

QF, QF A
Stainless Steel
Submersible Pumps, 50Hz

Approvals



General Data

Submersible Pumps - ARS Series	page	4
Performance Range		5
Pump Range		5
Applications		6
Type Key		6
Pumped Liquids		6
Operating Conditions		6
Curve Conditions		6
Table of Head Losses		6
Features and Benefits		7
Material Specification		8
Parts		11
Installation Drawing		12
Pump Design Sheet		13

Technical Data

ARS1A	page	14
ARS2A		16
ARS3A		18
ARS5A		20
ARS8A		22
ARS14A		24
ARS17		26
ARS30		31
ARS46		36
ARS60		41
ARS77		46
ARS95		51
ARS125		56
ARS160		61
ARS215		66
Friction Loss in Straight Pipework		71
Head Losses in Ordinary Water Pipes		72
Cable Selection Chart		74
Cable Size		75

Submersible Pumps - ARS

English - SWP submersible pumps ARS and ARS A for deep wells starting from 4" (DN 100) and with flow up to 280 m3/h. All essential parts, such as shaft, impellers and intermediate chambers are made of fully stainless steel AISI 304. The sealings are made of corrosion- and chemical resistant materials and the bearings consist of hard metal / ceramic combination. The light stainless steel construction allows high efficiency through which the energy consumption is drastically reduced. The cost and time for installation is lower due to the light weight of the stainless steel sheet metal pump construction.

Deutsch - SWP Unterwasserpumpen der Baureihe ARS und ARS A für Brunnen ab 4" (DN 100) und mit Förderströmen bis zu 280 m3/h. Alle wesentlichen Teile, wie zum Beispiel Welle, Laufräder und Zwischenkammern sind aus komplett nicht rostenden Stahl AISI 304 (W-Nr. 1.4301) gefertigt. Die Dichtungen sind aus besonders korrosions- und chemikalienbeständigen Werkstoffen und die Lager aus einer Hartmetall / Keramik – Kombination hergestellt.

Die Konstruktion der Pumpen in Chrom-Nickel Stahl ergibt eine leichte Bauweise mit guten Wirkungsgraden. Dadurch können der Stromverbrauch und die Installationskosten auf ein Minimum reduziert werden.

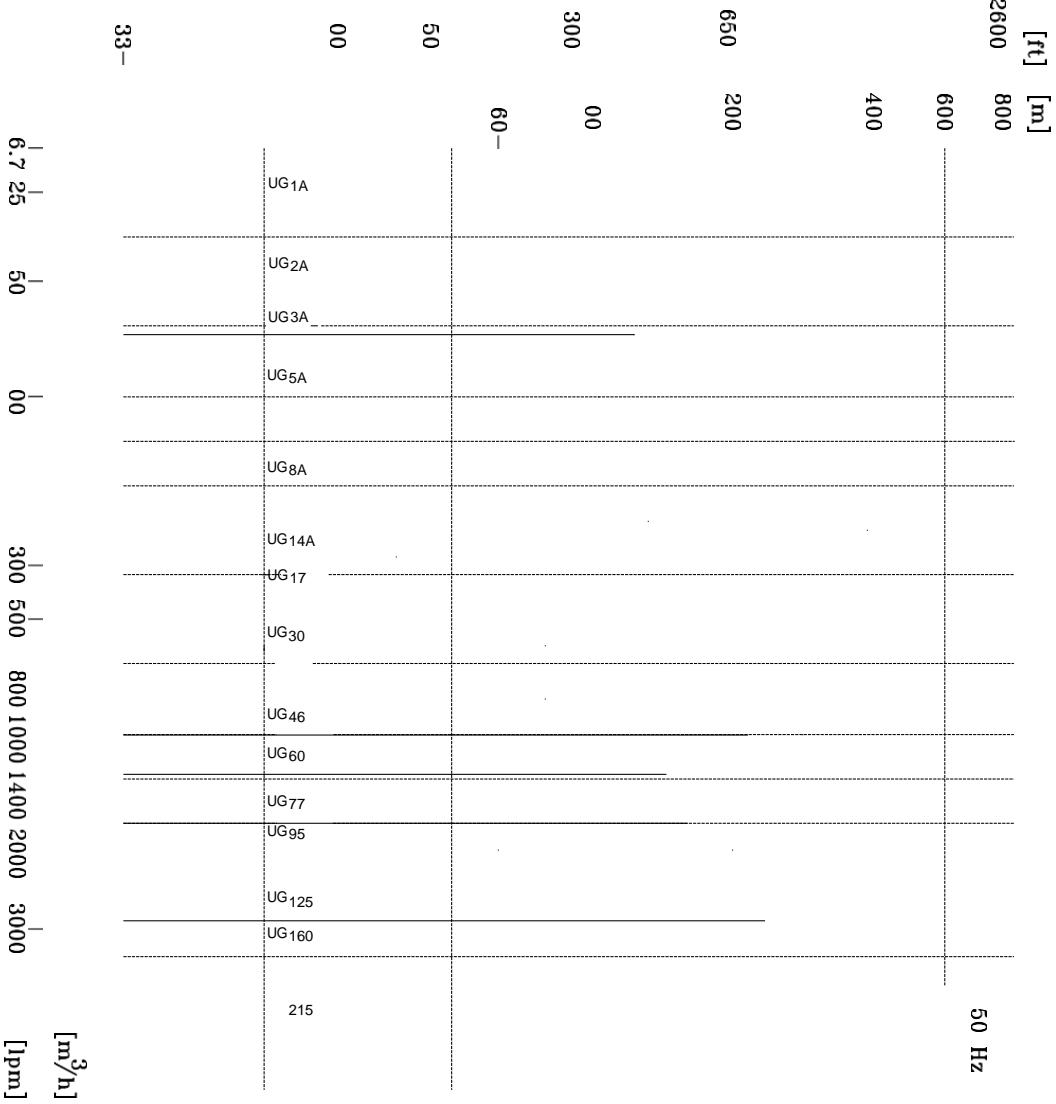
Français - Les pompes immergées de l'assortiment UARS et ARS A pour puits dès 4" (DN100) et avec des courants propulsés jusqu'à 280 m3/h. Toutes les pièces principales, comme par exemple axes, roués libres et espaces intermédiaires sont fabriqués spéciaux matériaux anticorrosifs et les produits chimiques et roulements de métaux dur / combinaison céramique. La méthode de construction des pompes en acier chrome – nickel donne une méthode de construction légère de bons degrés de fonctionnement. Par cela la consommation d'électricité et les frais d'installation peuvent être réduits au minimum.

Italiano - SWP – Pompe sommergibili “ARS” e “ARS A” per pozzi profondi da 4” (DN 100) fino a 12” (DN 250) con portata fino 280mc/h e prevalenza fino a mt 600.

Costruite con le parti essenziali – alberi, giranti, diffusori, camere intermedie – realizzate da lastra lucida di acciaio Inox 304. Anelli di usura sono di materiale resistente alla corrosione ed all'azione di aggressivi chimici. Supporti sono realizzati dalla combinazione di ceramica e metallo duro (carburo di tungsteno).

La costruzione così realizzata con Acciaio Inox leggero risulta più efficiente e consente quindi importanti risparmi di energia e costi di installazione notevolmente ridotti.

Performance Range



Pump Range

Model	ARS1A	ARS2A	ARS3A	ARS5A	ARS8A	ARS14A	ARS17	ARS30	ARS46	ARS60	ARS77	ARS95	ARS125	ARS160
Steel: AISI 304	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Connection: Rp (Inches) Bsp Thread	1 1/4	1 1/4	1 1/4	1 1/2	2	2	2 1/2	3	3	3	4	4	5	6
NPT Thread	1 1/4	1 1/4	1 1/2	2	2	3	3	3	3	3	4	4	5	6
Flange Connection													5	6

Applications

The pumps are suitable for the following applications:

- raw water supply
- irrigation systems
- groundwater lowering
- pressure boosting
- industrial applications

Type Key

ARS 215 - 5 - A

B

Type range _____

Nominal flow rate $\times 10 \text{ lpm}$ _____

Number of impellers

First impeller with reduced diameter (A,B or C)

Second impeller with reduced diameter (A,B or C)

Curve Conditions

- Curve tolerance according to ISO 9906, Annex A
- The performance curves show pump performance at actual speed cf. standard motor range.
- The speed of the motors is approximately :
 - 4" and 6" motors : $n=2870 \text{ min}^{-1}$
 - 8" to 12" motors : $n=2900 \text{ min}^{-1}$
- 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 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.

Pumped Liquids

Clean, thin, non-aggressive liquids without solid particles or fibres. The max. sand content is 50 mg/lit.

Operating Conditions

Flow rate Q: 0.1 - 280 m³/h

Head H: max. 670m

Max. installation pressure: 20 bar max (290 PSI)

Maximum Liquid Temp.:

Motor	Installation		
	Flow velocity past motor	Vertical	Horizontal
4", 6" & 8"	0.15 m/s	50 °C	50 °C

Operating pressure: Maximum 670m (67 bar)

Table of Head Losses

[ARS1A, ARS2A, ARS3A, ARS5A, ARS8A, ARS14A Curves](#)

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

[ARS17, ARS30, ARS46, ARS60, ARS77, ARS95, ARS125, ARS160, ARS215 Curves](#)

- Q/H : The curves are inclusive of valve and inlet losses at the actual speed.
- Operation without non-return valve (NRV) will increase the actual head at nominal performance by 0.5 - 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.

Features and Benefits

A wide Pump Range

We offers submersible pumps with energy- efficient duty points ranging from 0.1 to 280 m³/h. The pump range consists of many pump sizes - and each pump size is available with an optional number of stages to match any duty point.

High Pumps Efficiency

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

Example:

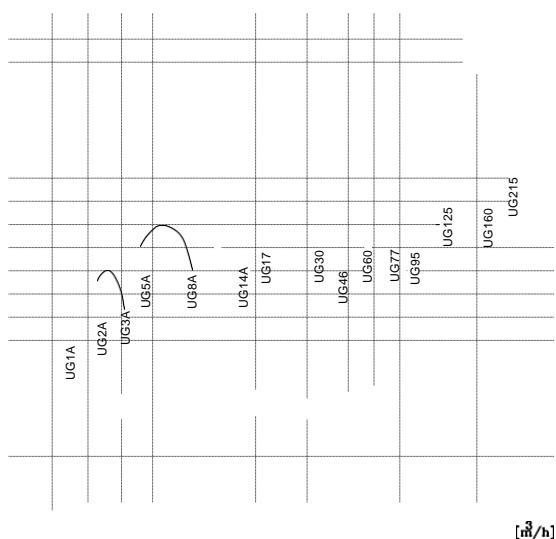
When pumping 125 m³/h with a head of 200m for a period of 10 years \$ 60,000 will be saved if a pumps and motors having a 10% higher efficiency is chosen and the price is \$ 0.10 per kWh.

Applications

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

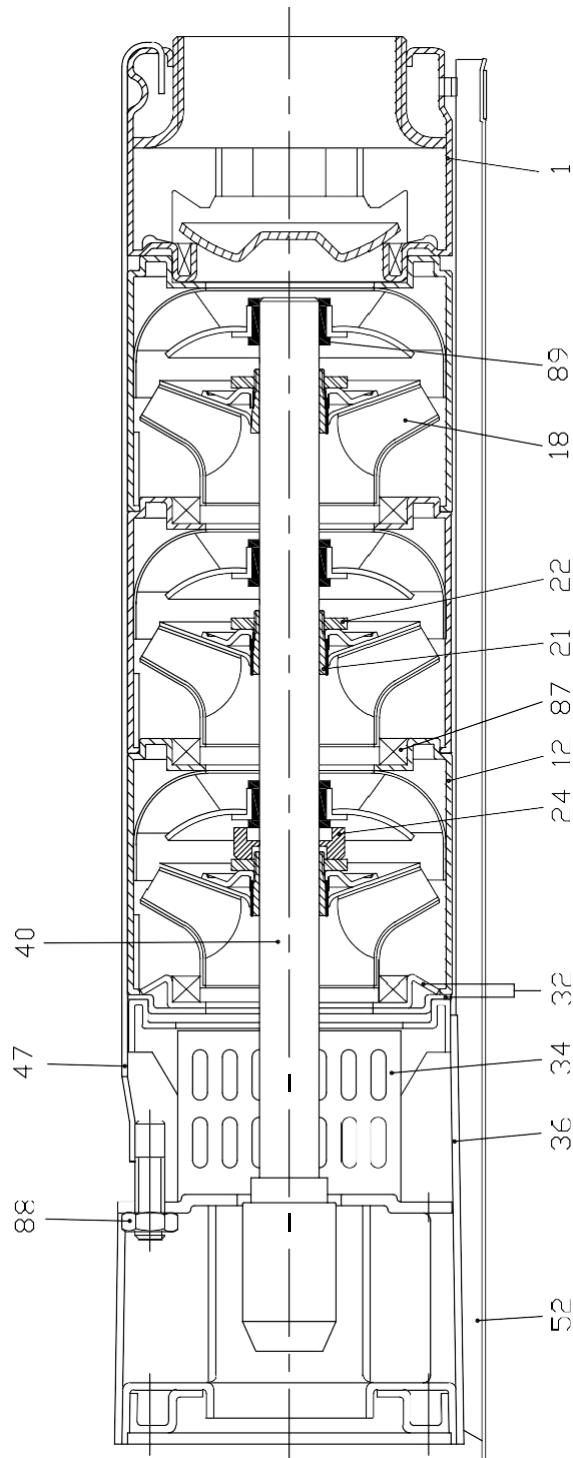
Low Installation Costs

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



Pump efficiency overview

Material Specification 4"



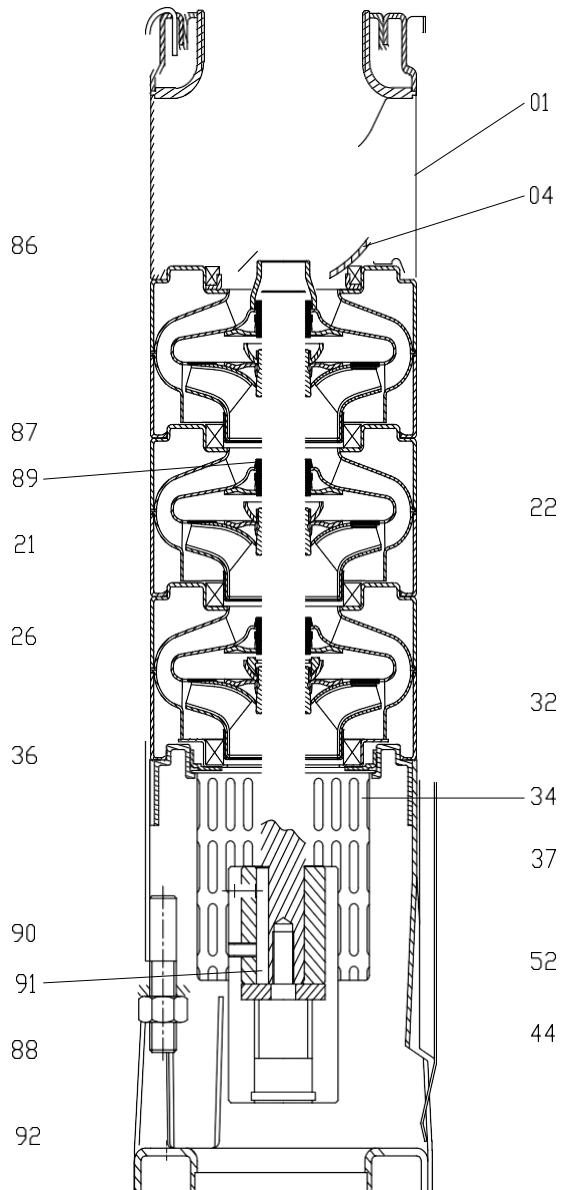
Submersible Pump ARS-14

Pos.	Components	Material	Standard
01	Discharge	Stainless Steel	304
12	Diffuser	Stainless Steel	304
18	Impeller	Stainless Steel	304
21	Split Cone	Stainless Steel	304
22	Split Cone Nut	Stainless Steel	304
24	Stop Ring	Carbon/Graphite/ PTFE	
32	Neck Ring Retainer	Stainless Steel	304
34	Strainer	Stainless Steel	304
36	Suction Interconnector	Stainless Steel	304
40	Pump Shaft	Stainless Steel	431
37	Coupling	Stainless Steel	304
47	Strap	Stainless Steel	304
52	Cable Guard	Stainless Steel	304
87	Neck Ring	SS304+NBR	
88	Nut	Stainless Steel	304
89	Bearing	NBR	

- AISI 316 stainless steel pumps are available on request.

Material Specification 6"

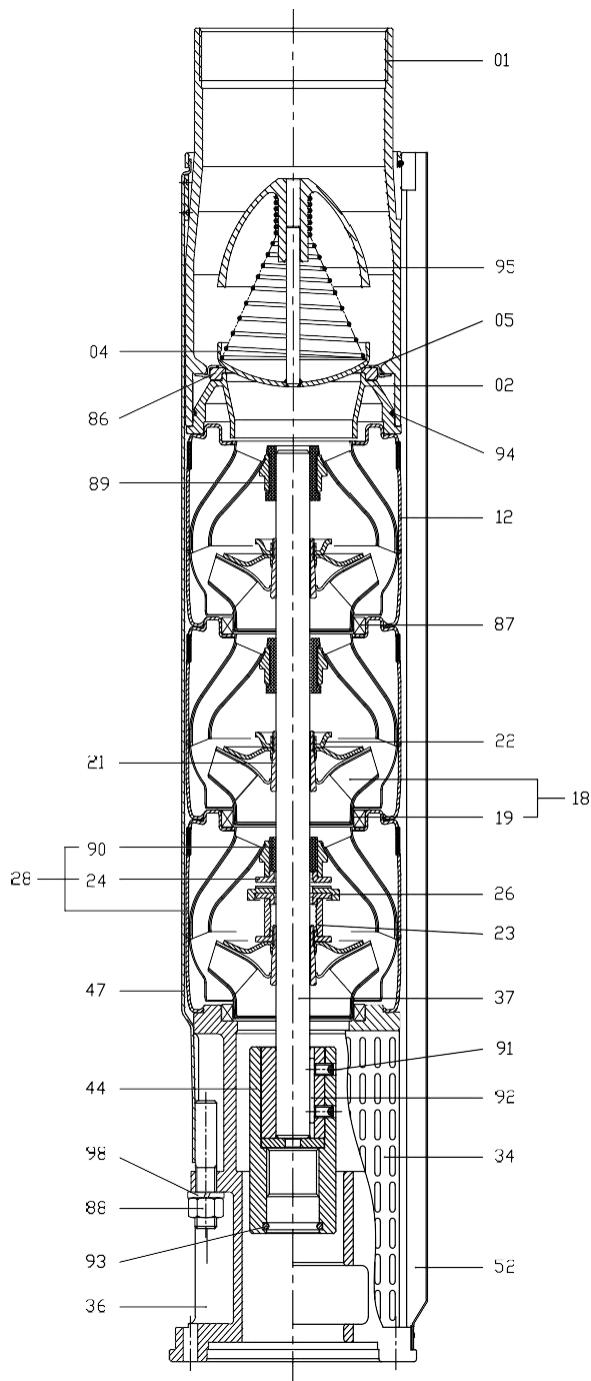
Supmersible Pump ARS-17



Pos.	Components	Material	Standard
01	Discharge	Stainless Steel	304
04	Valve Cone	Stainless Steel	304
11	Top Diffuser	Stainless Steel	304
12	Diffuser	Stainless Steel	304
18	Impeller	Stainless Steel	304
19	Ring of Impeller	Stainless Steel	304
21	Split Cone	Stainless Steel	304
22	Split Cone Nut	Stainless Steel	304
26	Spacing Washer for Stop Ring	Carbon/Graphite/ PTFE	
32	Neck Ring Retainer	Stainless Steel	304
34	Strainer	Stainless Steel	304
36	Suction Interconnector	Stainless Steel	304
37	Pump Shaft	Stainless Steel	431
44	Coupling	Stainless Steel	304
47	Strap	Stainless Steel	304
52	Cable Guard	Stainless Steel	304
86	Valve Seat	SS304+NBR	
87	Neck Ring	SS304+NBR	
88	Nut	Stainless Steel	304
89	Bearing	NBR	
90	Screw	Stainless Steel	304
91	Key	Stainless Steel	304
92	O-ring	NBR	

- AISI 316 stainless steel pumps are available on request.

Material Specification 8"



Submersible Pump ARS-95

Pos.	Components	Material	Standard
01	Discharge	Stainless Steel	304
02	Lower Valve Seat Retainer	Stainless Steel	304
04	Valve Cone	Stainless Steel	304
05	Upper Valve Seat Retainer	Stainless Steel	304
12	Diffuser	Stainless Steel	304
18	Impeller	Stainless Steel	304
19	Ring of Impeller	Stainless Steel	304
21	Split Cone	Stainless Steel	304
22	Split Cone Nut	Stainless Steel	304
23	Nut for Stop Ring	Stainless Steel	304
24	Stop Ring	Stainless Steel	304
26	Spacing Washer for Stop Ring	Carbon/ Graphite/ PTFE	
28	Bottom Diffuser	Stainless Steel	304
34	Strainer	Stainless Steel	304
36	Suction Interconnector	Stainless Steel	304
37	Pump Shaft	Stainless Steel	431
44	Coupling	Stainless Steel	304
47	Strap	Stainless Steel	304
52	Cable Guard	Stainless Steel	304
86	Valve Seat	NBR	
87	Neck Ring	SS304+NBR	
88	Nut	Stainless Steel	304
89	Bearing	NBR	
90	Bearing	NBR+SS304	
91	Screw	Stainless Steel	304
92	Key	Stainless Steel	304
93	O-ring	NBR	
94	O-ring	NBR	
95	Spring	Stainless Steel	304
98	Spring Washer	Stainless Steel	304

- AISI 316 stainless steel pumps are available on request.

Parts

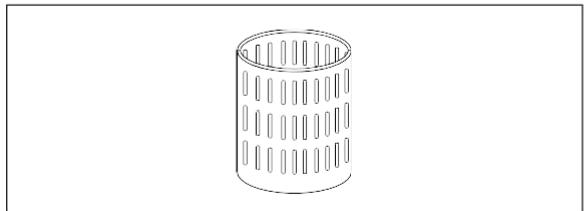
Bearings with Sand Channels

All bearings are water-Lubricated and have a squared 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.

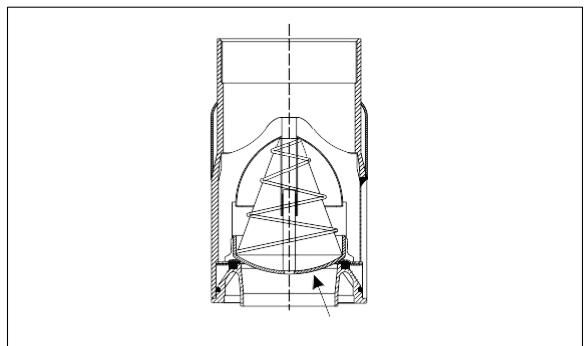


Non-Return Valve (NRV)

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



Stop Ring

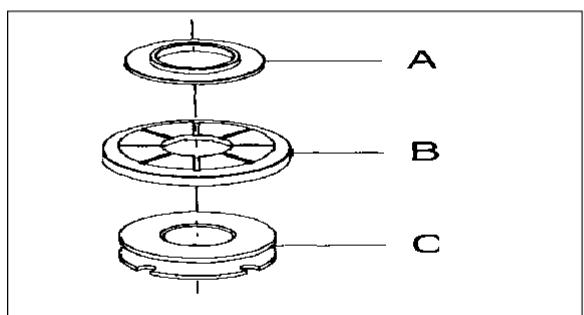
The stop ring prevents damage to the pump during transport and in case of up-thrust in connection with start-up.

The stop ring, which is designed as a thrust bearing limits axial movements of the pump shaft.

Example: ARS 125

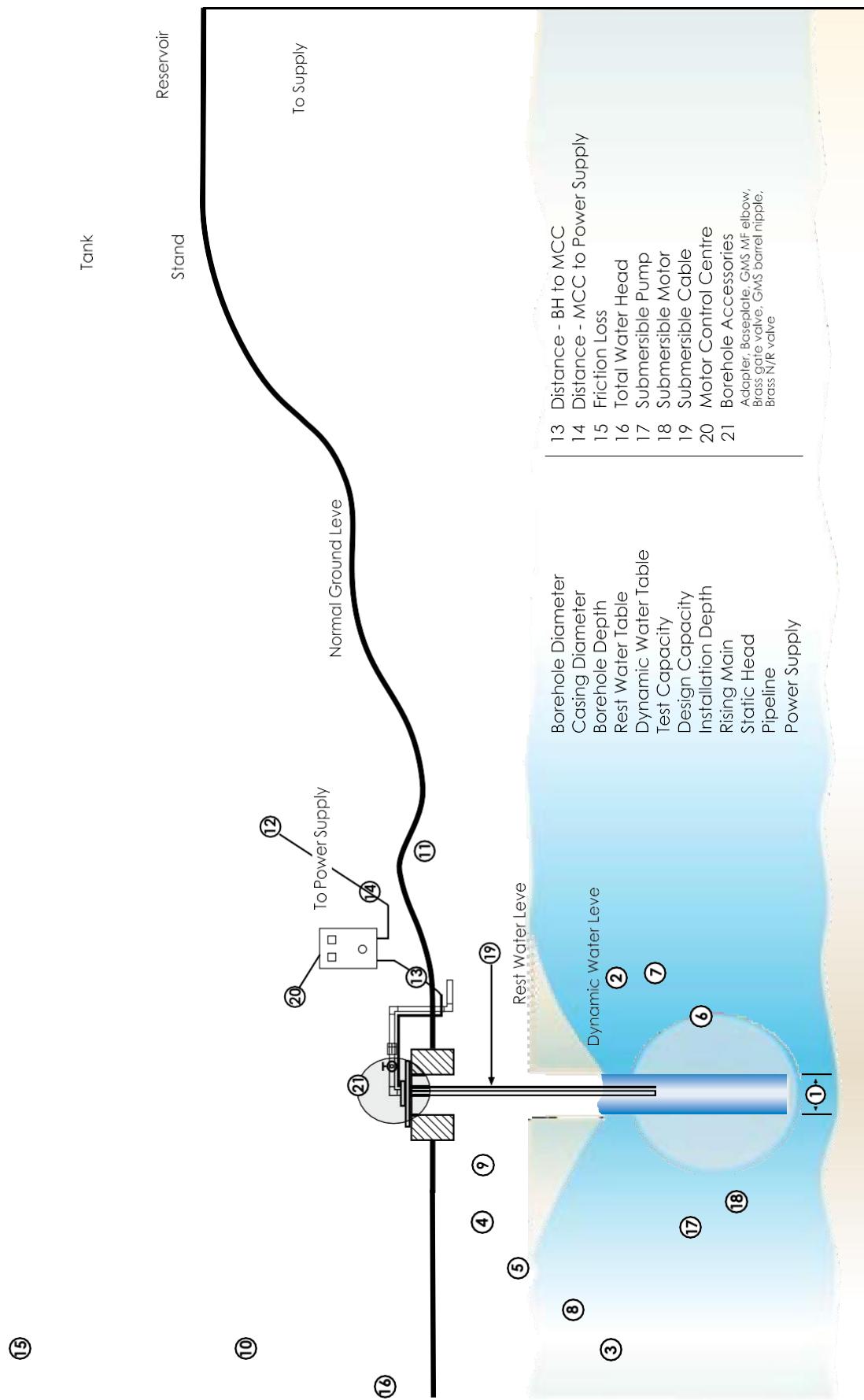
The stationary part of the stop ring (A) is secured in the top bowl (Upper intermediate chamber).

The rotating part (B) is fitted above the cullet split cone (C).



General Data

Installation Drawing



Pump Design Sheet

Project 1:

Item	Description	Material		Item	Description		
1	Borehole Diameter		mm	15	Friction Loss		m
2	Casing Diameter		mm	16	Total Water Head		mWh
3	Borehole Depth		m	17	Submersible Pump		
4	Rest Eater Table		m	18	Submersible Motor		kw
5	Dynamic Water Table		m	19	Submersible Cable		mm ²
6	Test Capacity		m ³ /h	20	Motor Control Centre		kw
7	Design Capacity		m ³ /h		Set of Glands		
8	Installation Depth		m	21	Borehole accessories		
9	Resing Main		mm		Adapter		mm
10	Static Head		m		Baseplate		mm
11	Pipeline Type		mm		GMS MF elbow		mm
	Pipeline Length		m		Brass Gate Valve		mm
12	Power Supply		Volt		GMS barrel Nipple		mm
13	Distance - BH To MCC		m		Brass N/R Valve		mm
14	Distance - MCC To Power Supply		m				

Project 2:

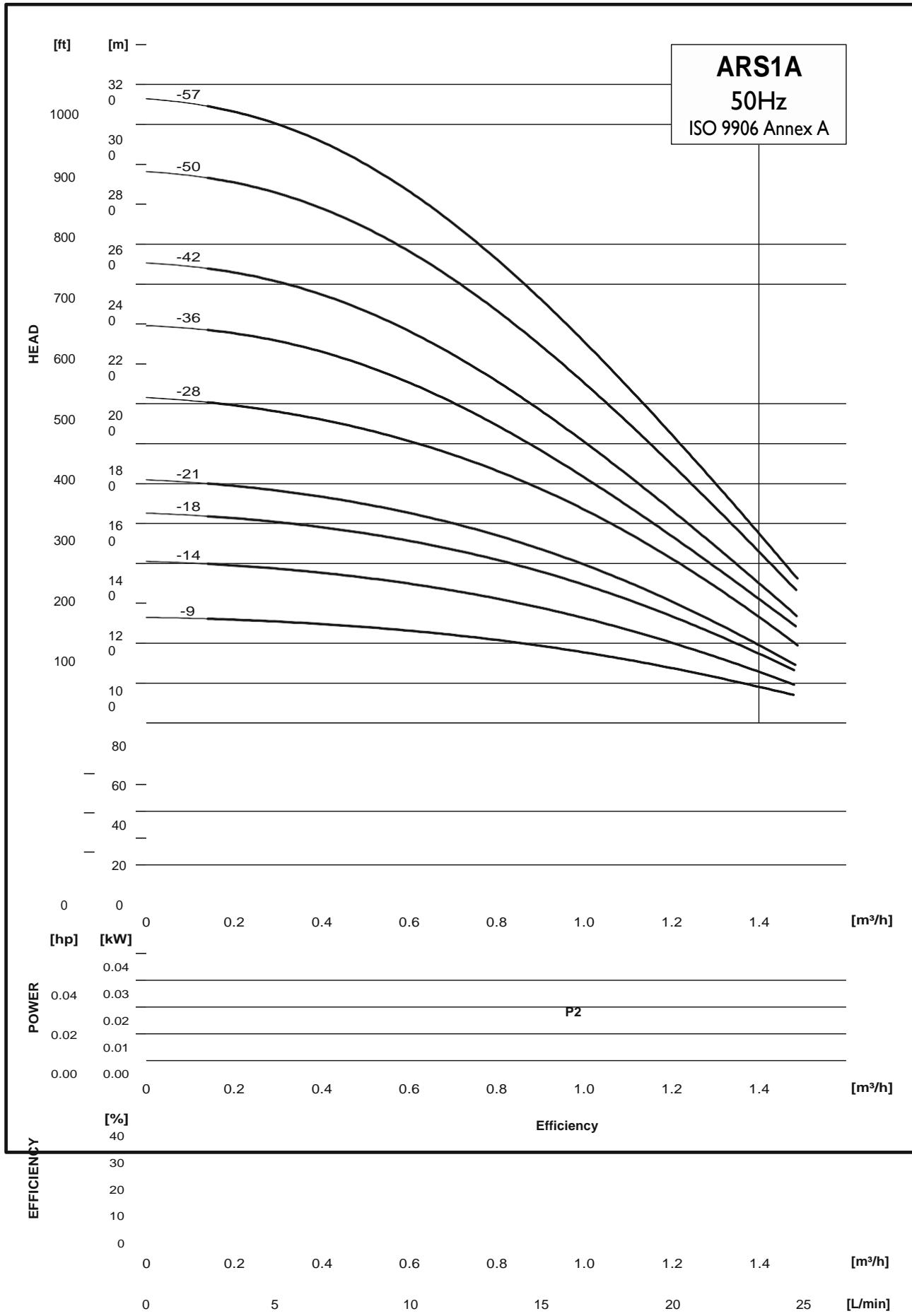
Item	Description	Material		Item	Description		
1	Borehole Diameter		mm	15	Friction Loss		m
2	Casing Diameter		mm	16	Total Water Head		mWh
3	Borehole Depth		m	17	Submersible Pump		
4	Rest Eater Table		m	18	Submersible Motor		kw
5	Dynamic Water Table		m	19	Submersible Cable		mm ²
6	Test Capacity		m ³ /h	20	Motor Control Centre		kw
7	Design Capacity		m ³ /h		Set of Glands		
8	Installation Depth		m	21	Borehole accessories		
9	Resing Main		mm		Adapter		mm
10	Static Head		m		Baseplate		mm
11	Pipeline Type		mm		GMS MF elbow		mm
	Pipeline Length		m		Brass Gate Valve		mm
12	Power Supply		Volt		GMS barrel Nipple		mm
13	Distance - BH To MCC		m		Brass N/R Valve		mm
14	Distance - MCC To Power Supply		m				

Project 3:

Item	Description	Material		Item	Description		
1	Borehole Diameter		mm	15	Friction Loss		m
2	Casing Diameter		mm	16	Total Water Head		mWh
3	Borehole Depth		m	17	Submersible Pump		
4	Rest Eater Table		m	18	Submersible Motor		kw
5	Dynamic Water Table		m	19	Submersible Cable		mm ²
6	Test Capacity		m ³ /h	20	Motor Control Centre		kw
7	Design Capacity		m ³ /h		Set of Glands		
8	Installation Depth		m	21	Borehole accessories		
9	Resing Main		mm		Adapter		mm
10	Static Head		m		Baseplate		mm
11	Pipeline Type		mm		GMS MF elbow		mm
	Pipeline Length		m		Brass Gate Valve		mm
12	Power Supply		Volt		GMS barrel Nipple		mm
13	Distance - BH To MCC		m		Brass N/R Valve		mm
14	Distance - MCC To Power Supply		m				

Technical Data

ARS1A - Performance

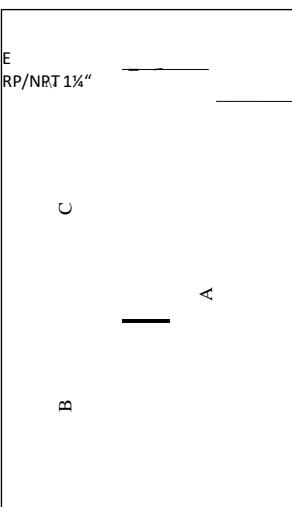


ARS1A - Performance

14

ARS1A - Technical Data

Dimensions and Weight

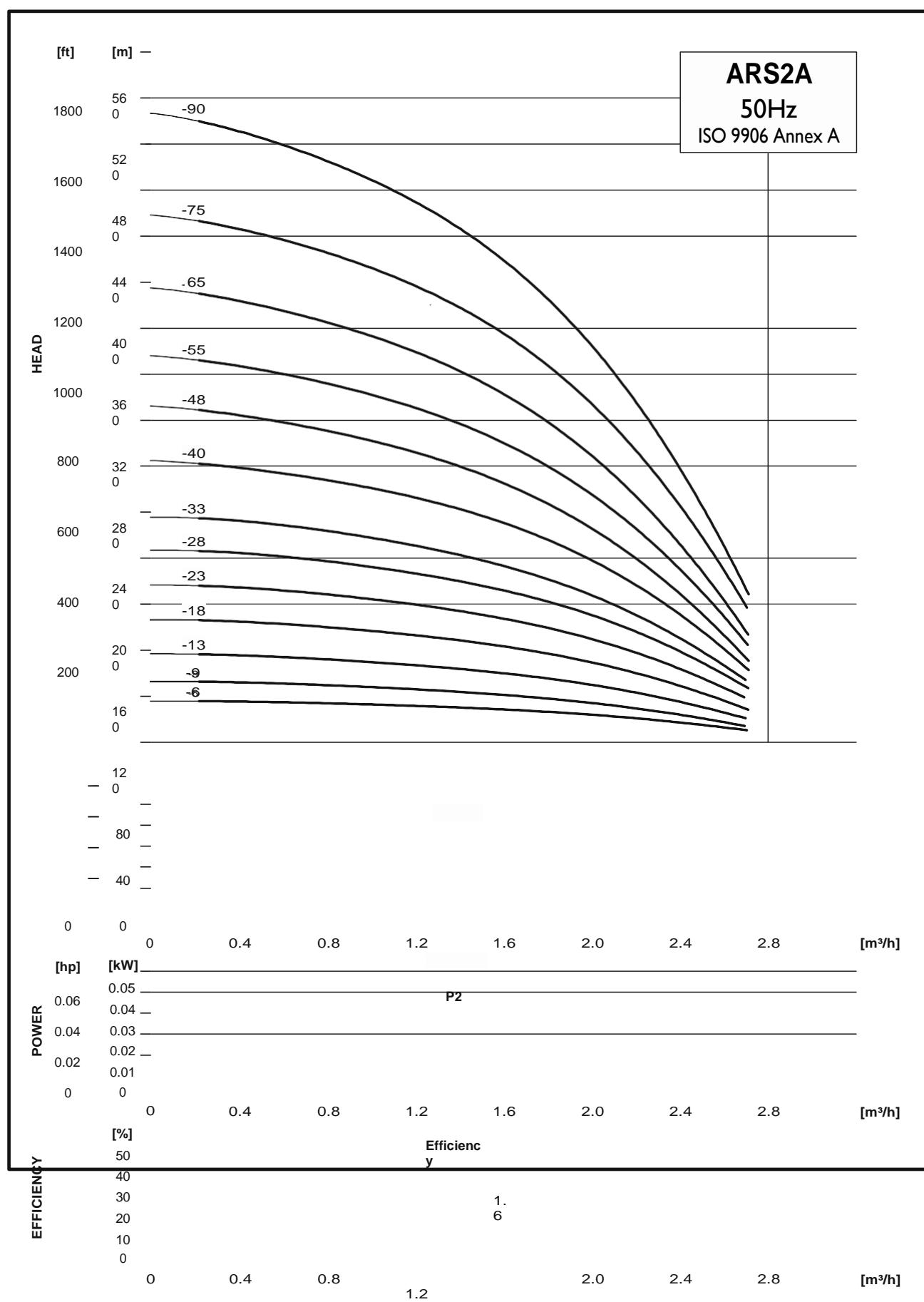


PUMP TYPE	MOTOR		DIMENSIONS (mm)						NET WEIGHT (kg)		
	TYPE AFM.... (inch/HP)	POWER (kW/HP)	C	B		A		D	E	1x230V	3x230V 3x400V
				1x230V	3x230V 3x400V	1x230V	3x230V 3x400V			1x230V	3x230V 3x400V
ARS1A-9	AFM4/0.5	0.37 / 0.5	356	427	531	783	887	96	98	16.4	17.9
ARS1A-14	AFM4/0.5	0.37 / 0.5	461	427	531	888	992	96	98	17.2	3.7
ARS1A-18	AFM4/0.75	0.55 / 0.75	545	447	-	992	-	96	98	17.9	-
ARS1A-21	AFM4/0.75	0.55 / 0.75	608	447	-	1055	-	96	98	18.5	-
ARS1A-28	AFM4/1	0.75 / 1	755	477	-	1232	-	96	98	20.7	-
ARS1A-36	AFM4/1.5	1.1 / 1.5	946	512	477	1458	1423	96	98	25.4	26.9
ARS1A-42	AFM4/1.5	1.1 / 1.5	1072	512	477	1584	1549	96	98	26.8	28.3
ARS1A-50	AFM4/2	1.5 / 2	1240	579	599	1819	1839	96	98	31	37
ARS1A-57	AFM4/2	1.5 / 2	1387	579	599	1966	1986	96	98	21.6	38.6

- On Request

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

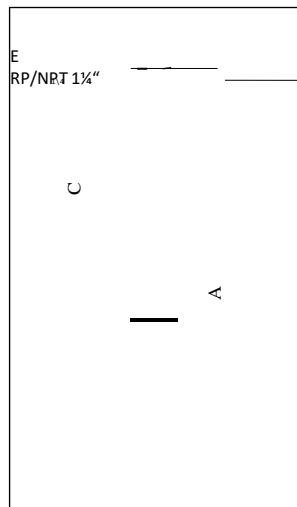
ARS2A - Performance Curves



16

ARS2A - Technical Data

Dimensions and Weight



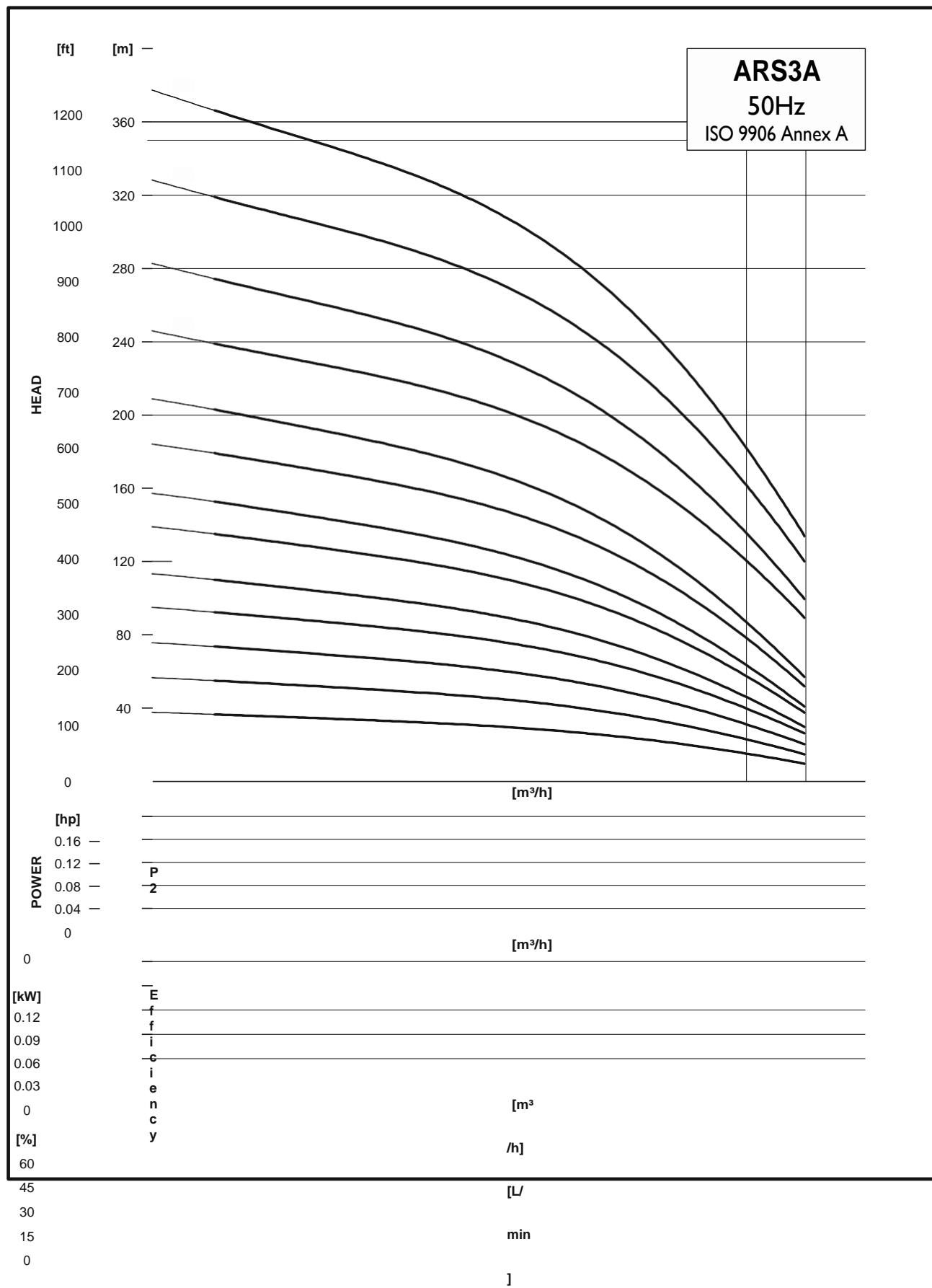
PUMP TYPE	MOTOR		C	DIMENSIONS (mm)					NET WEIGHT (kg)		
	TYPE AFM.... (inch/HP)	POWER (kW/HP)		B		A		D	E	1x230V	3x230V 3x400V
				1x230V	3x230V 3x400V	1x230V	3x230V 3x400V			1x230V	3x230V 3x400V
ARS2A-6	AFM4/0.5	0.37 / 0.5	293	427	531	720	824	96	98	15.9	17.4
ARS2A-9	AFM4/0.5	0.37 / 0.5	356	427	531	783	887	96	98	16.5	18
ARS2A-13	AFM4/0.75	0.55 / 0.75	440	447	-	887	-	96	98	17.3	-
ARS2A-18	AFM4/1.0	0.75 / 1	545	477	-	1022	-	96	98	19.2	-
ARS2A-23	AFM4/1.5	1.1 / 1.5	650	512	477	1162	1127	96	98	21.2	22.7
ARS2A-28	AFM4/2	1.5 / 2	755	579	599	1334	1354	96	98	23.6	29.6
ARS2A-33	AFM4/2	1.5 / 2	883	579	599	1462	1482	96	98	26.7	32.7
ARS2A-40	AFM4/3	2.2 / 3	1030	657	637	1687	1667	96	98	39.5	35.5
ARS2A-48	AFM4/3	2.2 / 3	1198	657	637	1855	1835	96	98	41.5	37.5
ARS2A-55	AFM4/4	3 / 4	1345		677		2022	96	98		41
ARS2A-65	AFM4/4	3 / 4	1555		677		2232	96	98		43.3
• ARS2A-75	AFM4/5.5	4 / 5.5	2140		737		2877	96	142		-
• ARS2A-90	AFM4/5.5	4 / 5.5	2455		737		3192	96	142		-

- Pump mounted in Sleeve.

- On Request

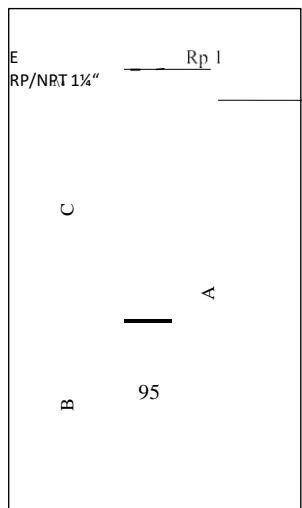
E = Max. Dia of Pump inclusive

ARS3A - Performance Curves



ARS3A - Technical Data

Dimensions and Weight

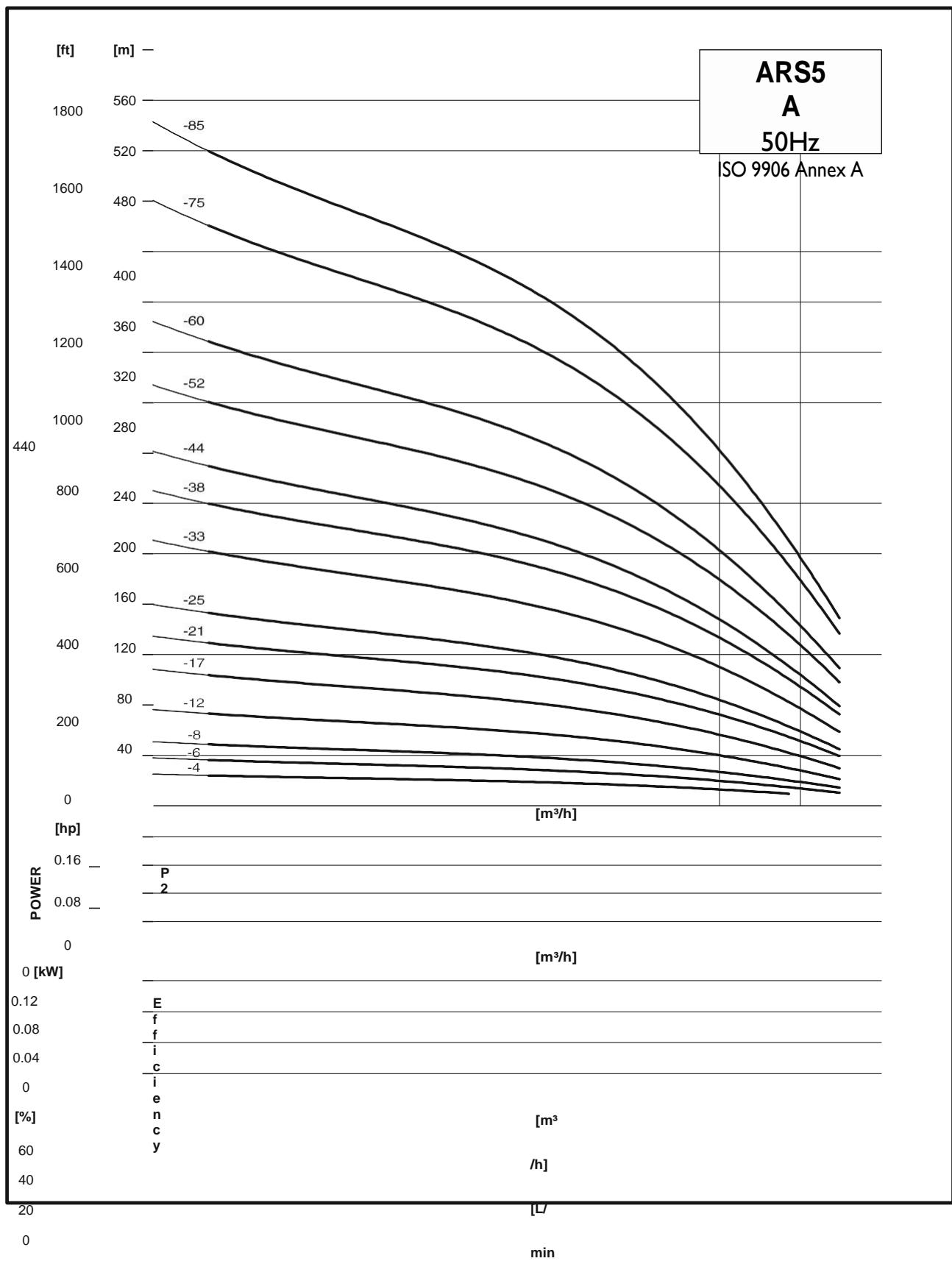


PUMP TYPE	MOTOR		C	DIMENSIONS (mm)					NET WEIGHT (kg)		
	TYPE AFM.... (inch/HP)	POWER (KW/HP)		B	A		D	E	1x230V	3x230V 3x400V	
				1x230V	3x230V 3x400V	1x230V			1x230V	3x230V 3x400V	
ARS3A-6	AFM4/0.5	0.37 / 0.5	293	427	531	720	824	96	98	15.9	17.4
ARS3A-9	AFM4/0.75	0.55 / 0.75	356	447	-	803	-	96	98	16.5	-
ARS3A-12	AFM4/1	0.75 / 1	419	477	-	896	-	96	98	18.1	-
ARS3A-15	AFM4/1.5	1.1 / 1.5	482	512	477	994	959	96	98	19.7	21.2
ARS3A-18	AFM4/1.5	1.1 / 1.5	545	512	477	1057	1022	96	98	20.2	21.7
ARS3A-22	AFM4/2	1.5 / 2	629	579	599	1208	1228	96	98	22.5	28.5
ARS3A-25	AFM4/2	1.5 / 2	692	579	599	1271	1291	96	98	23.1	29.1
ARS3A-29	AFM4/3	2.2 / 3	776	657	637	1433	1413	96	98	34.8	30.8
ARS3A-33	AFM4/3	2.2 / 3	883	657	637	1540	1520	96	98	37.7	33.7
ARS3A-39	AFM4/4	3 / 4	1009		677		1686	96	98		37.2
ARS3A-45	AFM4/4	3 / 4	1135		677		1812	96	98		38.7
ARS3A-52	AFM4/5.5	4 / 5.5	1282		737		2019	96	98		43.7
ARS3A-60	AFM4/5.5	4 / 5.5	1450		737		2187	96	98		45.5

- On Request

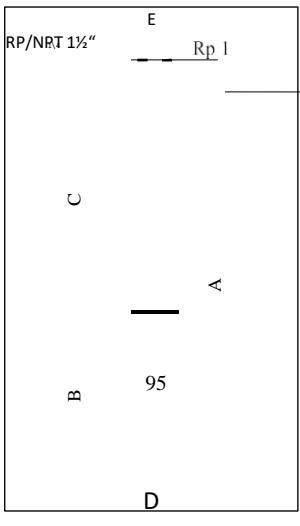
E = Max. Dia of Pump inclusive
of cable guard & motor.

ARS5A - Performance Curves



ARS5A - Technical Data

Dimensions and Weight



The technical drawing shows the side profile of the ARS5A pump. Dimension A is the height from the base to the center of the pump body. Dimension B is the width of the pump body. Dimension C is the length of the pump body. Dimension D is the distance from the front face of the pump to the center of the flange. Dimension E is the maximum diameter of the pump, including the cable guard and motor. Dimension Rp 1 indicates the flange size.

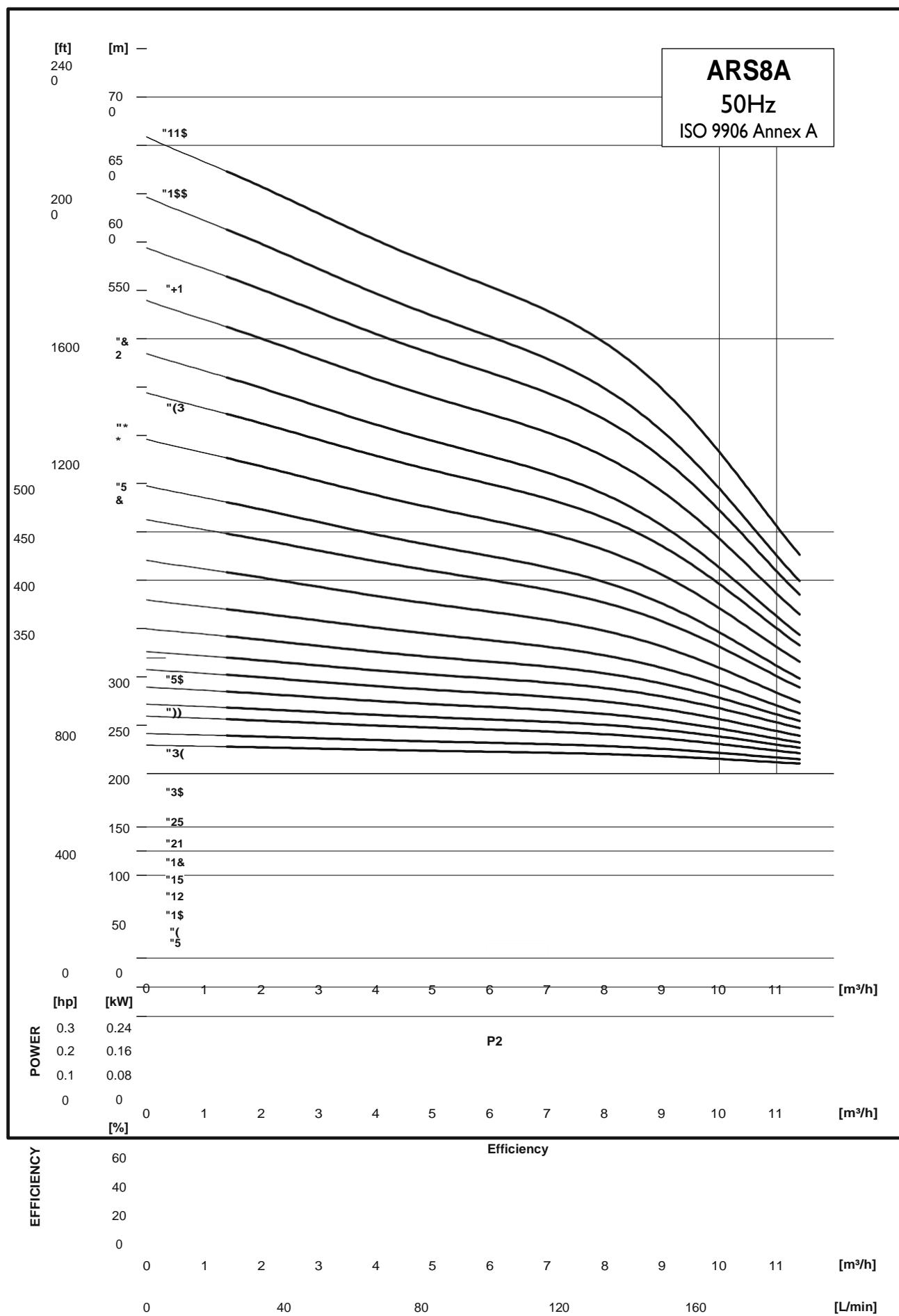
PUMP TYPE	MOTOR		DIMENSIONS (mm)						NET WEIGHT (kg)		
	TYPE AFM.... (inch/HP)	POWER (kW/HP)	C	B		A		D	E	1x230V	3x230V
				1x230V	3x400V	1x230V	3x230V 3x400V			1x230V	3x230V 3x400V
ARSSA-4	AFM4/0.5	0.37 / 0.5	251	427	531	678	782	96	98	15.5	17
ARSSA-6	AFM4/0.75	0.55 / 0.75	293	447	-	740	-	96	98	15.9	-
ARSSA-8	AFM4/1	0.75 / 1	335	477	-	812	-	96	98	17.3	-
ARSSA-12	AFM4/1.5	1.1 / 1.5	419	512	477	931	896	96	98	19.1	20.6
ARSSA-17	AFM4/2	1.5 / 2	524	579	599	1103	1123	96	98	21.5	27.5
ARSSA-21	AFM4/3	2.2 / 3	608	657	637	1265	1245	96	98	33.3	29.3
ARSSA-25	AFM4/3	2.2 / 3	692	657	637	1349	1329	96	98	34	30
ARSSA-33	AFM4/4	3 / 4	868		677		1545	96	98		35.6
ARSSA-38	AFM4/5.5	4 / 5.5	973		737		1710	96	98		39.9
ARSSA-44	AFM4/5.5	4 / 5.5	1099		737		1836	96	98		41.4
ARSSA-52	AFM4/7.5	5.5 / 7.5	1362		877		2239	96	98		51.05
ARSSA-60	AFM4/7.5	5.5 / 7.5	1530		877		2407	96	98		52.7
ARSSA-52	AFM6/7.5	5.5 / 7.5	1424		676		2100	144	136		64.1
ARSSA-60	AFM6/7.5	5.5 / 7.5	1592		676		2268	144	136		65.75
• ARSSA-75	AFM6/10	7.5 / 10	1907		706		2613	144	142		-
• ARSSA-85	AFM6/10	7.5 / 10	2117		706		2823	144	142		-

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

• Pump mounted in Sleeve.

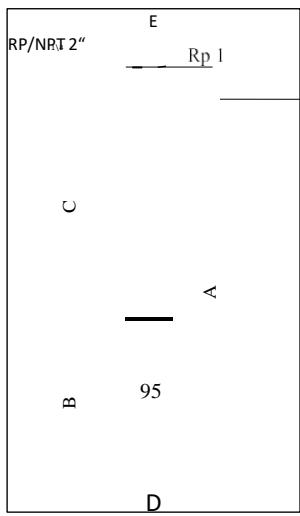
- On Request

ARS8A - Performance Curves



ARS8A - Technical Data

Dimensions and Weight



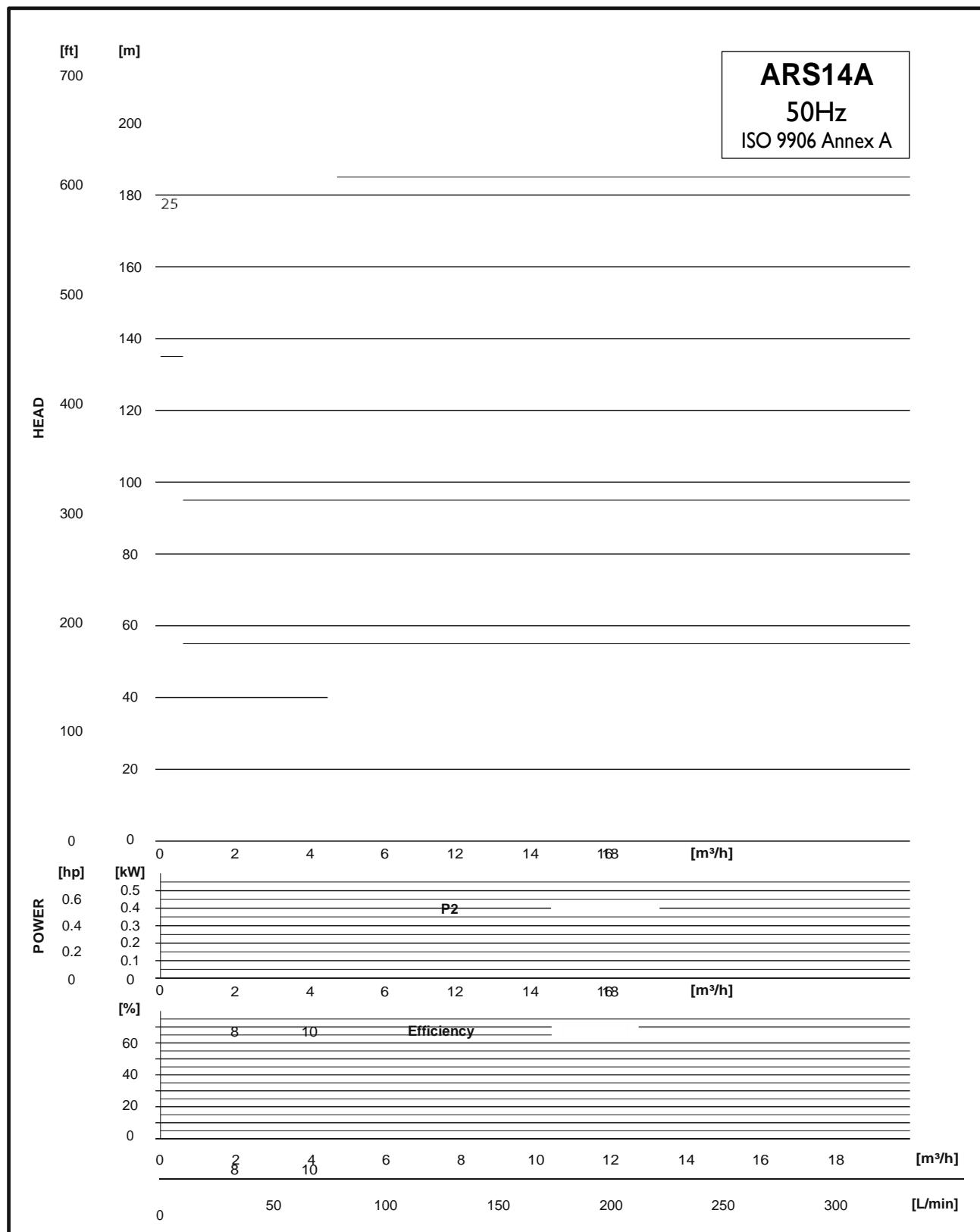
The technical drawing shows the side profile of the ARS8A pump. Dimension A is the height from the base to the center of the pump body. Dimension B is the width of the pump body. Dimension C is the length of the pump body. Dimension D is the distance from the front face of the pump to the center of the flange. Dimension E is the maximum diameter of the pump, including the cable guard and motor. Dimension Rp 1 indicates the flange size.

PUMP TYPE	MOTOR		DIMENSIONS (mm)						NET WEIGHT (kg)		
	TYPE AFM.... (inch/HP)	POWER (kW/HP)	C	B		A		D	E	1x230V	3x230V 3x400V
				1x230V	3x230V 3x400V	1x230V	3x230V 3x400V			1x230V	3x230V 3x400V
ARS8A-5	AFM4/1	0.75 / 1	412	477	-	889	-	96	98	18.8	-
ARS8A-7	AFM4/1.5	1.1 / 1.5	496	512	-	1008	-	96	98	20.8	-
ARS8A-10	AFM4/2	1.5 / 2	622	579	599	1201	1221	96	98	23.8	29.8
ARS8A-12	AFM4/3	2.2 / 3	706	657	637	1363	1343	96	98	35.8	31.8
ARS8A-15	AFM4/3	2.2 / 3	832	657	637	1489	1469	96	98	37.3	33.3
ARS8A-18	AFM4/4	3 / 4	958		677		1635	96	98		36.8
ARS8A-21	AFM4/5.5	4 / 5.5	1084		737		1821	96	98		41.3
ARS8A-25	AFM4/5.5	4 / 5.5	1252		737		1989	96	98		43.3
ARS8A-30	AFM4/7.5	5.5 / 7.5	1462		877		2339	96	98		53.1
ARS8A-37	AFM4/7.5	5.5 / 7.5	1753		877		2630	96	98		56.6
ARS8A-44	AFM4/10	7.5 / 10	2050		1017		3067	96	98		66.8
ARS8A-50	AFM4/10	7.5 / 10	2302		1017		3319	96	98		69.8
ARS8A-30	AFM6/7.5	5.5 / 7.5	1560		676		2236	144	136		66.5
ARS8A-37	AFM6/7.5	5.5 / 7.5	1840		676		2516	144	136		69.85
ARS8A-44	AFM6/10	7.5 / 10	2140		706		2846	144	136		72.5
ARS8A-50	AFM6/10	7.5 / 10	2390		706		3096	144	136		78.5
• ARS8A-58	AFM6/12.5	9.2 / 12.5	3040		736		3776	144	142		111.3
• ARS8A-66	AFM6/15	11 / 15	3376		776		4152	144	142		126.8
• ARS8A-73	AFM6/15	11 / 15	3670		776		4446	144	142		133.4
• ARS8A-82	AFM6/17.5	13 / 17.5	4048		826		4874	144	142		147.5
• ARS8A-91	AFM6/20	15 / 20	4426		866		5292	144	142		159.5
• ARS8A-100	AFM6/20	15 / 20	4804		866		5670	144	142		164.7
• ARS8A-110	AFM6/25	18.5 / 25	5224		921		6145	144	142		179

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

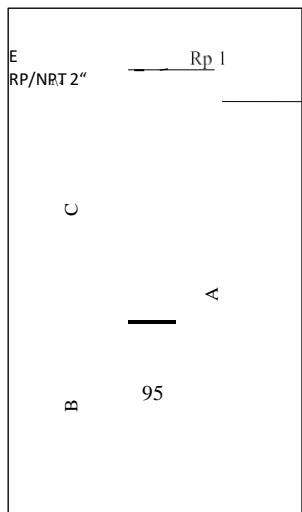
- Pump mounted in Sleeve
- On Request

ARS14A - Performance Curve



ARS14A - Technical Data

Dimensions and Weight



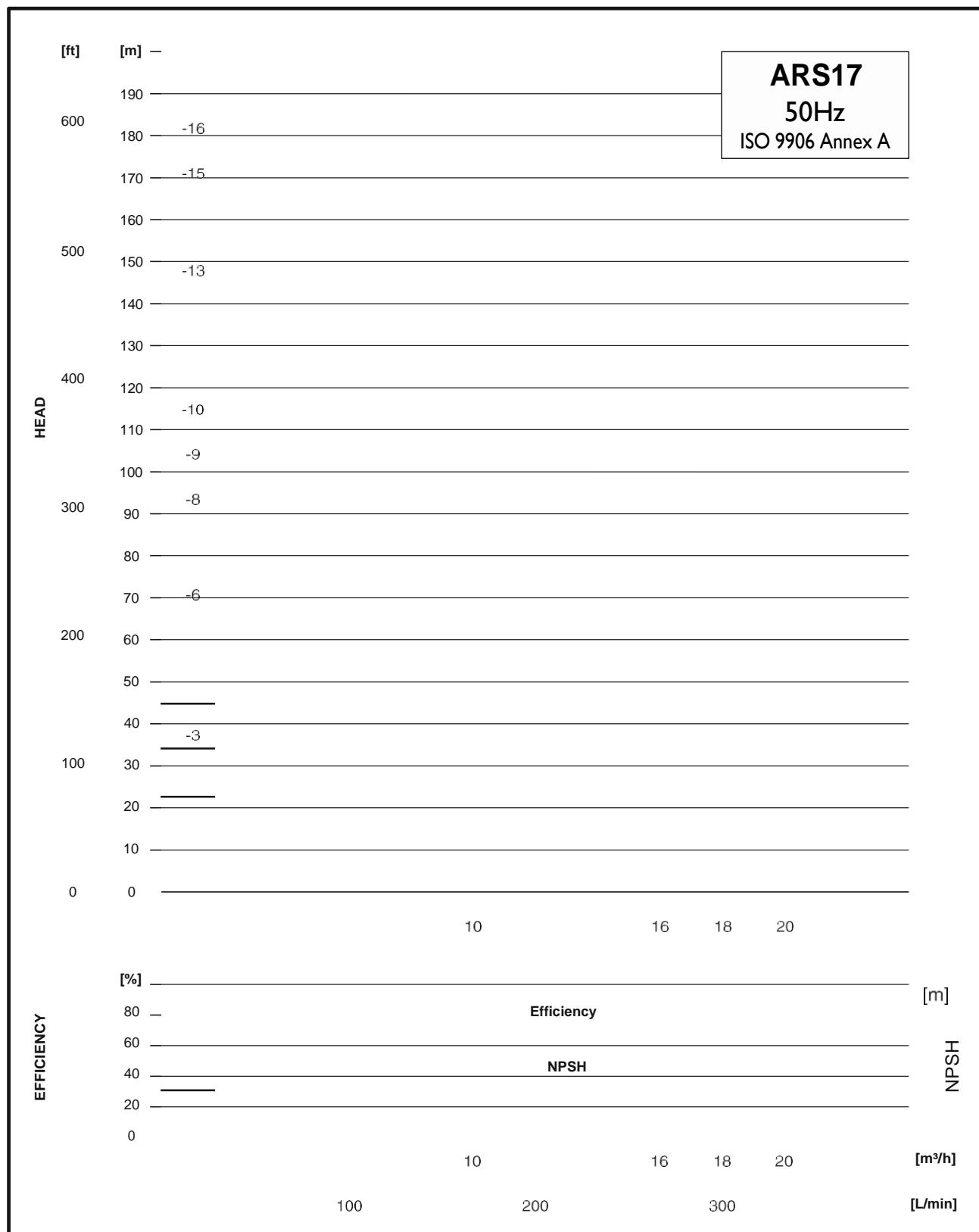
The technical drawing shows a side view of the pump. Dimension A is the height, dimension B is the width, dimension C is the length, dimension D is the distance from the front face to the center of the coupling, and dimension E is the maximum diameter of the pump inclusive of the cable guard and motor. The power rating is indicated as RP/NRT 2''.

PUMP TYPE	MOTOR		C	DIMENSIONS (mm)					NET WEIGHT (kg)		
	TYPE AFM.... (inch/HP)	POWER (KW/HP)		B 1x230V 3x400V	A 1x230V 3x400V	D	E	1x230V	3x400V		
ARS14A-5	AFM4/2	1.5 / 2	505	299	599	804	1104	96	98	22	28
ARS14A-7	AFM4/3	2.2 / 3	635	657	637	1292	1272	96	98	34.3	30.3
ARS14A-10	AFM4/4	3 / 4	830		677		1507	96	98		34.2
ARS14A-13	AFM4/5.5	3.7 / 5.5	1025		737		1762	96	98		39.2
ARS14A-18	AFM4/7.5	5.5 / 7.5	1350		877		2227	96	98		49.7
ARS14A-25	AFM4/10	7.5 / 10	1805		1017		2822	96	98		60.8
ARS14A-18	AFM6/7.5	5.5 / 7.5	1450		676		2126	144	136		63.77
ARS14A-25	AFM6/10	7.5 / 10	1905		706		2611	144	136		-

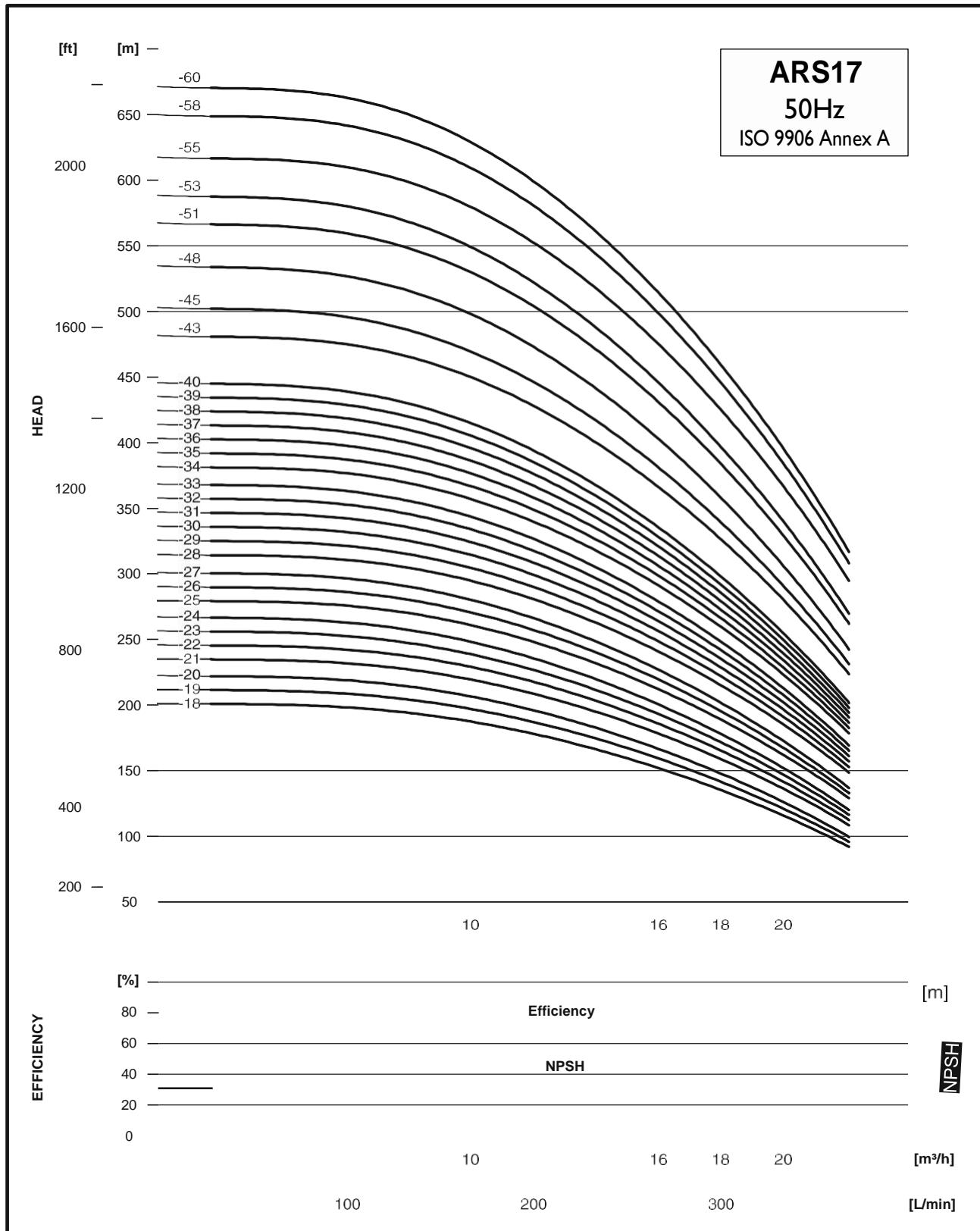
- On Request

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

ARS17 - Performance

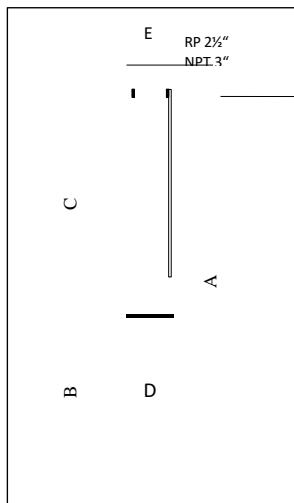


ARS17 - Performance



ARS17 - Technical

Dimensions and Weight



PUMP TYPE	MOTOR		C	DIMENSIONS (mm)						NET WEIGHT (kg)		
	TYPE AFM.... (inch/HP)	POWER (kW/HP)		B		A		D	E*	E**	1x230V 3x400V	3x230V 3x400V
ARS17-1	AFM4/0.75	0.55 / 0.75	343	447	-	790	-	96	131		20	-
ARS17-2	AFM4/1.5	1.1 / 1.5	403	512	477	915	880	96	131		23.2	23.4
ARS17-3	AFM4/3	2.2 / 3	435	657	637	1092	1072	96	131		35.3	31.3
ARS17-4	AFM4/3	2.2 / 3	524	657	637	1181	1161	96	131		37.3	33.3
ARS17-5	AFM4/4	3 / 4	585		677		1262	96	131		36.8	
ARS17-6	AFM4/5.5	4 / 5.5	616		737		1353	96	131		41.2	
ARS17-7	AFM4/5.5	4 / 5.5	677		737		1414	96	131		42.7	
ARS17-8	AFM4/7.5	5.5 / 7.5	737		877		1614	96	131		50.4	
ARS17-9	AFM4/7.5	5.5 / 7.5	798		877		1675	96	131		51.7	
ARS17-10	AFM4/7.5	5.5 / 7.5	858		877		1735	96	131		54.3	
ARS17-11	AFM4/10	7.5 / 10	919		1017		1936	96	142		61.2	
ARS17-12	AFM4/10	7.5 / 10	979		1017		1996	96	142		62.6	
ARS17-13	AFM4/10	7.5 / 10	1040		1017		2057	96	142		64	
ARS17-8	AFM6/7.5	5.5 / 7.5	753		676		1429	144	142		63	
ARS17-9	AFM6/7.5	5.5 / 7.5	814		676		1490	144	142		64.6	
ARS17-10	AFM6/7.5	5.5 / 7.5	874		676		1550	144	142		66	
ARS17-11	AFM6/10	7.5 / 10	935		706		1641	144	142		69.5	
ARS17-12	AFM6/10	7.5 / 10	995		706		1701	144	142		71	
ARS17-13	AFM6/10	7.5 / 10	1056		706		1762	144	142		72.4	
ARS17-14	AFM6/12.5	9.2 / 12.5	1116		736		1852	144	142	142	75.6	
ARS17-15	AFM6/12.5	9.2 / 12.5	1177		736		1913	144	142	142	77	
ARS17-16	AFM6/12.5	9.2 / 12.5	1237		736		1973	144	142	142	78.5	
ARS17-17	AFM6/12.5	9.2 / 12.5	1311		736		2047	144	142	142	80	
ARS17-18	AFM6/15	11 / 15	1358		776		2134	144	142	142	89.2	
ARS17-19	AFM6/15	11 / 15	1419		776		2195	144	142	142	90.7	
ARS17-20	AFM6/15	11 / 15	1492		776		2268	144	142	142	92	
ARS17-21	AFM6/17.5	13 / 17.5	1540		826		2366	144	142	142	99.2	
ARS17-22	AFM6/17.5	13 / 17.5	1613		826		2439	144	142	142	100.5	
ARS17-23	AFM6/17.5	13 / 17.5	1661		826		2487	144	142	142	102	
ARS17-24	AFM6/17.5	13 / 17.5	1734		826		2560	144	142	142	103.5	
ARS17-25	AFM6/20	15 / 20	1782		866		2648	144	142	142	108.4	
ARS17-26	AFM6/20	15 / 20	1842		866		2708	144	142	142	109.8	
ARS17-27	AFM6/20	15 / 20	1916		866		2782	144	142	142	111.3	
ARS17-28	AFM6/25	18.5 / 25	1963		921		2884	144	142	142	118.5	
ARS17-29	AFM6/25	18.5 / 25	2037		921		2958	144	142	142	120	
ARS17-30	AFM6/25	18.5 / 25	2084		921		3005	144	142	142	121.4	
ARS17-31	AFM6/25	18.5 / 25	2158		921		3079	144	142	142	123	
ARS17-32	AFM6/25	18.5 / 25	2205		921		3126	144	142	142	124.3	
ARS17-33	AFM6/25	18.5 / 25	2279		921		3200	144	142	142	125.8	
ARS17-34	AFM6/30	22 / 30	2326		996		3322	144	142	142	137	
ARS17-35	AFM6/30	22 / 30	2387		996		3383	144	142	142	138.9	
ARS17-36	AFM6/30	22 / 30	2460		996		3456	144	142	142	140	
ARS17-37	AFM6/30	22 / 30	2508		996		3504	144	142	142	141.8	
ARS17-38	AFM6/30	22 / 30	2581		996		3577	144	142	142	142.8	
ARS17-39	AFM6/30	22 / 30	2629		996		3625	144	142	142	144.7	
ARS17-40	AFM6/30	22 / 30	2702		996		3698	144	142	142	145.7	
• ARS17-43	AFM6/35	26 / 35	3196		1056		4252	144	167		169.8	
• ARS17-45	AFM6/35	26 / 35	3317		1056		4373	144	167		--	
• ARS17-48	AFM6/35	26 / 35	3499		1056		4555	144	167		187.3	
• ARS17-51	AFM6/40	30 / 40	3680		1176		4856	144	167		232.8	
• ARS17-53	AFM6/40	30 / 40	3749		1176		4925	144	167		237.2	
• ARS17-55	AFM8/50	37 / 50	3870		1010		4880	190	183		281.3	
• ARS17-58	AFM8/50	37 / 50	4052		1010		5062	190	183		286.4	
• ARS17-60	AFM8/50	37 / 50	4173		1010		5183	190	183		291.7	

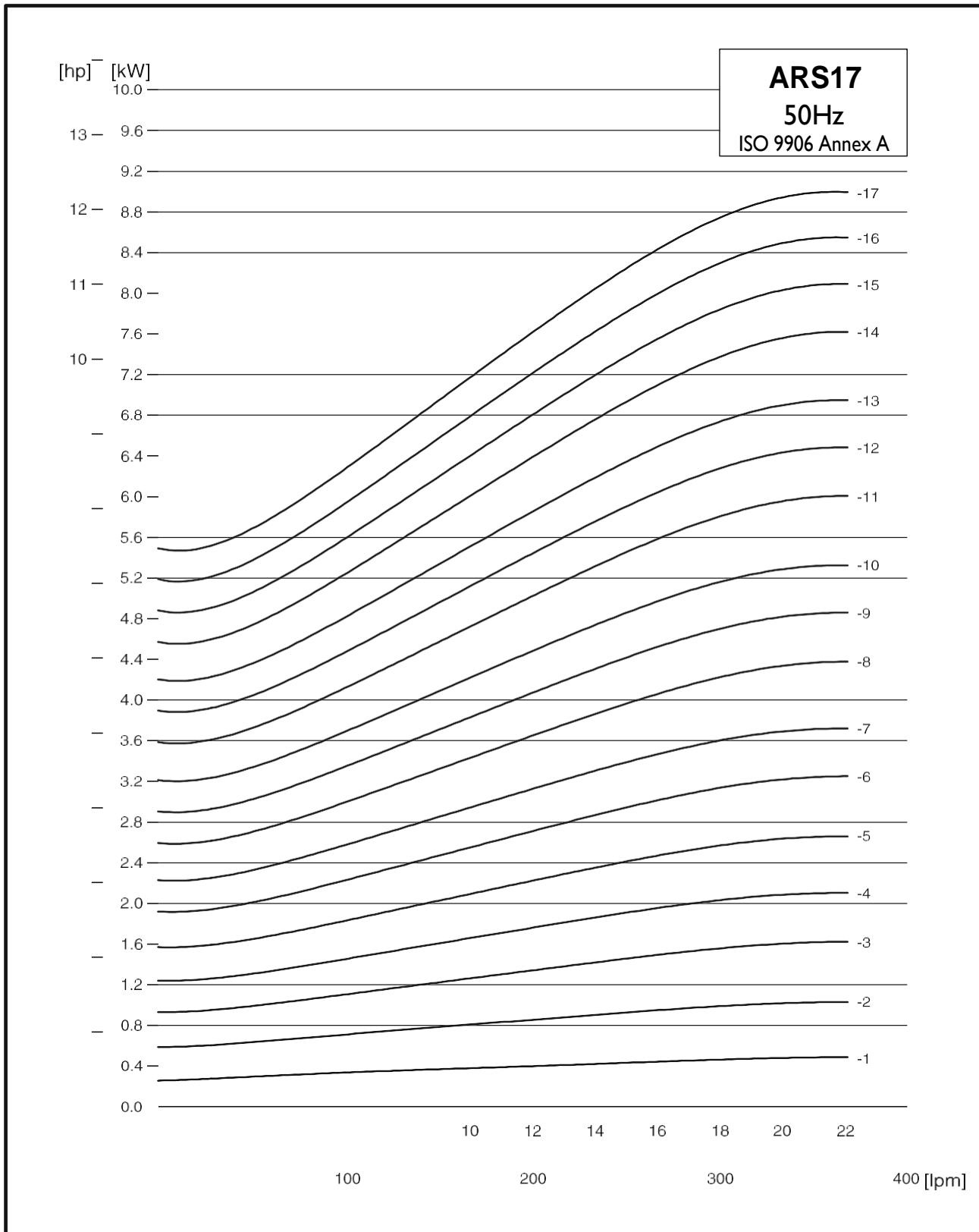
• Pump mounted in Sleeve

* Maximum diameter of pump with one motor cable

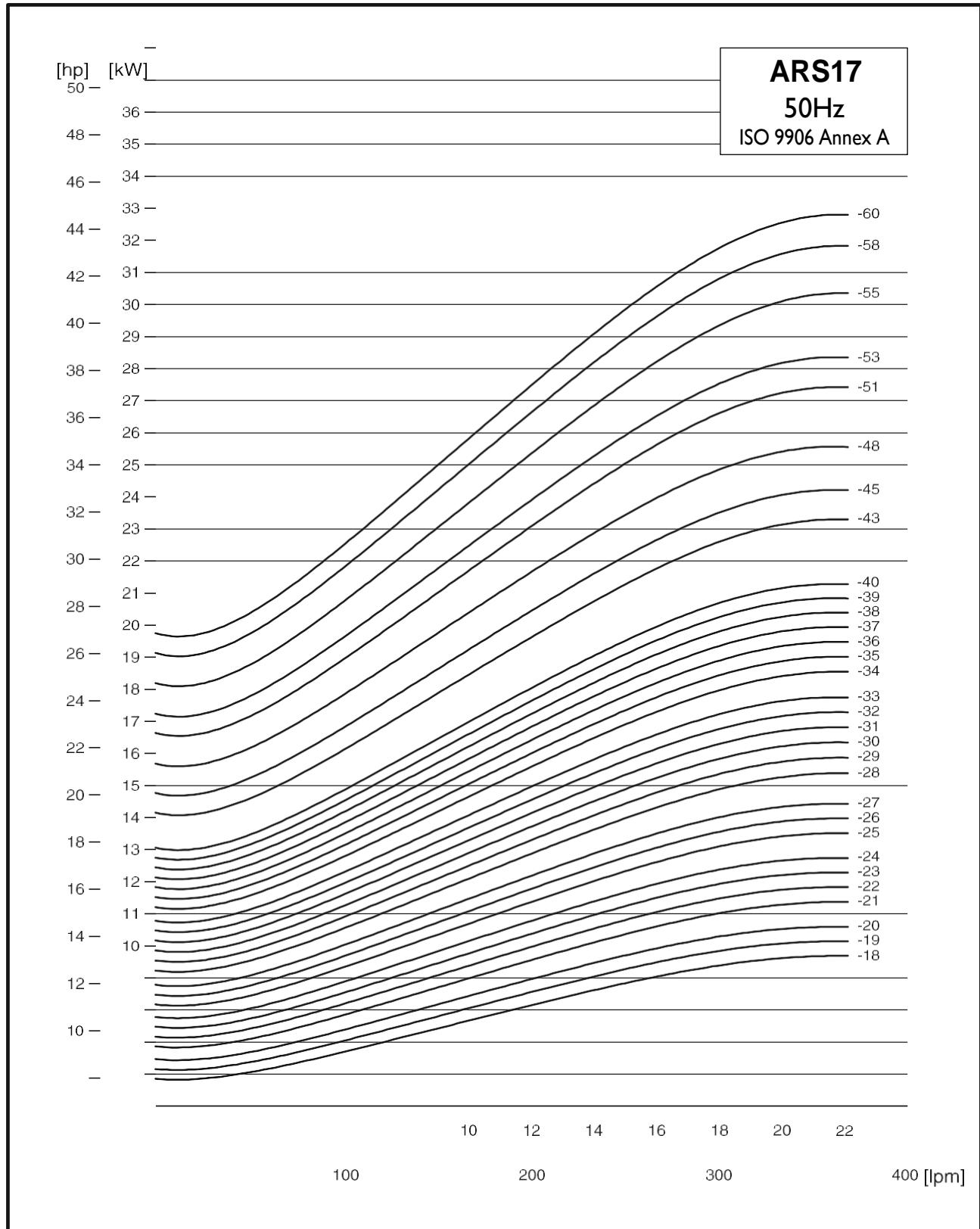
** Maximum diameter of pump with two motor cables

- On Request

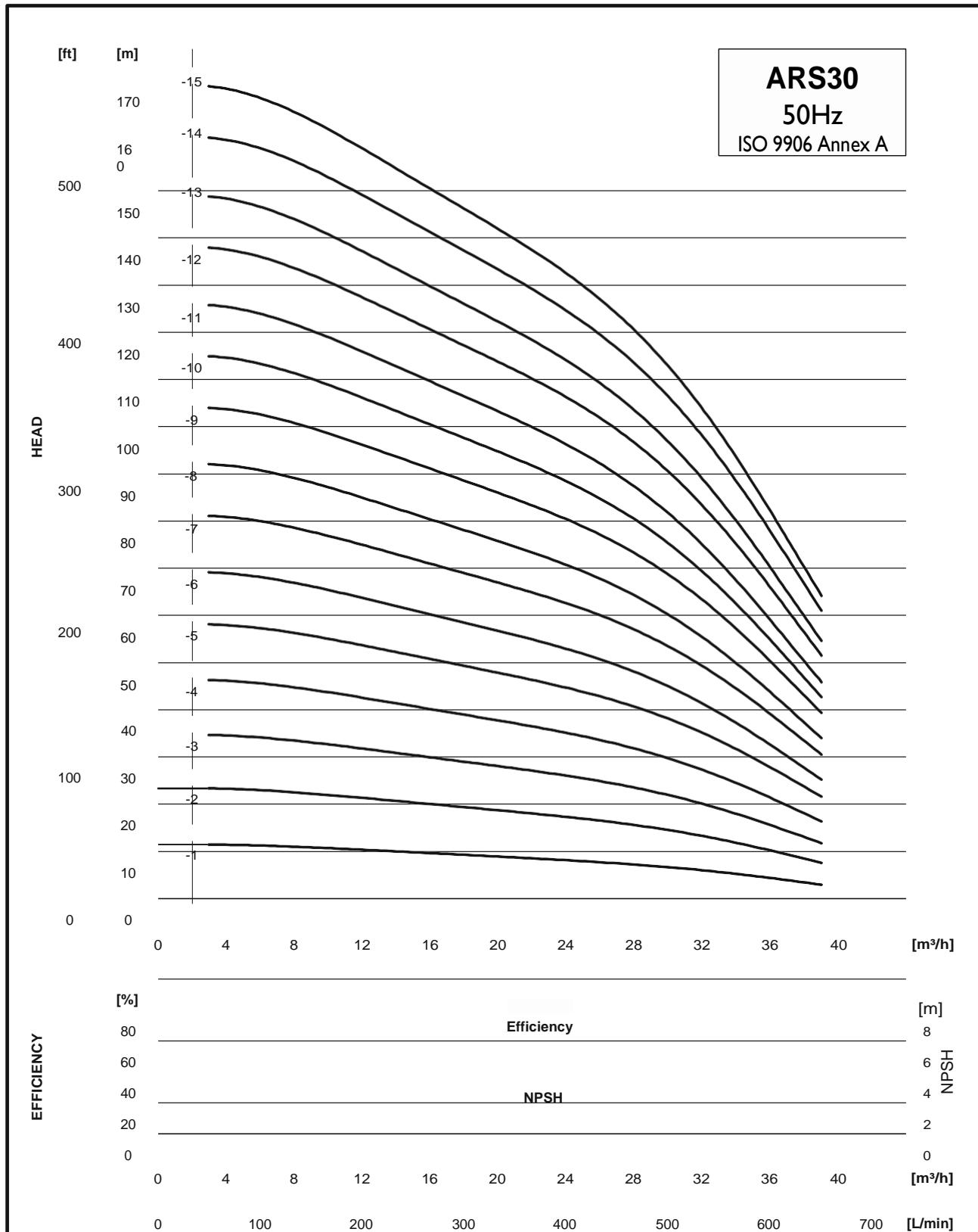
ARS17 - Power



ARS17 - Power



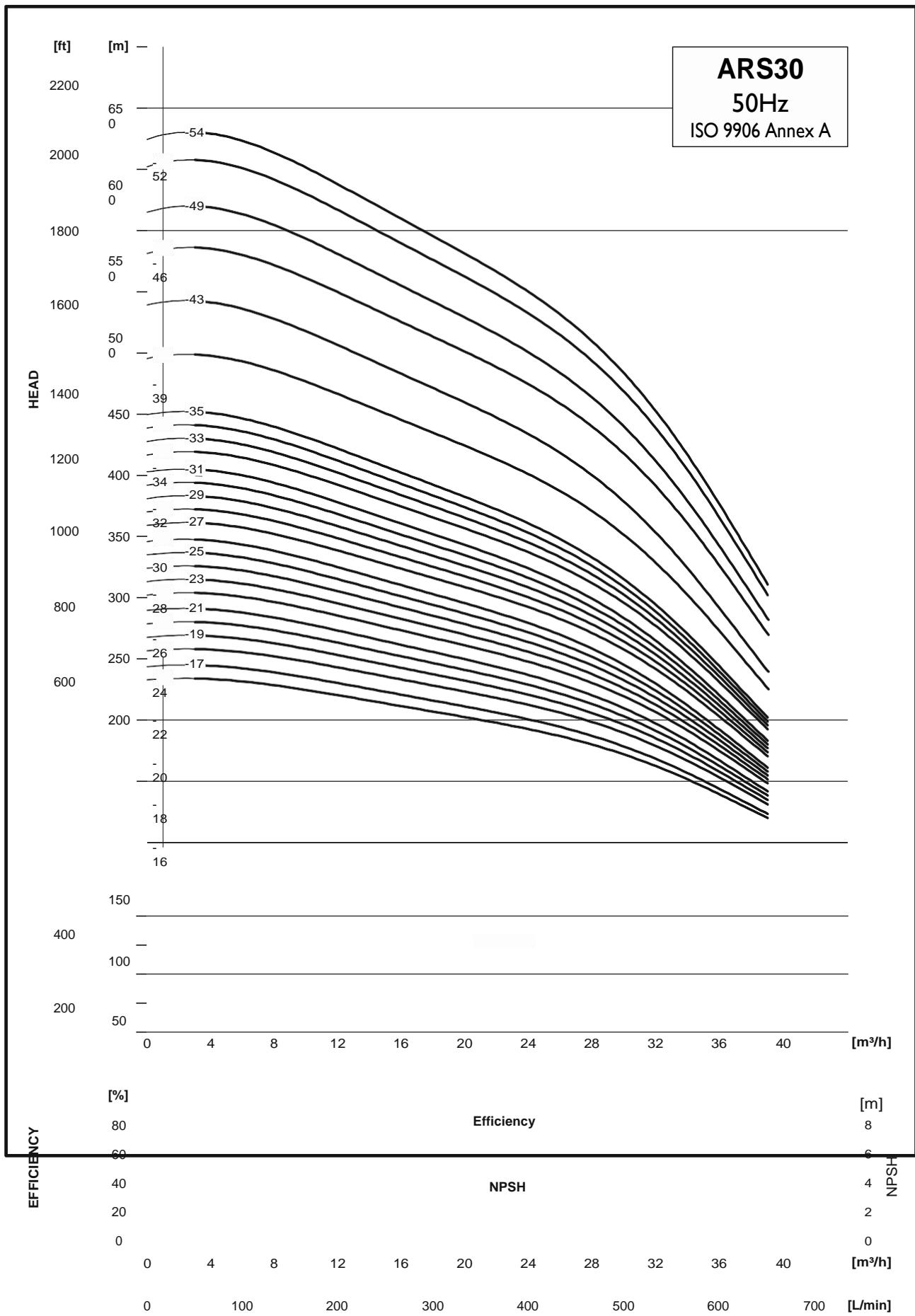
ARS30 - Performance



ARS30 - Performance

Technical Data

ARS30 - Performance

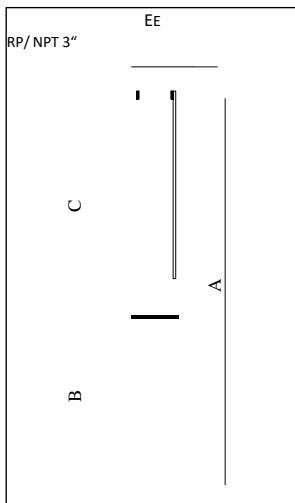


ARS30 - Performance

32

ARS30 - Technical Data

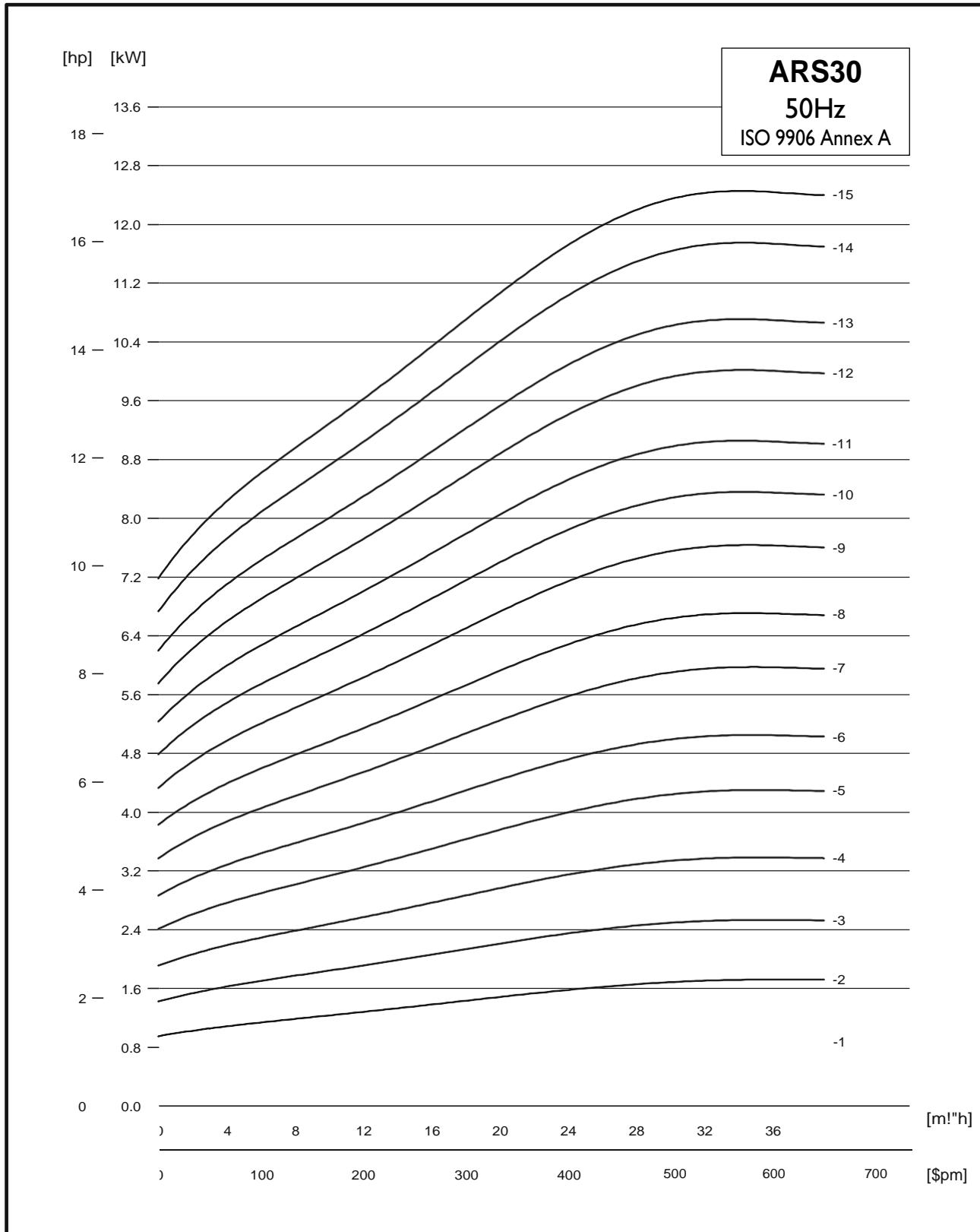
Dimensions and Weight



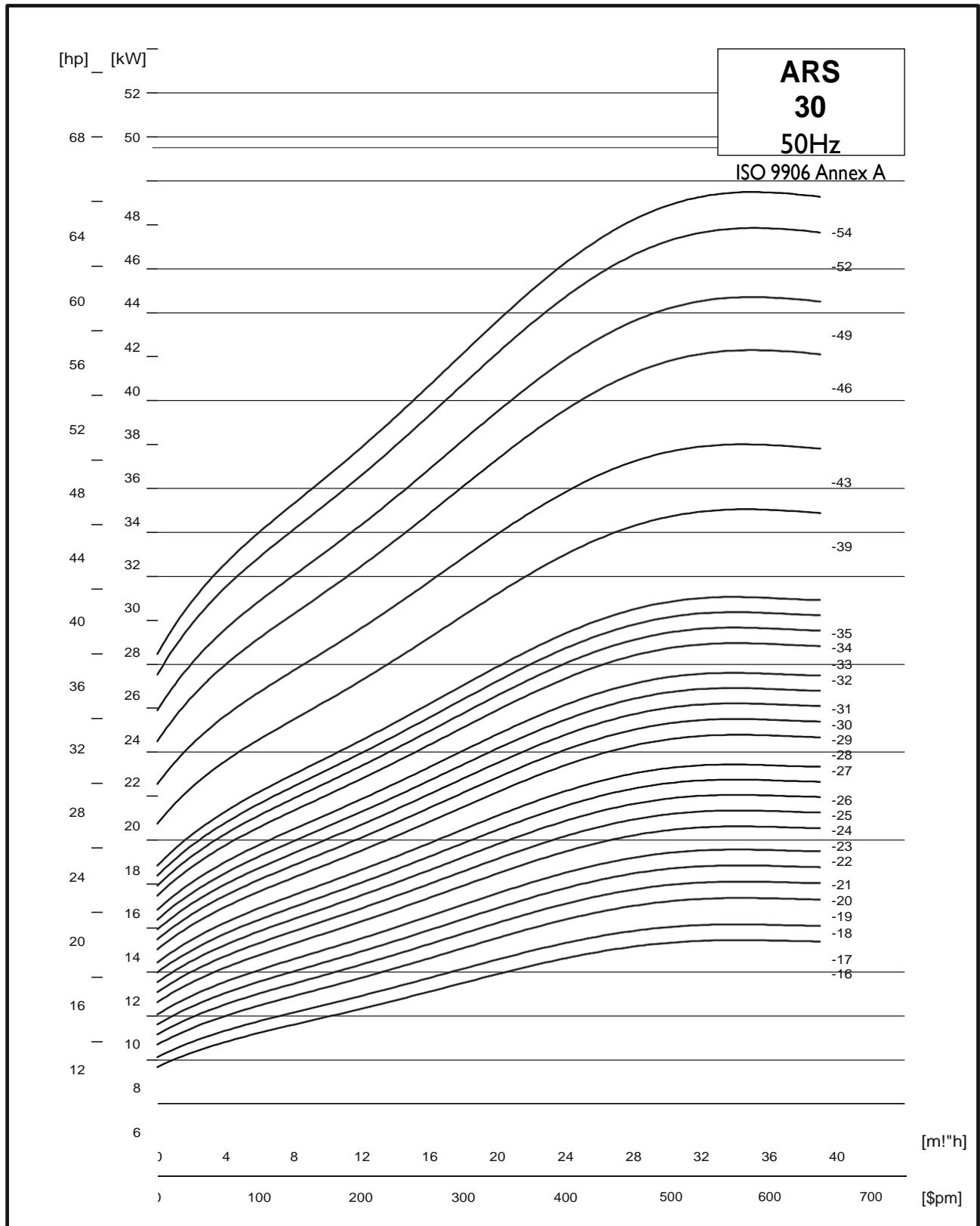
PUMP TYPE	MOTOR		DIMENSIONS (mm)						NET WEIGHT (kg)			
	TYPE AFM.... (inch/HP)	POWER (kW/HP)	C	B		A		D	E*	E**	1x230V	3x230V
				1x230V	3x400V	1x230V	3x230V					3x400V
ARS30-1	AFM4/1.5	1.1 / 1.5	350	512	477	862	827	96	131		22.2	23.7
ARS30-2	AFM4/3	2.2 / 3	462	657	637	1119	1099	96	131		36.5	32.4
ARS30-3	AFM4/4	3 / 4	558		677		1235	96	131			34.1
ARS30-4	AFM4/5.5	4 / 5.5	654		737		1391	96	131			40.8
ARS30-5	AFM4/7.5	5.5 / 7.5	734		877		1611	96	131			48.6
ARS30-6	AFM4/7.5	5.5 / 7.5	830		877		1707	96	131			50.4
ARS30-7	AFM4/10	7.5 / 10	926		1017		1943	96	142			58.9
ARS30-8	AFM4/10	7.5 / 10	1038		1017		2055	96	142	142		60.7
ARS30-5	AFM6/7.5	5.5 / 7.5	750		676		1426	144	142	142		61.5
ARS30-6	AFM6/7.5	5.5 / 7.5	846		676		1522	144	142	142		63.2
ARS30-7	AFM6/10	7.5 / 10	842		706		1548	144	142	142		66.9
ARS30-8	AFM6/10	7.5 / 10	1038		706		1744	144	142	142		68.6
ARS30-9	AFM6/12.5	9.2 / 12.5	1134		736		1870	144	142	142		72.1
ARS30-10	AFM6/12.5	9.2 / 12.5	1230		736		1966	144	142	142		73.8
ARS30-11	AFM6/15	11 / 15	1326		776		2102	144	142	142		75.4
ARS30-12	AFM6/15	11 / 15	1422		776		2198	144	142	142		85
ARS30-13	AFM6/15	11 / 15	1518		776		2294	144	142	142		86.6
ARS30-14	AFM6/17.5	13 / 17.5	1614		826		2440	144	142	142		94
ARS30-15	AFM6/20	15 / 20	1710		866		2576	144	142	142		99
ARS30-16	AFM6/20	15 / 20	1806		866		2672	144	142	142		100
ARS30-17	AFM6/20	15 / 20	1902		866		2768	144	142	142		102.4
ARS30-18	AFM6/25	18.5 / 25	1998		921		2919	144	142	142		110
ARS30-19	AFM6/25	18.5 / 25	2094		921		3015	144	142	142		111.6
ARS30-20	AFM6/25	18.5 / 25	2190		921		3111	144	142	142		113.4
ARS30-21	AFM6/25	18.5 / 25	2286		921		3207	144	142	142		115
ARS30-22	AFM6/30	22 / 30	2382		996		3378	144	142	142		126.6
ARS30-23	AFM6/30	22 / 30	2478		996		3474	144	142	142		128.3
ARS30-24	AFM6/30	22 / 30	2574		996		3570	144	142	142		129.8
ARS30-25	AFM6/30	22 / 30	2670		996		3666	144	142	142		131.7
ARS30-26	AFM6/30	22 / 30	2766		996		3762	144	142	142		133.2
ARS30-27	AFM6/35	26 / 35	2862		1056		3918	144	142	142		143.9
ARS30-28	AFM6/35	26 / 35	2958		1056		4014	144	142	142		145.6
ARS30-29	AFM6/35	26 / 35	3054		1056		4110	144	142	142		147.1
ARS30-30	AFM6/35	26 / 35	3150		1056		4206	144	142	142		149
ARS30-31	AFM6/40	30 / 40	3246		1176		4422	144	142	142		157.7
ARS30-32	AFM6/40	30 / 40	3342		1176		4518	144	142	142		159.2
ARS30-33	AFM6/40	30 / 40	3438		1176		4614	144	142	142		161.1
ARS30-34	AFM6/40	30 / 40	3534		1176		4710	144	142	142		163.74
ARS30-35	AFM6/40	30 / 40	3630		1176		4806	144	142	142		164.3
• ARS30-39	AFM8/50	37 / 50	4360		1010		5370	190	178	181		264
• ARS30-43	AFM8/50	37 / 50	4744		1010		5754	190	178	181		284
• ARS30-46	AFM8/60	45 / 60	5032		1062		6094	190	192	192		306
• ARS30-49	AFM8/60	45 / 60	5320		1062		6382	190	192	192		321
• ARS30-52	AFM8/75	55 / 75	5608		1168		6776	190	192	192		348
• ARS30-54	AFM8/75	55 / 75	5800		1168		6968	190	192	192		358

- Pump mounted in Sleeve
- * Maximum diameter of pump with one motor cable
- ** Maximum diameter of pump with two motor cables
- On Request

ARS30 - Power



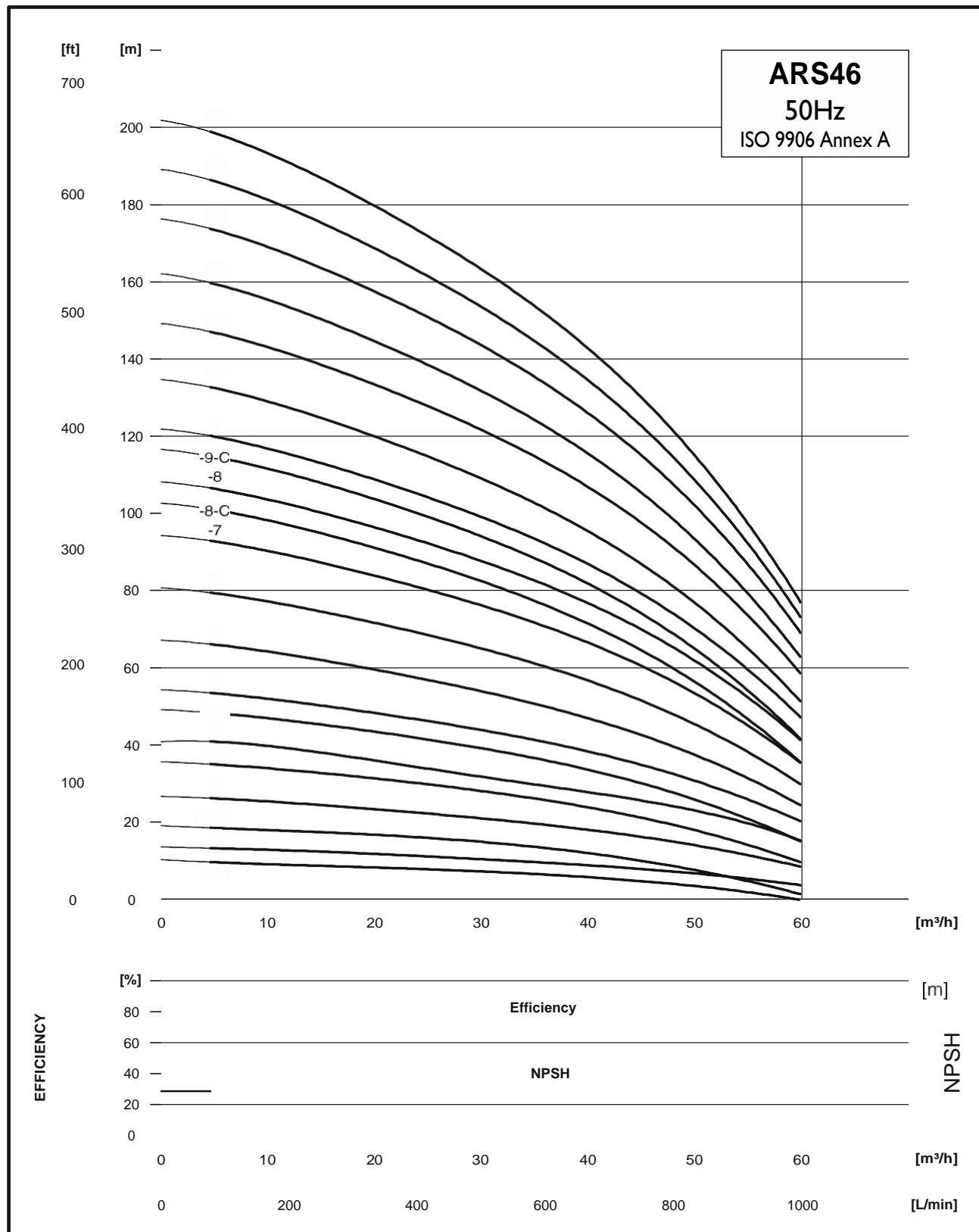
ARS30 - Power



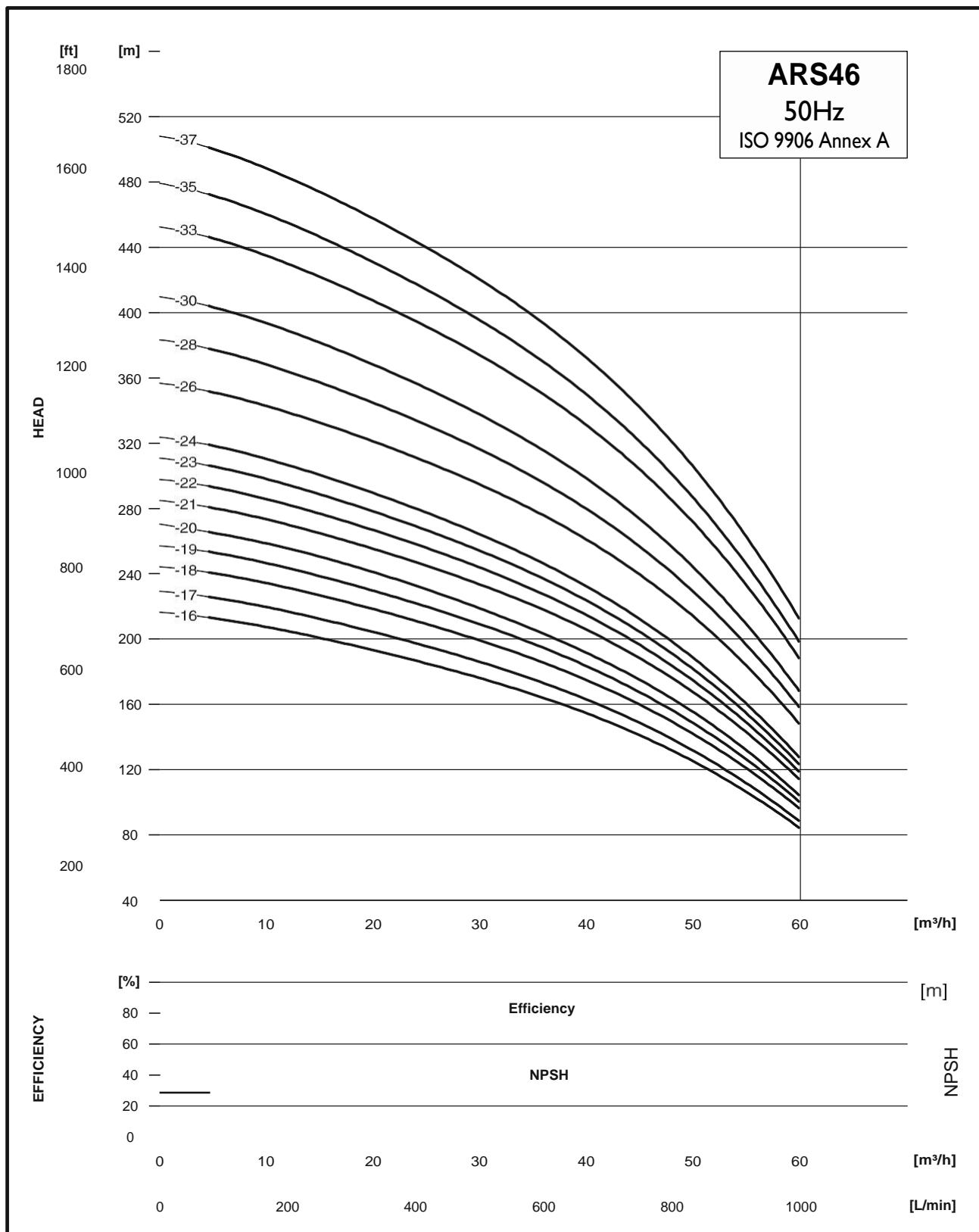
ARS30 - Power

35

ARS46 - Performance

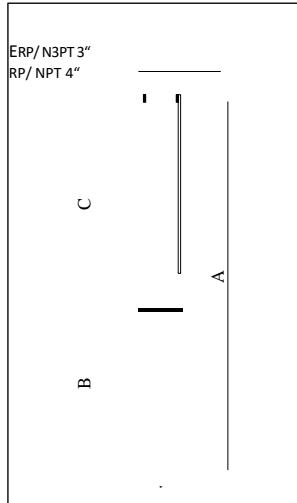


ARS46 - Performance



ARS46 - Technical

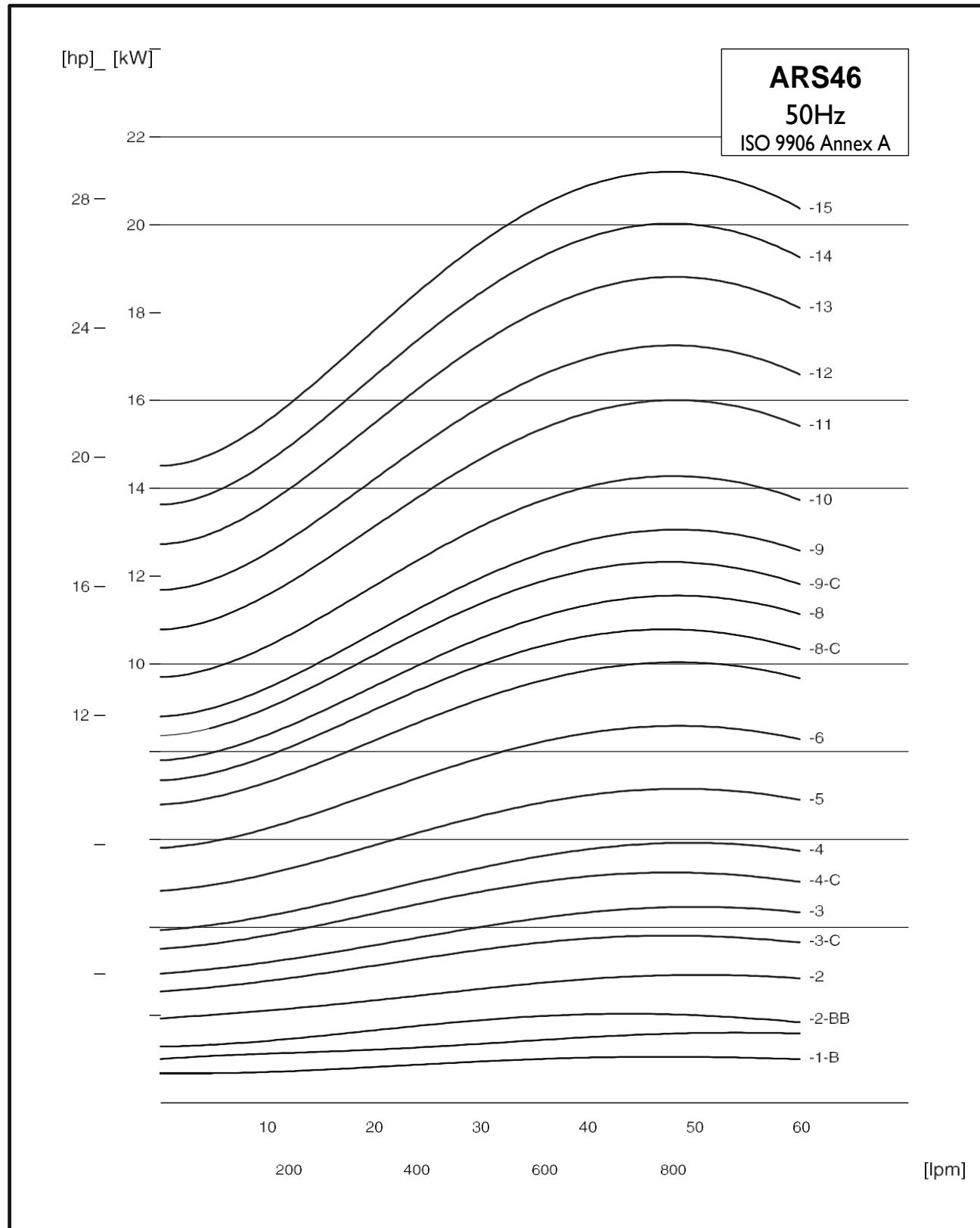
Dimensions and Weight



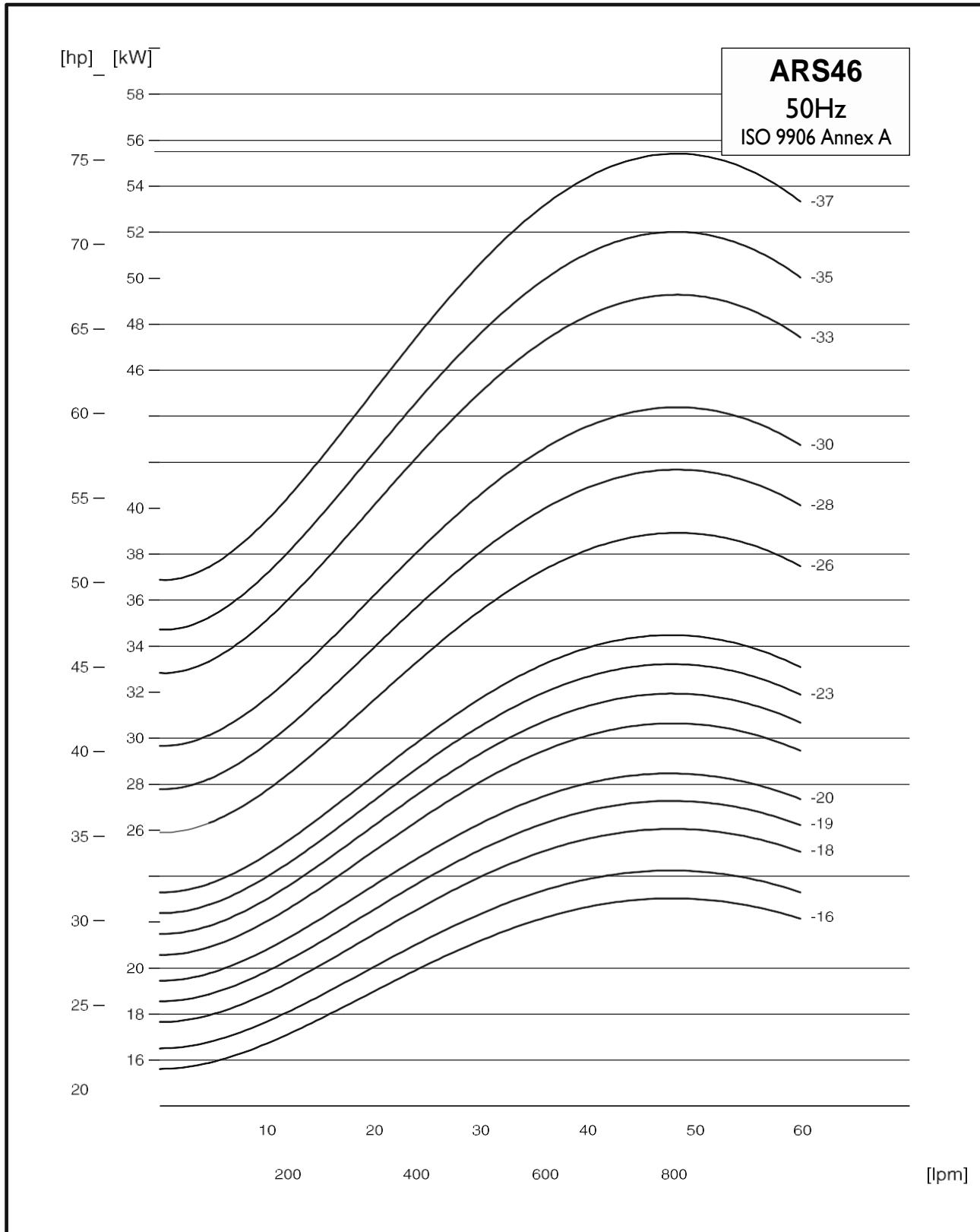
PUMP TYPE	MOTOR		DIMENSIONS (mm)							NET WEIGHT (kg)	
			C	B		A		D	E*	E**	1x230V
	TYPE AFM.... (inch/HP)	POWER (kW/HP)		1x230V 3x400V	3x230V 3x400V	1x230V 3x400V	1x230V 3x400V				3x230V 3x400V
ARS46-1-B	AFM4/1.5	1.1 / 1.5	367	512	477	879	844	96	146		23.5
ARS46-1	AFM4/3	2.2 / 3	367	657	637	1024	1004	96	146		34
ARS46-2-BB	AFM4/3	2.2 / 3	480	657	637	1137	1117	96	146		36
ARS46-2	AFM4/4	3 / 4	496		677		1173	96	146		35.2
ARS46-3-C	AFM4/5.5	4 / 5.5	609		737		1346	96	146		40.5
ARS46-3	AFM4/7.5	5.5 / 7.5	609		877		1486	96	146		47.8
ARS46-4-C	AFM4/7.5	5.5 / 7.5	722		877		1599	96	146		50
ARS46-4	AFM4/10	7.5 / 10	706		1017		1723	96	-		61.3
ARS46-4	AFM6/10	7.5 / 10	722		706		1428	144	-		63.8
ARS46-5	AFM6/10	7.5 / 10	835		706		1541	144	149	152	66
ARS46-6	AFM6/12.5	9.2 / 12.5	948		736		1684	144	149	152	70.1
ARS46-7	AFM6/15	11 / 15	1061		776		1837	144	149	152	80.2
ARS46-8-C	AFM6/15	11 / 15	1174		776		1950	144	149	152	82.5
ARS46-8	AFM6/17.5	13 / 17.5	1174		826		2000	144	149	152	88
ARS46-9-C	AFM6/17.5	13 / 17.5	1287		826		2113	144	149	152	90.4
ARS46-10	AFM6/20	15 / 20	1400		866		2266	144	149	152	96
ARS46-11	AFM6/25	18.5 / 25	1513		921		2434	144	149	152	104.1
ARS46-12	AFM6/25	18.5 / 25	1626		921		2547	144	149	152	106.4
ARS46-13	AFM6/30	22 / 30	1739		996		2735	144	149	152	118.4
ARS46-14	AFM6/30	22 / 30	1852		996		2848	144	149	152	120.6
ARS46-15	AFM6/30	22 / 30	1965		996		2961	144	149	152	123
ARS46-16	AFM6/35	26 / 35	2078		1056		3134	144	149	152	133.9
ARS46-17	AFM6/35	26 / 35	2191		1056		3247	144	149	152	136.4
ARS46-18	AFM6/40	30 / 40	2304		1176		3480	144	149	152	145.4
ARS46-19	AFM6/40	30 / 40	2417		1176		3593	144	149	152	147.9
ARS46-20	AFM6/40	30 / 40	2530		1176		3706	144	149	152	149.9
ARS46-21	AFM8/50	37 / 50	2643		1010		3653	190	149	152	188.2
ARS46-22	AFM8/50	37 / 50	2756		1010		3766	190	149	152	190.8
ARS46-23	AFM8/50	37 / 50	2869		1010		3879	190	149	152	192.7
ARS46-24	AFM8/50	37 / 50	2982		1010		3992	190	149	152	195.3
• ARS46-26	AFM8/60	45 / 60	3570		1062		4632	190	-	-	-
• ARS46-28	AFM8/60	45 / 60	3810		1062		4872	190	-	-	-
• ARS46-30	AFM8/60	45 / 60	4050		1062		5112	190	-	-	-
• ARS46-33	AFM8/75	55 / 75	4410		1168		5578	190	-	-	-
• ARS46-35	AFM8/75	55 / 75	4650		1168		5818	190	-	-	-
• ARS46-37	AFM8/90	67 / 90	4890		1262		6152	192	-	-	-

- Pump mounted in Sleeve
- * Maximum diameter of pump with one motor cable
- ** Maximum diameter of pump with two motor cables
- On Request

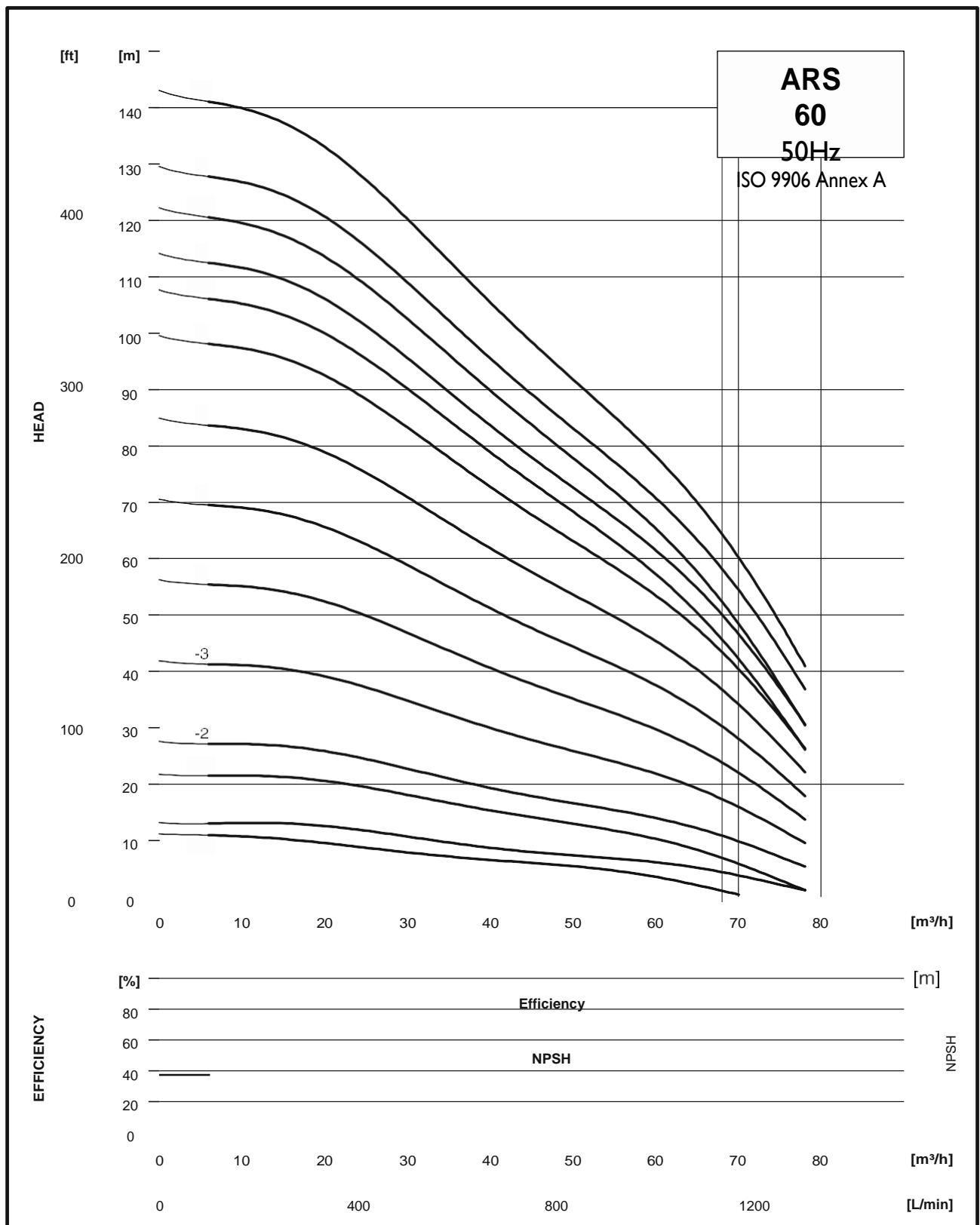
ARS46 - Power



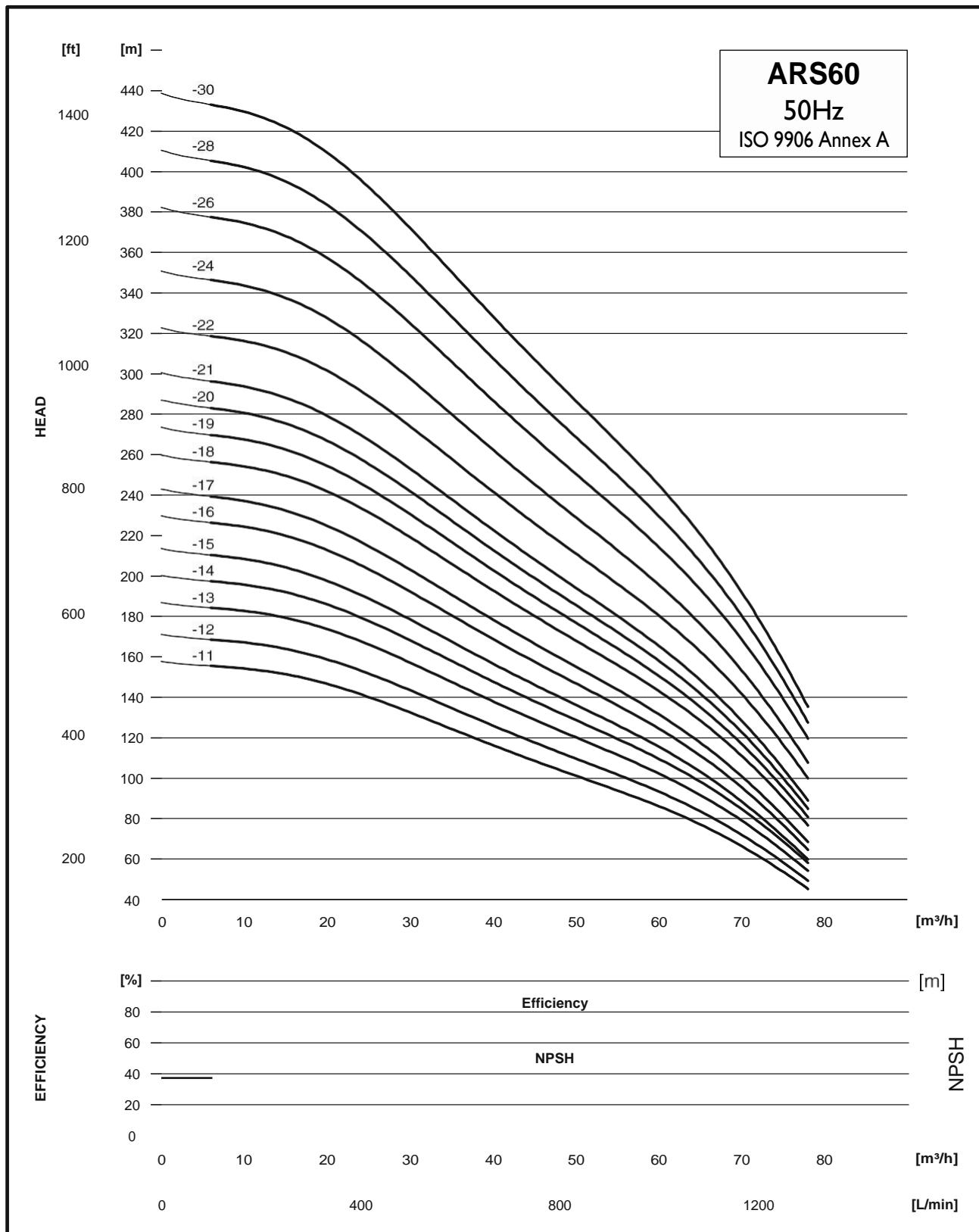
ARS46 - Power



ARS60 - Performance



ARS60 - Performance

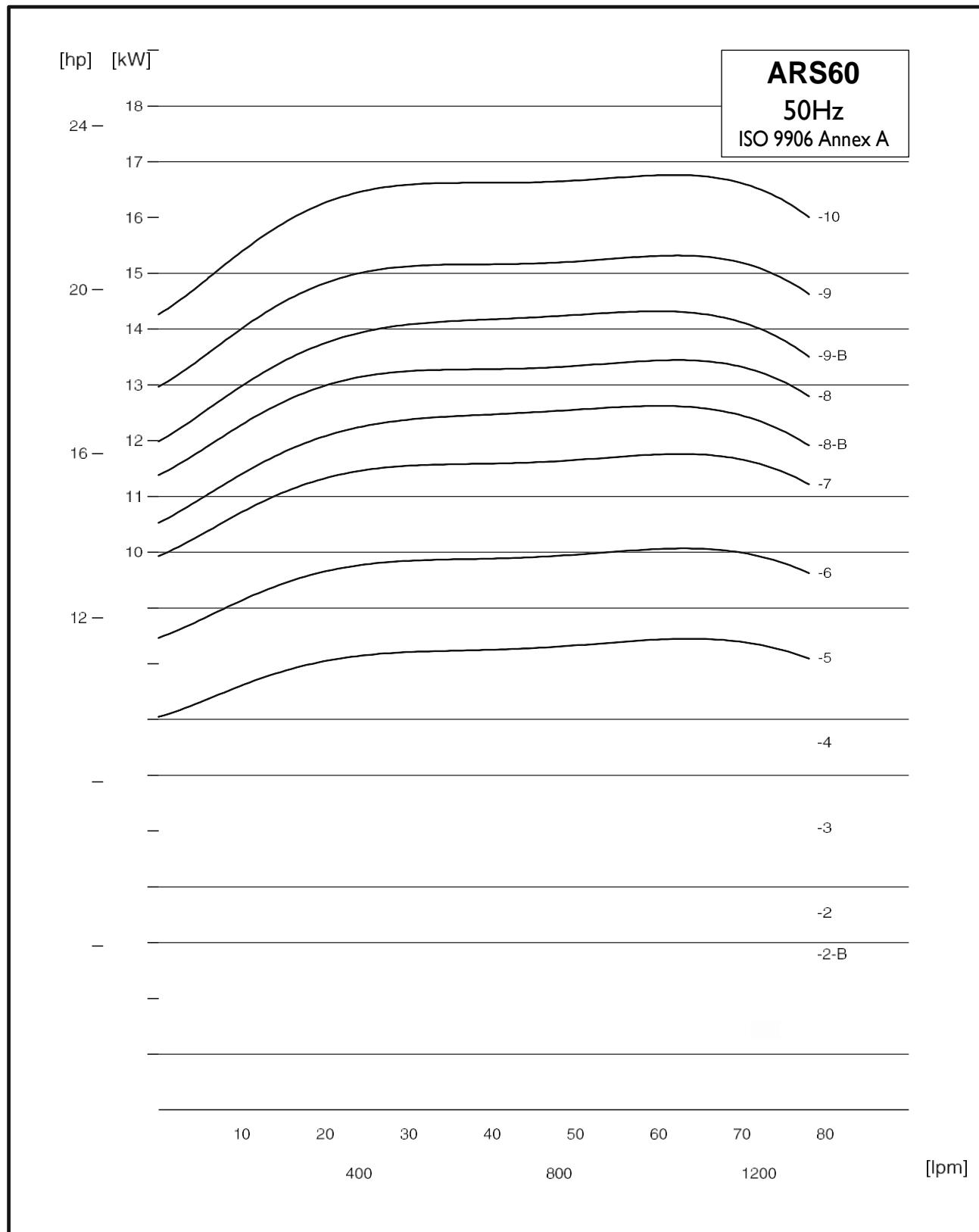


ARS60 - Technical Data

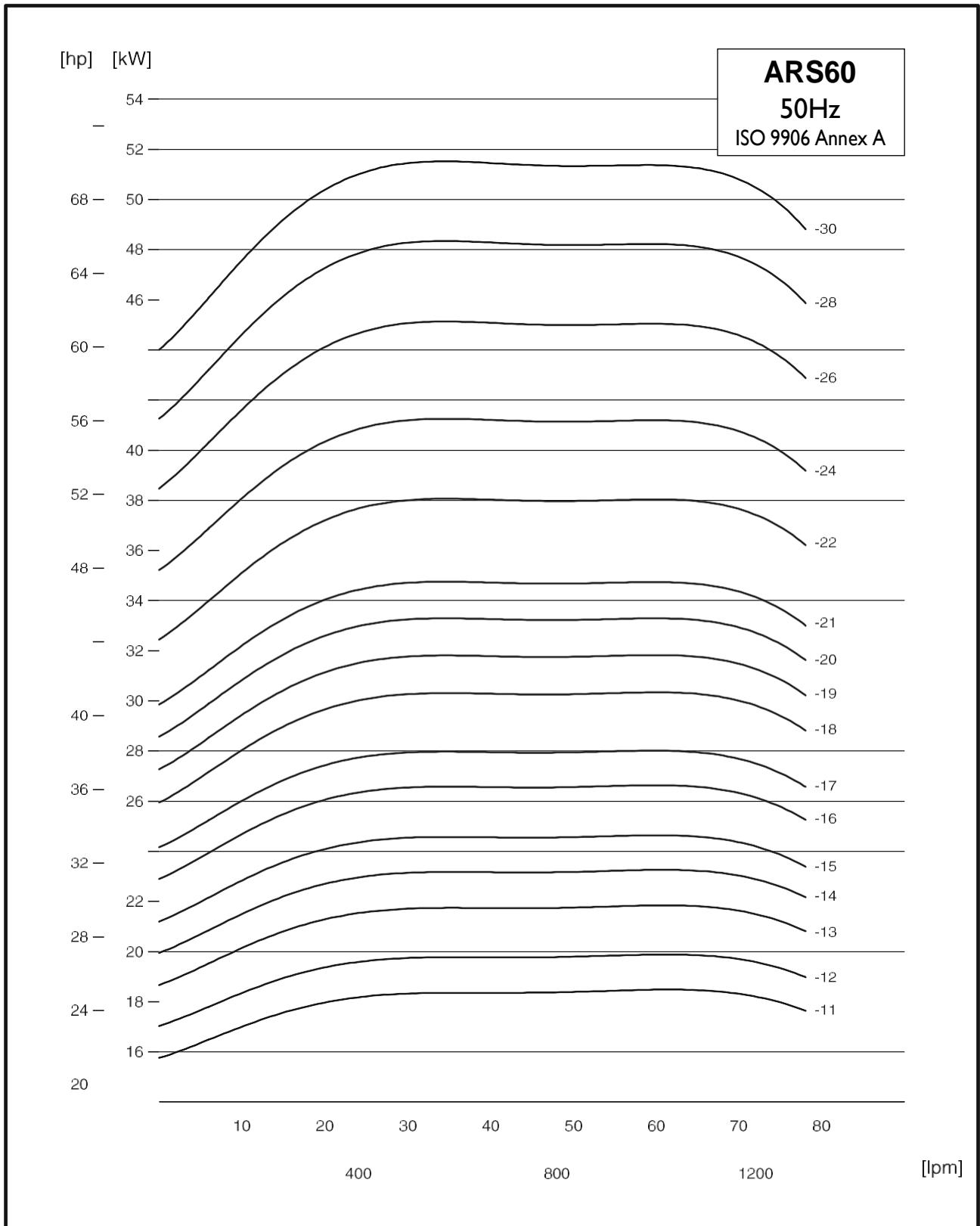
Dimensions and Weight

ERP/NPT 3"	RP/ NPT 4"	MOTOR												
PUMP TYPE	TYPE AFM.... (inch/HP)	POWER (KW/HP)			DIMENSIONS (mm)					NET WEIGHT (kg)				
ARS60-14	AFM6/25	18.5 / 25	1287		921			2208	144	149	152		99.5	
ARS60-10	AFM6/25	18.5 / 25	1400		921			2321	144	149	152		101.8	
ARS60-11	AFM6/30	22 / 30	1513		996			2509	144	149	152		114	
ARS60-12	AFM6/30	22 / 30	1626		996			2622	144	149	152		116.2	
ARS60-13	AFM6/35	26 / 35	1739		1056			2795	144	149	152		127.3	
ARS60-15	AFM6/35	26 / 35	1965		1056			3021	144	149	152		129.5	
ARS60-16	E AFM6/40	A 30 / 40	2078		1176			3154	144	149	152		141	
ARS60-17	B AFM6/40	382/30V	2191*	E**	1176			3234V	3367	144	149	152	143.4	
ARS60-18	B AFM6/50	38400V	2804		1010			3344	190	149	152		181.7	
ARS60-1-A	AFM4/2	1.5 / 2	30860-159	AFM8/50946	396650	96 24196		23010	29	3427	190	149	152	184
ARS60-1-C	AFM4/3	2.2 / 3	30860-257	AFM8/501040	392050	96 25306		1010	31	3540	190	149	152	186.2
ARS60-2-B	AFM4/4	3 / 4	40060-21	AFM8/50	335750	96 26446		1010	34	3653	190	-	-	188.5
ARS60-2	AFM4/5.5	4 / 5.5	40060-22	AFM8/50	223360	96 27846		1052	37	3846	190	-	-	-
ARS60-3	AFM4/7.5 A	5.5 / 7.5	40060-24	AFM8/50	247060	96 30106		1052	47.8	4072	190	-	-	-
ARS60-4	AFM4/10	7.5 / 10	40060-26	AFM8/75	58975	96 32382	-	1158	54.7	4404	190	-	-	-
ARS60-3	AFM6/7.5	5.5 / 7.5	60060-28	AFM8/75	138575	1443462		1158	59.5	4630	190	-	-	-
ARS60-4	AFM6/10	7.5 / 10	70060-30	AFM8/75	140875	1443688	-	1158	63.7	4856	190	-	-	-
ARS60-5_B	AFM6/12.5	9.2 / 12.5	835		736	1571	144 149 152		67.8					
ARS60-6	AFM6/15	11 / 15								78				
ARS60-7	AFM6/17.5	13 / 17.5								85.8				
ARS60-8-B	AFM6/17.5	13 / 17.5		On Request	826		2000	144	149	152		88		
ARS60-8	AFM6/20	15 / 20	1174		866		2040	144	149	152		91.5		
ARS60-9-B	AFM6/20	15 / 20	1287		866		2153	144	149	152		93.7		

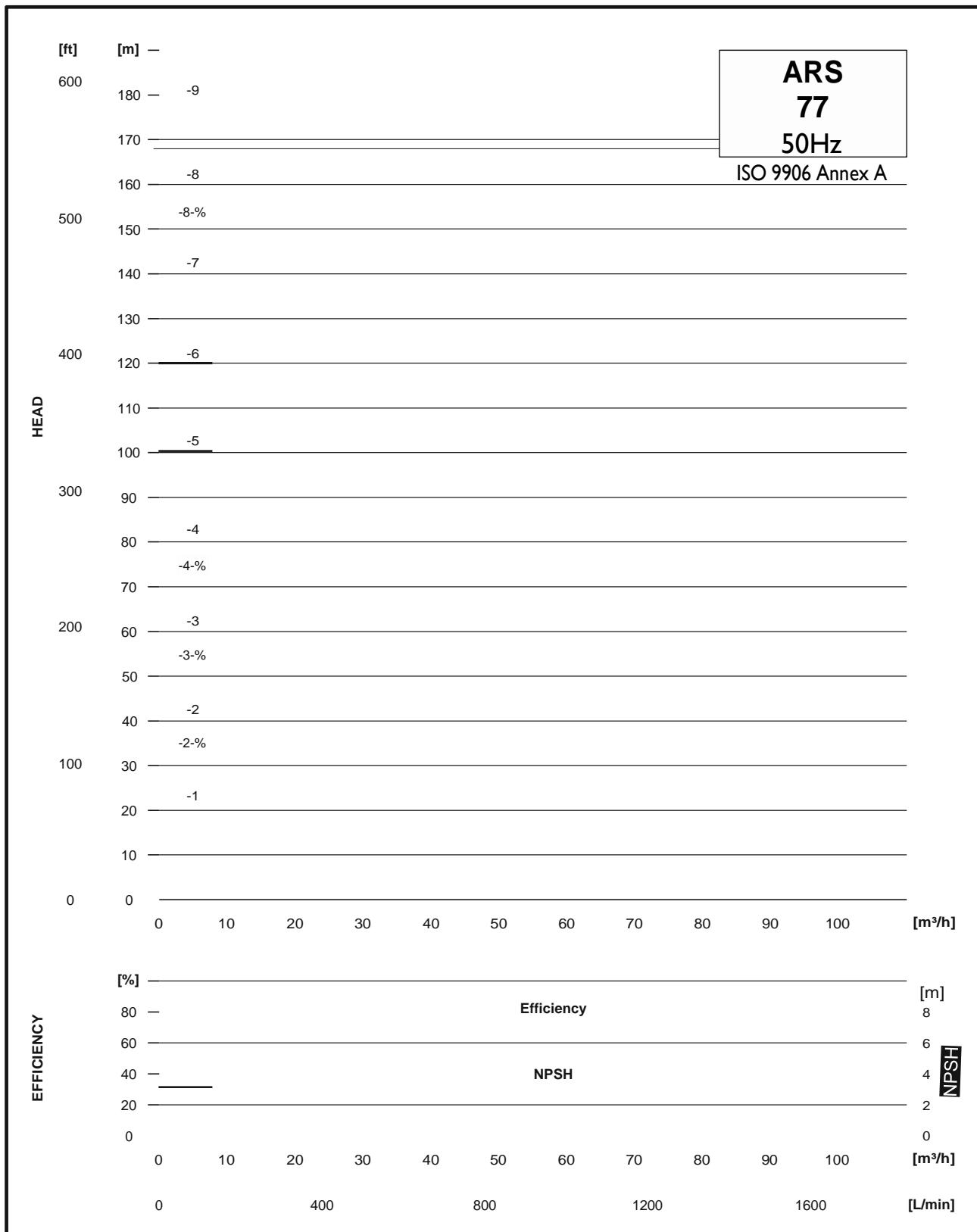
ARS60 - Power



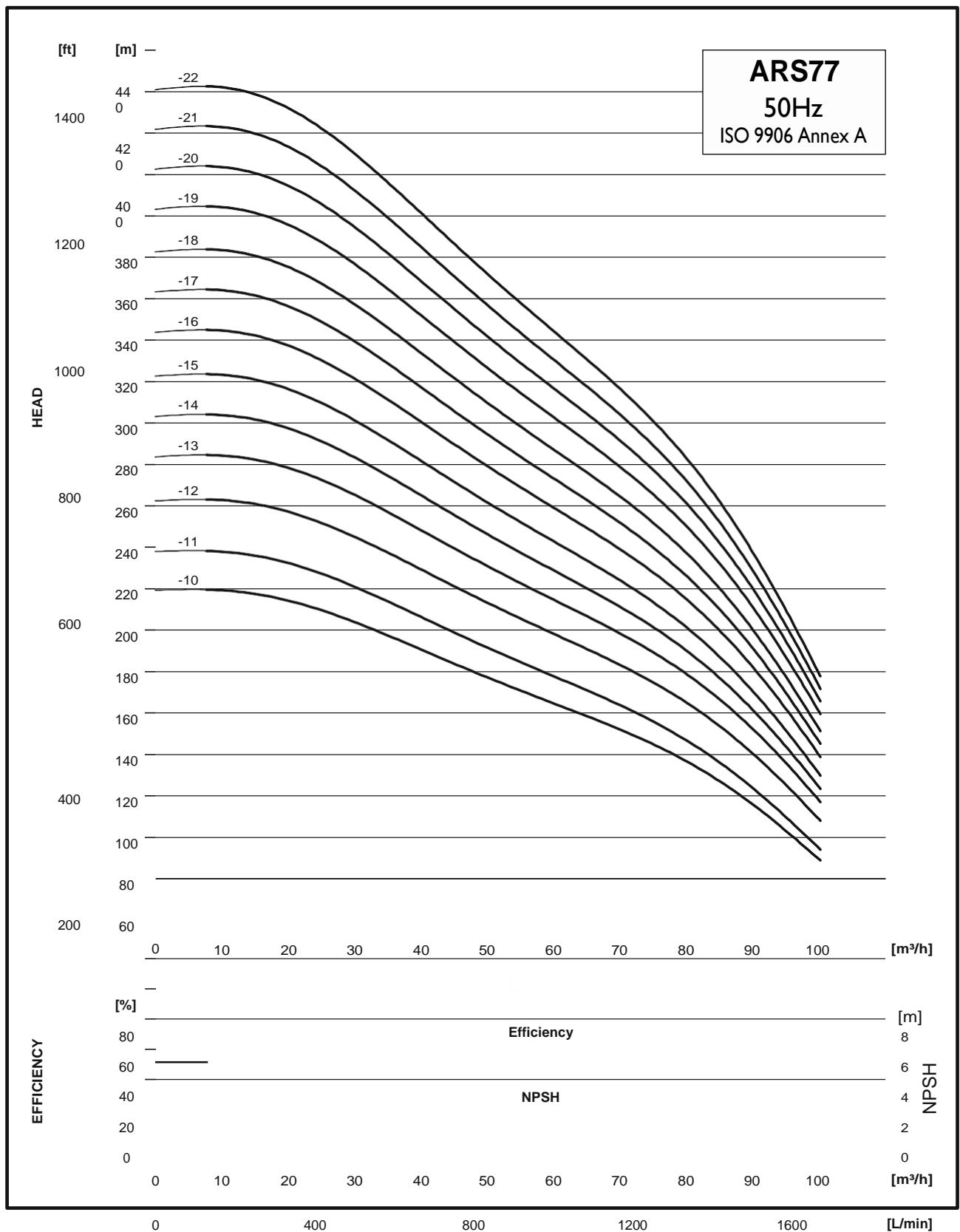
ARS60 - Power



ARS77 - Performance



ARS77 - Performance



ARS77 - Performance

47

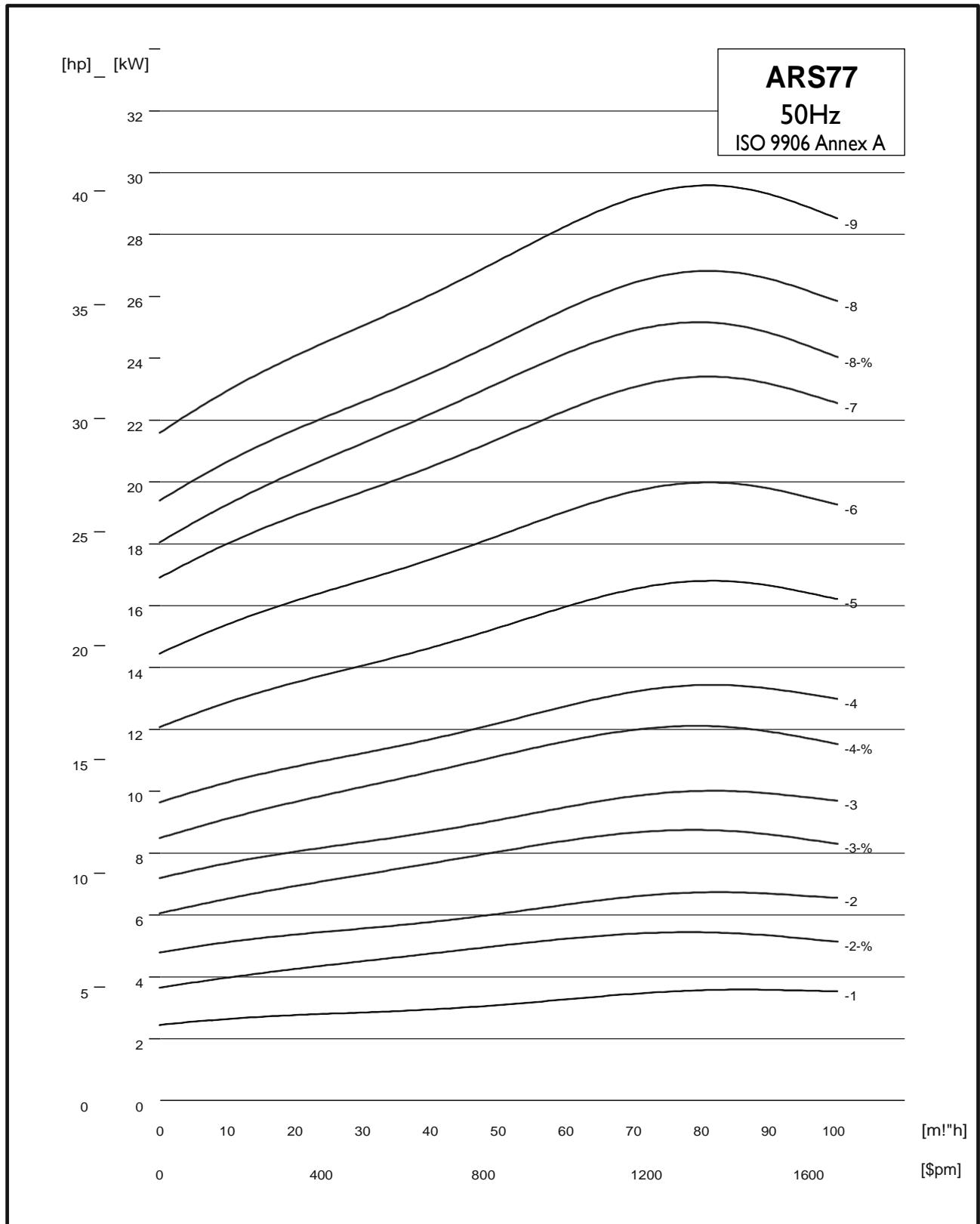
ARS77 - Technical

Dimensions and Weight

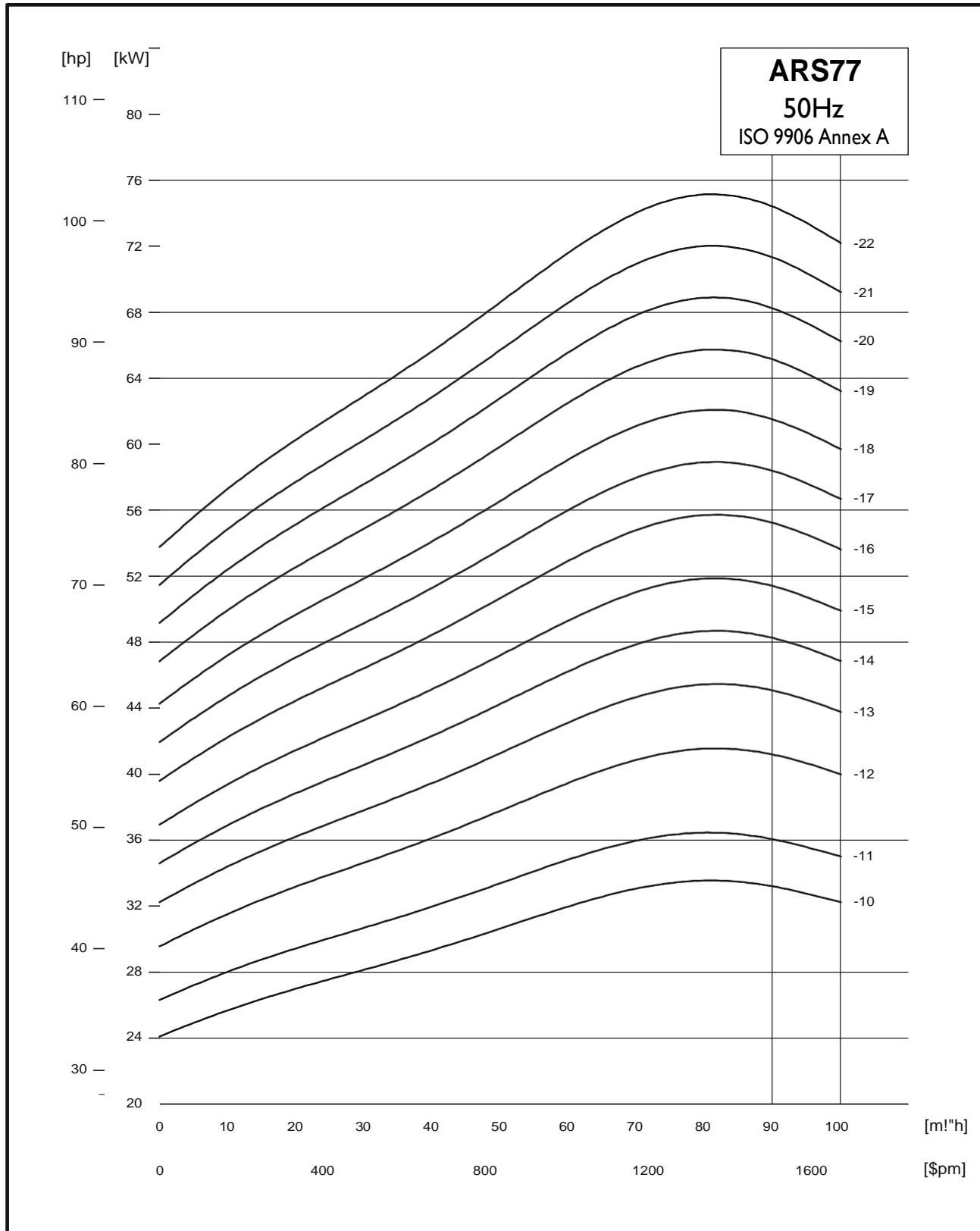
E RP/ NPT 5"		ARS77-8-B	AFM6/35	26 / 35	2571	1515	178	186	2571	1515	200	200	1056	144	143.2		
PUMP TYPE	TYPE AFM.... (inch/HP)	ARS77-8	AFM6/40	30 / 40	2691	1515	178	186	2691	1515	200	200	1176	144	150.2		
		ARS77-9	AFM6/40	30 / 40	2820	1644	178	186	2820	1644	200	200	1176	144	153.8		
ARS77-10	AFM8/50	37 / 50	2782	1772	178	186	2782	1772	200	200	1010	190	193.4				
ARS77-11	AFM8/50	37 / 50	2910	1900	178	186	2910	1900	200	200	1010	190	197				
ARS77-12	AFM8/60	DIN EN 10206	3101	2039	200	204	3101	2039	209	209	1062	190	202				
ARS77 connection		AFM8/75		55 / flange	3336	2168	200	204	3976	2168	209	209	1168	190	224.6		
ARS77-14	AFM8/75			55 / flange	3464	2296	200	204	(kg)				1168	190	228.2		
ARS77-15	AFM8/75			55 / flange	3592	2424	200	204					1168	190	231.8		
ARS77-1	AFM6/7.5	5.5 / 7.5	ARS77-1618	AFM8/80	1294	671890	200	18180	25626	2004	204	73			1262	192	242.4
ARS77-2-B	AFM6/7.5	5.5 / 7.5	ARS77-1746	AFM8/80	1422	674690	200	19480	26826	2004	204	76.7			1262	192	246
ARS77-2C	AFM6/10	7.5 / 10	ARS77-1846	AFM8/80	1452	674690	200	40200	28096	2004	204	78.7			1262	192	249.6
ARS77-3-B	AFM6/12.5	9.2 / 12.5	ARS77-1874	AFM8/80	1610	7374100200	42880	29236	2004	204	84.1				1324	192	275.2
ARS77-3	AFM6/15	11 / 15	ARS77-1874	AFM8/80	1650	7374100200	43880	30586	2004	204	92				1324	192	278.8
ARS77-4-B	AFM6/17.5	13 / 17.5	ARS77-21003	AFM8/80	1829	7696100200	45200	31896	2004	204	101				1324	192	282.4
ARS77-4	AFM6/20	15 / 20	ARS77-22003	AFM8/80	1859	906135200	47980	33886	2004	204	104.5				1469	192	317
ARS77-5	AFM6/25	18.5 / 25	2052	1131	178	186	2052	1131	200	200	921	144	114				
ARS77-6	AFM6/30	22 / 30	* Maximum diameter of pump with one motor cable												144	127.2	
ARS77-7	AFM6/35	26 / 35	** Maximum diameter of pump with two motor cables												144	139.6	

B

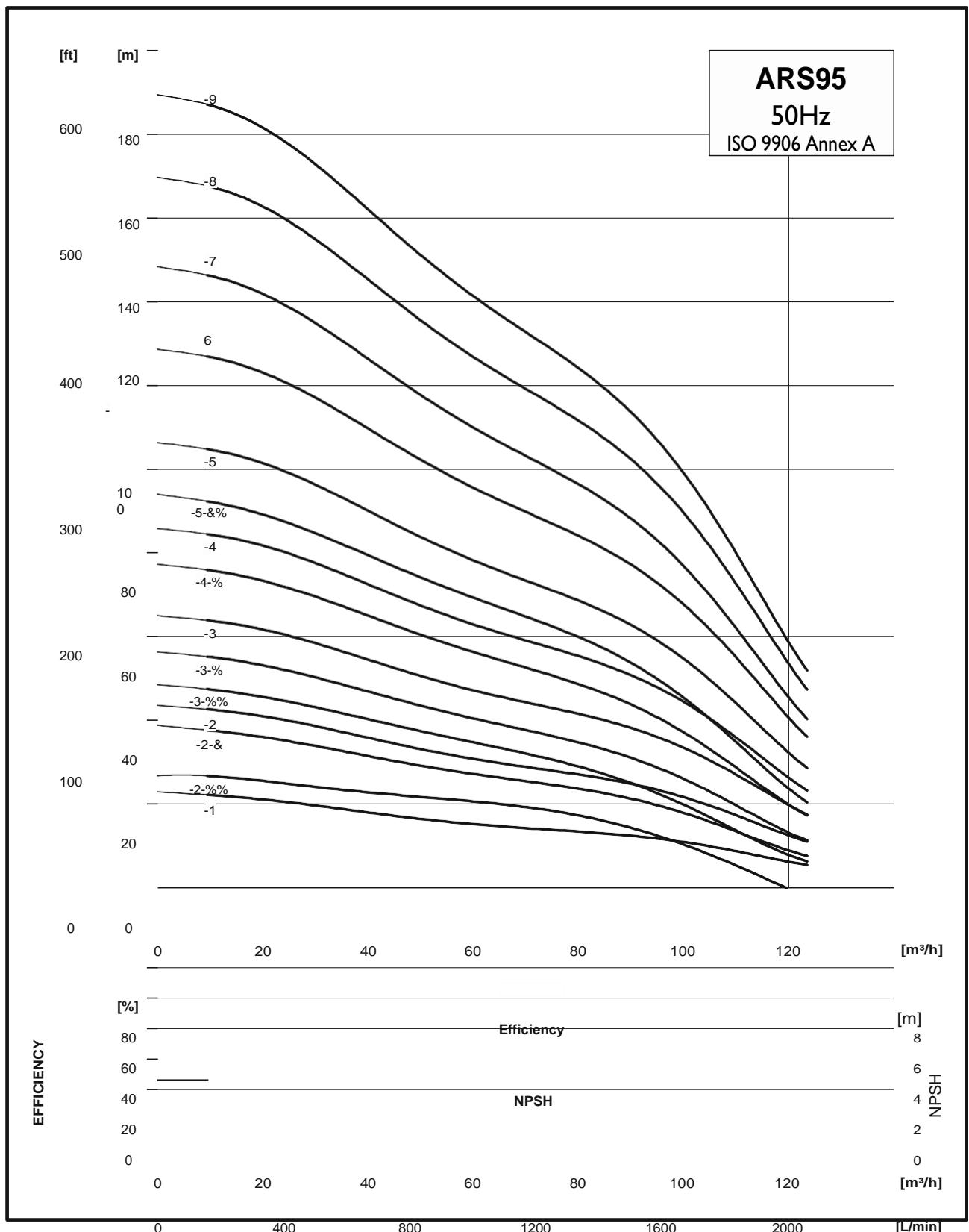
ARS77 - Power



ARS77 - Power

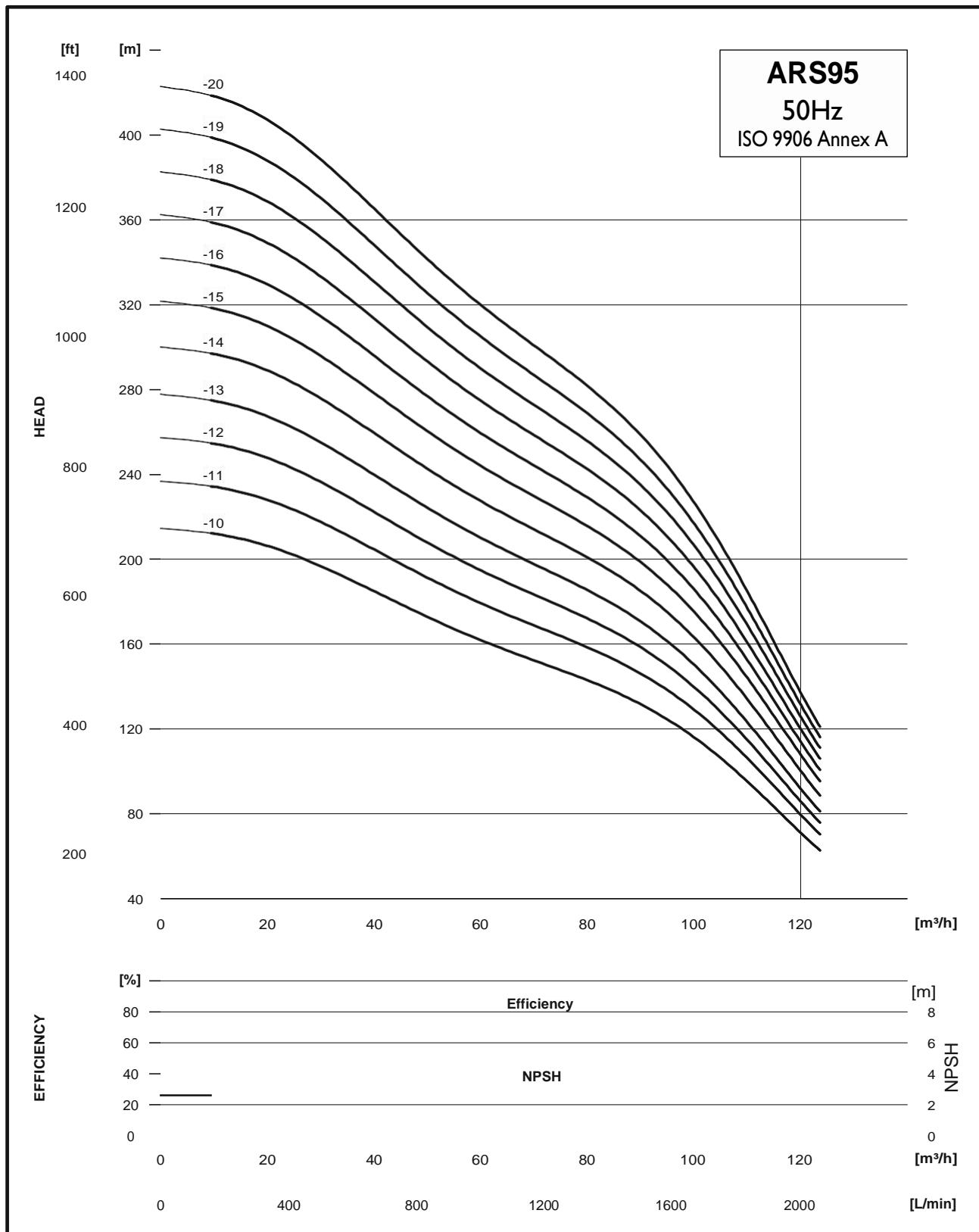


ARS95 - Performance



ARS95 - Performance

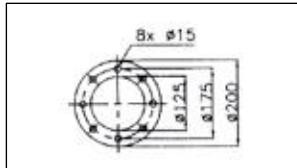
ARS95 - Performance



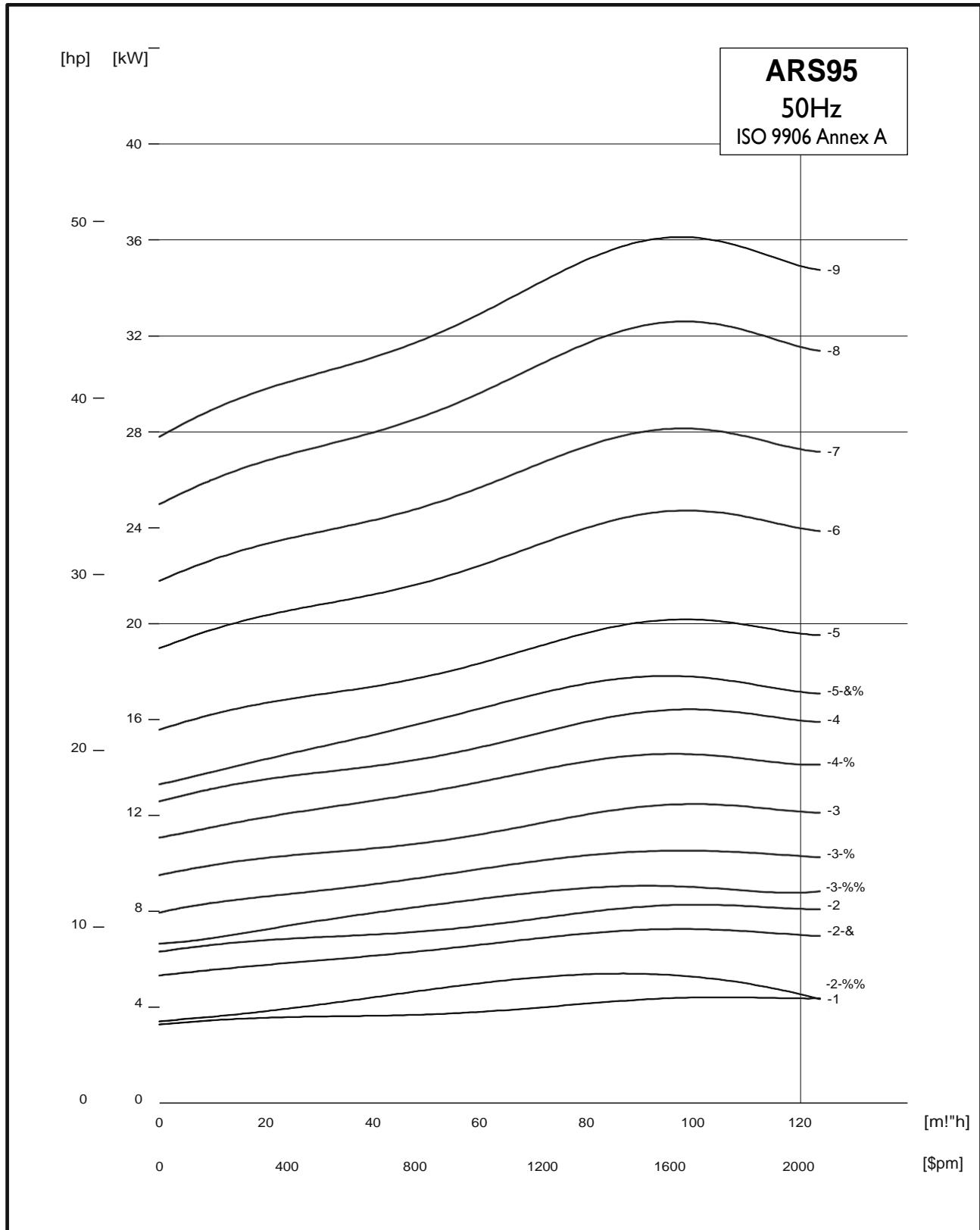
ARS95 - Technical Data

Dimensions and Weight

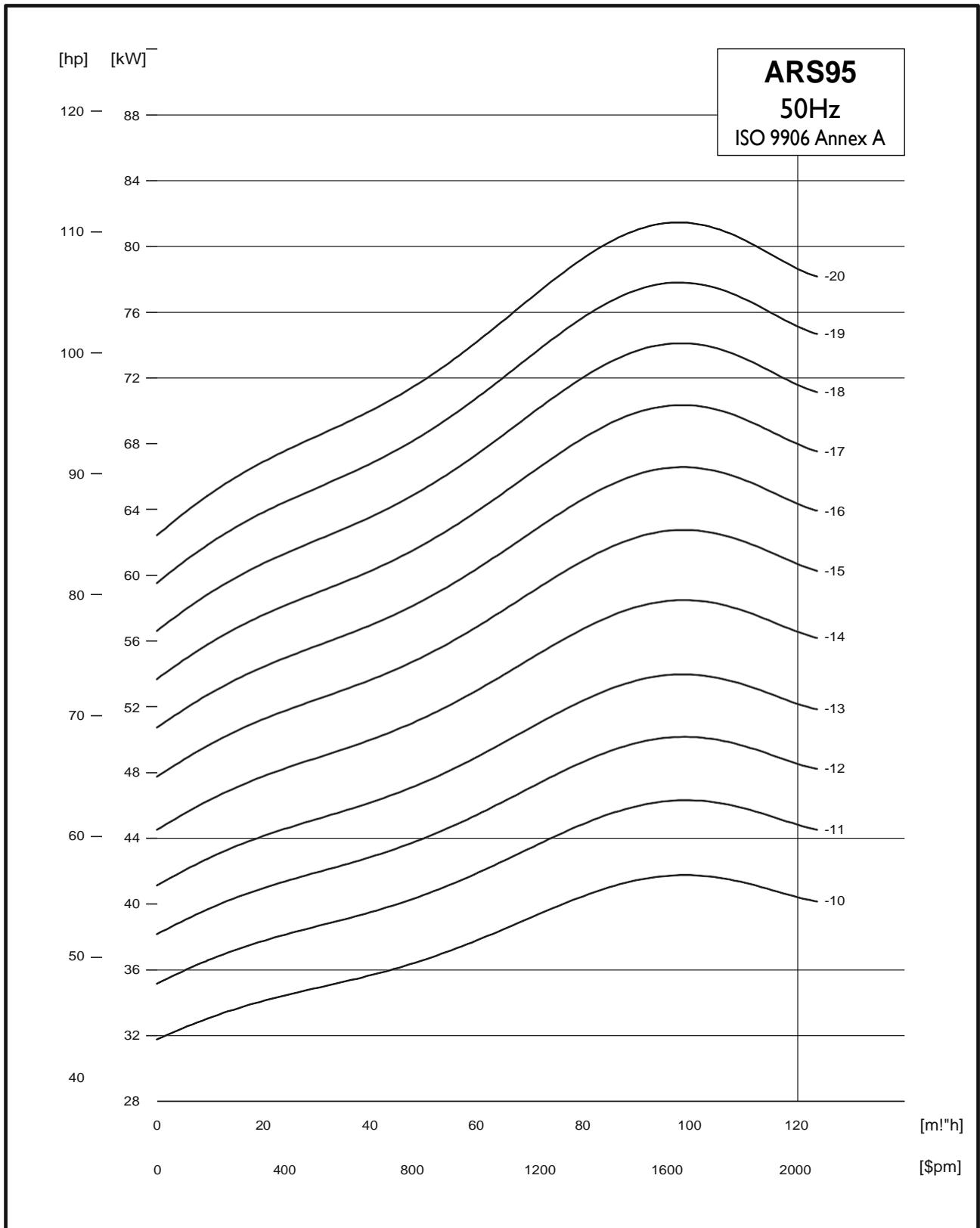
		ARS95-5	AFM6/30	22/30	2127	1131	178	186	2127	1131	200	200	996	144	123.7			
		ARS95-6	AFM6/35	26/35	2315	1259	178	186	2315	1259	200	200	1056	144	136			
		ARS95-7	AFM6/40	30/40	2573	1397	178	186	2563	1387	200	200	1176	144	146.6			
		ARS95-8	AFM8/50	37/50	2535	1525	178	186	2525	1515	200	200	1010	190	186.2			
		ARS95-9	AFM8/60	45/60	2706	1644	178	186	2706	1644	200	200	1062	190	196.8			
E RP/ NPT 5"	MOTOR PUMP TYPE	ARS95-10	AFM8/60	DIMENS N°	2845	1783	196	204	2845	1783	205	205	1062	190	201.8			
	TYPE AFM.... (inch/HP)	ARS95-connection	AFM8/75	55/75 range	3079	1911	196	204	3079	1911	205	205	1168	190	217.4			
		ARS95-12_C	AFM8/75	A 55/75	3207*	2039	196	204	3207	2039	205	205	1168	190	221			
		ARS95-13	AFM8/75	55/75	3336	2168	196	204	3336	2168	205	205	1168	190	224.6			
ARS95-1	AFM6/7.5	5.5/7.5	ARS95-1618	AFM8/80	1294	6780	200	35380	2566	1964	204	3538	2296	205	1262	192	235.2	
ARS95-2-BB	AFM6/7.5	5.5/7.5	ARS95-1546	AFM8/80	1422	739100	200	37480	2626	1964	204	76.7				1324	192	260.7
ARS96-2-A	AFM6/10	7.5/10	ARS95-1646	AFM8/80	1452	739100	200	38390	25596	1964	204	78.7				1324	192	264.4
ARS95-2	AFM6/12.5	9.2/12.5	ARS95-1746	AFM8/80	1482	739100	200	40040	26806	1964	204	80.2				1324	192	268
ARS95-3-BB	AFM6/12.5	9.2/12.5	ARS95-1874	AFM8/85	1610	997425	200	42780	28096	1964	204	84				1469	192	302.6
ARS95-3-B	AFM6/15	11 / 15	ARS95-1974	AFM8/85	1650	997425	200	44080	29396	1964	204	92				1469	192	306.2
ARS95-3	AFM6/17.5	13/17.5	ARS95-2074	AFM8/95	1700	997425	200	45380	30696	1964	204	97.5				1469	192	309.8
ARS95-4-B	AFM6/20	15/20	1869	1003	178	186	1869	1003	200	200	866	144	104.5					
ARS95-4	AFM6/25	18.5/25	*	Maximum diameter of pump with one motor cable												144	110.3	
ARS95-5-AB	AFM6/30	22/30	**	Maximum diameter of pump with two motor cables												144	123.7	



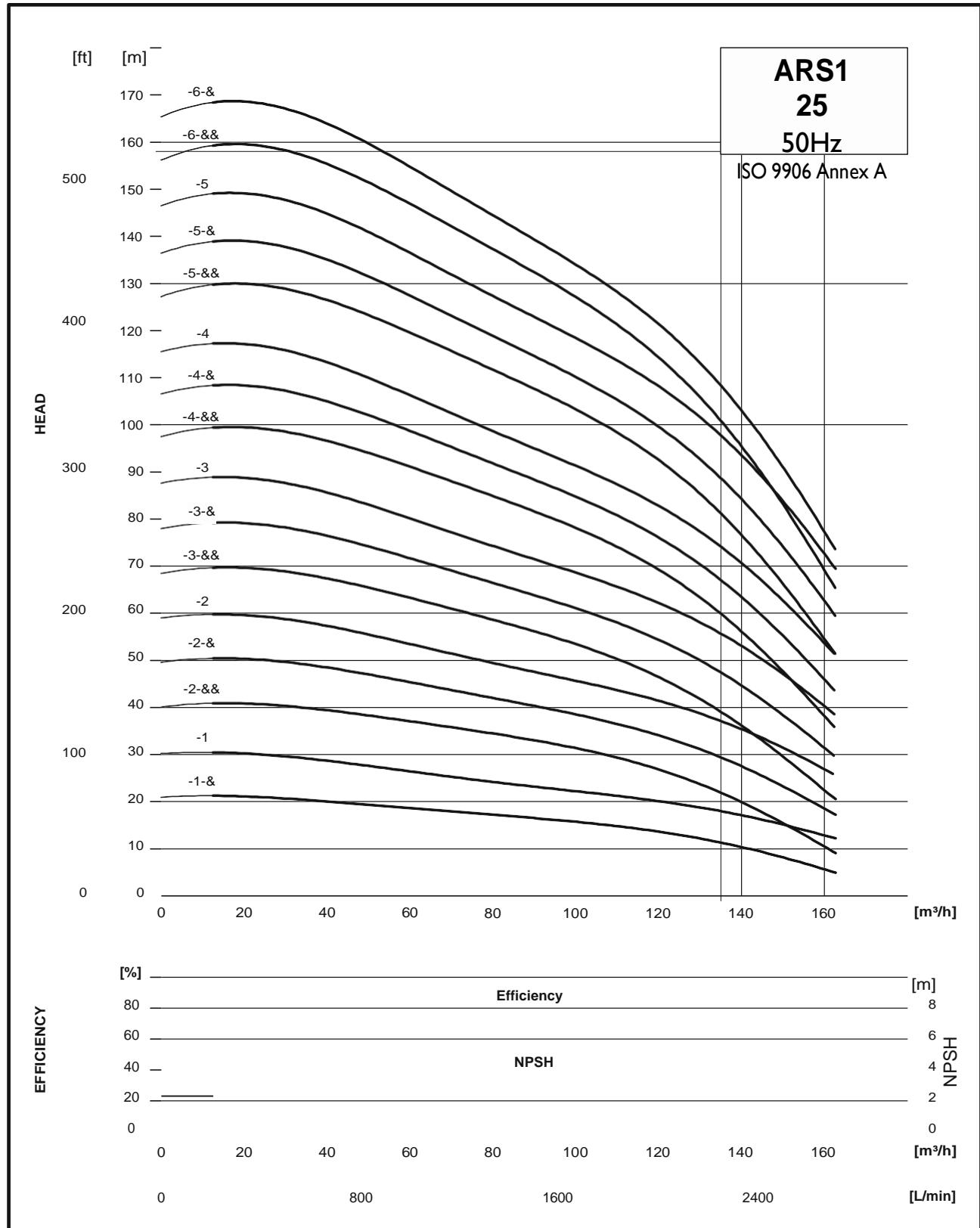
ARS95 - Power



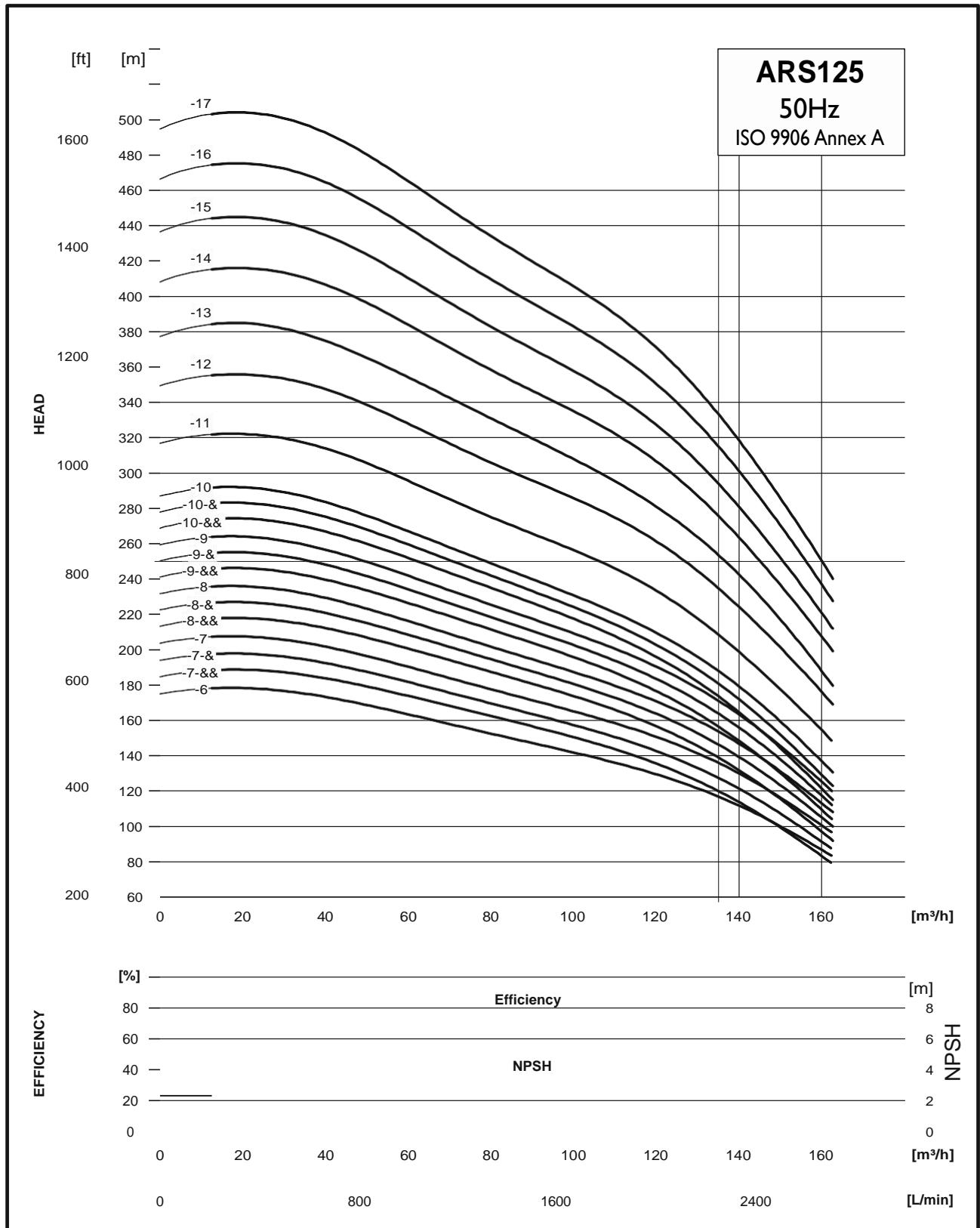
ARS95 - Power



ARS125 - Performance



ARS125 - Performance



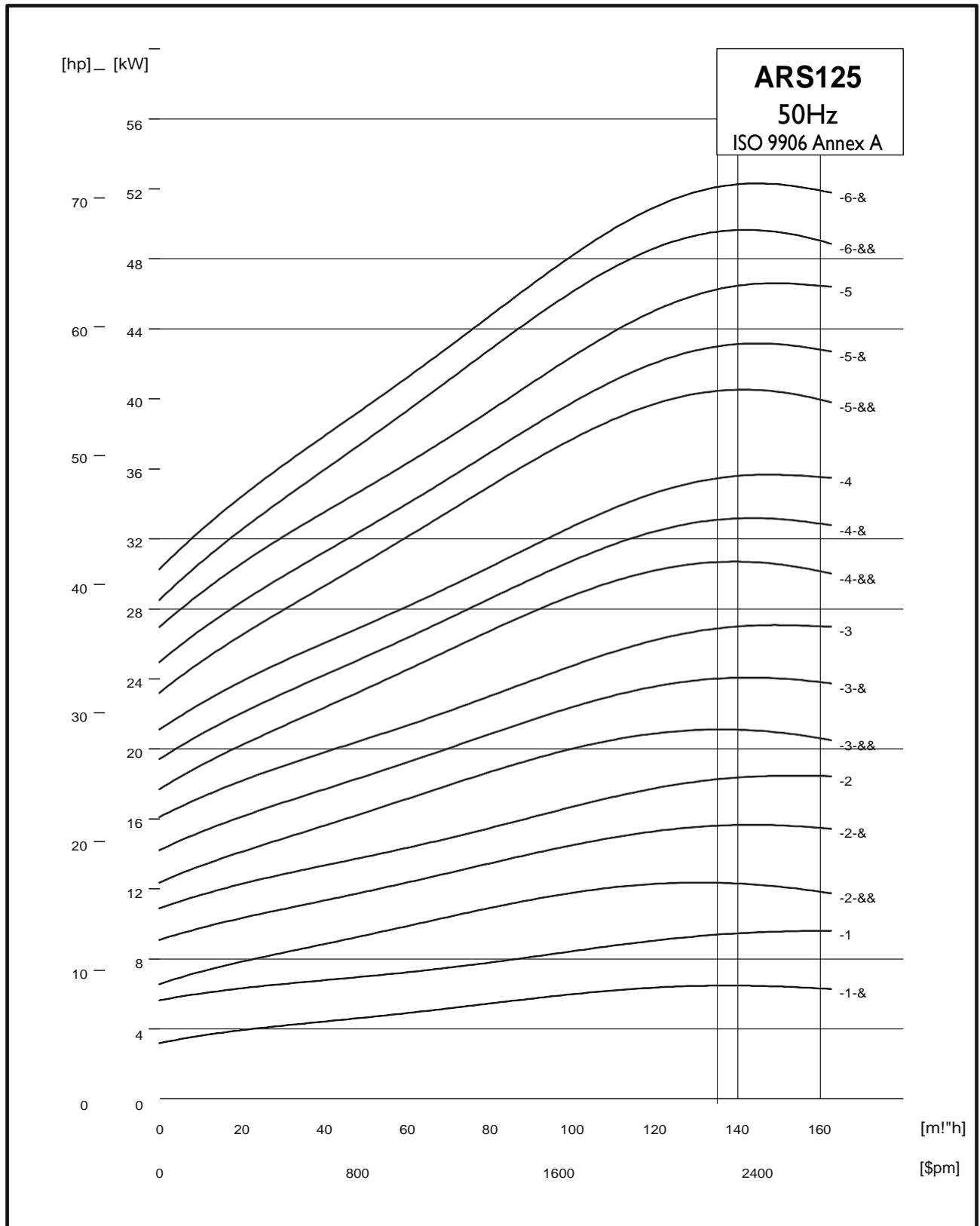
ARS125 - Technical

Dimensions and Weight

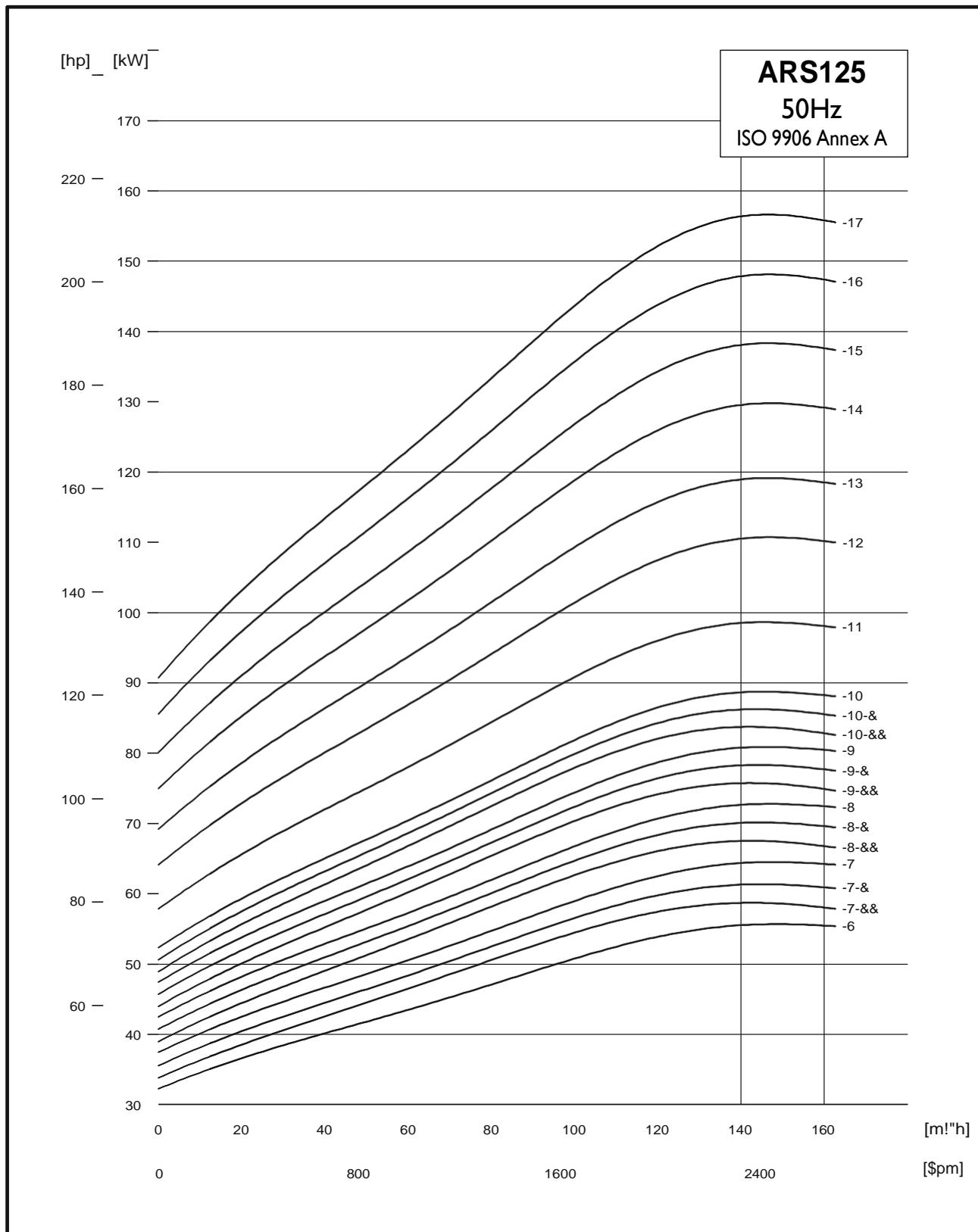
E
RP/NPT

		ARS125-6-A	AFM8/75	55/75	2597	1429	213	218	2597	1429	223	226	1168	190	254			
		ARS125-6	AFM8/90	67/90	2691	1429	218	227	2691	1429	229	232	1262	192	273			
		ARS125-7-AA	AFM8/90	67/90	2847	1585	218	227	2847	1585	229	232	1262	192	283			
		ARS125-7-A	AFM8/90	67/90	2847	1585	218	227	2847	1585	229	232	1262	192	283			
		ARS125-7	AFM8/100	75/100	2909	1585	218	227	2909	1585	229	232	1324	192	300			
		ARS125-8-AA	AFM8/100	75/100	3034	1710	218	227					1324	192	311			
		ARS125-8-A	AFM8/100	75/100	3034	1710	218	227					1324	192	311			
	MOTOR	ARS125-8	AFM8/100	DIMEN S ^W N60	3034	1710	218	227					1324	192	311			
PUMP TYPE	TYPE AFM.... (inch/HP)	POWER (KW/HP)	ARS125-9-A [*]	AFM8/125	98/125	3365	1896	218	227	WEIGHT (kg)				1469	192	353		
			ARS125-9-C	AFM8/125	92/125	3365	1896	218	227					1469	192	353		
			ARS125-9	AFM8/125	92/125	3365	1896	218	227					1469	192	353		
ARS125-1-A	AFM6/10	7.5/10	ARS125-16AA	AFM8/185	1226	997/125	222	35226	20541	2183	227	61			1469	192	363	
ARS125-1	AFM6/15	11/15	ARS125-16B2	AFM8/185	1237	997/125	222	35226	20835	2183	227	70			1469	192	363	
ARS125-2-AA	AFM6/17.5	13/17.5	ARS125-1807	AFM8/185	1471	987/125	222	35226	20944	2183	227	83			1469	192	363	
ARS125-2-A	AFM6/25	18.5/25	ARS125-1807	AFM8/180	1561	1807/125	222	37226	22054	2183	227	92			1567	192	511	
ARS125-2	AFM6/30	22/30	ARS125-1807	AFM8/180	1619	1807/125	222	41226	24902	2183	247	98			1675	230	571	
ARS125-3-AA	AFM6/30	22/30	ARS125-1963	AFM8/180	1775	14963	0222	42226	26182	2183	247	108			1675	230	582	
ARS125-3-A	AFM6/35	26/35	ARS125-1963	AFM8/180	1837	14963	0222	42226	26074	2183	247	114			1675	230	722	
ARS125-4	AFM6/40	30/40	ARS125-1963	AFM8/180	1907	14963	0222	46226	26944	2183	247	122			1675	230	732	
ARS125-4-AA	AFM8/50	37/50	ARS125-1918	AFM8/185	2128	1857/125	0223	48226	31040	2190	247	195			1784	230	782	
ARS125-4-A	AFM8/50	37/50	ARS125-1918	AFM8/185	2128	1857/125	0223	48226	31900	2190	247	195			1784	230	792	
ARS125-4	AFM8/50	37/50	2128	1118	213	218	2128	1118	223	226	1010	190	195					
ARS125-5-AA	AFM8/60	45/60	* Maximum diameter of pump with one motor cable															
ARS125-5-A	AFM8/60	45/60	** Maximum diameter of pump with two motor cables															
ARS125-5	AFM8/75	55/75	2439	1271	213	218	2439	1271	223	226	1168	190	245					
ARS125-6-AA	AFM8/75	55/75	2597	1429	213	218	2597	1429	223	226	1168	190	254					

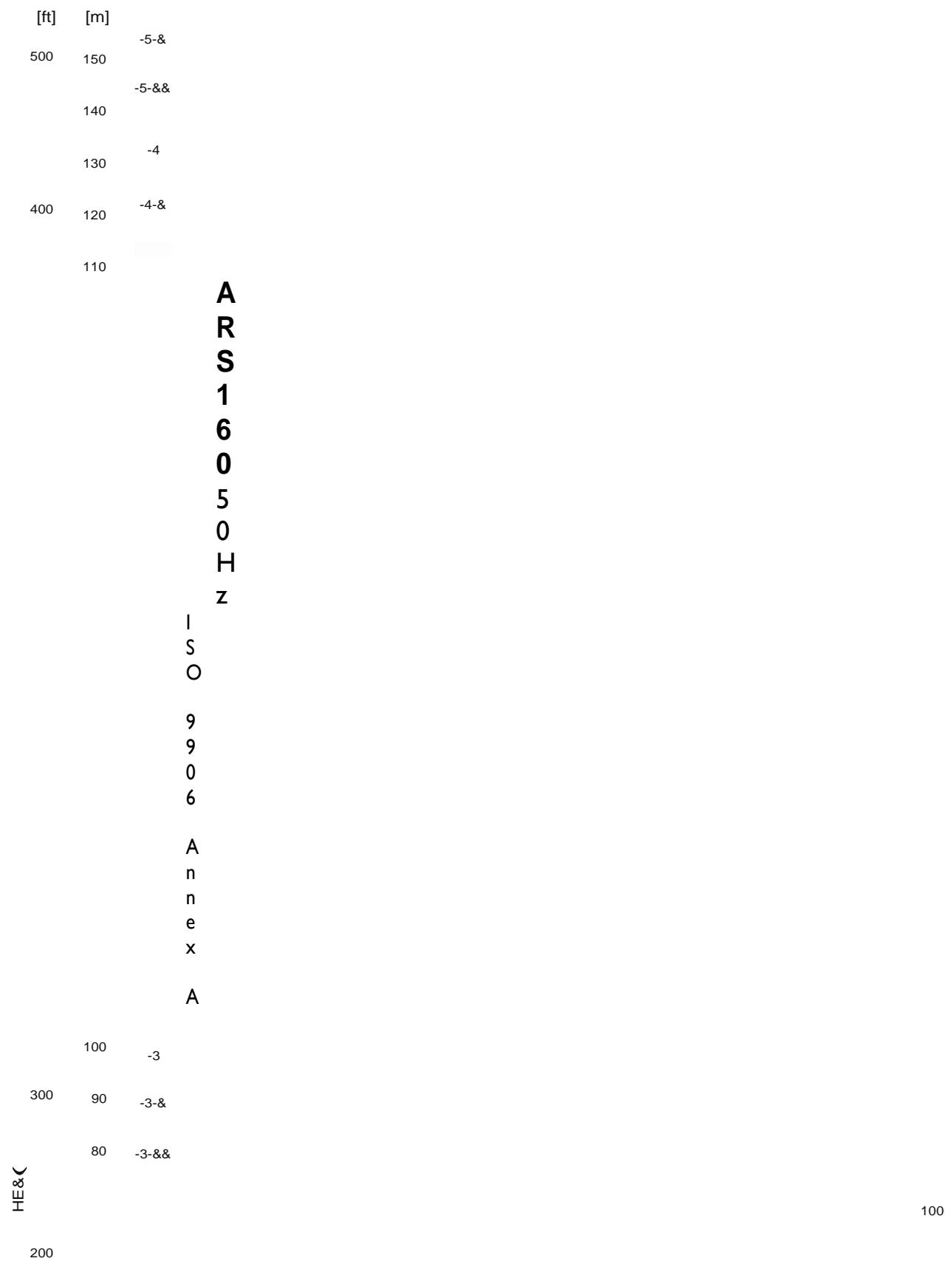
ARS125 - Power



ARS125 - Power



ARS160 - Performance



70

2

60

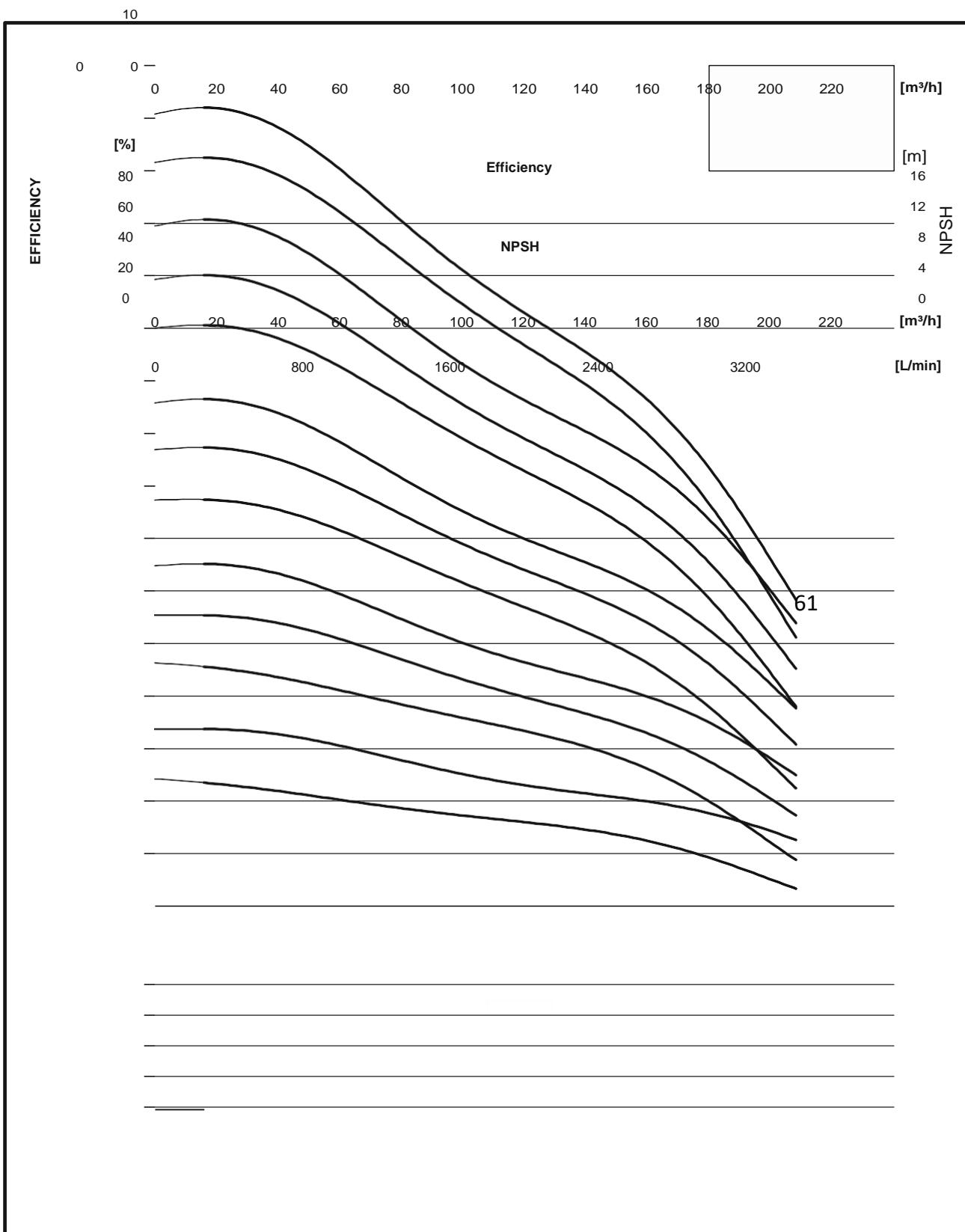
30

20

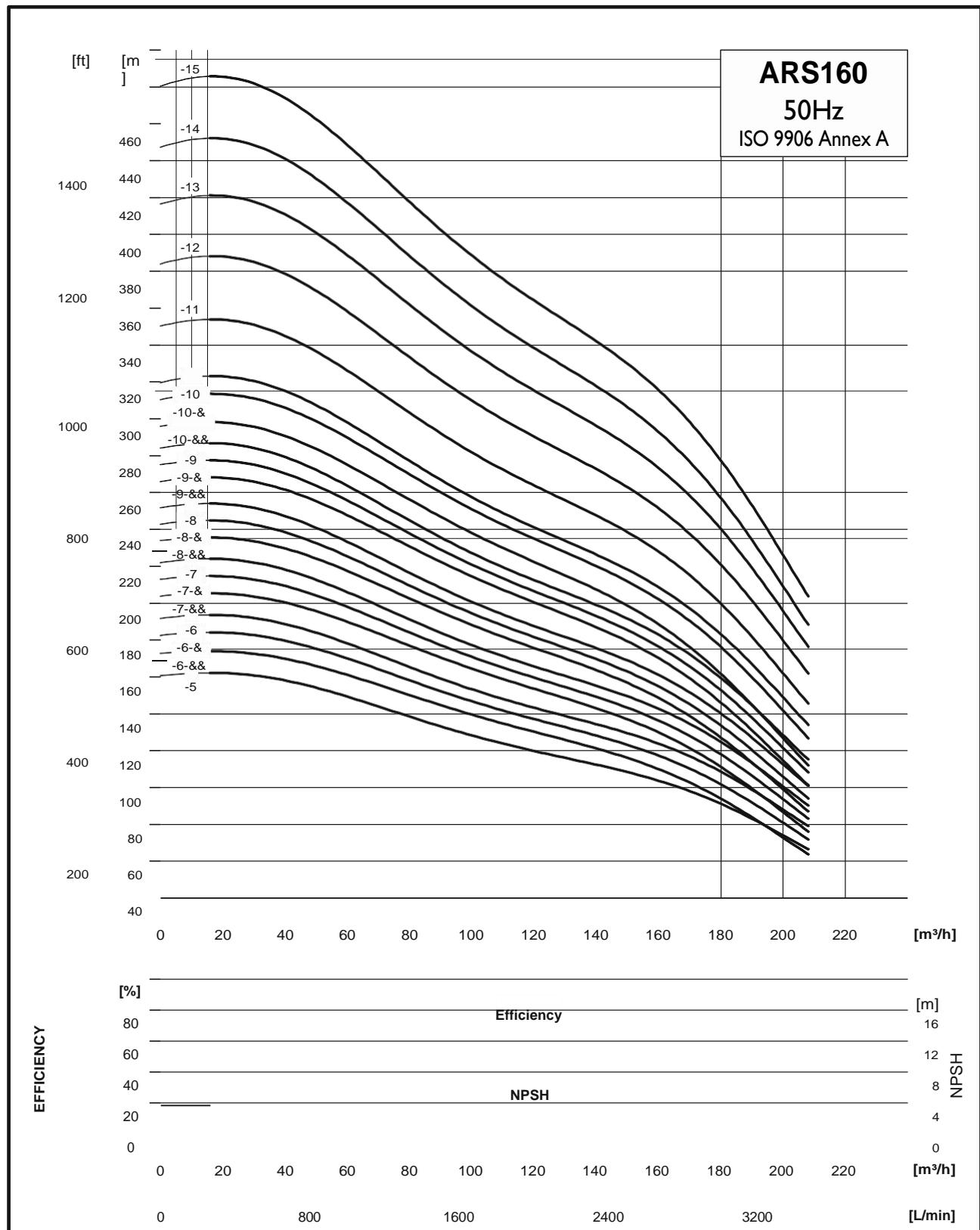
-2-&&

-1

ARS160 - Performance

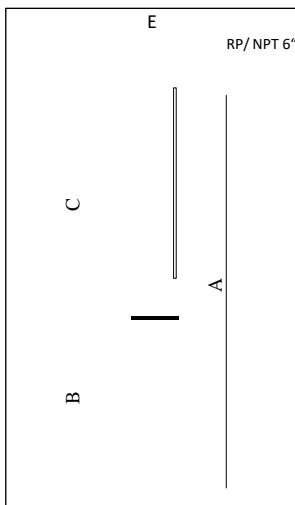


ARS160 - Performance

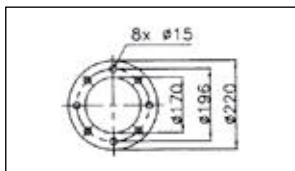


ARS160 - Technical Data

Dimensions and Weight



PUMP TYPE	MOTOR		DIMENSIONS								NET WEIGHT (kg)		
	TYPE AFM.... (inch/HP)	POWER (KW/HP)	6" Connection (RP,NPT)				6" Flange						
			A	C	E*	E**	A	C	E*	E**	B	D	
ARS160-1-A	AFM6/12.5	9.2 / 12.5	1372	652	211	218	1372	652	222	226	720	143	67
ARS160-1	AFM6/17.5	13 / 17.5	1316	652	211	218	1316	652	222	226	664	143	70
ARS160-2-AA	AFM6/25	18.5 / 25	1561	807	211	218	1561	807	222	226	754	143	92
ARS160-2-A	AFM6/30	22 / 30	1619	807	211	218	1619	807	222	226	812	143	98
ARS160-2	AFM6/35	26 / 35	1681	807	211	218	1681	807	222	226	874	143	104
ARS160-3-AA	AFM6/40	30 / 40	1907	963	211	218	1907	963	222	226	944	143	122
ARS160-3-A	AFM8/50	37 / 50	1973	963	211	218	1973	963	222	226	1010	190	185
ARS160-3	AFM8/50	37 / 50	1973	963	211	218	1973	963	222	226	1010	190	185
ARS160-4-AA	AFM8/60	45 / 60	2180	1118	218	227	2180	1118	229	232	1062	190	211
ARS160-4-A	AFM8/60	45 / 60	2180	1118	218	227	2180	1118	229	232	1062	190	211
ARS160-4	AFM8/75	55 / 75	2286	1118	218	227	2286	1118	229	232	1168	190	234
ARS160-5-AA	AFM8/75	55 / 75	2442	1274	218	227	2442	1274	229	232	1168	190	244
ARS160-5-A	AFM8/75	55 / 75	2442	1274	218	227	2442	1274	229	232	1168	190	244
ARS160-5	AFM8/90	67 / 90	2536	1274	218	227	2536	1274	229	232	1262	192	263
ARS160-6-AA	AFM8/90	67 / 90	2691	1429	218	227	2691	1429	229	232	1262	192	273
ARS160-6-A	AFM8/100	75 / 100	2753	1429	218	227	2753	1429	229	232	1324	192	290
ARS160-6	AFM8/100	75 / 100	2753	1429	218	227	2753	1429	229	232	1324	192	290
ARS160-7-AA	AFM8/100	75 / 100	2909	1585	218	227					1324	192	300
ARS160-7-A	AFM8/125	92 / 125	3054	1585	218	227					1469	192	332



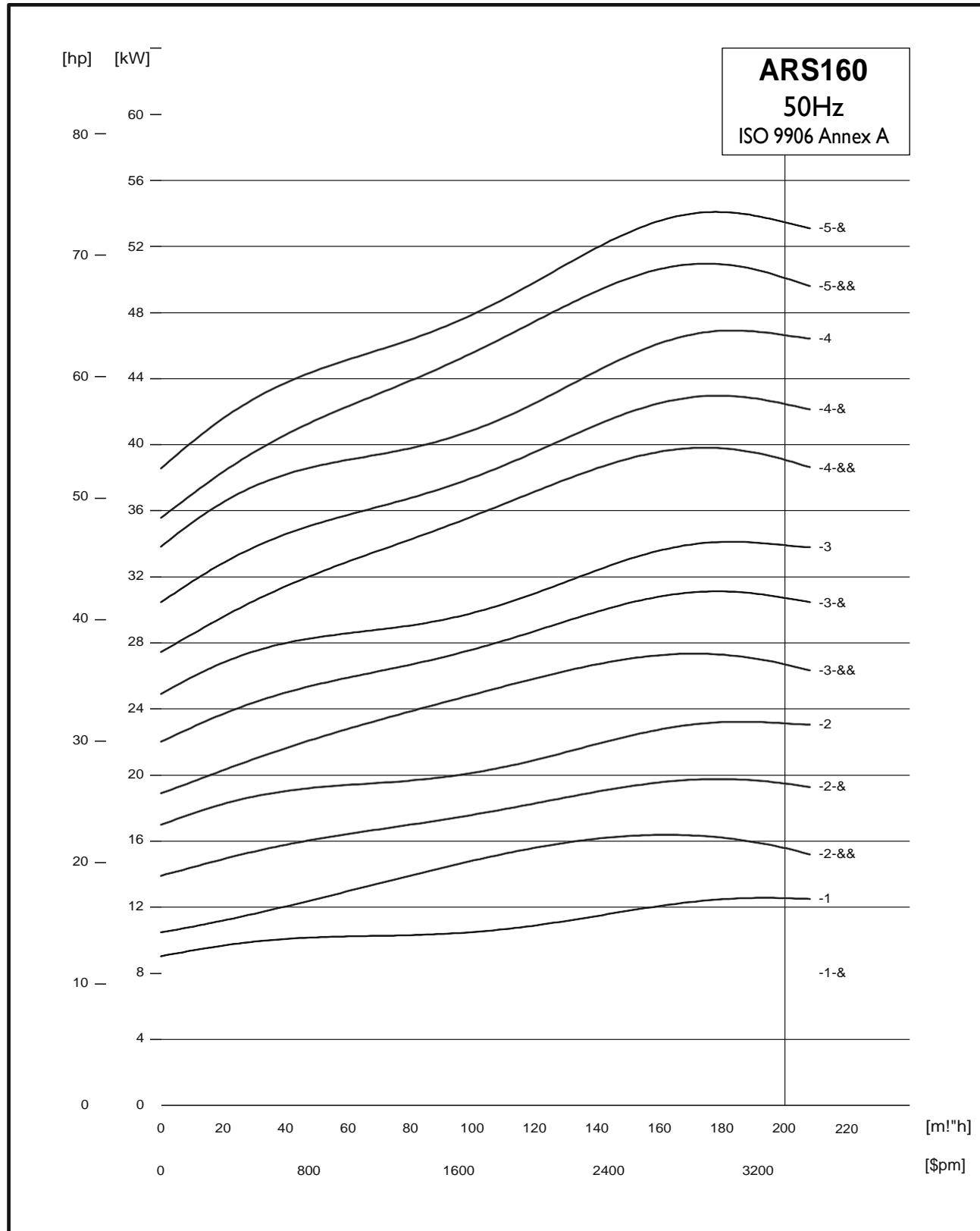
ARS160-7	AFM8/125	92 / 125	3054	1585	218	227					1469	192	332
ARS160-8-AA	AFM8/125	92 / 125	3209	1740	218	227					1469	192	343
ARS160-8-A	AFM8/125	92 / 125	3209	1740	218	227					1469	192	343
ARS160-8	AFM8/125	92 / 125	3209	1740	218	227					1469	192	343
ARS160-9-AA	AFM10/150	110 / 150	3341	1896	218	227					1445	230	439
ARS160-9-A	AFM10/150	110 / 150	3341	1896	218	227					1445	230	439
ARS160-9	AFM10/150	110 / 150	3341	1896	218	227					1445	230	439
ARS160-10-AA	AFM10/150	110 / 150	3496	2051	218	227					1445	230	449
ARS160-10-A	AFM10/200	147 / 200	3856	2181	227	247					1675	230	451
ARS160-10	AFM10/200	147 / 200	3856	2181	227	247					1675	230	451
ARS160-11	AFM10/200	147 / 200	4012	2337	227	247					1675	230	561
ARS160-12	AFM10/200	147 / 200	4167	2492	227	247					1675	230	636
ARS160-13	AFM10/250	185 / 250	4432	2648	227	247					1784	230	752
ARS160-14	AFM10/250	185 / 250	4587	2803	227	247					1784	230	762
ARS160-15	AFM12/260	190 / 260	-	-	227	247					-	-	-

* Maximum diameter of pump with one motor cable

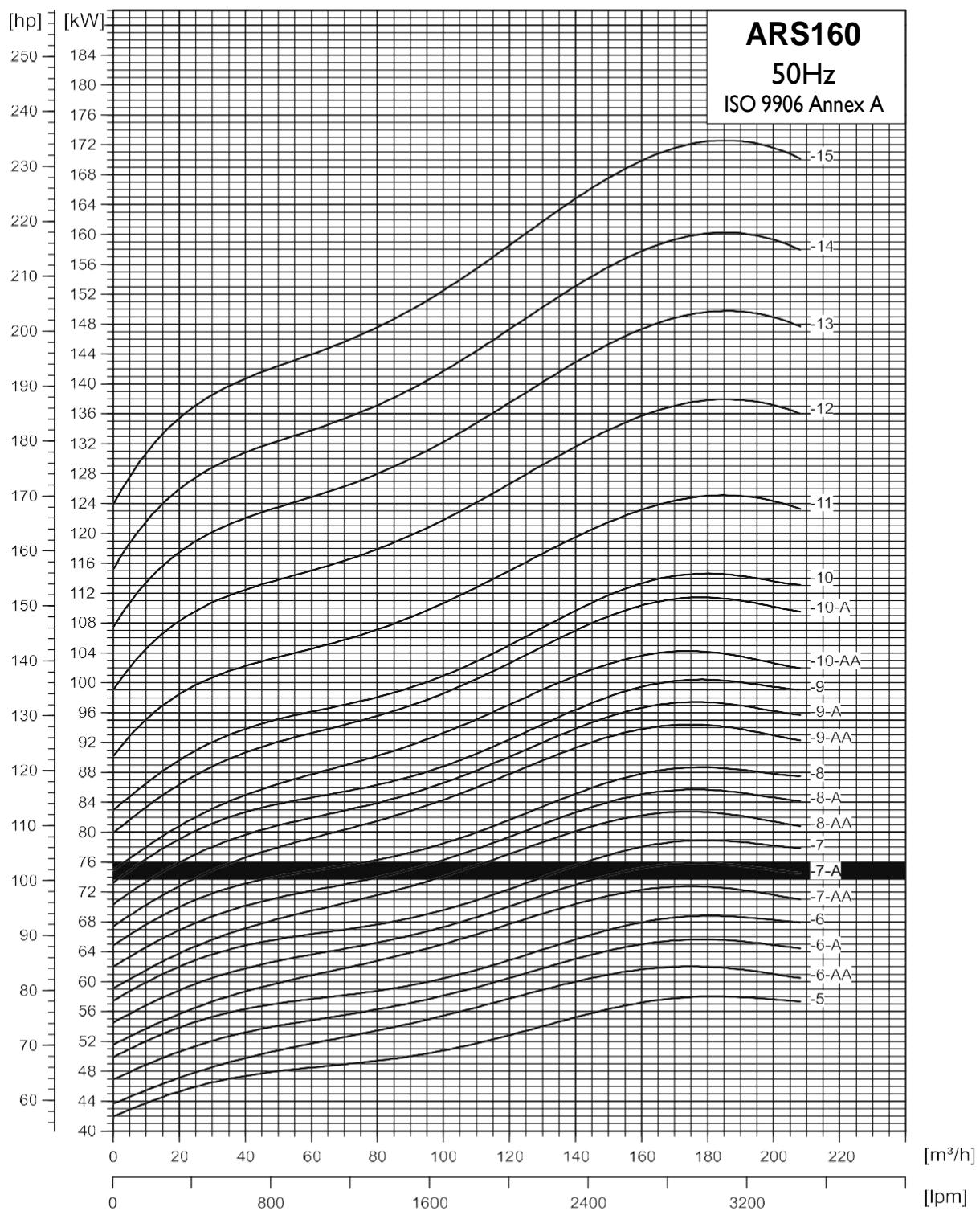
** Maximum diameter of pump with two motor cables

- On Request

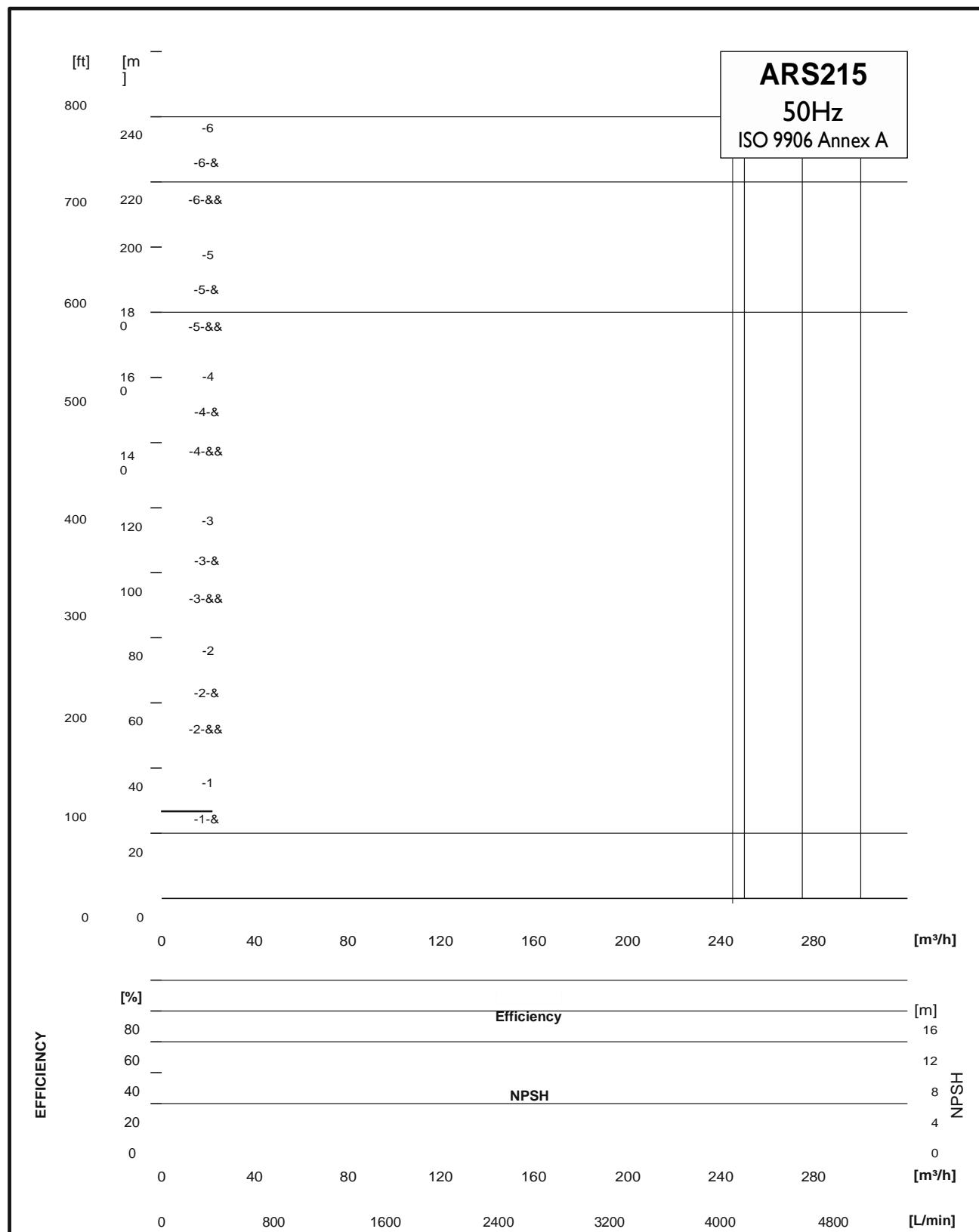
ARS160 - Power



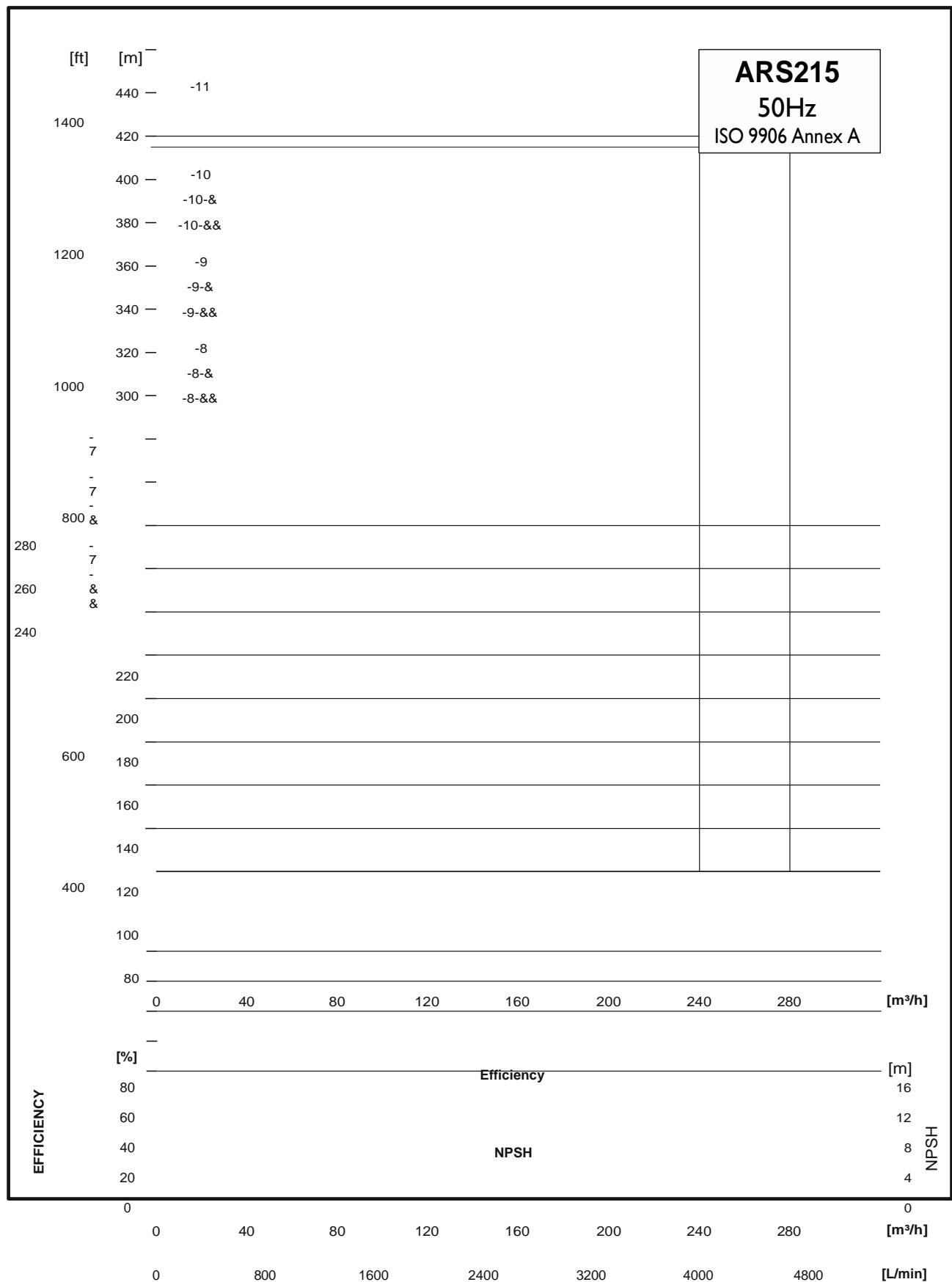
ARS160 - Power



ARS215 - Performance



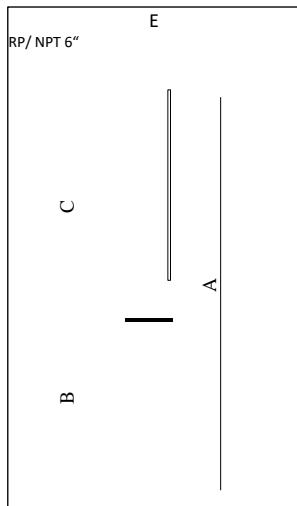
ARS215 - Performance



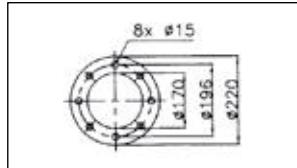
ARS215 - Performance

ARS215 - Technical

Dimensions and Weight



PUMP TYPE	MOTOR		DIMENSIONS								NET WEIGHT (kg)	
	TYPE AFM.... (inch/HP)	POWER (KW/HP)	6" Connection (RP,NPT)				6" Flange					
			A	C	E*	E**	A	C	E*	E**		
ARS215-1-A	AFM6/20	15 / 20	1470	772	237	241	1470	772	241	247	698 143 92	
ARS215-1	AFM6/25	18.5 / 25	1516	772	237	241	1516	772	241	247	744 143 97	
ARS215-2-AA	AFM6/40	30 / 40	1891	947	237	241	1891	947	241	247	944 143 142	
ARS215-2-A	AFM8/50	37 / 50	1957	947	237	241	1957	947	241	247	1010 190 205	
ARS215-2	AFM8/60	45 / 60	2009	947	237	241	2009	947	241	247	1062 190 221	
ARS215-3-AA	AFM8/75	55 / 75	2292	1124	237	241	2292	1124	241	247	1168 190 270	
ARS215-3-A	AFM8/75	55 / 75	2292	1124	237	241	2292	1124	241	247	1168 190 270	
ARS215-3	AFM8/90	67 / 90	2386	1124	237	241	2386	1124	241	247	1262 192 289	
ARS215-4-AA	AFM8/100	75 / 100	2624	1300	237	241	2624	1300	241	247	1324 192 331	
ARS215-4-A	AFM8/100	75 / 100	2624	1300	237	241	2624	1300	241	247	1324 192 331	
ARS215-4	AFM8/100	75 / 100	2624	1300	237	241	2624	1300	241	247	1324 192 331	
ARS215-5-AA	AFM8/125	92 / 125	2944	1475	237	241	2944	1475	241	247	1469 192 389	
ARS215-5-A	AFM8/125	92 / 125	2944	1475	237	241	2944	1475	241	247	1469 192 389	
ARS215-5	AFM8/125	92 / 125	2944	1475	237	241	2944	1475	241	247	1469 192 389	
ARS215-6-AA	AFM8/150	110 / 150	3218	1651	237	241	3218	1651	241	247	1567 192 414	
ARS215-6-A	AFM8/150	110 / 150	3218	1651	237	241	3218	1651	241	247	1567 192 414	
ARS215-6	AFM10/150	110 / 150	3096	1651	237	241	3096	1651	241	247	1445 230 552	
ARS215-7-AA	AFM10/200	147 / 200	3502	1827	262	274					1675 230 628	
ARS215-7-A	AFM10/200	147 / 200	3502	1827	262	274					1675 230 628	



ARS215-7	AFM10/200	147 / 200	3502	1827	262	274					1675 230 628
ARS215-8-AA	AFM10/200	147 / 200	3679	2004	262	274					1675 230 783
ARS215-8-A	AFM10/200	147 / 200	3679	2004	262	274					1675 230 783
ARS215-8	AFM10/200	147 / 200	3679	2004	262	274					1675 230 783
ARS215-9-AA	AFM10/250	185 / 250	3964	2180	262	274					1784 230 849
ARS215-9-A	AFM10/250	185 / 250	3964	2180	262	274					1784 230 849
ARS215-9	AFM10/250	185 / 250	3964	2180	262	274					1784 230 849
ARS215-10-AA	AFM12/260	190 / 260	-	-	-	-					- - -
ARS215-10-A	AFM12/260	190 / 260	-	-	-	-					- - -
ARS215-10	AFM12/260	190 / 260	-	-	-	-					- - -
ARS215-11	AFM12/300	220 / 300	-	-	-	-					- - -

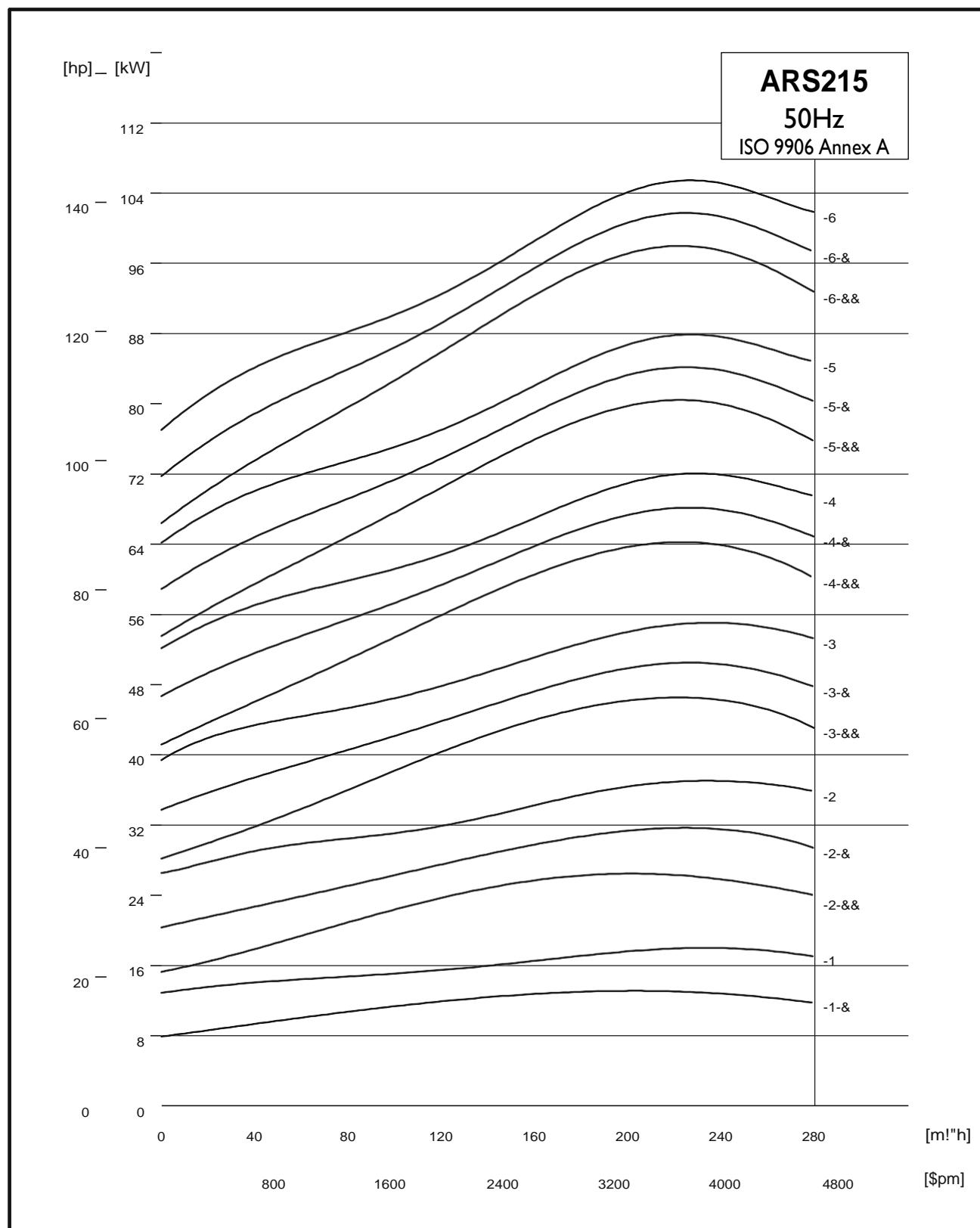
* Maximum diameter of pump with one motor cable

** Maximum diameter of pump with two motor cables

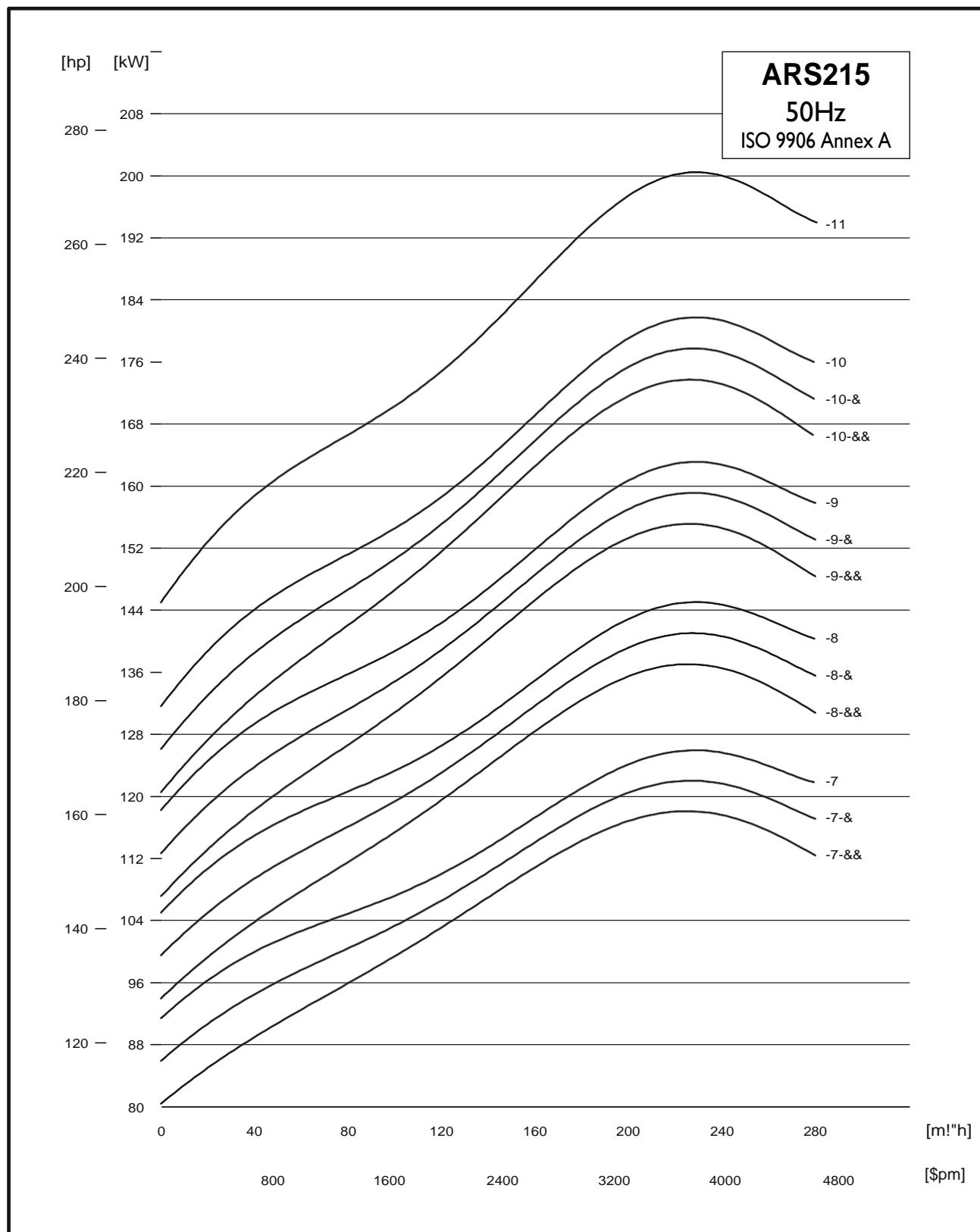
- On Request

ARS215 - Technical

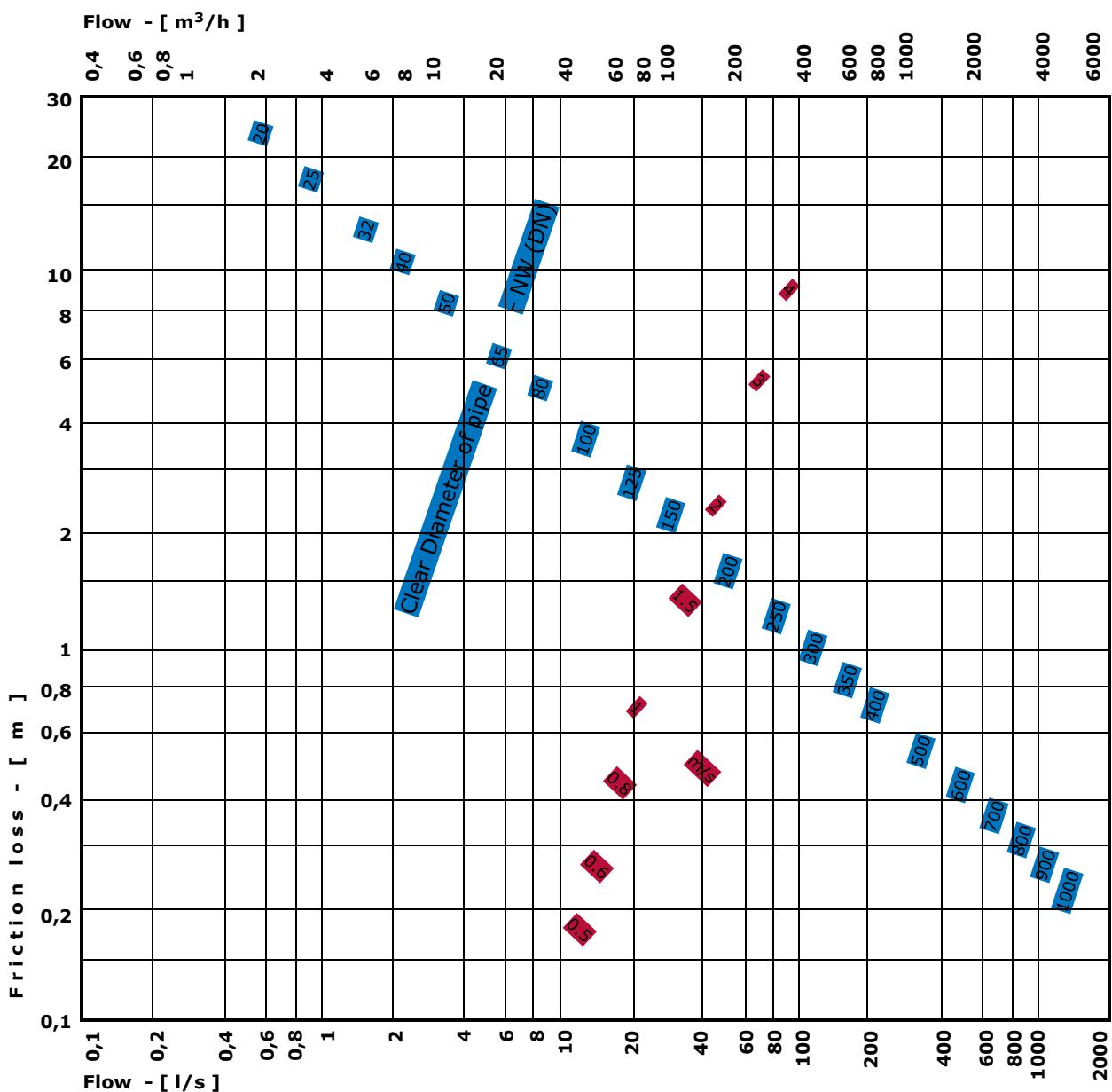
ARS215 - Power



ARS215 - Power



Friction Loss in Straight Pipework



Friction loss in metres for 100m new pipeline of cast iron

The friction loss for:

New rolled steel pipes : 0.8 times

New plastic pipes: 0.8 times

Older, rusty cast iron pipes about: 1.25 times

Pipes with encrustations up to: 1.7 times

Head Losses in Ordinary Water Pipes

Upper figures indicate the velocity of water in m/sec.

Lower figures indicate head in metres per 100 metres of straight pipes

Quantity of Water m ³ /h	Head Losses In Ordinary Water Pipes									
	Nominal Pipe Diameter in Inches and Internal Diameter in (mm)									
	1/2" 15.75	3/4" 21.25	1 27.00	1 1/4" 35.75	1 1/2" 41.25	2" 52.50	2 1/2" 68.00	3" 80.25	3 1/2" 92.50	4" 105.0
0.855	0.470	0.292								
9.910	2.407	0.784								
1.282	0.705	0.438	0.249							
20.11	4.862	1.570	0.416							
1.710	0.940	0.584	0.331	0.249						
33.53	8.035	2.588	0.677	0.346						
2.138	1.174	0.730	0.415	0.312						
49.93	11.91	3.834	1.004	0.510						
2.565	1.409	0.876	0.498	0.374	0.231					
69.34	16.50	5.277	1.379	0.700	0.223					
2.993	1.644	1.022	0.581	0.436	0.269					
91.54	21.75	6.949	1.811	0.914	0.291					
1.879	1.168	0.664	0.499	0.308						
27.66	8.820	2.290	1.160	0.368						
2.349	1.460	0.830	0.623	0.385	0.229					
41.40	13.14	3.403	1.719	0.544	0.159					
2.819	1.751	0.996	0.748	0.462	0.275					
57.74	18.28	4.718	2.375	0.751	0.218					
3.288	2.043	1.162	0.873	0.539	0.321	0.231				
76.49	24.18	6.231	3.132	0.988	0.287	0.131				
2.335	1.328	0.997	0.616	0.367	0.263					
30.87	7.940	3.988	1.254	0.363	0.164					
2.627	1.494	1.122	0.693	0.413	0.269					
38.30	9.828	4.927	1.551	0.449	0.203					
2.919	1.660	1.247	0.770	0.459	0.329	0.248				
46.49	11.90	5.972	1.875	0.542	0.244	0.124				
3.649	2.075	1.558	0.962	0.574	0.412	0.310	0.241			
70.41	17.93	8.967	2.802	0.809	0.365	0.185	0.101			
2.490	1.870	1.154	0.668	0.494	0.372	0.289				
25.11	12.53	3.903	1.124	0.506	0.256	0.140				
2.904	2.182	1.347	0.803	0.576	0.434	0.337				
33.32	16.66	5.179	1.488	0.670	0.338	0.184				
3.319	2.493	1.539	0.918	0.659	0.496	0.385	0.251			
42.75	21.36	6.624	1.901	0.855	0.431	0.234	0.084			
4.149	3.117	1.924	1.147	0.823	0.620	0.481	0.314			
64.86	32.32	10.03	2.860	1.282	0.646	0.350	0.126			
3.740	2.309	1.377	0.988	0.744	0.577	0.377	0.263			
45.52	14.04	4.009	1.792	0.903	0.488	0.175	0.074			
4.987	3.078	1.836	1.317	0.992	0.770	0.502	0.351			
78.17	24.04	6.828	3.053	1.530	0.829	0.294	0.124			
3.848	2.295	1.647	1.240	0.962	0.628	0.439				
36.71	10.40	4.622	2.315	1.254	0.445	0.187				
46.18	2.753	1.976	1.488	1.155	0.753	0.526				
51.84	14.62	6.505	3.261	1.757	0.623	0.260				
3.212	2.306	1.736	1.347	0.879	0.614					
19.52	8.693	4.356	2.345	0.831	0.347					
3.671	2.635	1.984	1.540	1.005	0.702					
25.20	11.18	5.582	3.009	1.066	0.445					
4.130	2.964	2.232	1.732	1.130	0.790					
31.51	13.97	6.983	3.762	1.328	0.555					
4.589	3.294	2.480	1.925	1.256	0.877					
38.43	17.06	8.521	4.595	1.616	0.674					
4.117	3.100	2.406	1.570	1.097						
26.10	13.00	7.010	2.458	1.027						
4.941	3.720	2.887	1.883	1.316						
36.97	18.42	9.892	3.458	1.444						
	4.340	3.368	1.883	1.535						
	24.76	13.30	3.468	1.934						
	4.960	3.850	2.197	1.754						
	31.94	17.16	4.665	2.496						
	4.812	2.511	2.193							
	26.26	5.995	3.807							
	3.139	2.632								
	9.216	5.417								
	3.767	3.509								
	13.05	8.926								
	5.523	4.386								
	22.72	14.42								
	1.7	2.5								
	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 valves is equivalent to the metres 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.

Head Losses in Ordinary Plastic Pipes

Upper figures indicate the velocity of water in m/sec.

Lower figures indicate head in metres per 100 metres of straight pipes

Quantity of Water m ³ /h	PELM				PEH	
	25	32	40	50	110	125
20.4	26.2	32.6	40.8		90.0	102.2
0.49	0.30	0.19	0.12			
1.8	0.66	0.27	0.085			
0.76	0.46	0.3	0.19	0.12		
4.0	1.14	0.6	0.18	0.63		
1.0	0.61	0.39	0.25	0.16		
6.4	2.2	0.9	0.28	0.11		
	1.3	0.78	0.5	0.32	0.2	0.14
10.0	3.5	1.4	0.43	0.17	0.074	
1.53	0.93	0.6	0.38	0.24	0.17	
13.0	4.6	1.9	0.57	0.22	0.092	
1.77	1.08	0.69	0.44	0.28	0.2	
16.0	6.0	2.0	0.70	0.27	0.12	
2.05	1.24	0.80	0.51	0.32	0.23	0.16
22.0	7.5	3.3	0.93	0.35	0.16	0.063
2.54	1.54	0.99	0.63	0.4	0.28	0.2
37.0	11.0	4.8	1.40	0.50	0.22	0.09
3.06	1.85	1.2	0.76	0.48	0.34	0.24
43.0	15.0	6.5	1.90	0.70	0.32	0.13
3.43	2.08	1.34	0.86	0.54	0.38	0.26
50.0	18.0	8.0	2.50	0.83	0.38	0.17
2.47	1.59	1.02	0.64	0.45	0.31	0.2
25.0	10.5	3.00	1.20	0.50	0.22	0.084
2.78	1.8	1.15	0.72	0.51	0.35	0.24
30.0	12.0	3.50	1.30	0.57	0.26	0.092
3.1	2.0	1.28	0.8	0.56	0.39	0.26
39.0	16.0	4.6	1.80	0.73	0.30	0.12
3.86	2.49	1.59	1.00	0.70	0.49	0.33
50.0	24.0	6.6	2.50	1.10	0.50	0.18
3.00	1.91	1.20	0.84	0.59	0.39	0.30
33.0	8.6	3.5	1.40	0.63	0.24	0.13
3.5	2.23	1.41	0.99	0.69	0.46	0.36
38.0	11.0	4.3	1.80	0.78	0.30	0.18
3.99	2.55	1.60	1.12	0.78	0.52	0.41
50.0	14.0	5.5	2.40	1.0	0.40	0.22
.	3.19	2.01	1.41	0.98	0.66	0.51
	21.0	8.0	3.70	1.50	0.57	0.34
3.82	2.41	1.69	1.18	0.78	0.61	0.48
28.0	10.5	4.60	1.95	0.77	0.45	0.25
	3.21	2.25	1.57	1.05	0.81	0.65
	19.0	8.0	3.60	1.40	0.78	0.44
4.01	2.81	1.96	1.0	1.02	0.81	0.62
28.0	11.5	5.0	2.0	1.20	0.63	0.33
4.82	3.38	2.35	1.57	1.22	0.97	0.74
37.0	15.0	6.6	2.60	1.50	0.82	0.45
5.64	3.95	2.75	1.84	1.43	1.13	0.87
47.0	24.0	8.0	3.50	1.90	1.10	0.60
4.49	3.13	2.09	1.62	1.29	0.99	0.78
26.0	11.0	4.5	2.60	1.40	0.81	0.48
5.07	3.53	2.36	1.83	1.45	1.12	0.88
33.0	13.5	5.5	3.20	1.70	1.05	0.58
5.64	3.93	2.63	2.04	1.62	1.24	0.96
40.0	16.0	6.7	3.90	2.2	1.2	0.75
4.89	3.27	2.54	2.02	1.55	1.22	
25.0	9.0	5.0	3.0	1.6	0.95	
5.88	3.93	3.05	2.42	1.86	1.47	
33.0	13.0	8.0	4.1	2.3	1.40	
6.86	4.59	3.56	2.83	2.17	1.72	
44.0	17.5	9.7	5.7	3.2	1.9	
	5.23	4.06	3.23	2.48	1.96	
	23.0	13.0	7.0	4.0	2.4	
6.55	5.08	4.04	3.10	2.45		
34.0	18.0	10.5	6.0	3.5		
7.86	6.1	4.85	3.72	2.94		
45.0	27.0	14.0	7.6			
	8.13	6.47	4.96	3.92		
	43.0	24.0	13.0	7.5		
			8.08	6.2	4.89	
			33.0	18.0	11.0	

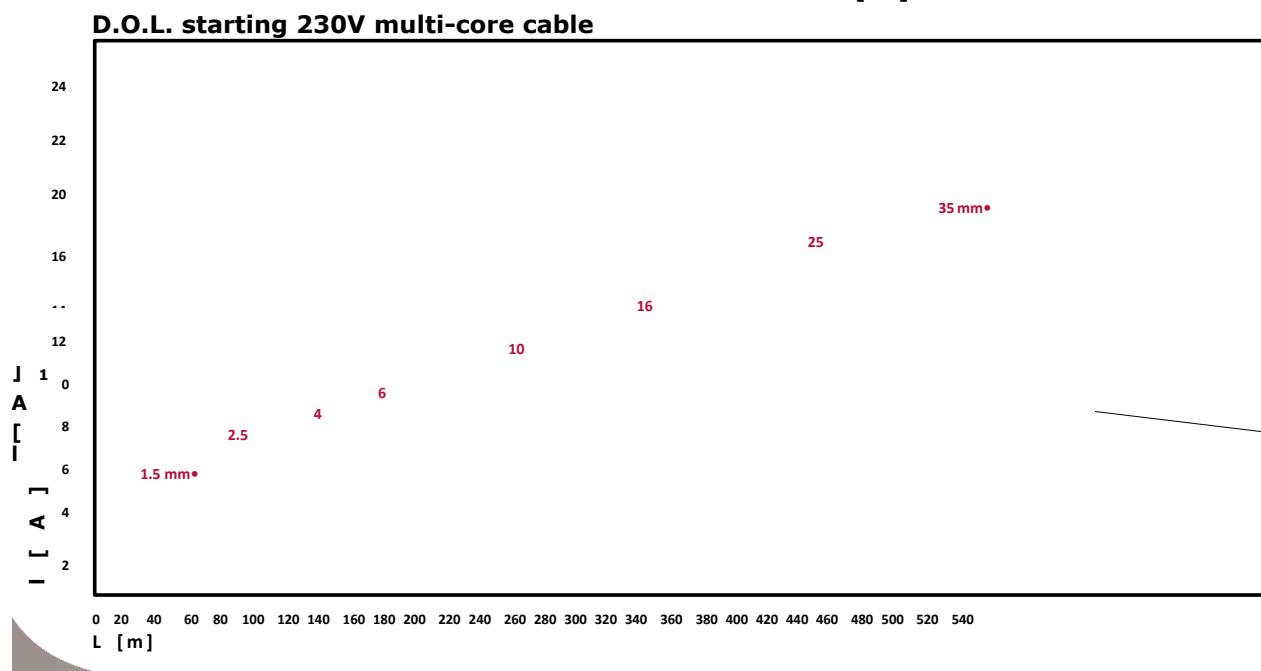
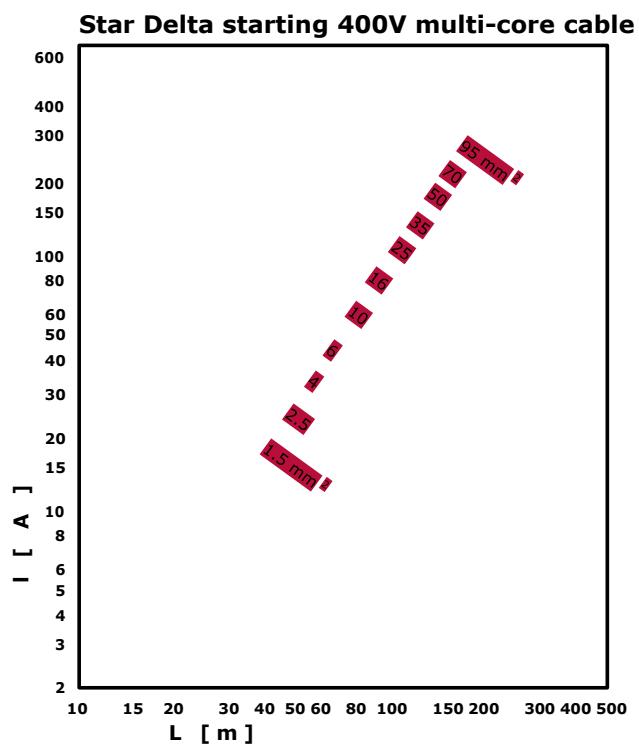
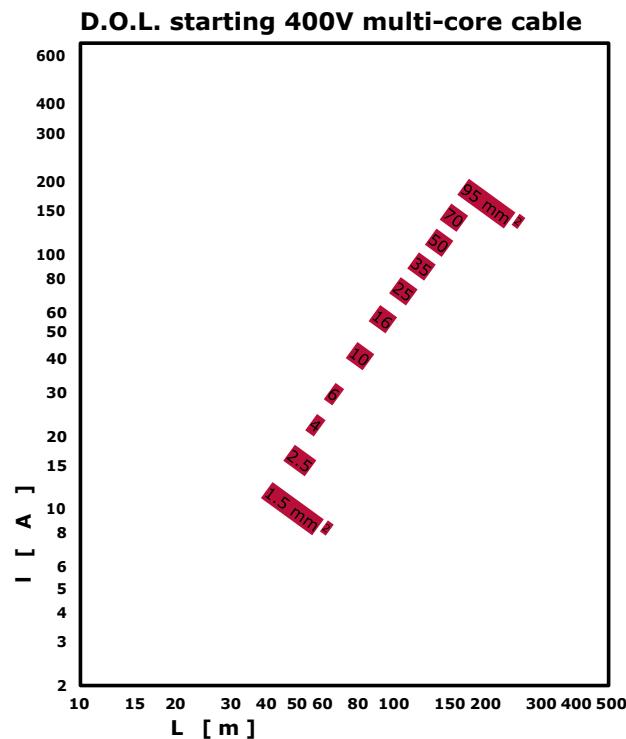
The table is based on a nomogram .

Roughness : K =0.01mm

Water temperature : t =10°C

Subject to alterations

Cable Selection Chart



Cable Size

Motor Rating (HP)	Star - Delta Operation (Y/D) MAX. CABLE LENGTH (m)										
	CABLE SIZE (mm ²)										
3x1.5	3x2.5	3x4	3x6	3x10	3x16	3x25	3x35	3x50	3x70	3x95	
5.5	97	161	258	388	646	1033	1615	2261	3230	4521	6139
7.5	72	121	193	290	483	773	1207	1690	2415	3381	4588
10	57	96	153	230	383	613	958	1342	1916	2683	3641
12.5	47	78	125	188	313	501	783	1096	1565	2191	2974
15	41	68	109	163	271	434	678	949	1356	1899	2577
17.5	34	57	92	138	230	367	574	803	1148	1607	2181
20	29	49	79	118	196	314	491	688	982	1375	1867
25		40	64	96	159	255	398	558	797	1115	1514
30			54	81	136	217	339	475	678	949	1288
35			46	68	114	182	285	399	570	798	1083
40				60	101	161	252	352	503	705	956
50					84	134	209	293	418	585	794
60						69	110	172	241	344	481
70						59	95	149	208	297	416
75							90	141	197	281	394
80							82	129	180	258	361
90							74	115	162	231	323
100								103	144	206	289
110								95	134	191	267
125									118	168	235
150									101	144	201
175										123	172
200											207
210											152
											196

Motor Rating (HP)	D.O.L. MAX. CABLE LENGTH (m)										
	CABLE SIZE (mm ²)										
3x1.5	3x2.5	3x4	3x6	3x10	3x16	3x25	3x35	3x50	3x70	3x95	
5.5	65	108	172	258	431	689	1077	1507	2153	3014	4091
7.5	48	80	129	193	322	515	805	1127	1610	2254	3059
10	38	64	102	153	256	409	639	894	1278	1789	2428
12.5	52	83	125	209	334	522	730	1043	1461	1982	
15	45	72	109	181	289	452	633	904	1266	1718	
17.5		61	92	153	245	383	536	765	1071	1454	
20		52	79	131	210	327	458	655	917	1244	
25				106	170	266	372	531	744	1009	
30					90	145	226	316	452	633	859
35					76	122	190	266	380	532	722
40					67	107	168	235	336	470	638
50						89	139	195	279	390	529
60							115	160	229	321	435
70								139	198	278	377
75									131	187	262
80									120	172	326
90										154	215
100										137	192
110										127	178
125											213
150											182
175											155
200											
210											



