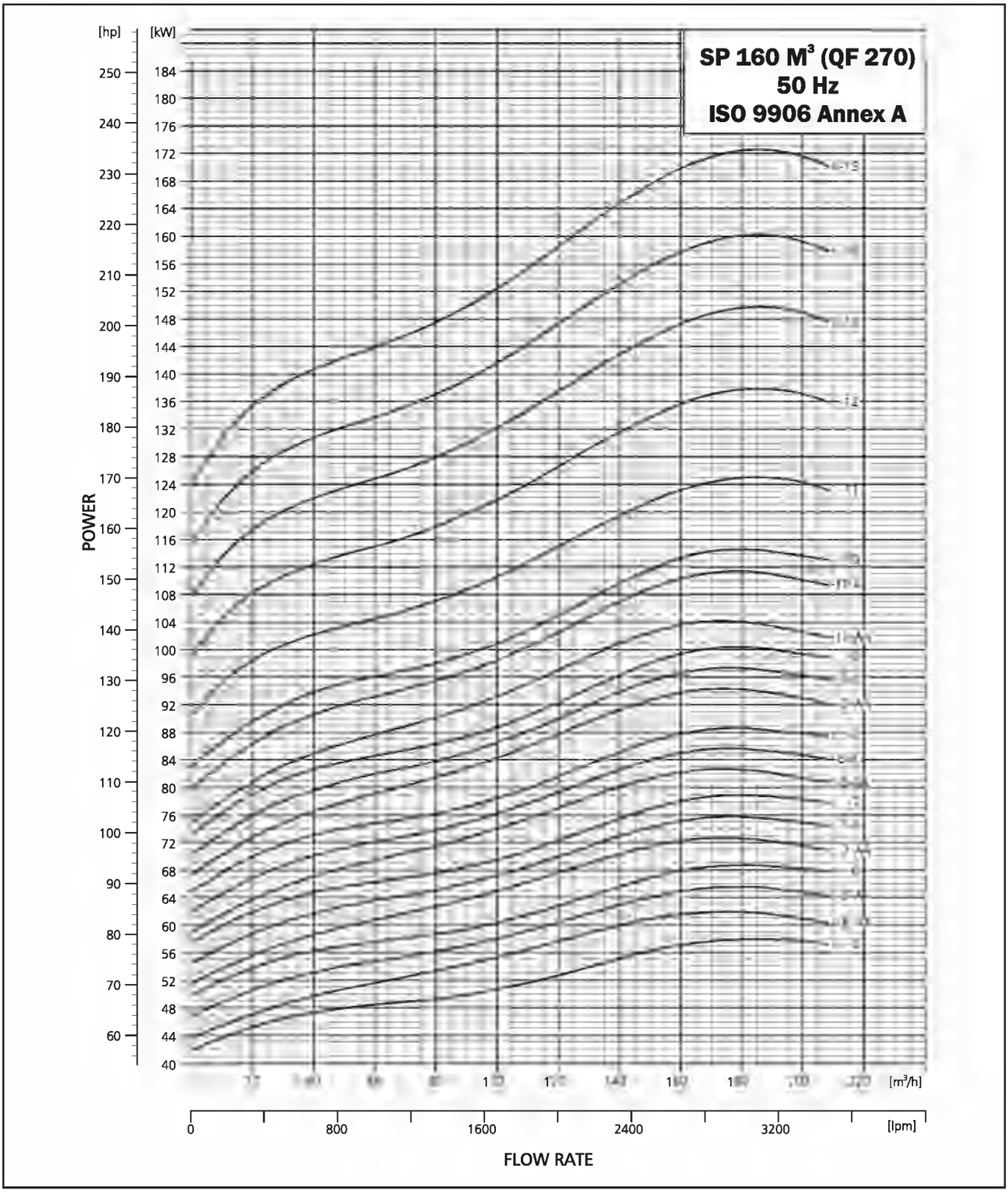
PERFORMANCE TABLE QF 270

QF-270					DISCHARGE (Q)															
					m^3/h		0	80	90	100	110	120	130	140	150	160	170	180	190	200	208
					l/min.		0	1333	1500	1667	1833	2000	2167	2333	2500	2667	2833	3000	3167	3333	3467
MODEL	CONNECTION	MATERIAL CODE			MOTOR RATING		TOTAL HEAD IN (m)														
		6x10	8x10	10x10	[kW]	[HP]															
QF270-1A		9000003467	-	-	9.3	12.5	24	19	18	17	17	16	15	15	14	13	11	9	7	5	3
QF270-1		9000003453	-	-	13	17.5	34	28	26	25	24	23	22	22	21	20	19	18	16	14	13
QF270-2AA		9000003476	-	-	18.5	25	46	38	37	36	35	33	32	30	29	26	23	20	16	12	9
QF270-2A		9000003474	-	-	22	30	55	47	45	43	41	40	38	37	35	33	31	28	24	20	17
QF270-2		9000003471	-	-	26	35	65	55	52	50	48	47	45	43	42	40	38	35	32	28	25
QF270-3AA		9000003484	9000003485	-	30	40	77	67	64	62	59	57	55	52	49	46	42	38	33	27	23
QF270-3A		9000009778	9000003482	-	37	50	87	75	72	69	66	64	62	59	57	54	50	46	41	35	31
QF270-3		9000003479	9000003480	-	37	50	96	82	78	75	72	70	68	65	63	60	57	53	48	42	38
QF270-4AA		-	9000003491	-	45	60	110	96	92	89	86	83	80	77	73	69	64	58	52	44	38
QF270-4A		-	9000003490	-	45	60	119	103	99	95	92	89	86	83	80	76	71	65	59	51	45
QF270-4		-	9000003488	-	55	75	129	111	107	103	100	96	93	90	87	83	79	74	67	60	54
QF270-5AA		-	9000003498	-	55	75	142	123	119	114	111	107	103	99	95	90	84	76	68	59	51
QF270-5A		-	9000003497	-	55	75	151	130	126	121	117	113	109	105	101	96	90	83	75	66	58
QF270-5		-	9000003495	-	63	85	161	139	133	129	124	120	116	113	109	104	98	91	83	74	67
QF270-6AA		-	9000003502	-	63	85	173	150	145	140	135	131	126	121	116	110	103	94	84	73	64
QF270-6A	Rp6	-	9000003501	-	75	100	183	158	153	147	142	137	133	128	123	118	111	102	92	81	72
QF270-6		-	9000003500	-	75	100	192	166	159	154	148	144	139	135	130	124	117	109	99	88	79
QF270-7AA		-	9000003505	-	75	100	204	177	171	165	159	154	149	143	137	130	122	112	100	87	76
QF270-7A		-	9000003504	-	93	125	213	184	177	171	165	160	155	149	144	137	128	118	107	94	84
QF270-7		-	9000003503	-	93	125	222	191	184	177	171	166	161	155	150	143	135	125	113	101	91
QF270-8AA		-	9000003508	-	93	125	234	203	195	188	182	176	170	164	157	149	139	127	114	99	87
QF270-8A		-	9000003507	-	93	125	243	210	202	195	188	182	176	170	163	155	145	134	121	106	94
QF270-8		-	9000003506	-	93	125	252	217	208	201	194	188	182	176	169	161	152	140	127	113	101
QF270-9AA		-	-	9000003511	110	150	266	231	223	215	207	201	194	187	179	170	159	146	131	115	102
QF270-9A		-	-	9000003510	110	150	275	238	229	221	214	207	200	193	186	177	166	153	138	122	109
QF270-9		-	-	9000003509	110	150	284	245	236	227	220	213	206	199	192	183	172	160	145	129	116
QF270-10AA		-	-	9000004612	110	150	296	257	248	239	230	223	216	208	199	189	177	162	145	128	113
QF270-10A		-	-	9000003455	132	177	306	264	254	246	238	230	222	214	207	197	184	170	153	135	121
QF270-10		-	-	9000003454	132	177	316	272	262	252	244	237	229	221	213	203	191	178	161	143	129
QF270-11		-	-	9000003459	132	177	348	299	288	277	268	261	252	243	234	223	210	196	177	157	142
QF270-12		-	-	9000003460	150	204	384	332	320	310	300	290	280	272	262	252	237	220	202	180	162
QF270-13		-	-	9000003462	185	252	416	360	347	336	325	314	303	295	284	273	257	238	219	195	176
QF 270-14		-	-	9000003464	185	252	414	357	345	334	323	312	301	293	282	271	255	237	217	194	174

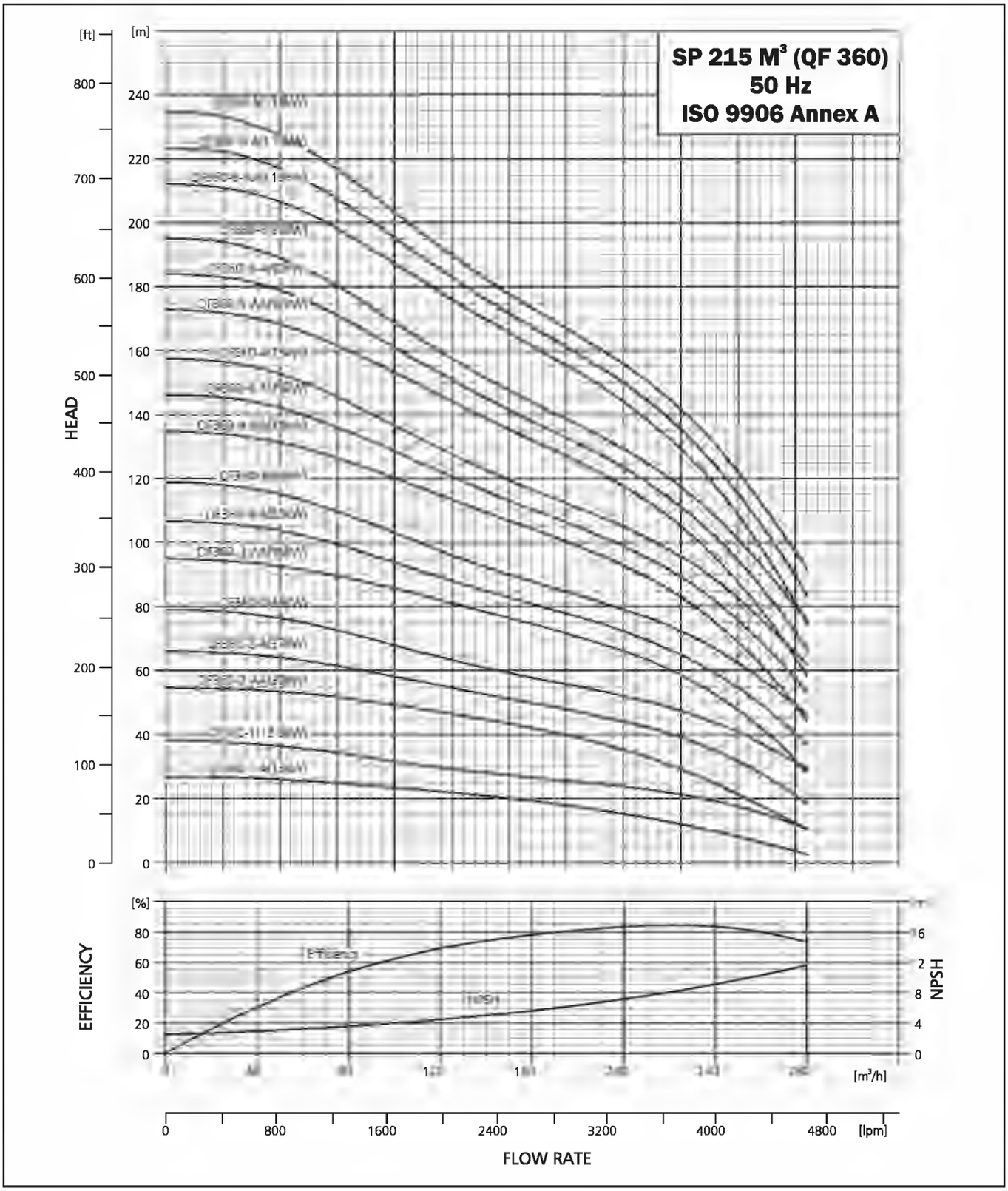
SUBMERSIBLE PUMP QF 270



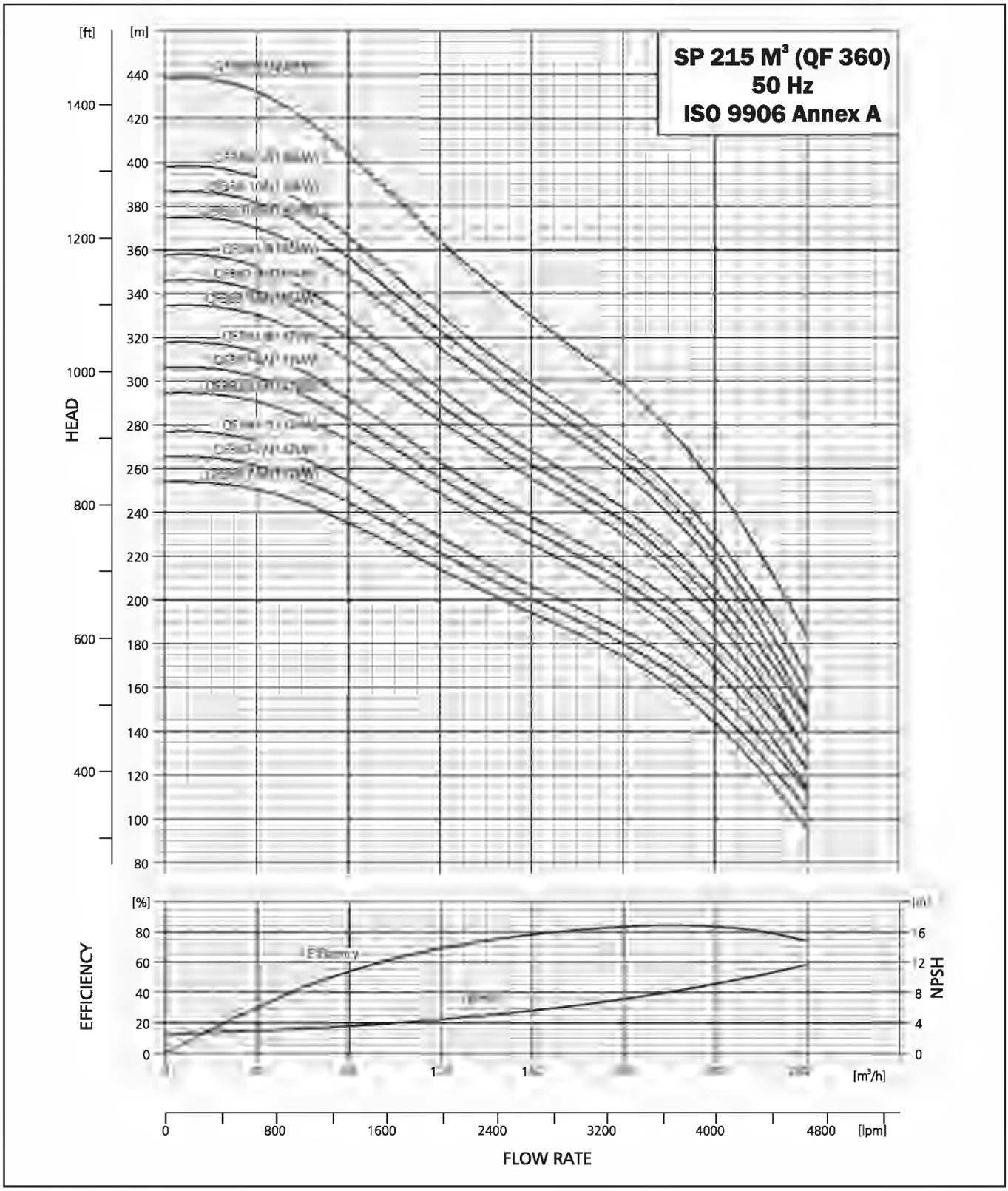
SUBMERSIBLE PUMP QF 270



SUBMERSIBLE PUMP QF 360

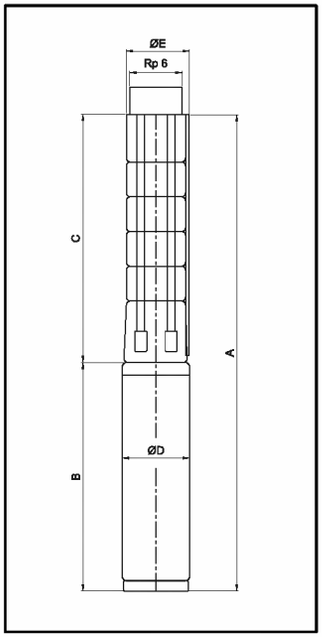


SUBMERSIBLE PUMP QF 360



SUBMERSIBLE PUMP QF 360

DIMENSIONS AND WEIGHTS



TECHNICAL DATA QF 360

PUMP TYPE	MOTOR		DIMENSIONS (MM)										NET WEIGHT (KG)	
	TYPE	POWER (kW)	RP 6" CONNECTION				6" FLANGE				B	D	PUMP	MOTOR
			A	C	E*	E**	A	C	E*	E**				
QF360-1-A	MATASF 150	15	1482	608	241	247	1482	608	241	247	874	143	28	66
QF360-1	MATASF 150	18.5	1527	608	241	247	1527	608	241	247	919	143	28	70
QF360-2-AA	MATASF 150	30	1998	784	241	247	1998	784	241	247	1214	143	56	100
QF360-2-AA	MATASF 200	30	1924	784	241	247	1924	784	241	247	1140	195	56	140
QF360-2-A	MATASF 200	37	1924	784	241	247	1924	784	241	247	1140	195	56	140
QF360-2	MATASF 200	45	2014	784	241	247	2014	784	241	247	1230	195	56	156
QF360-3-AA	MATASF 200	55	2300	960	241	247	2300	960	241	247	1340	195	84	179
QF360-3-A	MATASF 200	55	2300	960	241	247	2300	960	241	247	1340	195	84	179
QF360-3	MATASF 200	63	2430	960	241	247	2430	960	241	247	1470	195	84	198
QF360-4-AA	MATASF 200	75	2696	1136	241	247	2696	1136	241	247	1560	195	111	215
QF360-4-A	MATASF 200	75	2696	1136	241	247	2696	1136	241	247	1560	195	111	215
QF360-4	MATASF 200	75	2696	1136	241	247	2696	1136	241	247	1560	195	111	215
QF360-5-AA	MATASF 200	93	3052	1312	241	247	3052	1312	241	247	1740	195	139	247
QF360-5-A	MATASF 200	93	3052	1312	241	247	3052	1312	241	247	1740	195	139	247
QF360-5	MATASF 200	93	3052	1312	241	247	3052	1312	241	247	1740	195	139	247
QF360-6-AA	MATASF 10"	110	4249	1488	241	247	4249	1488	241	247	2761	237	167	315
QF360-6-A	MATASF 10"	110	4249	1488	241	247	4249	1488	241	247	2761	237	167	315
QF360-6	MATASF 10"	110	4249	1488	241	247	4249	1488	241	247	2761	237	167	315
QF360-7-AA	MATASF 10"	132	4685	1664	241	247	-	-	-	-	3021	237	195	362
QF360-7-A	MATASF 10"	132	4685	1664	241	247	-	-	-	-	3021	237	195	362
QF360-7	MATASF 10"	132	4685	1664	241	247	-	-	-	-	3021	237	195	362
QF360-8-AA	MATASF 10"	147	5081	1840	241	247	-	-	-	-	3241	237	223	413
QF360-8-A	MATASF 10"	147	5081	1840	241	247	-	-	-	-	3241	237	223	413
QF360-8	MATASF 10"	147	5081	1840	276	276	-	-	-	-	3241	237	223	413
QF360-9-AA	MATASF 10"	185	5557	2016	276	276	-	-	-	-	3541	237	251	449
QF360-9-A	MATASF 10"	185	5557	2016	276	276	-	-	-	-	3541	237	251	449
QF360-9	MATASF 10"	185	5557	2016	276	276	-	-	-	-	3541	237	251	449
QF360-10-AA	MOTOR 12"	190	4172	2192	276	276	-	-	-	-	1980	286	278	632
QF360-10-A	MOTOR 12"	190	4172	2192	286	286	-	-	-	-	1980	286	278	632
QF360-10	MOTOR 12"	190	4172	2192	286	286	-	-	-	-	1980	286	278	632
QF360-11	MOTOR 12"	220	4508	2368	286	286	-	-	-	-	2140	286	306	653

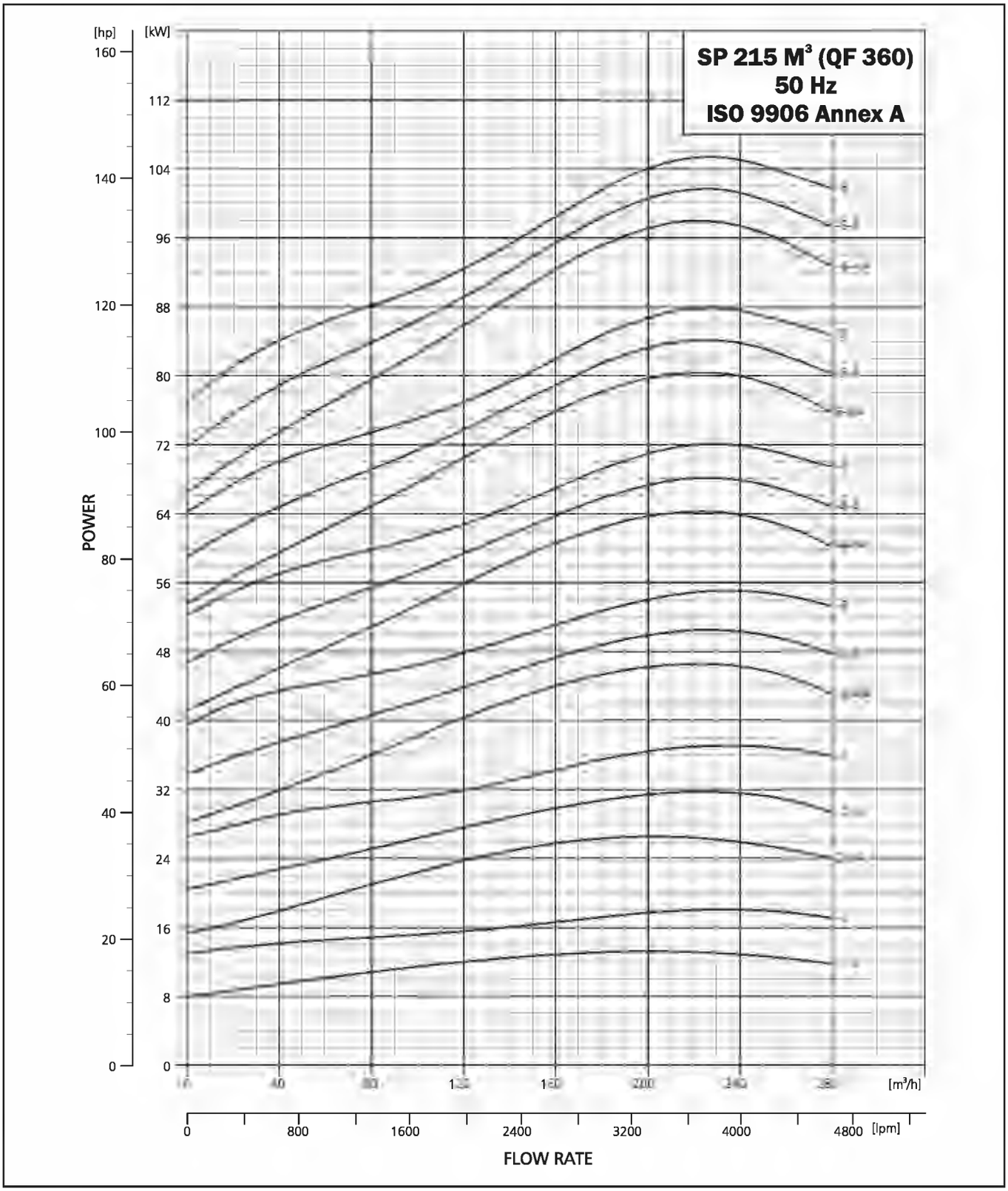
* Maximum diameter of pump with one motor cable.
** Maximum diameter of pump with two motor cable.
Motor type may change as per requirement.

SUBMERSIBLE PUMP QF 360

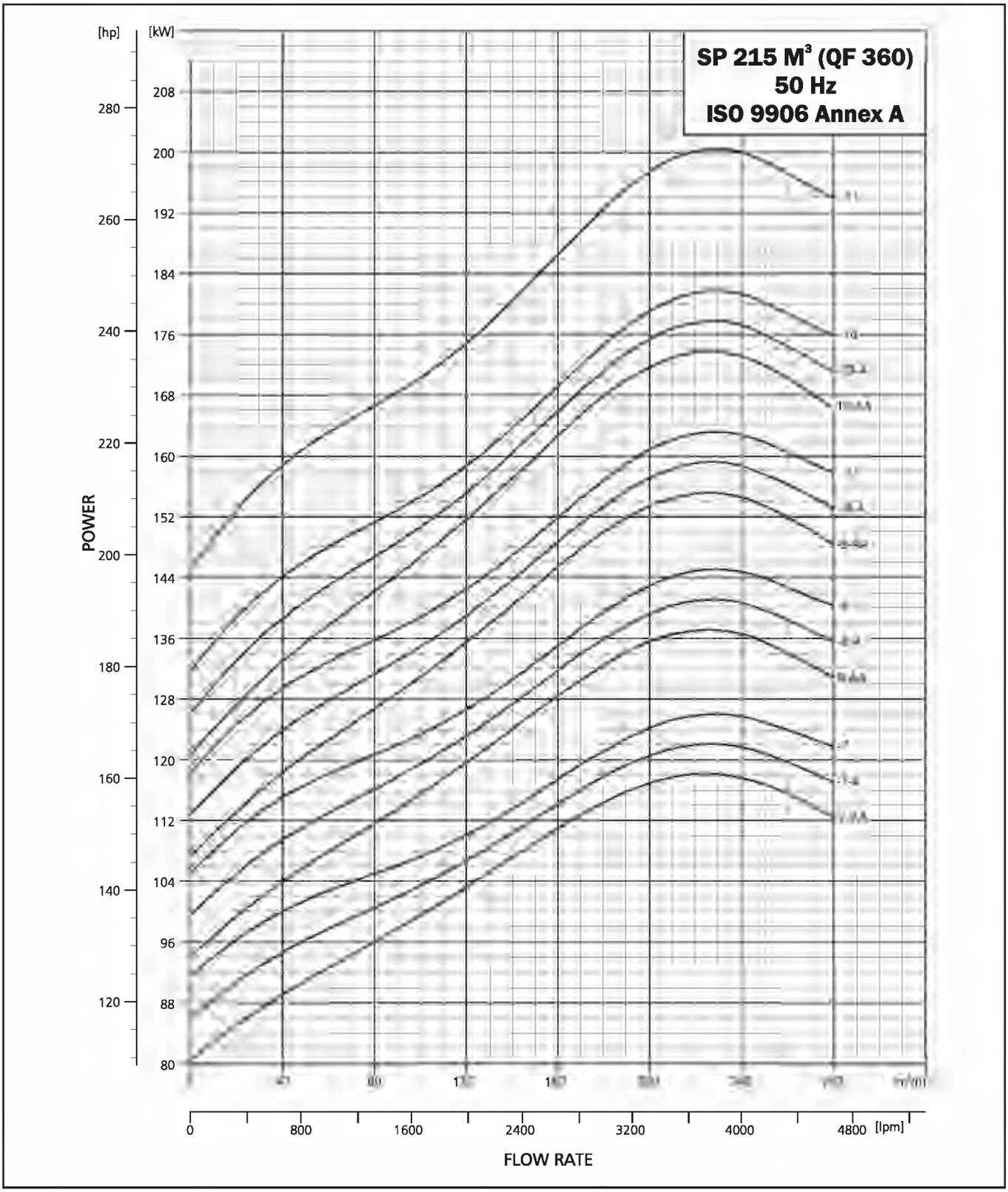
PERFORMANCE TABLE QF 360

QF-360					DISCHARGE (Q)																	
					m^3/h	0	90	110	130	150	170	180	190	200	210	220	230	240	250	260	270	280
					l/min.	0	1500	1833	2167	2500	2833	3000	3167	3333	3500	3667	3833	4000	4167	4333	4500	4667
MODEL	MATERIAL CODE				MOTOR RATING		TOTAL HEAD IN (m)															
	6x12	8x12	10x12	12x12	[kW]	[HP]																
QF 360-1A	9000003524	-	-	-	15	20	27	24	23	22	20	18	17	16	15	14	13	11	10	8	6	4	3
QF 360-1	9000003513	-	-	-	18.5	25	38	33	31	29	27	26	25	24	24	23	22	21	19	18	16	13	11
QF 360-2AA	9000010313	9000003534	-	-	30	40	55	50	48	46	43	41	39	37	35	33	31	28	25	21	18	14	11
QF 360-2A	9000003529	9000003530	-	-	37	50	66	59	57	54	51	49	47	46	44	42	40	38	35	32	28	23	18
QF 360-2	-	9000003526	-	-	45	60	79	70	66	62	59	56	55	54	52	50	49	46	44	41	37	34	30
QF 360-3AA	-	9000003543	-	-	55	75	95	87	84	80	76	73	71	69	66	63	60	57	53	48	42	36	28
QF 360-3A	-	9000003540	-	-	55	75	107	96	92	87	83	79	77	75	72	70	67	63	59	55	49	43	37
QF 360-3	-	9000003537	-	-	63	85	119	106	100	95	90	86	84	81	79	77	74	71	67	62	58	52	46
QF 360-4AA	-	9000003552	-	-	75	100	135	123	117	112	107	102	99	96	93	89	85	80	75	69	62	54	45
QF 360-4A	-	9000003549	-	-	75	100	146	132	125	119	113	108	105	102	99	95	91	87	82	76	69	61	53
QF 360-4	-	9000003546	-	-	75	100	158	140	133	126	119	114	111	108	105	102	98	93	88	82	76	69	62
QF 360-5AA	-	9000003562	-	-	93	125	173	157	149	142	135	129	125	122	118	113	108	102	95	88	79	69	59
QF 360-5A	-	9000003559	-	-	93	125	184	165	157	149	141	135	131	127	123	119	114	108	102	94	86	77	67
QF 360-5	-	9000003555	-	-	93	125	195	173	164	155	148	140	137	133	129	125	120	114	108	101	93	84	76
QF 360-6AA	-	-	-	-	110	150	212	192	183	174	166	157	153	149	144	139	133	126	118	109	98	87	75
QF 360-6A	-	-	9000017871	-	110	150	223	200	190	181	172	163	159	155	150	145	139	132	124	115	105	95	83
QF 360-6	-	-	9000003565	-	110	150	234	209	198	187	178	169	165	160	156	151	145	138	130	122	112	102	92
QF 360-7AA	-	-	9000003578	-	132	177	254	230	220	209	199	190	185	180	174	168	161	153	144	134	122	109	96
QF 360-7A	-	-	9000003576	-	132	177	265	239	227	216	205	196	191	186	180	174	167	159	151	141	129	117	104
QF 360-7	-	-	9000003574	-	132	177	277	248	235	223	212	202	197	192	186	180	174	166	157	147	137	125	113
QF 360-8AA	-	-	9000003584	-	147	204	295	267	255	242	231	220	214	209	202	195	188	179	168	157	144	129	114
QF 360-8A	-	-	9000003582	-	147	204	306	276	263	249	237	226	221	215	209	202	194	185	175	164	151	137	123
QF 360-8	-	-	9000003580	-	147	204	318	285	270	256	244	232	227	221	215	208	200	192	182	171	158	145	131
QF 360-9AA	-	-	9000003590	-	185	252	334	303	289	275	262	249	243	237	230	222	213	203	191	178	164	148	131
QF 360-9A	-	-	9000003588	-	185	252	346	312	297	282	268	256	249	243	236	228	219	209	198	185	171	156	140
QF 360-9	-	-	9000003586	-	185	252	358	321	305	289	275	262	255	249	242	234	226	216	205	192	179	164	148
QF 360-10AA	-	-	-	9000003519	190	260	375	340	324	308	293	279	272	265	257	249	239	228	215	201	185	168	149
QF 360-10A	-	-	-	9000003517	190	260	386	349	331	315	300	286	279	271	264	255	245	234	222	208	192	175	158
QF 360-10	-	-	-	9000003515	190	260	398	357	339	322	306	292	285	277	270	261	252	241	229	215	200	183	166

SUBMERSIBLE PUMP QF 360



SUBMERSIBLE PUMP QF 360



SSP GENERAL DATA (SSP 270, SSP300, SSP 360)

14" WELL SIZE

Models

SSP 270 (SP 270 G m^3/h)
SSP 300 (SP 300 G m^3/h)
SSP 360 (SP 360 G m^3/h)

Operating Condition

Flow Rate, Q - 24 - 430 m^3/h
Head, H - Max. 410 meter

Material

Diffuser - Cast Iron
Impeller - Bronze

PUMP RANGE

Type	SSP 270	SSP 300	SSP360
Cast Iron	+	+	+
DIN Connection	DIN 175	DIN 175	DIN 175

MOTOR RANGE

Motor Output 1kW]	22	26	30	37	45	55	75	93	110	132	147	170	190	220
Three Phase	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Rewindable Motor	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Steel: AISI 304	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Steel: AISI 304 & Cast Iron	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Soft starter or auto transformer is recommended above 75 kW, see soft starting. The MMS motors can be operated via frequency converter see Frequency converter operation.

Motors with star-delta are available for all motor sizes.

TYPE KEY

Example SSP 270-2 A — SSP 270 2 A

- Type range
- Rated flow in m3/h
- Number of impellers
- Impeller type

PUMPED LIQUIDS

Clean, thin, non-aggressive liquids without solid particles or fibers.

Maximum sand contents : 50 g/m3

OPERATING CONDITIONS

Flow Rate, Q : 24-430 m3/h
Head, H : Maximum 410 m
Operating Pressure : Maximum 60 bar
Storage temperature : Pump: -20 °C to +60 °C
Motor: -20 °C to +70 °C.

Motor	Installation		
	Flow velocity past motor	Vertical	Horizontal
8", 10" & 12"	0.15 m/s	40 °C	40 °C

FEATURES & BENEFITS

PUMP RANGE

The SSP pump range consists of pumps which can deliver a higher pressure or a higher flow compared to the rest of the QF pump range offered by Shakti.

SSP Pumps are semi-axial pumps. They are suitable for applications requiring a flow up to 430 m^3/h and a head up to 410 m head.

All pumps are available with an optional number of stages to match any duty point.

PRODUCT FEATURES

Bearings with sand channels

All bearings are constructed in such a way that channels are formed along the shaft enabling sand, if any, to leave the pump with the pumped liquid.

The bearings in SSP Pumps are Octagonal on the inside.

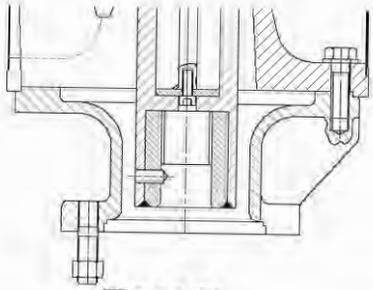
INLET STRAINER (Fig. no. 1)

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

(Fig. no. 1)

PROTECTION AGAINST UPTHRUST (Fig. no.2)

The pump range has a screwed connection between the coupling of the pump and the motor shaft ensuring that upthrust in the pump, if any, is transferred to the stop ring of the motor.



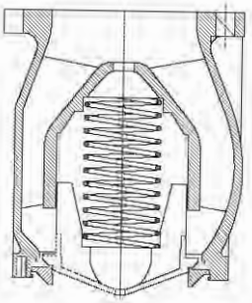
(Fig. no. 2)

VALVE CASING (Fig. no.3)

All pumps are equipped with a reliable non-return valve in the valve casing preventing back flow in connection with pump stoppage.

The valve casing is designed for optimum hydraulic properties to minimize the pressure loss across the Valve and thus contribute to minimizing the total pressure loss of the pump.

Furthermore, the short closing time of the non-return valve means that the risk of destructive water hammer is reduced to a minimum.



(Fig. no. 3)

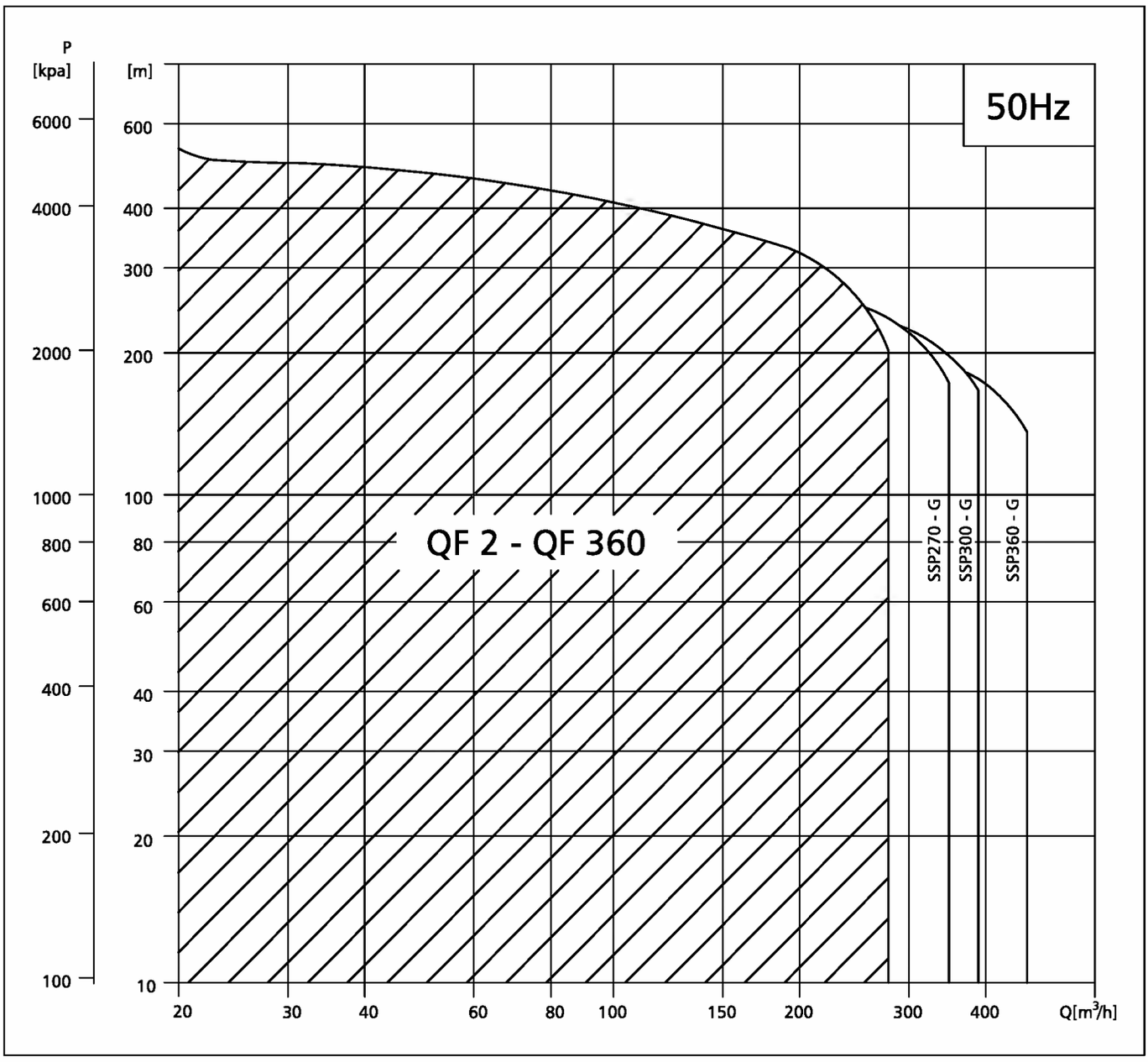
NECK RING (Fig. no.4)

All pumps have a replaceable neck ring in each chamber.

This means that the neck ring can be replaced easily in case of wear.

(Fig. no. 4)

PERFORMANCE RANGE

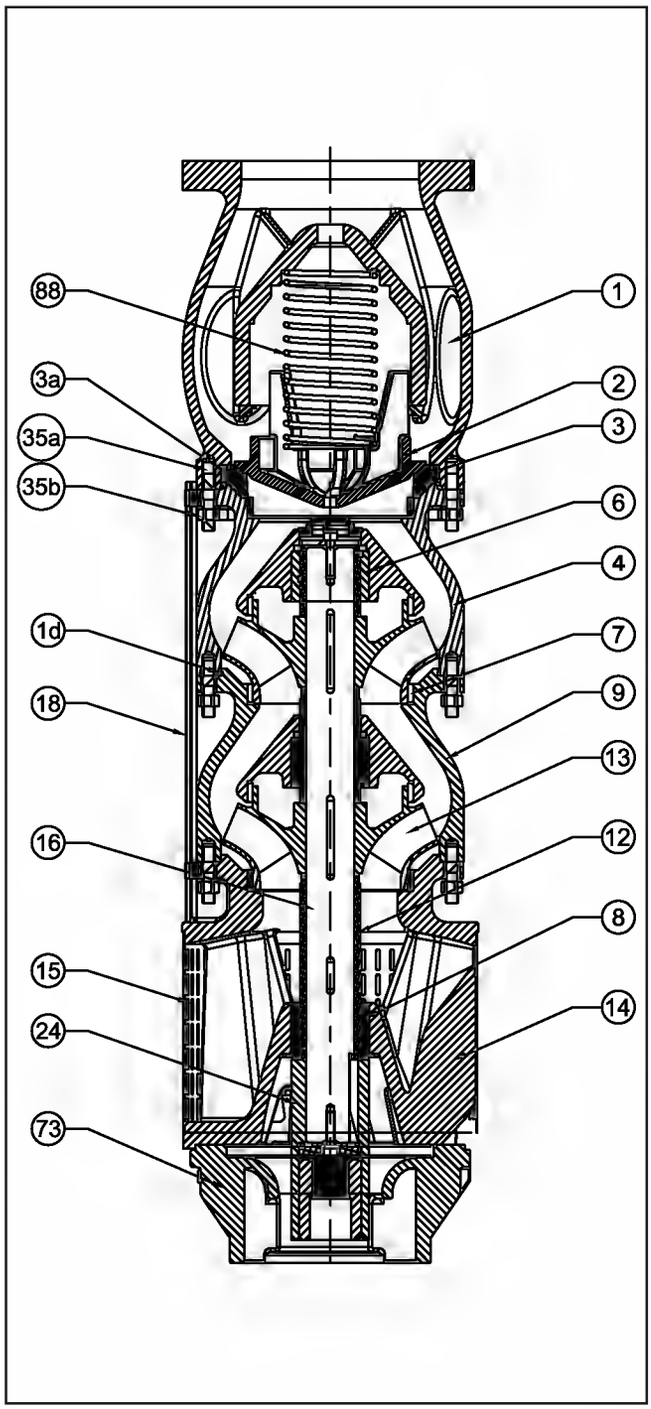


SUBMERSIBLE PUMP SSP-270

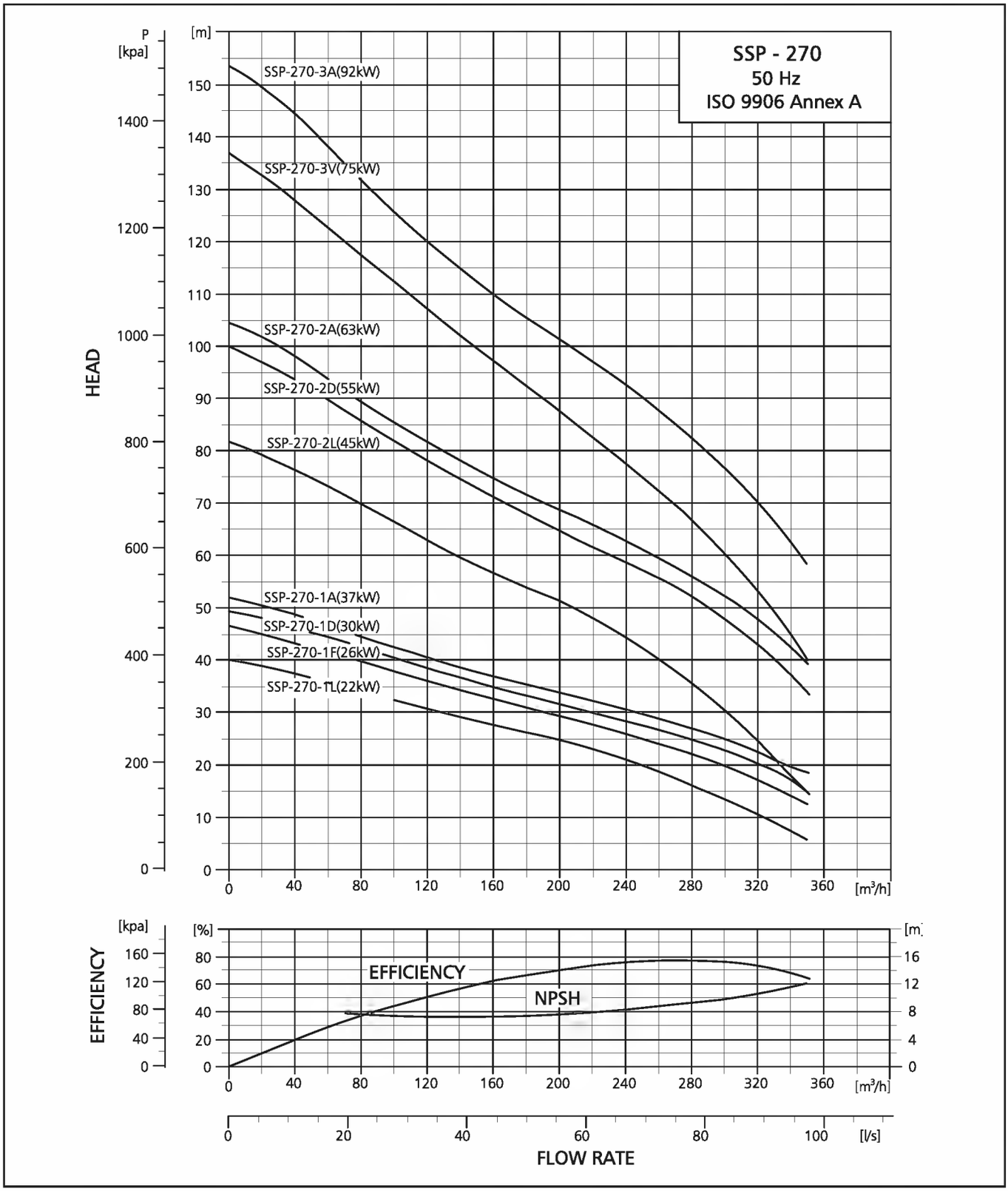
MATERIAL SPECIFICATION SSP-270

SR.NO.	DESCRIPTION	MATERIAL	MATERIAL
1	VALVE CASING	CAST IRON	CI-FG-260
1d	BOWL O-RING	RUBBER	NBR
2	VALVE CUP	BRONZE	LBT-2
3	VALVE SEAT	RUBBER	NBR
3a	VALVE SEAT RETAINER	BRONZE	LBT-2
4	TOP CHAMBER	CAST IRON	CI-FG-260
6	TOP BEARING BUSH	BRONZE	LBT-4
7	WEARING RING	BRONZE	LBT-4
8	BEARING BUSH	SS+RUBBER	SS-304+NBR
9	INTER CHAMBER	CAST IRON	CI-FG-260
12	BEARING SLEEVE	STAINLESS STEEL	AISI SS-304
13	IMPELLER	BRONZE	LBT-2
14	SUCTION INTERCONNECTOR	CAST IRON	CI-FG-260
15	STRAINER	STAINLESS STEEL	AISI SS-304
16	SHAFT	STAINLESS STEEL	DUPLEX
18	CABLE GUARD	STAINLESS STEEL	AISI SS-304
24	COUPLING	STAINLESS STEEL	AISI SS-304
35a	STUD	STAINLESS STEEL	AISI SS-304
35b	NUT	STAINLESS STEEL	AISI SS-304
73	SUCTION CASE ADOPTER	CAST IRON	CI-FG-260

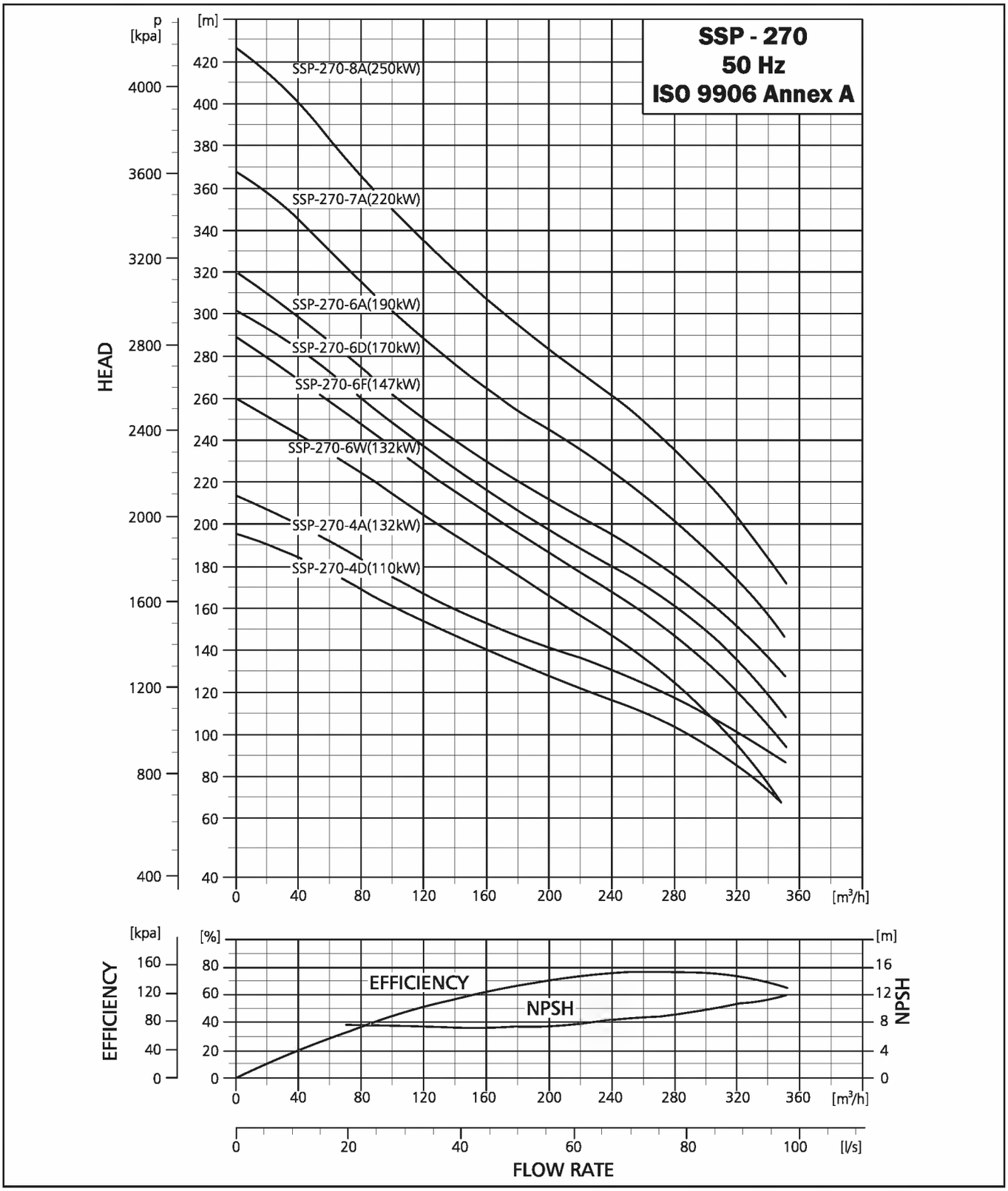
SECTIONAL VIEW OF SSP-270 PUMP ASSLY



SUBMERSIBLE PUMP SSP-270

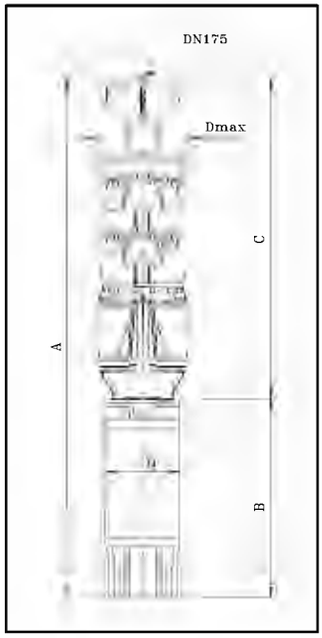


SUBMERSIBLE PUMP SSP-270



SUBMERSIBLE PUMP SSP-270

DIMENSIONS AND WEIGHTS



TECHNICAL DATA SSP-270

PUMP TYPE	MOTOR		DIMENSIONS (MM)				NET WEIGHT (KG) PUMPS SET
	TYPE	POWER (kW)	C	B	A	D	
SSP 270-1L	MATSFC8"	22	885	1040	1925	192	266
SSP 270-1F	MATSFC8"	26	885	1140	2025	192	274
SSP 270-1D	MATSFC8"	30	885	1140	2025	192	286
SSP 270-1A	MATSFC8"	37	885	1140	2025	192	296
SSP 270-2L	MATSFC8"	45	1065	1230	2295	192	342
SSP 270-2D	MATSFC8"	55	1065	1340	2405	192	357
SSP 270-2A	MATSFC8"	63	1065	1470	2535	192	383
SSP 270-3V	MATSFC8"	75	1245	1560	2805	192	427
SSP 270-3A	MATSFC8"	93	1245	1740	2985	192	473
SSP 270-4D	MATSF8"	110	1425	1920	3345	192	523
SSP 270-4D	MATSF10"	110	1425	2761	4186	237	605
SSP 270-4A	MATSF10"	132	1425	3021	4446	237	655
SSP 270-6W	MATSF10"	132	1785	3021	4806	237	705
SSP 270-6F	MATSF10"	147	1785	3241	5026	237	770
SSP 270-6D	MATSF12"	170	1785	3541	5326	286	890
SSP 270-6A	MATSF12"	190	1785	3541	5326	286	935
SSP 270-7A	MATSF12"	220	1965	1893	3858	286	1010
SSP 270-8A	MATSF12"	250	2145	1893	4038	286	1100

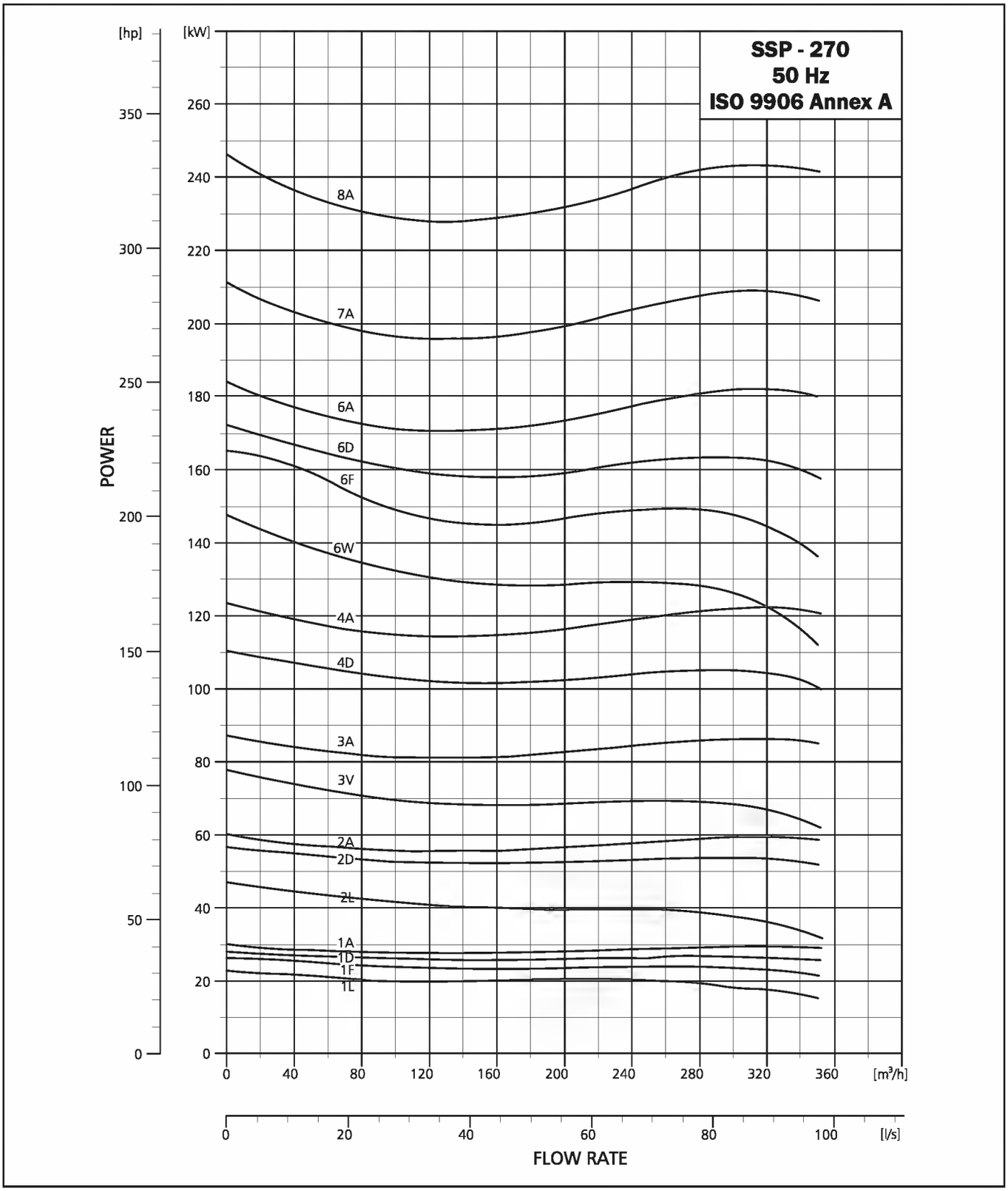
Dmax (6",8",10" and 12") :290mm

PERFORMANCE TABLE SSP 270

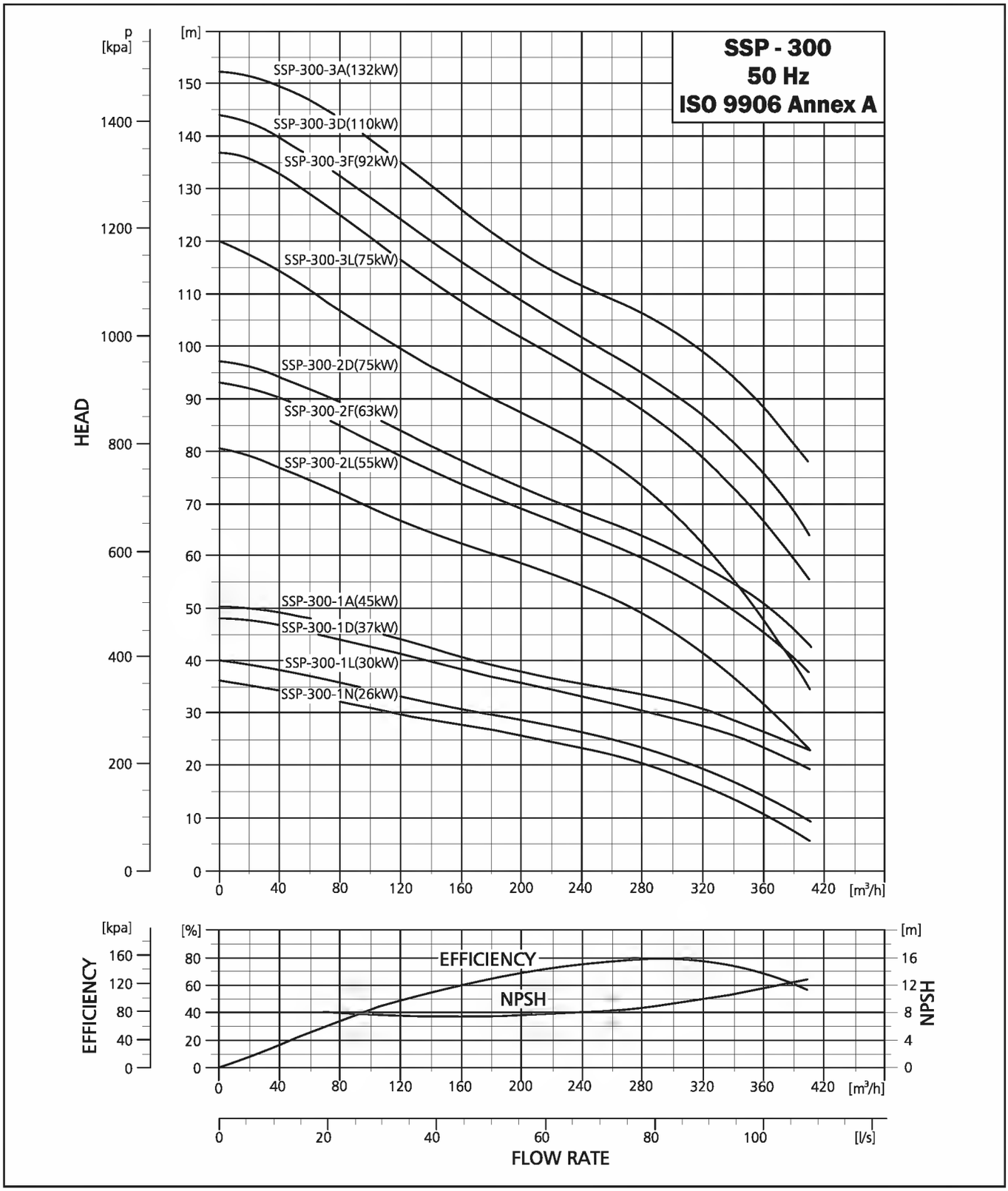
SSP 270					DISCHARGE (Q)										
					m^3/h		0	40	80	120	160	200	240	280	320
					l/min.		0	668	1336	2004	2672	3340	4008	4676	5344
MODEL	MATERIAL				MOTOR RATING		TOTAL HEAD IN (m)								
	6" joining	8" joining	10" joining	12" joining	[kW]	[HP]									
SSP270-1 L	9000010964	-	-	-	22	30	40	38	34	31	28	25	21	17	10
SSP270-1F	9000010961	-	-	-	26	35	47	43	40	37	33	29	27	23	18
SSP270-1D	9000010962	-	-	-	30	40	49	47	43	38	35	32	29	25	20
SSP270-1A	9000010963	-	-	-	37	50	52	49	45	41	37	33	30	27	23
SSP270-2L	-	9000018456	-	-	45	60	82	77	69	63	57	52	44	35	25
SSP270-2D	-	9000010965	-	-	55	75	100	93	86	78	72	65	58	52	43
SSP270-2A	-	9000010966	-	-	63	85	104	98	88	82	75	68	62	56	48
SSP270-3V	-	9000010967	-	-	75	100	137	128	117	107	97	87	77	67	53
SSP270-3A	-	9000010968	-	-	93	125	153	144	133	121	111	102	93	83	71
SSP270-4D	-	-	9000010969	-	110	150	195	185	170	155	141	127	117	104	87
SSP270-4A	-	-	9000010970	-	132	177	213	200	184	168	152	142	130	107	100
SSP270-6W	-	-	9000010971	-	132	177	260	243	225	205	185	166	157	123	96
SSP270-6F	-	-	9000010972	-	147	197	289	268	248	226	205	186	168	147	120
SSP270-6D	-	-	9000010973	-	170	252	302	285	260	238	217	197	180	161	135
SSP270-6A	-	-	9000010974	-	190	252	320	298	275	250	230	212	195	174	151
SSP270-7A	-	-	-	9000010975	220	295	367	346	315	290	264	245	225	201	173
SSP270-8A	-	-	-	9000010976	250	335	425	400	366	335	308	283	261	235	204

This Performance Table is Approximate as a Performance Curve
Techanical Change without notice

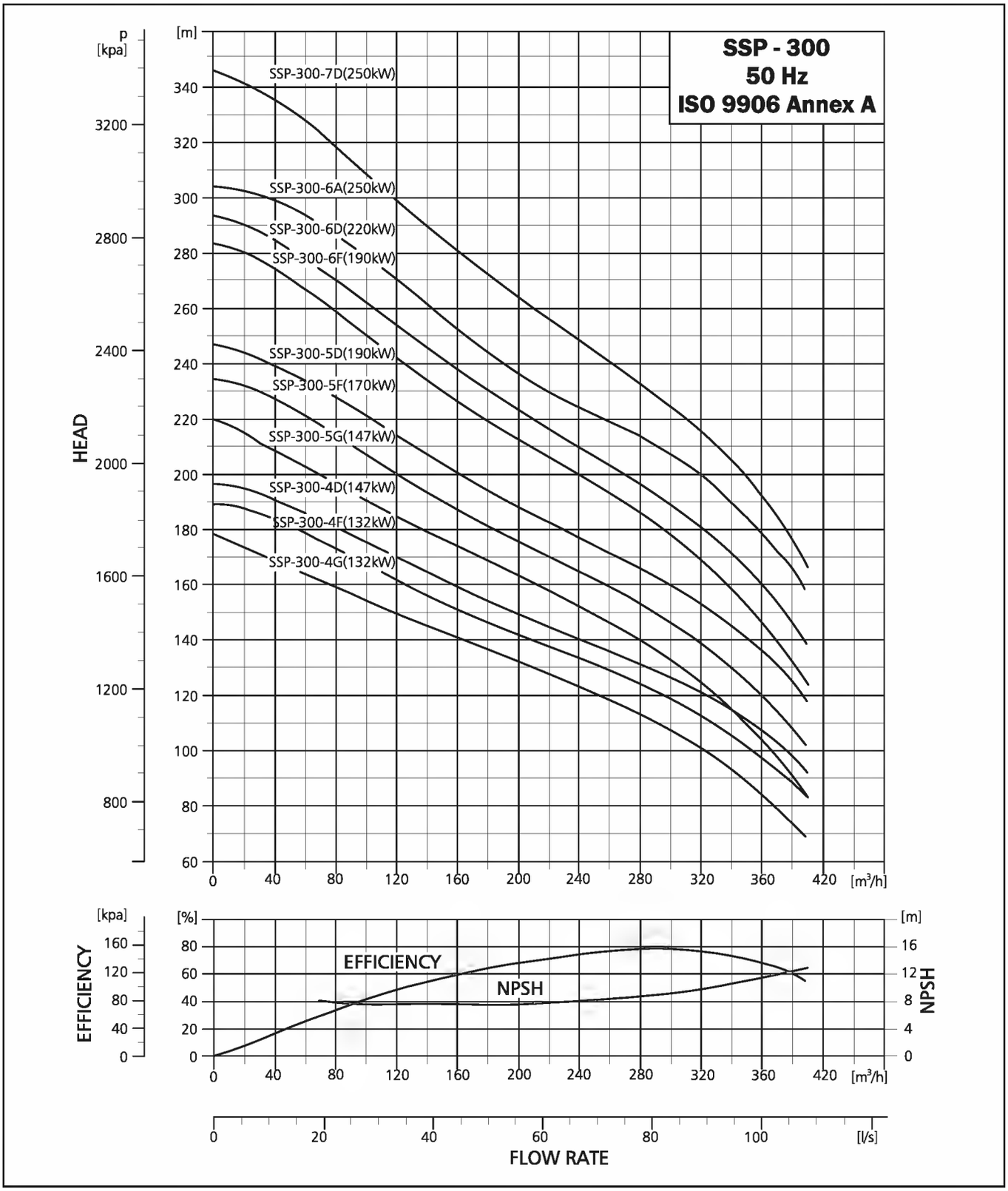
SUBMERSIBLE PUMP SSP-270



SUBMERSIBLE PUMP SSP-300

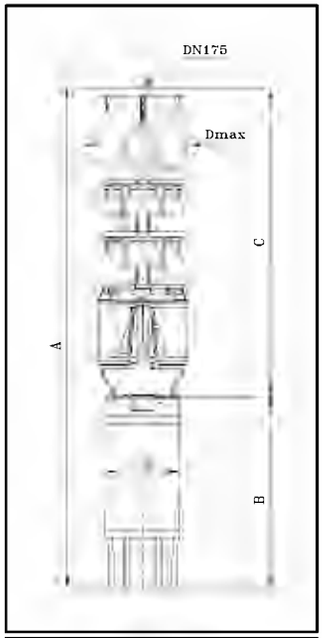


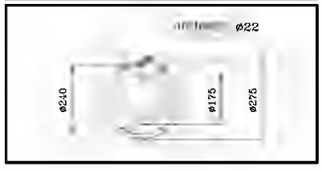
SUBMERSIBLE PUMP SSP-300



SUBMERSIBLE PUMP SSP-300

DIMENSIONS AND WEIGHTS





TECHNICAL DATA SSP-300

PUMP TYPE	MOTOR		DIMENSIONS (MM)				NET WEIGHT (KG) PUMPS SET
	TYPE	POWER (kW)	C	B	A	D	
SSP300-1N	MATSF8"	26	885	1085	1970	192	266
SSP300-1L	MATSF8"	30	885	1140	2025	192	286
SSP300-1D	MATSF8"	37	885	1140	2025	192	296
SSP300-1A	MATSF8"	45	885	1230	2115	192	317
SSP300-2L	MATSF8"	55	1065	1340	2405	192	357
SSP300-2F	MATSF8"	63	1065	1470	2535	192	383
SSP300-2D	MATSF8"	75	1065	1560	2625	192	402
SSP300-3L	MATSF8"	75	1245	1560	2805	192	427
SSP300-3F	MATSF8"	93	1245	1740	2985	192	473
SSP300-3D	MATSF8"	110	1245	1934	3179	192	523
SSP300-3D	MATSF10"	110	1245	1529	2774	237	580
SSP300-3A	MATSF10"	132	1245	1659	2904	237	630
SSP300-4G	MATSF10"	132	1425	1659	3084	237	655
SSP300-4F	MATSF10"	132	1425	1659	3084	237	655
SSP300-4D	MATSF10"	147	1425	1769	3194	237	720
SSP300-5G	MATSF10"	147	1605	1769	3374	237	745
SSP300-5F	MATSF12"	170	1605	1919	3524	286	865
SSP300-5D	MATSF12"	190	1605	1743	3348	286	910
SSP300-6F	MATSF12"	190	1785	1743	3528	286	935
SSP300-6D	MATSF12"	220	1785	1743	3528	286	985
SSP300-6A	MATSF12"	250	1785	1893	3678	286	1060
SSP300-7D	MATSF12"	250	1965	1893	3858	286	1085

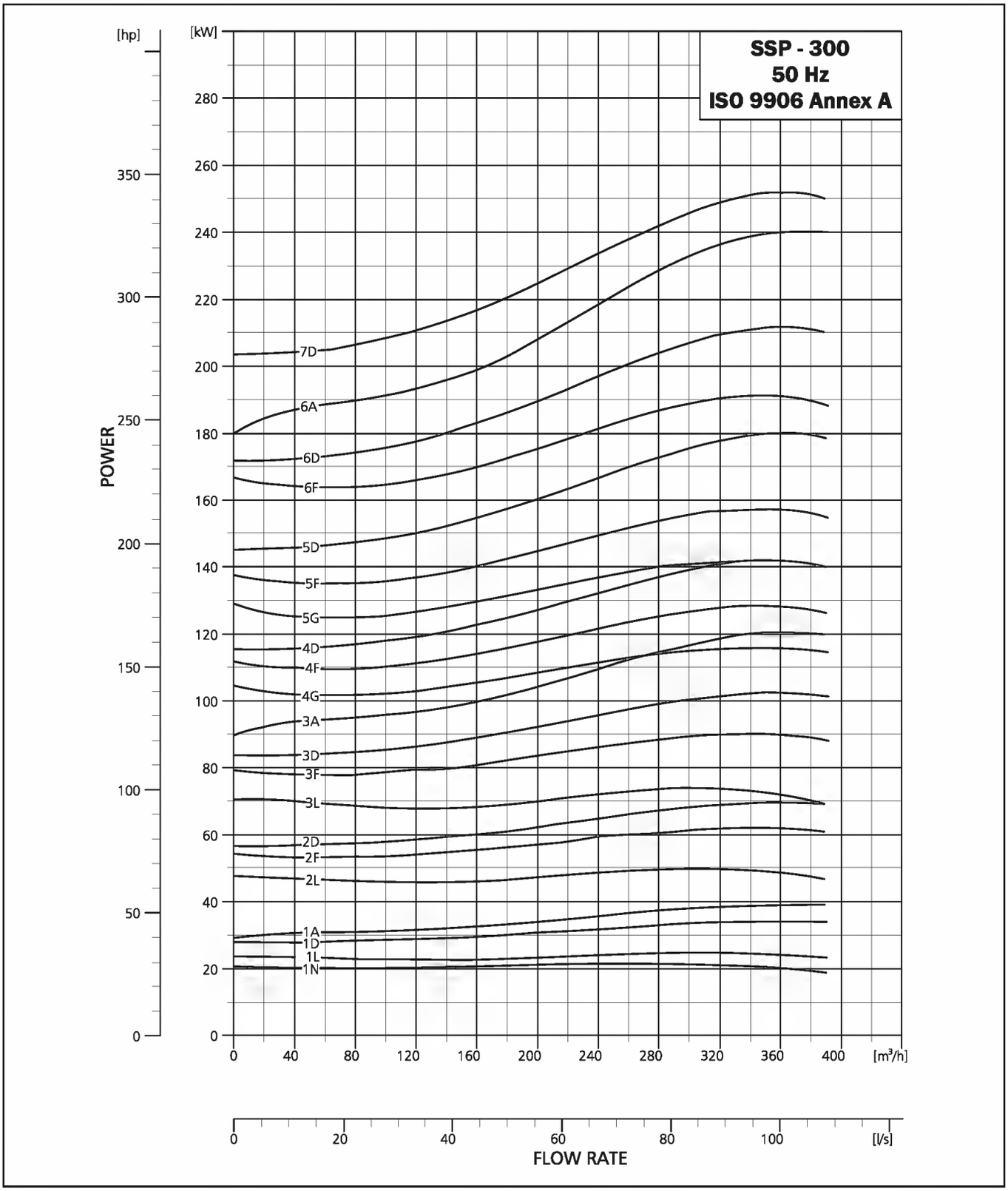
Dmax (6",8",10" and 12"):290mm

PERFORMANCE TABLE SSP 300

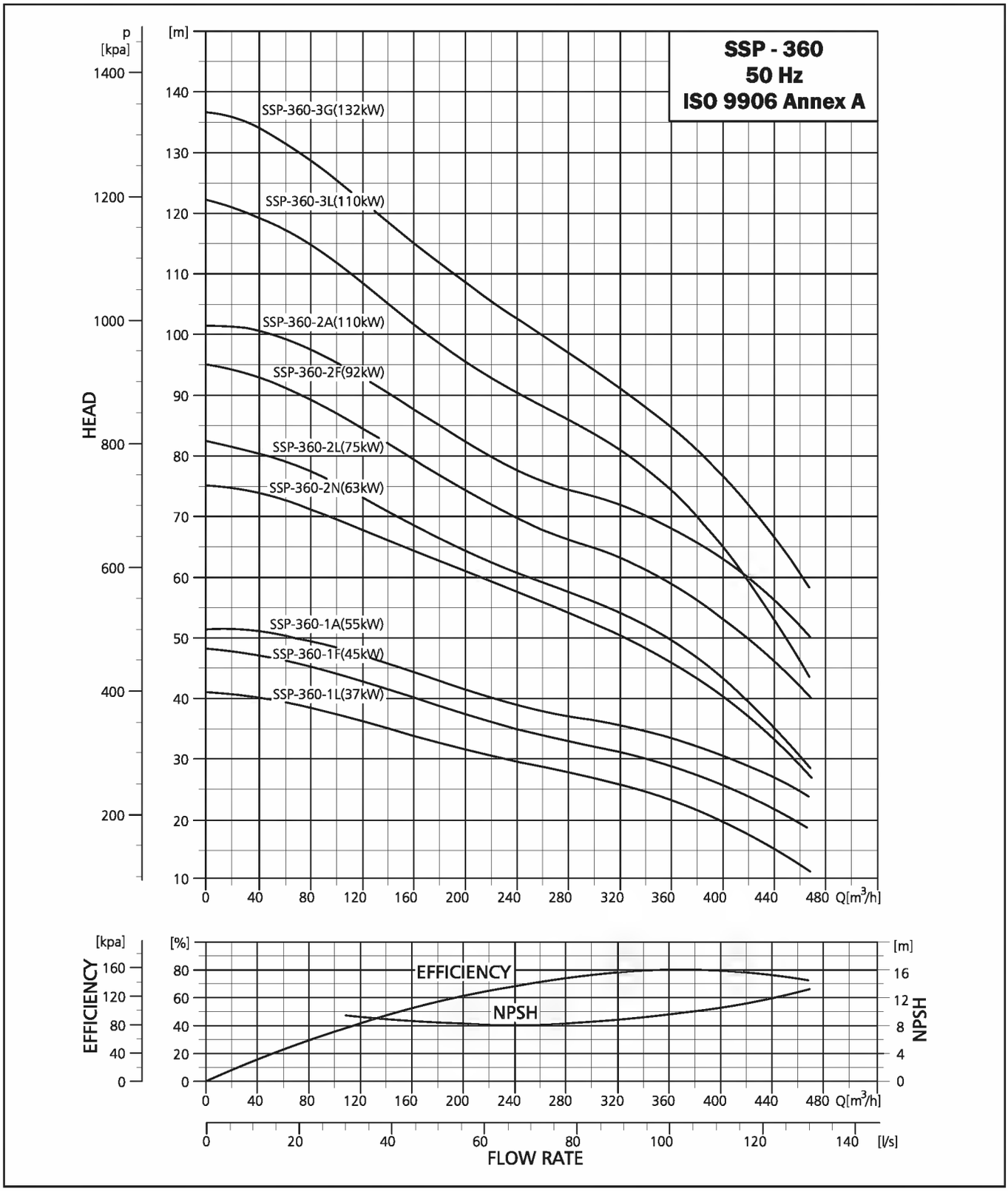
SSP 300					DISCHARGE (Q)											
					m^3/h		0	40	80	120	160	200	240	280	320	360
					l/min.		0	668	1336	2004	2672	3340	4008	4676	5344	6012
MODEL	MATERIAL				MOTOR RATING		TOTAL HEAD IN (m)									
	6" joining	8" joining	10" joining	12" joining	[kW]	[HP]										
SSP300-1 N	-	-	-	-	26	35	37	34	32	29	28	26	23	21	16	11
SSP300-1L	9000010978	-	-	-	30	40	40	38	36	33	31	27	27	24	19	14
SSP300-1D	9000014266	-	-	-	37	50	47	47	44	42	38	36	34	31	28	24
SSP300-1A	-	9000010980	-	-	45	60	50	49	46	44	41	38	36	33	31	26
SSP300-2L	-	9000010981	-	-	55	75	82	77	72	66	62	58	54	49	41	31
SSP300-2F	-	9000010982	-	-	63	85	93	92	85	78	73	68	64	59	53	51
SSP300-2D	-	9000010983	-	-	75	100	97	94	89	84	77	73	68	64	58	46
SSP300-3L	-	9000010984	-	-	75	100	120	114	107	99	93	87	81	74	62	47
SSP300-3F	-	9000010985	-	-	93	125	137	136	125	118	108	103	95	87	78	66
SSP300-3D	-	-	9000010986	-	110	150	148	140	133	124	117	109	103	95	87	76
SSP300-3A	-	-	9000013929	-	132	177	152	148	143	135	126	117	112	107	98	88
SSP300-4G	-	-	9000010988	-	132	177	179	170	158	150	141	132	123	114	101	84
SSP300-4F	-	-	9000010989	-	132	177	189	183	173	162	151	142	134	124	112	98
SSP300-4D	-	-	9000010990	-	147	197	196	192	182	170	159	149	140	131	121	108
SSP300-5G	-	-	9000010991	-	147	197	220	208	195	184	174	163	152	140	124	104
SSP300-5F	-	-	9000010992	-	170	252	234	228	213	200	187	176	165	154	139	120
SSP300-5D	-	-	-	9000010993	190	252	248	239	224	214	201	188	178	166	154	136
SSP300-6F	-	-	-	9000010994	190	252	283	272	258	242	226	212	200	186	169	148
SSP300-6D	-	-	-	9000010995	220	295	294	285	270	254	238	223	210	196	181	160
SSP300-6A	-	-	-	9000010996	250	335	304	299	288	270	252	237	225	214	200	179
SSP300-7D	-	-	-	9000010997	250	335	345	335	318	300	281	264	248	232	215	192

This Performance Table is Approximate as a Performance Curve
Techanical Change without notice

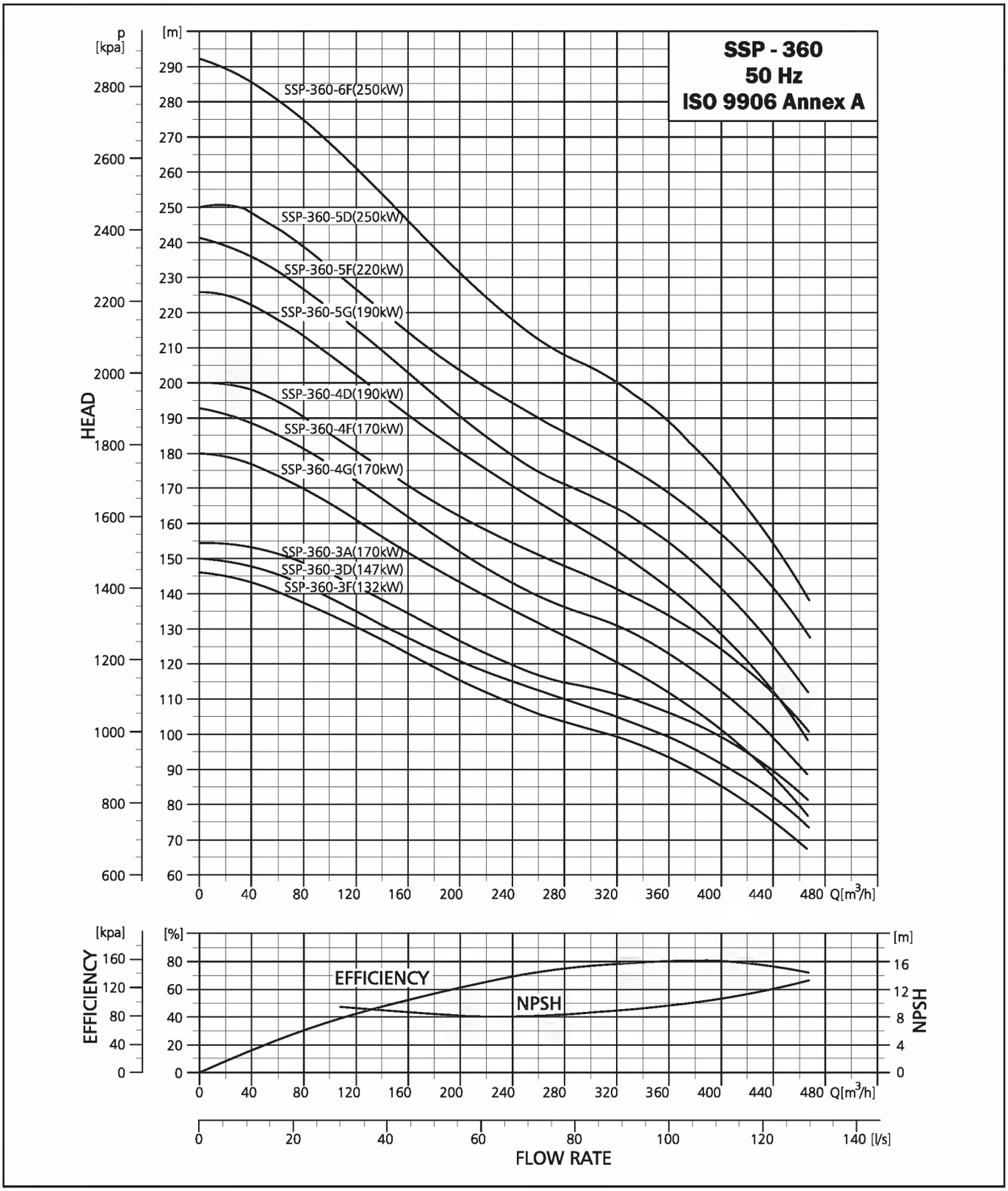
SUBMERSIBLE PUMP SSP-300



SUBMERSIBLE PUMP SSP-360

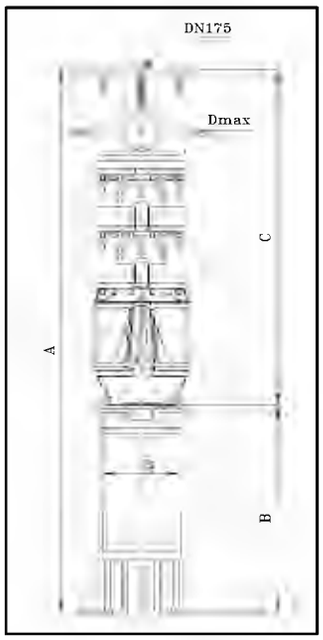


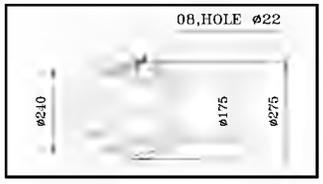
SUBMERSIBLE PUMP SSP-360



SUBMERSIBLE PUMP SSP-360

DIMENSIONS AND WEIGHTS





TECHNICAL DATA SSP-360

PUMP TYPE	MOTOR		DIMENSIONS (MM)				NET WEIGHT (KG)
	TYPE	POWER (kW)	C	B	A	D	
SSP360-1L	MATSF8"	37	885	1140	2025	192	296
SSP360-1F	MATSF8"	45	885	1230	2115	192	317
SSP360-1A	MATSF8"	55	885	1340	2225	192	332
SSP360-2N	MATSF8"	63	1065	1470	2535	192	383
SSP360-2L	MATSF8"	75	1065	1560	2625	192	402
SSP360-2F	MATSF8"	92	1065	1740	2805	192	448
SSP360-2A	MATSF8"	110	1065	1529	2594	192	498
SSP360-3L	MATSF8"	110	1245	1529	2774	192	523
SSP360-2A	MATSF10"	110	1065	1499	2564	237	555
SSP360-3L	MATSF10"	110	1245	1499	2744	237	580
SSP360-3G	MATSF10"	132	1245	1659	2904	237	630
SSP360-3F	MATSF10"	132	1245	1659	2904	237	630
SSP360-3D	MATSF10"	147	1245	1769	3014	237	695
SSP360-3A	MATSF12"	147	1245	1919	3164	286	805
SSP360-4G	MATSF12"	170	1425	1919	3344	286	840
SSP360-4F	MATSF12"	170	1425	1919	3344	286	840
SSP360-4D	MATSF12"	185	1425	1919	3344	286	885
SSP360-5G	MATSF12"	185	1605	1919	3524	286	910
SSP360-5F	MOTOR12"	220	1605	1893	3498	286	960
SSP360-5D	MOTOR12"	250	1605	1893	3498	286	1035
SSP360-6F	MOTOR12"	250	1785	1893	3678	286	1060

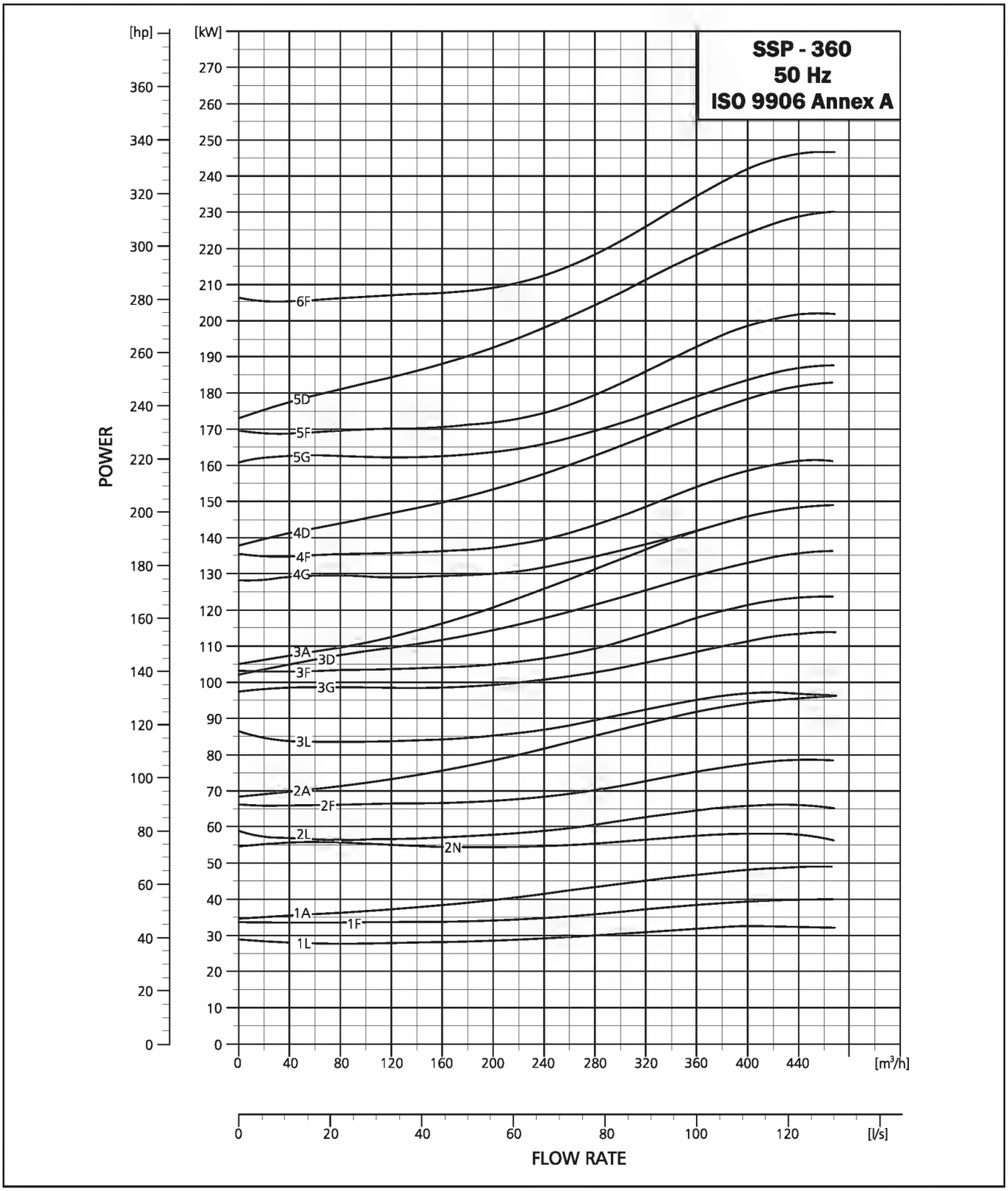
Dmax (6",8",10" and 12") :290mm

PERFORMANCE TABLE SSP 360

SSP 360					DISCHARGE (Q)													
					m^3/h	0	40	80	120	160	200	240	280	320	360	400	440	
					l/min.	0	668	1336	2004	2672	3340	4008	4676	5344	5344	6012	7348	
MODEL	MATERIAL				MOTOR RATING		TOTAL HEAD IN (m)											
	6" joining	8" joining	10" joining	12" joining	[kW]	[HP]												
SSP360-1L	9000010998	-	-	-	37	50	41	40	38	36	34	31	29	28	26	23	20	15
SSP360-1F	-	9000010999	-	-	45	60	47	47	45	42	40	37	35	33	31	28	26	21
SSP360-1A	-	9000011000	-	-	55	75	51	51	48	47	44	41	38	37	36	33	31	26
SSP360-2N	-	9000011001	-	-	63	85	75	73	72	67	64	59	57	54	50	46	40	34
SSP360-2L	-	9000011002	-	-	75	100	82	81	76	73	69	61	61	57	54	49	43	35
SSP360-2F	-	9000011003	-	-	92	125	95	93	89	84	79	74	70	67	63	59	54	47
SSP360-2A	-	-	9000011004	-	110	150	102	101	97	93	88	83	78	74	72	68	64	57
SSP360-3L	-	-	9000011005	-	110	150	123	119	115	109	103	96	91	86	82	75	66	53
SSP360-3G	-	-	9000011006	-	132	177	137	134	128	122	115	108	103	97	92	85	76	67
SSP360-3F	-	-	9000011007	-	132	177	146	143	138	133	123	114	109	103	99	94	85	75
SSP360-3D	-	-	9000011008	-	147	197	150	148	143	135	127	121	115	110	105	99	92	82
SSP360-3A	-	-	9000011009	-	170	197	155	154	149	143	135	127	120	115	112	106	99	90
SSP360-4G	-	-	9000011010	-	170	230	180	176	170	161	152	143	135	128	120	112	101	88
SSP360-4F	-	-	9000011011	-	170	230	193	188	182	172	162	152	143	136	131	123	112	99
SSP360-4D	-	-	9000011012	-	185	252	200	198	190	180	171	162	154	147	141	134	124	112
SSP360-5G	-	-	9000011013	-	190	252	226	222	212	202	191	180	170	161	152	141	128	111
SSP360-5F	-	-	-	9000011014	220	295	243	236	220	215	203	190	180	171	164	158	141	125
SSP360-5D	-	-	-	9000011015	250	335	250	248	239	226	214	204	195	186	178	168	156	141
SSP360-6F	-	-	-	9000011016	250	335	292	286	275	260	246	231	218	208	200	189	174	154

This Performance Table is Approximate as a Performance Curve
Techanical Change without notice

SUBMERSIBLE PUMP SSP-360



SINGLE PHASE PERFORMANCE DATA 50 HZ

SINGLE PHASE SPECIFICATION (50 HZ) 4" 100																
RATING					FULL LOAD WATTS	LINE TO LINE		EFFICIENCY			POWER			LOCKED ROTOR AMPS	CIRCUIT BREAKERS OR FUSE AMPS TYPICAL SUBMERSIBLE	
[HP]	[kW]	VOLTS	LINE VOLTS	AMPS		MAIN	START	100	75	50	100	75	50		NONTIME DELAY (STD) FUSE OR CICUIT BREAKE	DUAL ELEMENT TIME DELAY FUSE
0.5	0.37	230	230	4.2	650	6.4-7.8	19.4-23.7	57	54	46	72	64	53	15.4	15	4.5
0.75	0.55	230	230	6.3	940	3.8-4.6	14.7-18	59	55	47	69	60	50	23	15	7
1.0	0.75	230	230	7.6	1200	3.2-3.9	12.8-15.7	62	59	52	73	65	53	29.1	20	9
1.5	1.1	230	230	10	1690	2.4-2.9	6.4-7.8	67	63	55	79	63	55	40.6	20	12
2.0	1.5	230	230	12.1	2160	2.0-2.5	8.0-9.7	69	67	60	85	77	65	54.3	30	15
3.0	2.2	230	230	17.8	3270	1.1-1.4	3.7-4.5	68	66	63	85	77	65	87.5	50	25
5.0	3.7	230	230	26	5150	0.79-0.97	2.4-2.9	73	71	64	93	89	78	118	70	30

*PERFORMANCE IS TYPICALLY GUARANTEED

(1) Main winding - yellow to black
Start winding - yellow to red

THREE PHASE PERFORMANCE DATA 50 HZ

THREE PHASE SPECIFICATION (50 HZ) 4" 100										
RATING				FULL LOAD WATTS	LINE TO LINE (1) RESISTANCE (OHMS)	EFFICIENCY %	POWER FACTOR %	LOCKED ROTOR AMPS	CIRCUIT BREAKERS OR FUSE AMPS TYPICAL SUBMERSIBLE	
[HP]	[kW]	VOLTS	AMPS			F.I.	F.I.		NONTIME DELAY (STD) FUSE OR CICUIT BREAKE	DUAL ELEMENT TIME DELAY FUSE
0.5	0.37	380	1.1	550	27.29 - 33.36	67	0.72	4.3	15	1.2
		400	1.3	576		66	0.62	5.0		
		415	1.4	600		64	0.6	6.0		
0.75	0.55	380	1.5	840	24.27 - 29.66	67	0.76	5.9	15	1.8
		400	1.6	840		71	0.72	6.5		
		415	1.6	840		67	0.68	7.0		
1.0	0.75	380	2.2	1024	14.24 - 17.41	74	0.71	9.0	15	2.5
		400	2.3	1080		72	0.68	11		
		415	2.3	1104		72	0.65	12		
1.5	1.1	380	3.1	1484	10.7 - 13.11	76	0.78	14	15	3.0
		400	3.1	1536		74	0.71	16		
		415	3.2	1560		74	0.67	18		
2.0	1.5	380	4.9	2136	7.36 - 8.99	73	0.74	20	15	4.5
		400	4.1	2088		74	0.74	22		
		415	4.1	2112		74	0.71	24		
3.0	2.2	380	5.7	2944	5.88 - 7.194	75	0.8	26	15	7.0
		400	6	2920		77	0.82	27		
		415	6.2	2925		77	0.77	28		
4.0	3	380	7.4	4000	4.4 - 5.4	76	0.82	36	20	9.0
		400	7.3	3910		76	0.84	38		
		415	7.6	3920		76	0.81	39		
5.0	3.7	380	8.6	4824	3.96 - 4.84	77	0.85	46	25	10
		400	9.1	4875		77	0.79	48		
		415	9.5	4910		76	0.74	49		
5.5	4.0	380	9	5156	3.1 - 3.8	78	0.81	51	25	12
		400	10.4	5210		79	0.82	53		
		415	10.6	5240		78	0.79	55		
7.5	5.5	380	13	7189	2.3 - 2.8	77	0.84	69	35	15
		400	13.1	7155		78	0.8	73		
		415	13.5	7205		78	0.76	76		
10.0	7.5	380	19	10084	1.7 - 2.1	75	0.8	99	50	25
		400	19.2	10272		75	0.77	102		
		415	19.7	10400		74	0.74	105		

*PERFORMANCE IS TYPICALLY GUARANTEED

MTSF 6" REWINDABLE MOTORS PERFORMANCE DATA 50 HZ

MTSF 6" MOTORS PERFORMANCE DATA 50 HZ														
[HP]	P_N [kW]	Thrust F [N]	U_N [V]	n_N [min^{-1}]	I_N [A]	I_A [A]	η(Eff.)[%] at % load			COS Φ (PF) at % load			T_N [Nm]	T_A [Nm]
							50	75	100	50	75	100		
5.5	4	15500	380	2910	10.4	48	71	75	76	0.59	0.71	0.78	13.1	15.5
			400	2930	10.6	51	68	73	76	0.53	0.65	0.73	13.1	17.3
			415	2930	10.9	53	65	72	76	0.5	0.61	0.69	13	18.8
7.5	5.5	15500	380	2860	13.7	48	74	76	75	0.67	0.78	0.83	18.3	15.5
			400	2890	13.3	51	72	76	76	0.62	0.74	0.81	18.2	17.3
			415	2890	13.4	53	71	75	75	0.59	0.71	0.78	18.1	18.8
10	7.5	15500	380	2860	18.3	59	77	78	76	0.7	0.8	0.84	25	19.2
			400	2880	17.7	63	75	78	77	0.65	0.76	0.82	24.8	21.5
			415	2890	17.7	65	73	77	77	0.61	0.73	0.8	24.7	23.4
12.5	9.3	15500	380	2850	22	74	79	80	78	0.71	0.8	0.84	31.1	25.9
			400	2870	21.4	78	78	79	78	0.64	0.76	0.82	31	29
			415	2880	21.2	81	76	79	78	0.6	0.72	0.8	30.9	31.4
15	11	15500	380	2860	25.8	93	78	80	78	0.71	0.8	0.85	36.7	31.5
			400	2880	25.2	98	77	80	79	0.65	0.76	0.83	36.4	35.5
			415	2890	25.1	102	75	78	79	0.61	0.73	0.8	36.3	38.2
17.5	13	15500	380	2880	30.1	118	80	81	80	0.68	0.79	0.84	43.1	45
			400	2900	29.6	125	78	80	80	0.61	0.74	0.81	42.8	50.3
			415	2900	29.7	130	76	79	80	0.57	0.7	0.78	42.7	54.6
20	15	15500	380	2880	33.9	140	81	82	81	0.71	0.81	0.85	49.7	53.9
			400	2890	33.1	148	79	81	81	0.65	0.77	0.83	49.4	60.4
			415	2900	33	154	77	80	81	0.6	0.73	0.81	49.3	65.5
25	18.5	15500	380	2860	42.3	172	81	82	81	0.68	0.78	0.84	61.7	75.2
			400	2880	42	182	78	81	81	0.61	0.74	0.8	61.2	84.3
			415	2890	42.5	189	76	79	80	0.57	0.7	0.77	61.1	91.3
30	22	15500	380	2880	49.1	218	82	84	83	0.68	0.78	0.84	72.6	91.2
			400	2900	49	231	80	82	82	0.61	0.73	0.8	72.5	102.2
			415	2910	49.6	240	77	81	82	0.56	0.69	0.77	72.2	110.2
35	26	15500	380	2880	57.5	268	83	84	83	0.68	0.79	0.86	86	120.4
			400	2900	56.7	284	81	83	83	0.61	0.74	0.83	85.6	134.7
			415	2910	57.3	296	78	82	82	0.56	0.69	0.8	85.3	146.1
40	30	27500	380	2900	66.4	328	82	84	83	0.67	0.78	0.84	98.8	135
			400	2910	66.4	347	80	83	83	0.6	0.73	0.8	98.4	151
			415	2910	67.5	361	77	81	82	0.55	0.68	0.77	98.2	163
50	37	27500	380	2890	82	409	83	84	83	0.67	0.78	0.85	122.1	192.8
			400	2900	81.9	433	80	83	83	0.6	0.72	0.8	121.6	215.8
			415	2910	83.9	450	77	81	82	0.55	0.68	0.76	121.3	234

*PERFORMANCE IS TYPICALLY GUARANTEED

MTSF 8" REWINDABLE MOTORS PERFORMANCE DATA 50 HZ

MTSF 8" [illegible] DATA 50 HZ														
P_N [HP]	P_N [kW]	Thrust F [N]	U_N [V]	N_N [min^{-1}]	I_N [A]	I_A [A]	η(Eff.)[%] at % load			COS Φ (PF) at % load			T_N [Nm]	T_A [Nm]
							50	75	100	50	75	100		
40	30	45000	380	2880	65.6	300	83.0	85.0	84.4	0.72	0.77	0.82	99.0	126.0
			400	2888	64.8	318	82.2	84.6	84.4	0.66	0.73	0.79	99.0	141.0
			415	2892	64.8	332	81.4	84.0	84.3	0.62	0.70	0.77	98.0	151.0
50	37	45000	380	2848	81.1	378	84.2	85.1	83.5	0.74	0.81	0.83	122.0	156.0
			400	2864	78	400	83.8	84.9	84.1	0.69	0.77	0.82	122.0	176.0
			415	2868	77.6	412	83.1	84.7	84.1	0.65	0.74	0.8	121.0	190.0
60	45	45000	380	2864	95.2	491	83.3	84.5	84.6	0.73	0.81	0.85	149.0	218.0
			400	2876	92.1	520	82.8	84.3	84.9	0.69	0.77	0.83	148.0	241.0
			415	2884	90.5	541	81.8	83.9	84.9	0.65	0.75	0.82	148.0	263.0
70	52	45000	380	2900	107.0	575	86.5	86.7	85.3	0.81	0.87	0.89	175.0	284.0
			400	2910	103.0	608	86.4	87.1	86.2	0.76	0.84	0.87	175.0	318.0
			415	2920	101.0	633	85.6	87.0	86.7	0.71	0.80	0.85	174.0	345.0
75	55	45000	380	2876	116.0	624	82.9	84.9	84.8	0.73	0.82	0.85	182.0	301.0
			400	2888	115.0	660	81.7	84.4	84.8	0.69	0.80	0.83	181.0	340.0
			415	2892	113.0	688	80.8	83.8	84.5	0.67	0.78	0.82	181.0	366.0
80	60	45000	380	2900	122.0	698	87.2	87.6	86.5	0.81	0.87	0.89	198.0	319.0
			400	2910	116.0	725	86.8	87.7	87.0	0.77	0.84	0.88	197.0	357.0
			415	2920	115.0	768	86.1	87.4	87.1	0.73	0.82	0.86	197.0	387.0
90	67	45000	380	2900	137.0	759	87.2	87.6	86.4	0.79	0.86	0.89	220.0	352.0
			400	2910	133.0	797	86.5	87.5	86.9	0.74	0.82	0.86	220.0	395.0
			415	2920	131.0	828	85.6	87.0	86.6	0.69	0.79	0.84	219.0	427.0
100	75	45000	380	2900	154.0	892	86.7	87.1	85.9	0.79	0.86	0.89	247.0	419.0
			400	2910	148.0	942	86.2	87.3	86.7	0.74	0.83	0.87	246.0	472.0
			415	2920	147.0	982	85.4	86.9	86.6	0.69	0.79	0.84	245.0	510.0
110	83	45000	380	2910	166.0	1019	87.8	88.3	87.2	0.81	0.87	0.89	275.0	483.0
			400	2920	160.0	1077	87.5	88.4	87.6	0.77	0.84	0.88	273.0	544.0
			415	2925	156.0	1120	87.2	88.4	88.0	0.73	0.82	0.86	273.0	586.0
125	93	45000	380	2910	188.0	1186	87.8	88.4	87.5	0.77	0.85	0.88	306.0	557.0
			400	2920	183.0	1276	87.2	88.3	87.8	0.71	0.81	0.86	305.0	626.0
			415	2930	184.0	1308	86.2	87.8	87.7	0.65	0.76	0.83	305.0	676.0

*PERFORMANCE IS TYPICALLY GUARANTEED

SML 6" REWINDABLE MOTORS PERFORMANCE DATA 50 HZ

SML 6" MOTORS PERFORMANCE DATA 50 Hz															
P_N	P_N	Thrust	U_N	Nn	I_N	I_A	η(Eff.)[%]			COS Φ (PF.)			T_N	T_A
[HP]	[kW]	F [N]	[V]	[min^{-1}]	[A]	[A]	at % load			at % load			[Nm]	[Nm]
							50	75	100	50	75	100		
5.5	4.0	15500	380	2860	11.7	49	0.62	0.69	0.71	0.53	0.63	0.72	13.3	22.0
			400	2880	12.2	52	0.59	0.66	0.70	0.48	0.58	0.67	13.2	24.4
			415	2890	12.0	54	0.56	0.64	0.68	0.45	0.59	0.68	13.1	26.3
7.5	5.5	15500	380	2860	14.9	62	0.69	0.74	0.75	0.53	0.64	0.74	18.3	27.5
			400	2870	15.8	65	0.64	0.70	0.73	0.74	0.58	0.68	18.2	30.6
			415	2890	14.5	67	0.63	0.70	0.73	0.42	0.62	0.63	18.2	33.0
10	7.5	15500	380	284	18.4	75	0.76	0.78	0.77	0.6	0.72	0.80	25.0	37.8
			400	2860	18.7	79	0.72	0.76	0.77	0.53	0.65	0.75	24.9	42.8
			415	2870	19.2	82	0.69	0.74	0.75	0.49	0.62	0.72	24.8	46.4
12.5	9.3	15500	380	2850	22.8	112	0.78	0.81	0.81	0.56	0.68	0.76	31.0	59.0
			400	2870	23.7	118	0.74	0.79	0.80	0.50	0.60	0.70	30.9	66.4
			415	2880	24.3	123	0.71	0.76	0.78	0.45	0.58	0.68	30.8	72.3
15.0	11.0	15500	380	2860	27.5	120	0.76	0.79	0.79	0.55	0.67	0.76	36.7	60.6
			400	2870	28.9	127	0.71	0.76	0.78	0.49	0.60	0.70	36.5	68.2
			415	2880	29.0	132	0.67	0.73	0.76	0.45	0.59	0.67	36.4	74.2
17.5	13.0	15500	380	2840	30.8	136	0.79	0.81	0.81	0.62	0.75	0.79	43.7	67.8
			400	2860	30.7	144	0.77	0.80	0.81	0.53	0.68	0.75	43.4	75.9
			415	2870	32.0	151	0.75	0.79	0.8	0.49	0.60	0.70	43.2	82.4
20.0	15.0	15500	380	2850	33.9	168	0.81	0.83	0.82	0.64	0.75	0.81	50.1	88.0
			400	2870	34.2	178	0.79	0.81	0.81	0.57	0.70	0.78	49.8	99.0
			415	2880	39.0	186	0.77	0.80	0.81	0.52	0.57	0.66	49.7	108
25	18.5	15500	380	2860	41.1	223	0.84	0.85	0.84	0.65	0.75	0.81	61.6	119
			400	2870	41.2	236	0.81	0.84	0.84	0.57	0.68	0.77	61.3	133
			415	2880	42.3	246	0.80	0.82	0.83	0.52	0.63	0.73	61.1	145

*PERFORMANCE IS TYPICALLY GUARANTEED

MTSF 10" REWINDABLE MOTORS PERFORMANCE DATA 50 HZ

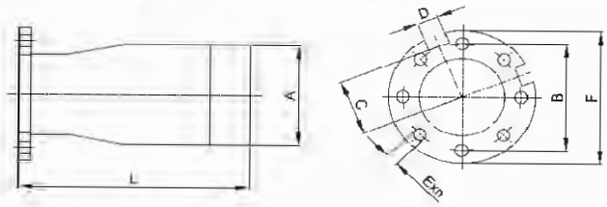
MTSF 10" MOTORS PERFORMANCE DATA 50 Hz														
P_N	P_N	Thrust	U_N	Nn	I_N	I_A	η(Eff.)[%]			COS Φ (PF.)			T_N	T_A
[HP]	[kW]	F [N]	[V]	[min^{-1}]	[A]	[A]	at % load			at % load			[Nm]	[Nm]
							50	75	100	50	75	100		
116	85	60000	380	2890	179	783	0.85	0.86	0.85	0.78	0.85	0.87	281	282
			400	2900	174	828	0.83	0.85	0.85	0.72	0.81	0.85	280	316
			415	2910	171	863	0.83	0.85	0.85	0.68	0.78	0.83	279	342
150	110	60000	380	2910	235	1095	0.86	0.87	0.86	0.72	0.81	0.85	361	418
			400	2920	232	1158	0.84	0.86	0.86	0.65	0.76	0.82	360	467
			415	2920	233	1206	0.83	0.85	0.86	0.59	0.71	0.79	360	507
177	130	60000	380	2900	266	1271	0.88	0.88	0.87	0.79	0.85	0.87	428	487
			400	2920	256	1344	0.87	0.88	0.88	0.74	0.82	0.86	425	546
			415	2920	255	1400	0.87	0.88	0.87	0.69	0.78	0.83	425	592
204	150	60000	380	2910	307	1502	0.87	0.87	0.86	0.79	0.85	0.88	492	568
			400	2920	298	1590	0.86	0.88	0.87	0.73	0.81	0.85	491	635
			415	2930	296	1655	0.86	0.87	0.87	0.67	0.77	0.83	489	689
252	185	60000	380	2900	390	2030	0.87	0.88	0.87	0.72	0.81	0.85	609	913
			400	2920	384	2148	0.86	0.88	0.88	0.64	0.75	0.81	605	1022
			415	2920	389	2237	0.84	0.86	0.86	0.57	0.70	0.79	605	1109

*PERFORMANCE IS TYPICALLY GUARANTEED

CONNECTING PIECES

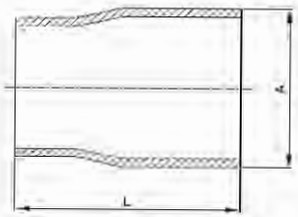
The tables below show the range of connecting pieces for connection of thread-to-flange and thread-to-thread.

Thread-to-flange (standard flange to EN 1092-1)



Dimensional sketch of the connecting piece thread-to-flange.

Thread-to-thread



Dimensional sketch of the connecting piece thread-to-thread.

Type	Pump outlet	Connecting piece	A	Dimensions [mm]						v1	v2	n
				B	C	D	E	F	L			
QF-30	Rp 2 ½	R 2 ½→ DN 50 PN 16/40	R 2 ½	125	65	40	Ø19	Ø165	170	60	90	4
		R 2 ½→ DN 65 PN 16/40	R 2 ½	145	71	30	Ø19	Ø185	170	22.5	45	8
		R 2 ½→ DN 80 PN 16/40	R 2 ½	160	82.5	40	Ø19	Ø200	170	22.5	45	8
QF-50	Rp 3	R 3 → DN 65 PN 16/40	R 3	145	71	30	Ø19	Ø185	170	22.5	45	8
		R 3 → DN 80 PN 16/40	R 3	160	82.5	40	Ø19	Ø200	170	22.5	45	8
		R 3 → DN 100 PN 16/40	R 3	180/190	100	40	Ø19/Ø23	Ø235	170	22.5	45	8
QF-75 QF-100	Rp 3 Rp 4	R 3 → DN 65 PN 16/40	R 3	145	71	30	Ø19	Ø185	170	22.5	45	8
		R 3 → DN 80 PN 16/40	R 3	160	82.5	40	Ø19	Ø200	170	22.5	45	8
		R 3 → DN 100 PN 16/40	R 3	180/190	100	40	Ø19/Ø23	Ø235	170	22.5	45	8
		R 4 → DN 100 PN 16/40	R 4	180/190	100	40	Ø19/Ø23	Ø235	180	22.5	45	8
QF-125 QF-160	Rp 5	R 5 → DN 100 PN 16/40	R 5	180/190	82	35	Ø19/Ø23	Ø235	195	22.5	45	8
		R 5 → DN 125 PN 16/40	R 5	210/220	99	37	Ø19/Ø28	Ø270	195	22.5	45	8
		R 5 → DN 150 PN 16/40	R 5	240/250	115	36	Ø23/Ø28	Ø300	195	22.5	45	8
QF-210 QF-270 QF-360	Rp 6	R 6 → DN 125 PN 16/40	R 6	210/220	99	36	Ø19/Ø28	Ø270	195	22.5	45	8
		R 6 → DN 150 PN 16/40	R 6	240/250	114	36	Ø23/Ø28	Ø300	195	22.5	45	8
		R 6 → DN 200 PN 16	R 6	295	134	36	Ø23	Ø340	195	15	30	12
		R 6 → DN 200 PN 40	R 6	320	151	36	Ø31	Ø375	200	15	30	12

Type	Pump outlet	Connecting piece	Dimensions		L [mm]
			A	B	
QF-125 QF-160	Rp 5	R 5→ R 4	Rp 5	Rp 4	121
		R 5→ R 6	Rp 5	Rp 6	150
	5" NPT	5" NPT→ 4" NPT	5" NPT	4" NPT	121
		5" NPT→ 6" NPT	5" NPT	6" NPT	150
QF-210 QF-270 QF-360	Rp 6	R 6→ R 5	Rp 6	Rp 5	150
	6" NPT	6" NPT→ 5" NPT	6" NPT	5" NPT	150

HEAD LOSSES IN ORDINARY WATER PIPES

MISCELLANEOUS

UPPER FIGURES INDICATE THE VELOCITY OF WATER IN M/SEC.
LOWER FIGURES INDICATE HEAD LOSS IN METERS PER 100 METERS OF STRAIGHT PIPES.

	Quantity of water		Head losses in ordinary water pipes											
			Nominal pipe diameter in inches and internal diameter in [mm]											
m^3/h	Litres/min.	Litres/sec.	1/2" 15.75	3/4" 21.25	1" 27.00	1 1/4" 35.75	1 1/2" 41.25	2" 52.50	2 1/2" 68.00	3" 80.25	3 1/2" 92.50	4" 105.0	5" 130.0	6" 155.5
0.6	10	0.16	0.855 9.910	0.470 2.407	0.292 0.784									
0.9	15	0.25	1.282 20.11	0.705 4.862	0.438 1.570	0.249 0.416								
1.2	20	0.33	1.710 33.53	0.940 8.035	0.584 2.588	0.331 0.677	0.249 0.346							
1.5	25	0.42	2.138 49.93	1.174 11.91	0.730 3.834	0.415 1.004	0.312 0.510							
1.8	30	0.50	2.565 69.34	1.409 16.50	0.876 5.277	0.498 1.379	0.374 0.700	0.231 0.223						
2.1	35	0.58	2.993 91.54	1.644 21.75	1.022 6.949	0.581 1.811	0.436 0.914	0.269 0.291						
2.4	40	0.67		1.879 27.66	1.168 8.820	0.664 2.290	0.499 1.160	0.308 0.368						
3.0	50	0.83		2.349 41.40	1.460 13.14	0.830 3.403	0.623 1.719	0.385 0.544	0.229 0.159					
3.6	60	1.00		2.819 57.74	1.751 18.28	0.996 4.718	0.748 2.375	0.462 0.751	0.275 0.218					
4.2	70	1.12		3.288 76.49	2.043 24.18	1.162 6.231	0.873 3.132	0.539 0.988	0.321 0.287	0.231 0.131				
4.8	80	1.33			2.335 30.87	1.328 7.940	0.997 3.988	0.616 1.254	0.367 0.363	0.263 6.164				
5.4	90	1.50			2.627 38.30	1.494 9.828	1.122 4.927	0.693 1.551	0.413 0.449	0.269 0.203				
6.0	100	1.67			2.919 46.49	1.660 11.90	1.247 5.972	0.770 1.875	0.459 0.542	0.329 0.244	0.248 0.124			
7.5	125	2.08			3.649 70.41	2.075 17.93	1.558 8.987	0.962 2.802	0.574 0.809	0.412 0.385	0.310 0.185	0.241 0.101		
9.0	150	2.50				2.490 25.11	1.870 12.53	1.154 3.903	0.668 1.124	0.494 0.506	0.372 0.256	0.289 0.140		
10.5	175	2.92				2.904 33.32	2.182 16.66	1.347 5.179	0.803 1.488	0.576 0.670	0.434 0.338	0.337 0.184		
12	200	3.33				3.319 42.75	2.493 21.38	1.539 6.624	0.918 1.901	0.659 0.855	0.496 0.431	0.385 0.234	0.251 0.084	
15	250	4.17				4.149 64.86	3.117 32.32	1.924 10.03	1.147 2.860	0.823 1.282	0.620 0.646	0.481 0.350	0.314 0.126	
18	300	5.00					3.740 45.52	2.309 14.04	1.377 4.009	0.988 1.792	0.744 0.903	0.577 0.488	0.377 0.175	0.263 0.074
24	400	6.67					4.987 78.17	3.078 24.04	1.836 6.828	1.317 3.053	0.992 1.530	0.770 0.829	0.502 0.294	0.351 0.124
30	500	8.33						3.848 36.71	2.295 10.40	1.647 4.622	1.240 2.315	0.962 1.254	0.628 0.445	0.439 0.187
36	600	10.0						4.618 51.64	2.753 14.62	1.976 8.505	1.488 3.261	1.155 1.757	0.753 0.623	0.526 0.260
42	700	11.7							3.212 19.52	2.306 8.693	1.736 4.356	1.347 2.345	0.879 0.831	0.614 0.347
48	800	13.3							3.871 25.20	2.635 11.18	1.984 5.582	1.540 3.009	1.005 1.066	0.702 0.445
54	900	15.0							4.130 31.51	2.964 13.97	2.232 6.983	1.732 3.762	1.130 1.328	0.790 0.555
60	1000	16.7							4.589 38.43	3.294 17.06	2.480 8.521	1.925 4.595	1.256 1.616	0.877 0.674
75	1250	20.8								4.117 26.10	3.100 13.00	2.406 7.010	1.570 2.458	1.097 1.027
90	1500	25.0								4.941 36.97	3.720 18.42	2.887 9.892	1.883 3.468	1.316 1.444
105	1750	29.2									4.340 24.76	3.368 13.30	2.197 4.665	1.535 1.934
120	2000	33.3									4.960 31.94	3.850 17.16	2.511 5.995	1.754 2.496
150	2500	41.7										4.812 26.26	3.139 9.216	2.193 3.807
180	3000	50.0											3.767 13.05	2.632 5.417
240	4000	66.7											5.023 22.72	3.509 8.926
300	5000	83.3												4.386 14.42
90 ° bends, slide valves			1.0	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.6	1.7	2.0	2.5
T-pieces, non-return valves			4.0	4.0	4.0	5.0	5.0	5.0	6.0	6.0	6.0	7.0	8.0	9.0

The table is calculated in accordance with H. Lang's new formula a = 0.02 and for a water temperature of 10°C.
The head loss in bends, slide valves, T-piece sand non-return valves is equivalent to the meters of straight pipes stated in the last two lines of the table.
To find the head loss in foot valves, multiply the loss in T-pieces by two.

HEAD LOSSES IN PLASTIC PIPES

MISCELLANEOUS

FIGURES INDICATE HEAD LOSS IN METERS PER 100 METERS OF STRAIGHT PIPES.

Quantity of water			HEAD LOSSES IN WATER PIPES										
			PELM/PEH PN 10										
			PELM			PEH							
			NOMINAL PIPE SIZE IN MM										
m3/hr	Ltr./min.	Liters/Sec.	25	32	40	50	63	75	90	110	125	140	160
0.6	10	0.16	0.64	0.19	0.06								
0.9	15	0.25	1.35	0.40	0.13	0.04							
1.2	20	0.33	2.31	0.69	0.23	0.07							
1.5	25	0.42	3.49	1.05	0.35	0.11	0.03						
1.8	30	0.50	4.89	1.47	0.49	0.16	0.05						
2.1	35	0.58	6.50	1.95	0.66	0.22	0.07						
2.4	40	0.67	8.33	2.50	0.84	0.28	0.09	0.03					
3	50	0.83	12.59	3.78	1.27	0.43	0.14	0.06					
3.6	60	1.00	17.64	5.30	1.79	0.6	0.19	0.08	0.03				
4.2	70	1.12	23.46	7.06	2.38	0.8	0.26	0.11	0.04				
4.8	80	1.33	30.04	9.03	3.05	1.03	0.33	0.14	0.05				
5.4	90	1.50	37.35	11.23	3.79	1.28	0.41	0.17	0.07	0.02			
6	100	1.67	45.39	13.65	4.61	1.55	0.50	0.21	0.08	0.03			
7.5	125	2.08	68.59	20.63	6.96	2.35	0.76	0.32	0.13	0.05	0.02		
9	150	2.50		28.91	9.76	3.29	1.07	0.45	0.18	0.07	0.03		
10.5	175	2.92		38.46	12.98	4.38	1.42	0.60	0.25	0.09	0.05		
12	200	3.33		49.23	16.62	5.61	1.82	0.78	0.32	0.12	0.06	0.03	
15	250	4.17			25.12	8.48	2.75	1.17	0.48	0.18	0.09	0.05	0.02
18	300	5.00			35.2	11.88	3.86	1.65	0.68	0.25	0.13	0.07	0.04
24	400	6.67				20.23	6.57	2.81	1.15	0.43	0.23	0.13	0.07
30	500	8.33				30.58	9.93	4.25	1.75	0.65	0.35	0.20	0.10
36	600	10.00				42.85	13.91	5.95	2.45	0.92	0.49	0.28	0.14
42	700	11.70				56.99	18.51	7.92	3.26	1.22	0.66	0.38	0.19
48	800	13.30					23.69	10.14	4.17	1.57	0.84	0.48	0.25
54	900	15.00					29.46	12.61	5.19	1.95	1.05	0.60	0.31
60	1000	16.70					35.81	15.33	6.31	2.37	1.27	0.73	0.38
75	1250	20.80						23.16	9.54	3.59	1.92	1.11	0.58
90	1500	25.00						32.46	13.36	5.03	2.70	1.55	0.81
105	1750	29.00						43.17	17.78	6.69	3.59	2.07	1.08
120	2000	33.30							22.76	8.57	4.60	2.65	1.38
150	2500	41.70							34.39	12.95	6.95	4.00	2.09
180	3000	50.00							48.19	18.15	9.74	5.61	2.93
240	4000	66.70								30.91	16.59	9.56	4.99
300	5000	83.30									25.07	14.44	7.54

The table is based on a nomogram.
Roughness: K = 0.01 mm.
Water temperature: t = 10°C.

SUBMERSIBLE PUMPS SP A, SP

Cable dimensions at 3 X 400 V, 50 Hz, **DOL**
Voltage drop: 3%

CABLE AT 3 X 400 V, 50 Hz VOLTAGE DROP : 3%

Motor	kW	I_n [A]	Cos φ 100 %	Dimensions [mm^2]															
				1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
4"	0.37	1.4	0.64	462	767														
4"	0.55	2.2	0.64	294	488	777													
4"	0.75	2.3	0.72	250	416	662	987												
4"	1.1	3.4	0.72	169	281	448	668												
4"	1.5	4.2	0.75	132	219	348	520	857											
4"	2.2	5.5	0.82	92	153	244	364	602	951										
4"	3	7.85	0.77	69	114	182	271	447	705										
4"	4	9.6	0.8	54	90	143	214	353	557	853									
4"	5.5	13	0.81	39	66	104	156	258	407	624	855								
4"	7.5	18.8	0.78	28	47	75	112	185	291	445	609	841							
6"	4	9.2	0.82	55	91	146	218	359	566	867									
6"	5.5	13.6	0.77	40	66	105	157	258	407	622	850								
6"	7.5	17.6	0.8	29	49	78	117	193	304	465	637	882							
6"	9.3	21.8	0.81	23	39	62	93	154	243	372	510	706	950						
6"	11	24.8	0.83		34	53	80	132	209	320	440	610	823						
6"	13	30	0.81		28	45	68	112	176	270	370	513	690	893					
6"	15	34	0.82			39	59	97	154	236	324	449	604	783	947				
6"	18.5	42	0.81				48	80	126	193	265	366	493	638	770	914			
6"	22	48	0.84				41	67	107	164	225	313	422	549	665	793	927		
6"	26	57	0.84					57	90	138	189	263	355	462	560	667	781	937	
6"	30	66.5	0.83					49	78	119	164	227	307	398	482	574	670	803	926
6"	37	85.5	0.79						63	97	133	183	246	317	382	452	525	624	714
8"	22	48	0.84				41	67	107	164	225	313	422	549	665	793	927		
8"	26	56.5	0.85					57	90	138	189	263	356	464	563	672	787	947	
8"	30	64	0.85					50	79	122	167	233	314	409	497	593	695	836	968
8"	37	78.5	0.85						65	99	136	190	256	334	405	483	567	682	789
8"	45	96.5	0.82						54	83	114	158	213	276	334	396	462	553	636
8"	55	114	0.85							68	94	131	177	230	279	333	390	469	544
8"	63	132	0.83								83	115	155	201	243	289	338	404	466
8"	75	152	0.86								70	97	132	171	208	249	292	353	409
8"	93	186	0.86									79	107	140	170	204	239	288	335
8"	110	224	0.87										89	116	141	169	198	240	279
10"	75	156	0.84								69	96	130	169	205	244	285	343	396
10"	93	194	0.82									79	106	137	166	197	230	275	316
10"	110	228	0.84										89	116	140	167	195	234	271
10"	132	270	0.84											98	118	141	165	198	229
10"	147	315	0.81												103	122	142	169	194
10"	170	365	0.81													105	122	146	168
10"	190	425	0.79														106	125	144
12"	147	305	0.83												105	125	146	175	202
12"	170	345	0.85												92	110	129	155	180
12"	190	390	0.84													98	114	137	158
12"	220	445	0.85														100	120	139
12"	250	505	0.85															106	123
Max. current for cable [A]*				23	30	41	53	74	99	131	162	202	250	301	352	404	461	547	633

*At particularly favourable heat dissipation condition.
Maximum cable length in meters from motor starter to pump.
For motors with star delta starting, the cable length can be calculated by multiplying the relevant cable length from above table by $\sqrt{3}$

SUBMERSIBLE PUMPS SP A, SP

Cable dimensions at 3 X 400 V, 50 Hz
Voltage drop: 1%

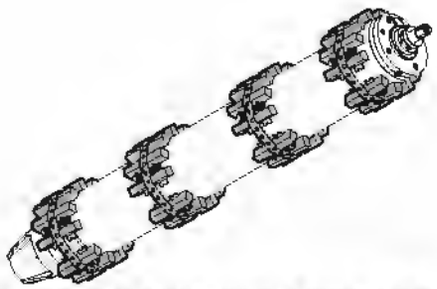
CABLE AT 3 X 400 V, 50 Hz VOLTAGE DROP : 1%																		
MOTOR	KW	Iη [A]	Cos φ 100%	DIMENSIONS [mm²]														
				1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
4"	0.37	1.4	0.64	192	318	506	752												
4"	0.55	2.2	0.64	122	203	322	479	783											
4"	0.75	2.3	0.72	104	173	275	409	672											
4"	1.1	3.4	0.72	70	117	186	277	455	712										
4"	1.5	4.2	0.75	55	91	145	215	354	556	844									
4"	2.2	5.5	0.82	38	64	101	151	249	393	599	818								
4"	3	7.85	0.77	29	47	75	112	185	291	442	601	822							
4"	4	9.6	0.8	22	37	59	89	146	230	350	477	656	874						
4"	5.5	13	0.81	16	27	43	65	107	168	256	349	480	641	821	983				
4"	7.5	18.8	0.78		20	31	46	76	120	183	248	340	452	577	687	804	923		
6"	5.5	13.6	0.77	16	27	44	65	107	168	255	347	475	629	801	953				
6"	7.5	17.6	0.8	12	20	32	48	80	125	191	260	358	477	610	728	855	984		
6"	9.3	21.8	0.81		16	26	39	64	100	153	208	287	382	490	586	689	795	935	
6"	11	24.8	0.83		14	22	33	55	86	132	180	248	332	427	512	604	699	826	942
6"	13	30	0.81			19	28	46	73	111	151	208	278	356	426	501	577	680	772
6"	15	34	0.82				24	40	64	97	132	182	244	313	375	441	510	601	684
6"	18.5	42	0.81				20	33	52	79	108	149	198	254	304	358	412	486	551
6"	22	48	0.84					28	44	67	92	127	170	220	264	312	361	428	489
6"	26	57	0.84					24	37	57	78	107	144	185	222	263	304	361	412
6"	30	66.5	0.83						32	49	67	92	124	159	191	225	261	308	351
6"	37	85.5	0.79							40	54	74	99	126	150	176	203	238	269
8"	22	48	0.84					28	44	67	92	127	170	220	264	312	361	428	489
8"	26	56.5	0.85					23	37	57	78	107	144	186	224	265	307	365	418
8"	30	64	0.85						33	50	68	95	127	164	197	234	271	322	369
8"	37	78.5	0.85						27	41	56	77	104	134	161	191	221	263	301
8"	45	96.5	0.82							34	47	64	86	110	132	155	180	212	241
8"	55	114	0.85								38	53	71	92	111	131	152	181	207
8"	63	132	0.83									47	62	80	96	113	131	155	177
8"	75	152	0.86									40	53	69	83	98	114	136	156
8"	93	186	0.86										43	56	68	80	94	111	128
8"	110	224	0.87											47	56	67	78	93	107
10"	75	156	0.84										52	68	81	96	111	132	151
10"	92	194	0.82										43	55	66	77	89	105	120
10"	110	228	0.84											46	56	66	76	90	103
10"	132	270	0.84												47	55	64	76	87
10"	147	315	0.81													48	55	65	74
10"	170	365	0.81															56	63
10"	190	425	0.79															48	54
12"	147	305	0.83													49	57	67	77
12"	170	345	0.85														50	60	68
12"	190	390	0.84															53	60
12"	220	445	0.85																53
12"	250	505	0.85																
MAX. CURRENT FOR CABLE [A]*				18.5	25	34	43	60	80	101	126	153	196	38	276	319	364	430	497

*At Particularly Favorable Heat Dissipation Conditions.
Maximum Cable Length in Meters from Motor Starter to Pump.

APPLICATIONS

Cathodic protection by means of zinc can be used for corrosion protection of QF pumps in chloride-containing liquids, such as brackish water and seawater.

Sacrificial anodes are placed on the outside of the pump and motor as protection against corrosion.



Submersible motor fitted with anode strings

The number of anodes required depends on the pump and motor in question.

FLOW SLEEVES

Shakti Pumps offers a complete range of stainless-steel flow sleeves for both vertical and horizontal operation. Flow sleeves are recommended for all applications in which motor cooling is insufficient. The result is a general extension of motor life. Flow sleeves are to be fitted in these cases:

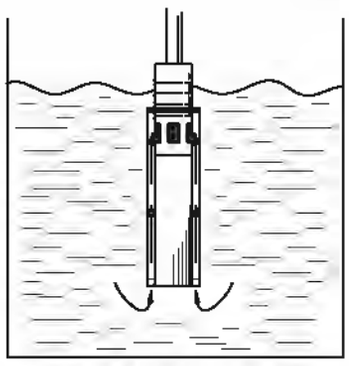
- If the submersible pump is exposed to high thermal load such as current unbalance, dry running, overload, high ambient temperature and bad cooling conditions.
- If aggressive liquids are pumped, since corrosion is doubled for every 10 °C the temperature rises.
- If sedimentation or deposits occur around and/or on the motor.

See example

Note: More information about flow sleeves is available on request.

Example of calculated flow sleeve

The flow sleeve is fitted to the submersible motor so that the liquid passes close by the motor on its way towards the pump suction interconnector, thus ensuring optimum cooling of the motor. See fig.



Flow sleeve function

The flow sleeve is designed so that the flow velocity past the motor is minimum 0.5 m/s and maximum 3 m/s to ensure optimum pump operating conditions.

Use this formula to calculate flow velocity:

$$V = \frac{Q \times 353}{D^2 - d^2} \text{ [m/s]}$$

Q	m^3/h	Flow rate
D	mm	Sleeve diameter
d	mm	Pump diameter

Aug/2017-18/1000 VC - 0000 | Aug 2017/R0 | SAP No. 2900000115

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