

SUBMERSIBLE PUMPS & MOTORS



50 HZ BOOKLET

SHAKTI
PUMPING LIFE

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SUBMERSIBLE MOTORS

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SUBMERSIBLE MOTORS

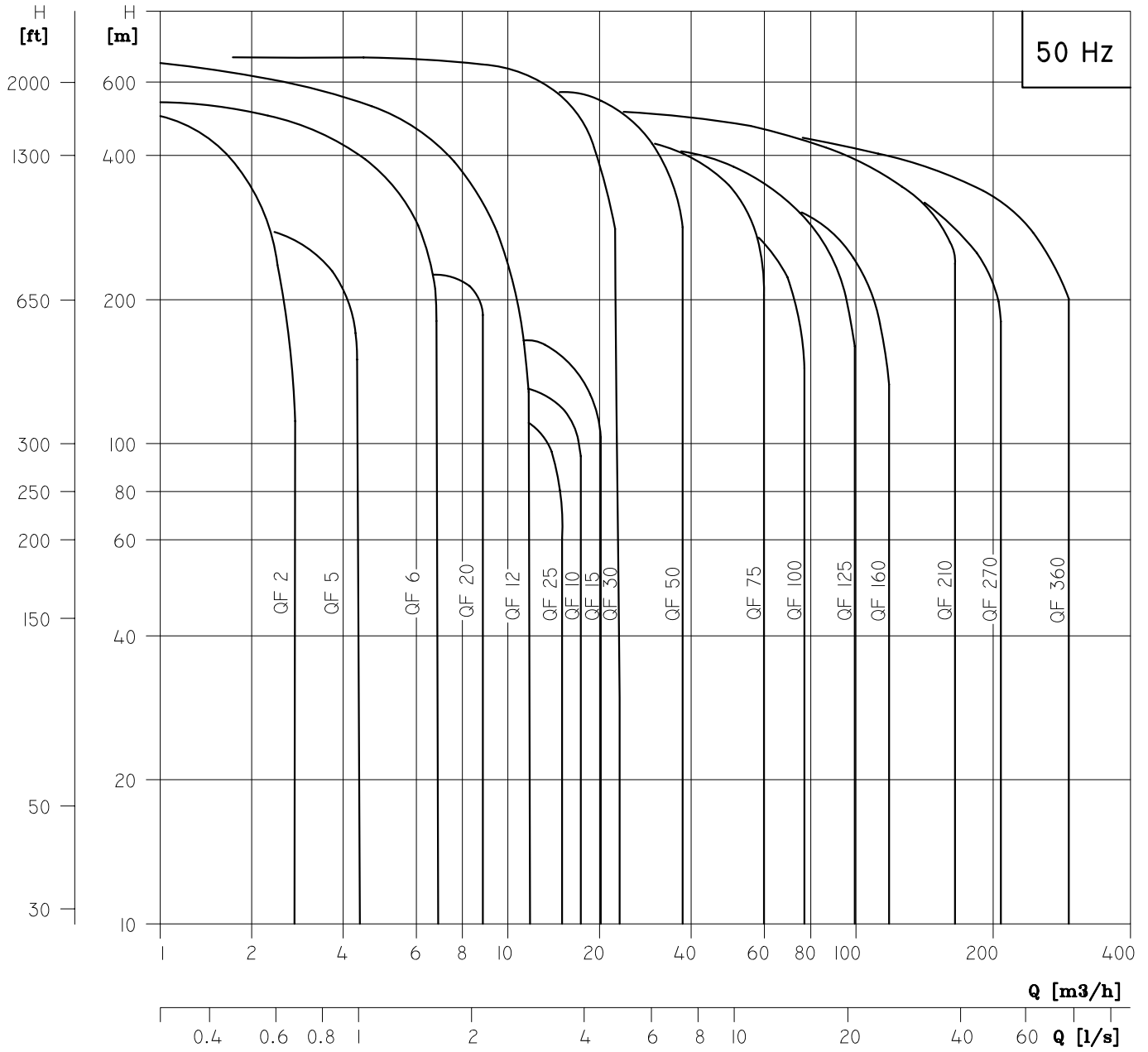
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PERFORMANCE RANGE

SUBMERSIBLE PUMPS QF



SUBMERSIBLE PUMPS QF

PUMP RANGE

Type	QF2	QF5	QF6	QF12	QF20	QF25	QF10	QF15	QF30	QF50	QF75	QF100	QF125	QF160	QF210	QF270	QF360
Steel : AISI SS 304	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Connection: Rp (Inches)																	
BSP Thread	1 ^{1/4}	1 ^{1/4}	1 ^{1/2}	2	2	2	2	2	2 ^{1/2}	3	3 4	3 4	5	5	6	6	6
?NPT Thread	1 ^{1/4}	1 ^{1/4}	1 ^{1/2}	2	2	2	2	2	3	3	3 4	3 4	5	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 autotransformer is recommended above 7.5 kw.

GENERAL DATA

SUBMERSIBLE PUMPS QF

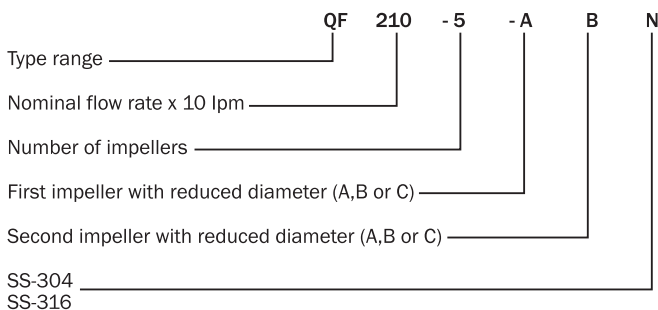
APPLICATIONS

The QF pumps are suitable for the following applications :

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

TYPE KEY

Example



PUMPED LIQUIDS

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

OPERATING CONDITIONS

- Flow rate, Q : 0.1 - 280 m³/h
- Head, H : Maximum 670m

Maximum Liquid Temperature

Motor	Installation		
	Flow Velocity Past Motor	Vertical	Horizontal
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, AnnexA
- The performance curves show pump performance at actual speed cf. standard motor range

The speed of the motors is approximately :

- 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 1mm²/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.

0F2, 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, 0F160, 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

- **NPSHR** 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

SUBMERSIBLE PUMPS QF

FEATURES AND BENEFITS

A WIDE PUMP RANGE

We offer submersible pumps with energy-efficient duty points ranging from 1m³/h to 280m³/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 PUMP EFFICIENCY

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

EXAMPLE:

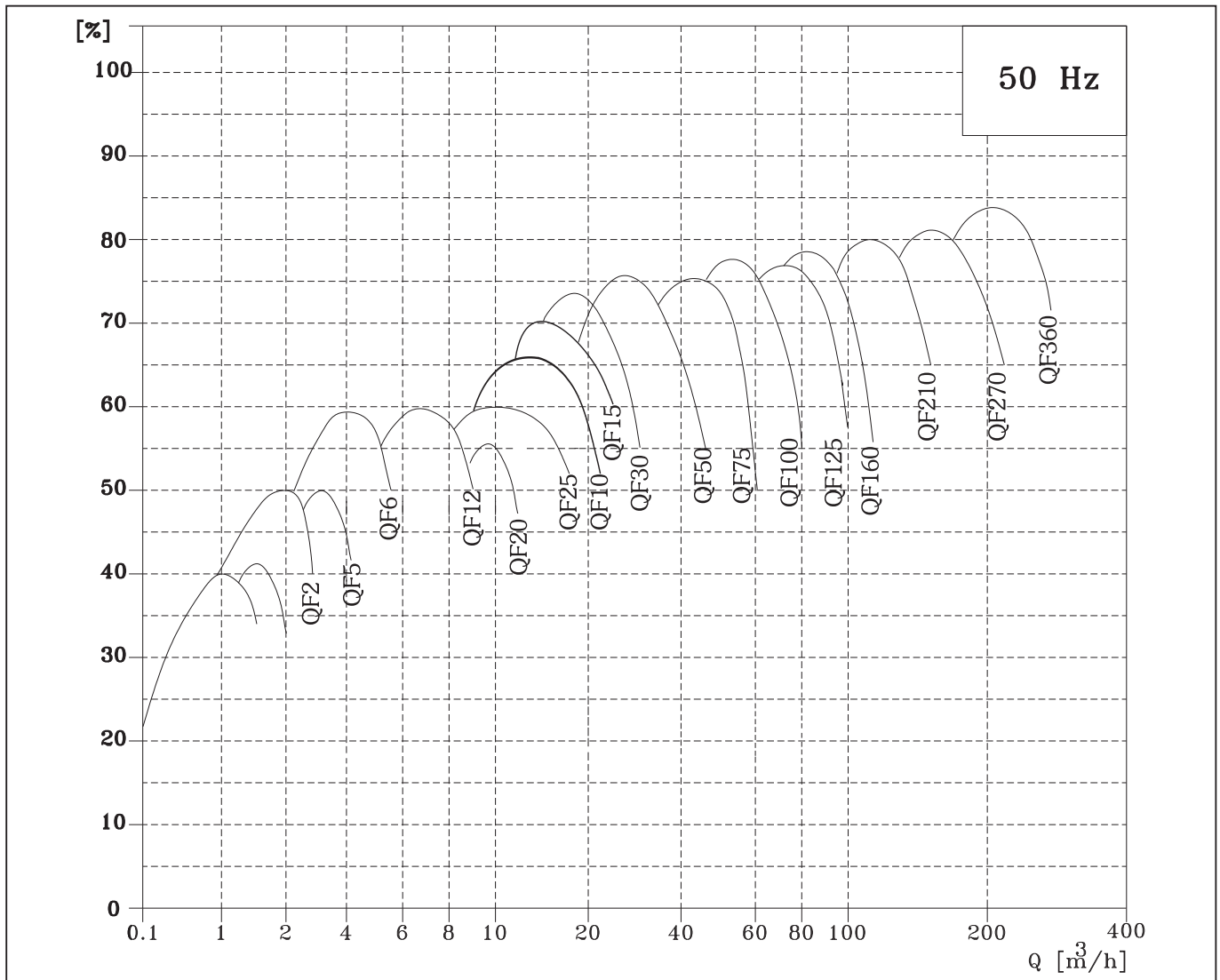
When pumping 125 m³/h with a head of 200m for a period of 10 years \$ 60,000 will be saved if pumps and motors having a 10% higher efficiency are chosen and the price is \$ 0.10 per kWh.

APPLICATIONS

We offer 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



SUBMERSIBLE PUMPS

SUBMERSIBLE PUMPS QF

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 bearings 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.

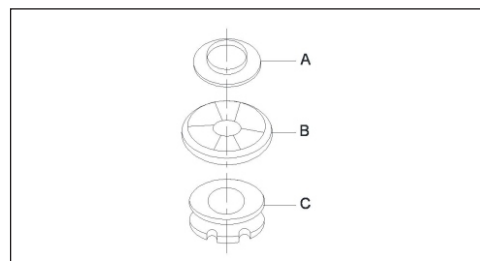
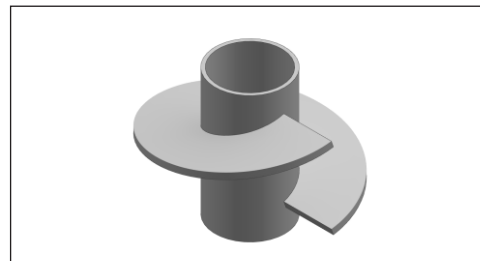
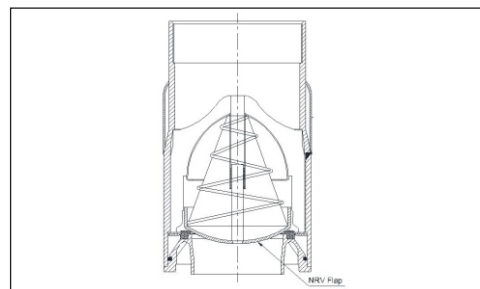
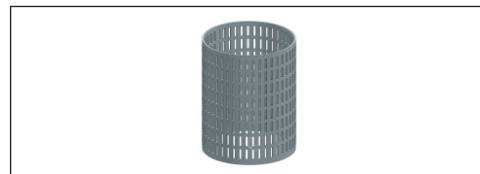
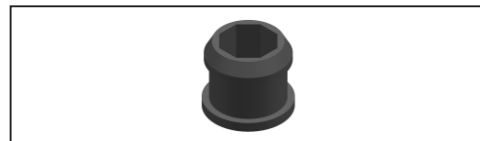
STOP RING

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

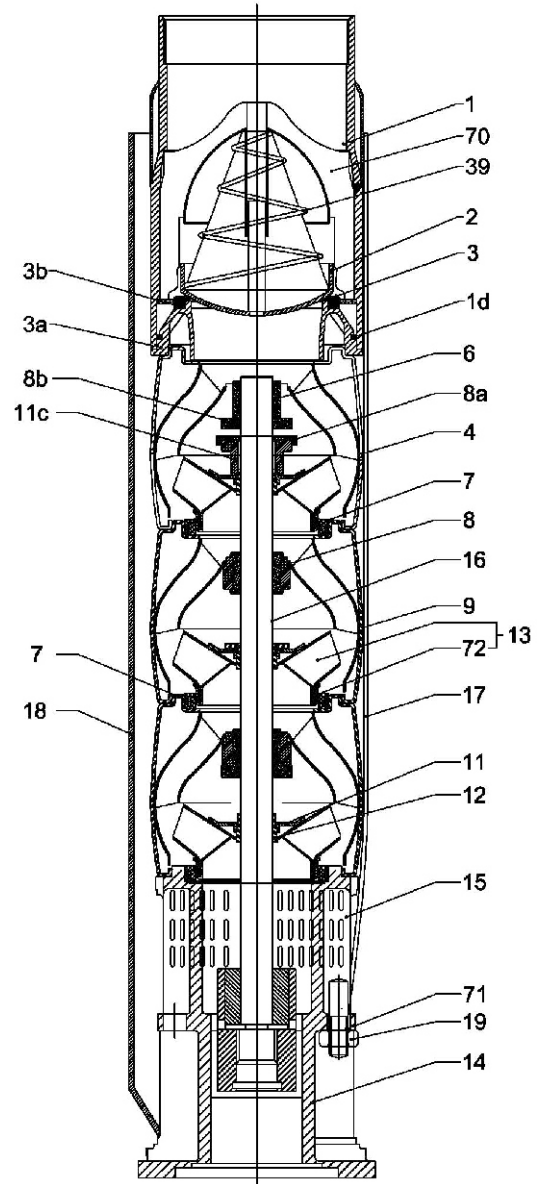
The stationary part of the stop ring (A) is secured in the top bowl (Upper intermediate chamber). The rotating part (B) is fitted above the collet [split cone (C)].



MATERIAL SPECIFICATION

Example: QF - 125

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



SUBMERSIBLE MOTORS

FEATURES AND BENEFITS

A COMPLETE MOTOR RANGE

We offer a complete submersible motor range in different voltages :

- 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 MS 100, MS 101 and MS 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



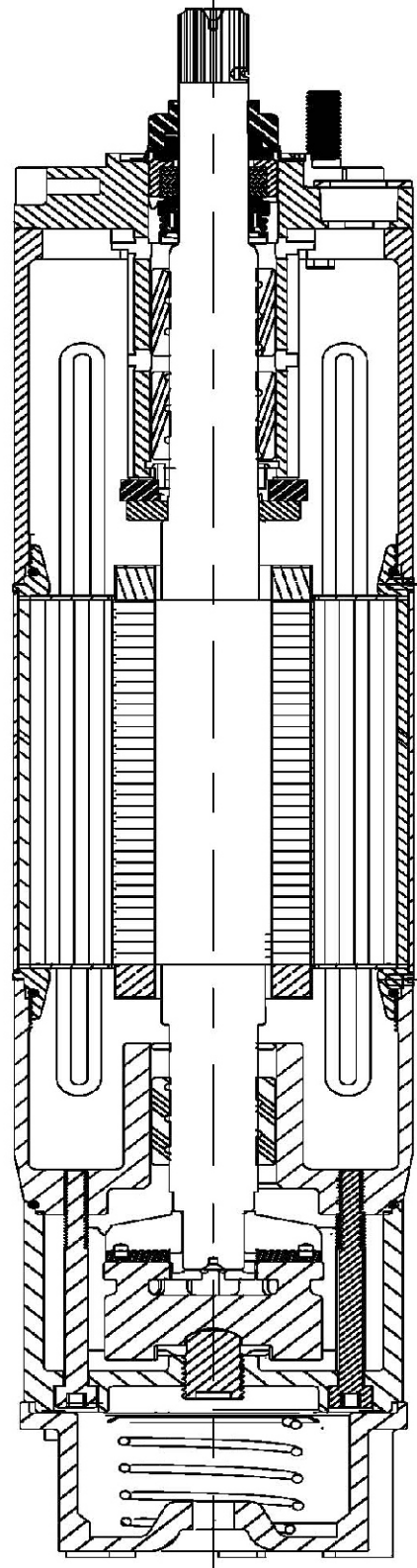
OVERTEMPERATURE PROTECTION

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 UPTHURST

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 Shakti pumps and motors are protected against upthrust as standard, preventing upthrust from occurring in the critical startup phase. The protection consists of a built-in upthrust ring.

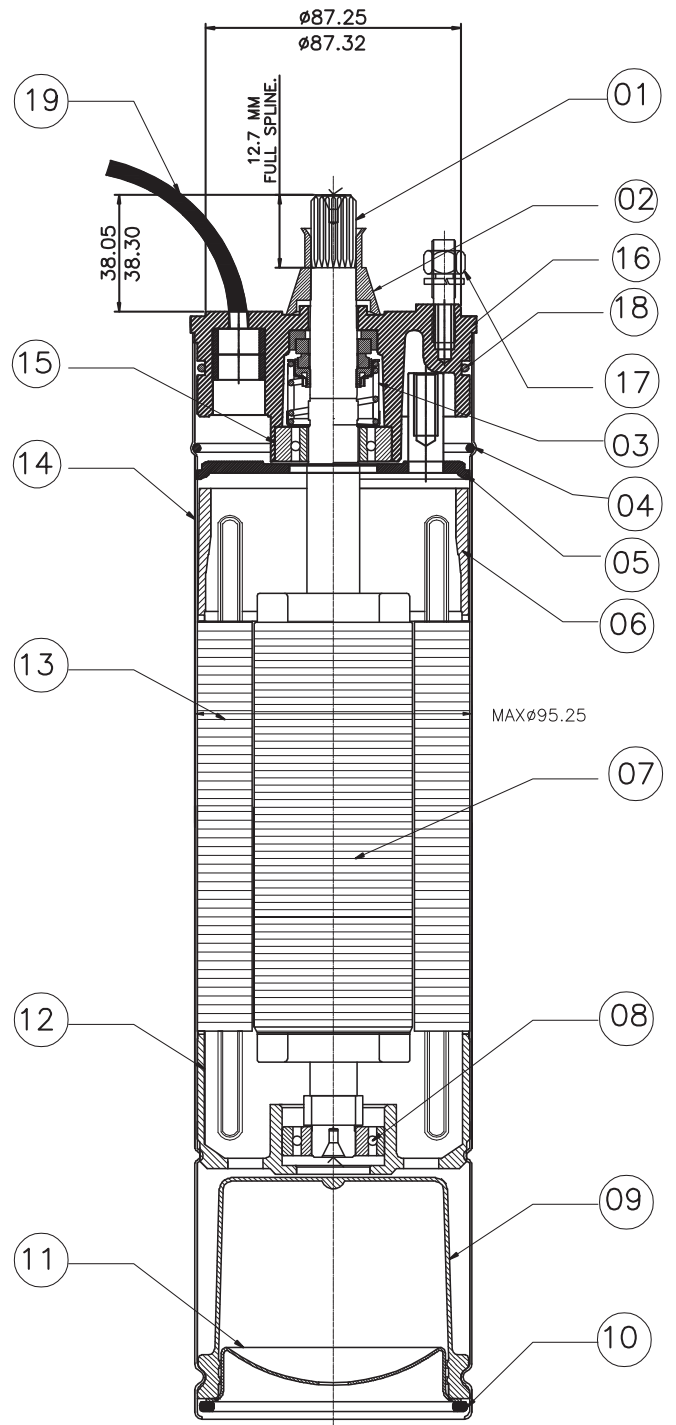
Example: MTSF - 150



SUBMERSIBLE PUMPS

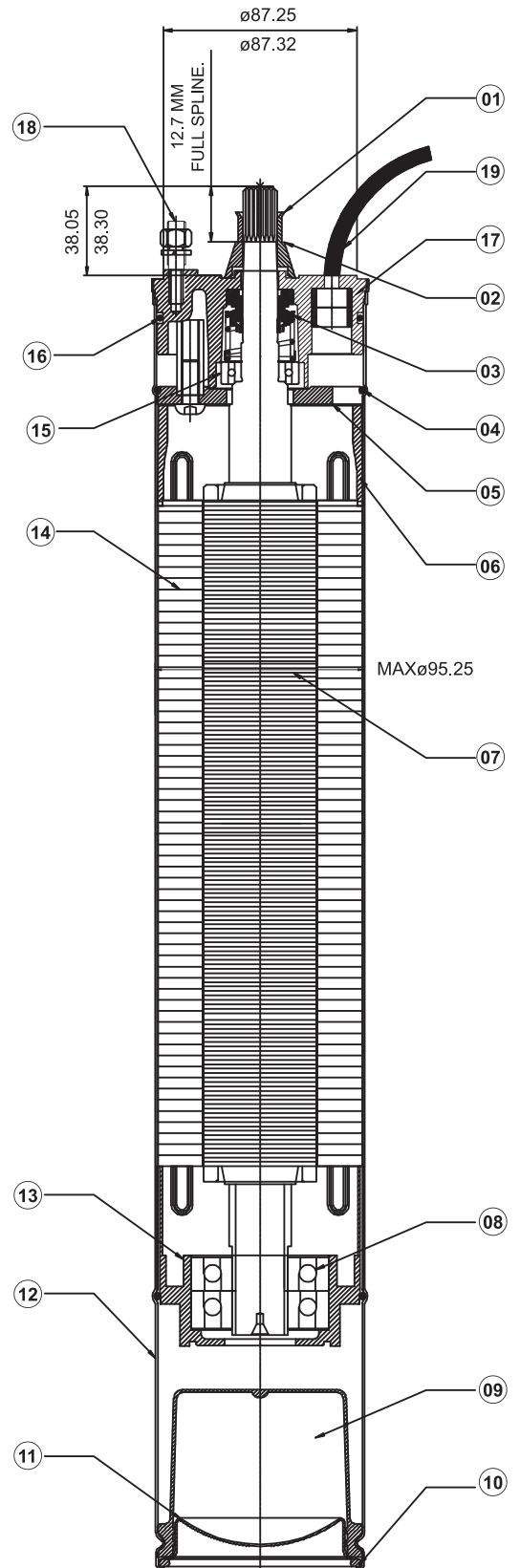
MATERIAL SPECIFICATION RO-100

SR.NO.	DESCRIPTION	MATERIAL
1	SHAFT	SS AISI 420
2	SAND SLINGER	NBP
3	MEC I-1SEAL	N/A
4	CIRCLIP(931DX932.8)	SPRING STEEL
5	WINDING COVER PLATE	M.S.
6	COIL SPACER	PPS
7	ROTOR	N/A
8	BEARING (6202)B	N/A
9	DIAPHRAGM	NBR
10	CIRCLIP(871DX5MM)	SS A ISI 304
11	DIAPHRAGM COVER	SS AISI 304
12	LOWER END BRACKET	ALUMINIUM
13	STAMPING	CR ELECTRIC
14	OUTER PIPE	SS AISI304
15	BEARING (7203B)L57	N/A
16	UPPER END BRACKET	CI FG-260
17	STUD M8X35	N/A
18	O-PING(8410X03.5)	11 BR



MATERIAL SPECIFICATION RO-101

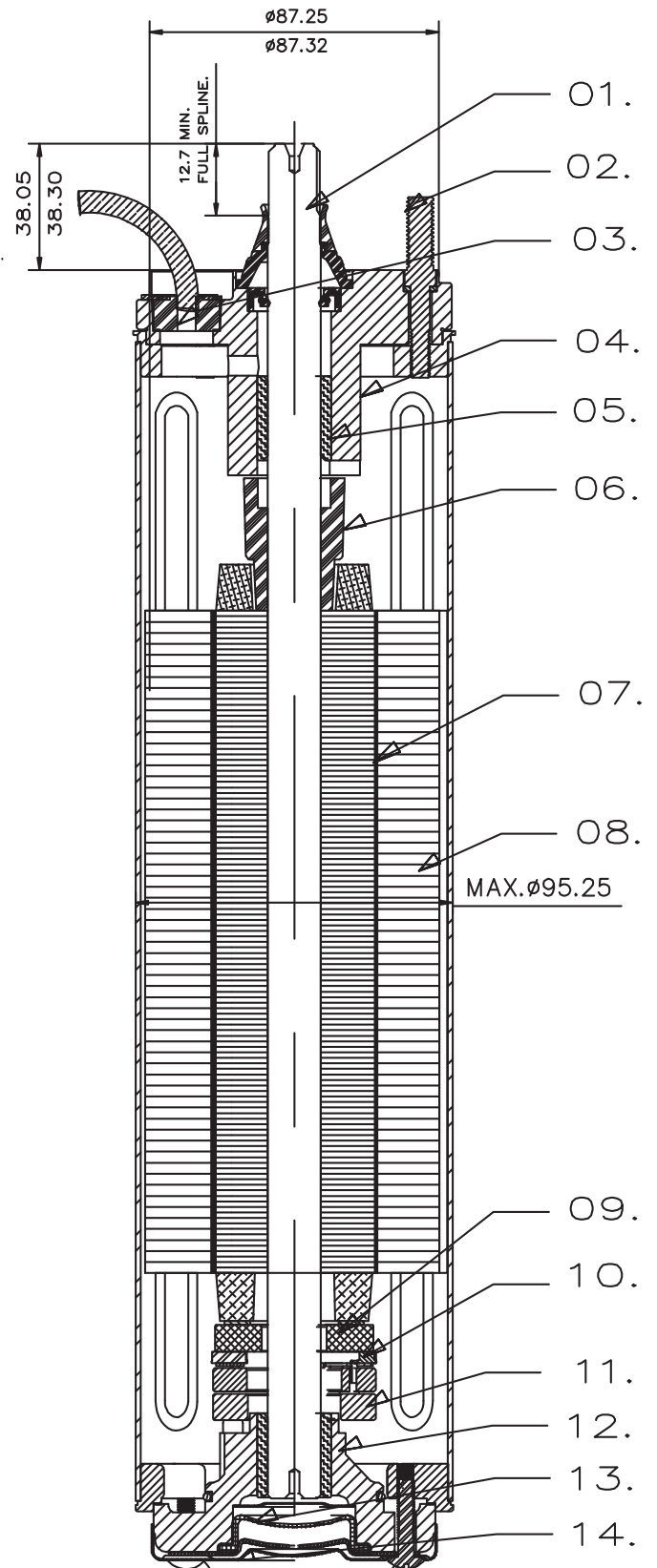
S. No.	DESCRIPTION	MATERIAL
1	SHAFT	SS AISI 420
2	SAND SLINGER	MIR
3	MECH SEAL	N/A
4	CIRCLIP (930 X cl, 2 8)	SPRING STEEL
5	WINDING COVER PLATE	MS.
6	COIL SPACER	PPS
7	ROTOR	N/A
8	BEARING (7305) 8	N/A
9	DIAPHRAGM	NBR
10	CIRCLJP (871) X 5MM)	SS AISI 344
11	DIAPHRAGM COVER	SS AISI 304
12	OUTER PIPE	SS AISI 304
13	LOWER END BRACKET	ALUMINIUM
14	STAMPING	CR ELECTRIC
15	BEARING (62038i LS7	N/A
16	O-RING (8410 X cl,3 5	NBR
17	UPPER END BRACKET	CI FG-260
18	STUD M8 X 35	AISI SS-304



SUBMERSIBLE PUMPS

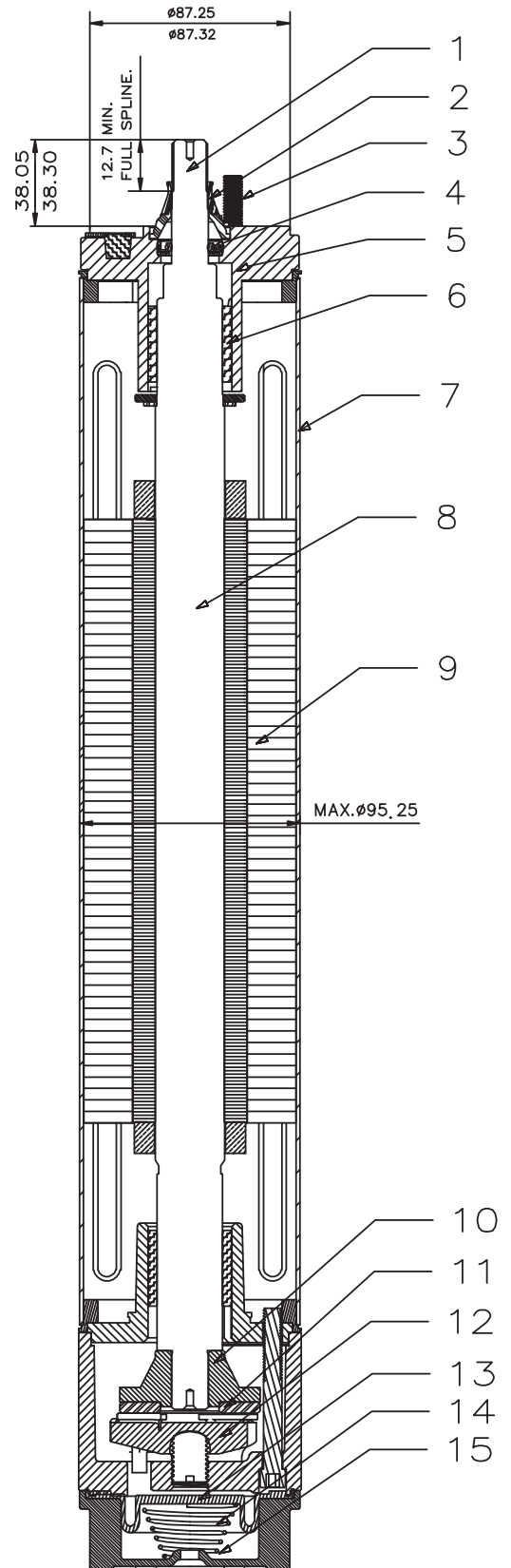
MATERIAL SPECIFICATION MCIP-100

SR.NO.	DESCRIPTION	MATERIAL
1	ROTOR SHAFT	AISI 5S-4-10
2	STUD	AI SI SS-304
3	GROM A TE.	NI TRILE RUBBER
4	UPPER HOUSING.	CI FG-260
5	CARBON BUSH.	CARBON .
6	SHAFT BUSH.	NYLON 30% GLASS FILLED
7	ROTOR	N/A
8	STATOR.	N/A
9	REVOLVING PLATE.	N/A
10	SEGEMENT.	SS AI SI 420
11	LEVELLING DISK.	HIGH GRADE CARBON
12	BOTTOM END BELL	CI PG- 260
13	DIAPHRAGM	NBR
14	END BELL COVER	AI SI SS-304



MATERIAL SPECIFICATION MCIP-101

SR.NO.	COMPONENT	MATERIAL
1	SHAFT	STAINLESS STEEL
2	SAND SLINGER	NBR
3	STUD	STAINLESS STEEL
4	OIL SEAL	STD
5	UPPERHOUSING	CI FG-260
6	BUSH	CARBON
7	S.S. MOTOR SHELL	STAINLESS STEEL
8	ROTOR	N/A
9	STATOR	N/A
10	THRUST DISK.	CI FG-260
11	SEGEMENT	STAINLESS STEEL
12	LEVELLING DISK.	SPRING STEEL
13	DIAPHRAGM	NBR
14	DIAPHRAGMSPRING	SPRING STEEL
15	DIAPHRAGMCOVER	STAINLESS STEEL

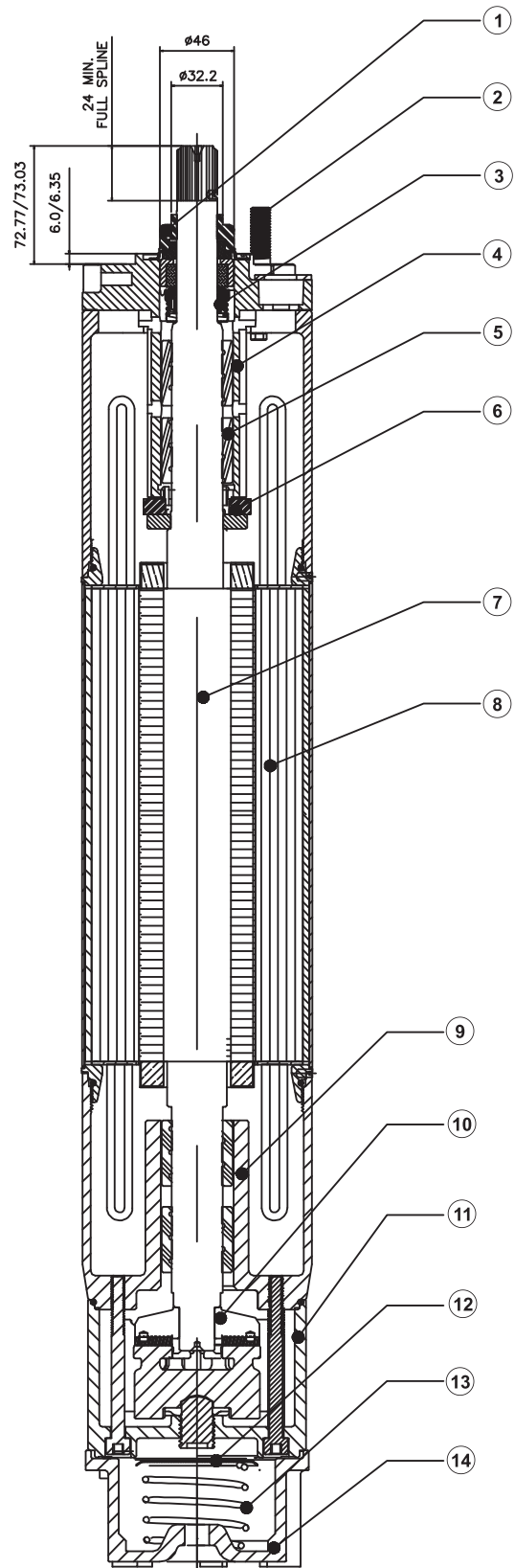


SUBMERSIBLE PUMPS

MATERIAL SPECIFICATION MTSF - 150

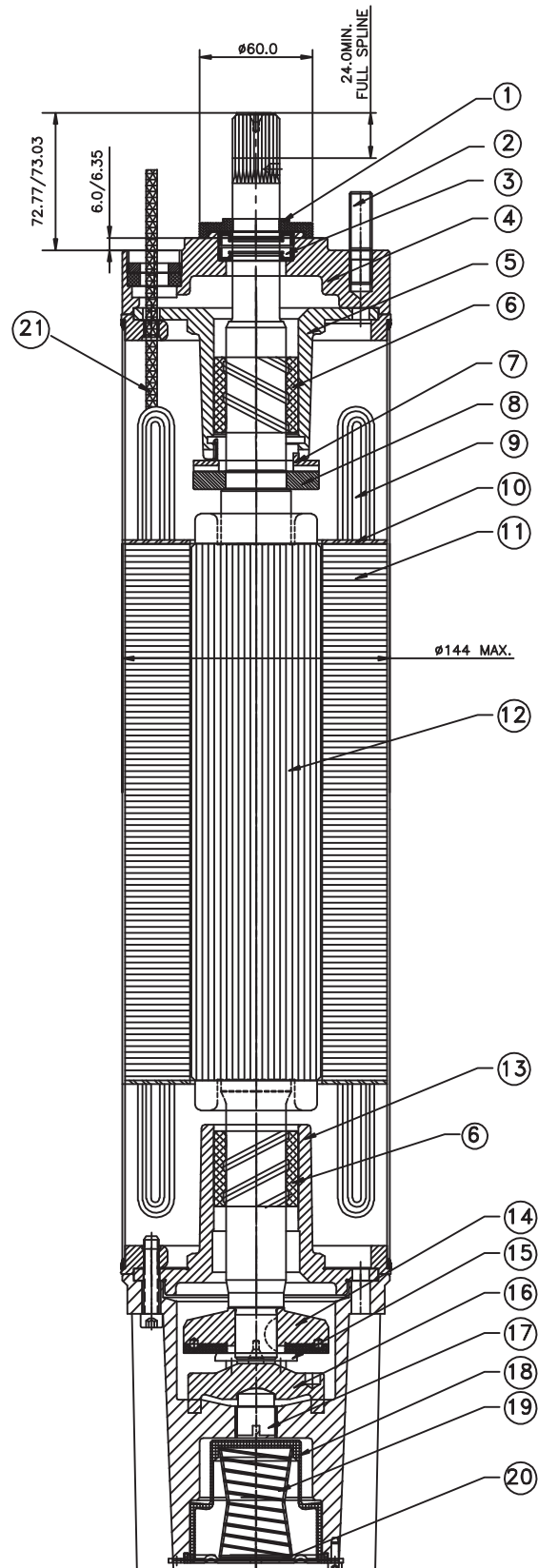
SR.NO.	DESCRIPTION	MATERIAL
1	SAND SLINGER	NEOPRINE
2	STUD	AISI 55304
3	MECH SEAL	N/A
4	END BELL UPPER HOUSING	CI PG-260
5	BUSH	CARBON
6	UP THRUST BEARING	NORYL. (GLASS FILLED)
7	ROTOR SHAFT	CI FG-260
8	STATOR SUB ASSLY	N/A
9	END BELL LOWER	CI FG.260
10	REVOLVING PLATE ASSLY.	N/A
11	TH RUST BEARING HOUSING	CI FG-260
12	DDIAPH RAGM	EPDM
13	DIAPHRAGM SPRING	SPRING STEEL
14	MOOR BASE	CI FG-260

SECTIONAL VIEW MTSF 150



MATERIAL SPECIFICATION SML-150

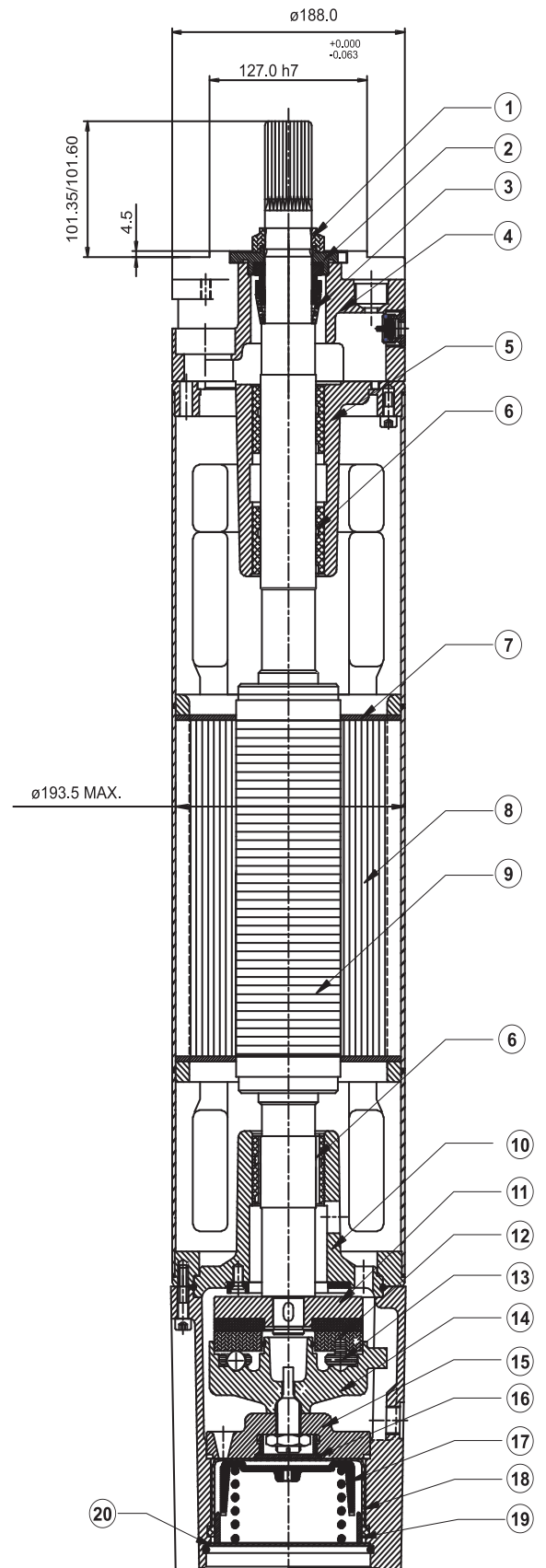
SR.NO.	COMPONENT	MATERIAL
1	SAND SLINGER	NITRILE RUBBER
2	STUD	SS AISI 304
3	SEAL	STD
4	UPPFR HOUSING	CI FG-760
5	END BELL UPPER	CI FG 260
6	BUSH	CARBON
7	UP I I IRUS I BEARING	NYLONE
8	IHRUST PLAIE	CI I-G-260
9	WINDING WIRE	STD
10	END LAMINA I ON	MS
11	STATOR	N/A
12	ROTOR	N/A
13	END BELL LOWER	CI FG 260
14	REVOLVING PLATE ASSLY.	N/A
15	SEGMENT	AISI SS-304
16	1 I IRUS I BEARING PLA I E	CI FG-260
17	ADJUSTING STUD	DUPLEX
18	DIAPHRAGM	NITRILE RUBBER
19	DIAPI IRAGM SPRING	SPRING S I EEL
20	MOTOR BASE COVER	SS AISI 304
21	CABLE	STD



SUBMERSIBLE PUMPS

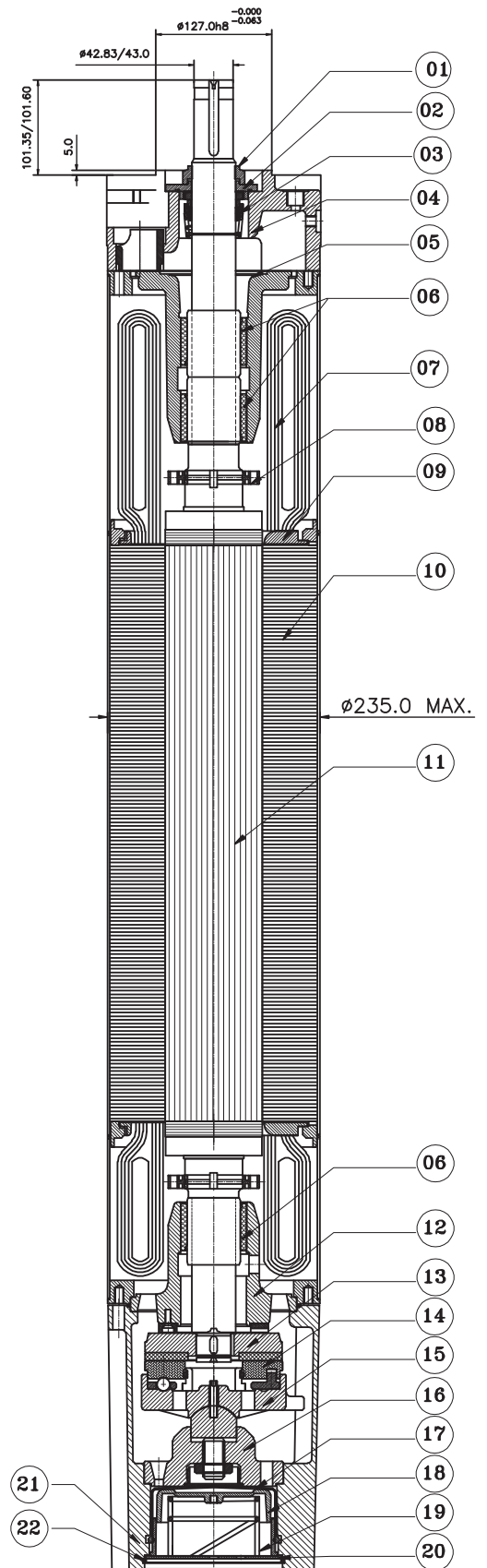
MATERIAL SPECIFICATION MTSF 200

SR.NO.	DESCRIPTION	MATERIAL
1	SAND SLINGER	NITRILE RUBBER
2	STUD	SS AISI 304
3	SEAL	STD
4	UPPER HOUSING	CI FG-260
5	END BELL UPPER	CI FG-260
6	BUSH	CARBON
7	UPTHRUST BEARING	NYLON E
8	THRUST PLATE	CI FG-260
9	WINDING WIRE	STD
10	END LAMINATION	MS
11	STATOR	N/A
12	ROTOR	N/A
13	END BELL LOWER	CI FG-260
14	REVOLVING PLATE ASSLY.	N/A
15	SEGMENT	AISI SS-304
16	THRUST BEARING PLATE	CI FG-260
17	ADJUSTING STUD	DUPLEX
18	DIAPHRAGM	NITRILE RUBBER
19	DIAPHRAGM SPRING	SPRING STEEL
20	MOTOR BASE COVER	SS AISI 304
21	CABLE	STD



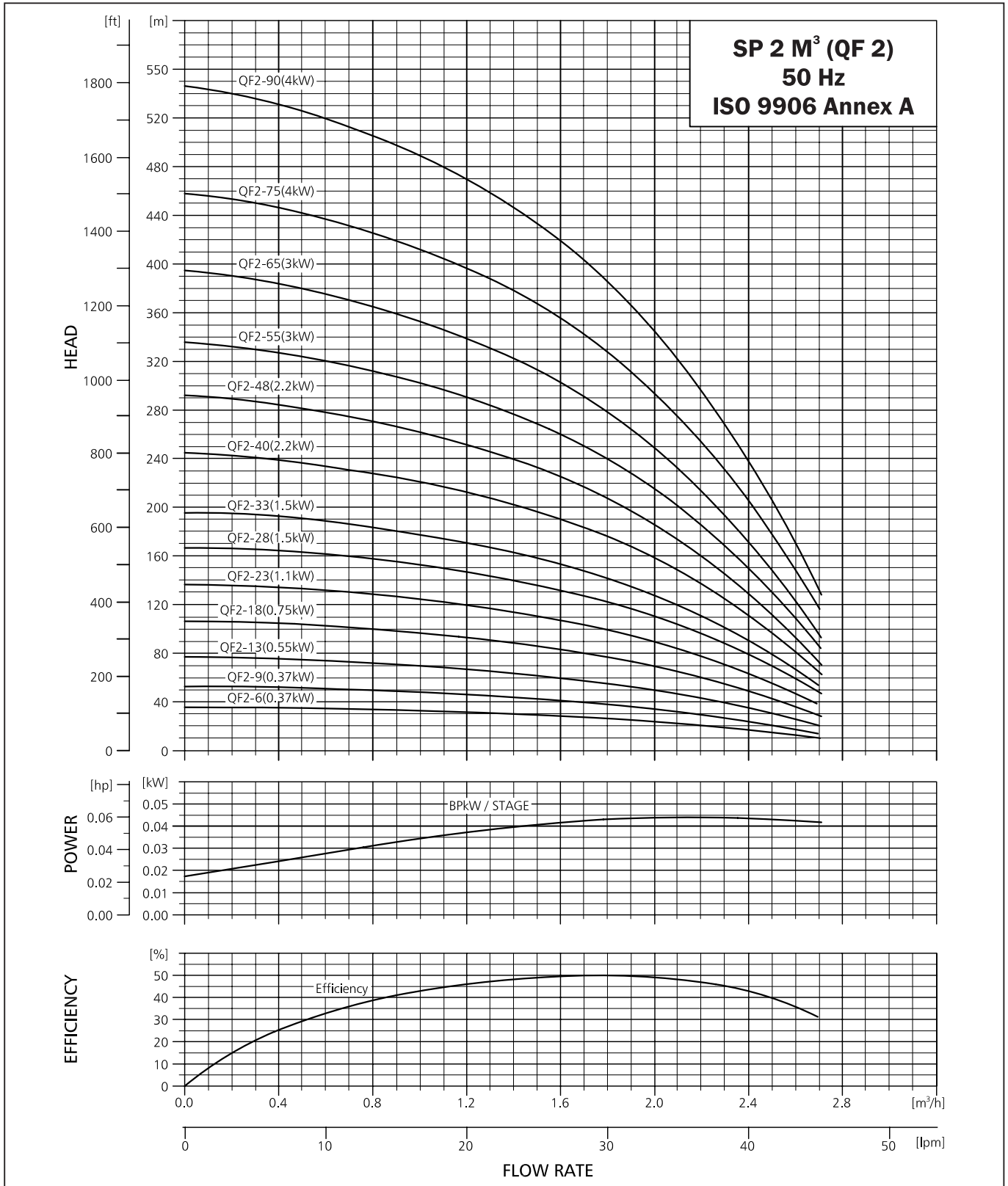
MATERIAL SPECIFICATION MTSF 10

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



PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF2



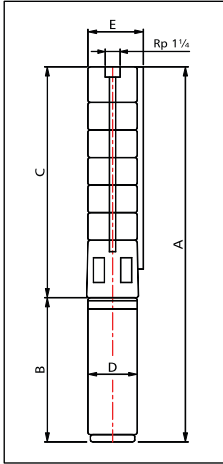
TECHNICAL DATA & PERFORMANCE TABLE QF2



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DIMENSIONS & WEIGHTS

SUBMERSIBLE PUMPS QF2



E = Max. Dia of Pump inclusive of cable guard & motor.

QF-2-75 and QF-2-90 are mounted in sleeve for R1 1/4" connection and with max. diameter 108 mm

TECHNICAL DATA QF2												
PUMP TYPE	MOTOR		C	DIMENSIONS (mm)						NET WEIGHT (kg)		
	TYPE *	POWER (KW)		B		A		D	E	PUMP	MOTOR	
				1X230V	3X220V 3X400V	1X230V	3X220V 3X400V				1X230V	3X220V 3X400V
QF2 - 6	RO 100	0.37	312	352	302	664	614	95	101	3	8	8
QF2 - 9	RO 100	0.37	375	352	302	727	677	95	101	4	8	8
QF2 - 13	RO 100	0.55	459	367	317	826	776	95	101	5	9	9
QF2 -18	RO 100	0.75	564	382	352	946	916	95	101	6	10	9
QF2 - 23	RO 100	1.1	669	422	382	1091	1051	95	101	7	12	10
QF2 - 28	RO 100	1.5	774	478	422	1252	1196	95	101	9	13	12
QF2 - 33	RO 100	1.5	879	478	422	1357	1301	95	101	10	13	12
QF2 - 40	RO 101	2.2	1091	585	480	1676	1571	95	101	11	18	16
QF2 - 48	RO 101	2.2	1259	585	480	1844	1739	95	101	13	18	16
QF2 - 55	RO 101	3.0	1406	-	547	-	1953	95	101	15	-	19
QF2 - 65	RO 101	3.0	1616	-	547	-	2163	95	101	17	-	19
QF2 - 75	RO 101	4.0	1826	-	623	-	2449	95	101	20	-	22
QF2 - 90	RO 101	4.0	2141	-	623	-	2764	95	101	23	-	22

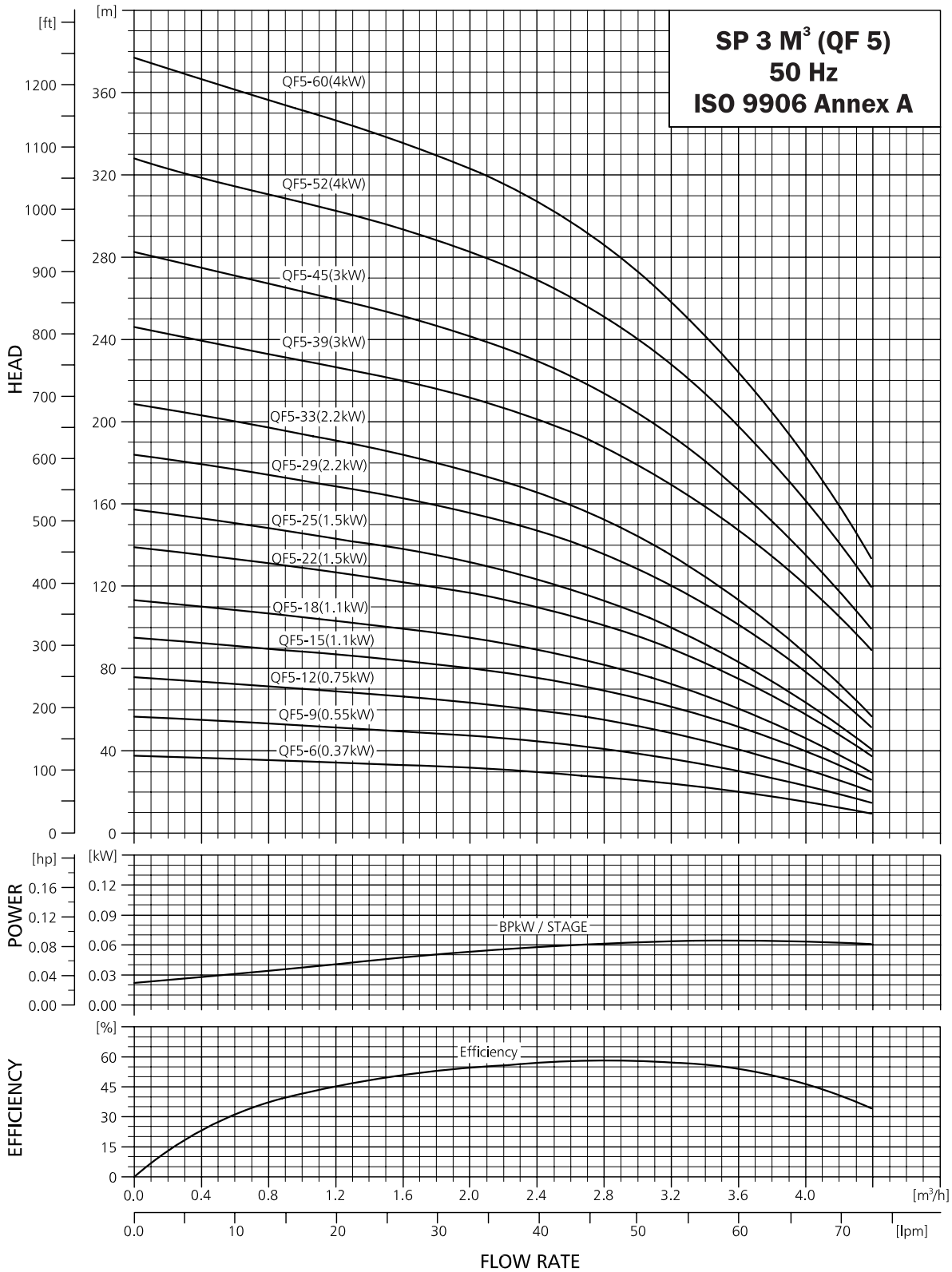
* Motor type may change as per requirement

PERFORMANCE TABLE QF2												
QF-2					DISCHARGE (Q)							
					m ³ /h	0	1	1.4	1.8	2	2.4	2.8
					l/min.	0	16.7	23.4	30.1	33.4	40.1	46.8
MODEL	CONNECTION	MOTOR RATING		1 ~	3 ~	TOTAL HEAD IN [m]						
		[KW]	[HP]	[A]	[A]							
QF 2A - 6	Rp 1 1/4	0.37	0.5	2.9	1.4	36	33	30	26	24	17	13
QF 2A - 9		0.37	0.5	2.9	1.4	53	48	44	38	34	24	17
QF 2A - 13		0.55	0.75	4.0	2.2	77	70	64	55	50	35	26
QF 2A - 18		0.75	1	5.5	2.3	107	97	89	77	69	49	36
QF 2A - 23		1.1	1.5	8.2	3.4	137	124	114	99	90	64	47
QF 2A - 28		1.5	2.0	10.2	4.2	167	152	140	122	110	79	59
QF 2A - 33		1.5	2.0	10.2	4.2	196	178	163	142	128	90	66
QF 2A - 40		2.2	3.0	14.0	5.5	245	221	203	176	158	111	81
QF 2A - 48		2.2	3.0	14.0	5.5	292	262	240	207	186	129	93
QF 2A - 55		3.0	4.0	-	7.9	336	302	277	240	215	150	109

PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF5

SP 3 M³ (QF 5)
50 Hz
ISO 9906 Annex A



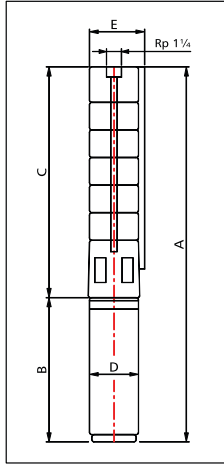
TECHNICAL DATA & PERFORMANCE TABLE QF5



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DIMENSIONS & WEIGHTS

SUBMERSIBLE PUMPS QF5



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

TECHNICAL DATA QF5

PUMP TYPE	MOTOR		DIMENSIONS (mm)							NET WEIGHT (KG)		
	TYPE *	POWER (KW)	C	B		A		D	E	PUMP	MOTOR	
				1X230V	3X220V 3X400V	1X230V	3X220V 3X400V				1X230	3X220V 3X400V
QF 5 - 6	RO 100	0.37	312	352	302	664	614	95	101	3	8	8
QF 5 - 9	RO 100	0.55	375	367	317	742	692	95	101	4	9	9
QF 5 - 12	RO 100	0.75	438	382	352	820	790	95	101	5	10	9
QF 5 - 15	RO 100	1.1	501	422	382	923	883	95	101	5	12	10
QF 5 - 18	RO 100	1.1	564	422	382	986	946	95	101	6	12	10
QF 5 - 22	RO 100	1.5	648	478	422	1126	1070	95	101	7	14	12
QF 5 - 25	RO 100	1.5	711	478	422	1189	1133	95	101	8	14	12
QF 5 - 22	RO 101	1.5	648	517	414	1165	1062	95	101	7	14	12
QF 5 - 25	RO 101	1.5	711	517	414	1228	1125	95	101	8	14	12
QF 5 - 29	RO 101	2.2	795	585	480	1380	1275	95	101	9	20	16
QF 5 - 33	RO 101	2.2	879	585	480	1464	1359	95	101	10	20	16
QF 5 - 39	RO 101	3.0	1070	-	547	-	1617	95	101	11	-	19
QF 5 - 45	RO 101	3.0	1196	-	547	-	1743	95	101	13	-	19
QF 5 - 52	RO 101	4.0	1343	-	623	-	1966	95	101	14	-	22
QF 5 - 60	RO 101	4.0	1511	-	623	-	2134	95	101	16	-	22

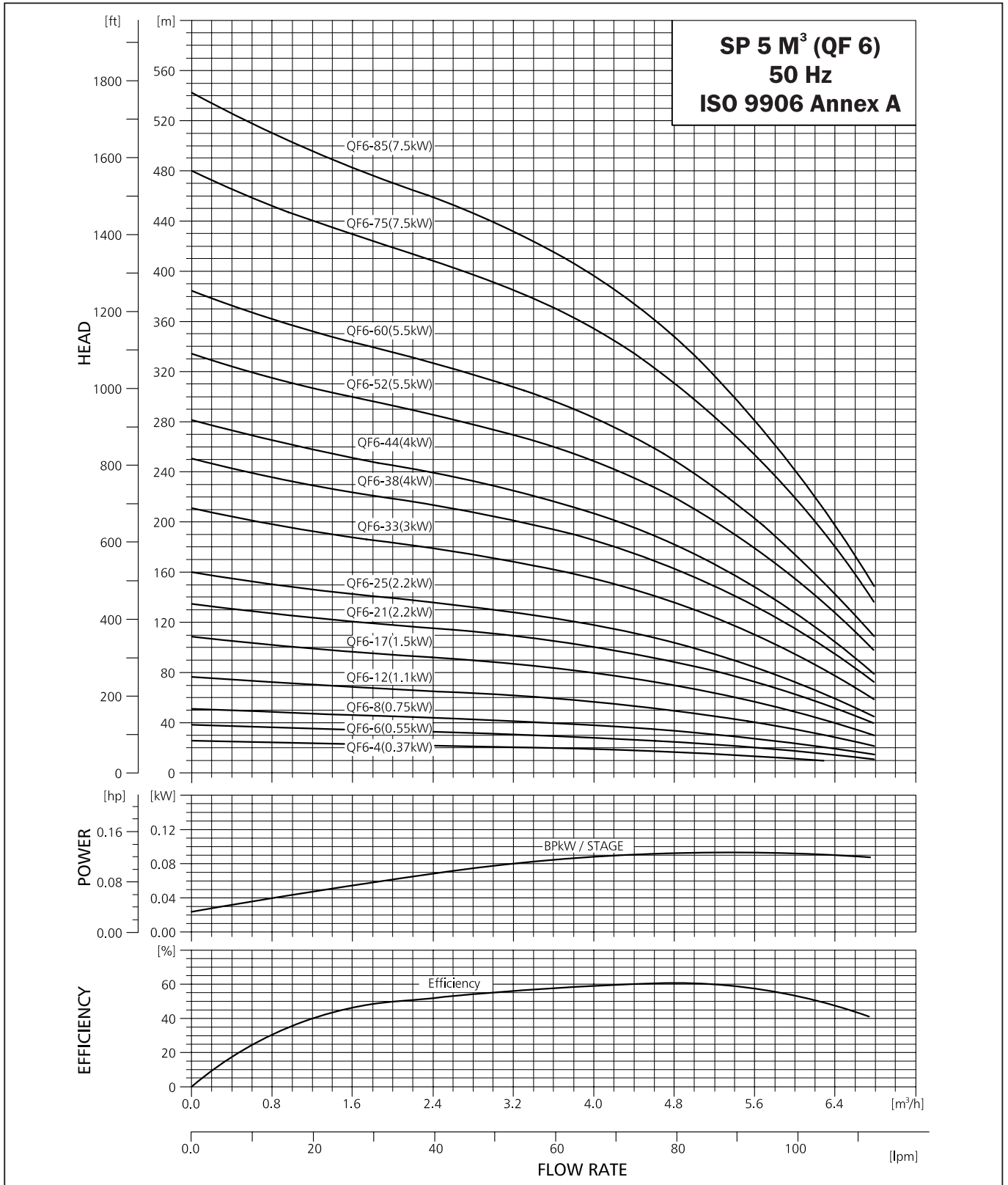
* Motor type may change as per requirement

PERFORMANCE TABLE QF5

QF-5				DISCHARGE (Q)											
				m ³ /h	0	1	1.4	1.8	2	2.4	2.8	3.4	4	4.4	
				l/min.	0	16.7	23.4	30.1	33.4	40.1	46.8	56.8	66.8	73.5	
MODEL	CONNECTION	MOTOR RATING		1 ~		TOTAL HEAD IN [m]									
		[KW]	[HP]	[A]	[A]										
QF 5A - 6	Rp 1/4	0.37	0.5	2.9	1.4	38	35	34	32	31	30	27	22	15	12
QF 5A - 9		0.55	0.75	4	2.2	57	54	51	49	47	45	41	33	23	19
QF 5A - 12		0.75	1	5.5	2.3	76	70	68	65	64	60	55	45	31	26
QF 5A - 15		1.1	1.5	8.2	3.4	95	87	85	82	80	76	70	57	40	33
QF 5A - 18		1.1	1.5	8.2	3.4	113	105	101	97	95	89	82	67	46	38
QF 5A - 22		1.5	2	10.2	4.2	139	129	125	120	117	110	101	83	57	47
QF 5A - 25		1.5	2	10.2	4.2	157	145	140	135	131	124	113	92	63	52
QF 5A - 29		2.2	3	14	5.5	184	171	166	159	156	147	136	111	78	65
QF 5A - 33		2.2	3	14	5.5	209	194	187	180	176	166	152	125	87	72
QF 5A - 39		3	4	-	7.9	246	230	223	216	212	201	188	160	120	105
QF 5A - 45		3	4	-	7.9	283	264	255	247	242	229	214	181	135	118
QF 5A - 52		4	5.5	-	9.6	328	308	298	289	283	269	251	214	161	141
QF 5A - 60		4	5.5	-	9.6	377	350	341	330	323	307	286	242	182	158

PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF6



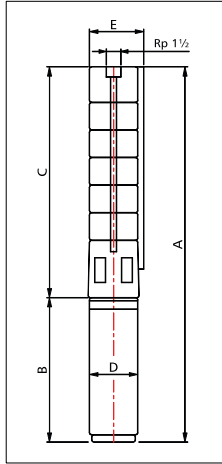
TECHNICAL DATA & PERFORMANCE TABLE QF6



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DIMENSIONS & WEIGHTS

SUBMERSIBLE PUMPS QF6



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

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

TECHNICAL DATA QF6												
PUMP TYPE	MOTOR		DIMENSIONS (mm)							NET WEIGHT (KG)		
	TYPE *	POWER (KW)	C	B		A		D	E	PUMP	MOTOR	
				1X230V	3X220V 3X400V	1X230V	3X220V 3X400V				1X230	3X220V 3X400V
QF 6 - 4	RO 100	0.37	270	352	302	622	572	95	101	3	8	8
QF 6 - 6	RO 100	0.55	312	367	317	679	629	95	101	3	9	9
QF 6 - 8	RO 100	0.75	354	382	352	736	706	95	101	4	10	10
QF 6 - 12	RO 100	1.1	438	422	382	860	820	95	101	5	12	12
QF 6 - 17	RO 100	1.5	543	478	422	1021	965	95	101	6	14	13
QF 6 - 21	RO 101	2.2	627	585	480	1212	1107	95	101	7	20	16
QF 6 - 25	RO 101	2.2	711	585	480	1296	1191	95	101	8	20	16
QF 6 - 33	RO 101	3.0	879	-	547	-	1426	95	101	10	-	19
QF 6 - 38	RO 101	4.0	1049	-	623	-	1672	95	101	11	-	22
QF 6 - 44	RO 101	4.0	1175	-	623	-	1798	95	101	12	-	22
QF 6 - 52	RO 101	5.5	1343	-	737	-	2080	95	101	14	-	27
QF 6 - 60	RO 101	5.5	1511	-	737	-	2248	95	101	16	-	27
QF 6 - 75	RO 101	7.5	1826	-	814	-	2640	95	101	20	-	31
QF 6 - 85	RO 101	7.5	2036	-	814	-	2850	95	101	22	-	31
QF 6 - 52	MTSF 150	5.5	1418	-	694	-	2112	142	142	14	-	48
QF 6 - 60	MTSF 150	5.5	1586	-	694	-	2280	142	142	16	-	48
QF 6 - 75	MTSF 150	7.5	1901	-	714	-	2615	142	142	20	-	50
QF 6 - 85	MTSF 150	7.5	2111	-	714	-	2825	142	142	22	-	50

* Motor type may change as per requirement

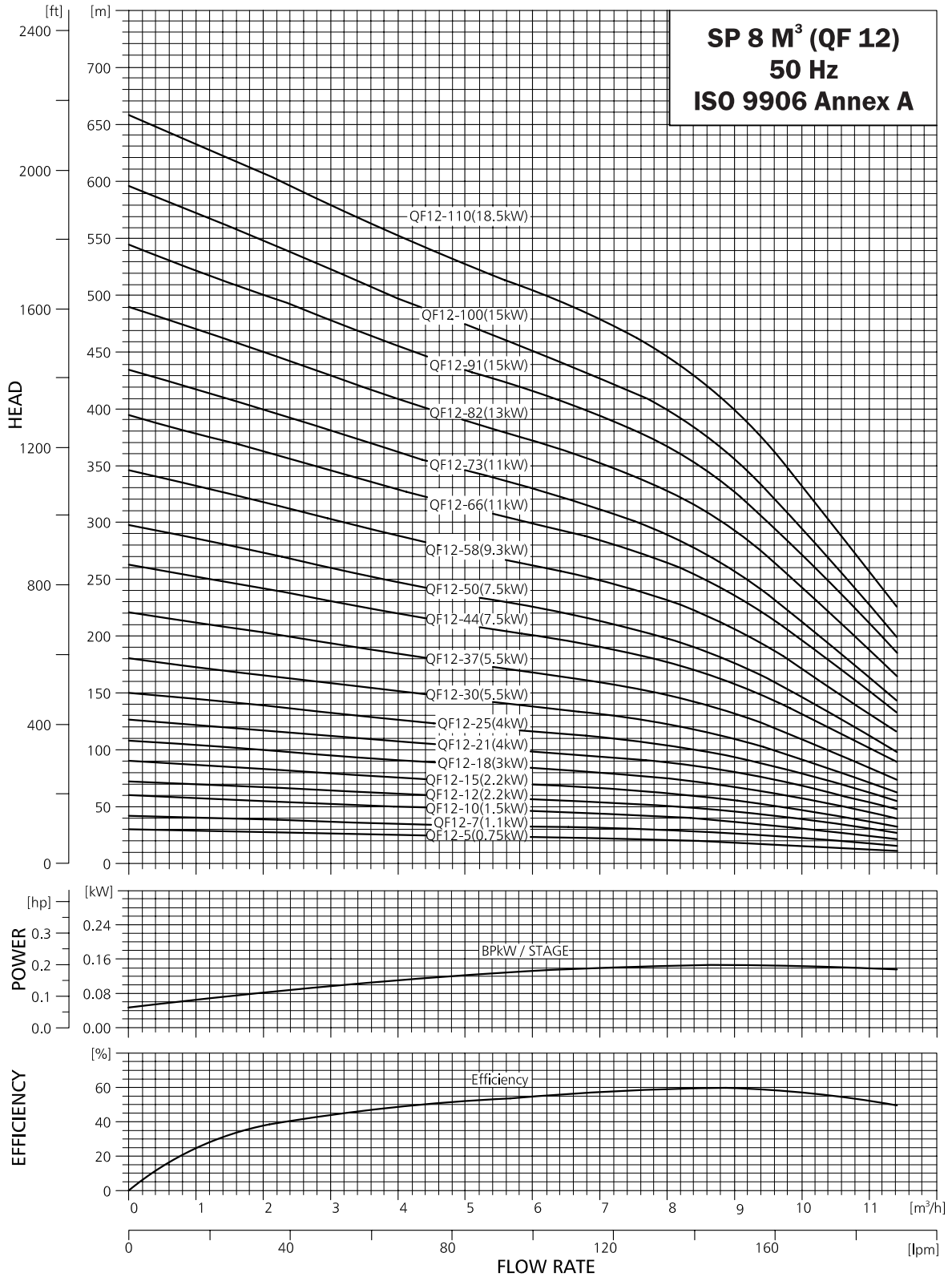
PERFORMANCE TABLE QF6

QF-6		DISCHARGE (Q)																			
		m³/h	0	1	1.4	1.8	2	2.4	2.8	3.4	4	4.4	5	6	6.7						
		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	111.6						
MODEL	CONNECTION	MOTOR RATING		1 ~		TOTAL HEAD IN [m]															
		[KW]	[HP]	[A]	[A]	26	24	23	23	22	22	21	20	19	18	16	11	9			
QF 6A - 4	Rp 1½	0.37	0.5	2.9	1.4	26	24	23	23	22	22	21	20	19	18	16	11	9			
QF 6A - 6		0.55	0.75	4	2.2	38	36	35	34	33	33	32	30	28	26	24	17	11			
QF 6A - 8		0.75	1	5.5	2.3	51	48	47	46	45	44	43	40	38	36	32	23	15			
QF 6A - 12		1.1	1.5	8.2	3.4	77	72	70	68	67	65	63	60	56	54	47	35	23			
QF 6A - 17		1.5	2	10.2	4.2	109	100	97	96	94	92	90	85	80	75	67	49	32			
QF 6A - 21		2.2	3	14	5.5	135	126	122	120	118	115	112	106	100	95	85	63	42			
QF 6A - 25		2.2	3	14	5.5	160	150	145	141	139	135	131	125	118	112	99	72	48			
QF 6A - 33		3	4	-	7.9	211	195	190	186	183	179	173	166	155	148	130	95	62			
QF 6A - 38		4	5.5	-	9.6	250	233	229	221	219	215	209	199	186	177	157	115	76			
QF 6A - 44		4	5.5	-	9.6	281	260	257	250	245	240	232	220	207	195	174	127	84			
QF 6A - 52		5.5	7.5	-	13.6	334	310	302	296	293	285	280	267	249	238	210	155	110			
QF 6A - 60		5.5	7.5	-	13.6	384	360	345	339	335	325	319	303	283	269	238	175	130			

PERFORMANCE CURVE

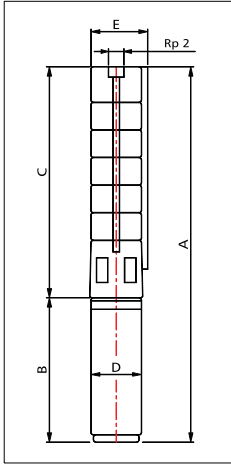
SUBMERSIBLE PUMPS QF12

SP 8 M³ (QF 12)
50 Hz
ISO 9906 Annex A



DIMENSIONS & WEIGHTS

SUBMERSIBLE PUMPS QF12



E = Max. Dia of Pump inclusive of cable guard & motor.

QF12-58 and QF 12-110 are mounted in sleeve for R 2" connection

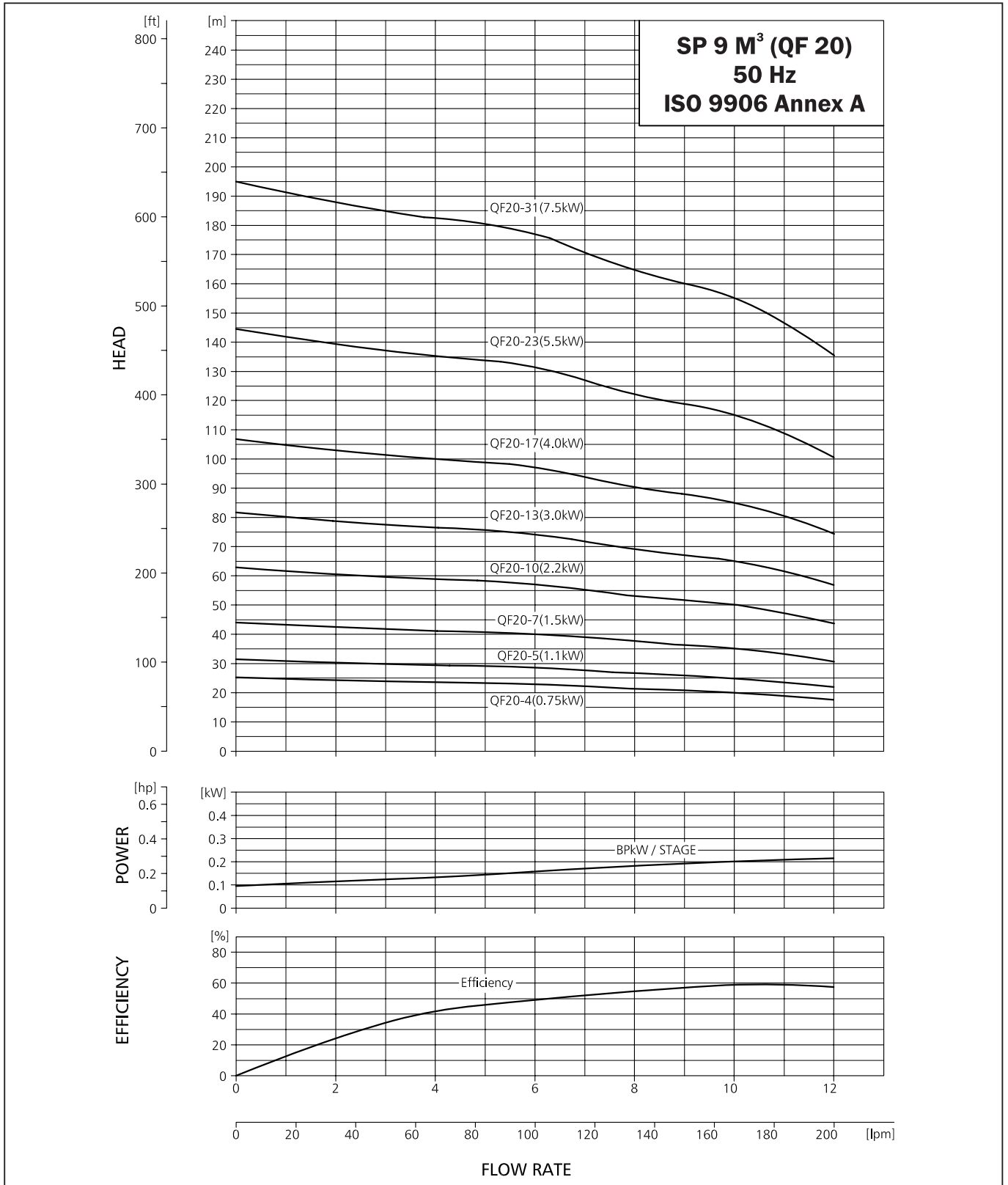
TECHNICAL DATA QF12												
PUMP TYPE	MOTOR		DIMENSIONS (mm)							NET WEIGHT (kg)		
	TYPE	POWER (KW)	C	B		A		D	E	PUMP	MOTOR	
				1X230V	3X220V 3X400V	1X230V	3X220V 3X400V				1X230	3X220V 3X400V
QF 12 - 5	RO 100	0.75	425	382	352	807	777	95	101	4	10	9
QF 12 - 7	RO 100	1.1	509	422	382	931	891	95	101	5	12	10
QF 12 - 10	RO 100	1.5	635	478	422	1113	1057	95	101	6	13	12
QF 12 - 12	RO 101	2.2	719	585	480	1304	1199	95	101	7	18	16
QF 12 - 15	RO 101	2.2	845	585	480	1430	1325	95	101	9	18	16
QF 12 - 18	RO 101	3.0	971	-	547	-	1518	95	101	10	-	19
QF 12 - 21	RO 101	4.0	1097	-	623	-	1720	95	101	11	-	22
QF 12 - 25	RO 101	4.0	1265	-	623	-	1888	95	101	13	-	22
QF 12 - 30	RO 101	5.5	1475	-	737	-	2212	95	101	15	-	27
QF 12 - 37	RO 101	5.5	1769	-	737	-	2506	95	101	18	-	27
QF 12 - 44	RO 101	7.5	2063	-	814	-	2877	95	101	21	-	31
QF 12 - 50	RO 101	7.5	2315	-	814	-	3129	95	101	24	-	31
QF 12 - 30	MTSF 150	5.5	1550	-	694	-	2244	138	143	15	-	48
QF 12 - 37	MTSF 150	5.5	1844	-	694	-	2538	138	143	18	-	48
QF 12 - 44	MTSF 150	7.5	2138	-	714	-	2852	138	143	21	-	50
QF 12 - 50	MTSF 150	7.5	2390	-	714	-	3104	138	143	24	-	50
QF 12 - 58	MTSF 150	9.3	2726	-	744	-	3470	138	143	27	-	53
QF 12 - 66	MTSF 150	11.0	3062	-	774	-	3836	138	143	31	-	53
QF 12 - 73	MTSF 150	11.0	3356	-	774	-	4130	138	143	34	-	56
QF 12 - 82	MTSF 150	13.0	3734	-	824	-	4558	138	143	38	-	61
QF 12 - 91	MTSF 150	15.0	4112	-	869	-	4981	138	143	42	-	66
QF 12 - 100	MTSF 150	15.0	4490	-	869	-	5359	138	143	45	-	66
QF 12 - 110	MTSF 150	18.5	4910	-	914	-	5824	138	143	50	-	70

* Motor type may change as per requirement

PERFORMANCE TABLE QF12														
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	133.6	150	167	183.7	
MODEL	CONNECTION	MOTOR RATING		1 ~	3 ~	TOTAL HEAD IN [m]								
		[KW]	[HP]	[A]	[A]	30	29	27	25	23	21	19	16	12
QF 12A - 5	Rp 2	0.75	1	5.5	2.3	30	29	27	25	23	21	19	16	12
QF 12A - 7		1.1	1.5	8.2	3.4	42	40	38	35	32	29	26	22	17
QF 12A - 10		1.5	2	10.2	4.2	60	57	55	50	46	41	37	32	24
QF 12A - 12		2.2	3	14	5.5	72	68	66	61	57	51	46	39	31
QF 12A - 15		2.2	3	14	5.5	90	85	82	76	70	62	56	47	37
QF 12A - 18		3	4	-	7.9	108	102	99	91	84	75	67	57	45
QF 12A - 21		4	5.5	-	9.6	127	120	117	107	99	89	80	68	53
QF 12A - 25		4	5.5	-	9.6	150	142	139	126	116	104	94	79	62
QF 12A - 30		5.5	7.5	-	13.6	180	170	165	151	138	123	110	92	71
QF 12A - 37		5.5	7.5	-	13.6	221	210	202	184	168	148	132	110	84

PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF20



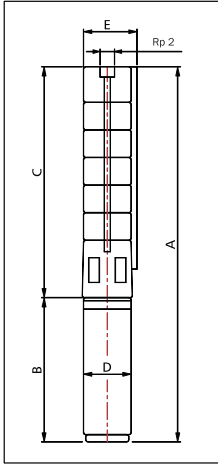
TECHNICAL DATA & PERFORMANCE TABLE QF20



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DIMENSIONS & WEIGHTS

SUBMERSIBLE PUMPS QF20



E = Max. Dia of Pump inclusive of cable guard & motor.

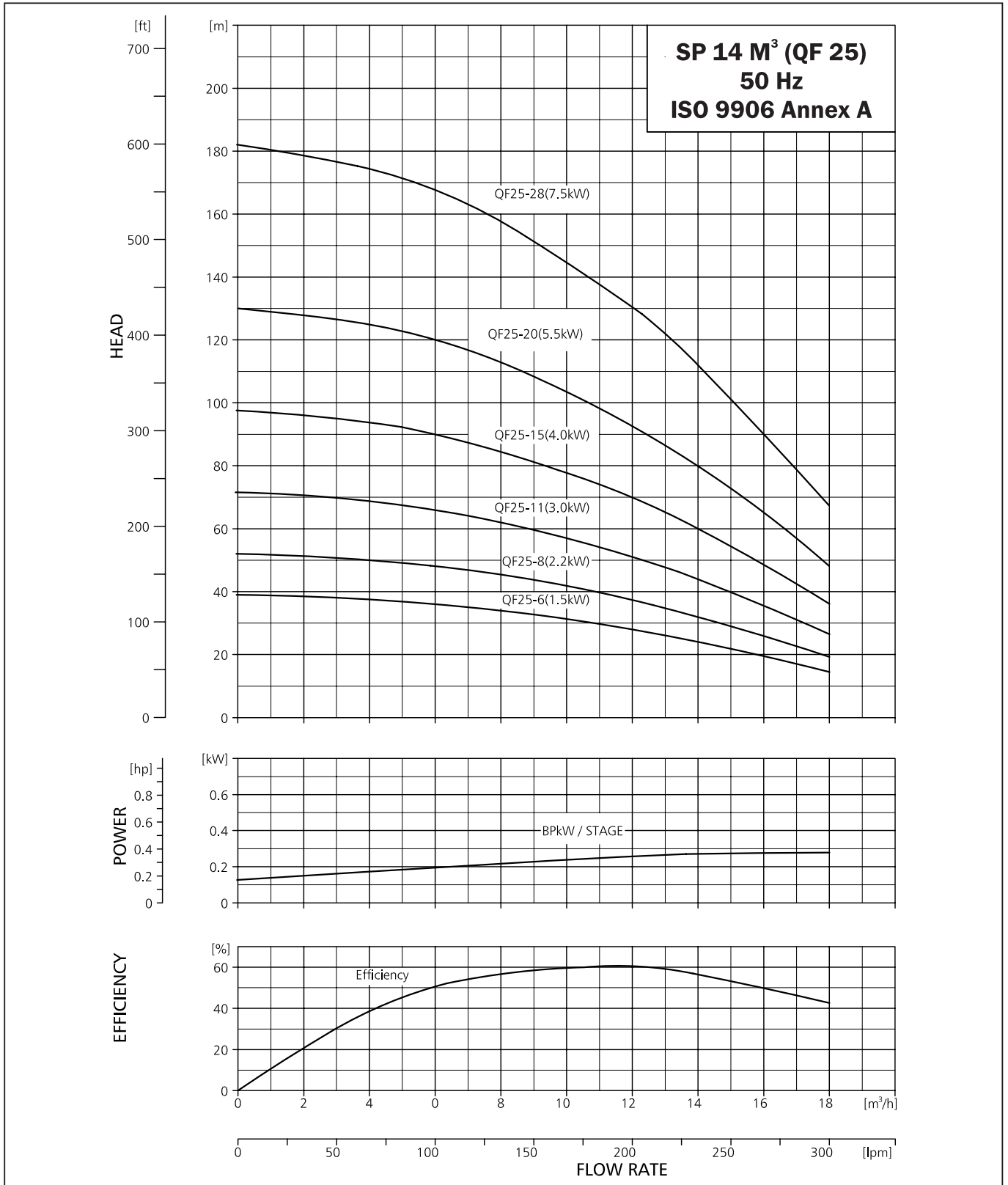
TECHNICAL DATA QF20													
PUMP TYPE	MOTOR		C	DIMENSIONS (mm)						NET WEIGHT (KG)			
	TYPE *	POWER (KW)		B		A		D	E	PUMP	MOTOR		
				1X230V	3X220V 3X400V	1X230V	3X220V 3X400V				1X230	3X220V 3X400V	
QF 20 - 4	RO 100	1.1	445	382	352	827	797	95	101	6	10	9	
QF 20 - 5	RO 100	1.1	510	424	382	934	892	95	101	6	12	10	
QF 20 - 7	RO 100	1.5	640	478	-	1118	-	95	101	7	14	-	
QF 20 - 7	RO 101	1.5	640	-	424	-	1064	95	101	7	-	12	
QF 20 - 10	RO 101	2.2	835	588	485	1423	1320	95	101	8	21	16	
QF 20 - 13	RO 101	3.0	1030	-	541	-	1571	95	101	11	-	19	
QF 20 - 17	RO 101	4.0	1290	-	624	-	1914	95	101	14	-	22	
QF 20 - 23	RO 101	5.5	1680	-	743	-	2423	95	101	19	-	27	
QF 20 - 31	RO 101	7.5	2200	-	815	-	3015	95	101	24	-	31	
QF 20 - 23	MTSF 150	5.5	1750	-	694	-	2444	138	143	19	-	48	
QF 20 - 31	MTSF 150	7.5	2270	-	714	-	2984	138	143	24	-	50	

* Motor type may change as per requirement

PERFORMANCE TABLE QF20										
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	CONNECTION	MOTOR RATING		TOTAL HEAD IN [m]						
		[KW]	[HP]							
QF 20 - 4	Rp 2	0.75	1	27	26	25	24	22	20	18
QF 20 - 5		1.1	1.5	34	33	31	30	28	25	23
QF 20 - 7		1.5	2	47	46	44	42	39	35	32
QF 20 - 10		2.2	3	68	65	63	60	55	50	45
QF 20 - 13		3	4	88	85	81	78	72	65	59
QF 20 - 17		4	5.5	115	111	106	102	94	85	77
QF 20 - 23		5.5	7.5	155	150	144	138	127	115	104
QF 20 - 31		7.5	10	209	202	194	186	171	155	140

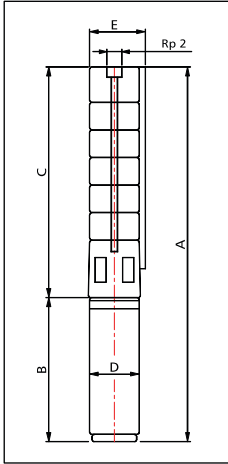
PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF25



DIMENSIONS & WEIGHTS

SUBMERSIBLE PUMPS QF25



E = Max. Dia of Pump inclusive of cable guard & motor.

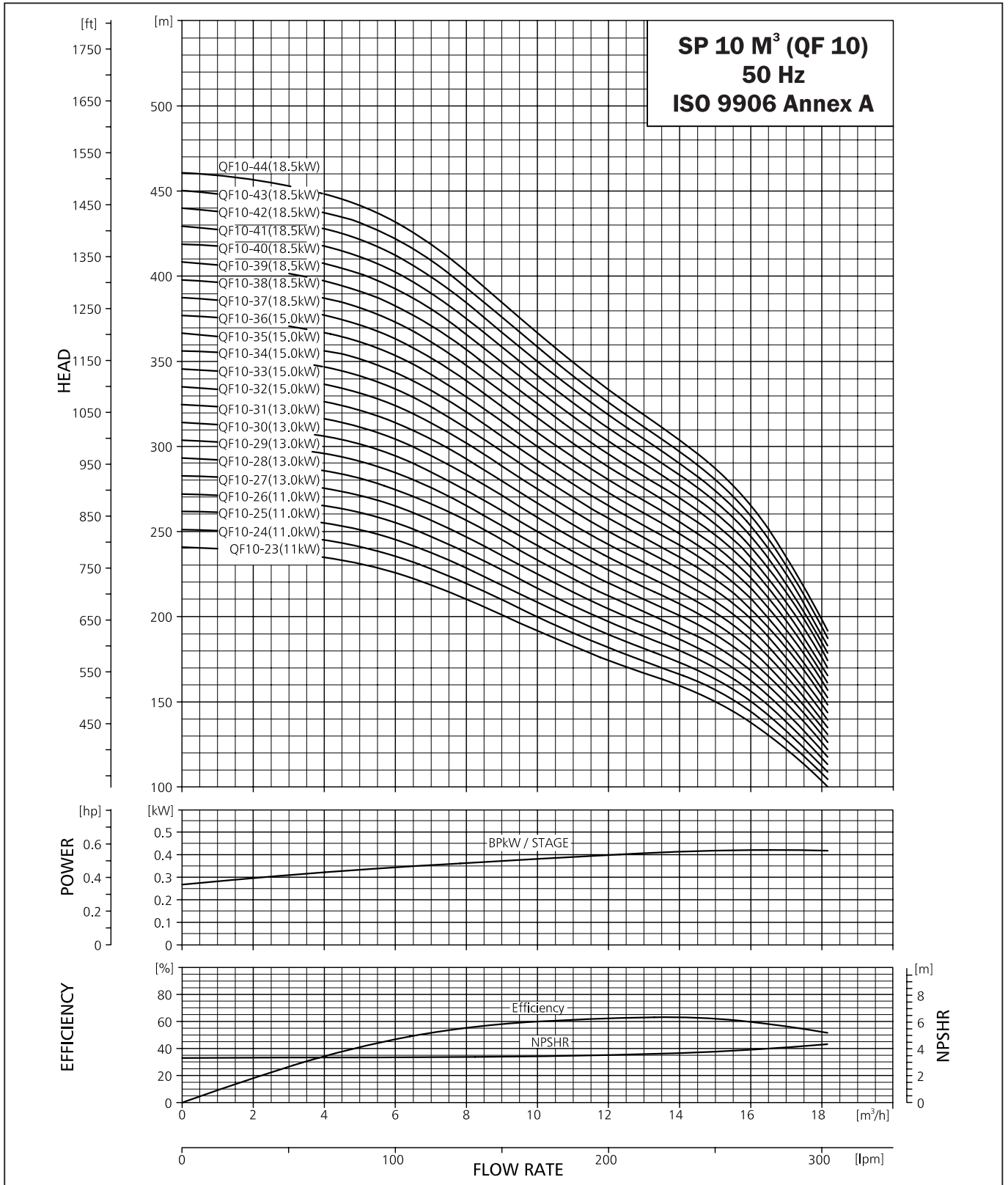
TECHNICAL DATA QF25												
PUMP TYPE	MOTOR		C	DIMENSIONS (mm)						NET WEIGHT (kg)		
	TYPE*	POWER (KW)		B		A		D	E	PUMP WEIGHT (kg)	MOTOR	
				1X230V	3X220V 3X400V	1X230V	3X220V 3X400V				1X230	3X220V 3X400V
QF 25 - 6	RO 100	1.5	575	478	422	1053	997	95	101	3	14	12
QF 25 - 6	RO 101	1.5	575	-	414	-	989	95	101	3	-	12
QF 25 - 8	RO 101	2.2	705	585	480	1290	1185	95	101	4	21	16
QF 25 - 11	RO 101	3.0	900	-	547	-	1447	95	101	4	-	19
QF 25 - 15	RO 101	4.0	1160	-	623	-	1783	95	101	5	-	22
QF 25 - 20	RO 101	5.5	1485	-	737	-	2222	95	101	7	-	27
QF 25 - 28	RO 101	7.5	2005	-	814	-	2819	95	101	9	-	32
QF 25 - 20	MTSF 150	5.5	1555	-	694	-	2249	142	143	7	-	48
QF 25 - 28	MTSF 150	7.5	2075	-	714	-	2789	142	143	9	-	50

* Motor type may change as per requirement

PERFORMANCE TABLE QF25										
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	CONNECTION	MOTOR RATING		TOTAL HEAD IN [m]						
		[KW]	[HP]							
QF 25 - 6	Rp 2"	1.5	2	39	36	32	29	28	24	14
QF 25 - 8		2.2	3	52	48	42	39	37	32	19
QF 25 - 11		3	4	72	66	58	54	51	44	26
QF 25 - 15		4	5.5	98	90	80	74	70	60	36
QF 25 - 20		5.5	7.5	130	120	106	98	93	80	48
QF 25 - 28		7.5	10	182	168	148	137	131	112	67

PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF10

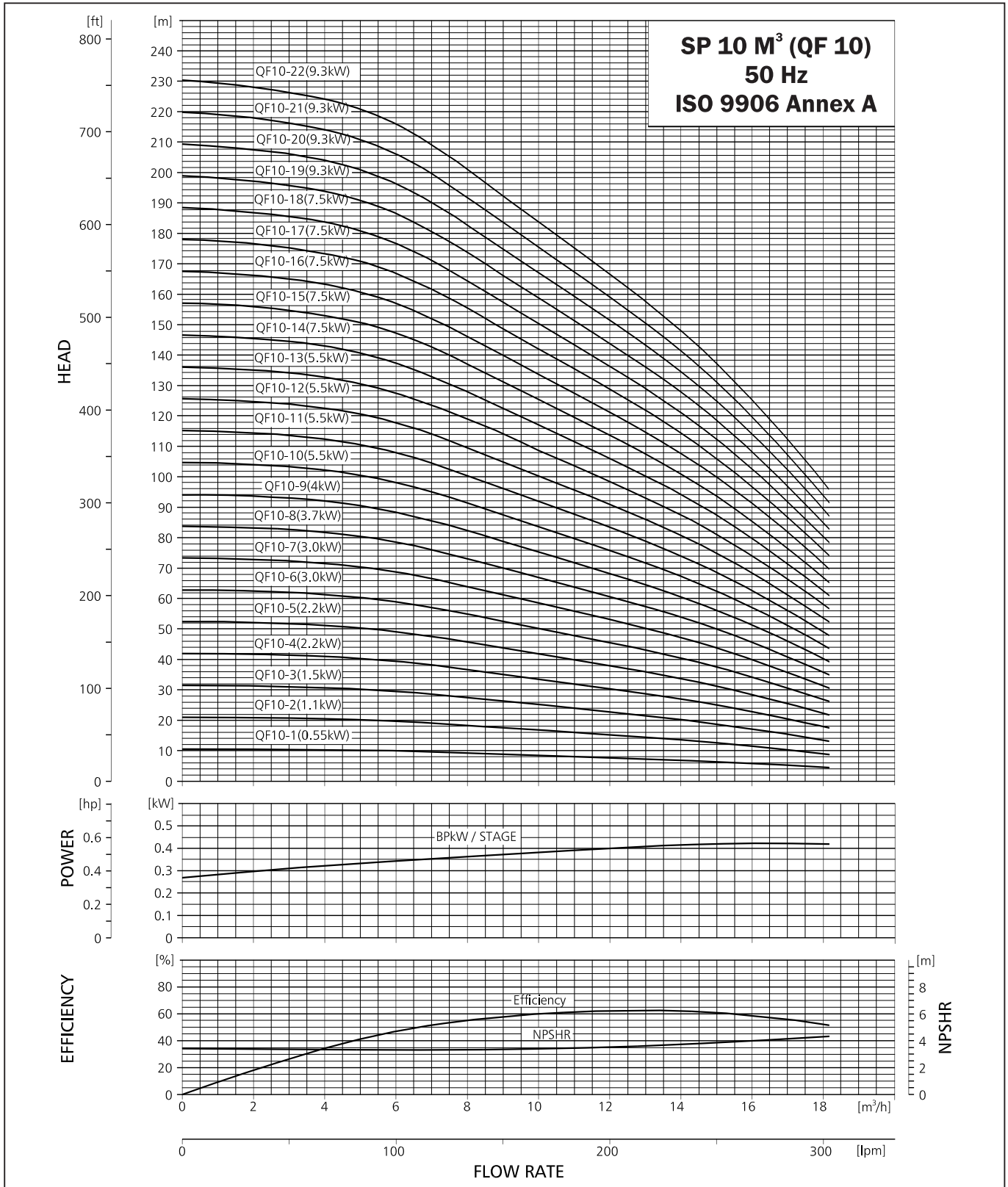


PERFORMANCE CURVE



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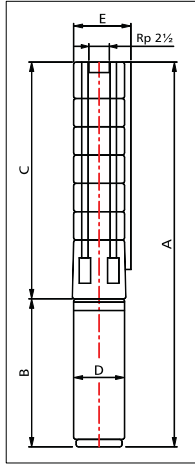
SUBMERSIBLE PUMPS QF10



TECHNICAL DATA QF 10

DIMENSIONS & WEIGHTS

SUBMERSIBLE PUMPS QF10



E= Max. Dia 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					1X230	3X220V 3X400V
QF 10 - 1	RO 100	0.55	318	367	317	685	635	95	131	-	5	8	8
QF 10 - 2	RO 100	1.1	378	422	382	800	760	95	131	-	6	10	9
QF 10 - 3	RO 100	1.5	439	424	422	863	861	95	131	-	7	12	10
QF 10 - 3	RO 101	1.5	439	517	414	956	853	95	131	-	7	12	10
QF 10 - 4	RO 101	2.2	499	585	480	1084	979	95	131	-	9	14	12
QF 10 - 5	RO 101	2.2	560	585	480	1145	1040	95	131	-	10	14	12
QF 10 - 6	RO 101	3.0	620	588	547	1208	1167	95	131	-	11	20	16
QF 10 - 7	RO 101	3.0	681	588	547	1269	1228	95	131	-	12	20	16
QF 10 - 8	RO 101	3.7	741	-	623	-	1364	95	131	-	14	-	19
QF 10 - 9	RO 101	4.0	802	-	623	-	1425	95	131	-	15	-	19
QF 10 - 10	RO 101	5.5	862	-	737	-	1599	95	131	-	16	-	19
QF 10 - 11	RO 101	5.5	923	-	737	-	1660	95	131	-	17	-	22
QF 10 - 12	RO 101	5.5	983	-	737	-	1720	95	131	-	18	-	22
QF 10 - 13	RO 101	5.5	1061	-	737	-	1798	95	131	-	20	-	22
QF 10 - 14	RO 101	7.5	1121	-	808	-	1929	95	131	-	21	-	26
QF 10 - 15	RO 101	7.5	1182	-	808	-	1990	95	131	-	22	-	26
QF 10 - 16	RO 101	7.5	1242	-	808	-	2050	95	131	-	23	-	26
QF 10 - 17	RO 101	7.5	1303	-	808	-	2111	95	131	-	25	-	26
QF 10 - 18	RO 101	7.5	1363	-	808	-	2171	95	131	-	26	-	26
QF 10 - 12	MTSF 150	5.5	983	-	694	-	1677	138	143	145	18	-	48
QF 10 - 13	MTSF 150	5.5	1061	-	694	-	1755	138	143	145	20	-	48
QF 10 - 14	MTSF 150	7.5	1121	-	714	-	1835	138	143	145	21	-	50
QF 10 - 15	MTSF 150	7.5	1182	-	714	-	1896	138	143	145	22	-	50
QF 10 - 16	MTSF 150	7.5	1242	-	714	-	1956	138	143	145	23	-	50
QF 10 - 17	MTSF 150	7.5	1303	-	714	-	2017	138	143	145	25	-	50
QF 10 - 18	MTSF 150	7.5	1363	-	714	-	2077	138	143	145	26	-	50
QF 10 - 19	MTSF 150	9.3	1424	-	744	-	2168	138	143	145	27	-	53
QF 10 - 20	MTSF 150	9.3	1484	-	744	-	2228	138	143	145	28	-	53
QF 10 - 21	MTSF 150	9.3	1545	-	744	-	2289	138	143	145	29	-	53
QF 10 - 22	MTSF 150	9.3	1605	-	744	-	2349	138	143	145	31	-	53
QF 10 - 23	MTSF 150	11.0	1666	-	774	-	2440	138	143	145	32	-	56
QF 10 - 24	MTSF 150	11.0	1726	-	774	-	2500	138	143	145	33	-	56
QF 10 - 25	MTSF 150	11.0	1787	-	774	-	2561	138	143	145	34	-	56
QF 10 - 26	MTSF 150	11.0	1847	-	774	-	2621	138	143	145	36	-	56
QF 10 - 27	MTSF 150	13.0	1908	-	824	-	2732	138	143	145	37	-	61
QF 10 - 28	MTSF 150	13.0	1968	-	824	-	2792	138	143	145	38	-	61
QF 10 - 29	MTSF 150	13.0	2029	-	824	-	2853	138	143	145	39	-	61
QF 10 - 30	MTSF 150	13.0	2089	-	824	-	2913	138	143	145	41	-	61
QF 10 - 31	MTSF 150	13.0	2150	-	824	-	2974	138	143	145	42	-	61
QF 10 - 32	MTSF 150	15.0	2210	-	869	-	3079	138	143	145	43	-	66
QF 10 - 33	MTSF 150	15.0	2271	-	869	-	3140	138	143	145	44	-	66
QF 10 - 34	MTSF 150	15.0	2331	-	869	-	3200	138	143	145	45	-	66
QF 10 - 35	MTSF 150	15.0	2392	-	869	-	3261	138	143	145	47	-	66
QF 10 - 36	MTSF 150	15.0	2452	-	869	-	3321	138	143	145	48	-	66
QF 10 - 37	MTSF 150	18.5	2513	-	914	-	3427	138	143	145	49	-	70
QF 10 - 38	MTSF 150	18.5	2573	-	914	-	3487	138	143	145	50	-	70
QF 10 - 39	MTSF 150	18.5	2634	-	914	-	3548	138	143	145	52	-	70
QF 10 - 40	MTSF 150	18.5	2694	-	914	-	3608	138	143	145	53	-	70
QF 10 - 41	MTSF 150	18.5	2755	-	914	-	3669	138	143	145	54	-	70
QF 10 - 42	MTSF 150	18.5	2815	-	914	-	3729	138	143	145	55	-	70
QF 10 - 43	MTSF 150	18.5	2876	-	914	-	3790	138	143	145	57	-	70
QF 10 - 44	MTSF 150	18.5	2936	-	914	-	3850	138	143	145	58	-	70

* 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 10



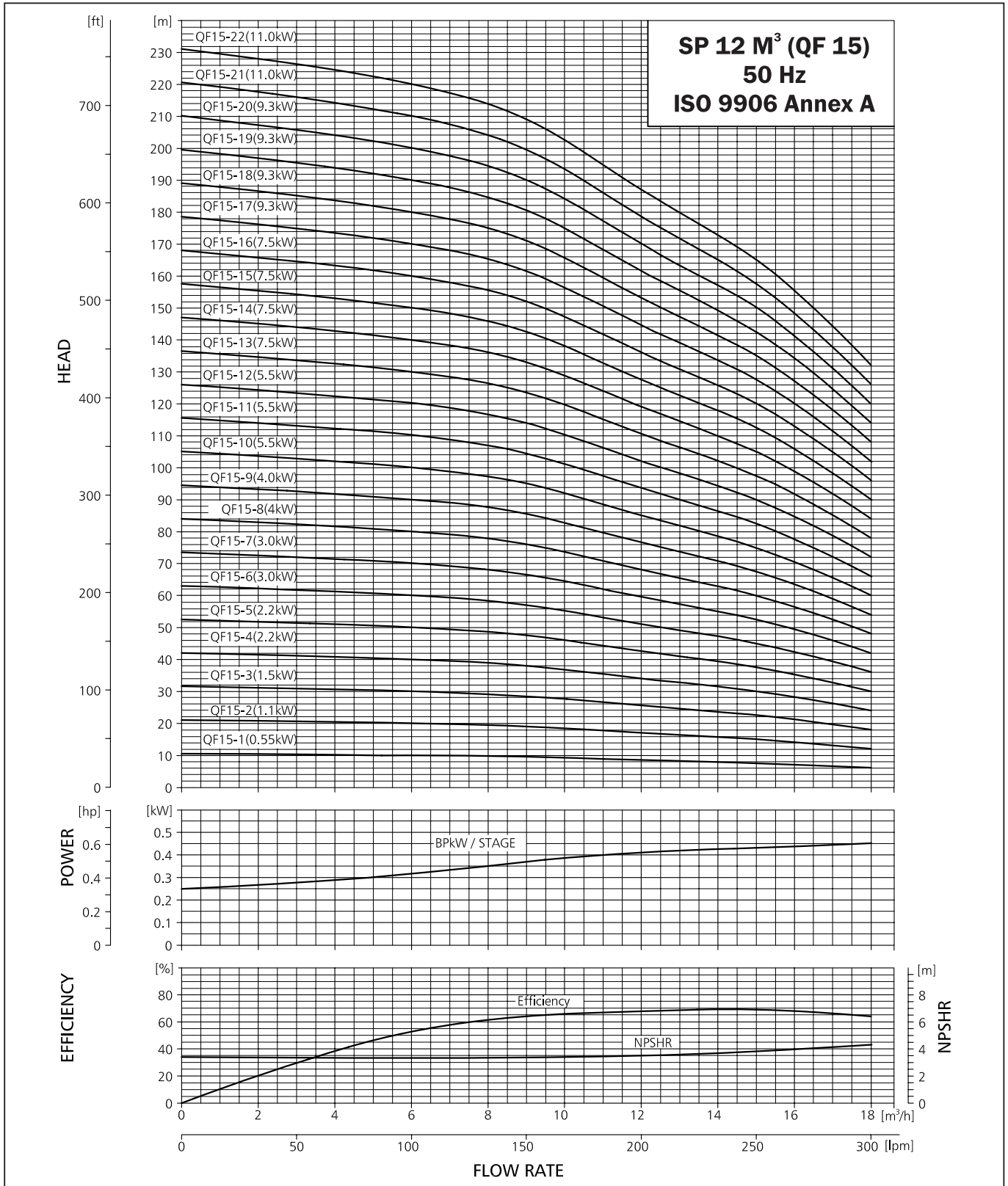
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SUBMERSIBLE PUMPS QF10

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	CONNECTION	MOTOR RATING		TOTAL HEAD IN [m]									
		[KW]	[HP]	10	10	10	10	9	8	8	6	5	4
QF-10-1	Rp2 1/2"	0.55	0.75	10	10	10	10	9	8	8	6	5	4
QF-10-2		1.1	1.5	21	20	20	20	18	17	15	13	11	8
QF-10-3		1.5	2	31	29	29	29	27	25	23	19	16	12
QF-10-4		2.2	3	42	39	39	39	36	33	30	25	21	16
QF-10-5		2.2	3	52	49	49	49	46	42	38	32	27	20
QF-10-6		3	4	62	59	59	59	55	50	45	38	32	24
QF-10-7		3	4	73	68	68	68	64	59	53	44	37	28
QF-10-8		3.7	5	83	78	78	78	73	67	61	51	43	32
QF-10-9		4	5.5	94	88	88	88	82	75	68	57	48	36
QF-10-10		5.5	7.5	104	98	98	98	91	84	76	63	53	40
QF-10-11		5.5	7.5	114	107	107	107	100	92	83	70	59	44
QF-10-12		5.5	7.5	125	117	117	117	109	100	91	76	64	48
QF-10-13		5.5	7.5	135	127	127	127	118	109	98	82	69	52
QF-10-14		7.5	10	146	137	137	137	128	117	106	89	75	56
QF-10-15		7.5	10	156	147	147	147	137	125	114	95	80	60
QF-10-16		7.5	10	166	156	156	156	146	134	121	101	85	64
QF-10-17		7.5	10	177	166	166	166	155	142	129	108	91	68
QF-10-18		7.5	10	187	176	176	176	164	150	136	114	96	72
QF-10-19		9.3	12.5	198	186	186	186	173	159	144	120	101	76
QF-10-20		9.3	12.5	208	195	195	195	182	167	151	127	107	80
QF-10-21		9.3	12.5	218	205	205	205	191	176	159	133	112	84
QF-10-22		9.3	12.5	229	215	215	215	200	184	167	139	117	88
QF-10-23		11	15	239	225	225	225	210	192	174	146	123	92
QF-10-24		11	15	250	234	234	234	219	201	182	152	128	96
QF-10-25		11	15	260	244	244	244	228	209	189	159	134	100
QF-10-26		11	15	270	254	254	254	237	217	197	165	139	104
QF-10-27		13	17.5	281	264	264	264	246	226	204	171	144	108
QF-10-28		13	17.5	291	274	274	274	255	234	212	178	150	112
QF-10-29		13	17.5	302	283	283	283	264	242	220	184	155	116
QF-10-30		13	17.5	312	293	293	293	273	251	227	190	160	120
QF-10-31		13	17.5	322	303	303	303	282	259	235	197	166	124
QF-10-32		15	20	333	313	313	313	292	268	242	203	171	128
QF-10-33		15	20	343	322	322	322	301	276	250	209	176	132
QF-10-34		15	20	354	332	332	332	310	284	257	216	182	136
QF-10-35		15	20	364	342	342	342	319	293	265	222	187	140
QF-10-36		15	20	374	352	352	352	328	301	273	228	192	144
QF-10-37		18.5	25	385	361	361	361	337	309	280	235	198	148
QF-10-38		18.5	25	395	371	371	371	346	318	288	241	203	152
QF-10-39		18.5	25	406	381	381	381	355	326	295	247	208	156
QF-10-40		18.5	25	416	391	391	391	364	334	303	254	214	160
QF-10-41		18.5	25	426	401	401	401	374	343	310	260	219	164
QF-10-42		18.5	25	437	410	410	410	383	351	318	266	224	168
QF-10-43		18.5	25	447	420	420	420	392	359	326	273	230	172
QF-10-44		18.5	25	458	430	430	430	401	368	333	279	235	176

PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF15

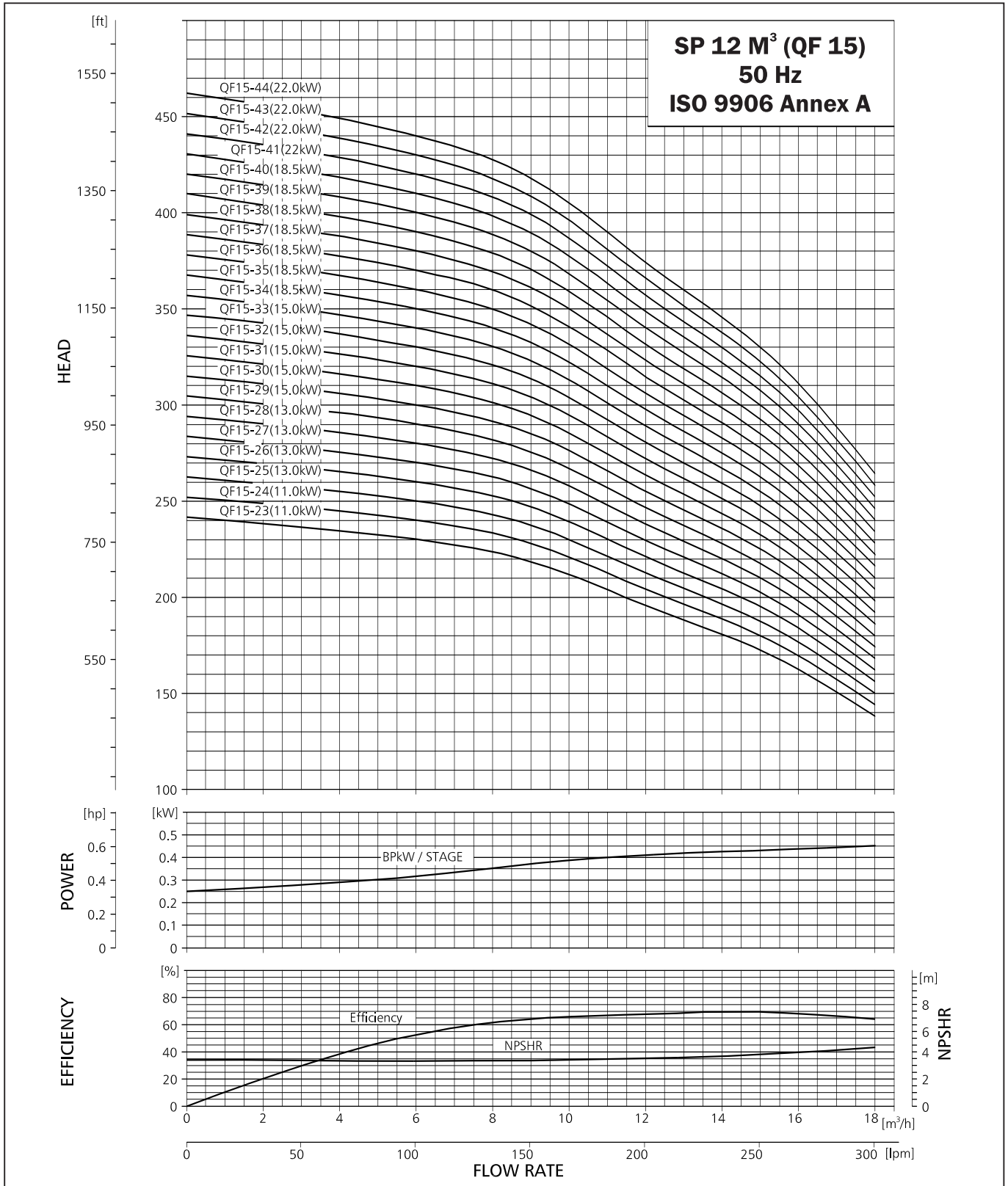


PERFORMANCE CURVE



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SUBMERSIBLE PUMPS QF15



TECHNICAL DATA QF 15

SUBMERSIBLE PUMPS QF15

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					1X230	3X220V 3X400V
QF 15 - 1	RO 100	0.55	318	367	317	685	635	95	131	-	5	9	9
QF 15 - 2	RO 100	1.1	378	422	382	800	760	95	131	-	6	12	10
QF 15 - 3	RO 100	1.5	439	-	422	-	861	95	131	-	7	-	12
QF 15 - 3	RO 101	1.5	439	517	414	956	853	95	131	-	7	16	12
QF 15 - 4	RO 101	2.2	499	585	480	1084	979	95	131	-	9	20	16
QF 15 - 5	RO 101	2.2	560	585	480	1145	1040	95	131	-	10	20	16
QF 15 - 6	RO 101	3.0	620	-	547	-	1167	95	131	-	11	-	19
QF 15 - 7	RO 101	3.0	681	-	547	-	1228	95	131	-	12	-	19
QF 15 - 8	RO 101	4.0	741	-	623	-	1364	95	131	-	14	-	22
QF 15 - 9	RO 101	4.0	802	-	623	-	1425	95	131	-	15	-	22
QF 15 - 10	RO 101	5.5	862	-	737	-	1599	95	131	-	16	-	27
QF 15 - 11	RO 101	5.5	923	-	737	-	1660	95	131	-	17	-	27
QF 15 - 12	RO 101	5.5	1000	-	737	-	1737	95	131	-	18	-	27
QF 15 - 13	RO 101	7.5	1061	-	808	-	1869	95	131	-	20	-	31
QF 15 - 14	RO 101	7.5	1121	-	808	-	1929	95	131	-	21	-	31
QF 15 - 15	RO 101	7.5	1182	-	808	-	1990	95	131	-	22	-	31
QF 15 - 16	RO 101	7.5	1242	-	808	-	2050	95	131	-	23	-	31
QF 15 - 11	MTSF 150	5.5	923	-	694	-	1617	143	143	145	17	-	48
QF 15 - 12	MTSF 150	5.5	1000	-	694	-	1694	143	143	145	18	-	48
QF 15 - 13	MTSF 150	7.5	1061	-	714	-	1775	143	143	145	20	-	50
QF 15 - 14	MTSF 150	7.5	1121	-	714	-	1855	143	143	145	21	-	50
QF 15 - 15	MTSF 150	7.5	1182	-	714	-	1896	143	143	145	22	-	50
QF 15 - 16	MTSF 150	7.5	1242	-	714	-	1956	143	143	145	23	-	50
QF 15 - 17	MTSF 150	9.3	1303	-	744	-	2047	143	143	145	25	-	53
QF 15 - 18	MTSF 150	9.3	1363	-	744	-	2107	143	143	145	26	-	53
QF 15 - 19	MTSF 150	9.3	1424	-	744	-	2158	143	143	145	27	-	53
QF 15 - 20	MTSF 150	9.3	1484	-	744	-	2228	143	143	145	28	-	53
QF 15 - 21	MTSF 150	11.0	1545	-	774	-	2319	143	143	145	29	-	56
QF 15 - 22	MTSF 150	11.0	1605	-	774	-	2379	143	143	145	31	-	56
QF 15 - 23	MTSF 150	11.0	1666	-	774	-	2440	143	143	145	32	-	56
QF 15 - 24	MTSF 150	11.0	1726	-	774	-	2500	143	143	145	33	-	56
QF 15 - 25	MTSF 150	13.0	1787	-	824	-	2511	143	143	145	34	-	61
QF 15 - 26	MTSF 150	13.0	1848	-	824	-	2671	143	143	145	36	-	61
QF 15 - 27	MTSF 150	13.0	1908	-	824	-	2732	143	143	145	37	-	61
QF 15 - 28	MTSF 150	13.0	1968	-	824	-	2792	143	143	145	38	-	61
QF 15 - 29	MTSF 150	15.0	2029	-	869	-	2898	143	143	145	39	-	66
QF 15 - 30	MTSF 150	15.0	2089	-	869	-	2958	143	143	145	41	-	66
QF 15 - 31	MTSF 150	15.0	2150	-	869	-	3019	143	143	145	42	-	66
QF 15 - 32	MTSF 150	15.0	2210	-	869	-	3079	143	143	145	43	-	66
QF 15 - 33	MTSF 150	15.0	2271	-	869	-	3140	143	143	145	44	-	66
QF 15 - 34	MTSF 150	18.5	2331	-	914	-	3245	143	143	145	45	-	70
QF 15 - 35	MTSF 150	18.5	2392	-	914	-	3306	143	143	145	47	-	70
QF 15 - 36	MTSF 150	18.5	2452	-	914	-	3366	143	143	145	48	-	70
QF 15 - 37	MTSF 150	18.5	2513	-	914	-	3427	143	143	145	49	-	70
QF 15 - 38	MTSF 150	18.5	2573	-	914	-	3487	143	143	145	50	-	70
QF 15 - 39	MTSF 150	18.5	2634	-	914	-	3548	143	143	145	52	-	70
QF 15 - 40	MTSF 150	18.5	2694	-	914	-	3608	143	143	145	53	-	70
QF 15 - 41	MTSF 150	22.0	2755	-	1004	-	3759	143	143	145	54	-	79
QF 15 - 42	MTSF 150	22.0	2815	-	1004	-	3819	143	143	145	55	-	79
QF 15 - 43	MTSF 150	22.0	2876	-	1004	-	3880	143	143	145	57	-	79
QF 15 - 44	MTSF 150	22.0	2936	-	1004	-	3940	143	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.

PERFORMANCE TABLE QF 15



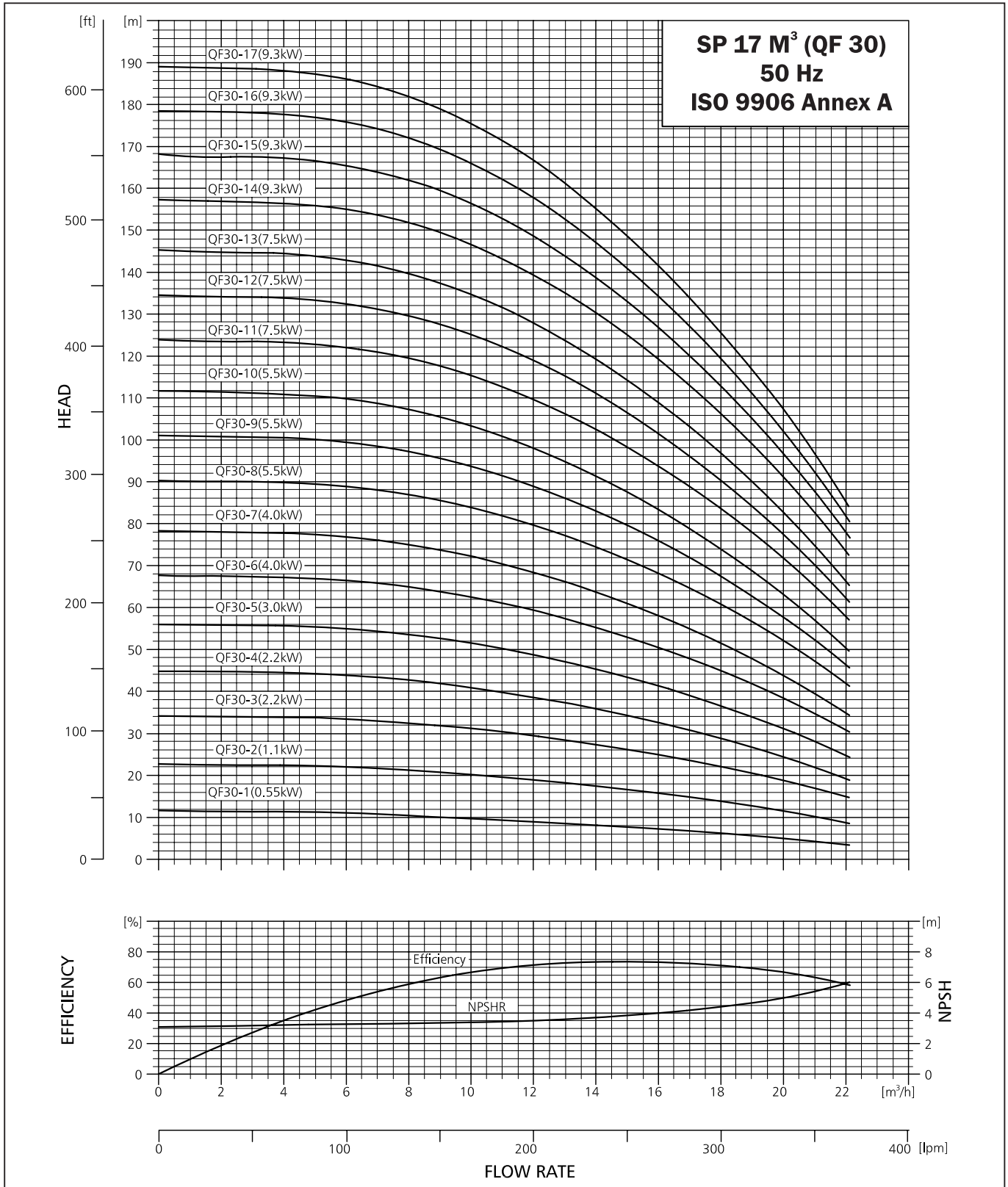
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SUBMERSIBLE PUMPS QF15

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	CONNECTION	MOTOR RATING		TOTAL HEAD IN [m]									
		[KW]	[HP]										
QF 15 - 1	Rp2 ¹ / ₂ "	0.55	0.75	11	10	10	10	10	9	9	8	7	6
QF 15 - 2		1.1	1.5	21	20	20	20	19	18	17	15	13	12
QF 15 - 3		1.5	2	32	31	30	30	29	27	26	23	20	18
QF 15 - 4		2.2	3	42	41	40	40	38	36	34	30	26	24
QF 15 - 5		2.2	3	53	51	50	50	48	45	43	38	33	30
QF 15 - 6		3	4	63	61	60	60	57	54	51	45	39	36
QF 15 - 7		3	4	74	71	70	70	67	63	60	53	46	42
QF 15 - 8		4	5.5	84	82	80	80	76	72	68	60	52	48
QF 15 - 9		4	5.5	95	92	90	90	86	81	77	68	59	54
QF 15 - 10		5.5	7.5	105	102	100	100	95	90	85	75	66	60
QF 15 - 11		5.5	7.5	116	112	110	110	105	99	94	83	72	66
QF 15 - 12		5.5	7.5	126	122	120	120	114	108	102	90	79	72
QF 15 - 13		7.5	10	137	133	130	130	124	117	111	98	85	78
QF 15 - 14		7.5	10	147	143	140	140	133	126	119	105	92	84
QF 15 - 15		7.5	10	158	153	150	150	143	135	128	113	98	90
QF 15 - 16		7.5	10	168	163	160	160	152	144	136	120	105	96
QF 15 - 17		9.3	12.5	179	173	170	170	162	153	145	128	111	102
QF 15 - 18		9.3	12.5	189	184	180	180	171	162	153	135	118	108
QF 15 - 19		9.3	12.5	200	194	190	190	181	171	162	143	124	114
QF 15 - 20		9.3	12.5	210	204	200	200	190	180	170	150	131	120
QF 15 - 21		11	15	221	214	210	210	200	189	179	158	138	126
QF 15 - 22		11	15	231	224	220	220	209	198	187	165	144	132
QF 15 - 23		11	15	242	235	230	230	219	207	196	173	151	138
QF 15 - 24		11	15	252	245	240	240	228	216	204	180	157	144
QF 15 - 25		13	17.5	263	255	250	250	238	225	213	188	164	150
QF 15 - 26		13	17.5	273	265	260	260	247	234	221	195	170	156
QF 15 - 27		13	17.5	284	275	270	270	257	243	230	203	177	162
QF 15 - 28		13	17.5	294	286	280	280	266	252	238	210	183	168
QF 15 - 29		15	20	305	296	290	290	276	261	247	218	190	174
QF 15 - 30		15	20	315	306	300	300	285	270	255	225	197	180
QF 15 - 31		15	20	326	316	310	310	295	279	264	233	203	186
QF 15 - 32		15	20	336	326	320	320	304	288	272	240	210	192
QF 15 - 33		15	20	347	337	330	330	314	297	281	248	216	198
QF 15 - 34		18.5	25	357	347	340	340	323	306	289	255	223	204
QF 15 - 35		18.5	25	368	357	350	350	333	315	298	263	229	210
QF 15 - 36		18.5	25	378	367	360	360	342	324	306	270	236	216
QF 15 - 37		18.5	25	389	377	370	370	352	333	315	278	242	222
QF 15 - 38		18.5	25	399	388	380	380	361	342	323	285	249	228
QF 15 - 39		18.5	25	410	398	390	390	371	351	332	293	255	234
QF 15 - 40		18.5	25	420	408	400	400	380	360	340	300	262	240
QF 15 - 41		22	30	431	418	410	410	390	369	349	308	269	246
QF 15 - 42		22	30	441	428	420	420	399	378	357	315	275	252
QF 15 - 43		22	30	452	439	430	430	409	387	366	323	282	258
QF 15 - 44		22	30	462	449	440	440	418	396	374	330	288	264

PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF30

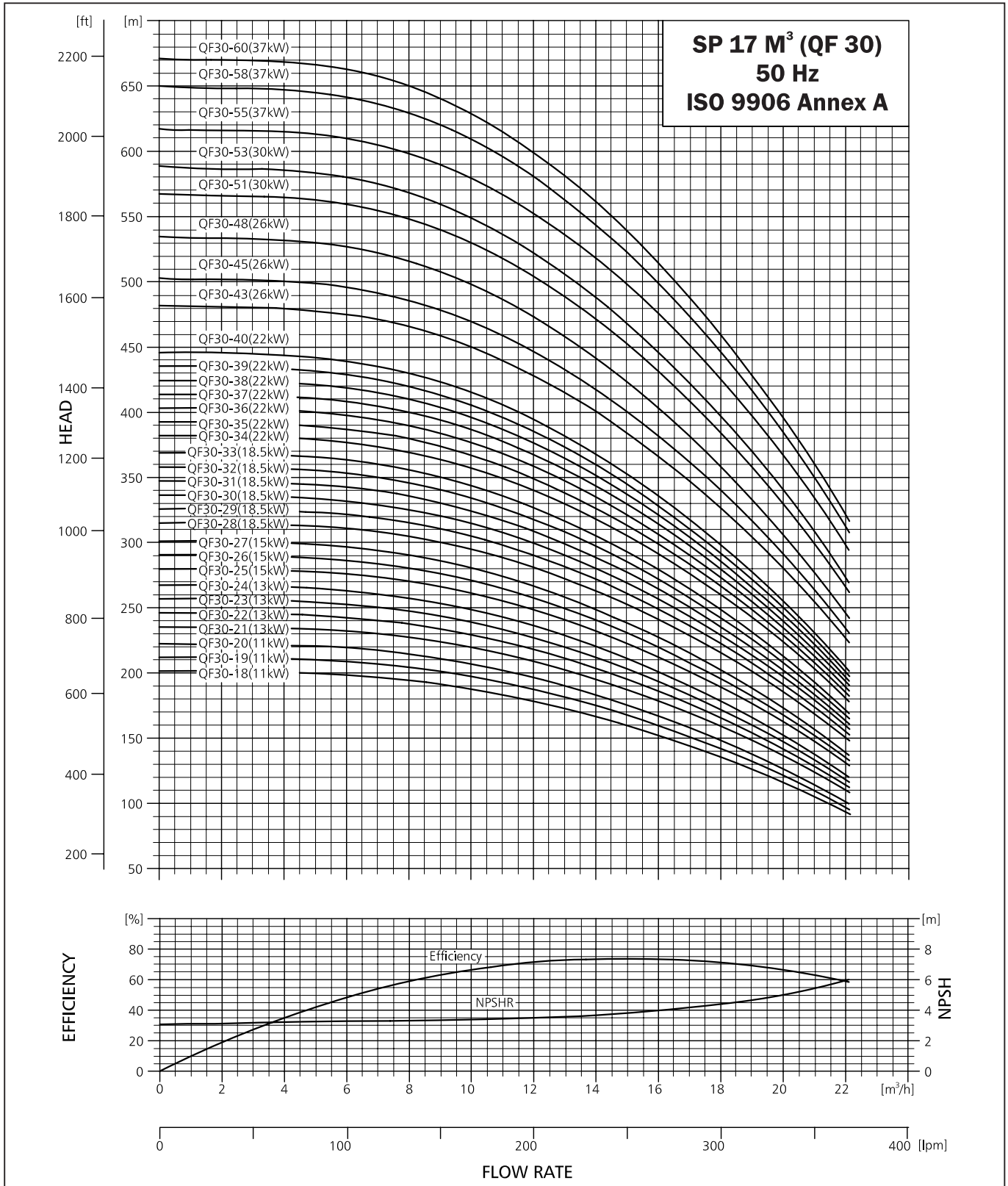


PERFORMANCE CURVE



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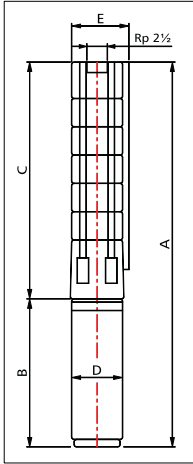
SUBMERSIBLE PUMPS QF30



TECHNICAL DATA QF 30

DIMENSIONS & WEIGHTS

SUBMERSIBLE PUMPS QF30



E= Max dia of pump inclusive of cable guard & motor

QF 30 - 43 to QF 30 60 are mounted in sleeve R 3" connection

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					1X230	3X220V 3X400V
QF 30 - 1	RO 100	0.55	318	352	352	670	670	95	131	-	7	9	9
QF 30 - 2	RO 100	1.1	378	424	382	802	760	95	131	-	9	12	10
QF 30 - 3	RO 101	2.2	439	585	480	1024	919	95	131	-	10	20	16
QF 30 - 4	RO 101	2.2	499	585	480	1084	979	95	131	-	11	20	16
QF 30 - 5	RO 101	3.0	560	-	623	-	1183	95	131	-	12	-	22
QF 30 - 6	RO 101	4.0	620	-	623	-	1243	95	131	-	14	-	22
QF 30 - 7	RO 101	4.0	681	-	623	-	1304	95	131	-	15	-	22
QF 30 - 8	RO 101	5.5	741	-	737	-	1478	95	131	-	16	-	27
QF 30 - 9	RO 101	5.5	802	-	737	-	1539	95	131	-	17	-	27
QF 30 - 10	RO 101	5.5	862	-	737	-	1599	95	131	-	18	-	27
QF 30 - 11	RO 101	7.5	923	-	814	-	1737	95	131	-	20	-	32
QF 30 - 12	RO 101	7.5	983	-	814	-	1797	95	131	-	21	-	32
QF 30 - 13	RO 101	7.5	1061	-	814	-	1875	95	131	-	22	-	32
QF 30 - 8	MTSF 150	5.5	758	-	694	-	1452	142	143	145	16	-	48
QF 30 - 9	MTSF 150	5.5	819	-	694	-	1513	142	143	145	17	-	48
QF 30 - 10	MTSF 150	5.5	879	-	694	-	1573	142	143	145	18	-	48
QF 30 - 11	MTSF 150	7.5	940	-	714	-	1654	142	143	145	20	-	50
QF 30 - 12	MTSF 150	7.5	1000	-	714	-	1714	142	143	145	21	-	50
QF 30 - 13	MTSF 150	7.5	1061	-	714	-	1775	142	143	145	22	-	50
QF 30 - 14	MTSF 150	9.3	1121	-	744	-	1865	142	143	145	23	-	53
QF 30 - 15	MTSF 150	9.3	1182	-	744	-	1926	142	143	145	25	-	53
QF 30 - 16	MTSF 150	9.3	1242	-	744	-	1986	142	143	145	26	-	53
QF 30 - 17	MTSF 150	9.3	1303	-	744	-	2047	142	143	145	27	-	53
QF 30 - 18	MTSF 150	11.0	1363	-	774	-	2137	142	143	145	28	-	56
QF 30 - 19	MTSF 150	11.0	1424	-	774	-	2198	142	143	145	30	-	56
QF 30 - 20	MTSF 150	11.0	1484	-	774	-	2258	142	143	145	31	-	56
QF 30 - 21	MTSF 150	13.0	1545	-	824	-	2369	142	143	145	32	-	61
QF 30 - 22	MTSF 150	13.0	1605	-	824	-	2429	142	143	145	33	-	61
QF 30 - 23	MTSF 150	13.0	1666	-	824	-	2490	142	143	145	34	-	61
QF 30 - 24	MTSF 150	13.0	1726	-	824	-	2550	142	143	145	36	-	61
QF 30 - 25	MTSF 150	15.0	1787	-	869	-	2656	142	143	145	37	-	66
QF 30 - 26	MTSF 150	15.0	1847	-	869	-	2716	142	143	145	38	-	66
QF 30 - 27	MTSF 150	15.0	1908	-	869	-	2777	142	143	145	39	-	66
QF 30 - 28	MTSF 150	18.5	1968	-	914	-	2882	142	143	145	41	-	70
QF 30 - 29	MTSF 150	18.5	2029	-	914	-	2943	142	143	145	42	-	70
QF 30 - 30	MTSF 150	18.5	2089	-	914	-	3003	142	143	145	43	-	70
QF 30 - 31	MTSF 150	18.5	2150	-	914	-	3064	142	143	145	44	-	70
QF 30 - 32	MTSF 150	18.5	2210	-	914	-	3124	142	143	145	46	-	70
QF 30 - 33	MTSF 150	18.5	2271	-	914	-	3185	142	143	145	47	-	70
QF 30 - 34	MTSF 150	22.0	2331	-	1004	-	3335	142	143	145	48	-	79
QF 30 - 35	MTSF 150	22.0	2392	-	1004	-	3396	142	143	145	49	-	79
QF 30 - 36	MTSF 150	22.0	2452	-	1004	-	3456	142	143	145	50	-	79
QF 30 - 37	MTSF 150	22.0	2513	-	1004	-	3517	142	143	145	52	-	79
QF 30 - 38	MTSF 150	22.0	2573	-	1004	-	3577	142	143	145	53	-	79
QF 30 - 39	MTSF 150	22.0	2634	-	1004	-	3638	142	143	145	54	-	79
QF 30 - 40	MTSF 150	22.0	2694	-	1004	-	3698	142	143	145	55	-	79
QF 30 - 43	MTSF 150	26.0	2876	-	1109	-	3985	142	143	145	59	-	90
QF 30 - 45	MTSF 150	26.0	2997	-	1109	-	4106	142	143	145	62	-	90
QF 30 - 48	MTSF 150	26.0	3178	-	1109	-	4287	142	143	145	65	-	90
QF 30 - 51	MTSF 150	30.0	3360	-	1209	-	4569	142	143	145	69	-	100
QF 30 - 53	MTSF 150	30.0	3481	-	1209	-	4690	142	143	145	71	-	100
QF 30 - 55	MTSF 150	37.0	3602	-	1289	-	4891	142	143	145	74	-	106
QF 30 - 51	MTSF 200	30.0	3360	-	1140	-	4500	195	195	195	69	-	172
QF 30 - 53	MTSF 200	30.0	3481	-	1140	-	4621	195	195	195	71	-	172
QF 30 - 55	MTSF 200	37.0	3602	-	1140	-	4742	195	195	195	74	-	172
QF 30 - 58	MTSF 200	37.0	3783	-	1140	-	4923	195	195	195	78	-	172
QF 30 - 60	MTSF 200	37.0	3904	-	1140	-	5044	195	195	195	80	-	172

* 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 30



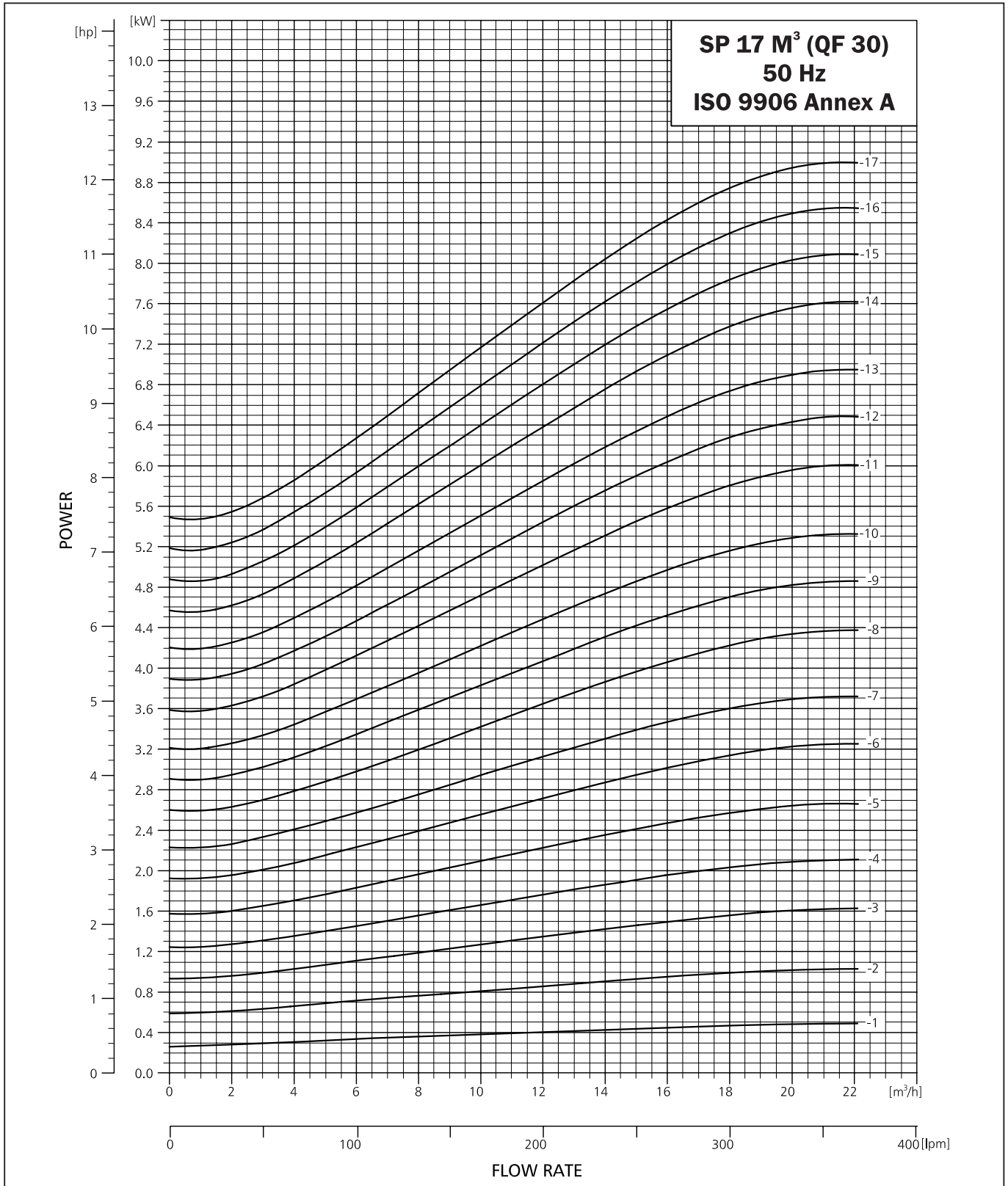
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SUBMERSIBLE PUMPS QF30

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	MOTOR RATING		TOTAL HEAD IN [m]											
	[KW]	[HP]												
QF 30 - 1	0.55	0.75	12	11	11	11	10	10	9	8	7	6	5	4
QF 30 - 2	1.1	1.5	23	23	22	22	21	20	19	17	16	14	12	9
QF 30 - 3	2.2	3	34	34	34	33	33	31	29	27	25	22	19	15
QF 30 - 4	2.2	3	45	45	44	44	43	41	39	36	33	29	24	19
QF 30 - 5	3	4	56	56	56	55	54	51	49	45	41	37	31	25
QF 30 - 6	4	5.5	68	67	67	66	65	63	59	55	50	45	38	31
QF 30 - 7	4	5.5	78	78	78	77	75	72	68	64	58	52	44	35
QF 30 - 8	5.5	7.5	90	90	90	89	87	84	80	74	68	61	52	42
QF 30 - 9	5.5	7.5	101	101	100	99	97	94	89	83	76	67	58	46
QF 30 - 10	5.5	7.5	112	111	111	110	107	103	98	91	83	74	63	50
QF 30 - 11	7.5	10	124	124	123	122	119	115	110	102	94	84	72	58
QF 30 - 12	7.5	10	135	134	134	132	130	125	119	111	101	90	77	62
QF 30 - 13	7.5	10	145	145	144	143	140	135	128	119	109	97	83	66
QF 30 - 14	9.3	12.5	157	157	156	155	152	147	139	130	119	106	91	74
QF 30 - 15	9.3	12.5	168	168	167	165	162	156	149	139	127	113	97	78
QF 30 - 16	9.3	12.5	179	178	178	176	172	166	158	147	134	119	102	82
QF 30 - 17	9.3	12.5	189	189	188	186	182	175	166	155	141	126	107	86
QF 30 - 18	11	15	202	201	200	199	194	188	178	167	152	136	116	94
QF 30 - 19	11	15	212	212	211	209	204	197	187	175	160	142	121	97
QF 30 - 20	11	15	223	222	221	219	214	207	196	183	167	148	126	101
QF 30 - 21	13	17.5	235	235	234	232	227	220	209	195	179	159	137	110
QF 30 - 22	13	17.5	246	246	245	243	237	229	218	204	186	166	142	114
QF 30 - 23	13	17.5	257	256	255	253	248	239	227	212	193	172	147	118
QF 30 - 24	13	17.5	267	267	266	263	258	248	236	220	201	178	152	122
QF 30 - 25	15	20	280	279	279	276	270	261	248	232	212	189	162	131
QF 30 - 26	15	20	291	290	289	286	280	271	257	240	220	196	168	135
QF 30 - 27	15	20	301	300	300	297	290	280	266	249	227	202	173	139
QF 30 - 28	18.5	25	315	314	314	311	305	295	281	263	241	215	186	151
QF 30 - 29	18.5	25	326	325	324	321	315	305	290	272	249	222	191	155
QF 30 - 30	18.5	25	336	336	335	332	325	315	299	280	257	229	197	159
QF 30 - 32	18.5	25	347	346	346	342	336	324	309	289	264	236	202	163
QF 30 - 32	18.5	25	358	357	356	353	346	334	318	297	272	242	208	168
QF 30 - 33	18.5	25	368	368	367	363	356	344	327	305	279	249	213	172
QF 30 - 34	22	30	382	381	380	377	369	357	340	318	291	260	223	181
QF 30 - 35	22	30	392	392	391	387	380	367	349	326	299	266	229	185
QF 30 - 36	22	30	403	402	401	398	390	377	358	335	306	273	234	189
QF 30 - 37	22	30	414	413	412	408	400	386	367	343	314	279	240	193
QF 30 - 38	22	30	425	424	423	418	410	396	376	351	321	286	245	197
QF 30 - 39	22	30	435	434	433	429	420	405	385	360	328	292	250	201
QF 30 - 40	22	30	446	445	444	439	430	415	394	368	336	298	255	205
QF 30 - 43	26	35	481	481	479	475	466	450	428	400	366	326	280	227
QF 30 - 45	26	35	503	502	501	496	486	469	446	417	381	339	291	235
QF 30 - 48	26	35	535	534	532	527	516	498	473	441	403	358	306	246

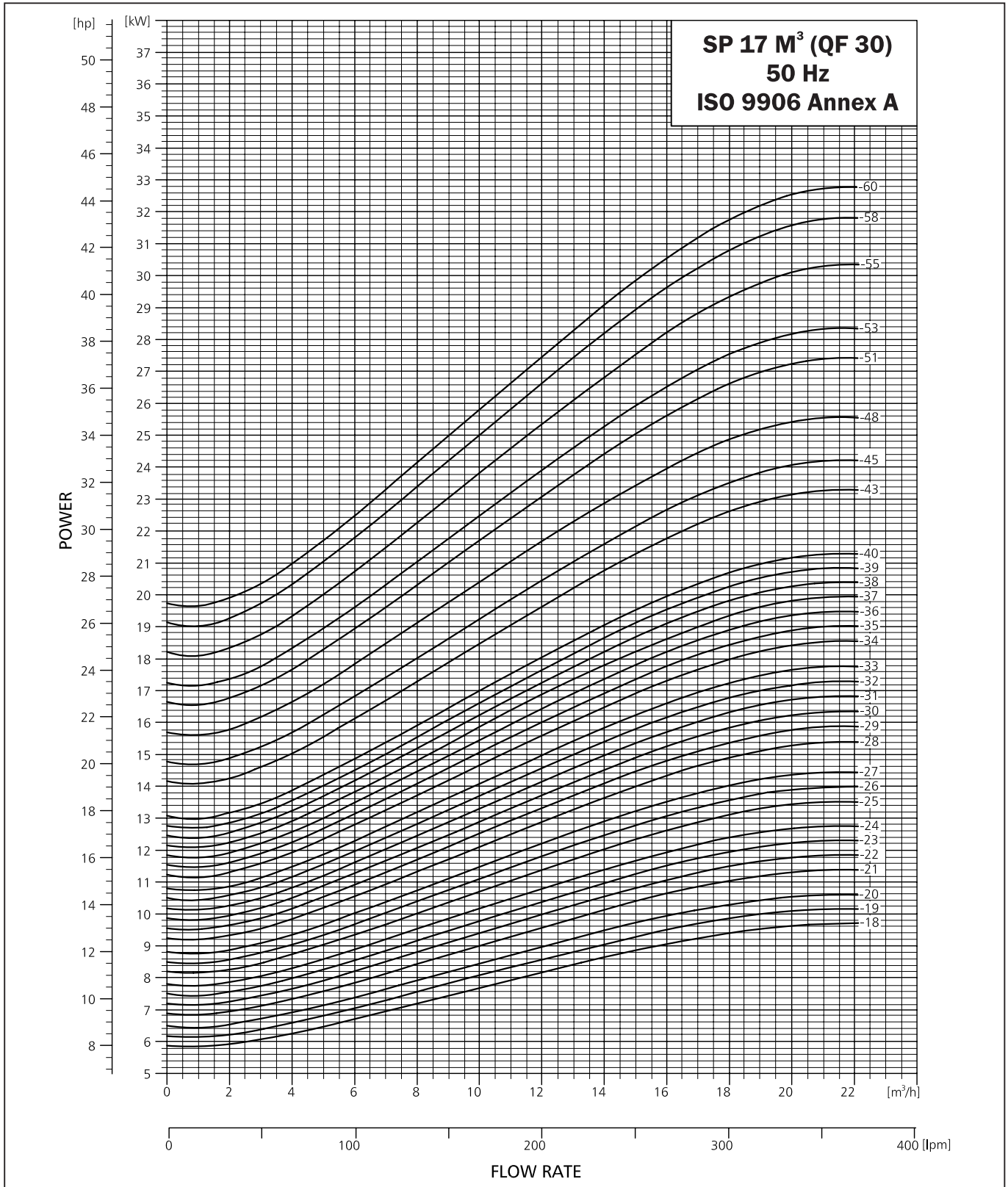
PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF30



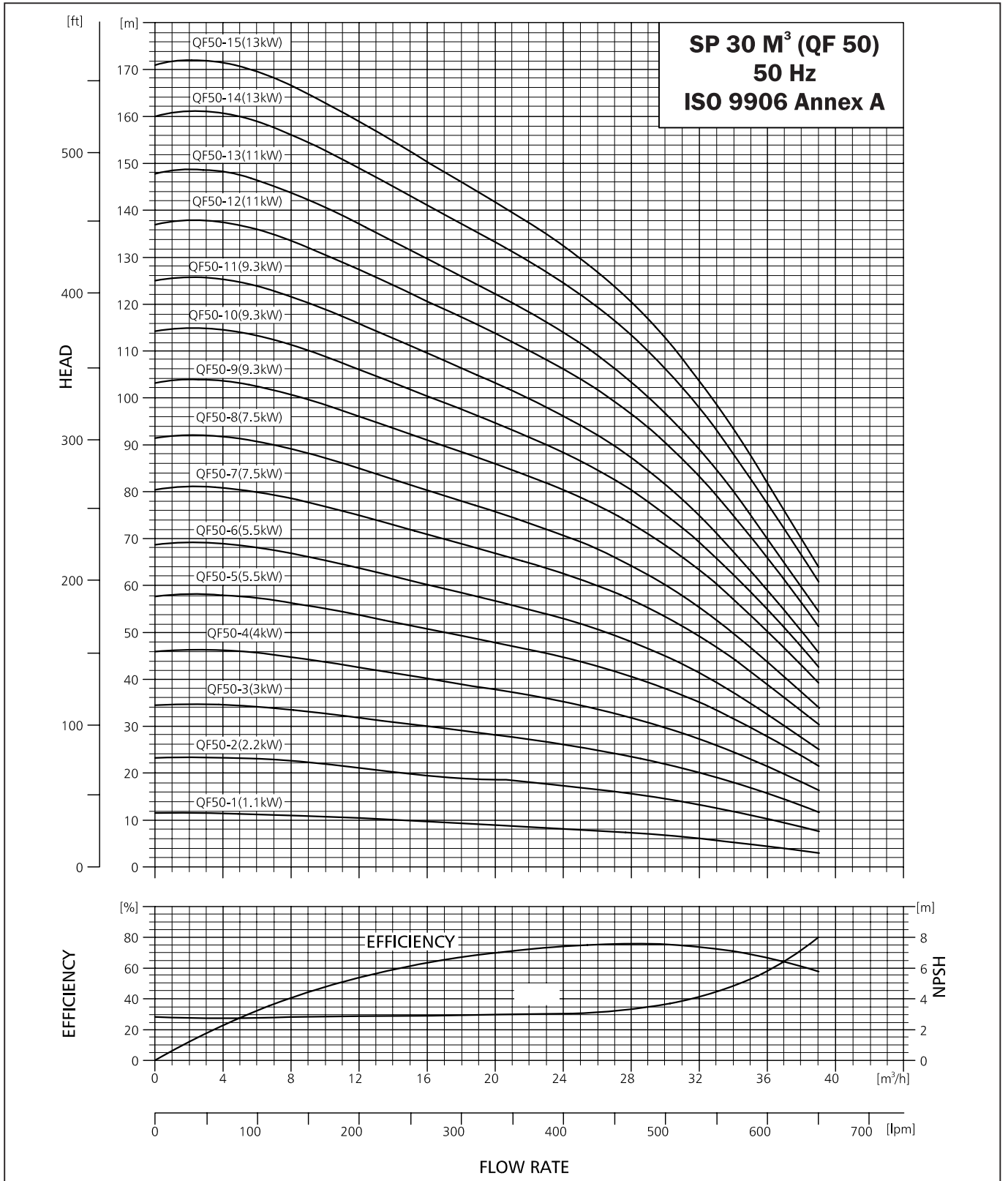
PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF30



PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF50

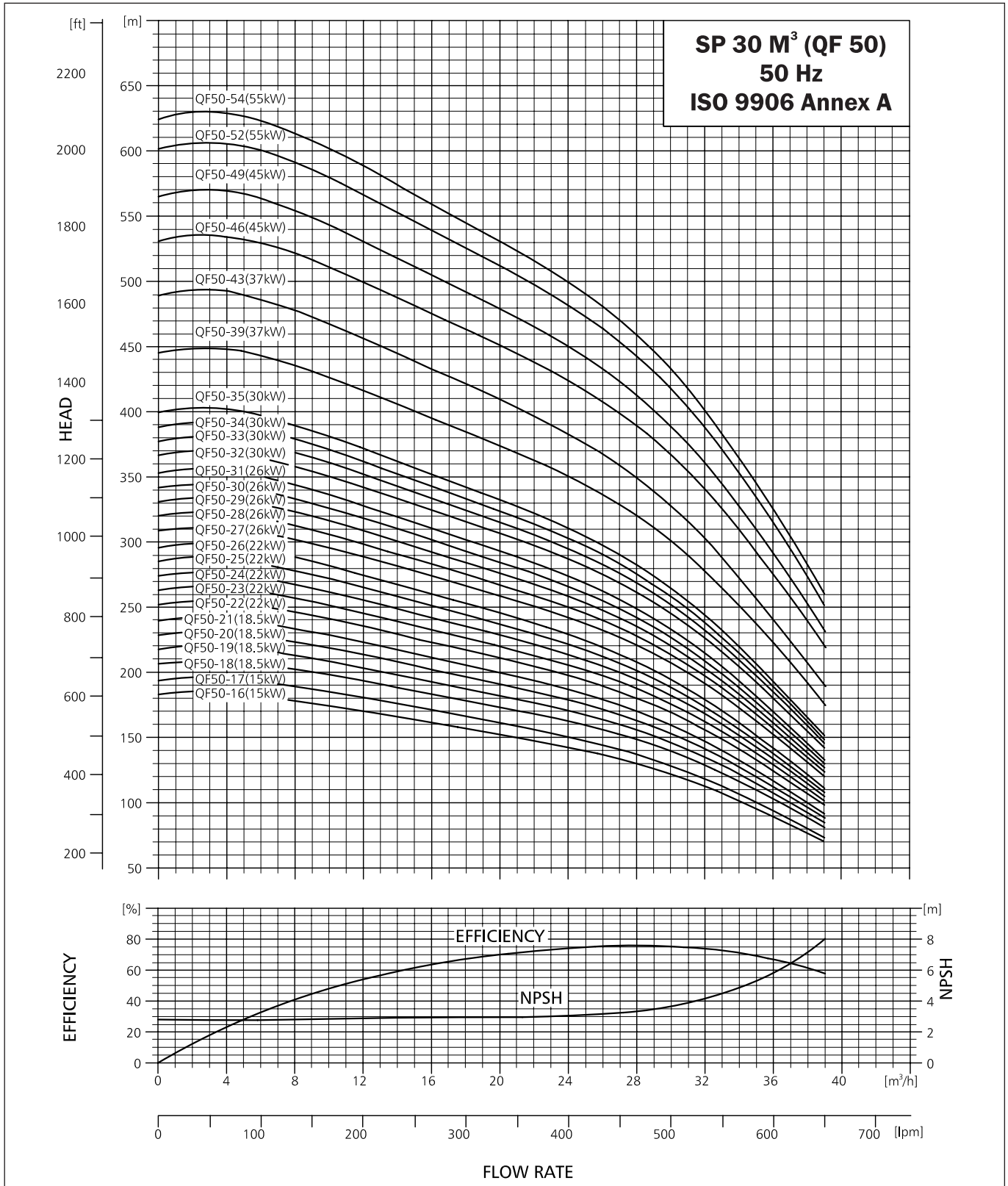


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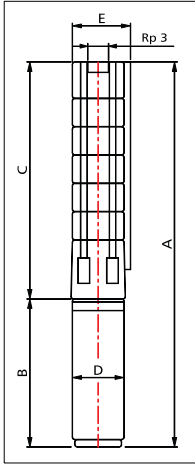
SUBMERSIBLE PUMPS QF50



TECHNICAL DATA QF 50

DIMENSIONS & WEIGHTS

SUBMERSIBLE PUMPS QF50



E= Max. Dia of Pump inclusive of cable guard & motor.
 QF 50-39 to QF 50-54 are mounted in sleeve for R 3" connection.

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
QF 50 - 1	RO 100	1.1	353	424	382	777	735	95	131	-	8	12	10
QF 50 - 2	RO 101	2.2	449	585	480	1034	929	95	131	-	10	21	16
QF 50 - 3	RO 101	3.0	545	-	547	-	1092	95	131	-	12	-	19
QF 50 - 4	RO 101	4.0	641	-	623	-	1264	95	131	-	14	-	22
QF 50 - 5	RO 101	5.5	737	-	737	-	1474	95	131	-	16	-	27
QF 50 - 6	RO 101	5.5	833	-	737	-	1570	95	131	-	18	-	27
QF 50 - 7	RO 101	7.5	929	-	814	-	1743	95	131	-	20	-	31
QF 50 - 8	RO 101	7.5	1025	-	814	-	1839	95	131	-	22	-	31
QF 50 - 5	MTSF 150	5.5	754	-	694	-	1448	142	143	145	16	-	48
QF 50 - 6	MTSF 150	5.5	850	-	694	-	1544	142	143	145	18	-	48
QF 50 - 7	MTSF 150	7.5	946	-	714	-	1660	142	143	145	20	-	50
QF 50 - 8	MTSF 150	7.5	1042	-	714	-	1756	142	143	145	22	-	50
QF 50 - 9	MTSF 150	9.3	1138	-	744	-	1882	142	143	145	24	-	53
QF 50 - 10	MTSF 150	9.3	1234	-	744	-	1978	142	143	145	25	-	53
QF 50 - 11	MTSF 150	9.3	1330	-	744	-	2074	142	143	145	27	-	53
QF 50 - 12	MTSF 150	11.0	1426	-	774	-	2200	142	143	145	29	-	56
QF 50 - 13	MTSF 150	11.0	1522	-	774	-	2296	142	143	145	31	-	56
QF 50 - 14	MTSF 150	13.0	1618	-	824	-	2442	142	143	145	33	-	61
QF 50 - 15	MTSF 150	13.0	1714	-	824	-	2538	142	143	145	35	-	61
QF 50 - 16	MTSF 150	15.0	1810	-	869	-	2679	142	143	145	37	-	66
QF 50 - 17	MTSF 150	15.0	1906	-	869	-	2775	142	143	145	39	-	66
QF 50 - 18	MTSF 150	18.5	2002	-	914	-	2916	142	143	145	41	-	70
QF 50 - 19	MTSF 150	18.5	2098	-	914	-	3012	142	143	145	42	-	70
QF 50 - 20	MTSF 150	18.5	2194	-	914	-	3108	142	143	145	44	-	70
QF 50 - 21	MTSF 150	18.5	2290	-	914	-	3204	142	143	145	46	-	70
QF 50 - 22	MTSF 150	22.0	2386	-	1004	-	3390	142	143	145	48	-	79
QF 50 - 23	MTSF 150	22.0	2482	-	1004	-	3486	142	143	145	50	-	79
QF 50 - 24	MTSF 150	22.0	2578	-	1004	-	3582	142	143	145	52	-	79
QF 50 - 25	MTSF 150	22.0	2674	-	1004	-	3678	142	143	145	54	-	79
QF 50 - 26	MTSF 150	22.0	2770	-	1004	-	3774	142	143	145	56	-	79
QF 50 - 27	MTSF 150	26.0	2866	-	1109	-	3975	142	143	145	58	-	90
QF 50 - 28	MTSF 150	26.0	2962	-	1109	-	4071	142	143	145	59	-	90
QF 50 - 29	MTSF 150	26.0	3058	-	1109	-	4167	142	143	145	61	-	90
QF 50 - 30	MTSF 150	26.0	3154	-	1109	-	4263	142	143	145	63	-	90
QF 50 - 31	MTSF 150	26.0	3250	-	1109	-	4359	142	143	145	65	-	90
QF 50 - 32	MTSF 150	30.0	3346	-	1209	-	4555	142	143	145	67	-	100
QF 50 - 33	MTSF 150	30.0	3442	-	1209	-	4651	142	143	145	69	-	100
QF 50 - 34	MTSF 150	30.0	3538	-	1209	-	4747	142	143	145	71	-	100
QF 50 - 35	MTSF 150	30.0	3634	-	1209	-	4843	142	143	145	73	-	100
QF 50 - 31	MTSF 200	26.0	3278	-	-	-	-	195	195	195	65	-	-
QF 50 - 32	MTSF 200	30.0	3374	-	1140	-	4514	195	195	195	67	-	172
QF 50 - 33	MTSF 200	30.0	3470	-	1140	-	4610	195	195	195	69	-	172
QF 50 - 34	MTSF 200	30.0	3566	-	1140	-	4706	195	195	195	71	-	172
QF 50 - 35	MTSF 200	30.0	3662	-	1140	-	4802	195	195	195	73	-	172
QF 50 - 39	MTSF 200	37.0	4046	-	1140	-	5186	195	195	195	80	-	172
QF 50 - 43	MTSF 200	37.0	4430	-	1140	-	5570	195	195	195	88	-	172
QF 50 - 46	MTSF 200	45.0	4718	-	1230	-	5948	195	195	195	93	-	188
QF 50 - 49	MTSF 200	45.0	5006	-	1230	-	6236	195	195	195	99	-	188
QF 50 - 52	MTSF 200	55.0	5294	-	1340	-	6634	195	195	195	105	-	211
QF 50 - 54	MTSF 200	55.0	5486	-	1340	-	6826	195	195	195	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.

PERFORMANCE TABLE QF 50



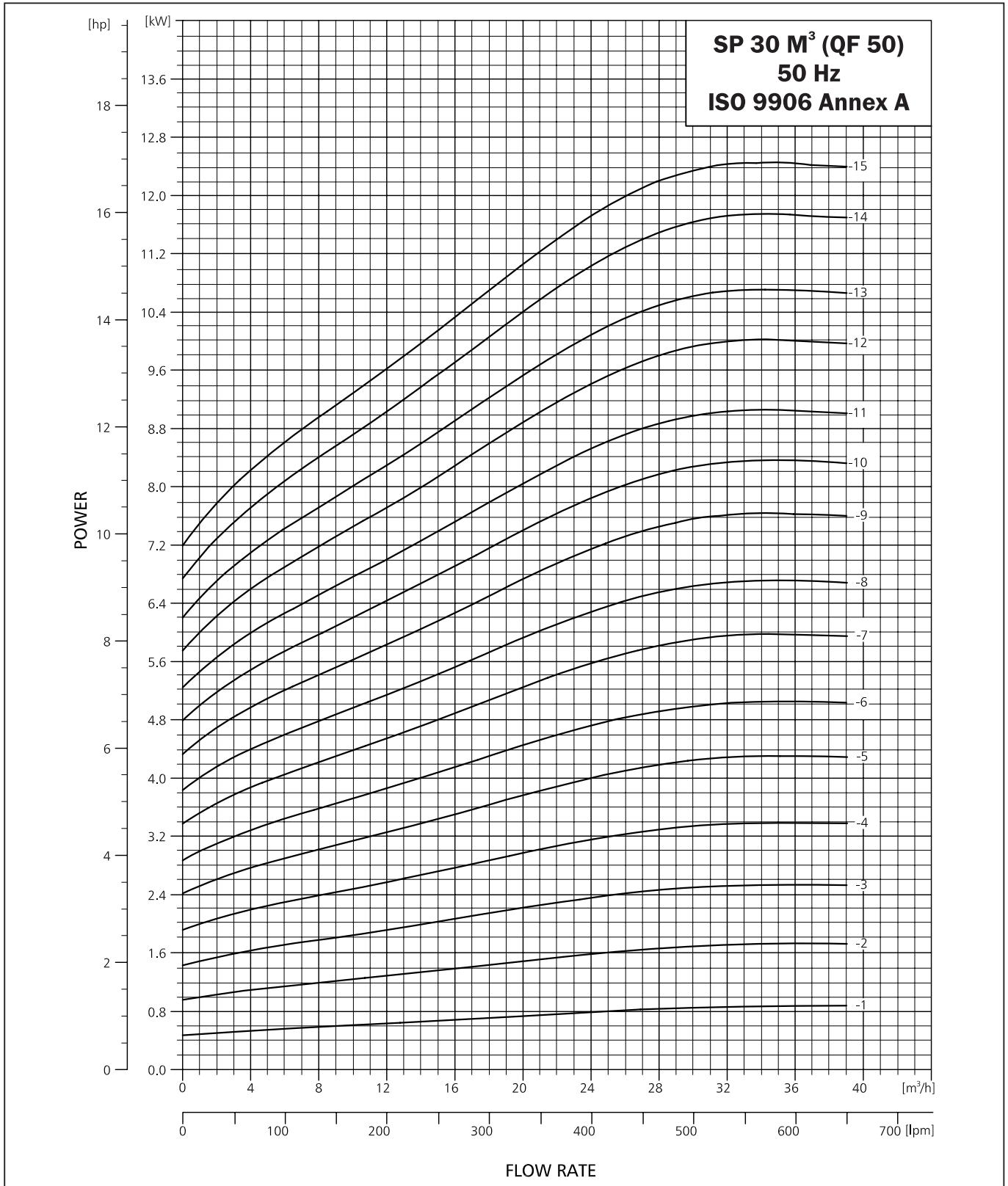
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SUBMERSIBLE PUMPS QF50

PERFORMANCE TABLE QF 50												
QF-50		DISCHARGE (Q)										
		m ³ /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	MOTOR RATING		TOTAL HEAD IN [m]									
	[KW]	[HP]										
QF 50 - 1	1.1	1.5	11	11	11	10	10	9	8	7	6	3
QF 50 - 2	2.2	3	23	23	23	21	20	19	17	16	13	8
QF 50 - 3	3	4	35	35	33	32	30	28	26	24	20	12
QF 50 - 4	4	5.5	46	46	45	43	40	38	35	32	27	16
QF 50 - 5	5.5	7.5	58	58	56	54	51	48	45	41	35	22
QF 50 - 6	5.5	7.5	69	69	67	64	60	57	53	48	41	25
QF 50 - 7	7.5	10	80	81	79	75	71	67	63	57	49	31
QF 50 - 8	7.5	10	91	92	89	85	80	76	71	64	55	34
QF 50 - 9	9.3	12.5	103	104	101	96	91	86	80	73	63	39
QF 50 - 10	9.3	12.5	114	115	111	106	100	95	88	80	69	43
QF 50 - 11	9.3	12.5	125	125	122	116	110	103	96	87	75	46
QF 50 - 12	11	15	137	137	134	127	121	114	106	97	83	51
QF 50 - 13	11	15	148	148	144	137	130	122	114	103	89	55
QF 50 - 14	13	17.5	160	161	156	149	141	133	125	113	98	61
QF 50 - 15	13	17.5	171	171	167	159	150	142	132	120	104	64
QF 50 - 16	15	20	183	184	179	171	162	153	143	130	112	70
QF 50 - 17	15	20	194	195	189	180	171	161	151	137	118	74
QF 50 - 18	18.5	25	207	208	202	193	183	173	163	148	129	82
QF 50 - 19	18.5	25	218	219	213	203	193	182	171	156	135	85
QF 50 - 20	18.5	25	229	230	223	213	202	191	179	163	141	89
QF 50 - 21	18.5	25	240	241	234	223	212	200	187	170	147	92
QF 50 - 22	22	30	252	253	246	235	223	211	198	180	156	99
QF 50 - 23	22	30	263	264	257	245	233	220	206	188	162	102
QF 50 - 24	22	30	274	275	268	255	242	228	214	195	168	105
QF 50 - 25	22	30	285	286	278	265	251	237	221	201	174	108
QF 50 - 26	22	30	296	297	288	275	260	245	229	208	179	111
QF 50 - 27	26	35	309	310	302	288	274	259	242	221	191	121
QF 50 - 28	26	35	320	321	313	298	283	267	250	228	197	124
QF 50 - 29	26	35	331	332	323	308	292	276	258	235	203	127
QF 50 - 30	26	35	342	343	333	318	301	284	266	242	209	130
QF 50 - 31	26	35	353	354	344	328	310	293	274	249	215	133
QF 50 - 32	30	40	367	368	358	342	324	306	287	262	227	143
QF 50 - 33	30	40	378	379	369	352	334	315	295	269	232	146
QF 50 - 34	30	40	389	390	379	362	343	324	303	276	238	149
QF 50 - 35	30	40	399	401	390	372	352	332	310	283	244	152
QF 50 - 39	37	50	445	447	435	416	395	374	351	320	278	176
QF 50 - 43	37	50	489	491	478	456	433	409	383	350	303	190
QF 50 - 46	45	60	531	535	521	499	475	451	424	389	341	220
QF 50 - 49	45	60	565	568	554	530	504	478	450	413	361	233

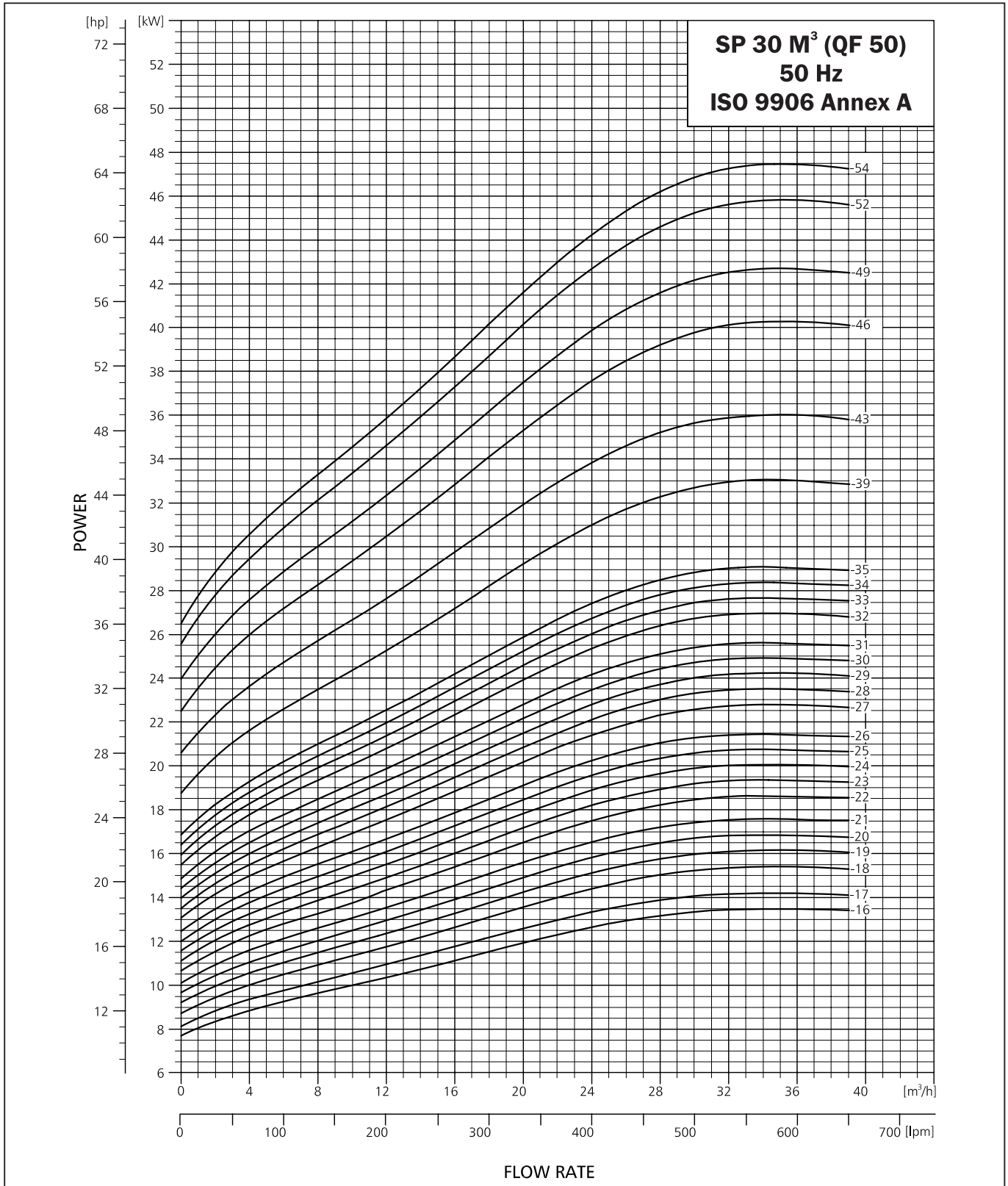
PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF50



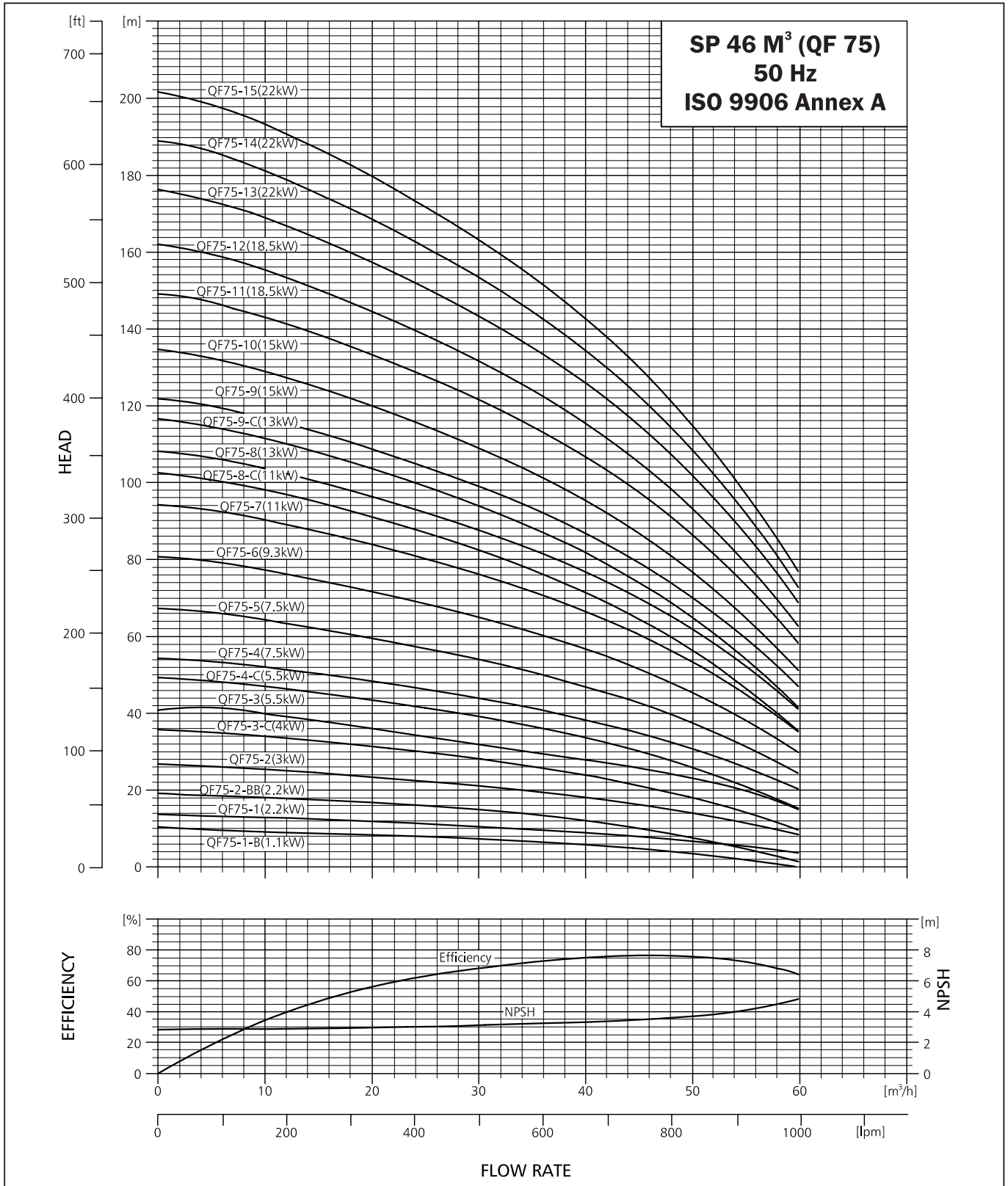
PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF50

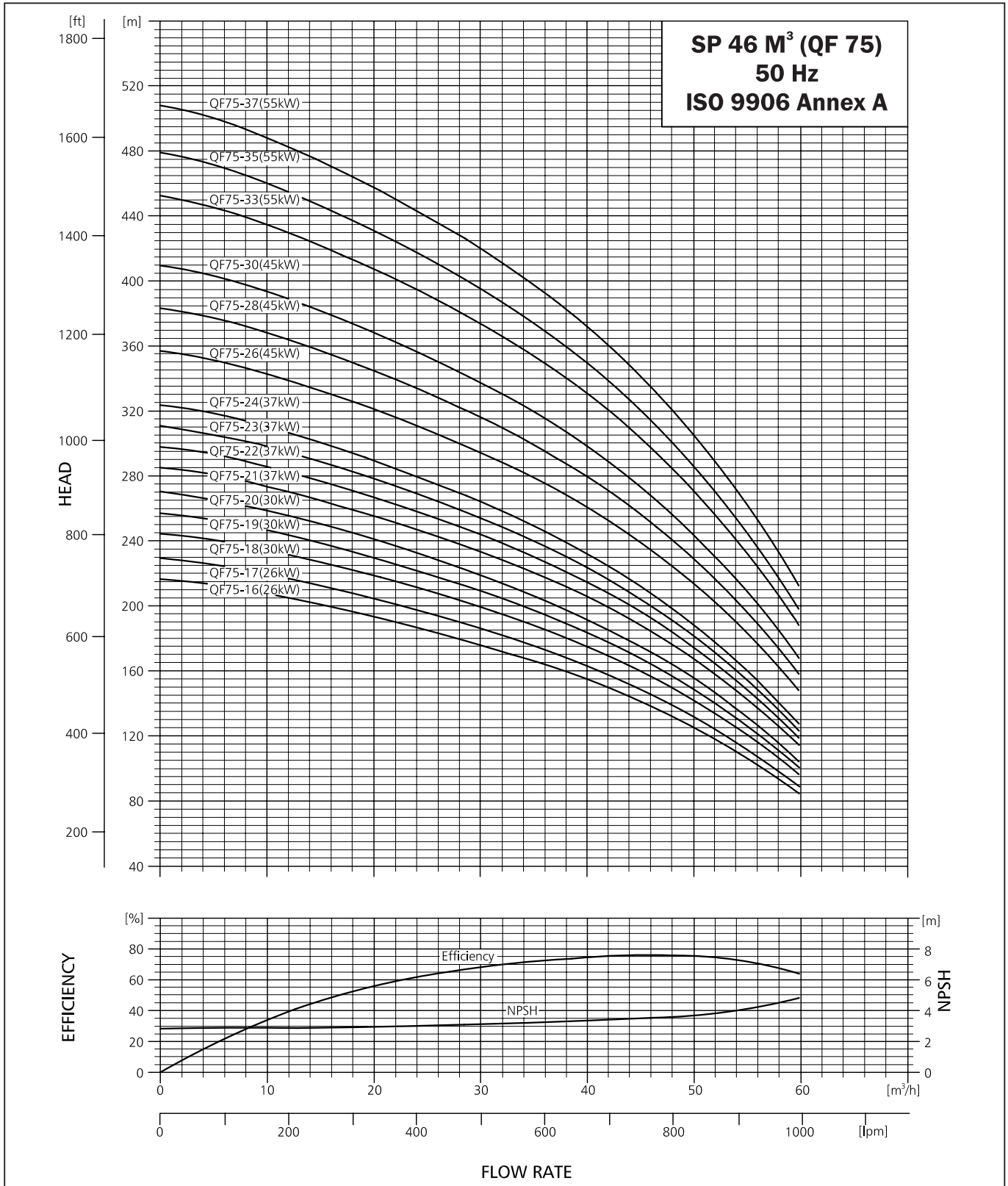


PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF75



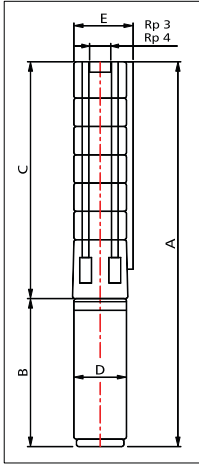
SUBMERSIBLE PUMPS QF75



TECHNICAL DATA QF 75

DIMENSIONS & WEIGHTS

SUBMERSIBLE PUMPS QF75



E= Max. Dia of Pump inclusive of cable guard & motor.
 QF 75-26 to QF 75-37 are mounted in sleeve for R 4" connection.

TECHNICAL DATA QF 75														
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 75 -1-B	RO 100	1.1	772	390	150	-	772	390	150	-	382	-	6	-
QF 75 -1	RO 100	2.2	-	390	150	-	-	390	150	-	-	-	6	-
QF 75 -2-BB	RO 100	2.2	-	503	150	-	-	503	150	-	-	-	8	-
QF 75 -1	RO 101	2.2	870	390	150	-	870	390	150	-	480	-	6	-
QF 75 -2-BB	RO 101	2.2	983	503	150	-	983	503	150	-	480	-	8	-
QF 75 -2	RO 101	3.0	1050	503	150	-	1050	503	150	-	547	-	8	-
QF 75 -3-C	RO 101	4.0	1239	616	150	-	1239	616	150	-	623	-	11	-
QF 75 -3	RO 101	5.5	1353	616	150	-	1353	616	150	-	737	-	11	-
QF 75 -4-C	RO 101	5.5	1466	729	150	-	1466	729	150	-	737	-	13	-
QF 75 -4	RO 101	7.5	1543	729	150	-	1543	729	150	-	814	-	13	-
QF 75 -5	RO 101	7.5	1656	842	150	-	1656	842	150	-	814	-	15	-
QF 75 -3-C	MTSF 150	4.0	1310	616	150	155	1310	616	150	155	694	142	11	48
QF 75 -3	MTSF 150	5.5	1310	616	150	155	1310	616	150	155	694	142	11	48
QF 75 -4-C	MTSF 150	5.5	1423	729	150	155	1423	729	150	155	694	142	13	48
QF 75 -4	MTSF 150	7.5	1443	729	150	155	1443	729	150	155	714	142	13	50
QF 75 -5	MTSF 150	7.5	1556	842	150	155	1556	842	150	155	714	142	15	50
QF 75 -6	MTSF 150	9.3	1699	955	150	155	1699	955	150	155	744	142	18	53
QF 75 -7	MTSF 150	11.0	1842	1068	150	155	1842	1068	150	155	774	142	20	56
QF 75 -8C	MTSF 150	11.0	1955	1181	150	155	1955	1181	150	155	774	142	22	56
QF 75 -8	MTSF 150	13.0	2005	1181	150	155	2005	1181	150	155	824	142	22	61
QF 75 -9C	MTSF 150	13.0	2118	1294	150	155	2118	1294	150	155	824	142	24	61
QF 75 -9	MTSF 150	15.0	2163	1294	150	155	2163	1294	150	155	869	142	24	66
QF 75 -10	MTSF 150	15.0	2276	1407	150	155	2276	1407	150	155	869	142	27	66
QF 75 -11	MTSF 150	18.5	2434	1520	150	155	2434	1520	150	155	914	142	29	70
QF 75 -12	MTSF 150	18.5	2547	1633	150	155	2547	1633	150	155	914	142	31	70
QF 75 -13	MTSF 150	22.0	2750	1746	150	155	2750	1746	150	155	1004	142	34	79
QF 75 -14	MTSF 150	22.0	2863	1859	150	155	2863	1859	150	155	1004	142	36	79
QF 75 -15	MTSF 150	22.0	2976	1972	150	155	2976	1972	150	155	1004	142	38	79
QF 75 -16	MTSF 150	26.0	3194	2085	150	155	3194	2085	150	155	1109	142	41	90
QF 75 -17	MTSF 150	26.0	3307	2198	150	155	3307	2198	150	155	1109	142	43	90
QF 75 -18	MTSF 150	30.0	3520	2311	150	155	3520	2311	150	155	1209	142	45	100
QF 75 -19	MTSF 150	30.0	3633	2424	150	155	3633	2424	150	155	1209	142	47	100
QF 75 -20	MTSF 150	30.0	3746	2537	150	155	3746	2537	150	155	1209	142	50	100
QF 75 -18	MTSF 200	30.0	3451	2311	195	195	3451	2311	195	195	1140	195	45	172
QF 75 -19	MTSF 200	30.0	3564	2424	195	195	3564	2424	195	195	1140	195	47	172
QF 75 -20	MTSF 200	30.0	3677	2537	195	195	3677	2537	195	195	1140	195	50	172
QF 75 -21	MTSF 200	37.0	3790	2650	195	195	3790	2650	195	195	1140	195	52	172
QF 75 -22	MTSF 200	37.0	3903	2763	195	195	3903	2763	195	195	1140	195	54	172
QF 75 -23	MTSF 200	37.0	4016	2876	195	195	4016	2876	195	195	1140	195	57	172
QF 75 -24	MTSF 200	37.0	4129	2989	195	195	4129	2989	195	195	1140	195	59	172
QF 75 -26	MTSF 200	45.0	-	-	195	195	4445	3215	195	195	1230	195	64	188
QF 75 -28	MTSF 200	45.0	-	-	195	195	4671	3441	195	195	1230	195	68	188
QF 75 -30	MTSF 200	45.0	-	-	195	195	4897	3667	195	195	1230	195	73	188
QF 75 -33	MTSF 200	55.0	-	-	195	195	5346	4006	195	195	1340	195	80	211
QF 75 -35	MTSF 200	55.0	-	-	195	195	5572	4232	195	195	1340	195	84	211
QF 75 -37	MTSF 200	55.0	-	-	195	195	5798	4458	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.

PERFORMANCE TABLE QF 75



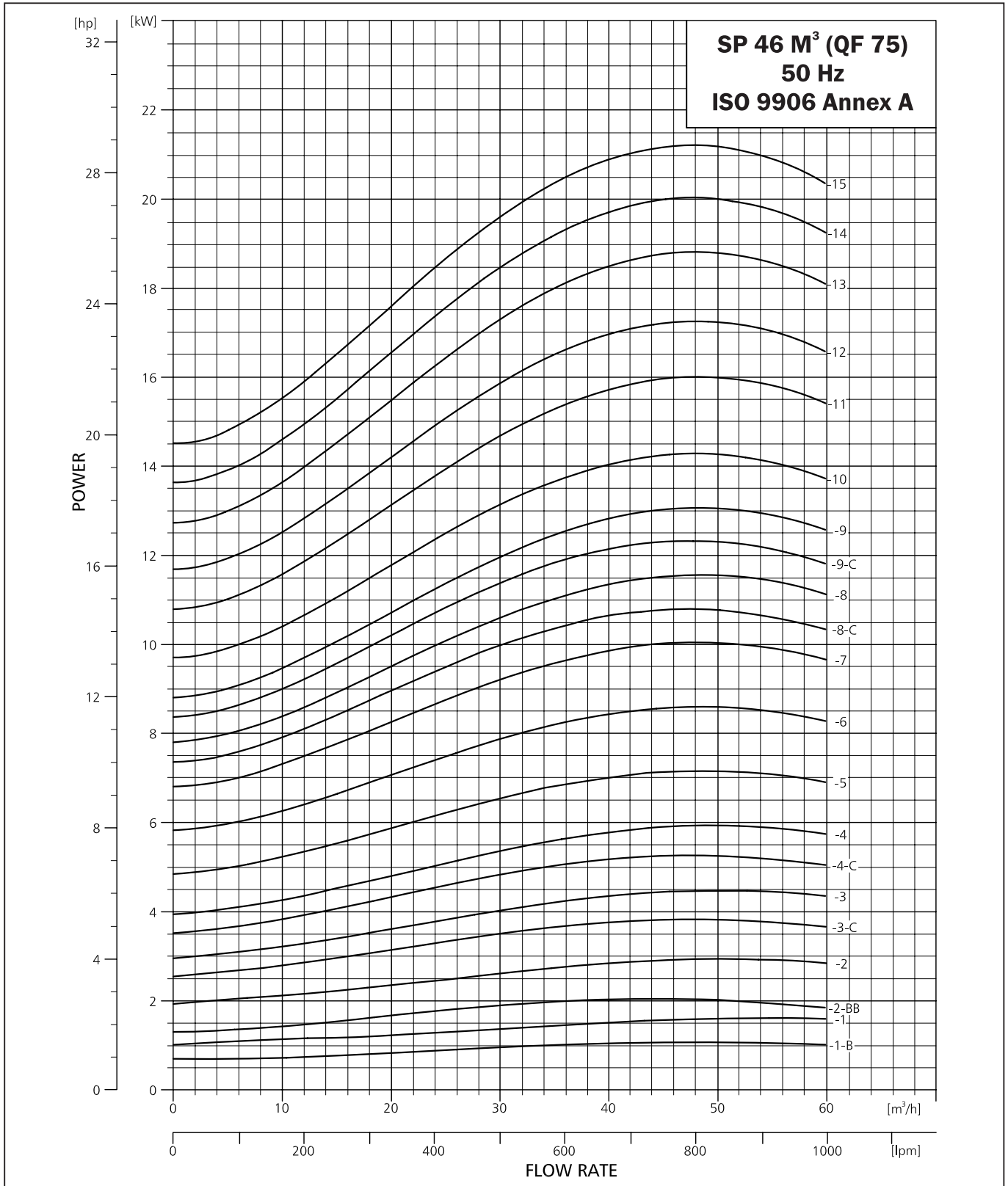
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SUBMERSIBLE PUMPS QF75

PERFORMANCE TABLE QF 75															
QF-75	DISCHARGE (Q)														
	m ³ /h	0	5	10	15	20	25	30	35	40	45	50	55	59.8	
	l/min.	0	83.3	166.7	250	333.3	416.7	500	583.3	666.7	750	833.3	916.7	996.7	
MODEL	MOTOR RATING		TOTAL HEAD IN [m]												
	[KW]	[HP]													
QF 75 - 2-BB	2.2	3	19	19	18	17	17	16	15	14	12	10	8	5	1
QF 75 - 2	3	4	27	26	25	24	23	22	21	20	18	16	14	11	9
QF 75 - 3-C	4	5.5	36	35	34	33	31	30	28	26	24	21	18	14	10
QF 75 - 3	5.5	7.5	41	41	40	38	36	34	32	30	28	26	23	20	15
QF 75 - 4-C	5.5	7.5	49	48	47	45	43	41	39	37	34	30	26	21	15
QF 75 - 4	7.5	10	54	53	52	50	48	46	44	41	38	35	31	26	20
QF 75 - 5	7.5	10	67	66	64	62	60	57	54	51	47	43	37	31	24
QF 75 - 6	9.3	12.5	81	79	77	75	72	68	65	61	57	51	45	38	30
QF 75 - 7	11	15	94	93	90	87	84	80	76	72	66	60	53	45	35
QF 75 - 8-C	11	15	103	101	98	95	91	87	82	77	71	64	56	46	36
QF 75 - 8	13	17.5	108	106	104	100	96	92	88	83	77	70	62	52	41
QF 75 - 9-C	13	17.5	117	115	112	108	104	99	94	88	82	74	65	54	42
QF 75 - 9	15	20	122	120	117	113	109	104	99	93	87	79	70	59	47
QF 75 - 10	15	20	135	132	129	125	120	115	109	103	95	87	77	65	51
QF 75 - 11	18.5	25	149	147	143	138	133	128	122	115	107	97	86	73	59
QF 75 - 12	18.5	25	162	159	155	150	145	138	132	124	115	105	93	79	63
QF 75 - 13	22	30	176	173	169	163	157	151	143	135	126	115	102	86	69
QF 75 - 14	22	30	189	186	181	175	169	161	153	144	134	122	108	92	73
QF 75 - 15	22	30	202	198	193	187	180	172	163	154	143	130	115	97	77
QF 75 - 16	26	35	217	213	208	201	193	185	176	166	155	141	125	106	85
QF 75 - 17	26	35	229	226	220	213	205	196	186	175	163	149	132	112	89
QF 75 - 18	30	40	244	241	234	227	219	209	199	188	175	160	142	121	97
QF 75 - 19	30	40	257	253	247	239	230	220	209	197	183	167	148	126	101
QF 75 - 20	30	40	270	265	259	251	241	230	219	206	192	175	155	132	105
QF 75 - 21	37	50	285	280	273	265	255	245	234	221	206	188	167	143	115
QF 75 - 22	37	50	298	293	286	277	267	256	244	230	215	196	174	148	119
QF 75 - 23	37	50	311	306	298	289	278	267	254	240	223	204	181	154	124
QF 75 - 24	37	50	324	318	310	300	289	277	264	249	232	212	188	160	128
QF 75 - 26	45	60	357	351	343	332	321	308	295	279	261	239	214	183	149
QF 75 - 28	45	60	383	377	368	357	345	331	316	299	280	256	229	196	159
QF 75 - 30	45	60	410	403	393	381	368	353	337	319	298	273	244	208	169
QF 75 - 33	55	75	452	445	435	422	407	391	374	354	331	303	271	232	189

PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF75

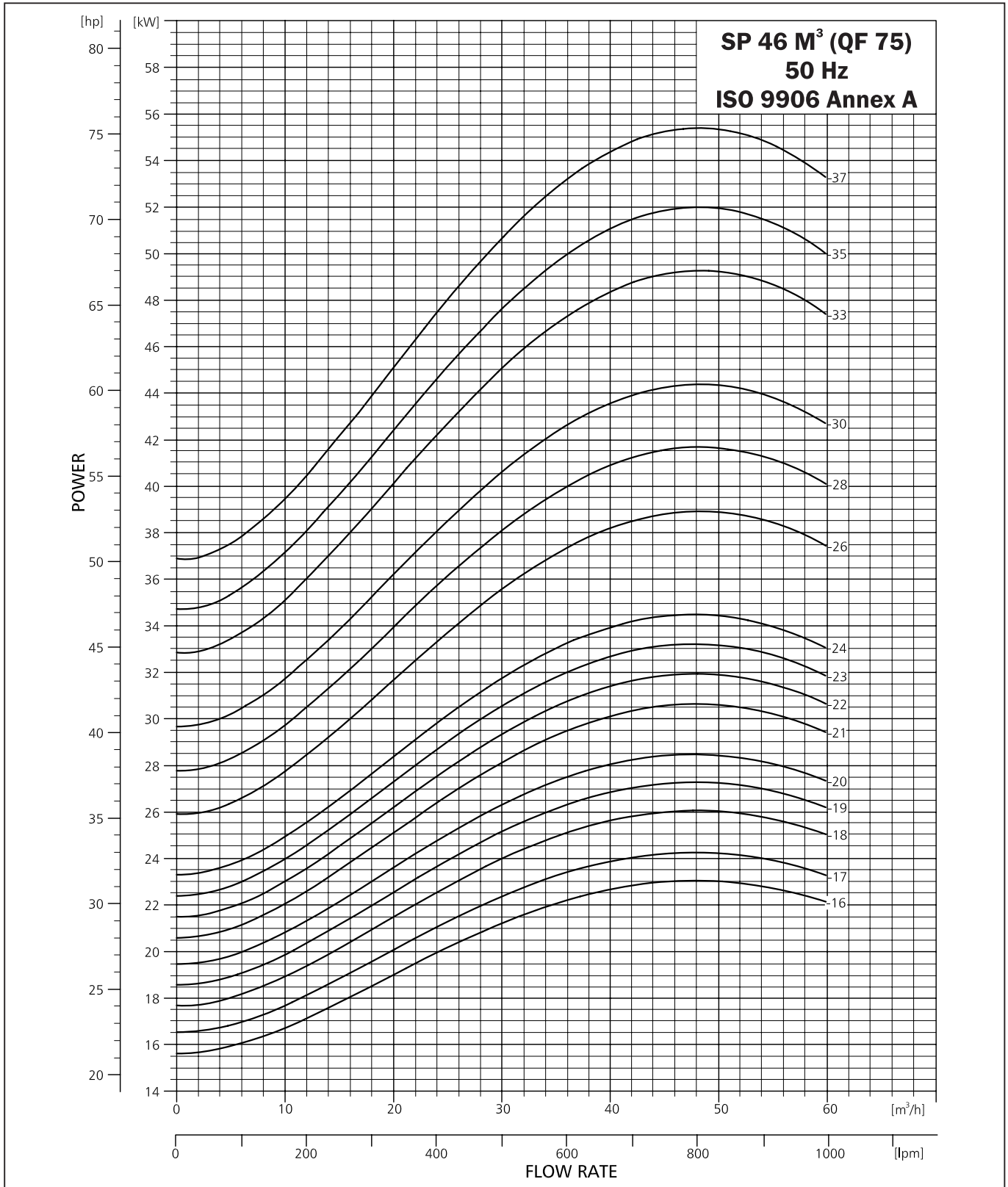


PERFORMANCE CURVE



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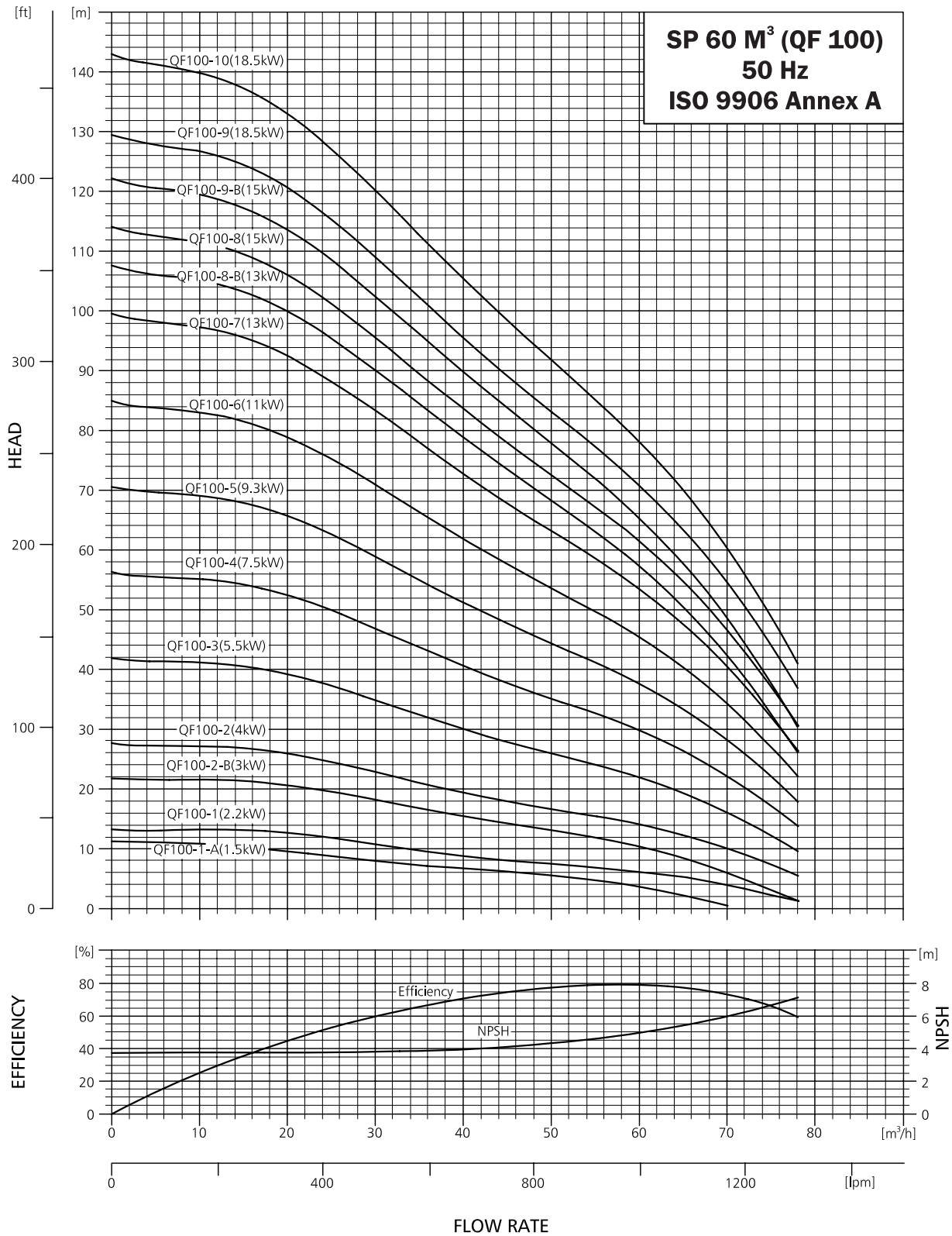
SUBMERSIBLE PUMPS QF75



PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF100

SP 60 M³ (QF 100)
50 Hz
ISO 9906 Annex A

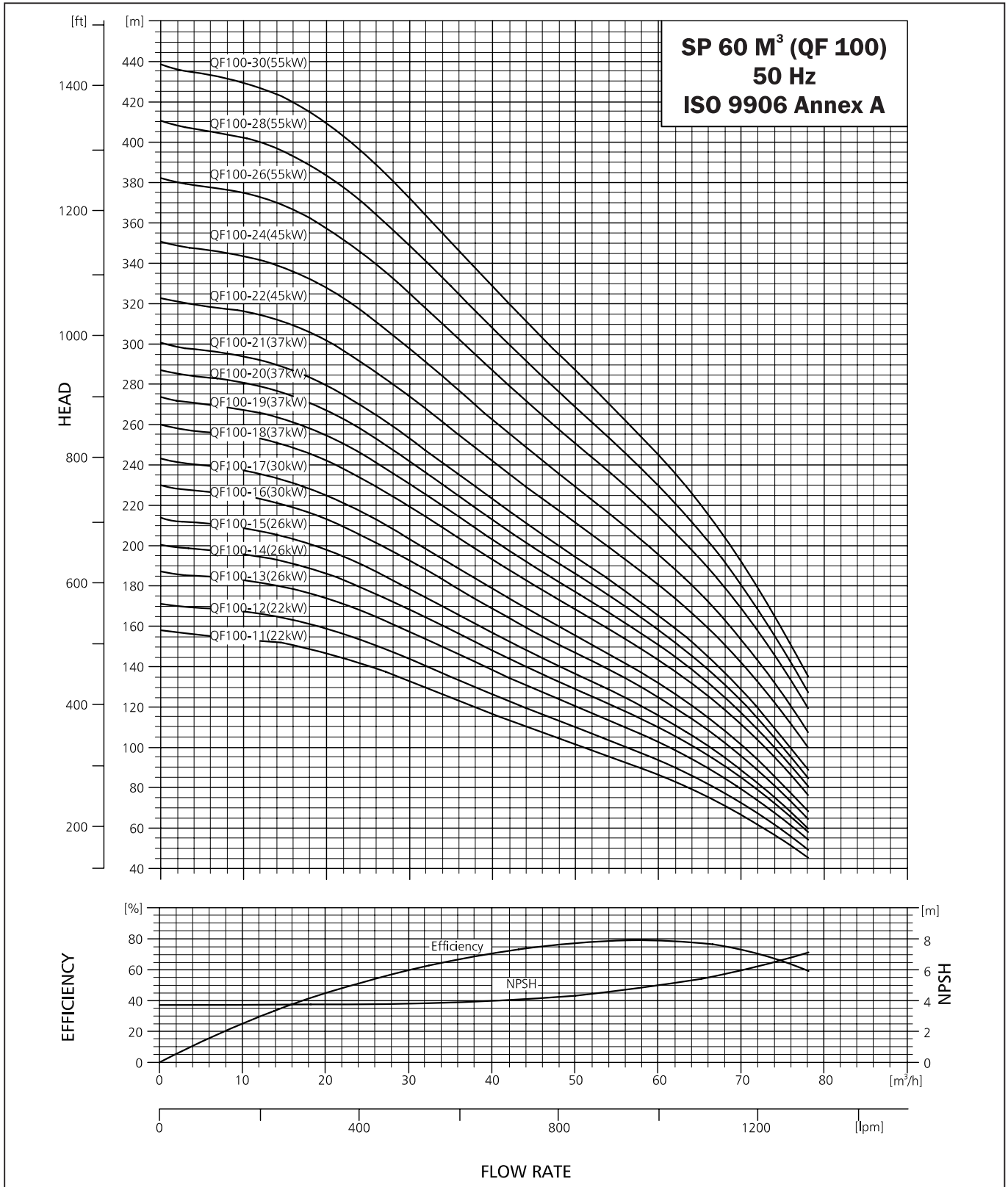


PERFORMANCE CURVE



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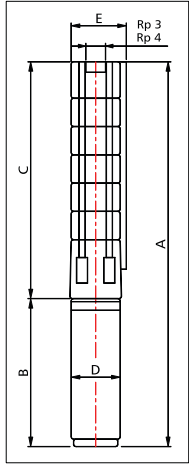
SUBMERSIBLE PUMPS QF100



TECHNICAL DATA QF 100

DIMENSIONS & WEIGHTS

SUBMERSIBLE PUMPS QF100



E= Max. Dia 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	RO 100	1.5	812	390	150	-	812	390	150	-	422	95	6	12
QF 100 - 1	RO 101	2.2	870	390	150	-	870	390	150	-	480	95	6	16
QF 100 - 2-B	RO 101	3.0	1050	503	150	-	1050	503	150	-	547	95	8	19
QF 100 - 2	RO 101	4.0	1126	503	150	-	1126	503	150	-	623	95	8	22
QF 100 - 3	RO 101	5.5	1353	616	150	-	1353	616	150	-	737	95	11	27
QF 100 - 4	RO 101	7.5	1543	729	150	-	1543	729	150	-	814	142	13	31
QF 100 - 3	MTSF 150	5.5	1310	616	150	155	1310	616	150	155	694	142	11	48
QF 100 - 4	MTSF 150	7.5	1443	729	150	155	1443	729	150	155	714	142	13	50
QF 100 - 5	MTSF 150	9.3	1586	842	150	155	1586	842	150	155	744	142	15	53
QF 100 - 6	MTSF 150	11.0	1729	955	150	155	1729	955	150	155	774	142	17	56
QF 100 - 7	MTSF 150	13.0	1892	1068	150	155	1892	1068	150	155	824	142	20	61
QF 100 - 8-B	MTSF 150	13.0	2005	1181	150	155	2005	1181	150	155	824	142	22	61
QF 100 - 8	MTSF 150	15.0	2050	1181	150	155	2050	1181	150	155	869	142	22	66
QF 100 - 9-B	MTSF 150	15.0	2163	1294	150	155	2163	1294	150	155	869	142	24	66
QF 100 - 9	MTSF 150	18.5	2208	1294	150	155	2208	1294	150	155	914	142	24	70
QF 100 - 10	MTSF 150	18.5	2321	1407	150	155	2321	1407	150	155	914	142	26	70
QF 100 - 11	MTSF 150	22.0	2524	1520	150	155	2524	1520	150	155	1004	142	29	79
QF 100 - 12	MTSF 150	22.0	2637	1633	150	155	2637	1633	150	155	1004	142	31	79
QF 100 - 13	MTSF 150	26.0	2855	1746	150	155	2855	1746	150	155	1109	142	33	90
QF 100 - 14	MTSF 150	26.0	2968	1859	150	155	2968	1859	150	155	1109	142	35	90
QF 100 - 15	MTSF 150	26.0	3081	1972	150	155	3081	1972	150	155	1109	142	38	90
QF 100 - 16	MTSF 150	30.0	3294	2085	150	155	3294	2085	150	155	1209	142	40	100
QF 100 - 17	MTSF 150	30.0	3407	2198	150	155	3407	2198	150	155	1209	142	42	100
QF 100 - 16	MTSF 200	30.0	3253	2113	195	195	3253	2113	195	195	1140	195	40	172
QF 100 - 17	MTSF 200	30.0	3366	2226	195	195	3366	2226	195	195	1140	195	42	172
QF 100 - 18	MTSF 200	37.0	3479	2339	195	195	3479	2339	195	195	1140	195	44	172
QF 100 - 19	MTSF 200	37.0	3592	2452	195	195	3592	2452	195	195	1140	195	47	172
QF 100 - 20	MTSF 200	37.0	3705	2565	195	195	3705	2565	195	195	1140	195	49	172
QF 100 - 21	MTSF 200	37.0	3818	2678	195	195	3818	2678	195	195	1140	195	51	172
QF 100 - 22	MTSF 200	45.0	4021	2791	195	195	4021	2791	195	195	1230	195	53	188
QF 100 - 24	MTSF 200	45.0	-	-	-	-	4219	2989	195	195	1230	195	58	188
QF 100 - 26	MTSF 200	55.0	-	-	-	-	4555	3215	195	195	1340	195	62	211
QF 100 - 28	MTSF 200	55.0	-	-	-	-	4781	3441	195	195	1340	195	67	211
QF 100 - 30	MTSF 200	55.0	-	-	-	-	5007	3667	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.

PERFORMANCE TABLE QF 100



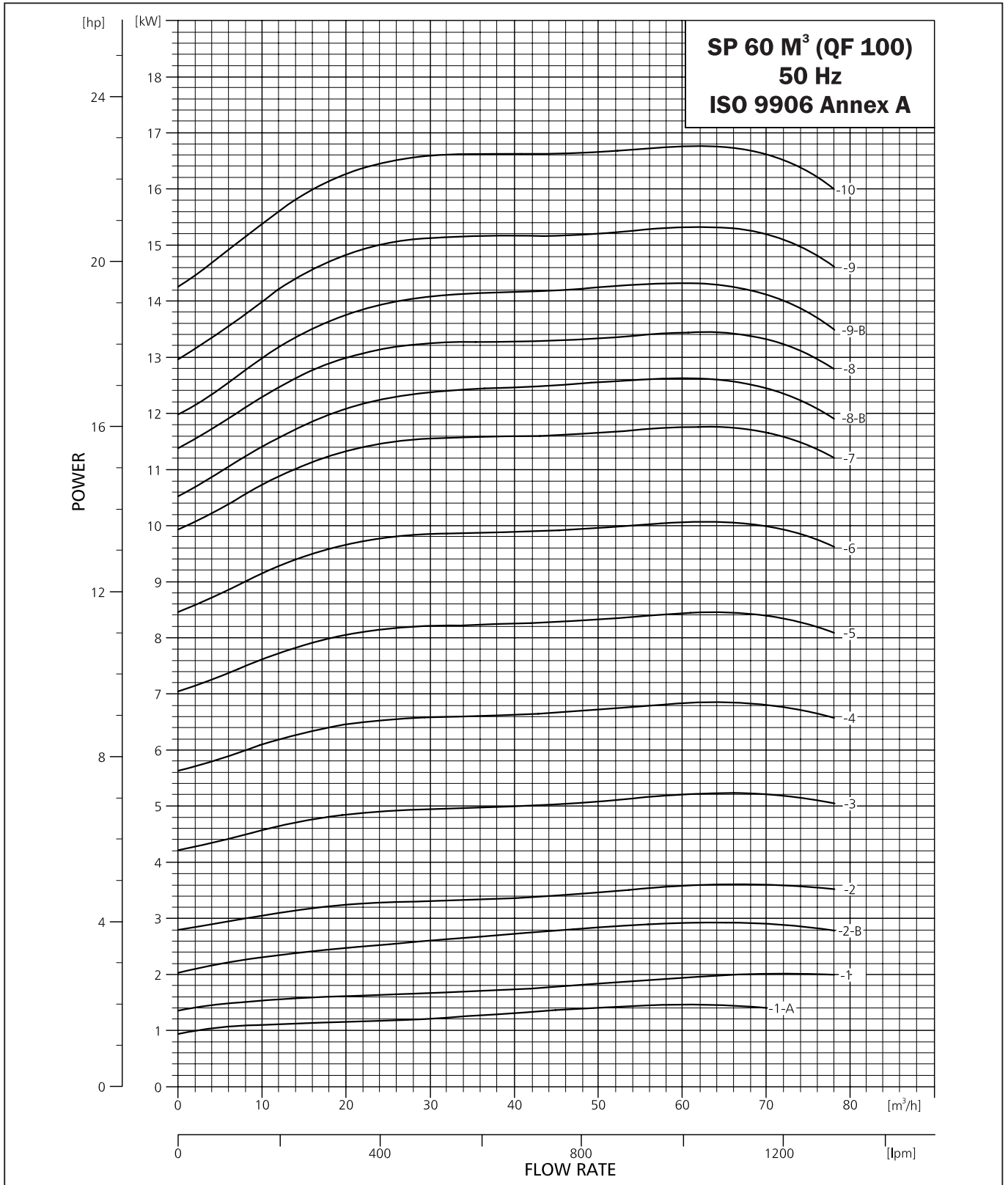
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SUBMERSIBLE PUMPS QF100

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	MOTOR RATING		TOTAL HEAD IN [m]								
	[KW]	[HP]									
QF 100 1-A	1.5	2	12	11	10	8	6	5	4	1	0
QF 100 - 1	2.2	3	14	14	13	12	11	10	8	6	5
QF 100 -2-B	3	4	22	22	21	18	15	13	10	6	1
QF 100 -2	4	5.5	28	27	26	23	19	17	14	10	5
QF 100 -3	5.5	7.5	42	41	39	35	30	26	22	16	10
QF 100 -4	7.5	10	56	55	52	47	41	35	30	22	14
QF 100 -5	9.3	12.5	71	69	66	59	51	44	38	28	18
QF 100 -6	11	15	85	83	79	71	62	54	45	34	22
QF 100 -7	13	17.5	99	97	92	83	73	63	53	40	26
QF 100 -8-B	13	17.5	108	105	100	90	79	68	57	42	26
QF 100 -8	15	20	114	112	106	96	84	73	61	47	31
QF 100 -9-B	15	20	122	119	113	102	90	78	65	48	30
QF 100 -9	18.5	25	129	127	121	109	95	83	71	54	37
QF 100 -10	18.5	25	143	140	133	120	105	92	78	60	41
QF 100 -11	22	30	158	154	147	133	116	101	86	67	45
QF 100 -12	22	30	171	167	159	144	126	110	94	72	50
QF 100 -13	26	35	187	183	174	157	138	120	103	79	54
QF 100 -14	26	35	200	196	186	168	148	129	110	85	58
QF 100 -15	26	35	214	209	198	179	157	136	116	89	60
QF 100 -16	30	40	230	224	213	192	169	147	125	96	65
QF 100 -17	30	40	243	237	225	203	179	155	132	101	69
QF 100 -18	37	50	260	254	242	219	193	168	143	111	77
QF 100 -19	37	50	274	268	255	231	203	177	151	117	81
QF 100 -20	37	50	287	281	267	242	213	186	158	123	85
QF 100 -21	37	50	301	294	279	253	223	194	166	129	89
QF 100 -22	45	60	323	316	302	274	242	211	181	142	100

PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF100

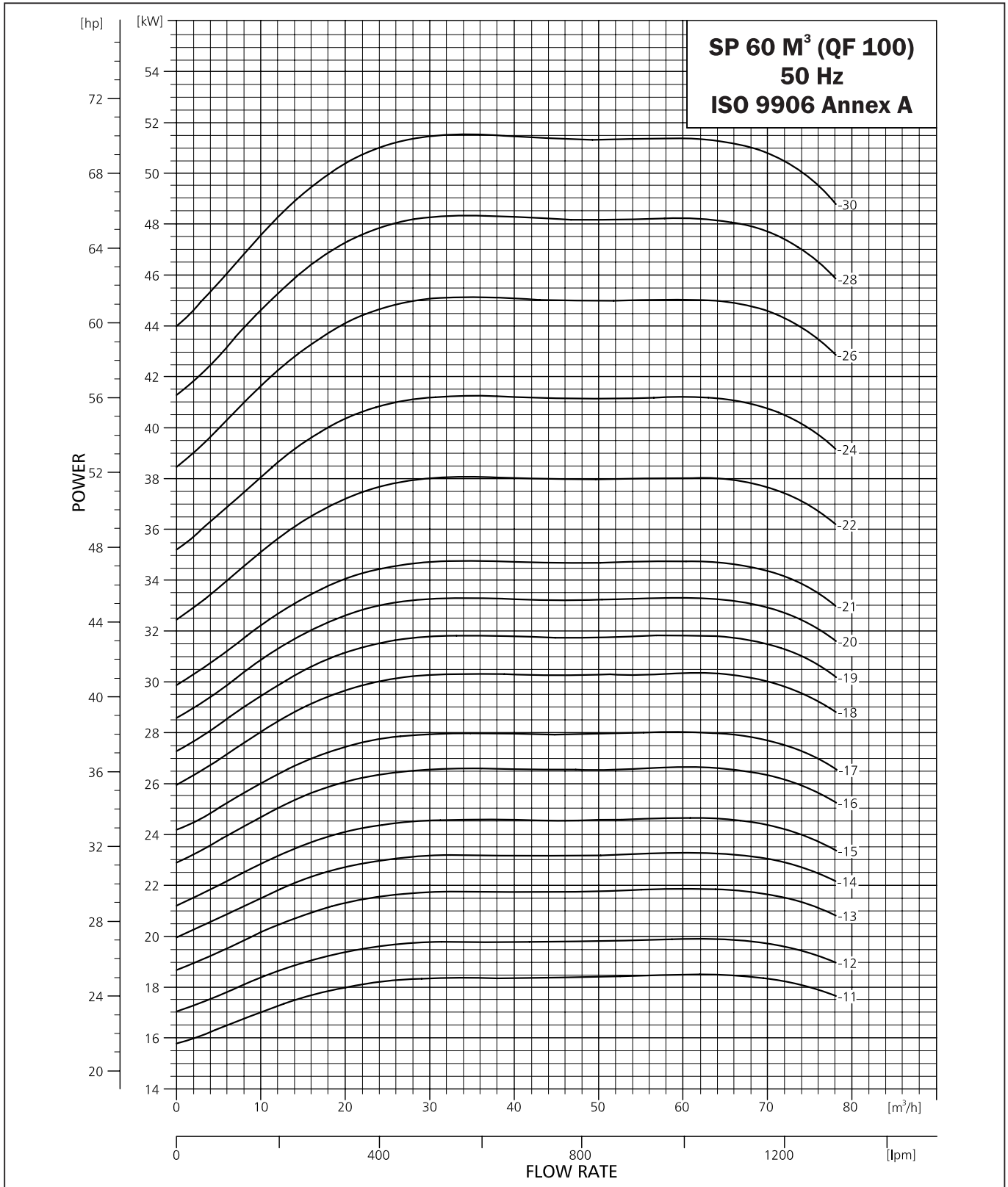


PERFORMANCE CURVE



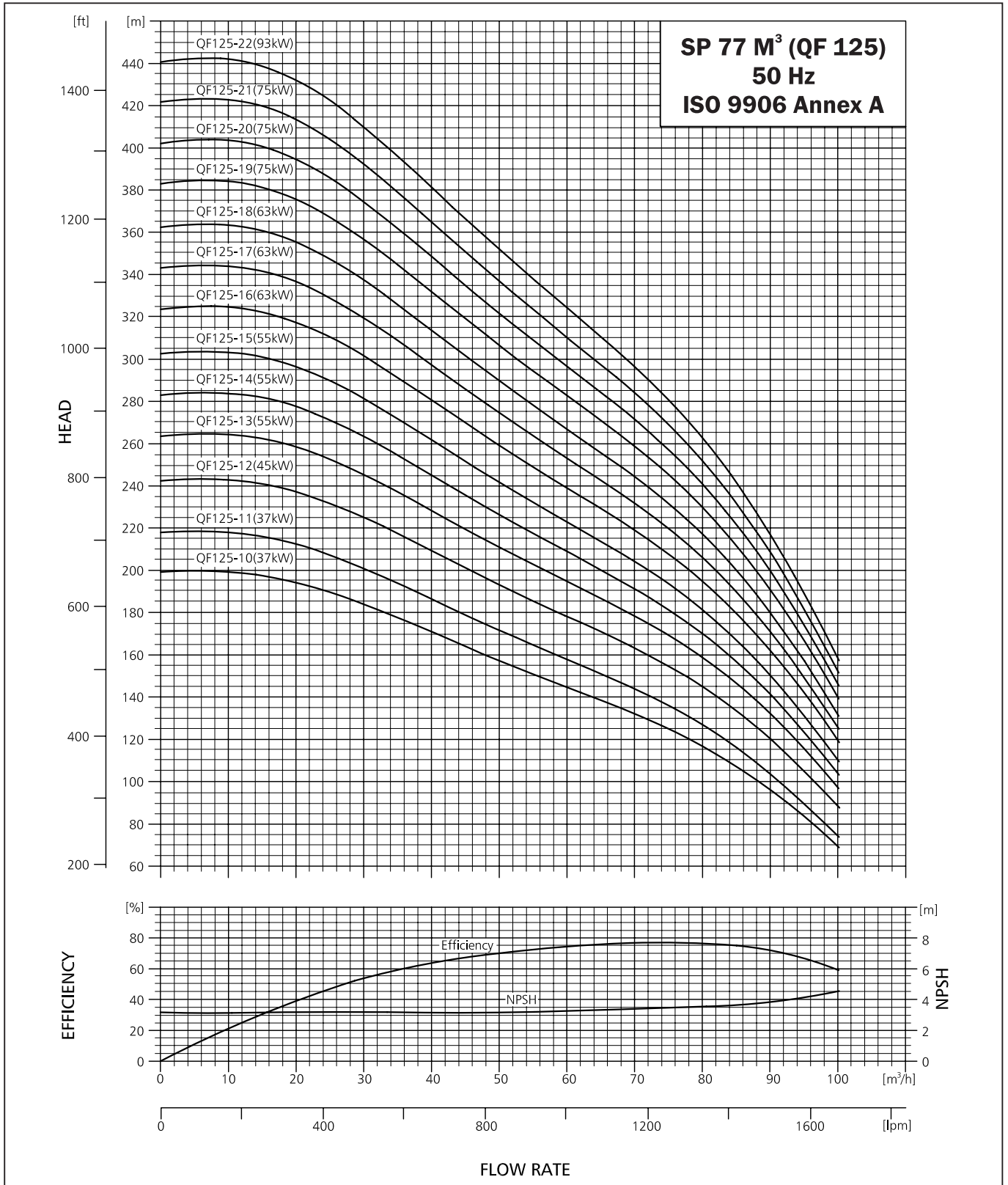
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SUBMERSIBLE PUMPS QF100



PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF125

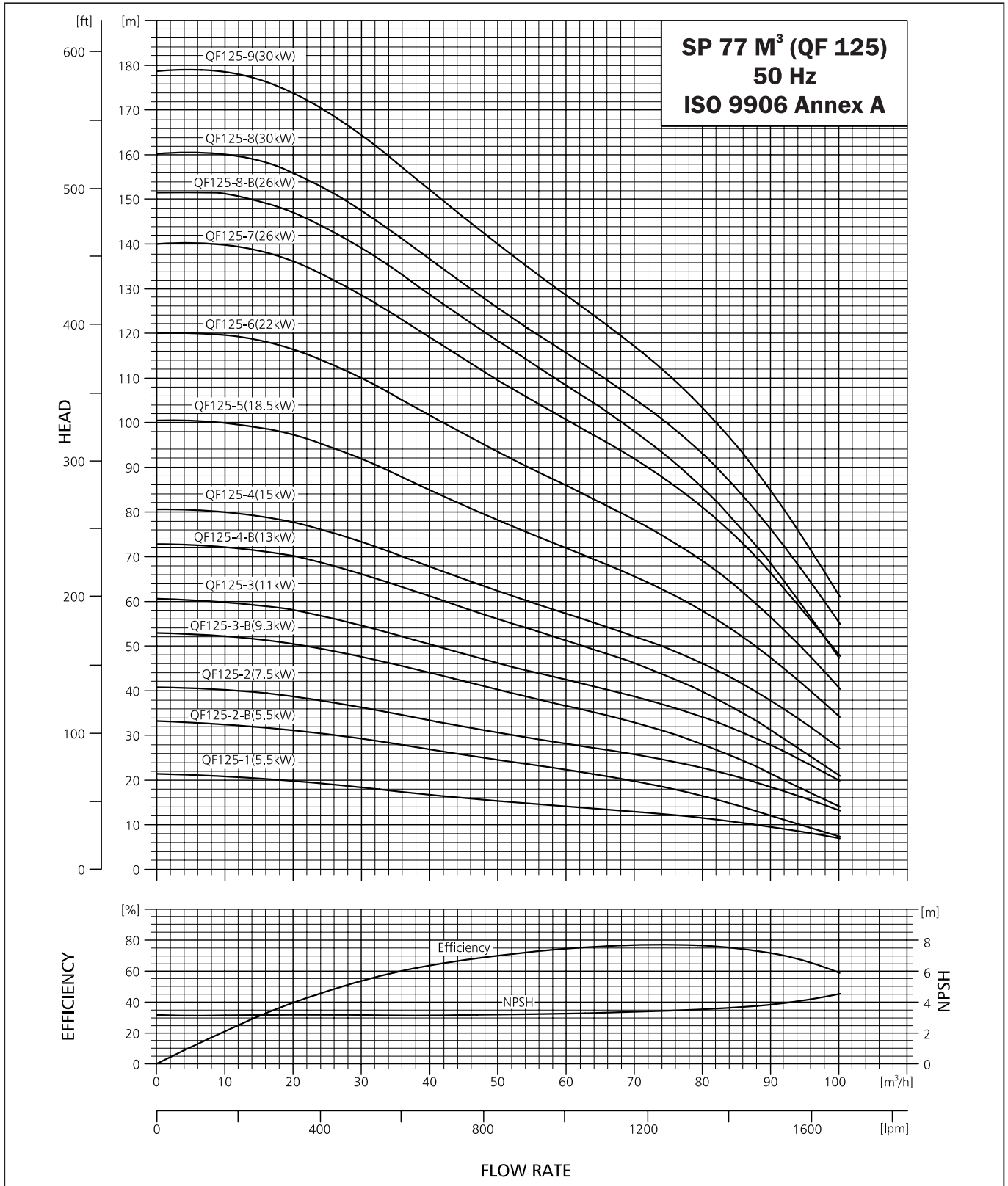


PERFORMANCE CURVE



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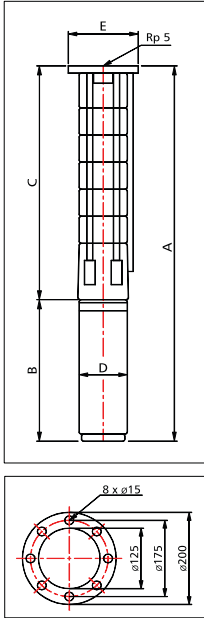
SUBMERSIBLE PUMPS QF125



TECHNICAL DATA QF 125

DIMENSIONS & WEIGHTS

SUBMERSIBLE PUMPS QF125



TECHNICAL DATA QF 125														
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 125 - 1	RO 101	5.5	1350	619	178	186	1350	619	200	200	731	95	21	45
QF 125 - 2-B	RO 101	5.5	1478	747	178	186	1478	747	200	200	731	95	24	49
QF 125 - 2	RO 101	7.5	1555	747	178	186	1555	747	200	200	808	95	24	54
QF 125 - 1	MTSF 150	5.5	1313	619	178	186	1313	619	200	200	694	142	21	48
QF 125 - 2-B	MTSF 150	5.5	1441	747	178	186	1441	747	200	200	694	142	24	48
QF 125 - 2	MTSF 150	7.5	1461	747	178	186	1461	747	200	200	714	142	24	50
QF 125 - 3-B	MTSF 150	9.3	1619	875	178	186	1619	875	200	200	744	142	28	53
QF 125 - 3	MTSF 150	11.0	1649	875	178	186	1649	875	200	200	774	142	28	56
QF 125 - 4-B	MTSF 150	13.0	1827	1003	178	186	1827	1003	200	200	824	142	31	61
QF 125 - 4	MTSF 150	15.0	1872	1003	178	186	1872	1003	200	200	869	142	31	66
QF 125 - 5	MTSF 150	18.5	2045	1131	178	186	2045	1131	200	200	914	142	35	70
QF 125 - 6	MTSF 150	22.0	2263	1259	178	186	2263	1259	200	200	1004	142	38	79
QF 125 - 7	MTSF 150	26.0	2496	1387	178	186	2496	1387	200	200	1109	142	42	90
QF 125 - 8-B	MTSF 150	26.0	2624	1515	178	186	2624	1515	200	200	1109	142	46	90
QF 125 - 8	MTSF 150	30.0	2724	1515	178	186	2724	1515	200	200	1209	142	46	100
QF 125 - 9	MTSF 150	30.0	2855	1643	178	186	2855	1643	200	200	1212	142	49	100
QF 125 - 8	MTSF 200	30.0	2669	1529	200	205	2669	1529	210	210	1140	195	46	140
QF 125 - 9	MTSF 200	30.0	2797	1657	200	205	2797	1657	210	210	1140	195	50	140
QF 125 - 10	MTSF 200	37.0	2925	1785	200	205	2925	1785	210	210	1140	195	53	140
QF 125 - 11	MTSF 200	37.0	3053	1913	200	205	3053	1913	210	210	1140	195	57	140
QF 125 - 12	MTSF 200	45.0	3271	2041	200	205	3271	2041	210	210	1230	195	60	156
QF 125 - 13	MTSF 200	55.0	3509	2169	200	205	3509	2169	210	210	1340	195	64	179
QF 125 - 14	MTSF 200	55.0	3637	2297	200	205	3637	2297	210	210	1340	195	68	179
QF 125 - 15	MTSF 200	55.0	3765	2425	200	205	3765	2425	210	210	1340	195	71	179
QF 125 - 16	MTSF 200	63.0	4023	2553	200	205	4023	2553	210	210	1470	195	75	198
QF 125 - 17	MTSF 200	63.0	4151	2681	200	205	4151	2681	210	210	1470	195	78	198
QF 125 - 18	MTSF 200	63.0	4279	2809	200	205	4279	2809	210	210	1470	195	82	198
QF 125 - 19	MTSF 200	75.0	4497	2937	200	205	4497	2937	210	210	1560	195	85	215
QF 125 - 20	MTSF 200	75.0	4625	3065	200	205	4625	3065	210	210	1560	195	89	215
QF 125 - 21	MTSF 200	75.0	4753	3193	200	205	4753	3193	210	210	1560	195	93	215
QF 125 - 22	MTSF 200	93.0	5061	3321	200	205	5061	3321	210	210	1740	195	96	247

* 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 125



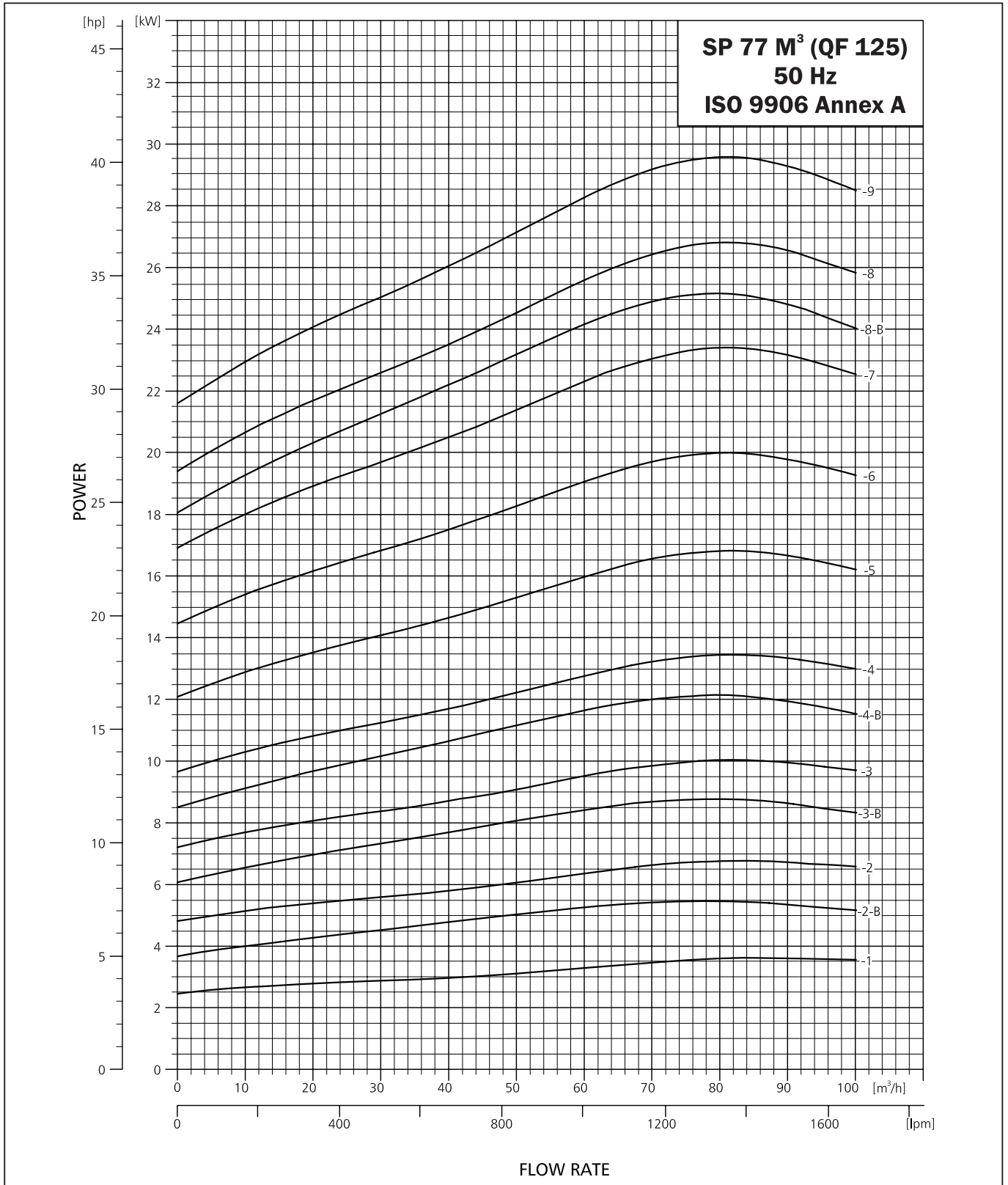
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SUBMERSIBLE PUMPS QF125

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	333.0	500	666.7	833.3	1000	1166.7	1333.3	1500	1666.7
MODEL	MOTOR RATING		TOTAL HEAD IN [m]											
	[KW]	[HP]												
QF 125 - 1	5.5	7.5	21	21	20	18	17	15	14	13	12	10	7	
QF 125 - 2-B	5.5	7.5	33	32	31	29	27	25	22	20	16	12	7	
QF 125 - 2	7.5	10	41	40	39	36	33	31	28	26	23	18	13	
QF 125 - 3-B	9.3	125	53	52	51	48	44	40	37	33	28	22	14	
QF 125 - 3	11	15	61	60	58	55	50	46	42	39	34	28	20	
QF 125 - 4-B	13	18	73	72	70	66	61	56	51	46	40	31	21	
QF 125 - 4	15	20	81	80	78	73	68	62	57	52	46	38	27	
QF 125 - 5	18.5	25	100	100	97	92	85	78	72	66	58	47	34	
QF 125 - 6	22	30	120	120	116	110	102	94	86	78	69	56	41	
QF 125 - 7	26	35	140	140	136	129	119	110	101	92	81	66	48	
QF 125 - 8-B	26	35	152	151	147	139	129	118	108	98	85	68	48	
QF 125 - 8	30	40	160	160	156	147	137	126	116	105	93	76	55	
QF 125 - 9	30	40	179	179	174	164	152	140	129	117	103	85	61	
QF 125 - 10	37	50	199	199	194	184	171	157	145	132	117	96	69	
QF 125 - 11	37	50	218	218	212	201	186	172	158	144	127	104	74	
QF 125 - 12	45	60	242	243	237	225	209	193	178	163	145	120	88	
QF 125 - 13	55	75	264	264	258	245	228	211	195	178	159	132	98	
QF 125 - 14	55	75	283	284	277	263	245	226	209	191	170	141	104	
QF 125 - 15	55	75	303	303	296	281	262	242	223	204	181	150	110	
QF 125 - 16	63	85	324	325	317	301	281	259	239	219	195	162	119	
QF 125 - 17	63	85	343	344	336	319	297	274	253	232	206	171	126	
QF 125 - 18	63	85	363	363	355	337	314	290	267	244	217	180	132	
QF 125 - 19	75	100	383	384	376	357	332	307	283	259	230	191	140	
QF 125 - 20	75	100	402	404	395	375	349	322	297	271	241	200	146	
QF 125 - 21	75	100	422	424	415	394	366	338	312	285	253	210	153	
QF 125 - 22	93	125	442	444	435	413	384	354	327	298	265	220	161	

PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF125

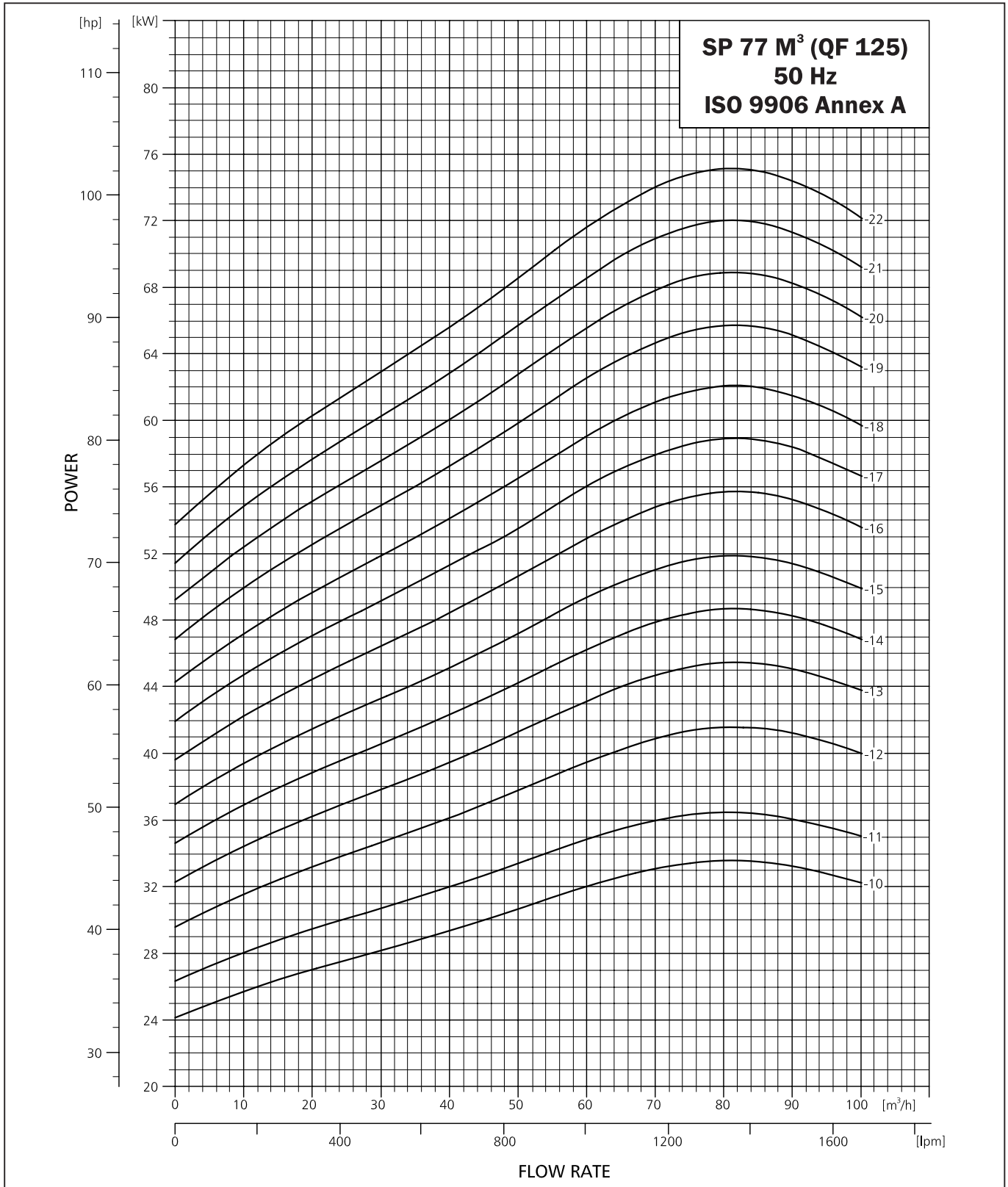


PERFORMANCE CURVE



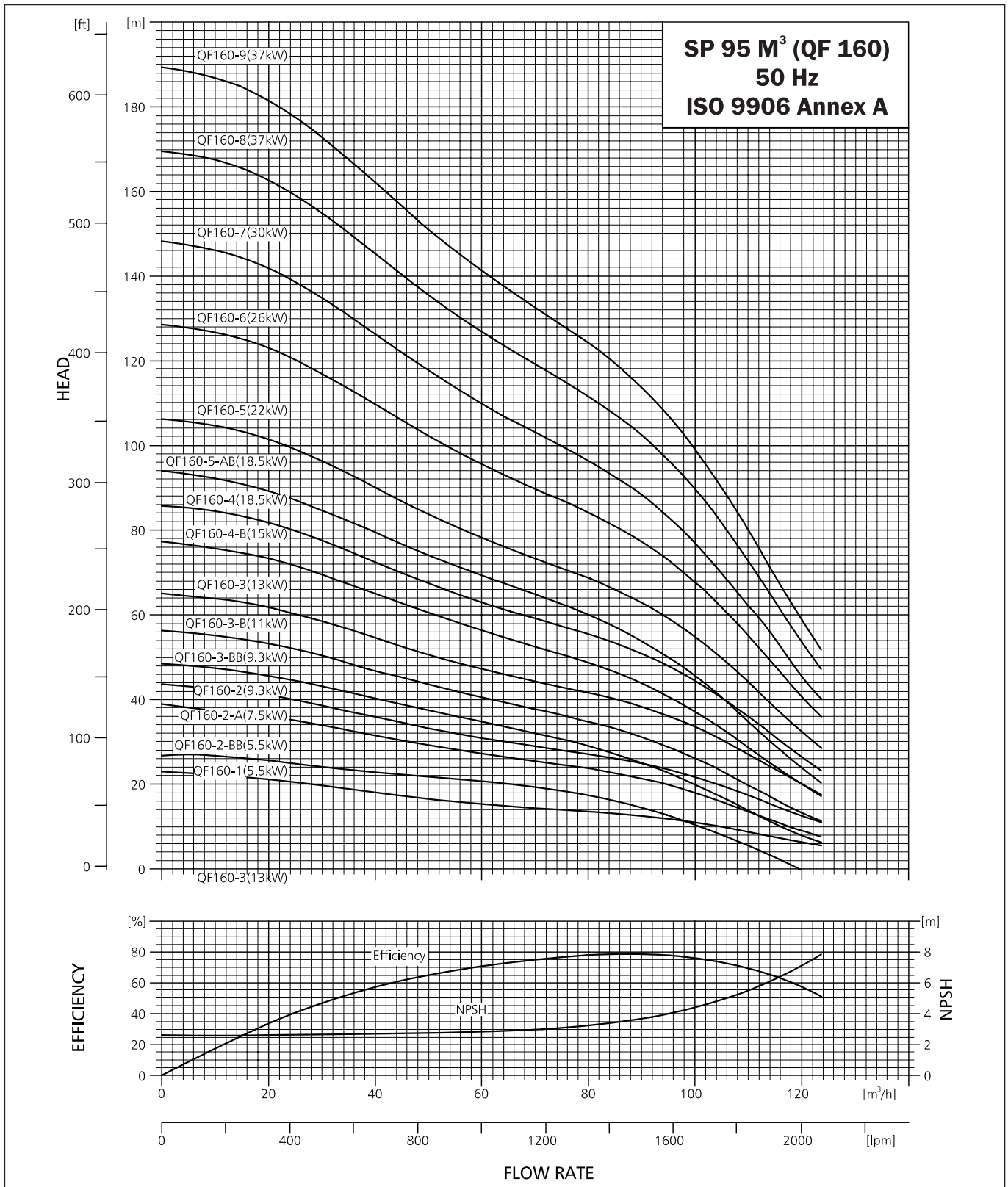
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SUBMERSIBLE PUMPS QF125

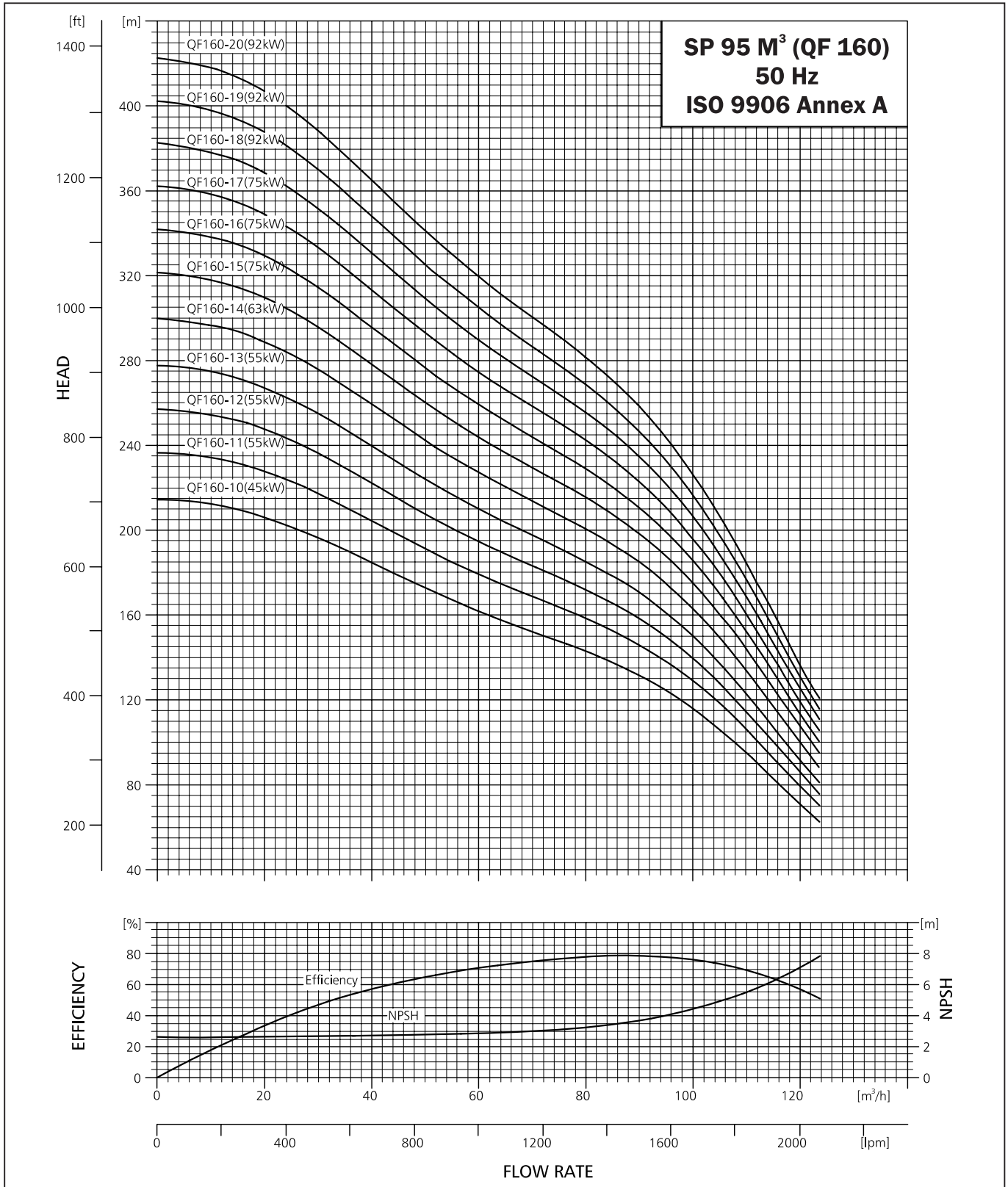


PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF160



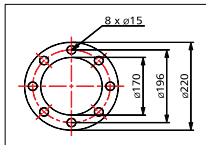
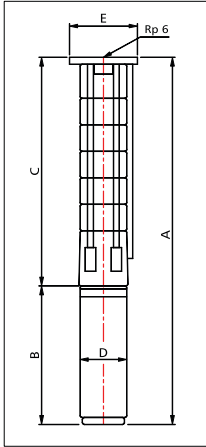
SUBMERSIBLE PUMPS QF160



TECHNICAL DATA QF 160

DIMENSIONS & WEIGHTS

SUBMERSIBLE PUMPS QF160



TECHNICAL DATA QF 160														
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 160 - 1	MTSF 150	5.5	1313	619	178	186	1313	619	200	200	694	143	21	48
QF 160 - 2-BB	MTSF 150	5.5	1441	747	178	186	1441	747	200	200	694	143	24	48
QF 160 - 2-A	MTSF 150	7.5	1441	747	178	186	1441	747	200	200	694	143	24	50
QF 160 - 2	MTSF 150	9.3	1491	747	178	186	1491	747	200	200	744	143	24	53
QF 160 - 3-BB	MTSF 150	9.3	1619	875	178	186	1619	875	200	200	744	143	28	53
QF 160 - 3-B	MTSF 150	11.0	1649	875	178	186	1649	875	200	200	774	143	28	56
QF 160 - 3	MTSF 150	13.0	1699	875	178	186	1699	875	200	200	824	143	28	61
QF 160 - 4-B	MTSF 150	15.0	1872	1003	178	186	1872	1003	200	200	869	143	31	66
QF 160 - 4	MTSF 150	18.5	1917	1003	178	186	1917	1003	200	200	914	143	31	70
QF 160 - 5-AB	MTSF 150	18.5	2045	1131	178	186	2045	1131	200	200	914	143	35	70
QF 160 - 5	MTSF 150	22.0	2135	1131	178	186	2135	1131	200	200	1004	143	35	79
QF 160 - 6	MTSF 150	26.0	2368	1259	178	186	2368	1259	200	200	1109	143	38	90
QF 160 - 7	MTSF 150	30.0	2596	1387	178	186	2596	1387	200	200	1209	143	42	100
QF 160 - 7	MTSF 200	30.0	2541	1401	196	204	2541	1401	210	210	1140	195	42	140
QF 160 - 8	MTSF 200	37.0	2669	1529	196	204	2669	1529	210	210	1140	195	46	140
QF 160 - 9	MTSF 200	37.0	2887	1657	196	204	2887	1657	210	210	1230	195	49	140
QF 160 - 10	MTSF 200	45.0	3015	1785	196	204	3015	1785	210	210	1230	195	53	156
QF 160 - 11	MTSF 200	55.0	3253	1913	196	204	3253	1913	210	210	1340	195	56	179
QF 160 - 12	MTSF 200	55.0	3381	2041	196	204	3381	2041	210	210	1340	195	60	179
QF 160 - 13	MTSF 200	55.0	3509	2169	196	204	3509	2169	210	210	1340	195	63	179
QF 160 - 14	MTSF 200	63.0	3767	2297	196	204	3767	2297	210	210	1470	195	67	179
QF 160 - 15	MTSF 200	75.0	3985	2425	196	204	-	-	-	-	1560	195	71	215
QF 160 - 16	MTSF 200	75.0	4113	2553	196	204	-	-	-	-	1560	195	74	215
QF 160 - 17	MTSF 200	75.0	4241	2681	196	204	-	-	-	-	1560	195	78	215
QF 160 - 18	MTSF 200	92.0	4549	2809	196	204	-	-	-	-	1740	195	81	247
QF 160 - 19	MTSF 200	92.0	4677	2937	196	204	-	-	-	-	1740	195	85	247
QF 160 - 20	MTSF 200	92.0	4805	3065	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

PERFORMANCE TABLE QF 160



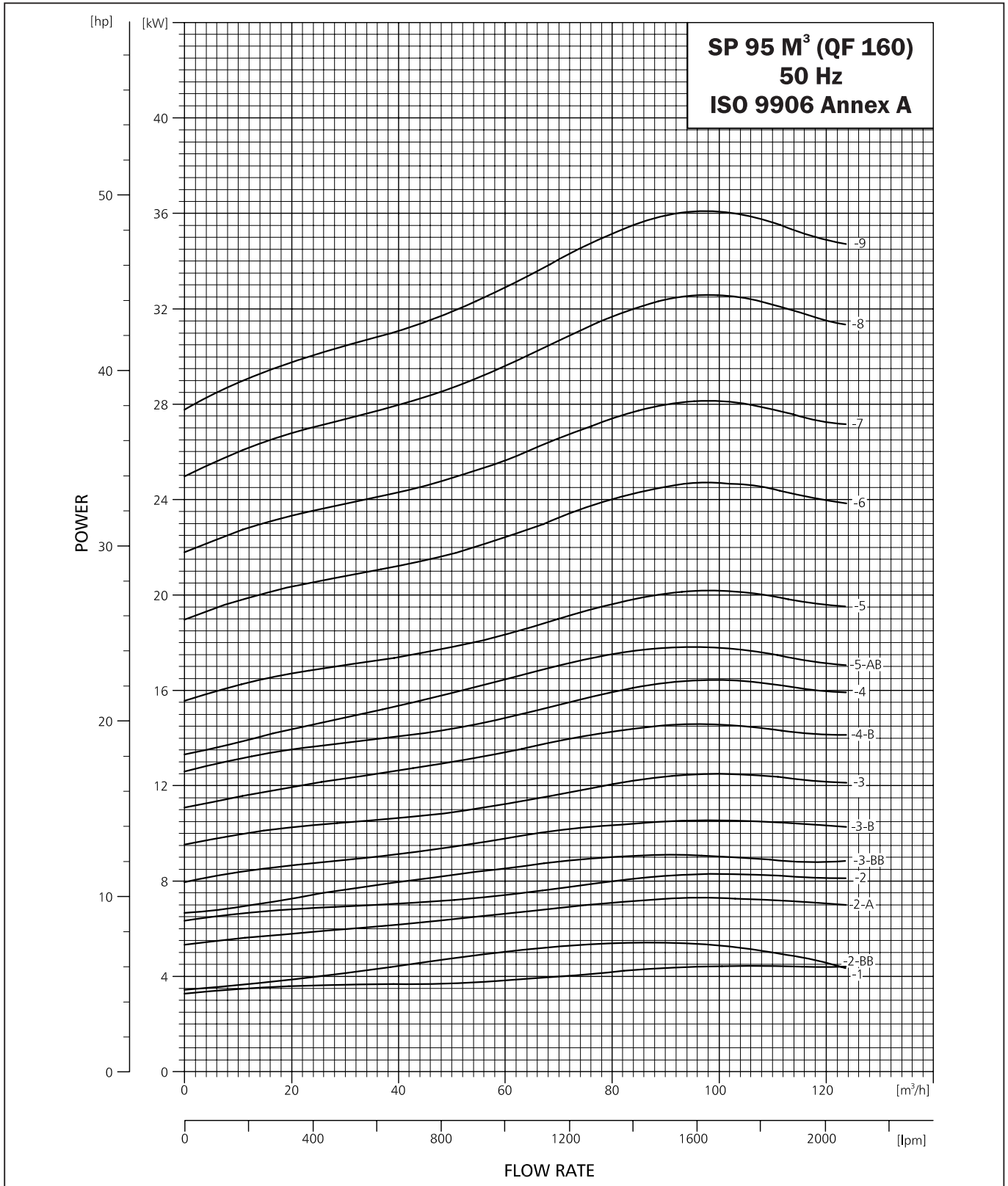
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SUBMERSIBLE PUMPS QF160

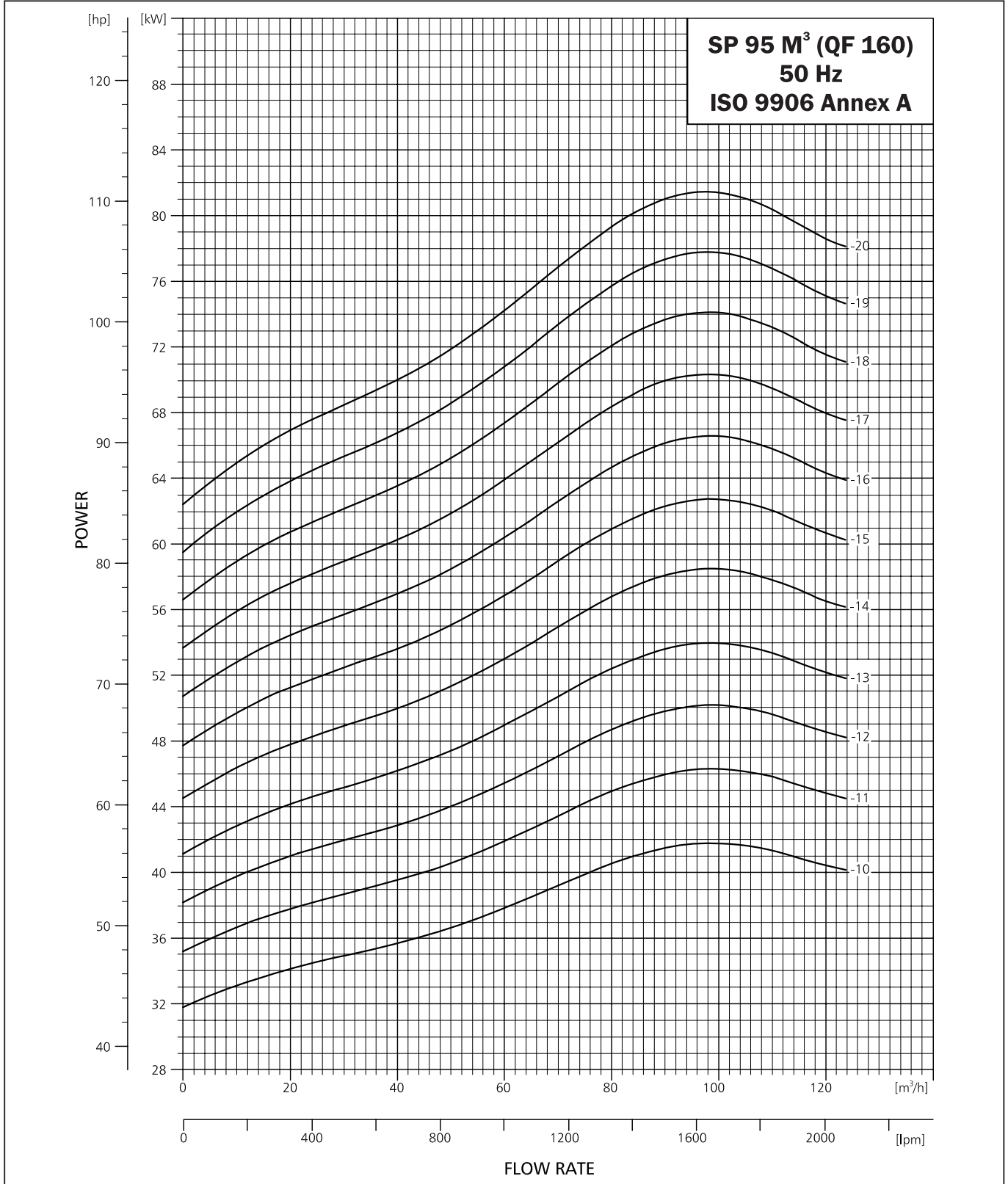
PERFORMANCE TABLE QF 160																
QF-160		DISCHARGE (Q)														
		m ³ /h	0	10	20	30	40	50	60	70	80	90	100	110	120	122
		l/min.	0	167	333	500	667	833	1000	1167	1333	1500	1667	1833	2000	2033
MODEL	MOTOR RATING		TOTAL HEAD IN [m]													
	[KW]	[HP]														
QF 160 - 1	5.5	7.5	23	22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

PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF160

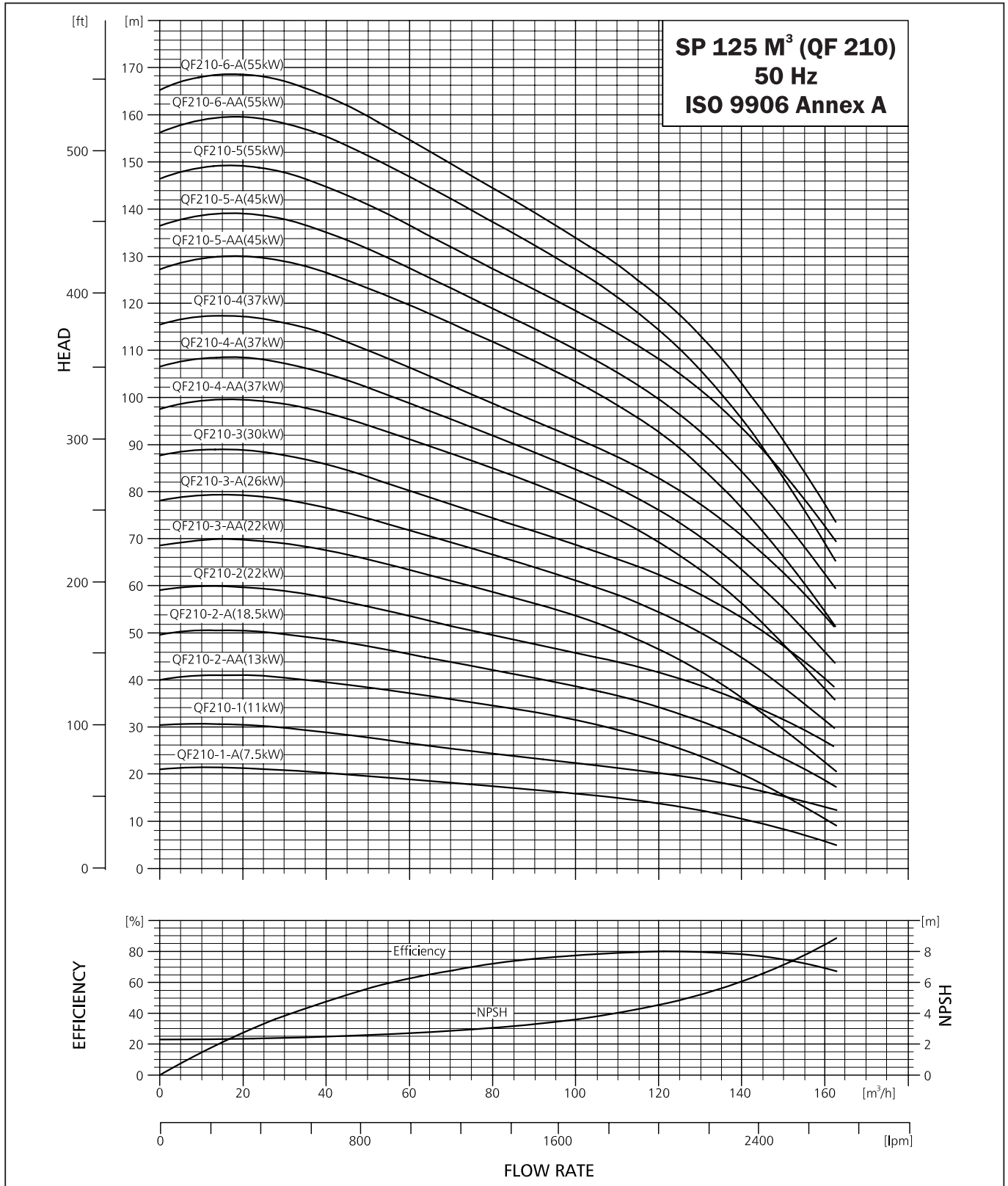


SUBMERSIBLE PUMPS QF160



PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF210

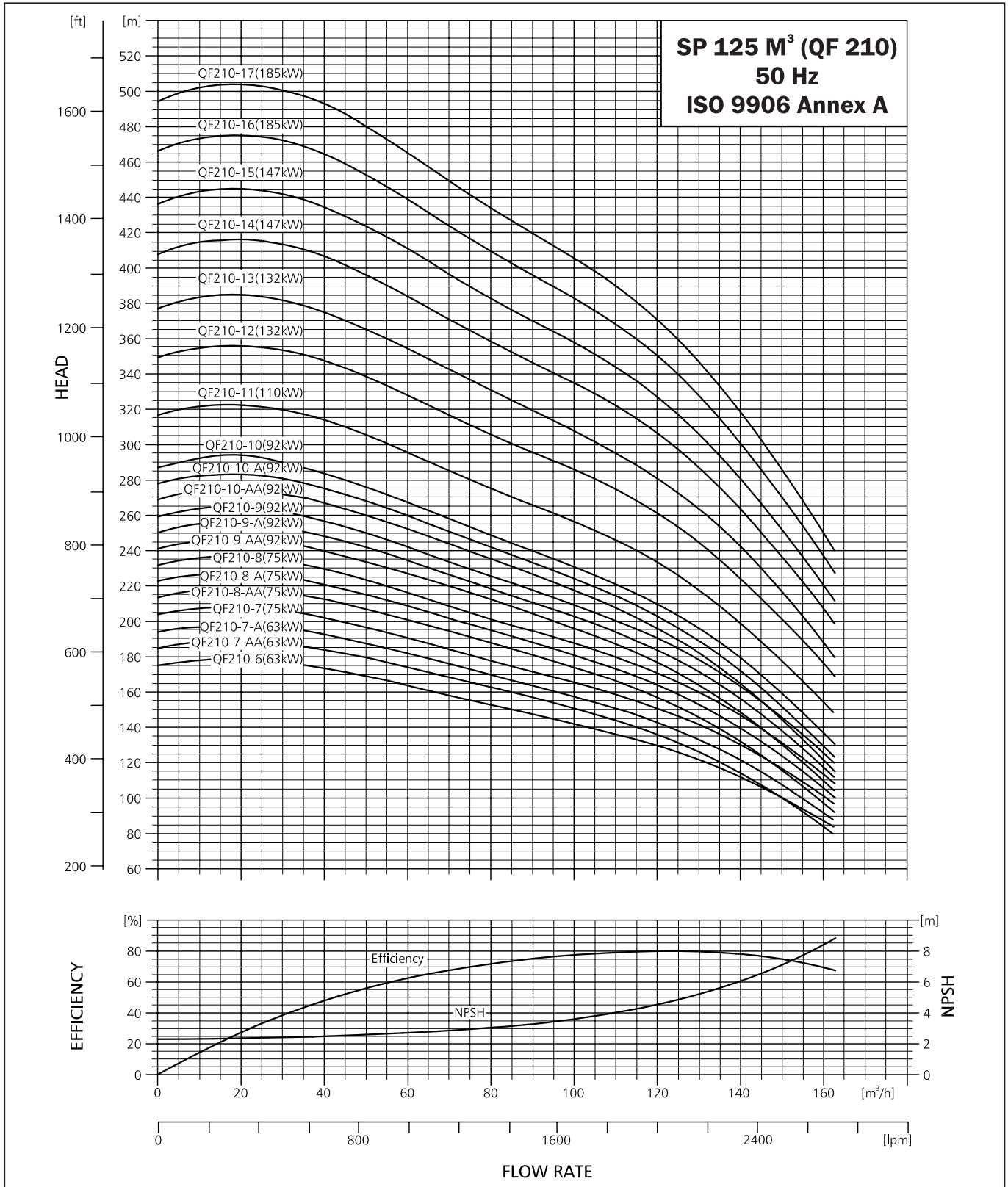


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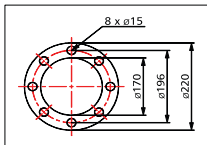
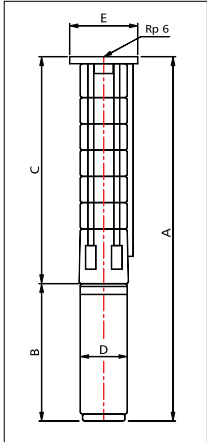
SUBMERSIBLE PUMPS QF210



TECHNICAL DATA QF 210

DIMENSIONS & WEIGHTS

SUBMERSIBLE PUMPS QF210



TECHNICAL DATA QF 210														
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**				
QF210-1-A	MTSF 150	7.5	1355	641	211	218	1355	641	222	226	714	143	27	50
QF210-1	MTSF 150	11	1415	641	211	218	1415	641	222	226	774	143	27	53
QF210-2-AA	MTSF 150	13	1621	797	211	218	1621	797	222	226	824	143	33	61
QF210-2-A	MTSF 150	18.5	1711	797	211	218	1711	797	222	226	914	143	33	70
QF210-2	MTSF 150	22	1801	797	213	218	1801	797	222	226	1004	143	33	79
QF210-3-AA	MTSF 150	22	1957	953	213	218	1957	953	222	226	1004	143	39	79
QF210-3-A	MTSF 150	26	2062	953	213	218	2062	953	222	226	1109	143	39	90
QF210-3	MTSF 150	30	2162	953	213	218	2162	953	222	226	1209	143	39	100
QF210-3	MTSF 200	30	2093	953	213	218	2093	953	222	226	1140	195	39	140
QF210-4-AA	MTSF 200	37	2249	1109	213	218	2249	1109	222	226	1140	195	45	140
QF210-4-A	MTSF 200	37	2249	1109	213	218	2249	1109	222	226	1140	195	45	140
QF210-4	MTSF 200	37	2249	1109	213	218	2249	1109	222	226	1140	195	45	140
QF210-5-AA	MTSF 200?	45	2495	1265	213	218	2495	1265	222	226	1230	195	51	156
QF210-5-A	MTSF 200	45	2495	1265	213	218	2495	1265	222	226	1230	195	51	156
QF210-5	MTSF 200	55	2605	1265	213	218	2605	1265	222	226	1340	195	51	179
QF210-6-AA	MTSF 200	55	2761	1421	213	218	2761	1421	222	226	1340	195	57	179
QF210-6-A	MTSF 200	55	2761	1421	213	218	2761	1421	222	226	1340	195	57	179
QF210-6	MTSF 200	63	2891	1421	218	227	2891	1421	229	232	1470	195	57	198
QF210-7-AA	MTSF 200	63	3047	1577	218	227	3047	1577	229	232	1470	195	63	198
QF210-7-A	MTSF 200	63	3047	1577	218	227	3047	1577	229	232	1470	195	63	198
QF210-7	MTSF 200	75	3137	1577	218	227	3137	1577	229	232	1560	195	63	215
QF210-8-AA	MTSF 200	75	3293	1733	218	227	-	-	-	-	1560	195	70	215
QF210-8-A	MTSF 200	75	3293	1733	218	227	-	-	-	-	1560	195	70	215
QF210-8	MTSF 200	75	3293	1733	218	227	-	-	-	-	1560	195	70	215
QF210-9-AA	MTSF 200	92	3629	1889	218	227	-	-	-	-	1740	195	76	247
QF210-9-A	MTSF 200	92	3629	1889	218	227	-	-	-	-	1740	195	76	247
QF210-9	MTSF 200	92	3629	1889	218	227	-	-	-	-	1740	195	76	247
QF210-10-AA	MTSF 200	92	3785	2045	218	227	-	-	-	-	1740	195	82	247
QF210-10-A	MTSF 200	92	3785	2045	218	227	-	-	-	-	1740	195	82	247
QF210-10	MTSF 200	92	3785	2045	218	227	-	-	-	-	1740	195	82	247
QF210-11	MTSF 10"	110	3730	2201	237	237	-	-	-	-	1529	235	91	315
QF210-12	MTSF 10"	132	4016	2357	237	237	-	-	-	-	1659	235	97	362
QF210-13	MTSF 10"	132	4172	2513	237	237	-	-	-	-	1659	235	104	362
QF210-14	MTSF 10"	147	4438	2669	237	237	-	-	-	-	1769	237	110	413
QF210-15	MTSF 10"	147	4594	2825	237	237	-	-	-	-	1769	237	116	413
QF210-16	MTSF 10"	185	4900	2981	237	237	-	-	-	-	1919	237	122	449
QF210-17	MTSF 10"	185	5056	3137	237	237	-	-	-	-	1919	237	128	449

* 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 210



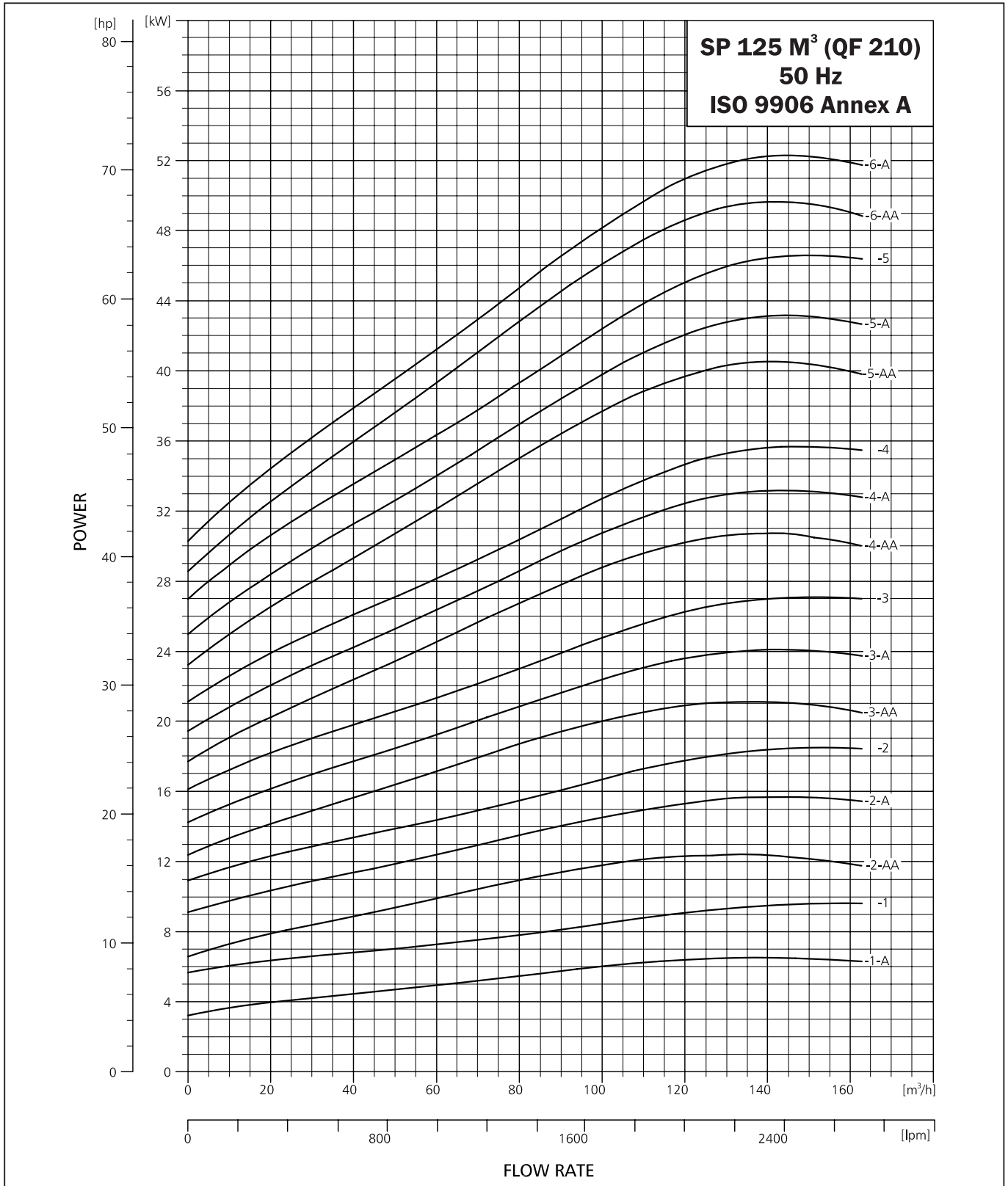
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SUBMERSIBLE PUMPS QF210

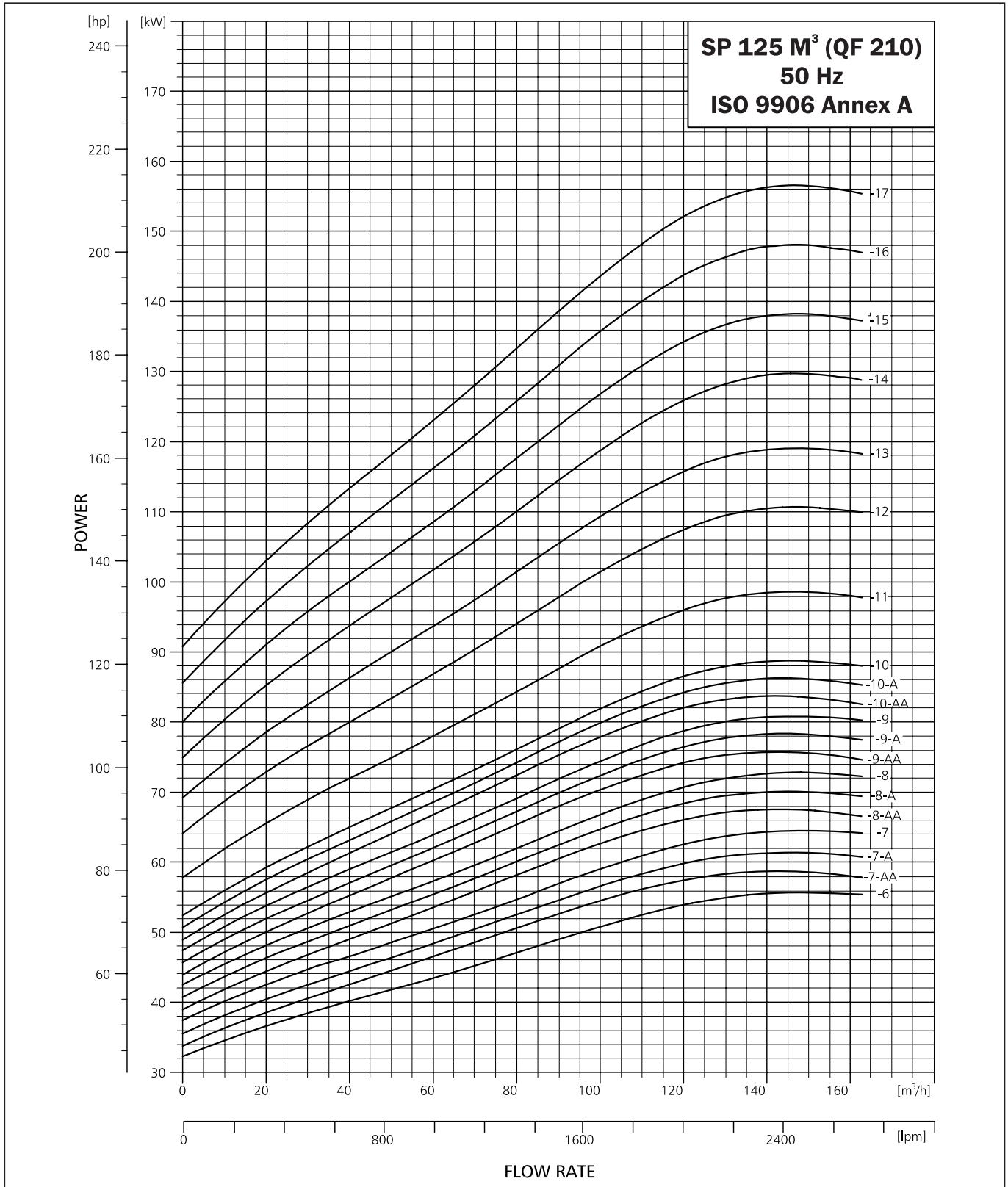
PERFORMANCE TABLE QF 210															
QF-210		DISCHARGE (Q)													
		m ³ /h	0	60	70	80	90	100	110	120	130	140	150	160	162
		l/min.	0	1000	1167	1333	1500	1667	1833	2000	2167	2333	2500	2667	2700
MODEL	MOTOR RATING		TOTAL HEAD IN [m]												
	[KW]	[HP]													
QF 210 - 1-A	7.5	10	21	19	18	17	17	16	15	14	12	10	8	6	5
QF 210 - 1	11	15	30	27	25	24	23	22	21	20	19	17	15	13	12
QF 210 - 2-AA	13	17.5	40	37	36	35	33	31	29	27	24	20	16	11	10
QF 210 - 2-A	18.5	25	50	45	44	42	40	39	37	34	31	28	23	19	18
QF 210 - 2	22	30	59	54	52	50	48	46	44	42	39	35	32	27	26
QF 210 - 3-AA	22	30	69	63	61	59	56	54	50	47	42	36	30	22	21
QF 210 - 3-A	26	35	78	72	69	67	64	61	58	54	50	45	38	31	30
QF 210 - 3	30	40	88	80	77	74	72	69	66	62	58	53	47	40	39
QF 210 - 4-AA	37	50	98	91	88	85	82	78	74	69	63	56	48	38	36
QF 210 - 4-A	37	50	107	99	95	92	88	85	81	76	70	63	55	46	44
QF 210 - 4	37	50	116	106	102	99	95	91	87	83	77	71	63	54	52
QF 210 - 5-AA	45	60	127	120	116	112	108	103	98	93	85	77	66	54	52
QF 210 - 5-A	45	60	136	127	123	119	115	110	105	100	93	84	74	63	60
QF 210 - 5	55	75	146	137	132	127	123	118	114	108	102	93	84	72	70
QF 210 - 6-AA	55	75	156	147	142	137	132	127	121	114	106	95	83	69	66
QF 210 - 6-A	55	75	165	155	150	144	139	134	128	121	113	103	91	77	74
QF 210 - 6	63	85	175	164	158	153	147	142	136	130	122	112	100	87	84
QF 210 - 7-AA	63	85	185	174	168	163	157	151	144	136	126	114	100	83	80
QF 210 - 7-A	63	85	194	182	176	170	164	158	151	143	133	122	107	92	88
QF 210 - 7	75	100	204	191	184	178	172	165	159	151	142	130	117	101	97
QF 210 - 8-AA	75	100	214	201	194	188	181	174	166	157	146	132	116	97	93
QF 210 - 8-A	75	100	223	209	202	195	188	181	173	164	153	139	123	105	101
QF 210 - 8	75	100	232	216	209	202	195	188	180	171	160	147	131	113	109
QF 210 - 9-AA	92	125	241	227	219	212	204	196	187	177	164	149	130	110	105
QF 210 - 9-A	92	125	250	234	226	219	211	203	194	184	171	156	138	117	113
QF 210 - 9	92	125	260	242	234	226	218	209	201	191	178	163	146	125	121
QF 210 - 10-AA	92	125	269	252	244	235	227	218	208	196	182	165	144	121	117
QF 210 - 10-A	92	125	278	260	251	242	233	224	214	203	189	172	152	129	124
QF 210 - 10	92	125	287	267	258	249	240	231	221	210	196	179	159	137	132

PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF210

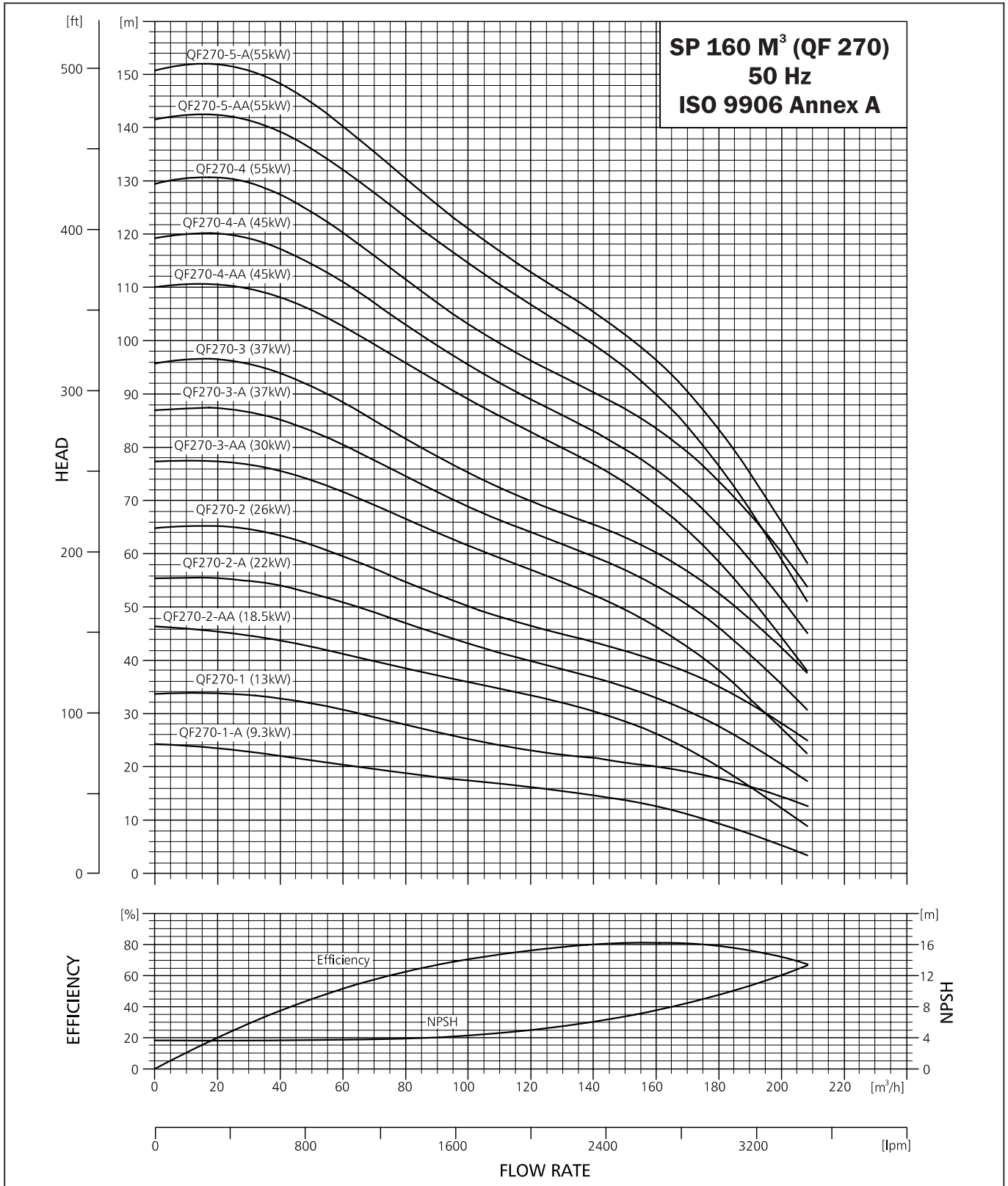


SUBMERSIBLE PUMPS QF210



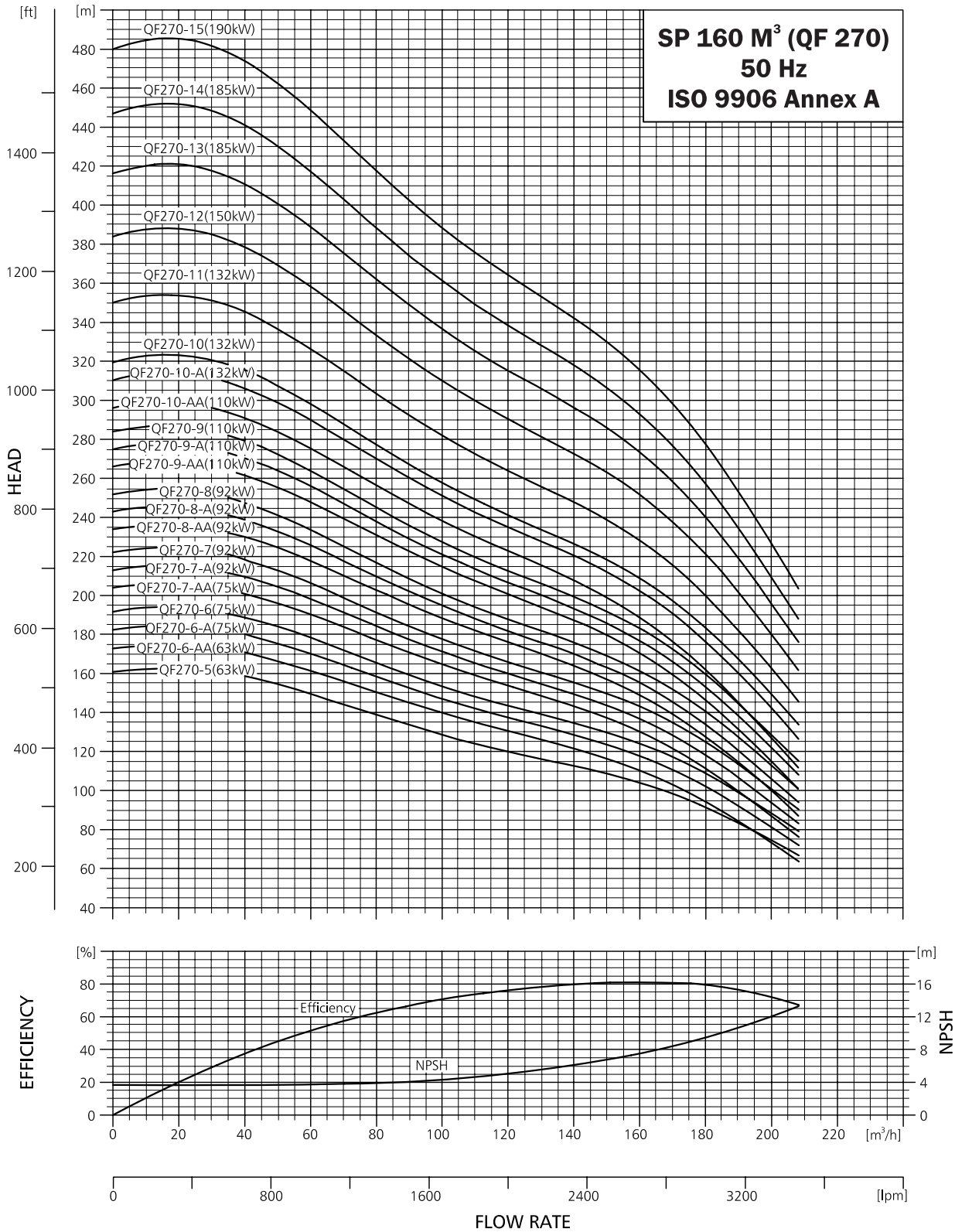
PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF270



SUBMERSIBLE PUMPS QF270

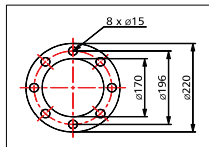
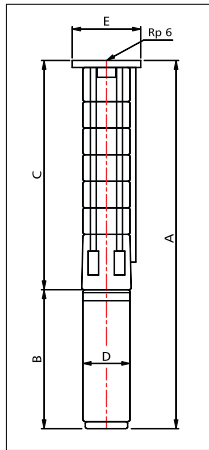
SP 160 M³ (QF 270)
50 Hz
ISO 9906 Annex A



TECHNICAL DATA QF 270

DIMENSIONS & WEIGHTS

SUBMERSIBLE PUMPS QF270



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**				
QF270-1-A	MTSF 150	9.3	1355	641	211	218	1355	641	222	226	714	143	26	50
QF270-1	MTSF 150	13	1465	641	211	218	1465	641	222	226	824	143	26	61
QF270-2-AA	MTSF 150	18.5	1711	797	211	218	1711	797	222	226	914	143	33	70
QF270-2-A	MTSF 150	22	1801	797	211	218	1801	797	222	226	1004	143	33	79
QF270-2	MTSF 150	26	1906	797	213	218	1906	797	222	226	1109	143	33	90
QF270-3-AA	MTSF 150	30	2162	953	213	218	2162	953	222	226	1209	143	39	100
QF270-3-AA	MTSF 200	30	2093	953	213	218	2093	953	222	226	1140	195	39	140
QF270-3-A	MTSF 200	37	2093	953	213	218	2093	953	222	226	1140	195	39	140
QF270-3	MTSF 200	37	2093	953	213	218	2093	953	222	226	1140	195	39	140
QF270-4-AA	MTSF 200	45	2339	1109	213	218	2339	1109	222	226	1230	195	45	156
QF270-4-A	MTSF 200	45	2339	1109	213	218	2339	1109	222	226	1230	195	45	156
QF270-4	MTSF 200	55	2449	1109	213	218	2449	1109	222	226	1340	195	45	179
QF270-5-AA	MTSF 200	55	2605	1265	213	218	2605	1265	222	226	1340	195	51	179
QF270-5-A	MTSF 200	55	2605	1265	213	218	2605	1265	222	226	1340	195	51	179
QF270-5	MTSF 200	63	2735	1265	213	218	2735	1265	222	226	1470	195	51	198
QF270-6-AA	MTSF 200	63	2891	1421	213	218	2891	1421	222	226	1470	195	58	198
QF270-6-A	MTSF 200	75	2981	1421	213	218	2981	1421	222	226	1560	195	58	215
QF270-6	MTSF 200	75	2981	1421	218	227	2981	1421	229	232	1560	195	58	215
QF270-7-AA	MTSF 200	75	3137	1577	218	227	-	-	-	-	1560	195	64	215
QF270-7-A	MTSF 200	92	3317	1577	218	227	-	-	-	-	1740	195	64	247
QF270-7	MTSF 200	92	3317	1577	218	227	-	-	-	-	1740	195	64	247
QF270-8-AA	MTSF 200	92	3473	1733	218	227	-	-	-	-	1740	195	70	247
QF270-8-A	MTSF 200	92	3473	1733	218	227	-	-	-	-	1740	195	70	247
QF270-8	MTSF 200	92	3473	1733	218	227	-	-	-	-	1740	195	70	247
QF270-9-AA	MTSF 10"	110	3418	1889	218	227	-	-	-	-	1529	195	80	315
QF270-9-A	MTSF 10"	110	3418	1889	218	227	-	-	-	-	1529	195	80	315
QF270-9	MTSF 10"	110	3418	1889	218	227	-	-	-	-	1529	195	80	315
QF270-10-AA	MTSF 10"	110	3574	2045	218	227	-	-	-	-	1529	195	86	315
QF270-10-A	MTSF 10"	132	3704	2045	218	227	-	-	-	-	1659	235	86	362
QF270-10	MTSF 10"	132	3704	2045	218	227	-	-	-	-	1659	235	86	362
QF270-11	MTSF 10"	132	3860	2201	237	237	-	-	-	-	1659	235	93	362
QF270-12	MTSF 10"	150	4126	2357	237	237	-	-	-	-	1769	237	99	413
QF270-13	MTSF 10"	185	4432	2513	237	237	-	-	-	-	1919	237	105	449
QF270-14	MTSF 10"	185	4588	2669	237	237	-	-	-	-	1919	237	111	449
QF270-15	MOTOR 12"	190	5225	2825	286	286	-	-	-	-	2400	286	118	817

* 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 270



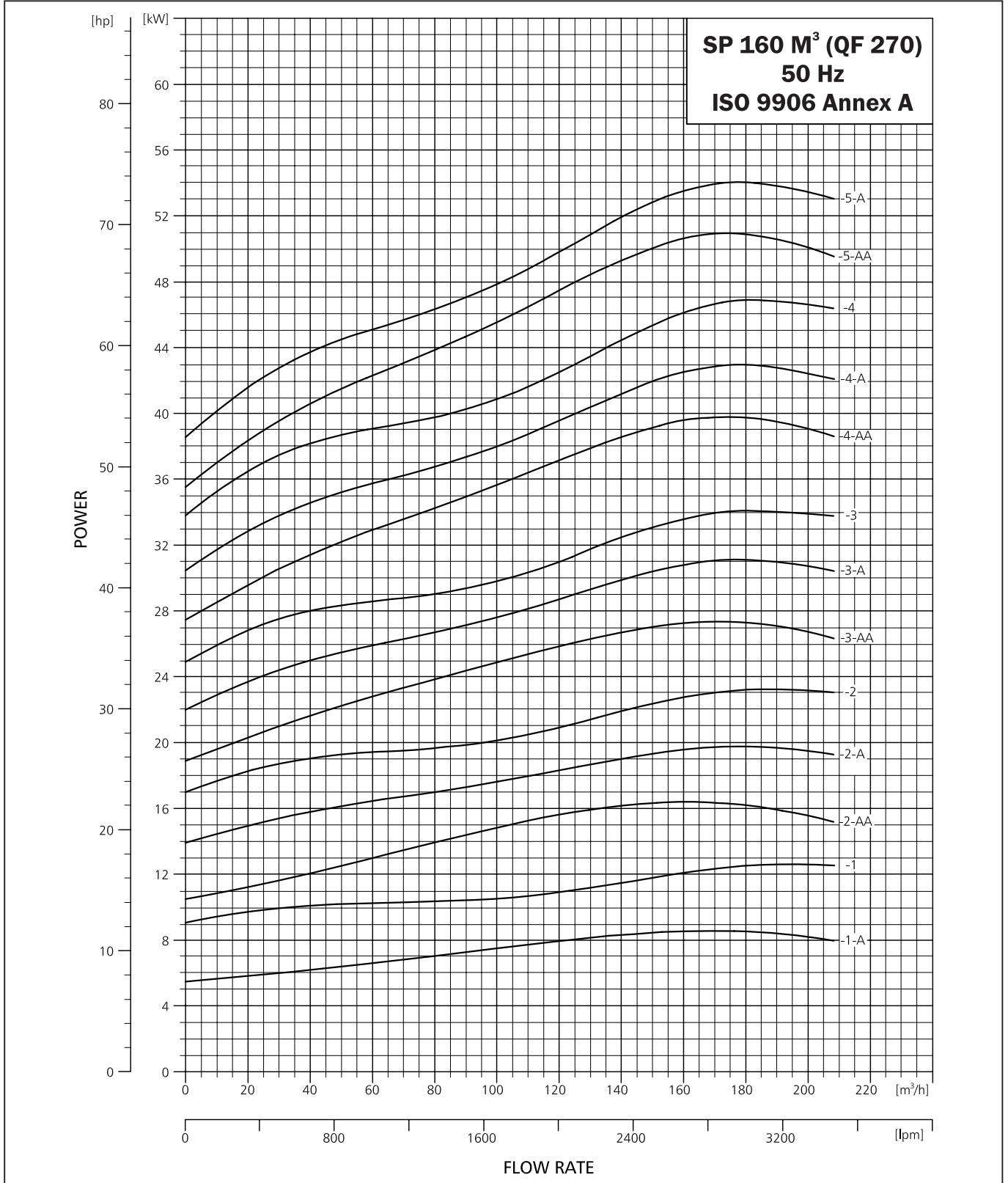
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SUBMERSIBLE PUMPS QF270

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	MOTOR RATING		TOTAL HEAD IN [m]														
		[KW]	[HP]															
QF 270 - 1-A	Rp 6	9.3	12.5	24	19	18	17	17	16	15	15	14	13	11	9	7	5	3
QF 270 - 1		13	17.5	34	28	26	25	24	23	22	22	21	20	19	18	16	14	13
QF 270 - 2-AA		18.5	25	46	38	37	36	35	33	32	30	29	26	23	20	16	12	9
QF 270 - 2-A		22	30	55	47	45	43	41	40	38	37	35	33	31	28	24	20	17
QF 270 - 2		26	35	65	55	52	50	48	46	45	43	42	40	38	35	32	28	25
QF 270 - 3-AA		30	40	77	67	64	62	59	57	55	52	49	46	42	38	33	27	23
QF 270 - 3-A		37	50	87	75	72	69	66	64	62	59	57	54	50	46	41	35	31
QF 270 - 3		37	50	96	82	78	75	72	70	68	65	63	60	57	53	48	42	38
QF 270 - 4-AA		45	60	110	96	92	89	86	83	80	77	73	69	64	58	52	44	38
QF 270 - 4-A		45	60	119	103	99	95	92	89	86	83	80	76	71	65	59	51	45
QF 270 - 4		55	75	129	111	107	103	100	96	93	90	87	83	79	74	67	60	54
QF 270 - 5-AA		55	75	142	123	119	114	111	107	103	99	95	90	84	76	68	59	51
QF 270 - 5-A		55	75	151	130	126	121	117	113	109	105	101	96	90	83	75	66	58
QF 270 - 5		63	85	161	139	133	129	124	120	116	113	109	104	98	91	83	74	67
QF 270 - 6-AA		63	85	173	150	145	140	135	131	126	121	116	110	103	94	84	73	64
QF 270 - 6-A		75	100	183	158	153	147	142	137	133	128	123	118	111	102	92	81	72
QF 270 - 6		75	100	192	166	159	154	148	144	139	135	130	124	117	109	99	88	79
QF 270 - 7-AA		75	100	204	177	171	165	159	154	149	143	137	130	122	112	100	87	76
QF 270 - 7-A		92	125	213	184	177	171	165	160	155	149	144	137	128	118	107	94	84
QF 270 - 7		92	125	222	191	184	177	171	166	161	155	150	143	135	125	113	101	91
QF 270 - 8-AA	92	125	234	203	195	188	182	176	170	164	157	149	139	127	114	99	87	
QF 270 - 8-A	92	125	243	210	202	195	188	182	176	170	163	155	145	134	121	106	94	
QF 270 - 8	92	125	252	217	208	201	194	188	182	176	169	161	152	140	127	113	101	
QF 270 - 9-AA	110	150	266	231	223	215	207	201	194	187	179	170	159	146	131	115	102	
QF 270 - 9-A	110	150	275	238	229	221	214	207	200	193	186	177	166	153	138	122	109	
QF 270 - 9	110	150	284	245	236	220	220	213	206	199	192	183	172	160	145	129	116	

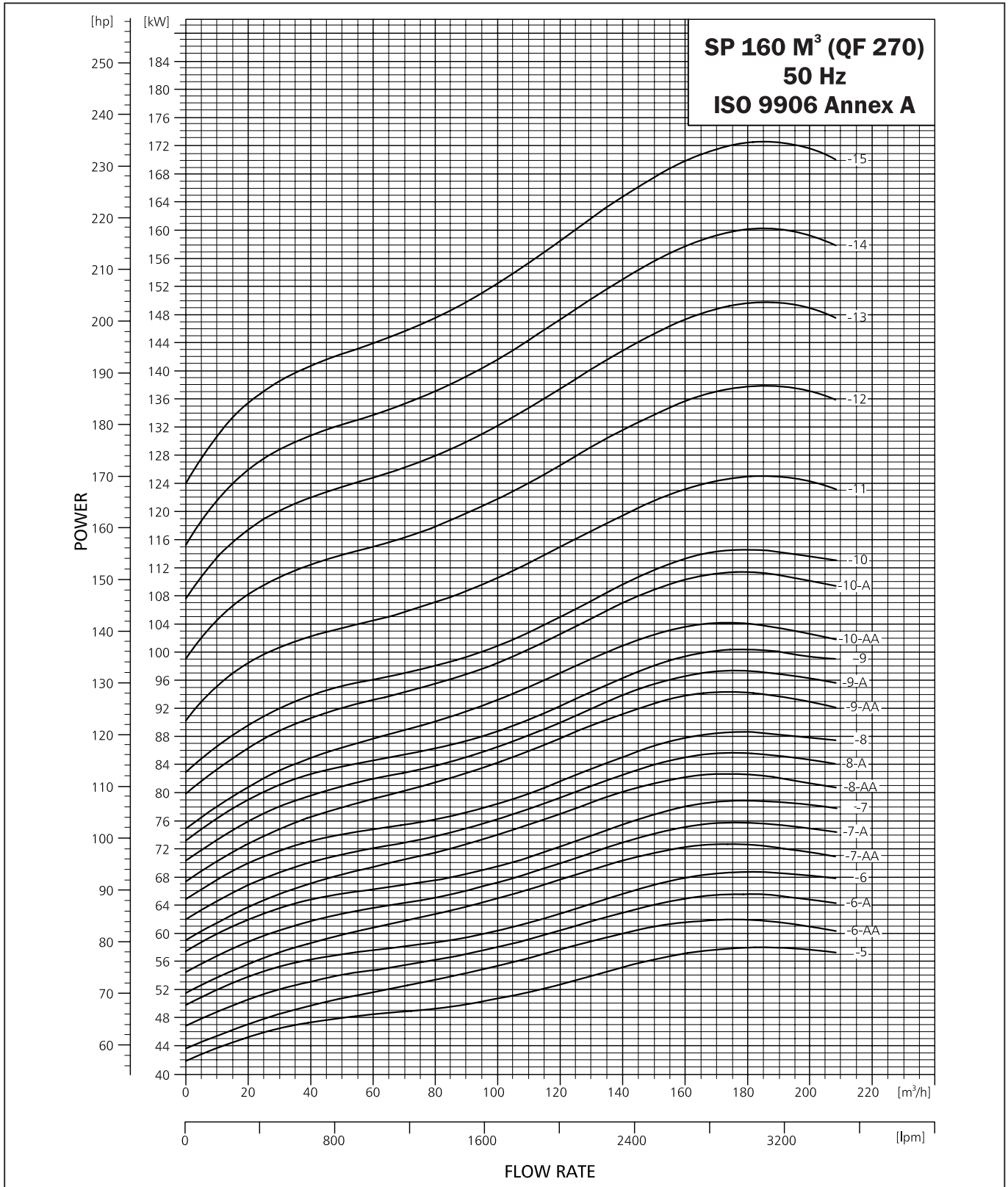
PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF270



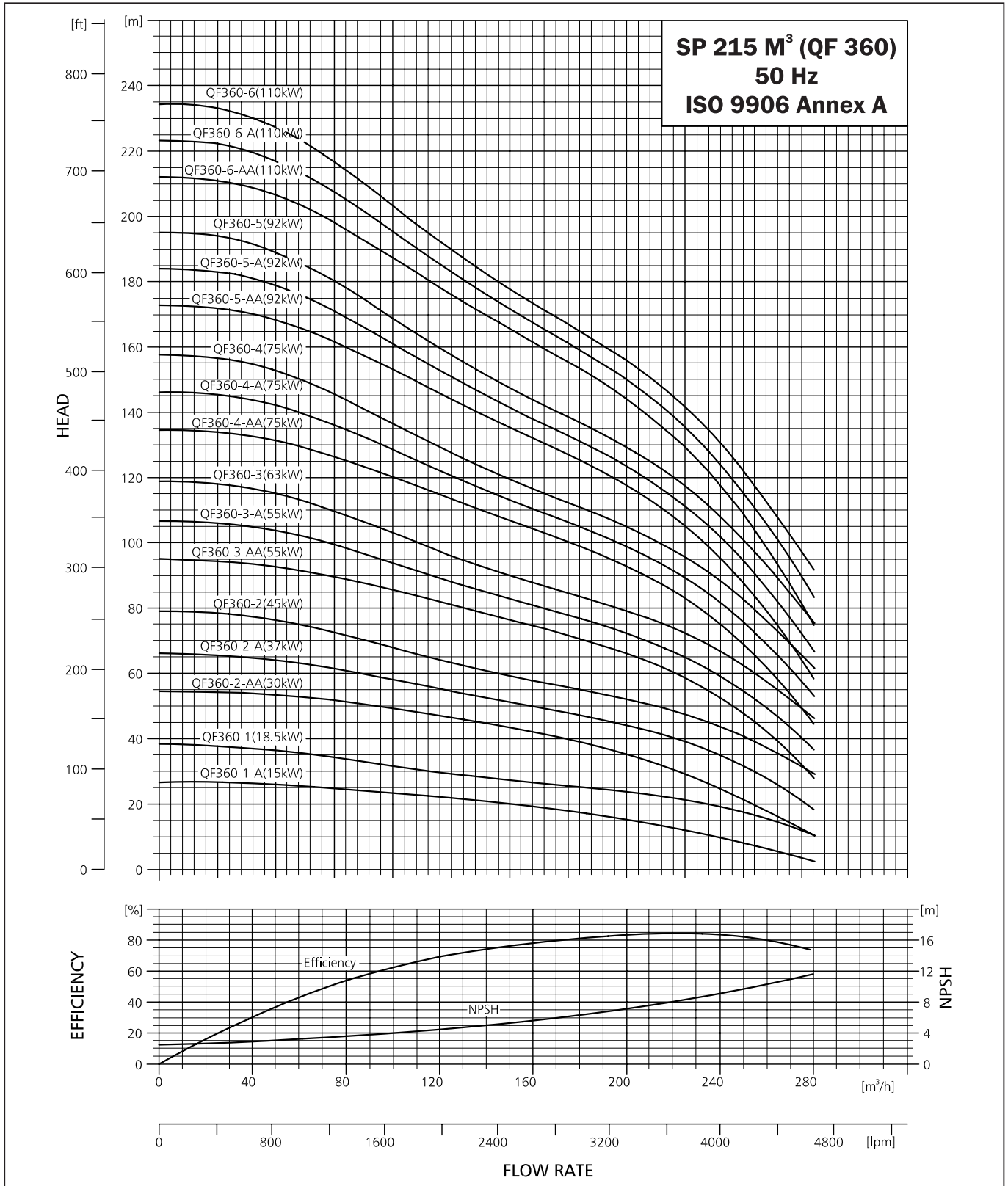
PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF270

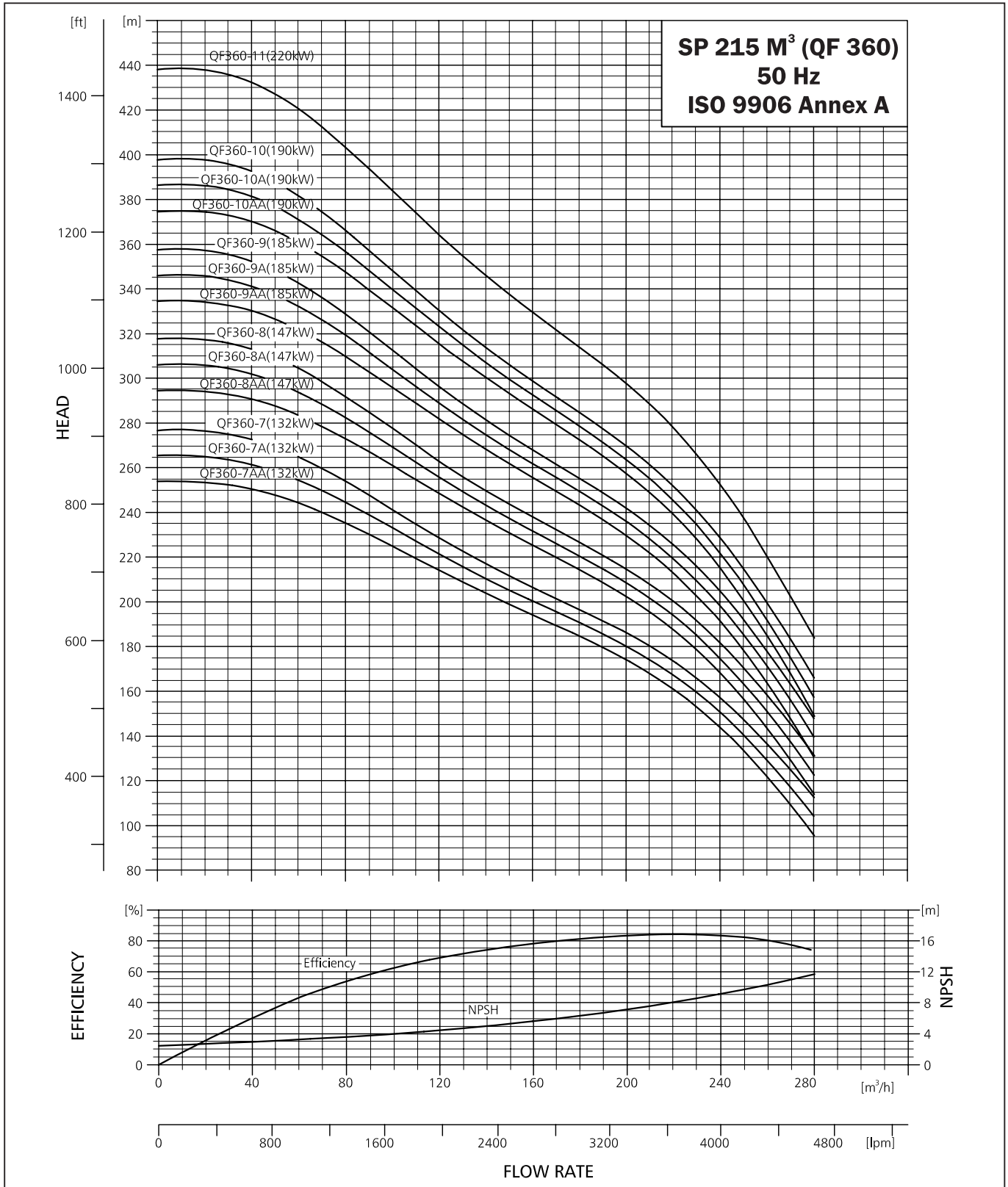


PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF360



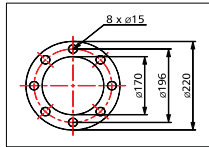
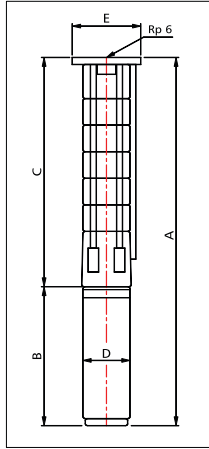
SUBMERSIBLE PUMPS QF360



TECHNICAL DATA QF 360

DIMENSIONS & WEIGHTS

SUBMERSIBLE PUMPS QF360



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	MTSF 150	15	1480	611	241	247	1480	611	241	247	869	143	28	66
QF360-1	MTSF 150	18.5	1525	611	241	247	1525	611	241	247	914	143	28	70
QF360-2-AA	MTSF 150	30	1996	787	241	247	1996	787	241	247	1209	143	56	100
QF360-2-AA	MTSF 200	30	2000	860	241	247	2000	860	241	247	1140	195	56	140
QF360-2-A	MTSF 200	37	2000	860	241	247	2000	860	241	247	1140	195	56	140
QF360-2	MTSF 200	45	2090	860	241	247	2090	860	241	247	1230	195	56	156
QF360-3-AA	MTSF 200	55	2376	1036	241	247	2376	1036	241	247	1340	195	84	179
QF360-3-A	MTSF 200	55	2376	1036	241	247	2376	1036	241	247	1340	195	84	179
QF360-3	MTSF 200	63	2506	1036	241	247	2506	1036	241	247	1470	195	84	198
QF360-4-AA	MTSF 200	75	2772	1212	241	247	2772	1212	241	247	1560	195	111	215
QF360-4-A	MTSF 200	75	2772	1212	241	247	2772	1212	241	247	1560	195	111	215
QF360-4	MTSF 200	75	2772	1212	241	247	2772	1212	241	247	1560	195	111	215
QF360-5-AA	MTSF 200	92	3128	1388	241	247	3128	1388	241	247	1740	195	139	247
QF360-5-A	MTSF 200	92	3128	1388	241	247	3128	1388	241	247	1740	195	139	247
QF360-5	MTSF 200	92	3128	1388	241	247	3128	1388	241	247	1740	195	139	247
QF360-6-AA	MTSF 10"	110	3093	1564	241	247	3093	1564	241	247	1529	237	167	315
QF360-6-A	MTSF 10"	110	3093	1564	241	247	3093	1564	241	247	1529	237	167	315
QF360-6	MTSF 10"	110	3093	1564	241	247	3093	1564	241	247	1529	237	167	315
QF360-7-AA	MTSF 10"	132	3399	1740	241	247	-	-	-	-	1659	237	195	362
QF360-7-A	MTSF 10"	132	3399	1740	241	247	-	-	-	-	1659	237	195	362
QF360-7	MTSF 10"	132	3399	1740	241	247	-	-	-	-	1659	237	195	362
QF360-8-AA	MTSF 10"	147	3685	1916	241	247	-	-	-	-	1769	237	223	413
QF360-8-A	MTSF 10"	147	3685	1916	241	247	-	-	-	-	1769	237	223	413
QF360-8	MTSF 10"	147	3685	1916	276	276	-	-	-	-	1769	237	223	413
QF360-9-AA	MTSF 10"	185	4011	2092	276	276	-	-	-	-	1919	237	251	449
QF360-9-A	MTSF 10"	185	4011	2092	276	276	-	-	-	-	1919	237	251	449
QF360-9	MTSF 10"	185	4011	2092	276	276	-	-	-	-	1919	237	251	449
QF360-10-AA	MOTOR 12"	190	4248	2268	276	276	-	-	-	-	1980	286	278	632
QF360-10-A	MOTOR 12"	190	4248	2268	286	286	-	-	-	-	1980	286	278	632
QF360-10	MOTOR 12"	190	4248	2268	286	286	-	-	-	-	1980	286	278	632
QF360-11	MOTOR 12"	220	4584	2444	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

PERFORMANCE TABLE QF 360



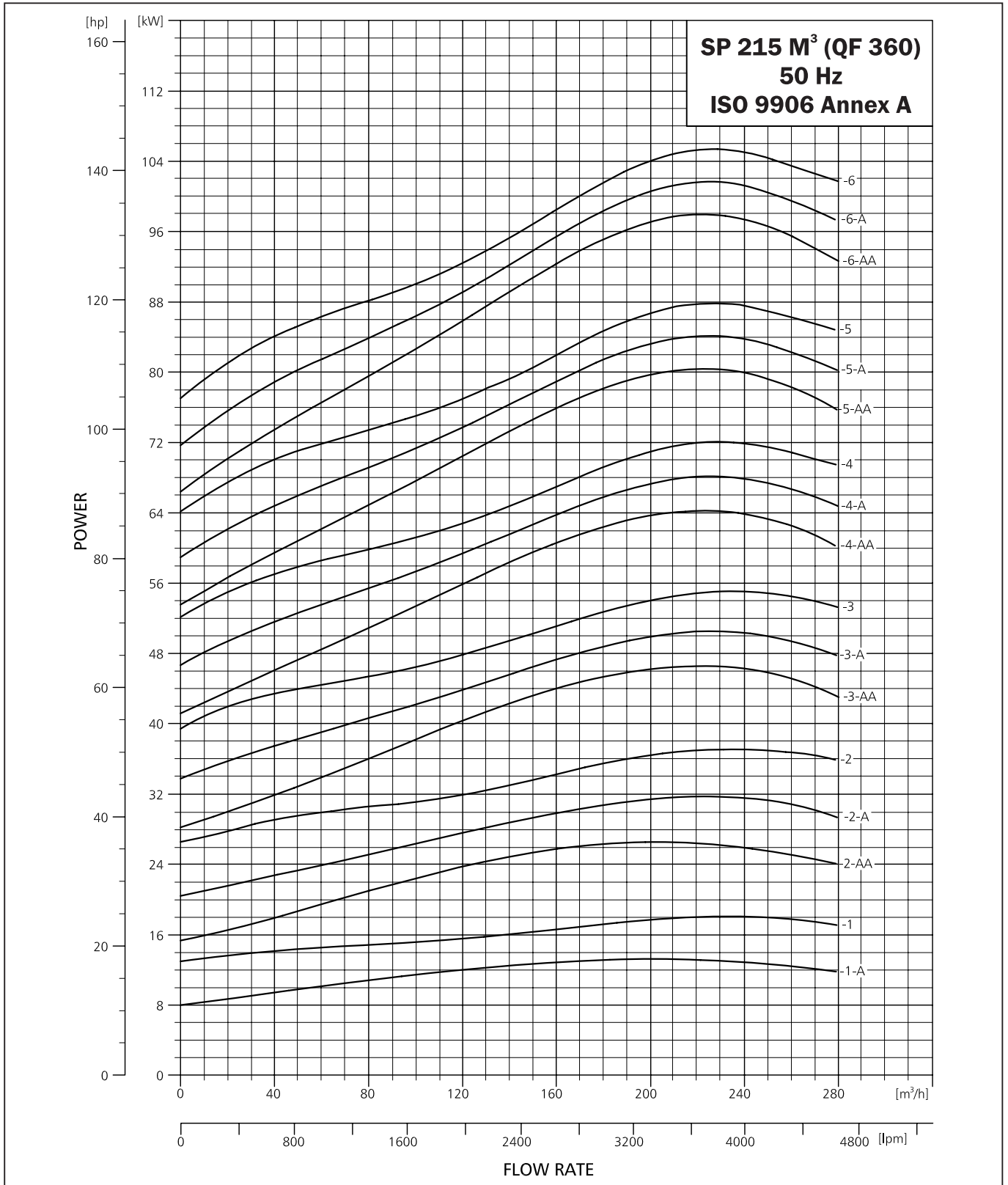
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SUBMERSIBLE PUMPS QF360

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	333	3500	3667	3833	4000	4167	4333	4500	4667
MODEL	MOTOR RATING		TOTAL HEAD IN [m]																
	[KW]	[HP]																	
QF 360 - 1-A	15	20	27	24	23	22	20	18	17	16	15	14	13	11	10	8	6	4	3
QF 360 - 1	18.5	25	38	33	31	29	27	26	25	24	24	23	22	21	19	18	16	13	11
QF 360 - 2-AA	30	40	55	50	48	46	43	41	39	37	35	33	31	28	25	21	18	14	11
QF 360 - 2-A	37	50	66	59	57	54	51	49	47	46	44	42	40	38	35	32	28	23	18
QF 360 - 2	45	60	79	70	66	62	59	56	55	54	52	50	49	46	44	41	37	34	19
QF 360 - 3-AA	55	75	95	87	84	80	76	73	71	69	66	63	60	57	53	48	42	36	28
QF 360 - 3-A	55	75	107	96	92	87	83	79	77	75	72	70	67	63	59	55	49	43	37
QF 360 - 3	63	85	119	106	100	95	90	86	84	81	79	77	74	71	67	62	58	52	46
QF 360 - 4-AA	75	100	135	123	117	112	107	102	99	96	93	89	85	80	75	69	62	54	45
QF 360 - 4-A	75	100	146	132	125	119	113	108	105	102	99	95	91	87	82	76	69	61	53
QF 360 - 4	75	100	158	140	133	126	119	114	111	108	105	102	98	93	88	82	76	69	62
QF 360 - 5-AA	92	125	173	157	149	142	135	129	125	122	118	113	108	102	95	88	79	69	59
QF 360 - 5-A	92	125	184	165	157	149	141	135	131	127	123	119	114	108	102	94	86	77	67
QF 360 - 5	92	125	195	173	164	155	148	140	137	133	129	125	120	114	108	101	93	84	76
QF 360 - 6-AA	110	150	212	192	183	174	166	157	153	149	144	139	133	126	118	109	98	87	75
QF 360 - 6-A	110	150	223	200	190	181	172	163	159	155	150	145	139	132	124	115	105	95	83
QF 360 - 6	110	150	234	209	198	187	178	169	165	160	156	151	145	138	130	122	112	102	92
QF 360 - 7-AA	132	177	254	230	220	209	199	190	185	180	174	168	161	153	144	134	122	109	96
QF 360 - 7-A	132	177	265	239	227	216	205	196	191	186	180	174	167	159	151	141	129	117	104
QF 360 - 7	132	177	277	248	235	223	212	202	197	192	186	180	174	166	157	147	137	125	113
QF 360 - 8-AA	147	204	295	267	255	242	231	220	214	209	202	195	188	179	168	157	144	129	114
QF 360 - 8-A	147	204	306	276	263	249	237	226	221	215	209	202	194	185	175	164	151	137	123
QF 360 - 8	147	204	318	285	270	256	244	232	227	221	215	208	200	192	182	171	158	145	131
QF 360 - 9-AA	185	252	334	303	289	275	262	249	243	237	230	222	213	203	191	178	164	148	131
QF 360 - 9-A	185	252	346	312	297	282	268	256	249	243	236	228	219	209	198	185	171	156	140
QF 360 - 9	185	252	358	321	305	289	275	262	255	249	242	234	226	216	205	192	179	164	148
QF 360 - 10-AA	190	260	375	340	324	308	293	279	272	265	257	249	239	228	215	201	185	168	149
QF 360 - 10-A	190	260	386	349	331	315	300	286	279	271	264	255	245	234	222	208	192	175	158
QF 360 - 10	190	260	398	357	339	322	306	292	285	277	270	261	252	241	229	215	200	183	166

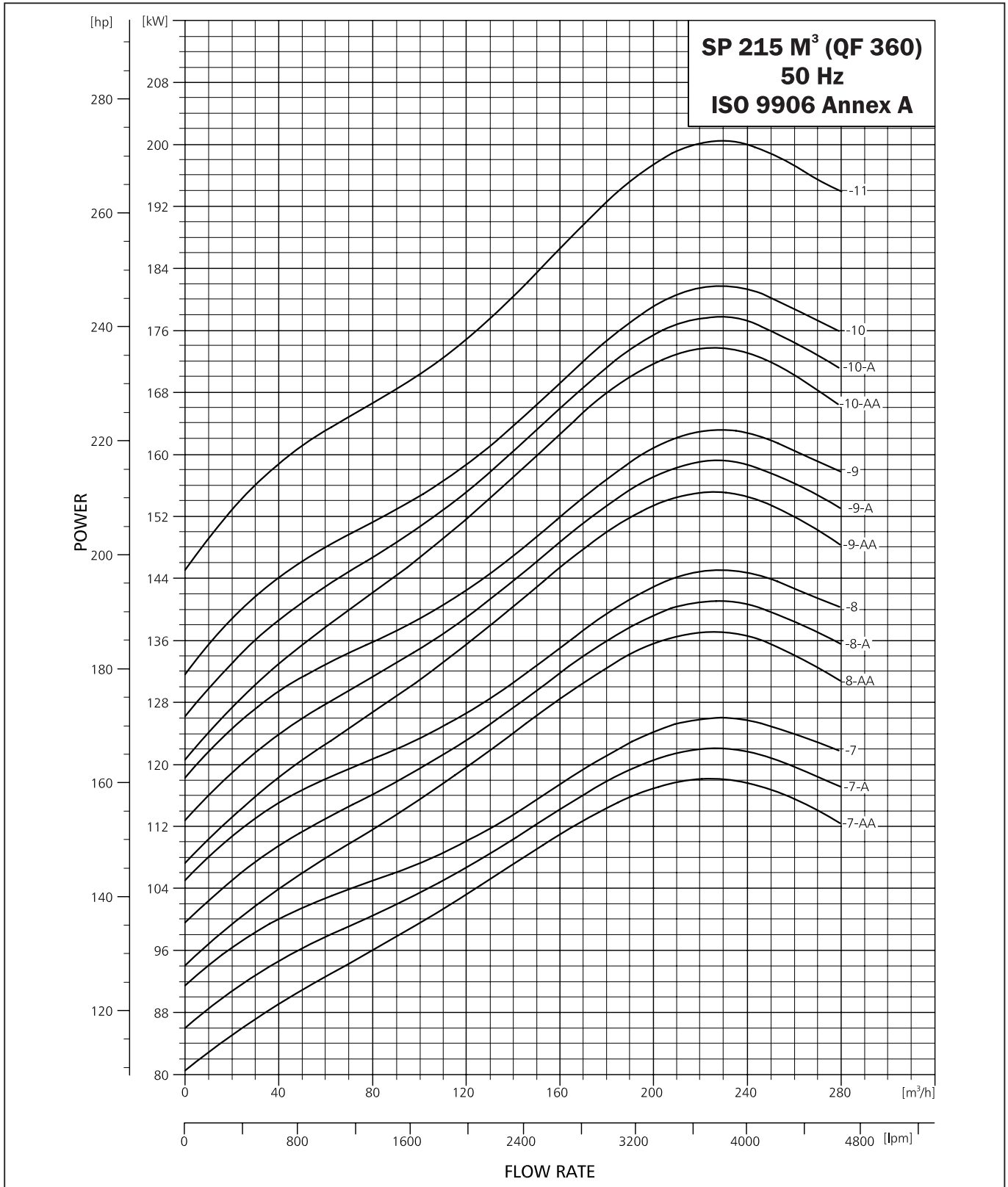
PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF360



PERFORMANCE CURVE

SUBMERSIBLE PUMPS QF360



360 MM WELL SIZE (14")

- **Models**

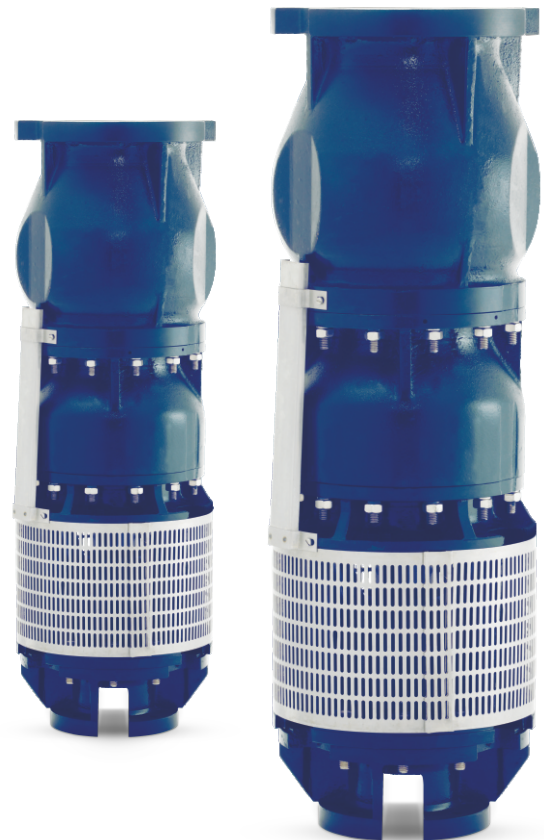
SSP 270 (SP 270 G m³/h)
SSP 300 (SP 300 G m³/h)
SSP 360 (SP 360 G m³/h)

- **Operating Condition**

Flow Rate, Q - 24 - 430 m³/h
Head, H - Max. 410 meter

- **Material**

Diffuser - Cast Iron
Impeller - Bronze



GENERAL DATA

PUMP RANGE

Type	SSP 270	SSP 300	SSP 360
Cast Iron	+	+	+
DIN Connection	DIN 175	DIN 175	DIN 175

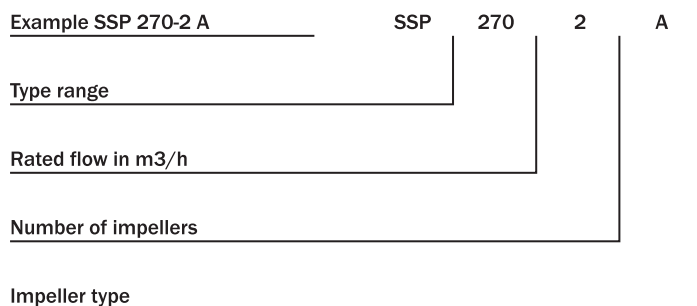
MOTOR RANGE

Motor Output [KW]	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



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 m³/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

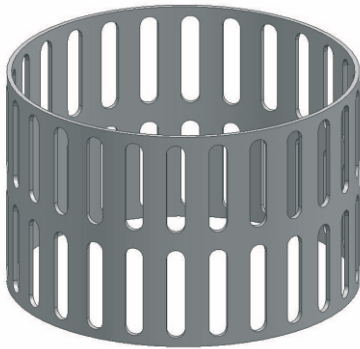
Bearings with sand channels

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)

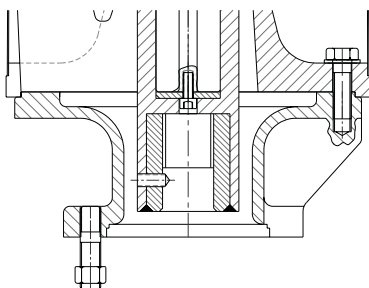
The inlet strainer prevents particles over a certain size from entering and damaging the pump.



(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.



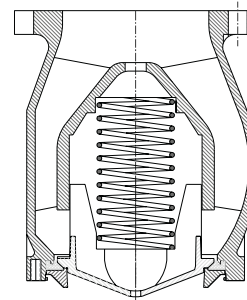
(Fig. no. 2)

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.

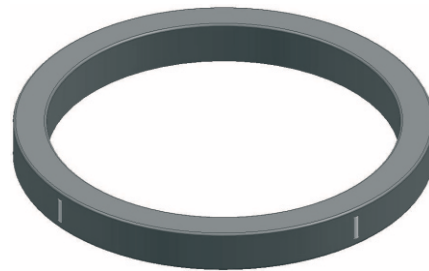


(Fig. no. 3)

NECK RING (fig. no. 4)

All pumps have a replaceable neck ring in each chamber.

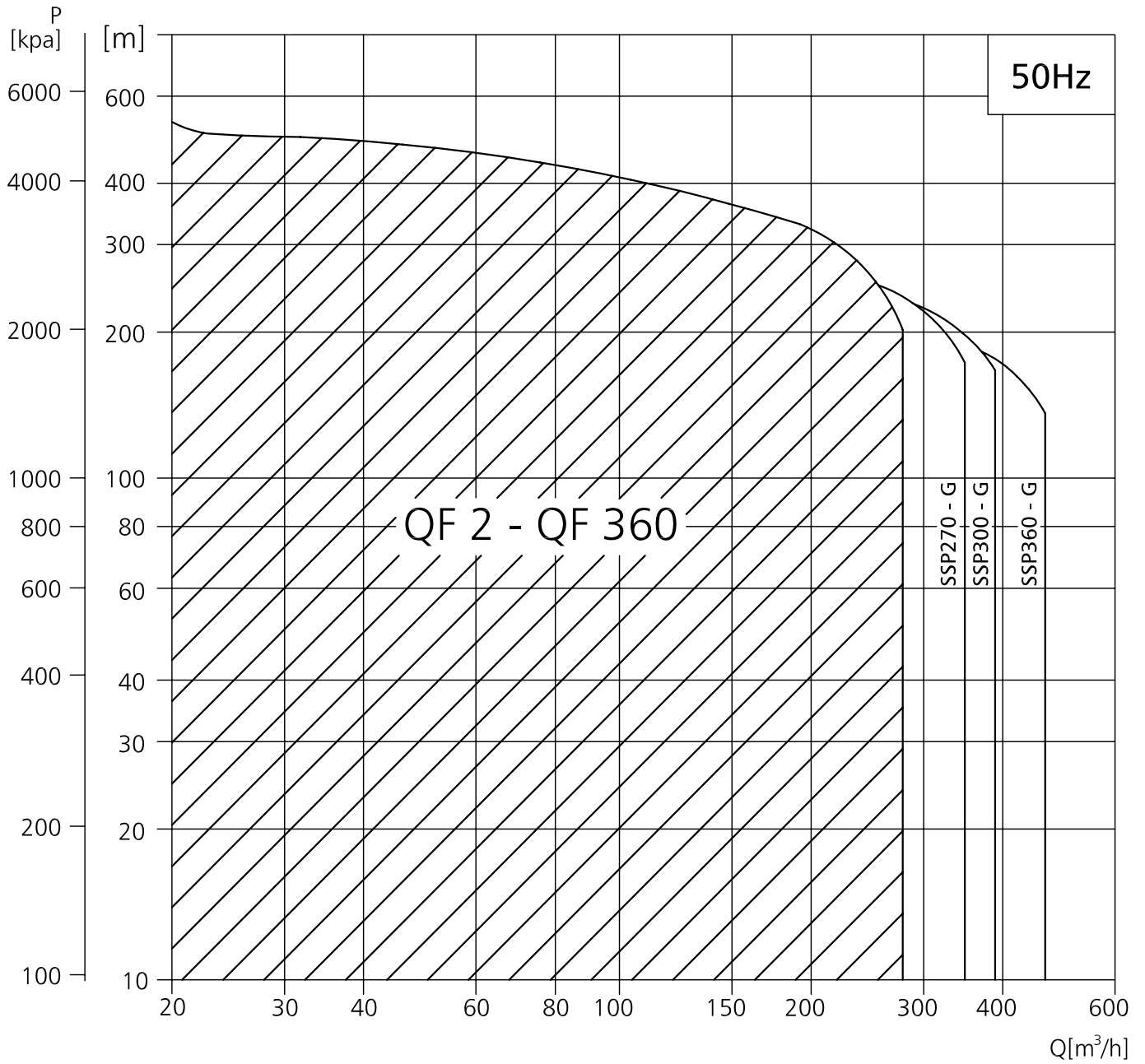
This means that the neck ring can be replaced easily in case of wear.



(Fig. no. 3)

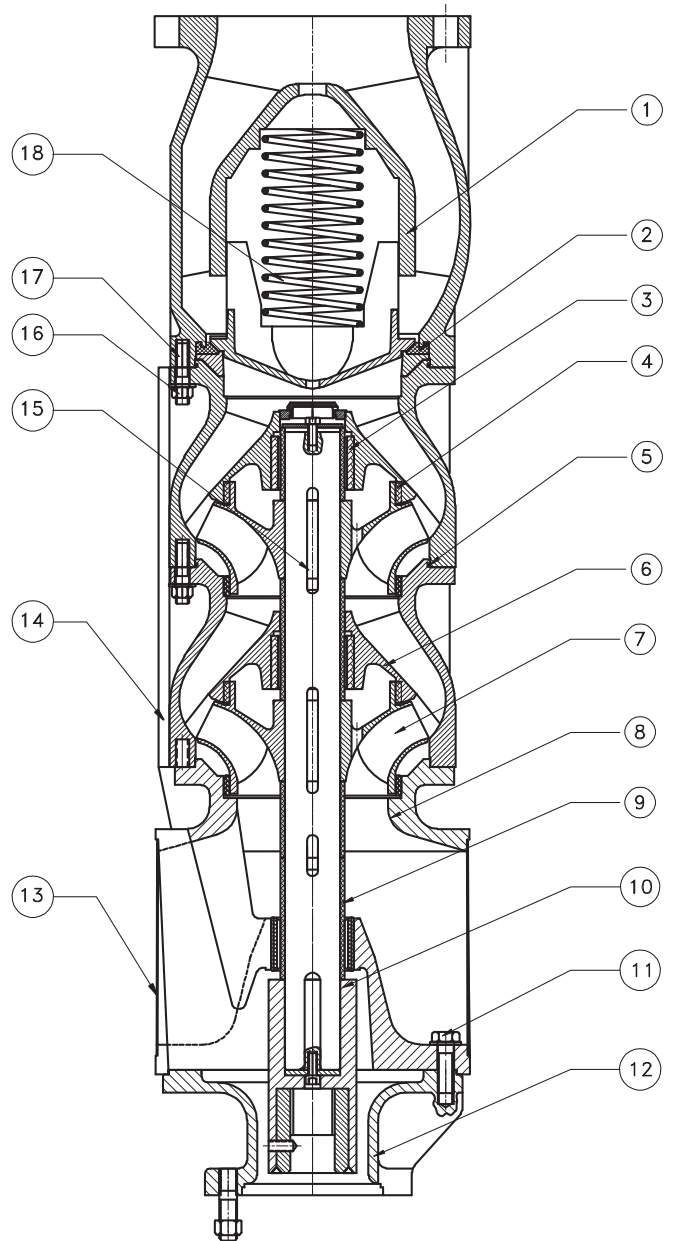
PERFORMANCE CURVE

PERFORMANCE RANGE



MATERIAL SPECIFICATION SSP-270

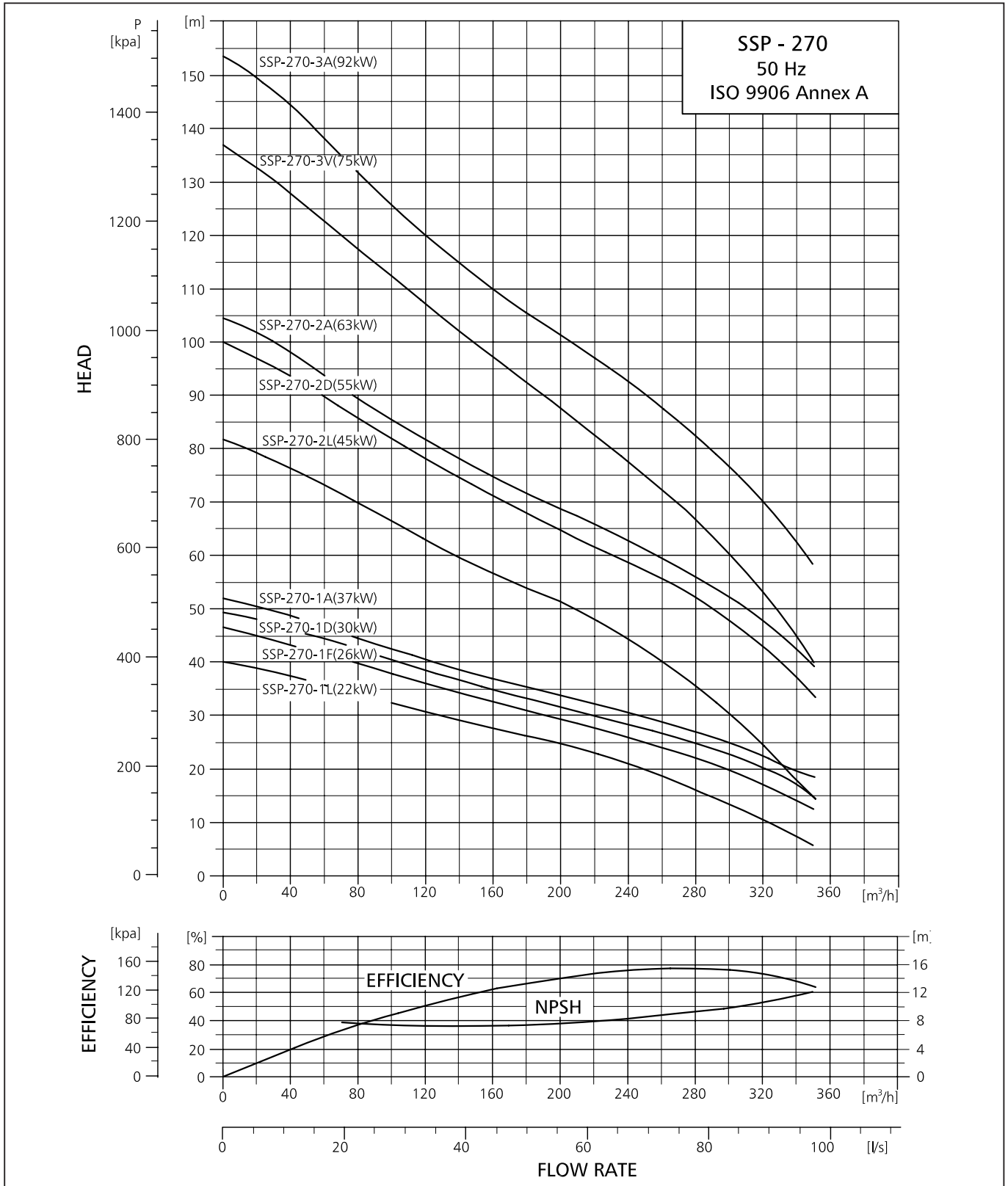
POS. No.	DISCRIPTION	MATERIALS	GRADE
1	VALVE CASTING	CAST IRON	CI-F0-260
2	NECKRING	RUBBER	N8R
3	BUSH	BRONZE	LT82
4	VALVE SEAT	BRONZE	LTB2
5	O-RING	RUBBER	NBR
6	BOWL	CAST IRON	CI-FG-260
7	IMPELLER	BRONZE	LTB2
8	SUCTION CASE	CAST IRON	CI-PG-260
9	BEARING SLEEVE	BRONZE	LTB2
10	COUPUNG	STAINLESS STEEL	AISI-SS-304
11	FASTNER	STAINLESS STEEL	AISI-SS-304
12	SUCTION CASE ADOPTOR	CAST IRON	CI-FG-260
13	STRAINER	MS	*****
14	CABLE GAURD	STAINLESS STEEL	AISI-SS-304
15	SHAFT KEY	STAINLESS STEEL	AISI-SS-304?
16	NUT	STAINLESS STEEL	AISI-SS-304
17	STUD	STAINLESS STEEL	AISI-SS-304
18	SPRING FOR VALVE CUP	STAINLESS Si LLL	AISI-SS-304



SECTIONAL VIEW OF SSP-270 PUMP ASSLY.

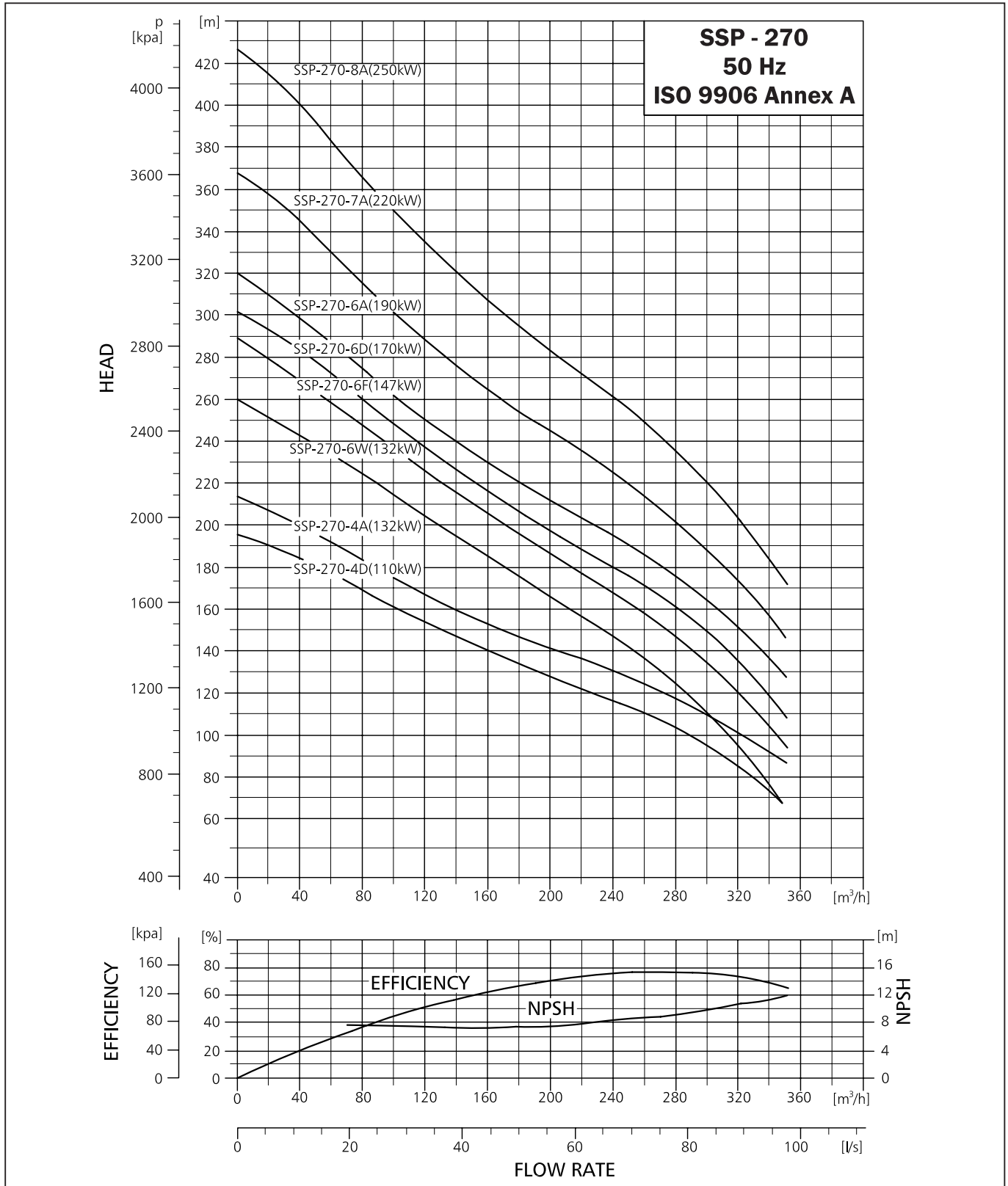
PERFORMANCE CURVE

PERFORMANCE RANGE



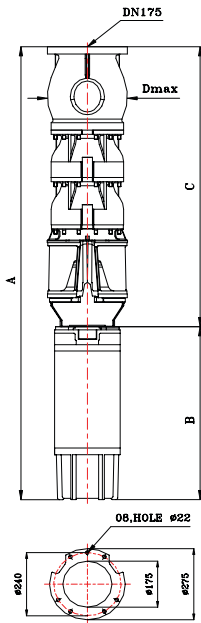
PERFORMANCE CURVE

SSP - 270



TECHNICAL DATA & PERFORMANCE TABLE SSP 270

DIMENSIONS & WEIGHTS



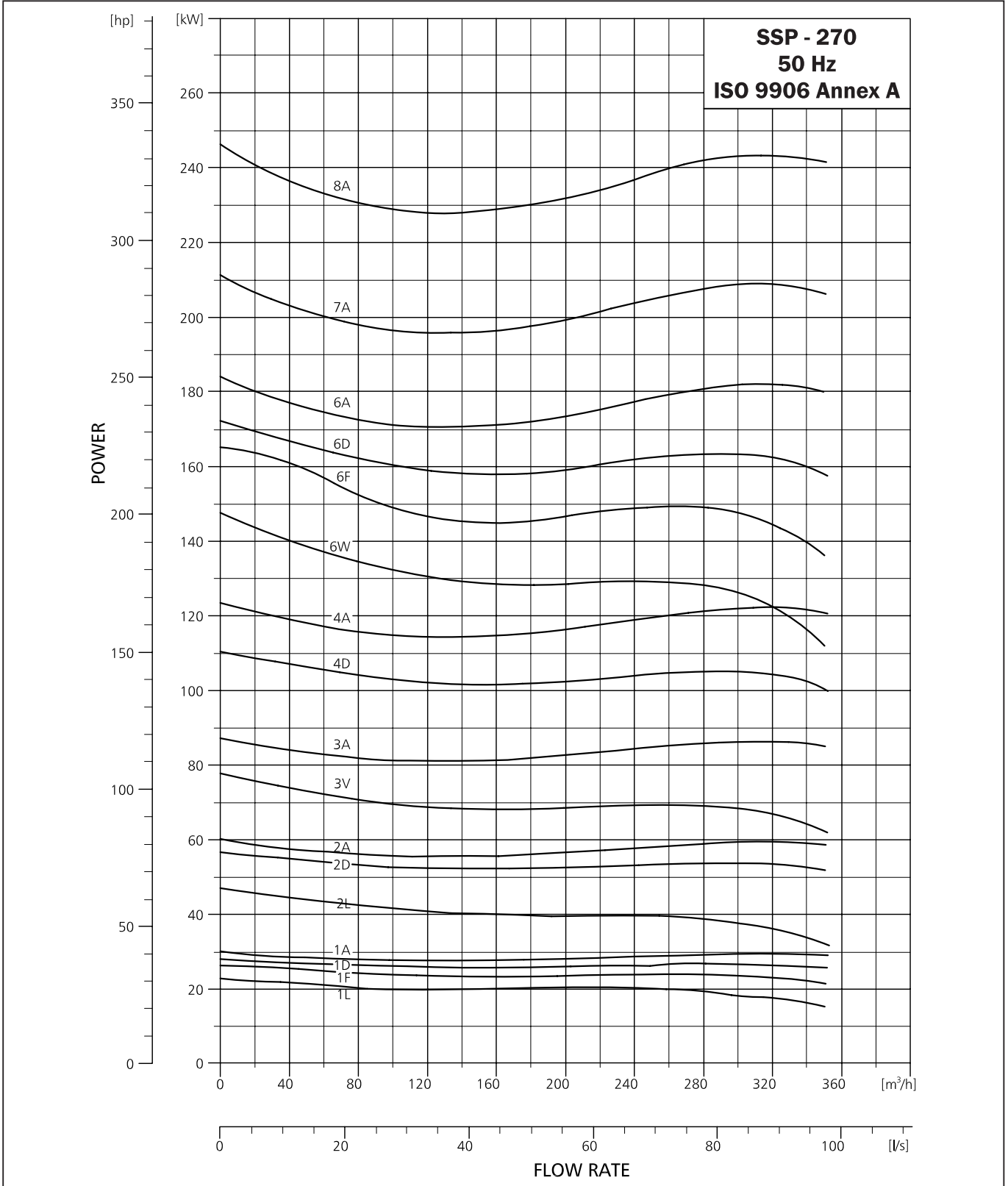
TECHNICAL DATA SSP 270							
PUMP TYPE	MOTOR		DIMENSIONS (mm)				NET WEIGHT [KG] PUMP SET
	TYPE	POWER (KW)	C	B	A	D	
SSP 270-1L	MTSF-C200	22	885	1085	1970	285	266
SSP 270-1F	MTSF-C200	26	885	1085	1970	285	274
SSP 270-1D	MTSF-C200	30	885	1140	2025	285	286
SSP 270-1A	MTSF-C200	37	885	1140	2025	285	296
SSP 270-2L	MTSF-C200	45	1065	1230	2295	285	342
SSP 270-2D	MTSF-C200	55	1065	1340	2405	285	357
SSP 270-2A	MTSF-C200	63	1065	1470	2535	285	383
SSP 270-3V	MTSF-C200	75	1245	1560	2805	285	427
SSP 270-3A	MTSF-C200	92	1245	1740	2985	285	473
SSP 270-4D	MTSF10"	110	1425	1529	2954	285	523
SSP 270-4D	MTSF10"	110	1425	1529	2954	285	605
SSP 270-4A	MTSF10"	132	1425	1659	3084	285	655
SSP 270-6W	MTSF10"	132	1785	1659	3444	285	705
SSP 270-6F	MTSF10"	147	1785	1769	3554	285	770
SSP 270-6D	MTSF10"	170	1785	1919	3704	285	890
SSP 270-6A	MTSF10"	190	1785	1919	3704	285	935
SSP 270-7A	MOTOR12"	220	1965	1893	3858	285	1010
SSP 270-8A	MOTOR12"	250	2145	1893	4038	285	1100

PERFORMANCE TABLE SSP 270												
MODEL		MOTOR RATING		DISCHARGE (Q)								
				m ³ /h		l/min.						
				0	40	80	120	160	200	240	280	320
SSP 270				0	668	1336	2004	2672	3340	4008	4676	5344
		[KW]	[HP]	TOTAL HEAD IN [m]								
SSP270-1 L	22	30	41	38	34	30	28	25	21	17	10	
SSP270-1F	26	35	47	44	40	37	33	30	27	23	18	
SSP270-1D	30	40	49	47	43	39	35	32	29	25	20	
SSP270-1A	37	50	52	49	45	41	37	33	30	27	23	
SSP270-2L	45	60	80	76	69	62	56	50	44	35	24	
SSP270-2D	55	74	98	92	85	77	70	63	58	51	42	
SSP270-2A	63	85	103	96	88	80	73	68	62	55	46	
SSP270-3V	75	100	136	128	117	106	96	87	73	67	51	
SSP270-3A	92	125	155	145	133	121	111	102	93	83	71	
SSP270-4D	110	150	197	185	170	155	141	129	117	104	87	
SSP270-4A	132	177	207	194	178	162	149	137	126	113	96	
SSP270-6W	132	177	253	238	219	199	181	162	143	119	90	
SSP270-6F	147	197	283	266	242	220	199	181	164	144	115	
SSP270-6D	185	252	296	277	255	234	213	194	177	158	132	
SSP270-6A	190	255	311	290	267	243	223	205	189	170	146	
SSP270-7A	220	295	362	338	310	283	260	239	221	197	169	
SSP270-8A	250	335	414	387	355	324	297	274	252	226	193	

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

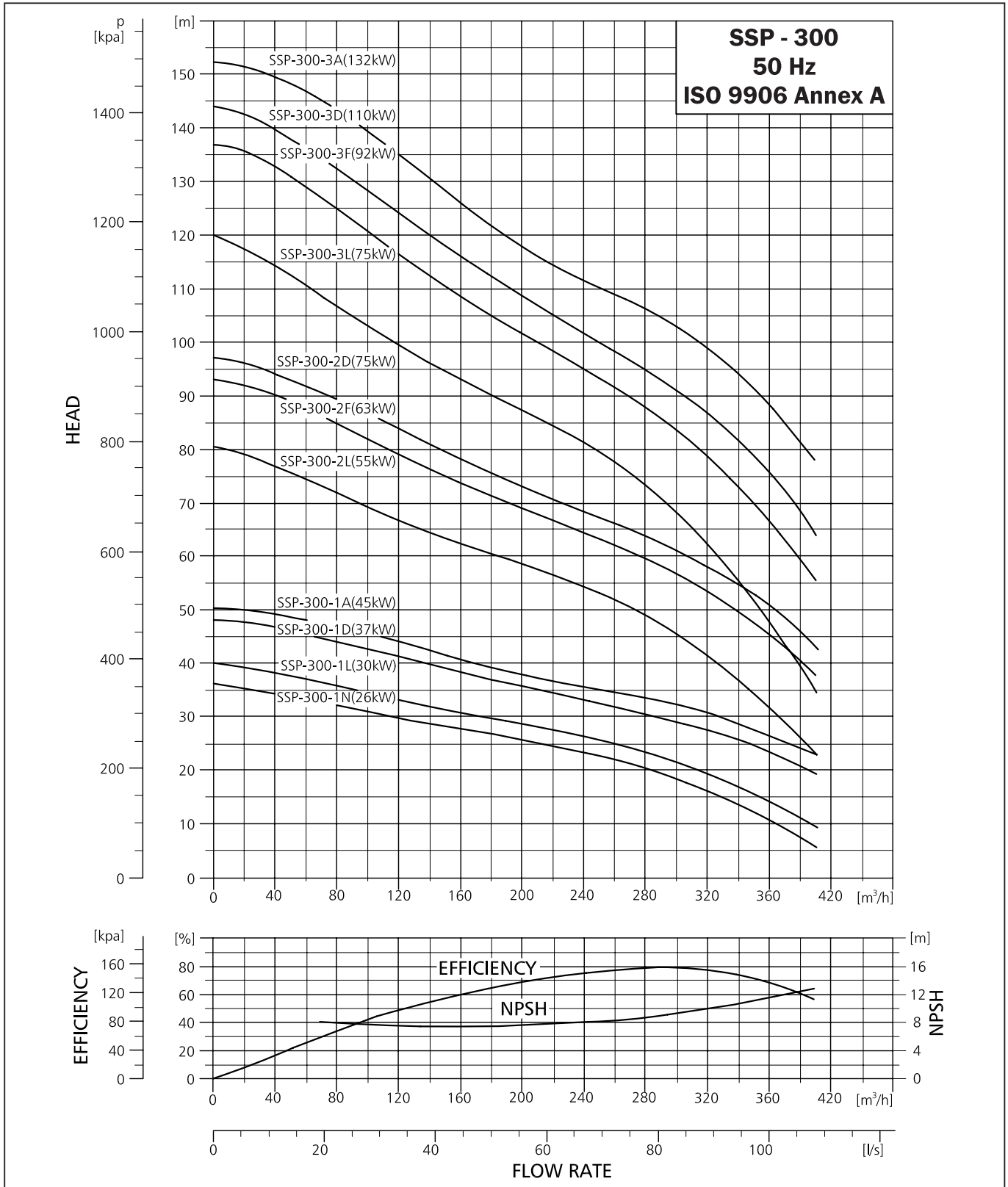
PERFORMANCE CURVE

SSP - 270

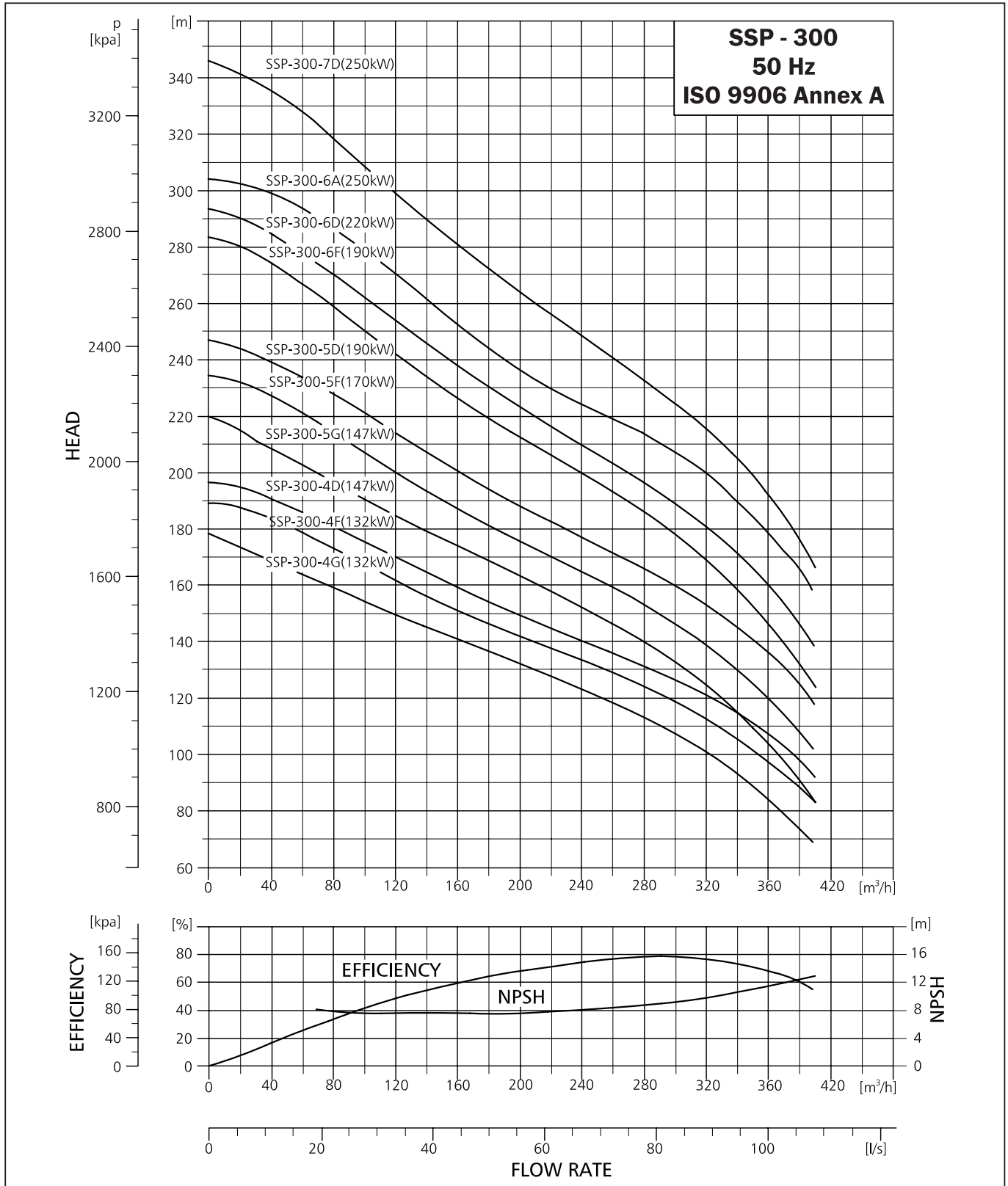


PERFORMANCE CURVE

SSP - 300

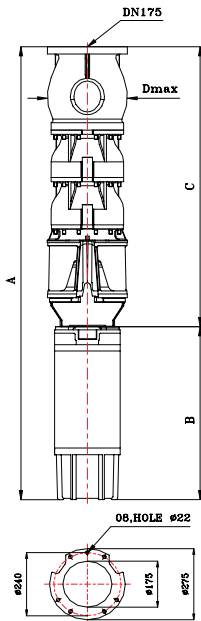


SSP - 300



TECHNICAL DATA & PERFORMANCE TABLE SSP 300

DIMENSIONS & WEIGHTS



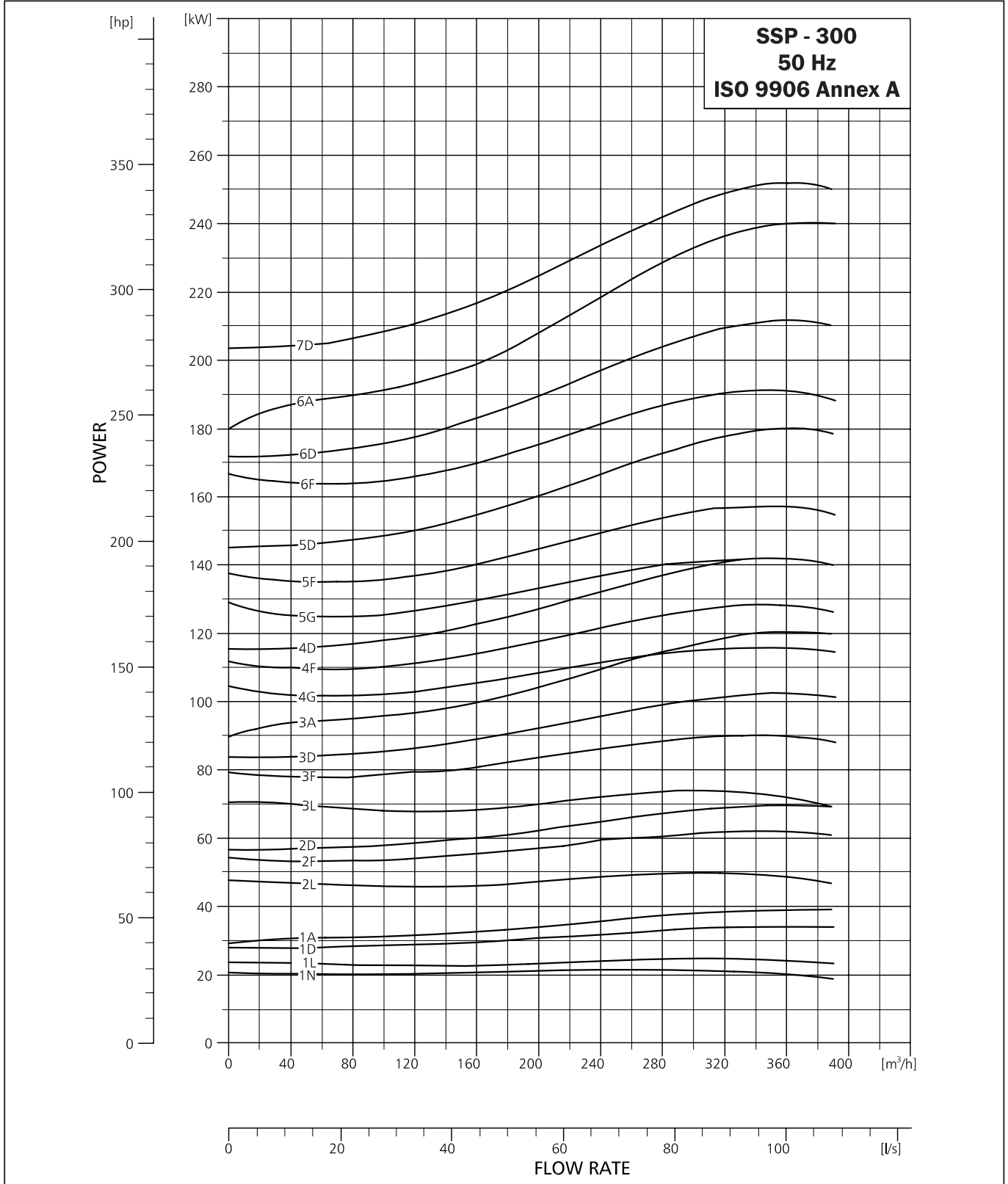
TECHNICAL DATA SSP 300							
PUMP TYPE	MOTOR		DIMENSIONS (mm)				NET WEIGHT [KG] PUMP SET
	TYPE	POWER (KW)	C	B	A	D	
SSP300-1 N	MTSF200	26	885	1085	1970	192	266
SSP300-1L	MTSF200	30	885	1140	2025	192	286
SSP300-1D	MTSF200	37	885	1140	2025	192	296
SSP300-1A	MTSF200	45	885	1230	2115	192	317
SSP300-2L	MTSF200	55	1065	1340	2405	192	357
SSP300-2F	MTSF200	63	1065	1470	2535	192	383
SSP300-2D	MTSF200	75	1065	1560	2625	192	402
SSP300-3L	MTSF200	75	1245	1560	2805	192	427
SSP300-3F	MTSF200	92	1245	1740	2985	192	473
SSP300-3D	MTSF10 "	110	1245	1529	2774	192	523
SSP300-3D	MTSF10 "	110	1245	1529	2774	237	580
SSP300-3A	MTSF10 "	132	1245	1659	2904	237	630
SSP300-4G	MTSF10 "	132	1425	1659	3084	237	655
SSP300-4F	MTSF10 "	132	1425	1659	3084	237	655
SSP300-4D	MTSF10 "	147	1425	1769	3194	237	720
SSP300-5G	MTSF10 "	147	1605	1769	3374	237	745
SSP300-5F	MTSF10 "	185	1605	1919	3524	286	865
SSP300-5D	MOTOR12 "	190	1605	1743	3348	286	910
SSP300-6F	MOTOR12 "	190	1785	1743	3528	286	935
SSP300-6D	MOTOR12 "	220	1785	1743	3528	286	985
SSP300-6A	MOTOR12 "	250	1785	1893	3678	286	1060
SSP300-7D	MOTOR12 "	250	1965	1893	3858	286	1085

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	MOTOR RATING		TOTAL HEAD IN [m]									
	[KW]	[HP]										
SSP300-1 N	26	35	37	34	32	29	28	26	23	21	16	10
SSP300-1L	30	40	38	35	33	30	29	27	24	22	17	11
SSP300-1D	37	50	48	46	44	41	39	36	34	31	28	24
SSP300-1A	45	60	49	48	46	44	41	38	36	33	30	26
SSP300-2L	55	74	80	76	71	66	62	58	54	49	41	31
SSP300-2F	63	84	92	89	84	78	73	68	64	59	53	45
SSP300-2D	75	101	93	90	85	79	74	69	65	60	54	46
SSP300-3L	75	101	119	114	106	98	93	87	81	72	62	47
SSP300-3F	92	123	138	134	126	118	110	103	96	89	80	68
SSP300-3D	110	148	145	140	133	125	117	109	103	99	87	76
SSP300-3A	132	177	149	146	140	131	123	115	108	102	95	85
SSP300-4G	132	177	173	165	155	146	137	128	119	109	96	79
SSP300-4F	132	177	185	179	168	157	147	138	129	120	108	92
SSP300-4D	147	197	193	187	178	167	156	146	137	128	118	102
SSP300-5G	147	197	216	204	193	181	170	159	148	135	120	98
SSP300-5F	185	252	231	224	211	197	184	172	162	150	135	116
SSP300-5D	190	255	242	234	222	209	195	183	172	161	148	136
SSP300-6F	190	255	276	268	252	236	230	206	194	180	162	139
SSP300-6D	220	295	290	280	266	250	234	219	206	193	177	156
SSP300-6A	250	335	297	292	279	263	245	230	217	206	192	171
SSP300-7D	250	335	337	327	310	291	272	256	240	224	206	182

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

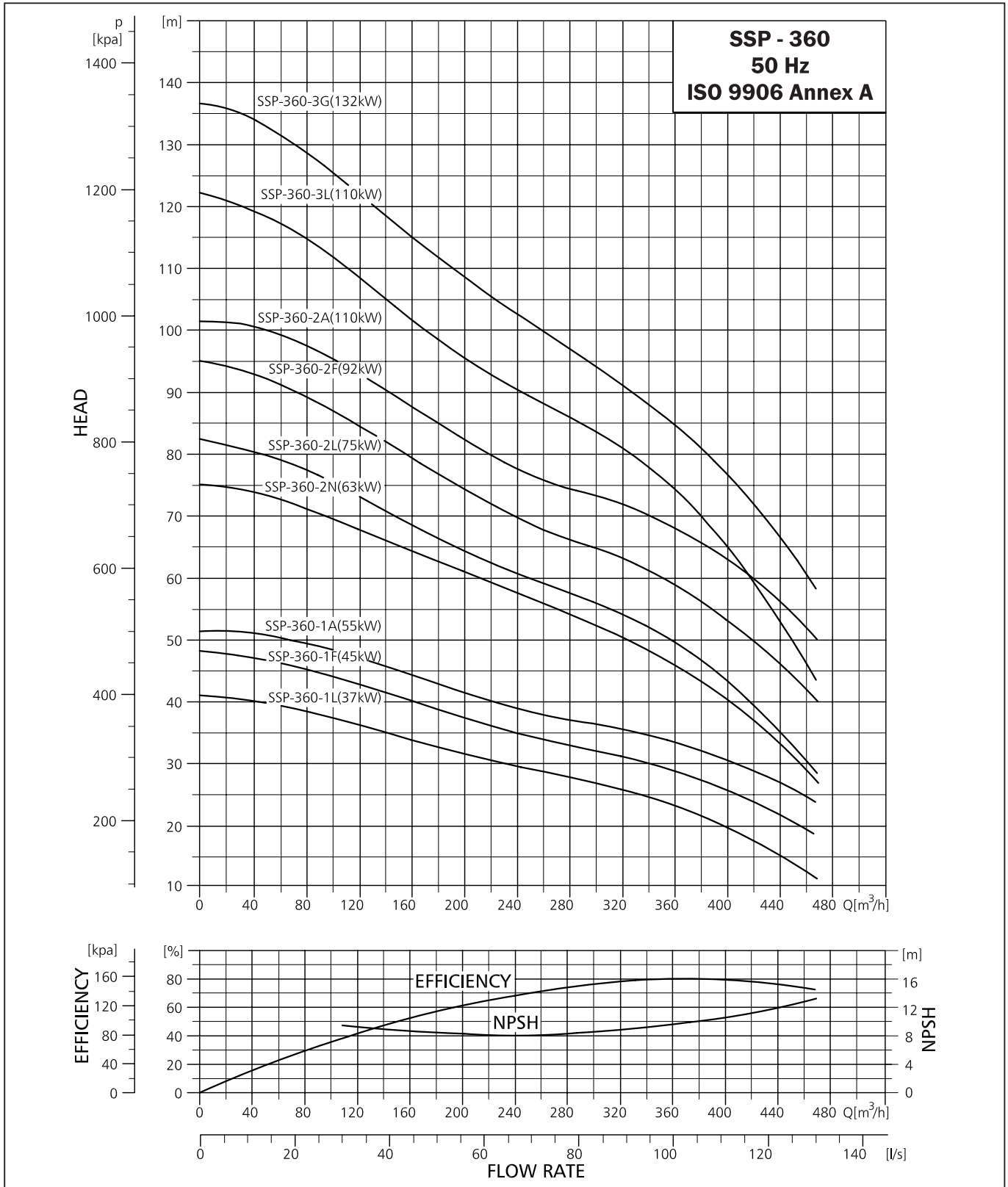
PERFORMANCE CURVE

SSP - 300



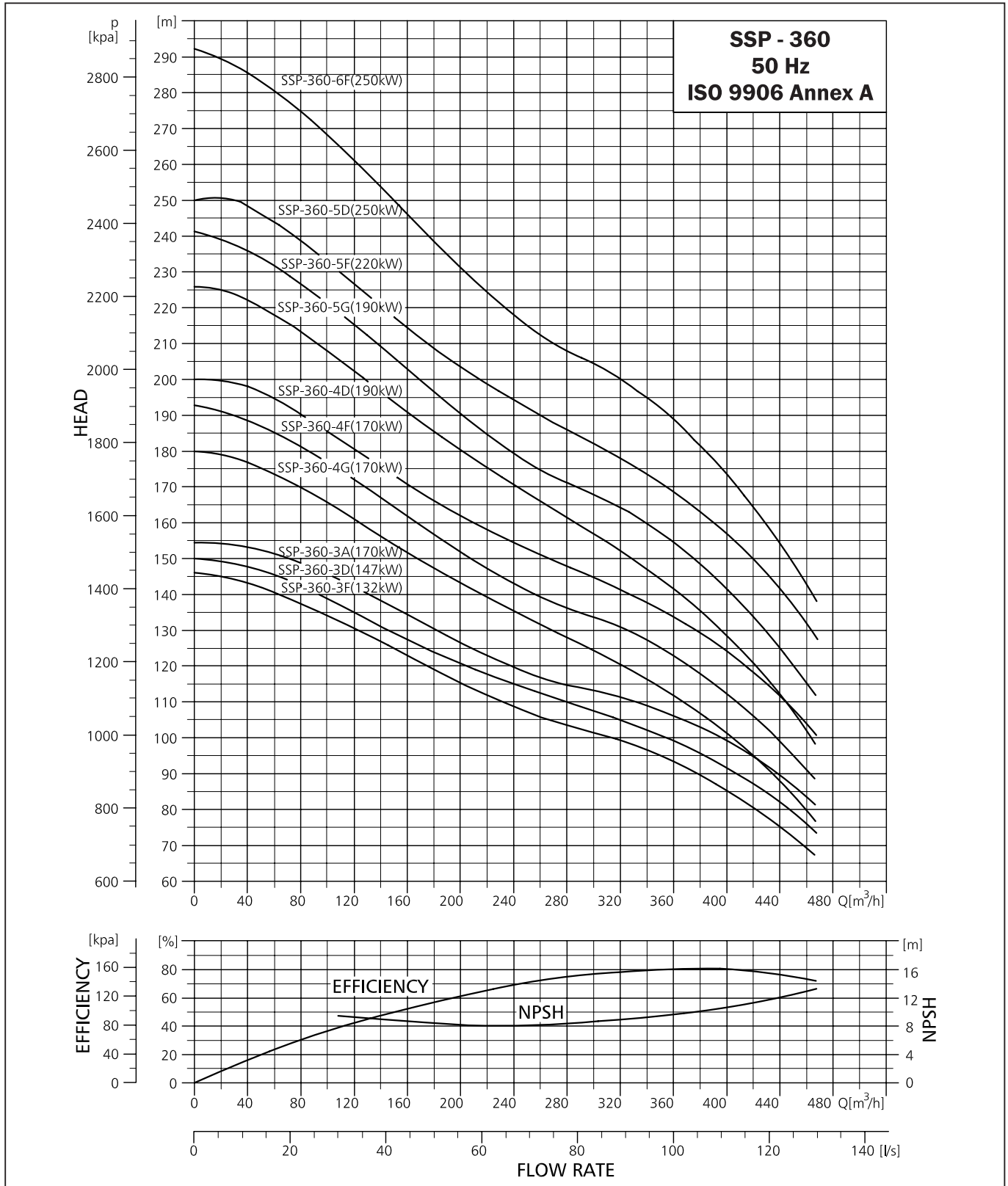
PERFORMANCE CURVE

SSP - 360



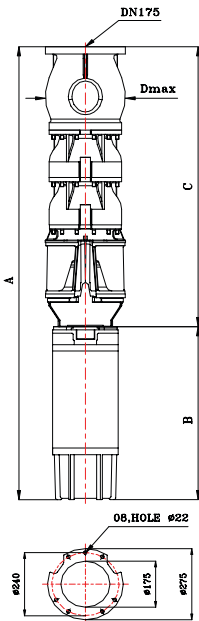
PERFORMANCE CURVE

SSP - 360



TECHNICAL DATA & PERFORMANCE TABLE SSP 360

DIMENSIONS & WEIGHTS



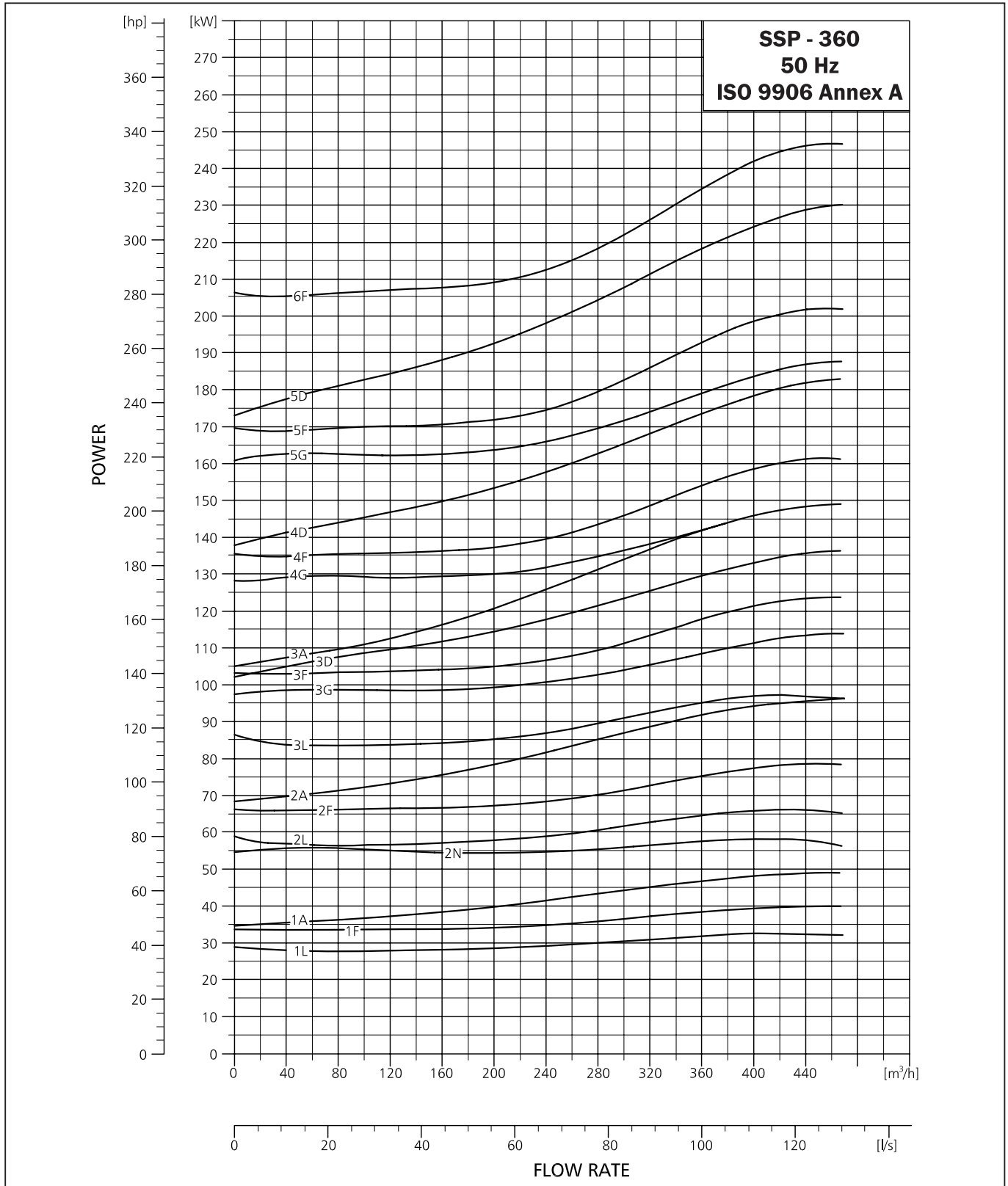
TECHNICAL DATA SSP 360							
PUMP TYPE	MOTOR		DIMENSIONS (mm)				NET WEIGHT [KG] PUMP SET
	TYPE	POWER (KW)	C	B	A	D	
SSSP 360-1L G	MTSF200	37	885	1140	2025	285	296
SSSP 360-1F G	MTSF200	45	885	1230	2115	285	317
SSSP 360-1A G	MTSF200	55	885	1340	2225	285	332
SSSP 360-2N G	MTSF200	63	1065	1470	2535	285	383
SSSP 360-2L G	MTSF200	75	1065	1560	2625	285	402
SSSP 360-2F G	MTSF200	92	1065	1740	2805	285	448
SSSP 360-2A G	MTSF10 "	110	1065	1529	2594	285	498
SSSP 360-3L G	MTSF10 "	110	1245	1529	2774	285	523
SSSP 360-2A G	MTSF10 "	110	1065	1529	2594	285	555
SSSP 360-3L G	MTSF10 "	110	1245	1529	2774	285	580
SSSP 360-3G G	MTSF10 "	132	1245	1659	2904	285	630
SSSP 360-3F G	MTSF10 "	132	1245	1659	2904	285	630
SSSP 360-3D G	MTSF10 "	147	1245	1769	3014	285	695
SSSP 360-3A G	MTSF10 "	170	1245	1919	3164	285	805
SSSP 360-4G G	MTSF10 "	170	1425	1919	3344	285	840
SSSP 360-4F G	MTSF10 "	170	1425	1919	3344	285	840
SSSP 360-4D G	MTSF10 "	190	1425	1919	3344	285	885
SSSP 360-5G G	MTSF10 "	190	1605	1919	3524	285	910
SSSP 360-5F G	MASF12 "	220	1605	1893	3498	285	960

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	6012	6680	7348
MODEL	MOTOR RATING		TOTAL HEAD IN [m]											
	[KW]	[HP]	41	39	38	36	34	31	30	28	26	23	20	15
SSP360-1L	37	50	41	39	38	36	34	31	30	28	26	23	20	15
SSP360-1F	45	60	47	47	45	42	39	37	35	33	31	28	25	21
SSP360-1A	55	75	51	50	48	47	44	41	38	37	35	33	30	26
SSP360-2N	63	85	74	73	70	67	63	59	56	52	47	42	36	28
SSP360-2L	75	100	82	79	76	73	69	64	60	57	54	49	43	34
SSP360-2F	93	125	96	95	90	85	79	74	70	67	63	59	54	47
SSP360-2A	110	150	102	101	98	93	88	83	78	75	72	68	64	57
SSP360-3L	110	150	123	119	115	109	103	97	91	86	82	75	66	53
SSP360-3G	132	177	133	131	126	119	112	106	100	94	88	82	74	63
SSP360-3F	132	177	143	141	135	127	119	112	106	101	96	70	82	72
SSP360-3D	147	204	147	146	140	132	125	118	113	108	103	97	89	79
SSP360-3A	147	204	153	152	147	140	132	124	118	113	109	104	97	87
SSP360-4G	170	230	178	174	167	159	150	141	133	126	118	110	99	85
SSP360-4F	170	230	190	188	180	169	158	149	141	135	128	120	110	96
SSP360-4D	185	252	196	194	186	176	167	158	150	144	137	130	120	107
SSP360-5G	185	252	221	217	208	197	186	175	166	157	147	137	123	106
SSP360-5F	220	295	238	236	225	212	198	187	177	169	161	151	139	122
SSP360-5D	250	335	246	243	233	221	209	198	189	181	173	163	150	134
SSP360-6F	250	335	286	282	270	253	237	223	212	202	193	182	166	147

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

PERFORMANCE CURVE

SSP - 360



SUBMERSIBLE MOTORS

1 X 230 V, SUBMERSIBLE REWINDABLE MOTORS

1 X 230 V, SUBMERSIBLE REWINDABLE MOTORS ELECTRICAL DATA

MOTOR			FULL LOAD CURRENT (IN A)	MOTOR EFFICIENCY (%)			POWER FACTOR			CAPACITOR		DIMENSION	
TYPE	SIZE	POWER (KW)		η 50%	η 75%	η 100%	COS φ			START	RUN	LENGTH (mm)	WEIGHT (Kg)
							50%	75%	100%				
MCI 100	4"	0.37	4.00	50.50	56.00	60.00	0.50	0.61	0.67	43-52μF, 330V	-	486.00	15.00
MCI 100	4"	0.55	5.80	51.60	51.60	68.00	0.52	0.65	0.75	64-77μF, 330V	-	486.00	15.50
MCI 100	4"	0.75	6.20	58.50	65.00	72.00	0.58	0.72	0.82	88-106μF, 330V	40μF, 450V	486.00	16.00
MCI 100	4"	1.10	9.00	59.00	64.00	68.00	0.59	0.65	0.76	100-120μF, 330V	50μF, 450V	536.00	18.00
MCI 100	4"	1.50	11.00	58.00	63.50	70.00	0.75	0.85	0.93	-	50μF, 450V	586.00	20.00
MCI 100	4"	2.20	15.25	56.50	63.00	68.00	0.76	0.85	0.94	-	75μF, 440V	636.00	25.00

* PERFORMANCE IS TYPICAL, NOT GUARANTEED.

DATA APPLY TO 1X 230 V

1 X 230 V, SUBMERSIBLE REWINDABLE MOTORS PERFORMANCE DATA

MOTOR			THRUST F [N]	UN [V]	Nn [min-1]	FULL LOAD CURRENT (IN A)	MOTOR EFFICIENCY (%)			POWER FACTOR			CAPACITOR		DIMENSION	
TYPE	SIZE	PN (KW)					η 50%	η 75%	η 100%	COS φ			START	RUN	LENGTH (mm)	WEIGHT (Kg)
										50%	75%	100%				
RO 100	0.5	0.37	1500	230	2860	4	48	54	57	0.58	0.68	0.77	43-52μF/ 330V	40μF, 450V	393	8
RO 100	0.75	0.55	1500	230	2860	6	50	57	60	0.52	0.65	0.74	64-77μF/ 330V	50μF, 450V	408	9
RO 100	1	0.75	1500	230	2835	7.5	52	58	60	0.57	0.69	0.79	88-106μF/ 330V	60μF, 450V	424	10
RO 100	1.5	1.1	3000	230	2830	9	62	70	72	0.99	0.99	0.99	100-120μF, 230-275V	75V 35μF, 450V	464	12
RO 100	2	1.5	3000	230	2810	10	57	67	70	0.91	0.96	0.98	100-120μF, 230-275V	-	464	13
RO 101	3	2.2	6500	230	2885	16	61	68	70	0.72	0.82	0.88	120-150μF, 230-275V	-	627	18
RO 101	5	3.7	6500	230	2885	22	69	75	76	0.90	0.95	0.98	189-227μF, 270V	-	779	20

* PERFORMANCE IS TYPICAL, NOT GUARANTEED.

DATA APPLY TO 1X 230 V

3 X 230, 3 X 380, 3 X 400, 3 X 415V, SUBMERSIBLE MOTORS

RO 100 & RO 101 REWINDABLE MOTORS PERFORMANCE DATA														
MOTOR			THRUST F [N]	UN [V]	Nn [min-1]	FULL LOAD CURRENT (IN A)	MOTOR EFFICIENCY (%)			POWER FACTOR			DIMENSION	
TYPE	SIZE	PN (KW)					η 50%	η 75%	η 100%	COS φ 50%	COS φ 75%	COS φ 100%	LENGTH (mm)	WEIGHT (Kg)
RO 100	0.5	0.37	1500	230	2860	3	51	59	64	0.44	0.55	0.64	343	8
				380	2850	1.3	51	59.5	64	0.44	0.55	0.70		
				400	2860	1.4	51	59.5	64	0.44	0.55	0.64		
				415	2870	1.5	50	59.5	63	0.43	0.54	0.60		
RO 100	0.75	0.55	1500	230	2860	4	49.5	57	64	0.42	0.52	0.64	358	9
				380	2850	2	49	57	64	0.42	0.52	0.70		
				400	2860	2.2	49	57	64	0.42	0.52	0.64		
				415	2870	2.4	48	56	63	0.41	0.57	0.60		
RO 100	1	0.75	1500	230	2835	4.2	64	70	73	0.50	0.62	0.72	393	10
				380	2850	2.2	64	70	73	0.50	0.63	0.75		
				400	2860	2.3	64	70	73	0.50	0.63	0.72		
				415	2870	2.4	63	68	73	0.41	0.62	0.65		
RO 100	1.5	1.1	3000	230	2830	6.2	62	69	73	0.47	0.59	0.72	424	12
				380	2850	3.3	63	69	73	0.47	0.59	0.76		
				400	2860	3.4	63	69	73	0.47	0.59	0.72		
				415	2870	3.2	62	68	73	0.41	0.58	0.65		
RO 100	2	1.5	3000	230	2810	8	56.5	66.5	70	0.91	0.96	0.98	464	13
				380	2850	4	68	73	75	0.50	0.64	0.80		
				400	2860	4	68	73	76	0.51	0.64	0.75		
				415	2870	4	67	72	76	0.51	0.63	0.70		
RO 100	3	2.5	3001	230	2810	10	72.5	72.5	76	0.56	0.71	0.82	464	13
				380	2850	5.5	72.5	72.5	77	0.56	0.71	0.82		
				400	2860	5.4	72.5	72.5	78	0.56	0.70	0.82		
				415	2870	5.3	71.5	74.5	78	0.54	0.70	0.82		
RO 101	3	2.2	6500	230	2840	10.2	69	73	75	0.51	0.64	0.75	474	18
				380	2815	5.8	72	75	75	0.58	0.72	0.81		
				400	2840	5.9	69	73	75	0.51	0.76	0.75		
				415	2870	6.3	66	71	73	0.45	0.59	0.69		
RO 101	4	3	6500	230	2830	13.5	71	74	76	0.51	0.65	0.75	541	19
				380	2850	7.5	73	76	76	0.58	0.72	0.81		
				400	2830	7.8	70	74	76	0.51	0.65	0.75		
				415	2850	8.2	67	73	75	0.46	0.59	0.70		
RO 101	5	3.7	6500	230	2860	15.8	73	77	77	0.55	0.70	0.79	579	20
				380	2850	9.0	75	78	77	0.64	0.76	0.84		
				400	2830	9.1	73	77	77	0.55	0.70	0.79		
				415	2850	9.4	71	76	76	0.51	0.64	0.74		
RO 101	5.5	4	6500	230	2860	17.3	73	77	78	0.56	0.69	0.78	617	25
				380	2855	9.8	75	78	77	0.63	0.76	0.84		
				400	2835	10.0	73	77	78	0.56	0.69	0.78		
				415	2855	10.3	71	76	77	0.50	0.63	0.73		
RO 101	7.5	5.5	6500	230	2870	23.7	71	75	76	0.57	0.70	0.79	731	27
				380	2850	13.5	73	76	76	0.64	0.76	0.84		
				400	2855	13.7	71	75	76	0.57	0.70	0.79		
				415	2860	14.2	69	74	75	0.52	0.65	0.74		
RO 101	10	7.5	6500	230	2800	18.7	70	74	74	0.65	0.77	0.74	808	31
				380	2820	18.8	68	73	74	0.57	0.70	0.79		
				400	2820	17.4	74	77	77	0.56	0.70	0.79		
				415	-	-	-	-	-	-	-	-		

SUBMERSIBLE MOTORS

3 X 380, 3 X 400, 3 X 415, SUBMERSIBLE REWINDABLE MOTORS

MTSF 150 REWINDABLE MOTORS PERFORMANCE DATA																
HP	PN (KW)	THRUST F [N]	UN [V]	Nn [min-1]	IN [A]	IA [A]	n (Eff.) [%] bei % load			COS ? (PF) bei % load			TN [Nm]	TA [Nm]	DIMENSION	
							50	75	100	50	75	100			LENGTH	WEIGHT
5.5	4	15500	380	2910	10.4	48	0.71	0.75	0.76	0.59	0.71	0.78	13.1	15.5	699	48
			400	2930	10.6	51	0.68	0.73	0.76	0.53	0.65	0.73	13.1	17.3		
			415	2930	10.9	53	0.65	0.72	0.76	0.50	0.61	0.69	13.0	18.8		
7.5	5.5	15500	380	2860	13.7	48	0.74	0.76	0.75	0.67	0.78	0.83	18.3	15.5	699	411
			400	2890	13.3	51	0.72	0.76	0.76	0.62	0.74	0.81	18.1	17.3		
			415	2890	13.4	53	0.71	0.75	0.75	0.59	0.71	0.78	18.1	18.8		
10	73	15500	380	2860	18.3	59	0.77	0.78	0.76	0.70	0.80	0.84	25.0	19.2	719	50
			400	2880	17.7	63	0.75	0.78	0.77	0.65	0.76	0.82	24.8	21.5		
			415	2890	17.7	65	0.73	0.77	0.77	0.61	0.73	0.80	24.7	23.4		
12.5	9.3	15500	380	2850	22	74	0.79	0.80	0.78	0.71	0.80	0.84	31.1	25.9	749	53
			400	2870	21.4	78	0.78	0.79	0.78	0.64	0.76	0.82	31.0	29.0		
			415	2880	21.2	81	0.76	0.79	0.78	0.6	0.72	0.80	30.9	31.4		
15	11.0	15500	380	2860	25.8	93	0.78	0.80	0.79	0.65	0.76	0.83	36.7	31.5	779	56
			400	2880	25.2	98	0.77	0.80	0.79	0.65	0.76	0.83	36.4	35.3		
			415	2890	25.1	102	0.75	0.78	0.79	0.69	0.73	0.80	36.3	38.2		
17.5	13.0	15500	380	2880	30.1	118	0.80	0.81	0.80	0.68	0.79	0.84	43.1	45.0	829	61
			400	2900	29.6	125	0.78	0.80	0.80	0.61	0.74	0.81	42.8	50.3		
			A15	2900	29.7	130	0.76	0.79	0.80	0.57	0.70	0.78	42.7	54.6		
20	15.0	15500	380	2880	33.9	140	0.81	0.82	0.81	0.71	0.81	0.85	49.7	53.9	874	66
			400	2890	33.1	148	0.79	0.81	0.81	0.65	0.77	0.83	49.4	60.4		
			415	2900	33.0	154	0.77	0.80	0.81	0.60	0.73	0.81	49.3	65.5		
25	18.5	15500	380	2860	42.3	172	0.81	0.82	0.81	0.68	0.78	0.84	61.7	75.2	919	70
			400	2880	42.0	182	0.78	0.81	0.81	0.61	0.74	0.80	61.2	84.3		
			415	2890	42.5	189	0.76	0.79	0.80	0.57	0.70	0.77	61.1	91.3		
30	22.0	15500	380	2880	49.1	218	0.82	0.84	0.83	0.68	0.78	0.84	72.6	91.1	1009	79
			400	2900	49.0	231	0.80	0.82	0.82	0.61	0.73	0.80	72.5	102.2		
			415	2910	49.6	240	0.77	0.81	0.82	0.56	0.69	0.77	72.2	110.7		
35	26	15500	380	2880	57.5	268	0.83	0.84	0.83	0.86	0.79	0.86	86.0	120.4	1114	90
			400	2900	66.7	284	0.81	0.83	0.83	0.61	0.74	0.83	85.6	134.7		
			415	2910	57.3	296	0.78	0.82	0.82	0.56	0.69	0.80	85.3	146.1		
40	30.0	27500	380	2900	66.4	328	0.82	0.84	0.83	0.67	0.78	0.84	98.8	135.0	1214	100
			400	2910	66.4	347	0.811	0.83	0.83	0.60	0.73	0.80	98.4	151.0		
			415	2910	67.5	361	0.77	0.81	0.82	0.55	0.68	0.77	98.2	163.0		
50	37	27500	380	2890	82.0	409	0.83	0.84	0.83	0.67	0.78	0.84	122.1	192.8	1294	107
			400	2900	81.9	433	0.80	0.83	0.83	0.60	0.72	0.80	121.6	215.8		
			415	2910	83.9	450	0.77	0.81	0.82	0.55	0.68	0.76	121.3	234.0		

3 X 380, 3 X 400, 3 X 415, SUBMERSIBLE REWINDABLE MOTORS

MCI 200 REWINDABLE MOTORS PERFORMANCE DATA																
HP	PN (KW)	THRUST F [N]	UN [V]	Nn [min-1]	IN [A]	IA [A]	n (Eff.) [%] bei % load			COS ? (PF) bei % load			TN [Nm]	TA [Nm]	DIMENSION	
							50	75	100	50	75	100			LENGTH	WEIGHT
							(mm)	(Kg)								
40	30	4500	380	2880	63	300	83.5	84.4	83.1	0.84	0.88	0.90	99	126	1140	140
			400	2900	60	318	83.6	85.0	84.3	0.80	0.87	0.89	99	141		
			415	2910	58	332	833	85.2	84.9	0.78	0.85	0.88	98	151		
50	37	4500	380	2890	79	378	84.6	85.3	113.9	0.80	0.86	0.88	122	156	1140	140
			400	2900	76	400	83.9	85.2	83.2	0.74	0.82	0.86	122	176		
			415	2910	75	412	82.6	84.5	84.3	0.70	0.80	0.84	121	190		
60	45	4500	380	2900	91	491	85.6	86.4	85.2	0.79	0.116	0.88	149	218	1230	156
			400	2910	90	520	85.3	86.5	85.2	0.74	0.82	0.86	148	241		
			415	2910	119	541	84.5	86.5	85.8	0.69	0.79	0.84	1411	263		
70	52	4500	380	2900	107	575	86.3	86.7	85.3	0.81	0.87	0.89	175	284	1340	179
			400	2910	103	608	86.4	87.1	86.2	0.76	0.84	0.87	175	318		
			415	2920	101	633	85.6	87.0	86.7	0.71	0.80	0.85	174	345		
75	55	4500	380	2900	114	624	116.3	86.9	85.7	0.78	0.85	0.88	182	301	1340	179
			400	2915	110	660	85.9	87.0	86.4	0.72	0.82	0.86	181	340		
			415	2920	109	688	85.8	86.4	86.2	0.78	0.78	0.84	181	366		
80	4500	400	380	2900	112	698	87.2	87.6	86.5	0.81	0.87	0.89	198	319	1470	198
			2910	116	725	86.8	87.7	87.0	0.77	0.84	0.88	197	357			
			415	2920	115	768	86.1	87.4	87.1	0.73	0.82	0.86	197	387		
85	67	4500	380	2900	137	759	87.2	87.6	86.4	0.79	0.86	0.89	220	352	1470	198
			400	2910	113	797	86.5	87.5	86.9	0.74	0.82	0.86	220	395		
			415	2920	131	828	85.6	87.0	86.6	0.69	0.79	0.84	219	427		
100	75	4500	380	2900	154	1392	86.7	87.1	85.9	0.79	0.83	0.89	247	419	1560	215
			400	2910	148	942	86.2	117.3	86.7	0.74	0.83	0.87	246	472		
			415	2920	147	982	85.4	86.9	86.6	0.69	0.79	0.84	245	510		
110	83	4500	380	2910	166	1019	87.8	83.3	87.2	0.81	0.87	0.90	275	483	1740	247
			400	2920	160	1077	87.5	84.4	87.6	0.77	0.84	0.88	273	544		
			415	2925	156	1120	87.2	88.4	88.0	0.73	0.82	0.86	273	586		
125	93	4500	380	2910	188	1186	87.8	88.4	87.5	0.77	0.85	0.88	306	557	1740	247
			400	2920	183	1276	87.2	88.3	87.8	0.71	0.81	0.86	305	626		
			415	2930	184	1.308	86.1	87.8	87.7	0.65	0.76	0.83	305	676		

SUBMERSIBLE MOTORS

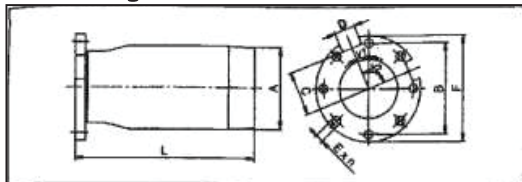
3 X 380, 3 X 400, 3 X 415, SUBMERSIBLE REWINDABLE MOTORS

SML 150 REWINDABLE MOTORS PERFORMANCE DATA																
PN [HP]	PN [KW]	THRUST F [N]	UN [V]	Nn [min-1]	IN [A]	IA [A]	n (Eff.) [%] at % load			COS ? (PF) at % load			TN [Nm]	TA [Nm]	DIMENSION	
							50	75	100	50	75	100			LENGTH	WEIGHT
5.5	4	15500	380	2860	11.7	49	0.62	0.69	0.71	0.53	0.63	0.72	13.3	22.0	552	37
			400	2880	12.2	52	0.59	0.66	0.70	0.48	0.58	0.67	13.2	24.4		
			415	2890	12	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	592	41
			400	2870	15.8	65	0.64	0.7	0.73	0.74	0.58	0.68	18.2	30.6		
			415	2890	16.5	67	0.63	0.7	0.73	0.42	0.62	0.72	18.2	33.0		
10	7.5	15500	380	2840	18.4	75	0.76	0.78	0.77	0.60	0.72	0.80	25	37.8	642	46
			400	2860	18.7	79	0.72	0.76	0.77	0.53	0.65	0.75	24.9	42.8		
			415	2870	19.4	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	59.0	682	50
			400	2870	23.7	118	0.74	0.79	0.80	0.50	0.60	0.70	30.9	66.4		
			415	2880	24.9	123	0.71	0.76	0.78	0.45	0.58	0.68	30.8	72.3		
15	11	15500	380	2860	27.5	120	0.76	0.79	0.79	0.55	0.67	0.76	36.7	60.6	702	52
			400	2870	28.9	127	0.71	0.76	0.78	0.49	0.60	0.69	36.5	68.2		
			415	2880	30.5	132	0.67	0.73	0.76	0.45	0.59	0.69	36.4	74.2		
17.5	13	15500	380	2840	30.8	136	0.79	0.81	0.81	0.62	0.75	0.79	43.7	67.8	746	56
			400	2860	30.7	144	0.77	0.80	0.81	0.53	0.68	0.75	43.4	75.9		
			415	2870	32	151	0.75	0.79	0.80	0.49	0.60	0.70	43.2	82.4		
20	15	15500	380	2850	33.9	168	0.81	0.83	0.82	0.64	0.75	0.81	50.1	88.0	817	63
			400	2870	34.2	178	0.79	0.81	0.81	0.57	0.70	0.78	49.8	99.0		
			415	2880	49	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	907	72
			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		

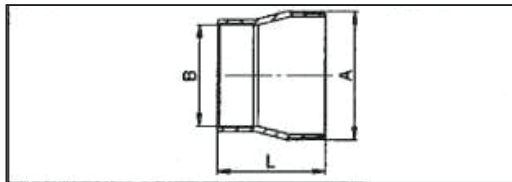
CONNECTING PIECES

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

Thread - Flange



Thread - Thread



SML 150 REWINDABLE MOTORS PERFORMANCE DATA														
TYPE	PUMP OUTLET	CONNECTING PIECE	THREAD - FLANGE										PRODUCT NUMBER	
			A	Dimensions [mm]						V ₁	V ₂	n	DIN W - Nr 1.4301	DIN W - Nr 1.4401
				B	C	D	E	F	L					
QF 30	Rp 2.5	R 2½ → DIN 50 PN 16	R2%	125	62.5	22	018	165	95	45	180	4	32420222	32420262
		R 2½ → DIN 50 PN 40	R2%	125	62.5	22	018	165	97	45	180	4	32420223	32420263
		R 2½ → DIN 65 PN 16	R2%	145	72.5	22	018	185	100	45	180	4	32420224	32420264
		R 2½ → DIN 65 PN 40	R2%	145	72.5	25	018	185	110	22.5	180	8	32420225	32420265
		R 2½ → DIN 80 PN 16	R2%	160	80	25	018	200	95	22.5	180	8	32420226	32420266
		R 2½ → DIN 80 PN 40	R2%	160	80	25	018	200	99	22.5	180	8	32420227	32420267
QF 50	Rp 3	R 3 → JIS 3	R3	136	66	35	015	165	200	22.5	90	8	32420228	32420268
		R 3 → DIN 65 PN 16	R3	145	72.5	22	018	185	105	45	180	4	32420229	32420269
		R 3 → DIN 65 PN 40	R3	145	72.5	25	018	185	109	22.5	180	8	32420230	32420270
		R 3 → DIN 80 PN 16	R3	160	80	25	018	200	110	22.5	180	8	32420231	32420271
		R 3 → DIN 80 PN 40	R3	160	80	25	018	200	120	22.5	180	8	32420232	32420272
		R 3 → DIN 100 PN 16	R3	180	90	25	018	220	107	22.5	180	8	32420233	32420273
QF 75 QF 100	Rp3 Rp4	R 3 → DIN 100 PN 40	R3	190	95	25	022	220	109	22.5	180	8	32420234	32420274
		R 4 → JIS 4	R4	155	72	35	015	180	200	22.5	90	8	32420235	32420275
		R 3 → DIN 65 PN 16	R3	145	72.5	22	018	185	105	45	180	4	32420236	32420276
		R 3 → DIN 65 PN 40	R3	145	72.5	25	018	185	109	22.5	180	4	32420237	32420277
		R 3 → DIN 80 PN 16	R3	160	80	25	018	200	110	22.5	180	8	32420238	32420278
		R 3 → DIN 80 PN 40	R3	160	80	25	018	200	120	22.5	180	8	32420239	32420279
		R 3 → DIN 100 PN 16	R3	180	90	25	018	220	107	22.5	180	8	32420240	32420280
		R 3 → DIN 100 PN 40	R3	190	95	25	022	220	109	22.5	180	8	32420241	32420281
QF 125 QF 160	Rp 5	R 4 → DIN 100 PN 40	R4	180	90	25	018	220	120	22.5	180	8	32420242	32420282
		R 4 → DIN 100 PN 40	R4	190	95	25	022	235	130	22.5	180	8	32420243	32420283
		R 5 → JIS 4	R5	155	75	35	015	180	313	22.5	90	8	32420244	32420284
		R 5 → JIS 5	R5	190	97	45	019	225	315	22.5	90	8	32420245	32420285
		R 5 → DIN 100 PN 16	R5	180	95	45	018	225	315	22.5	90	8	32420246	32420286
		R 5 → DIN 100 PN 40	R5	190	102.5	45	022	240	314	22.5	90	8	32420247	32420287
		R 5 → DIN 125 PN 16	R5	210	110	45	018	250	317	22.5	90	8	32420248	32420288
		R 5 → DIN 125 PN 40	R5	220	120	45	026	270	317	22.5	90	8	32420249	32420289
F210 QF 270 QF 360	Rp 6	R 5 → DIN 150 PN 16	R5	240	127.5	45	022	285	317	22.5	90	8	32420250	32420290
		R 5 → DIN 150 PN 40	R5	250	135	45	026	300	323	22.5	90	8	32420251	32420291
		R 6 → JIS 5	R6	190	97	45	019	225	316	22.5	90	8	32420252	32420292
		R 6 → JIS 6	R6	224	111	45	019	252	317	22.5	90	8	32420253	32420293
		R 6 → DIN 125 PN 16	R6	210	110	45	018	250	317	22.5	90	8	32420254	32420294
		R 6 → DIN 125 PN 40	R6	220	120	45	026	270	321	22.5	90	8	32420255	32420295
		R 6 → DIN 150 PN 16	R6	240	127.5	45	022	285	317	22.5	90	8	32420256	32420296
		R 6 → DIN 150 PN 40	R6	250	138.5	45	026	300	323	22.5	90	8	32420257	32420297
QF 125 QF 160	Rp 5	R 6 → DIN 200 PN 16	R6	295	155	45	022	340	317	15	90	12	32420258	32420298
		R 6 → DIN 200 PN 40	R6	320	172.5	45	030	375	327	15	90	12	32420259	32420299

SML 150 REWINDABLE MOTORS PERFORMANCE DATA							
TYPE	PUMP OUTLET	CONNECTING PIECE	THREAD - FLANGE			PRODUCT NUMBER	
			A	Dimensions [mm]		DIN W - Nr 1.4301	DIN W - Nr 1.4401
				L			
QF 125 QF 160	Rp 5	R5 → Rp 5	R5	121		32420301	32420307
		R5 → Rp 6	R5	150		32420302	32420308
	NPT 5	NPT5 → NPT4	NPT 5	121		32420303	32420309
		NPT5 → NPT6	NPT 5	150		32420304	32420310
QF 210 QF 270 QF 360	Rp 6	R6 → Rp 5	R6	150		32420305	32420311
	NPT 6	NPT6 → NPT5	NPT 6	150		32420306	32420312

TABLE OF HEAD LOSSES

MISCELLANEOUS

UPPER FIGURES INDICATE THE VELOCITY OF WATER IN M/SEC. LOWER FIGURES INDICATE HEAD IN METERS PER 100 METERS STRAIGHT PIPES															
QUANTITY OF WATER			HEAD LOSSES IN ORDINARY WATER PIPES												
m ³ /h	Litres/min.	Litres/sec.	NOMINAL PIPE DIAMETER IN INCHES AND INTERNAL DIAMETER IN (MM)												
			½"	¾"	1	1 1/4"	1 1/2	2"	2 1/2"	3"	3 ½"	4"	5"	6"	
			15.75	21.25	27.00	35.75	41.25	52.50	68.00	80.25	92.50	105.0	130.0	155.5	
0.6	10	0.16	0.855 9.910	0.470 2.470	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 0.834	0.415 1.004	0.312 0.510								
1.8	30	0.50	2.565 69.34	1.491 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	0.380 0.368							
3	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 1.551	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	0.770 1.875	0.413 0.449	0.269 0.203						
6	100	1.67		2.919 46.49	1.660 11.90	1.247 5.972	0.962 2.802	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 8.967	1.154 3.903	0.574 0.809	0.412 0.365	0.310 1.185	0.241 0.101				
9	150	2.50			2.490 25.11	1.870 12.53	1.347 5.179	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	1.539 6.624	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 21.36	1.924 10.03	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	2.309 14.04	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 15.52	3.078 24.04	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	3.848 36.71	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					46.18 51.84	2.753 14.62	1.976 6.505	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						3.671 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 3.458	1.316 1.444		
105	1750	29.2								4.340 24.76	3.368 13.30	1.883 3.468	1.535 1.934		
120	2000	33.3								4.960 31.94	3.850 17.16	2.197 4.665	1.754 2.496		
150	2500	41.7									4.812 26.26	2.511 5.995	2.193 3.807		
180	3000	50.5										3.139 9.216	2.632 5.417		
240	4000	66.7											3.767 13.05	3.509 8.926	
300	5000	83.3												5.523 22.72	4.386 14.42
900C BENDS SLIDE VALVES			½"	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.6	1.6	1.7	2.5	
T-PIECES, NON -RETURN VALVES			15.75	4.0	4.0	5.0	5.0	5.0	6.0	6.0	6.0	6.0	7.0	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-Pieces and non-return is equivalent to the meters of straight 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.

SUBMERSIBLE PUMPS SP A, SP

Cable dimensions at 3 X 400 V, 50 Hz

Voltage drop: 3%

VOLTAGE DROP : 3%																			
MOTOR	KW	In [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	576	955														
4"	0.55	2.2	0.64	366	608	966													
4"	0.75	2.3	0.72	312	518	824													
4"	1.1	3.4	0.72	211	350	558	830												
4"	1.5	4.2	0.75	164	273	434	646												
4"	2.2	5.5	0.82	115	191	304	453	748											
4"	3	7.85	0.77	86	142	226	337	555	872										
4"	4	9.6	0.8	67	112	178	266	438	689										
4"	5.5	13	0.81	49	82	130	194	320	504	768									
4"	7.5	18.8	0.78	49	59	93	139	229	360	548	745								
6"	5.5	13.6	0.77	37	82	131	195	320	503	765									
6"	7.5	17.6	0.8		61	97	145	239	376	573	781								
6"	9.2	21.8	0.81		49	78	116	191	300	458	625	860							
6"	11	24.8	0.83		42	67	99	164	258	395	540	744	995						
6"	13	30	0.81			56	84	139	218	333	454	625	833						
6"	15	34	0.82				73	121	191	291	397	547	731	938					
6"	18.5	42	0.81				60	99	156	238	324	446	595	763	913				
6"	22	48	0.84					84	132	202	276	382	511	659	792	935			
6"	26	57	0.84					71	111	170	233	321	431	555	667	788	913		
6"	30	66.5	0.83						96	147	201	277	371	477	573	676	782	925	
6"	37	85.5	0.79							119	162	223	296	378	451	529	608	713	806
8"	22	48	0.84					84	132	202	276	382	511	659	792	935			
8"	26	56.5	0.85					70	111	170	233	322	432	557	671	794	922		
8"	30	64	0.85						98	150	205	284	381	492	592	701	814	967	
8"	37	78.5	0.85						80	122	168	232	311	401	483	572	664	789	903
8"	45	96.5	0.82							10	140	193	257	330	396	466	539	635	723
8"	55	114	0.85								115	159	214	276	333	394	457	543	622
8"	63	132	0.83									140	187	240	289	340	394	466	531
8"	75	152	0.86									119	160	206	249	295	343	409	469
8"	92	186	0.86										130	169	203	241	281	334	383
8"	110	224	0.87											140	169	200	233	279	321
10"	75	156	0.84										157	203	244	288	334	395	452
10"	92	194	0.82										128	164	197	232	268	316	360
10"	110	228	0.84											139	167	197	228	271	309
10"	132	270	0.84												141	166	193	228	261
10"	147	315	0.81													143	165	194	221
10"	170	365	0.81															168	190
10"	190	425	0.79															143	162
12"	147	305	0.83													147	170	202	230
12"	170	345	0.85														151	179	205
12"	190	390	0.84															158	181
12"	220	445	0.85																159
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.

CABLE SIZING

SUBMERSIBLE PUMPS SP A, SP

Cable dimensions at 3 X 400 V, 50 Hz

Voltage drop: 1%

CABLE DIMENSIONS AT 3 X 400 V, 50 Hz VOLTAGE DROP : 3%																				
MOTOR	KW	I _n [A]	Cos φ 100%	DIMENSIONS [mm ³]																
				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"	9.2	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"	92	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.

TABLE OF HEAD LOSSES



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MISCELLANEOUS

QUANTITY OF WATER			HEAD LOSSES IN PLASTIC PIPES														
			PELM						PEH								
m ³ /h	Litres/min.	Litres/sec.	NOMINAL PIPE SIZE IN MM														
			25	32	40	50	63	75	90	110	125	140	160	180			
			20.4	26.2	32.6	40.8	51.4	61.4	73.6	90.0	102.2	114.6	130.8	147.2			
0.6	10	0.16	1.80	0.66	0.27	0.09											
0.9	15	0.25	4.00	1.14	0.60	0.18	0.63										
1.2	20	0.33	6.40	2.20	0.90	0.28	0.11										
1.5	25	0.42	10.00	3.50	1.40	0.43	0.17	0.07									
1.8	30	0.50	13.00	4.60	1.90	0.57	0.22	0.09									
2.1	35	0.58	16.00	6.00	2.00	0.7	0.27	0.12									
2.4	40	0.67	22.00	7.50	3.30	0.93	0.35	0.16	0.06								
3	50	0.83	37.00	11.00	4.80	1.4	0.5	0.22	0.09								
3.6	60	1.00	43.00	15.00	6.50	1.9	0.7	0.32	0.13	0.05							
4.2	70	1.12	50.00	18.00	8.00	2.5	0.83	0.38	0.17	0.07							
4.8	80	1.33		25.00	10.50	3	1.2	0.5	0.22	0.08							
5.4	90	1.50		30.00	12.00	3.5	1.3	0.57	0.26	0.09	0.05						
6	100	1.67		39.00	16.00	4.6	1.8	0.73	0.3	0.12	0.07						
7.5	125	2.08		50.00	24.00	6.6	2.5	1.1	0.5	0.18	0.1	0.06					
9	150	2.50			33.00	8.6	3.5	1.4	0.63	0.24	0.13	0.08					
10.5	175	2.92			38.00	11	4.3	1.8	0.78	0.3	0.18	0.09					
12	200	3.33			50.00	14	5.5	2.4	1	0.4	0.22	0.12	0.07				
15	250	4.17				21	8	3.7	1.5	0.57	0.34	0.18	0.11	0.06			
18	300	5.00				28	10.5	4.6	1.95	0.77	0.45	0.25	0.13	0.09			
24	400	6.67					19	8	3.6	1.4	0.78	0.44	0.23	0.15			
30	500	8.33					28	11.5	5	2	1.2	0.63	0.33	0.21			
36	600	10.00					37	15	6.6	2.6	1.5	0.82	0.45	0.28			
42	700	11.70					47	24	8	3.5	1.9	1.1	0.6	0.4			
48	800	13.30						26	11	4.5	2.6	1.4	0.81	0.48			
54	900	15.00						33	13.5	5.5	3.2	1.7	0.95	0.58			
60	1000	16.70						40	16	6.7	3.9	2.2	1.2	0.75			
75	1250	20.80							25	9	5	3	1.6	0.95			
90	1500	25.00							33	13	8	4.1	2.3	1.4			
105	1750	29.20							44	17.5	9.7	5.7	3.2	1.9			
120	2000	33.30								23	13	7	4	2.4			
150	2500	41.70								34	18	10.5	6	3.5			
180	3000	50.00								45	27	14	7.6	4.4			
240	4000	66.70									43	24	13	7.5			
300	5000	83.30										33	18	11			

The table is based on a nomogram.

Roughness: K = 0.01 mm.

Water temperature: t = 10 °C.

SAP NO. 2900000115



Certificate Holder



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