

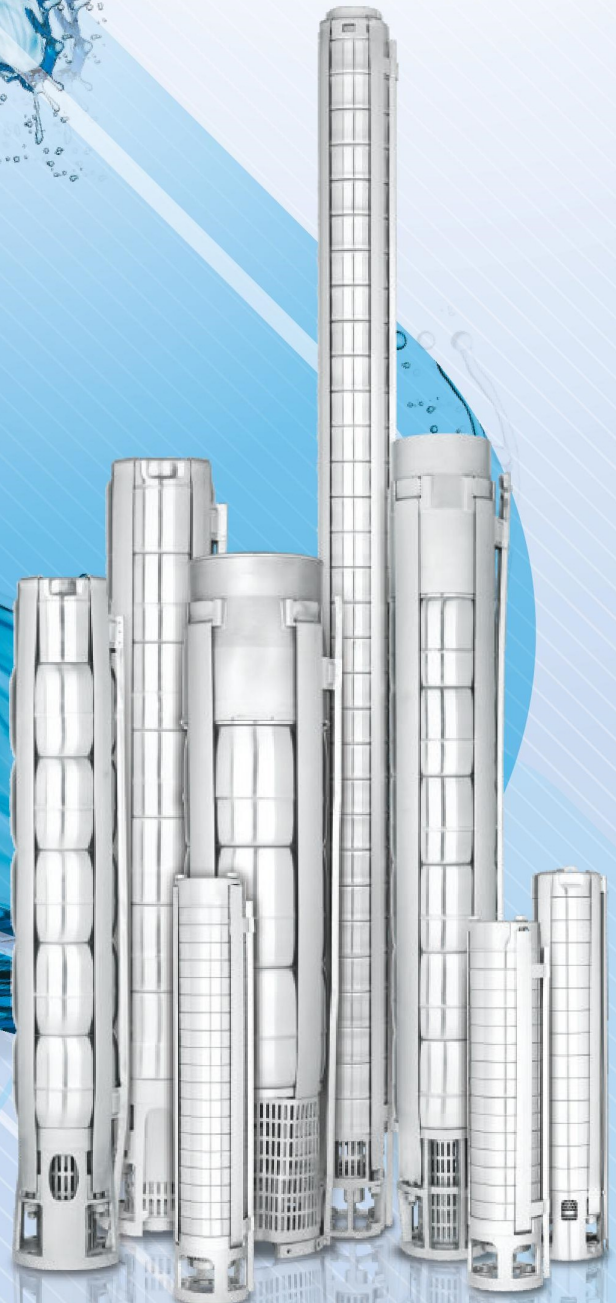
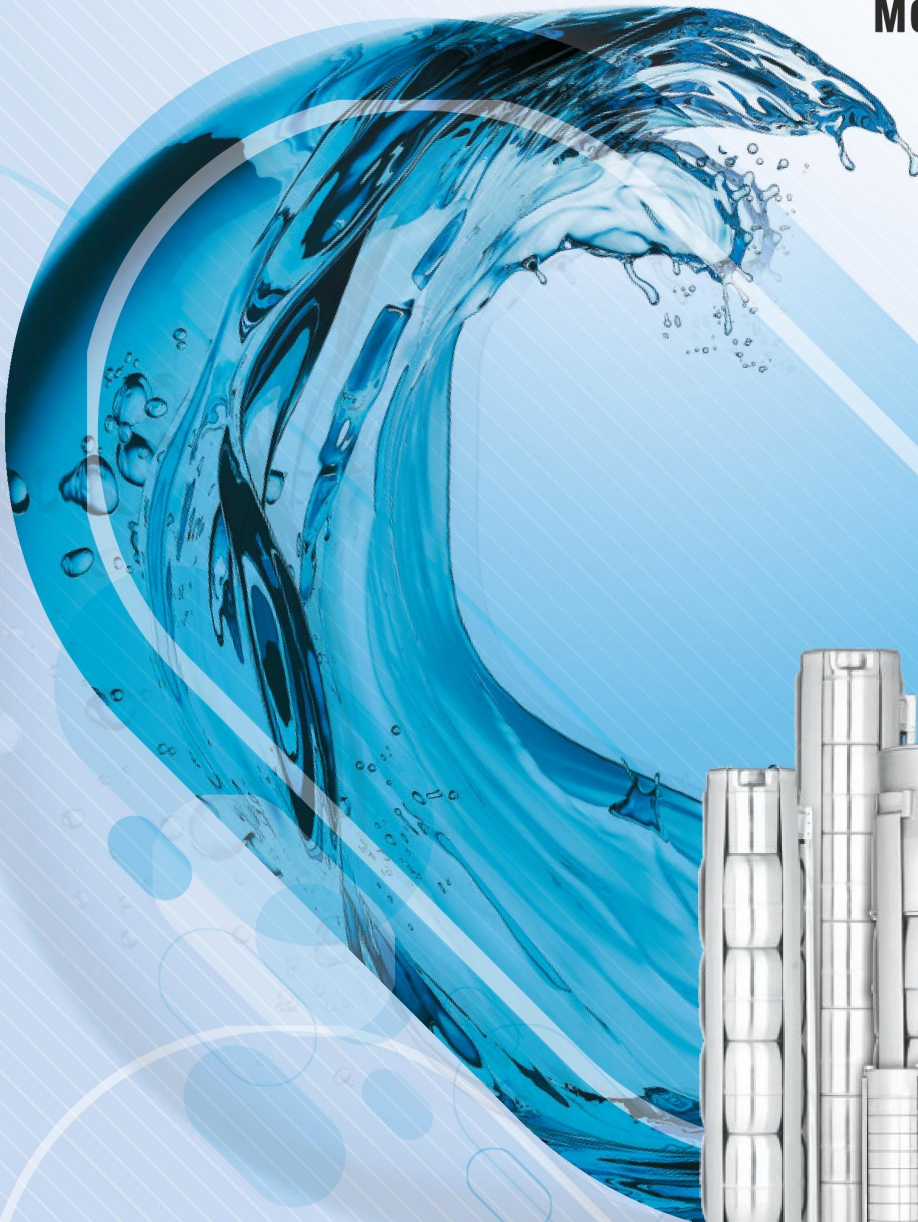


Since 1969

Unnati[®]

MOTORS | PUMPS

50 Hz



TOGETHER WE CAN DO IT
TOGETHER WE HAVE ALWAYS DONE IT



QUALITY POLICY

"UNNATI" aims to meet customer requirements and expectations by supply quality product on schedule time and continually improve the effectiveness of the quality management system".

QUALITY OBJECTIVES

The quality objective of unnati management is to supply only that product, which meets customer requirements as per international standards of quality, performance, reliability, specified by him. And only those items will be submitted to him for acceptance, which fully meet the inherent requirements of product.

Also every step is taken to establish and maintain an effective and efficient quality program planned and developed in conjunction with other management functions by first time right principles.



Index

Product Data	06
Performance Range	07
Product Range	08
Construction	09
Technical Data	
4" USP2	10
4" USP3	12
4" USP5	14
4" USP8	16
4" USP14	18
6" USP12	20
6" USP14A	24
6" USP17	28
6" USP30	32
6" USP46	36
6" USP60	40
6" USP77	44
8" USP95	48
10" USP125	52
10" USP160	56
10" USP215	58



Introduction

Submersible bore well pumps for 4" wells (DN 100mm), 6" (DN 150mm), 8" (DN 200mm), 10" (DN 250mm) are constructed out of stainless steel AISI 304 (stainless steel AISI 316 material available on request)

Size for connection to the motor according NEMA standards up to 8" motor joining.

Delivery casing with built-in non-return valve.

Impellers:

Radial flow impellers

- 4" : USP2, USP3, USP5
Mixed flow impellers
- 4" : USP8, USP14
- 6" : USP12, USP14A, USP17, USP30, USP46, USP60
- 8" : USP77, USP95
- 10" : USP125, USP160, USP215

Connection:

Screwed pipe connection with BSP thread as standard.

BSP thread pipe connection are available on request.

Operating conditions

- Flow range : Max. 282 m³/h
- Head range : Max. 750 m
- Liquid temperature : 0°C to +45°C
- Max. sand content into the water : 50 g/m³

Nomenclature:

Example	USP	46	-5	-A	B	N
Type range (USP)						
Pump type						
Number of impellers						
First impeller with reduced diameter (A, B or C)						
Second impeller with reduced diameter (A, B or C)						
Stainless steel parts of material						
= AISI 304 (DIN W.-Nr. 1.4301) (Standard construction)						
N = AISI 316 (DIN W.-Nr. 1.4401)						

Liquid suitable for pumping:

These pumps are designed for liquids which are thin, clean, non-aggressive, non-explosive, not containing solid particles or fibres.

Special versions made of stainless steel AISI 316 are available for applications involving aggressive liquids.

Curve conditions

The conditions below apply to the curves shown the following pages.

General

- Tolerances in accordance with ISO 9906.
- The motors used for the measurement are standard motors.
- Test results with clean cold water, without gas content. Measurements have been made with airless water at a temperature of 20°C.
- Head and power values valid for liquids with density = 1.0 kg/dm³ and kinematic viscosity $\nu = \max 1 \text{ mm}^2/\text{s}$ (1 cSt).
- When pumping liquids with a density higher than that of water, motors with correspondingly higher outputs must be used.
- The QH curves apply to a rated motor speed of 2900 min⁻¹.
- The performance curves are inclusive of possible losses such as non-return valve losses.
- A safety margin of + 2 feet is recommend for the NPSH value.

4" curves

- QH: The curves are inclusive of valve and inlet losses at the actual speed.
- Power curve: The power curve shows pump power input at the actual speed for one stage.
- Efficiency curve: p% shows pump stage efficiency.

6", 8" & 10" curves

- QH: 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 1m.
- NPSH: The curve is inclusive of suction interconnector and shows required inlet pressure.
- Power curve: The power curve shows pump power input at the actual speed for one stage.
- Efficiency curve: p% show pump stage efficiency.



Performance Range

Stainless steel submersible bore well pumps

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Model	Borewell Dia.	Discharge Range (m ³ /h)	Head Range (Mtrs)	Del. (BSP)
USP2	4"	0-2.7	10-547	1 ¼"
USP3	4"	0-4.3	10-434	1 ¼"
USP5	4"	0-6.7	9-542	1 ¼"
USP8	4"	0-11.4	11-434	2"
USP14	4"	0-18.8	12-164	2"
USP12	6"	0-18.33	4-460	3"
USP14A	6"	0-18	6-462	3"
USP17	6"	0-22.1	4-671	3"
USP30	6"	0-39	3-565	3"
USP46	6"	0-60	0-508	3¾"
USP60	6"	0-79	0-323	3¾"
USP77	8"	0-100	7-403	5"
USP95	8"	0-123.8	6-423	5"
USP125	10"	0-162.5	5-495	6"
USP160	10"	0-217	4-161	6"
USP215	10"	0-280	3-195	6"



Product Range

Stainless steel submersible bore well pumps

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**USP2, USP3
& USP5**



USP8



USP14



**USP12,
14A, 17**



USP30



USP46 & USP60



USP77 & USP95



**USP125
& USP160**



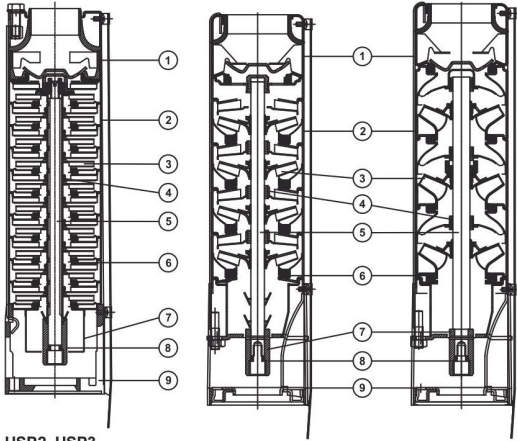
USP215





Sectional drawing & Materials

4" Stainless steel submersible bore well pumps



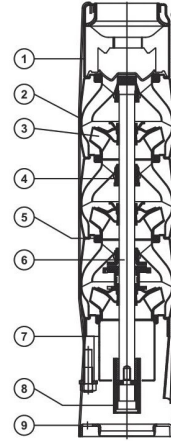
USP2, USP3,
USP5

USP8

USP14

Pos.	Component	Material
01	Delivery casing	Stainless steel AISI 304 / Cf8
02	Diffuser	Stainless steel AISI 304
03	Impeller	Stainless steel AISI 304
04	Bearing	NBR
05	Pump shaft	Stainless steel AISI 410 / 304
06	Neck ring	NBR
07	Strainer	Stainless steel AISI 304
08	Coupling	Stainless steel AISI 304
09	Suction inter connector	Stainless steel AISI 304

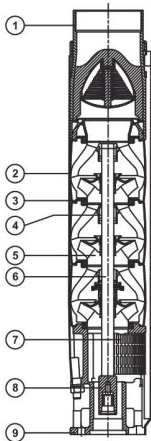
6" Stainless steel submersible bore well pumps



USP12, USP14A, USP17, USP30, USP46, USP60

Pos.	Component	Material
01	Delivery casing	Stainless steel AISI 304
02	Diffuser	Stainless steel AISI 304
03	Impeller	Stainless steel AISI 304
04	Bearing	NBR
05	Neck ring	NBR
06	Pump shaft	Stainless steel AISI 431
07	Strainer	Stainless steel AISI 304
08	Coupling	Stainless steel AISI 304
09	Suction inter connector	Stainless steel AISI 304
10	Upper Thrust	Stainless steel AISI 304 / NR

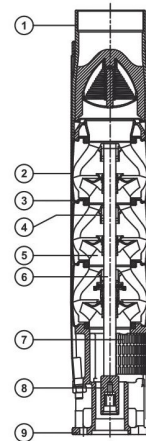
8" Stainless steel submersible bore well pumps



USP77, USP95

Pos.	Component	Material
01	Delivery casing	Stainless steel AISI 304 / CF8
02	Diffuser	AISI 304
03	Neck ring	NBR
04	Bearing	NBR
05	Impeller	AISI 304
06	Pump shaft	AISI 431
07	Strainer	Stainless steel AISI 304
08	Coupling	AISI 304
09	Suction inter connector	Stainless steel AISI 304 / CF8

10" Stainless steel submersible bore well pumps



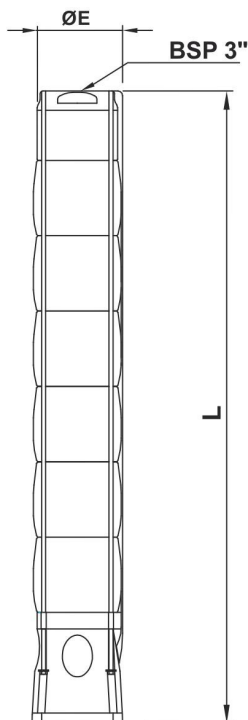
USP125, USP160, USP215

Pos.	Component	Material
01	Delivery casing	Stainless steel AISI 304 / Cf8
02	Diffuser	Stainless steel AISI 304
03	Neck ring	NBR
04	Bearing	NBR
05	Impeller	Stainless steel AISI 304
06	Pump shaft	Stainless steel AISI 431
07	Strainer	Stainless steel AISI 304
08	Coupling	Stainless steel AISI 304
09	Suction inter connector	Stainless steel AISI 304 / Cf8



Performance Table

Model Name	kW	HP	Stage	Q	n = 2900 rpm						
				m ³ /h	0	4	6	10	13	16	18.3
				L/min	0	67	100	167	217	267	305
USP12/1	0.55	0.75	1	H mts.	11	10	10	8	7	6	4
USP12/2	1.10	1.50	2		21	20	20	17	14	12	8
USP12/3	1.50	2.00	3		32	31	30	26	22	17	13
USP12/4	2.20	3.00	4		42	41	40	34	29	23	17
USP12/5	2.20	3.00	5		52	51	49	42	36	28	22
USP12/6	3.00	4.00	6		63	61	59	50	43	34	26
USP12/7	3.00	4.00	7		73	71	68	58	50	40	30
USP12/8	4.00	5.50	8		84	82	78	67	58	46	35
USP12/9	4.00	5.50	9		94	92	88	75	64	51	40
USP12/10	5.50	7.50	10		105	102	98	84	72	57	44
USP12/11	5.50	7.50	11		115	112	108	92	78	63	48
USP12/12	5.50	7.50	12		125	122	118	100	86	68	52
USP12/13	5.50	7.50	13		136	133	128	109	93	74	56
USP12/14	7.50	10.0	14		147	143	137	117	100	80	61
USP12/15	7.50	10.0	15		157	153	147	126	108	86	66
USP12/16	7.50	10.0	16		168	164	157	134	114	92	70
USP12/17	7.50	10.0	17		178	174	167	142	122	98	74
USP12/18	7.50	10.0	18		188	183	176	150	128	104	78
USP12/19	9.30	12.5	19		199	193	185	158	136	110	83
USP12/20	9.30	12.5	20		209	204	195	166	143	116	87
USP12/21	9.30	12.5	21		220	214	205	174	150	122	92
USP12/22	9.30	12.5	22		230	224	215	183	157	127	97

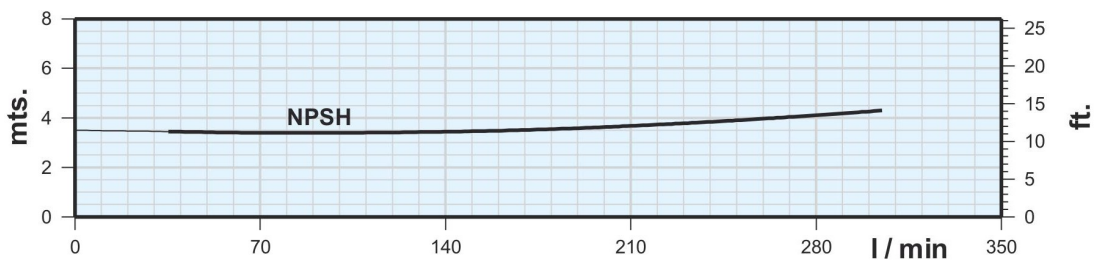
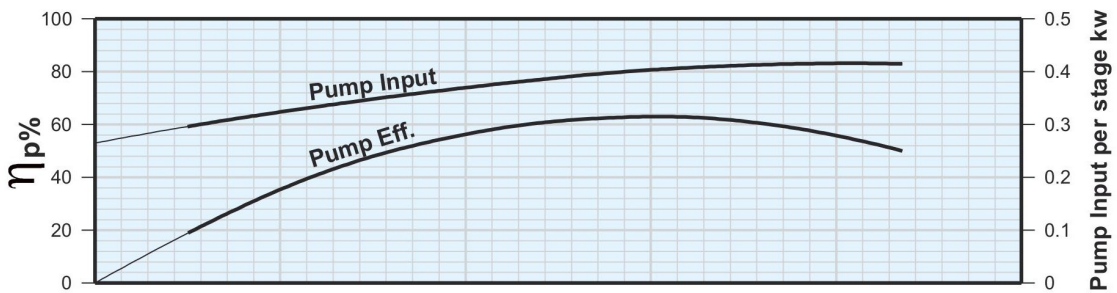
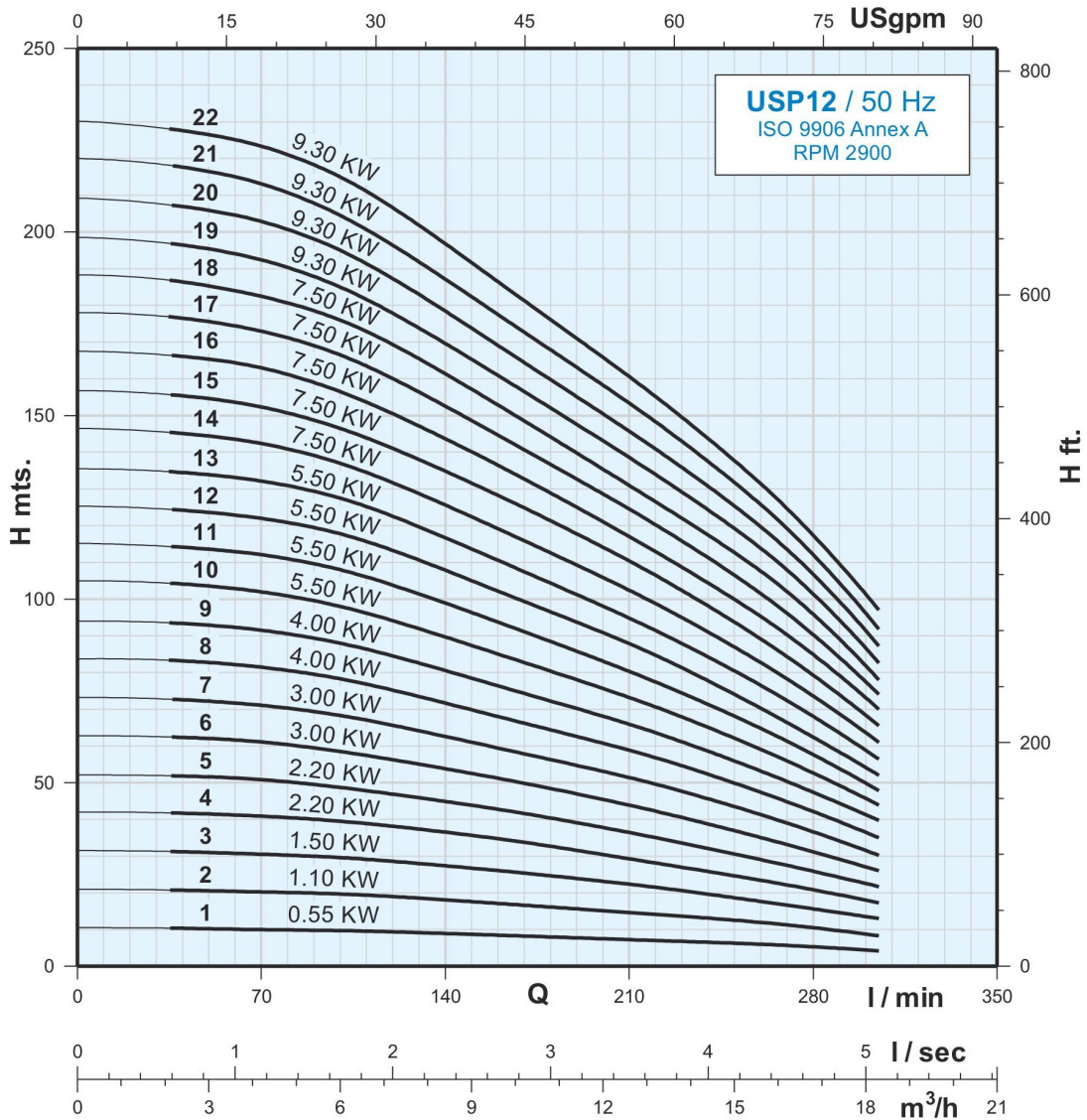


Dimensions & Weights

Model Name	Motor Joining Size	ØE (mm)	L (mm)	Pump Gross Weight (kg)	Pump Gross Volume (m ³)
USP12/1	4"	131	434	12.9	0.0125
USP12/2	4"	131	494	13.7	0.0143
USP12/3	4"	131	554	14.5	0.0160
USP12/4	4"	131	614	15.3	0.0177
USP12/5	4"	131	674	16.1	0.0195
USP12/6	4"	131	734	16.9	0.0212
USP12/7	4"	131	794	17.7	0.0229
USP12/8	4"	131	854	18.5	0.0247
USP12/9	4"	131	914	19.3	0.0264
USP12/10	4"	131	974	20.1	0.0281
USP12/11	4"	131	1034	20.9	0.0299
USP12/12	4"	131	1094	21.7	0.0316
USP12/13	4"	131	1154	22.5	0.0333
USP12/14	4"	131	1214	23.3	0.0351
USP12/15	4"	131	1274	24.1	0.0368
USP12/16	4"	131	1334	25.0	0.0385
USP12/17	4"	131	1394	25.8	0.0403
USP12/18	4"	131	1454	26.6	0.0420
USP12/14	6"	142	1214	23.3	0.0351
USP12/15	6"	142	1274	24.1	0.0368
USP12/16	6"	142	1334	25.0	0.0385
USP12/17	6"	142	1394	25.8	0.0403
USP12/18	6"	142	1454	26.6	0.0420
USP12/19	6"	142	1514	27.4	0.0437
USP12/20	6"	142	1574	28.2	0.0455
USP12/21	6"	142	1634	29.0	0.0472
USP12/22	6"	142	1694	29.8	0.0489



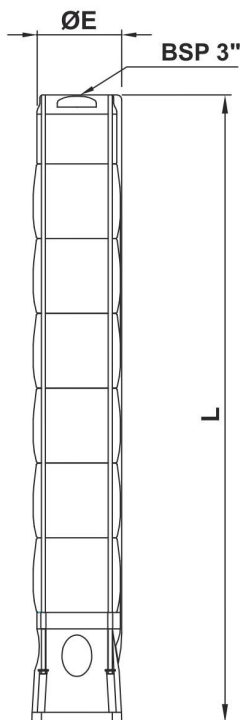
Performance Curve





Performance Table

Model Name	kW	HP	Stage	Q	n = 2900 rpm						
				m ³ /h	0	4	6	10	13	16	18.3
				L/min	0	67	100	167	217	267	305
USP12/23	11.0	15.0	23	H mts.	240	234	225	191	167	139	101
USP12/24	11.0	15.0	24		251	245	235	200	174	145	105
USP12/25	11.0	15.0	25		261	255	244	209	181	151	110
USP12/26	11.0	15.0	26		272	265	254	217	188	157	114
USP12/27	13.0	17.5	27		282	275	264	225	195	163	119
USP12/28	13.0	17.5	28		293	285	274	234	203	169	123
USP12/29	13.0	17.5	29		303	295	284	242	210	175	128
USP12/30	13.0	17.5	30		314	306	294	251	217	181	132
USP12/31	13.0	17.5	31		325	317	304	259	224	187	137
USP12/32	15.0	20.0	32		335	327	314	267	231	193	141
USP12/33	15.0	20.0	33		346	337	324	275	238	199	146
USP12/34	15.0	20.0	34		357	347	334	283	245	205	150
USP12/35	15.0	20.0	35		368	357	344	291	252	211	155
USP12/36	15.0	20.0	36		378	367	354	300	259	217	159
USP12/37	18.5	25.0	37		388	378	364	309	266	223	164
USP12/38	18.5	25.0	38		398	388	374	317	273	229	168
USP12/39	18.5	25.0	39		409	398	383	325	280	235	173
USP12/40	18.5	25.0	40		419	408	393	333	288	241	177
USP12/41	18.5	25.0	41		430	418	402	342	296	247	182
USP12/42	18.5	25.0	42		440	428	412	350	303	253	186
USP12/43	18.5	25.0	43		450	438	422	359	310	259	191
USP12/44	18.5	25.0	44		460	448	432	368	317	265	195

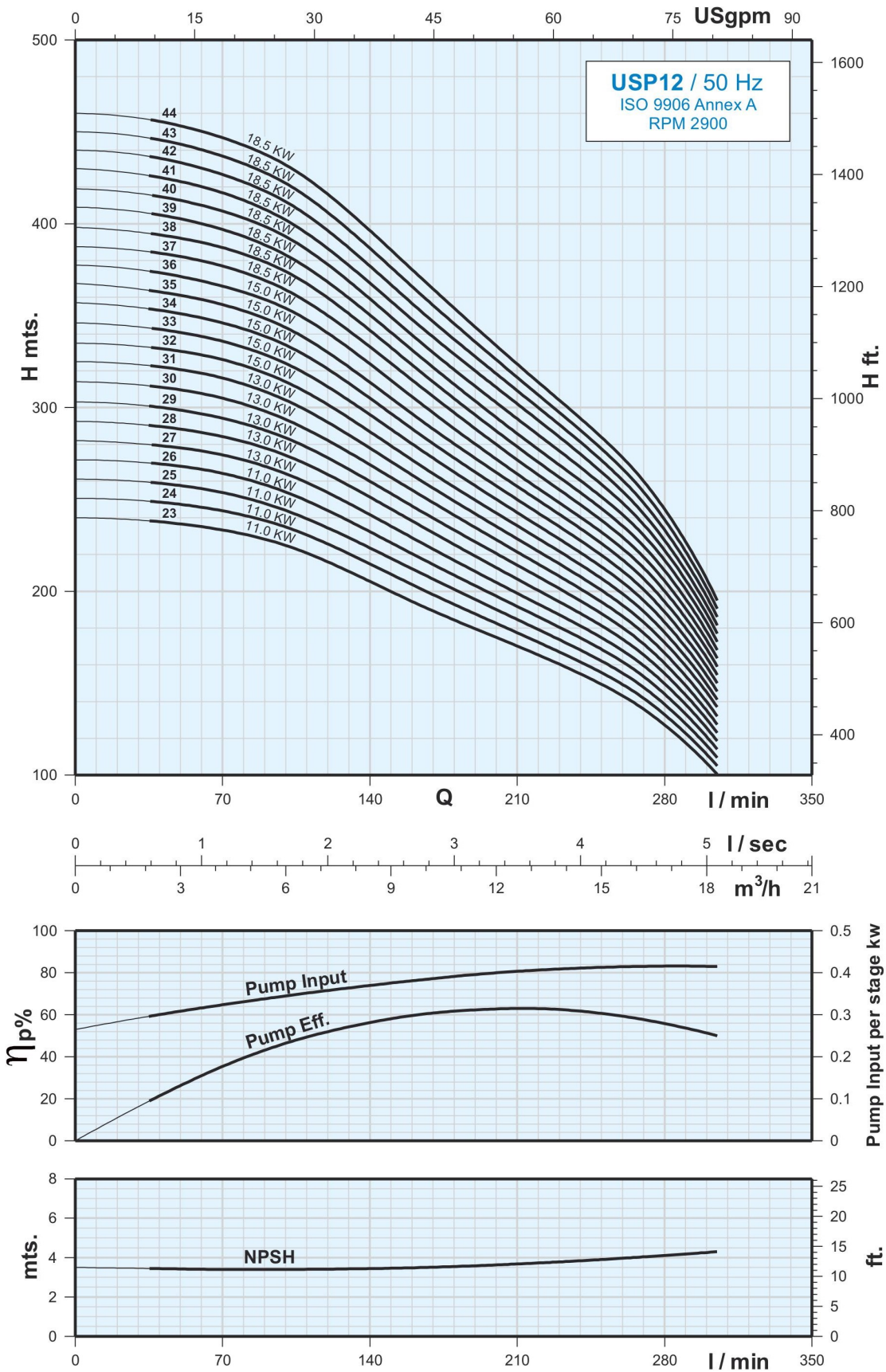


Dimensions & Weights

Model Name	Motor Joining Size	ØE (mm)	L (mm)	Pump Gross Weight (kg)	Pump Gross Volume (m ³)
USP12/23	6"	142	1754	30.6	0.0507
USP12/24	6"	142	1814	31.4	0.0524
USP12/25	6"	142	1874	32.2	0.0480
USP12/26	6"	142	1934	33.0	0.0495
USP12/27	6"	142	1994	33.8	0.0510
USP12/28	6"	142	2054	34.6	0.0526
USP12/29	6"	142	2114	35.4	0.0541
USP12/30	6"	142	2174	36.2	0.0557
USP12/31	6"	142	2234	37.0	0.0572
USP12/32	6"	142	2294	37.8	0.0587
USP12/33	6"	142	2354	38.6	0.0603
USP12/34	6"	142	2414	39.4	0.0618
USP12/35	6"	142	2474	40.3	0.0633
USP12/36	6"	142	2534	41.1	0.0649
USP12/37	6"	142	2594	41.9	0.0664
USP12/38	6"	142	2654	42.7	0.0679
USP12/39	6"	142	2714	43.5	0.0695
USP12/40	6"	142	2774	44.3	0.0710
USP12/41	6"	142	2954	46.7	0.0756
USP12/42	6"	142	3074	48.3	0.0787
USP12/43	6"	142	3254	50.7	0.0833
USP12/44	6"	142	3434	53.1	0.0879



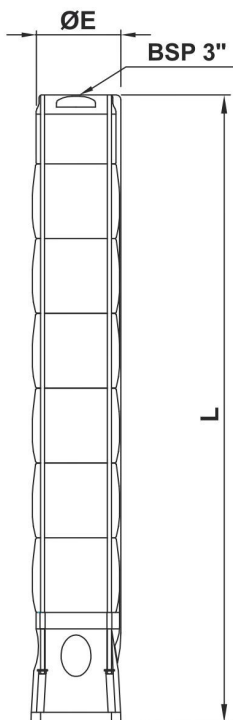
Performance Curve





Performance Table

Model Name	kW	HP	Stage	Q	n = 2900 rpm						
				m ³ /h	0	10	11	12	14	16	18
				L/min	0	167	183	200	233	267	300
USP14A/1	0.55	0.75	1	H mts.	11	9	9	9	8	7	6
USP14A/2	1.10	1.50	2		21	18	18	17	16	14	12
USP14A/3	1.50	2.00	3		32	28	27	26	24	21	18
USP14A/4	2.20	3.00	4		42	37	35	34	31	28	24
USP14A/5	2.20	3.00	5		53	46	44	43	39	35	30
USP14A/6	3.00	4.00	6		63	55	53	51	47	42	36
USP14A/7	3.00	4.00	7		74	64	62	60	55	49	42
USP14A/8	4.00	5.50	8		84	74	71	68	63	56	48
USP14A/9	4.00	5.50	9		95	83	80	77	71	63	54
USP14A/10	5.50	7.50	10		105	92	89	85	79	70	60
USP14A/11	5.50	7.50	11		116	101	98	94	86	78	66
USP14A/12	5.50	7.50	12		126	110	106	102	94	85	72
USP14A/13	7.50	10.0	13		137	120	115	111	102	92	78
USP14A/14	7.50	10.0	14		147	129	124	119	110	99	84
USP14A/15	7.50	10.0	15		158	138	133	128	118	106	90
USP14A/16	7.50	10.0	16		168	147	142	136	126	113	96
USP14A/17	9.30	12.5	17		179	156	151	145	133	120	102
USP14A/18	9.30	12.5	18		189	166	160	153	141	127	108
USP14A/19	9.30	12.5	19		200	175	168	162	149	134	114
USP14A/20	9.30	12.5	20		210	184	177	170	157	141	120
USP14A/21	11.0	15.0	21		221	193	186	179	165	148	126
USP14A/22	11.0	15.0	22		231	202	195	187	173	155	132



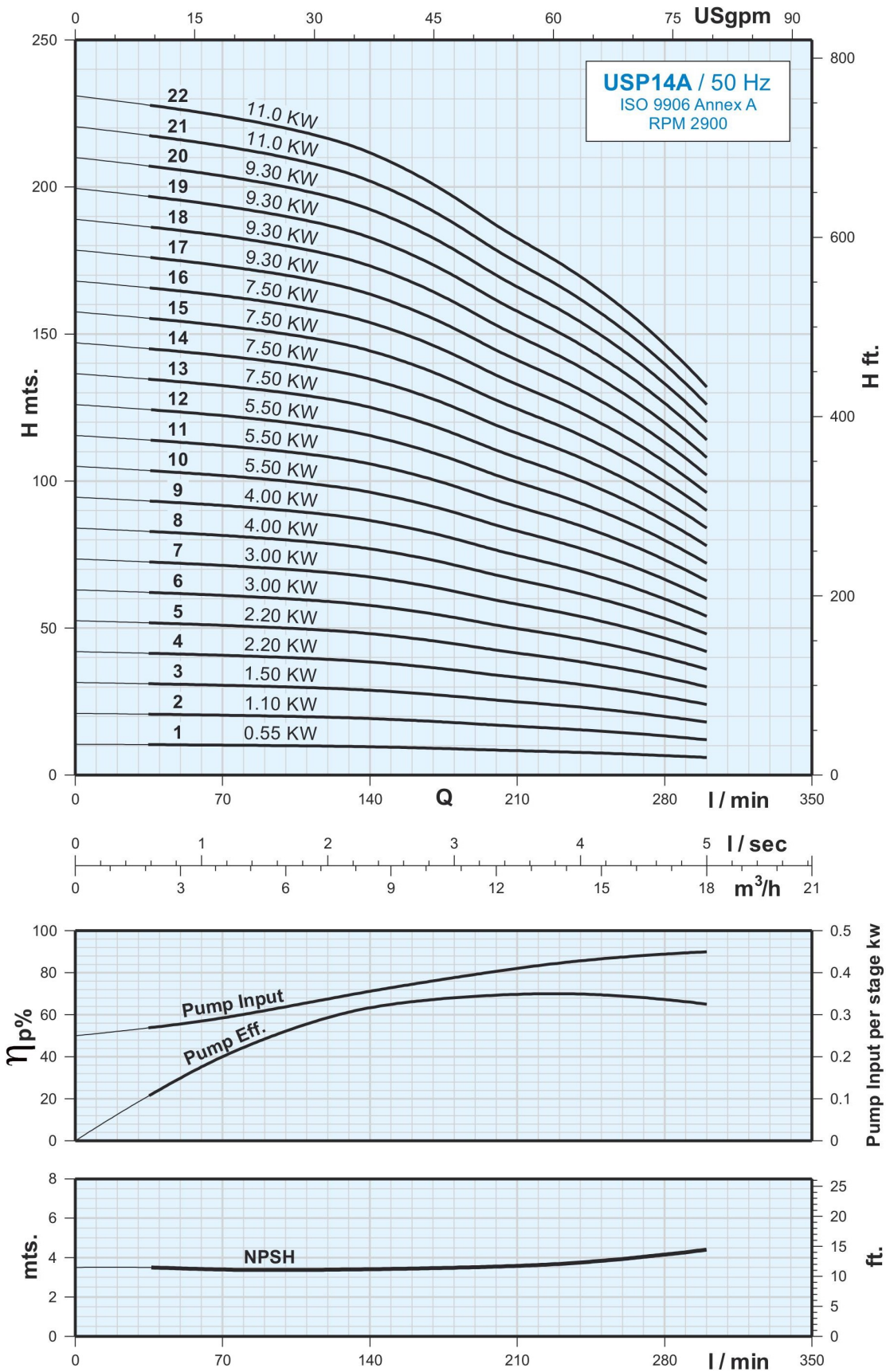
Dimensions & Weights

Model Name	Motor Joining Size	ØE (mm)	L (mm)	Pump Gross Weight (kg)	Pump Gross Volume (m ³)
USP14/1	4"	131	434	12.9	0.0125
USP14/2	4"	131	494	13.7	0.0143
USP14/3	4"	131	554	14.5	0.0160
USP14/4	4"	131	614	15.3	0.0177
USP14/5	4"	131	674	16.1	0.0195
USP14/6	4"	131	734	16.9	0.0212
USP14/7	4"	131	794	17.7	0.0229
USP14/8	4"	131	854	18.5	0.0247
USP14/9	4"	131	914	19.3	0.0264
USP14/10	4"	131	974	20.1	0.0281
USP14/11	4"	131	1034	20.9	0.0299
USP14/12	4"	131	1094	21.7	0.0316
USP14/13	4"	131	1154	21.7	0.0333
USP14/14	4"	131	1214	22.5	0.0351
USP14/15	4"	131	1274	23.3	0.0368
USP14/16	4"	131	1334	24.1	0.0385
USP14/13	6"	142	1154	22.5	0.0333
USP14/14	6"	142	1214	23.3	0.0351
USP14/15	6"	142	1274	24.1	0.0368
USP14/16	6"	142	1334	25.0	0.0385
USP14/17	6"	142	1394	25.8	0.0403
USP14/18	6"	142	1454	26.6	0.0420
USP14/19	6"	142	1514	27.4	0.0437
USP14/20	6"	142	1574	28.2	0.0455
USP14/21	6"	142	1634	29.0	0.0472
USP14/22	6"	142	1694	29.8	0.0489



6" USP14A

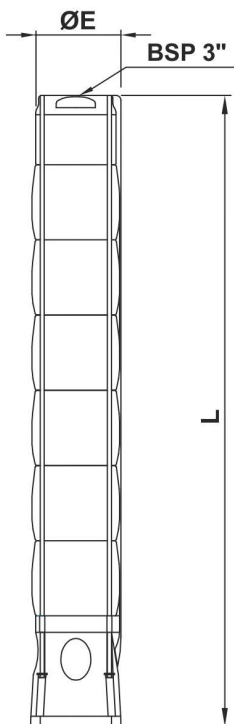
Performance Curve





Performance Table

Model Name	kW	HP	Stage	Q	n = 2900 rpm						
				m ³ /h	0	10	11	12	14	16	18
				L/min	0	167	183	200	233	267	300
USP14A/23	11.0	15.0	23	H mts.	242	211	204	196	181	162	138
USP14A/24	11.0	15.0	24		252	221	213	204	188	169	144
USP14A/25	13.0	17.5	25		263	230	222	213	196	176	150
USP14A/26	13.0	17.5	26		273	239	230	221	204	183	156
USP14A/27	13.0	17.5	27		284	248	239	230	212	190	162
USP14A/28	13.0	17.5	28		294	257	248	238	220	197	168
USP14A/29	15.0	20.0	29		305	267	257	247	228	204	174
USP14A/30	15.0	20.0	30		315	276	266	255	236	211	180
USP14A/31	15.0	20.0	31		326	285	275	264	243	218	186
USP14A/32	15.0	20.0	32		336	294	284	272	251	225	192
USP14A/33	15.0	20.0	33		347	303	293	281	259	233	198
USP14A/34	18.5	25.0	34		357	313	301	289	267	240	204
USP14A/35	18.5	25.0	35		368	322	310	298	275	247	210
USP14A/36	18.5	25.0	36		378	331	319	306	283	254	216
USP14A/37	18.5	25.0	37		389	340	328	315	290	261	222
USP14A/38	18.5	25.0	38		399	349	337	323	298	268	228
USP14A/39	18.5	25.0	39		410	359	346	332	306	275	234
USP14A/40	18.5	25.0	40		420	368	355	340	314	282	240
USP14A/41	22.0	30.0	41		431	377	363	349	322	289	246
USP14A/42	22.0	30.0	42		441	386	372	357	330	296	252
USP14A/43	22.0	30.0	43	452	395	381	366	338	303	258	
USP14A/44	22.0	30.0	44	462	405	390	374	345	310	264	



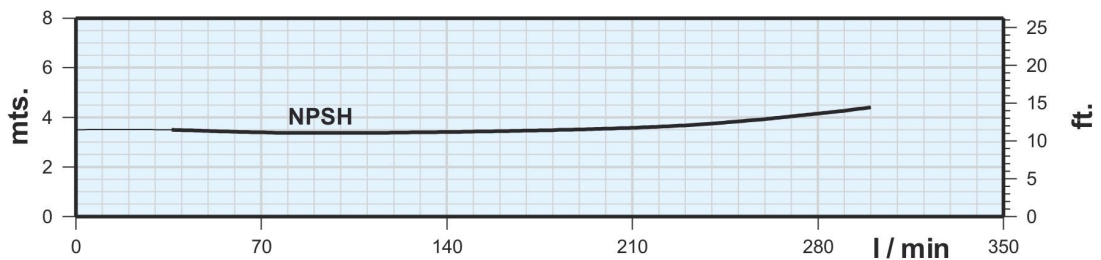
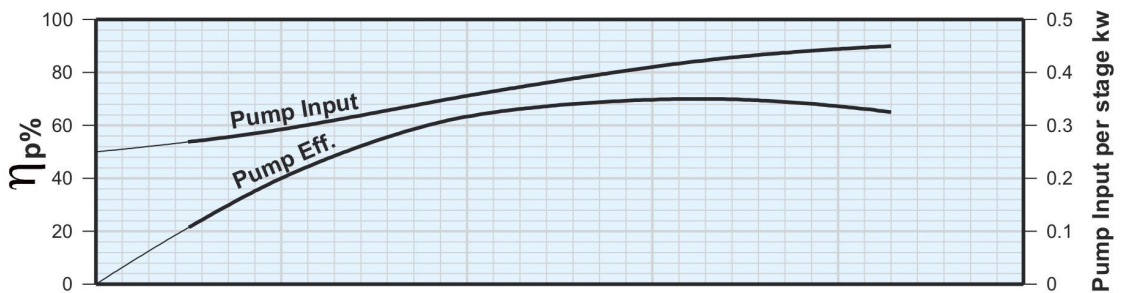
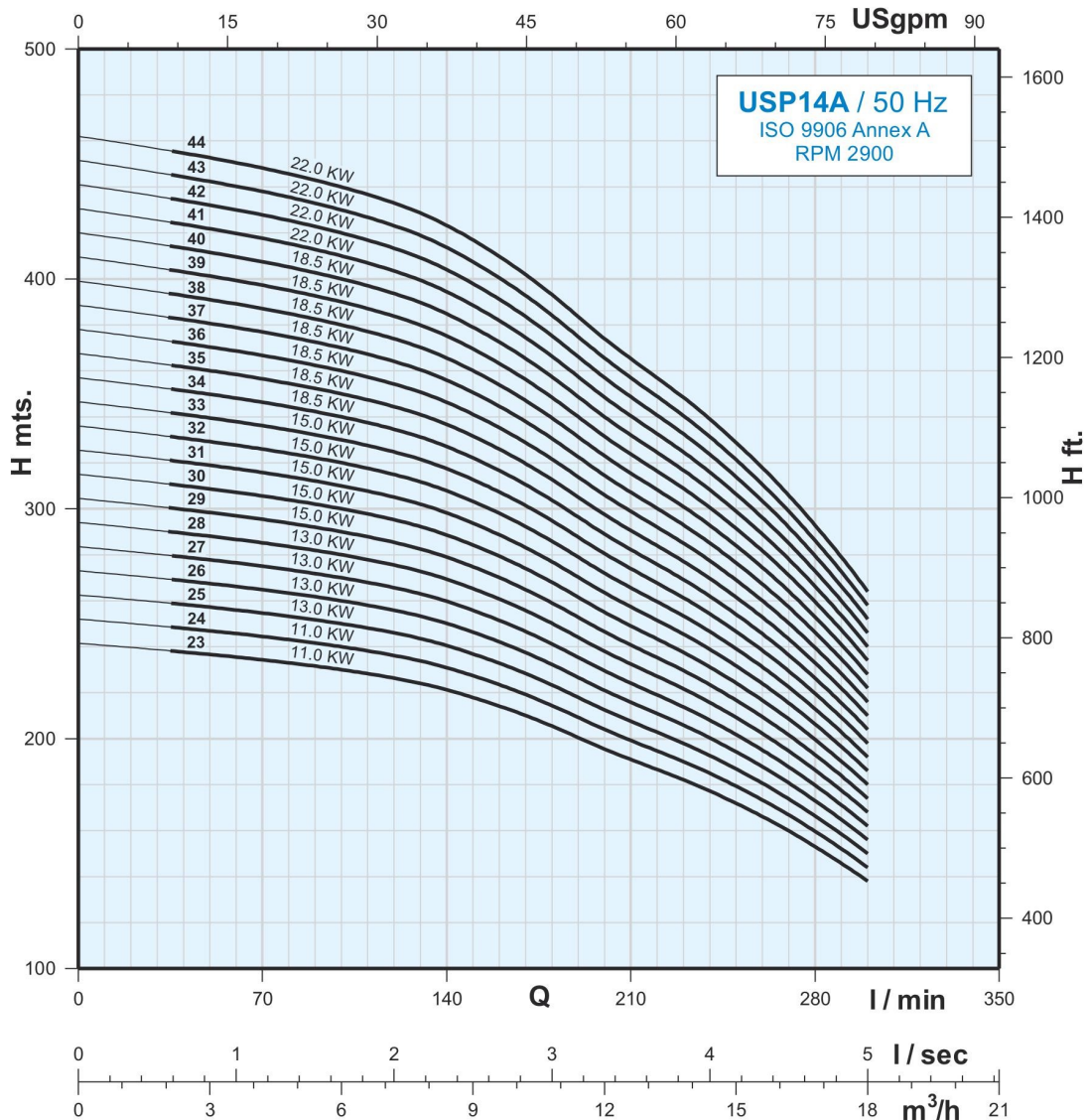
Dimensions & Weights

Model Name	Motor Joining Size	ØE (mm)	L (mm)	Pump Gross Weight (kg)	Pump Gross Volume (m ³)
USP14A/23	6"	142	1754	30.6	0.0507
USP14A/24	6"	142	1814	31.4	0.0524
USP14A/25	6"	142	1874	32.2	0.0480
USP14A/26	6"	142	1934	33.0	0.0495
USP14A/27	6"	142	1994	33.8	0.0510
USP14A/28	6"	142	2054	34.6	0.0526
USP14A/29	6"	142	2114	35.4	0.0541
USP14A/30	6"	142	2174	36.2	0.0557
USP14A/31	6"	142	2234	37.0	0.0572
USP14A/32	6"	142	2294	37.8	0.0587
USP14A/33	6"	142	2354	38.6	0.0603
USP14A/34	6"	142	2414	39.4	0.0618
USP14A/35	6"	142	2474	40.3	0.0633
USP14A/36	6"	142	2534	41.1	0.0649
USP14A/37	6"	142	2594	41.9	0.0664
USP14A/38	6"	142	2654	42.7	0.0679
USP14A/39	6"	142	2714	43.5	0.0695
USP14A/40	6"	142	2774	44.3	0.0710
USP14A/41	6"	142	2954	46.7	0.0756
USP14A/42	6"	142	3074	48.3	0.0787
USP14A/43	6"	142	3254	50.7	0.0833
USP14A/44	6"	142	3434	53.1	0.0879



6" USP14A

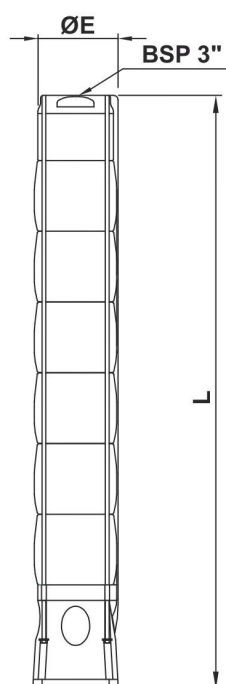
Performance Curve





Performance Table

Model Name	kW	HP	Stage	Q	n = 2900 rpm						
				m ³ /h	0	4	8	12	16	20	22.1
				L/min	0	67	133	200	267	333	369
USP17/1	0.55	0.75	1	H mts.	12	11	10	9	7	5	4
USP17/2	1.10	1.50	2		23	22	21	19	16	11	9
USP17/3	2.20	3.00	3		34	34	32	30	25	19	15
USP17/4	2.20	3.00	4		45	44	43	39	33	24	19
USP17/5	3.00	4.00	5		56	56	54	49	41	31	24
USP17/6	4.00	5.50	6		68	67	65	59	50	38	31
USP17/7	4.00	5.50	7		78	78	75	68	58	44	34
USP17/8	5.50	7.50	8		91	90	87	80	68	52	42
USP17/9	5.50	7.50	9		101	101	97	89	76	58	46
USP17/10	5.50	7.50	10		112	111	107	98	83	63	50
USP17/11	7.50	10.0	11		124	123	120	110	94	72	57
USP17/12	7.50	10.0	12		135	134	130	119	101	78	62
USP17/13	7.50	10.0	13		145	144	140	128	109	82	65
USP17/14	9.30	12.5	14		157	157	152	139	119	91	73
USP17/15	9.30	12.5	15		168	167	162	148	127	96	77
USP17/16	9.30	12.5	16		179	178	172	158	134	102	81
USP17/17	9.30	12.5	17		189	188	182	167	141	107	84
USP17/18	11.0	15.0	18		202	200	194	179	153	116	92
USP17/19	11.0	15.0	19		213	211	204	188	160	121	96
USP17/20	11.0	15.0	20		224	221	214	196	166	127	100
USP17/21	13.0	17.5	21		236	234	227	210	179	137	110

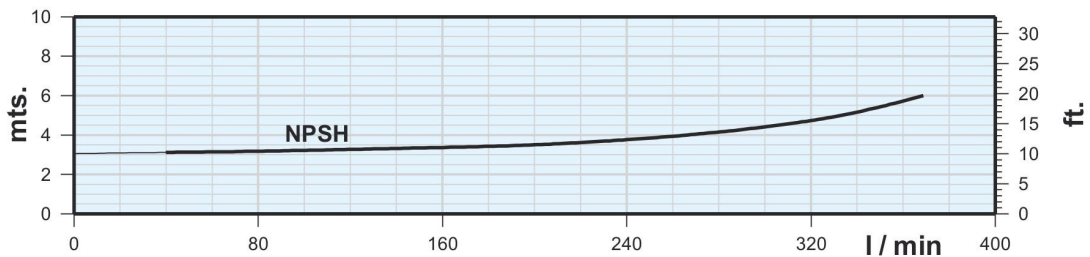
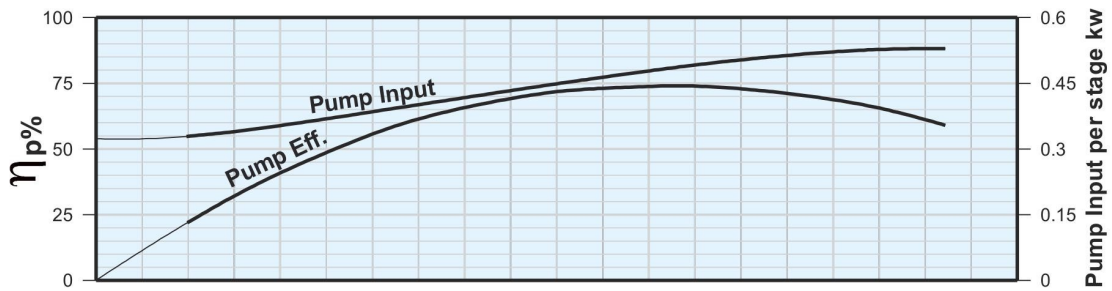
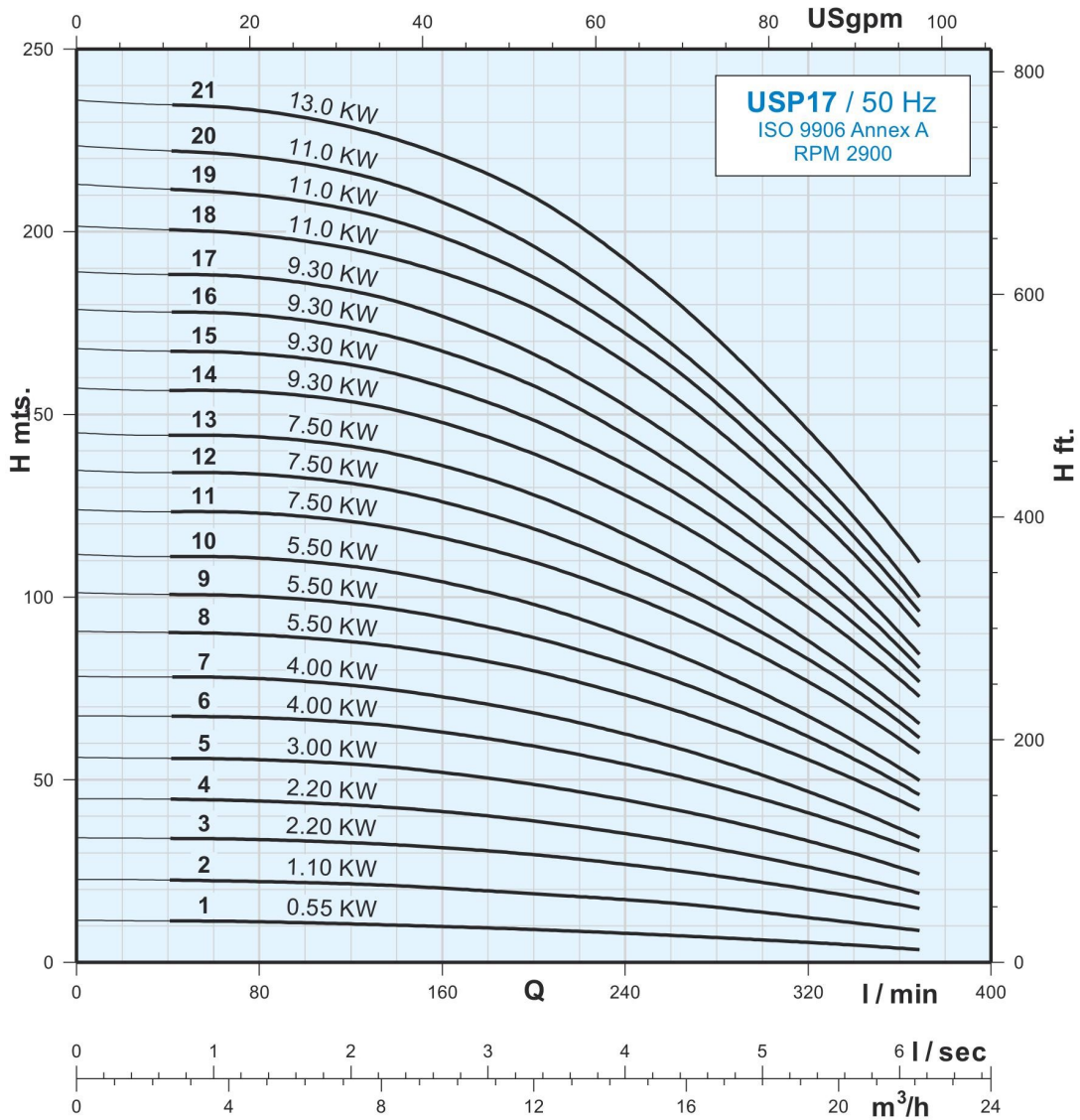


Dimensions & Weights

Model Name	Motor Joining Size	ØE (mm)	L (mm)	Pump Gross Weight (kg)	Pump Gross Volume (m ³)
USP17/1	4"	131	434	12.9	0.0125
USP17/2	4"	131	494	13.7	0.0143
USP17/3	4"	131	554	14.5	0.0160
USP17/4	4"	131	614	15.3	0.0177
USP17/5	4"	131	674	16.1	0.0195
USP17/6	4"	131	734	16.9	0.0212
USP17/7	4"	131	794	17.7	0.0229
USP17/8	4"	131	854	18.5	0.0247
USP17/9	4"	131	914	19.3	0.0264
USP17/10	4"	131	974	20.1	0.0281
USP17/11	4"	131	1034	20.9	0.0299
USP17/12	4"	131	1094	21.7	0.0316
USP17/13	4"	131	1154	22.5	0.0333
USP17/11	6"	142	1034	20.9	0.0299
USP17/12	6"	142	1094	21.7	0.0316
USP17/13	6"	142	1154	22.5	0.0333
USP17/14	6"	142	1214	23.3	0.0351
USP17/15	6"	142	1274	24.1	0.0368
USP17/16	6"	142	1334	25.0	0.0385
USP17/17	6"	142	1394	25.8	0.0403
USP17/18	6"	142	1454	26.6	0.0420
USP17/19	6"	142	1514	27.4	0.0437
USP17/20	6"	142	1574	28.2	0.0455
USP17/21	6"	142	1634	29.0	0.0472



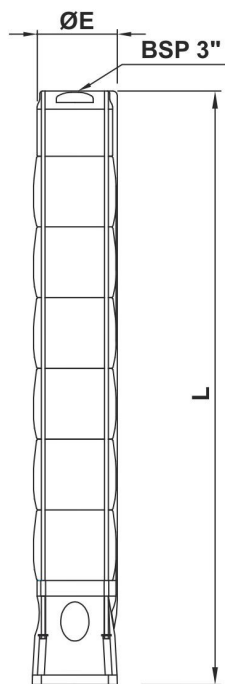
Performance Curve





Performance Table

Model Name	kW	HP	Stage	Q	n = 2900 rpm						
				m ³ /h	0	4	8	12	16	20	22.1
				L/min	0	67	133	200	267	333	369
USP17/22	13.0	17.5	22	H mts.	245	244	238	218	185	142	113
USP17/23	13.0	17.5	23		257	256	248	227	193	147	117
USP17/24	13.0	17.5	24		267	266	258	236	200	152	120
USP17/25	15.0	20.0	25		280	280	270	249	212	162	130
USP17/26	15.0	20.0	26		291	289	280	258	220	167	134
USP17/27	15.0	20.0	27		301	299	290	267	227	172	137
USP17/28	18.5	25.0	28		315	314	305	280	240	185	150
USP17/29	18.5	25.0	29		326	324	315	290	249	191	154
USP17/30	18.5	25.0	30		337	335	325	300	256	196	158
USP17/31	18.5	25.0	31		347	346	335	309	263	202	162
USP17/32	18.5	25.0	32		358	357	346	318	271	207	166
USP17/33	18.5	25.0	33		369	368	356	327	280	212	169
USP17/34	22.0	30.0	34		382	380	370	340	291	223	179
USP17/35	22.0	30.0	35		393	391	380	350	299	228	183
USP17/36	22.0	30.0	36		404	402	390	359	306	234	187
USP17/37	22.0	30.0	37		413	412	400	368	313	240	190
USP17/38	22.0	30.0	38		424	422	410	376	321	245	194
USP17/39	22.0	30.0	39		435	434	420	385	329	250	198
USP17/40	22.0	30.0	40		446	444	430	394	335	255	202
USP17/43	26.0	35.0	43		482	480	465	429	366	280	223
USP17/45	26.0	35.0	45		503	501	485	446	381	290	230
USP17/48	26.0	35.0	48		535	533	515	473	403	305	243
USP17/51	30.0	40.0	51		567	565	549	503	430	330	262
USP17/53	30.0	40.0	53		588	586	569	521	445	340	270
USP17/55	37.0	50.0	55		617	616	599	553	475	367	295
USP17/58	37.0	50.0	58		650	648	630	580	498	384	309
USP17/60	37.0	50.0	60		671	670	651	600	513	395	317

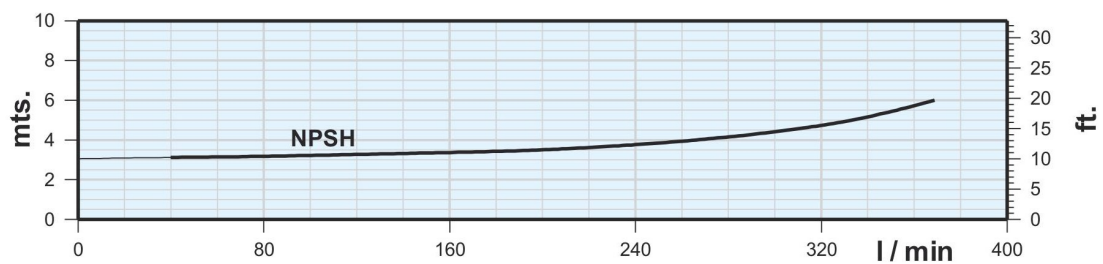
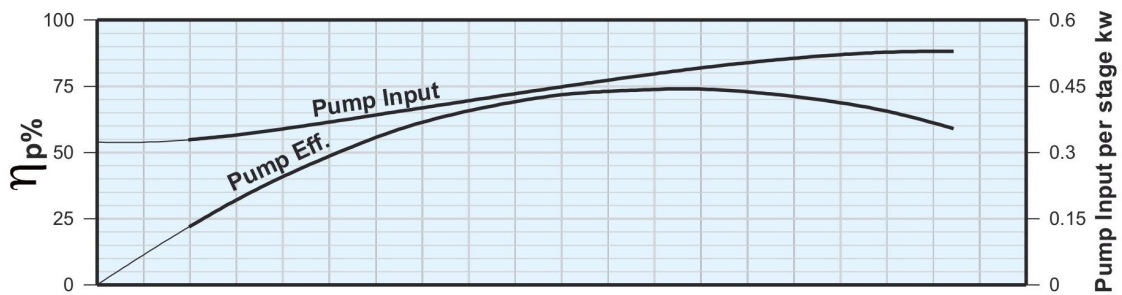
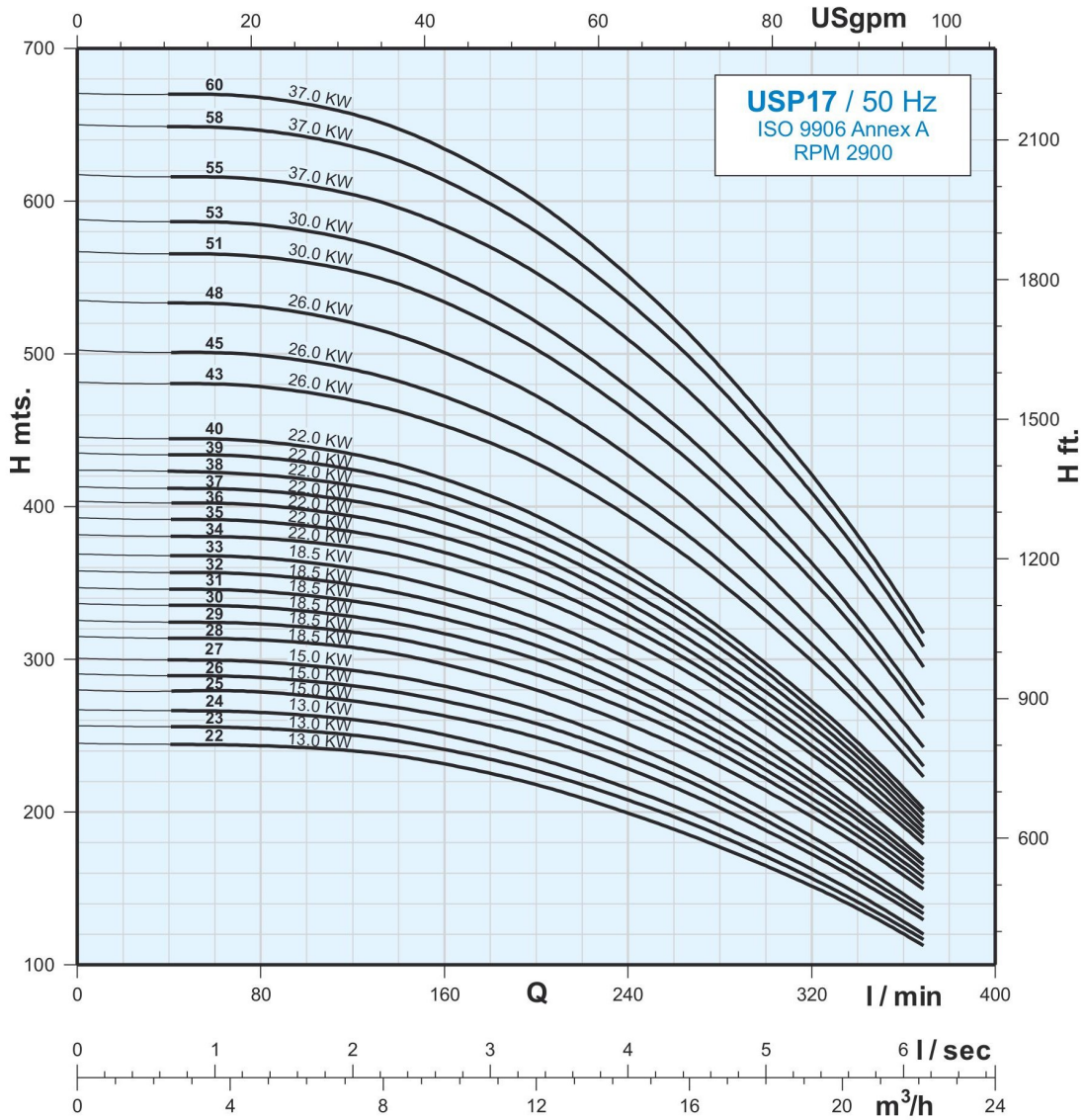


Dimensions & Weights

Model Name	Motor Joining Size	ØE (mm)	L (mm)	Pump Gross Weight (kg)	Pump Gross Volume (m ³)
USP17/22	6"	142	1694	29.8	0.0489
USP17/23	6"	142	1754	30.6	0.0507
USP17/24	6"	142	1814	31.4	0.0524
USP17/25	6"	142	1874	32.2	0.0480
USP17/26	6"	142	1934	33.0	0.0495
USP17/27	6"	142	1994	33.8	0.0510
USP17/28	6"	142	2054	34.6	0.0526
USP17/29	6"	142	2114	35.4	0.0541
USP17/30	6"	142	2174	36.2	0.0557
USP17/31	6"	142	2234	37.0	0.0572
USP17/32	6"	142	2294	37.8	0.0587
USP17/33	6"	142	2354	38.6	0.0603
USP17/34	6"	142	2414	39.4	0.0618
USP17/35	6"	142	2474	40.3	0.0633
USP17/36	6"	142	2534	41.1	0.0649
USP17/37	6"	142	2594	41.9	0.0664
USP17/38	6"	142	2654	42.7	0.0679
USP17/39	6"	142	2714	43.5	0.0695
USP17/40	6"	142	2774	44.3	0.0710
USP17/43	6"	142	2954	46.7	0.0756
USP17/45	6"	142	3074	48.3	0.0787
USP17/48	6"	142	3254	50.7	0.0833
USP17/51	6"	142	3434	53.1	0.0879
USP17/53	6"	142	3554	54.8	0.0910
USP17/55	6"	142	3674	56.4	0.0941
USP17/58	6"	142	3854	58.8	0.0987
USP17/60	6"	142	3974	60.4	0.1017



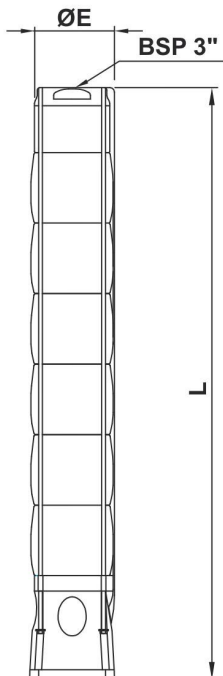
Performance Curve





Performance Table

Model Name	kW	HP	Stage	Q	n = 2900 rpm						
				m ³ /h	0	7.9	16	24	28	32	39
				L/min	0	133	267	400	467	533	650
USP30/1	1.10	1.50	1	H mts.	12	11	10	8	7	6	3
USP30/2	2.20	3.00	2		23	23	20	17	16	13	8
USP30/3	3.00	4.00	3		35	34	30	26	24	20	12
USP30/4	4.00	5.50	4		46	45	40	35	32	27	16
USP30/5	5.50	7.50	5		58	56	51	45	41	35	22
USP30/6	5.50	7.50	6		69	67	60	53	48	41	26
USP30/7	7.50	10.0	7		81	78	71	62	57	49	31
USP30/8	7.50	10.0	8		91	89	81	71	64	55	35
USP30/9	9.30	12.5	9		103	101	91	80	73	63	40
USP30/10	9.30	12.5	10		114	111	100	88	80	69	43
USP30/11	9.30	12.5	11		125	122	110	96	87	75	46
USP30/12	11.0	15.0	12		137	133	120	106	96	83	52
USP30/13	11.0	15.0	13		148	144	130	114	103	89	55
USP30/14	13.0	17.5	14		160	156	141	125	113	98	61
USP30/15	13.0	17.5	15		171	167	150	133	121	103	64
USP30/16	15.0	20.0	16		183	179	162	143	130	113	71
USP30/17	15.0	20.0	17		194	189	171	150	136	118	74
USP30/18	18.5	25.0	18		207	203	184	163	148	129	82
USP30/19	18.5	25.0	19		218	214	194	170	155	135	85
USP30/20	18.5	25.0	20		229	224	203	179	163	141	90

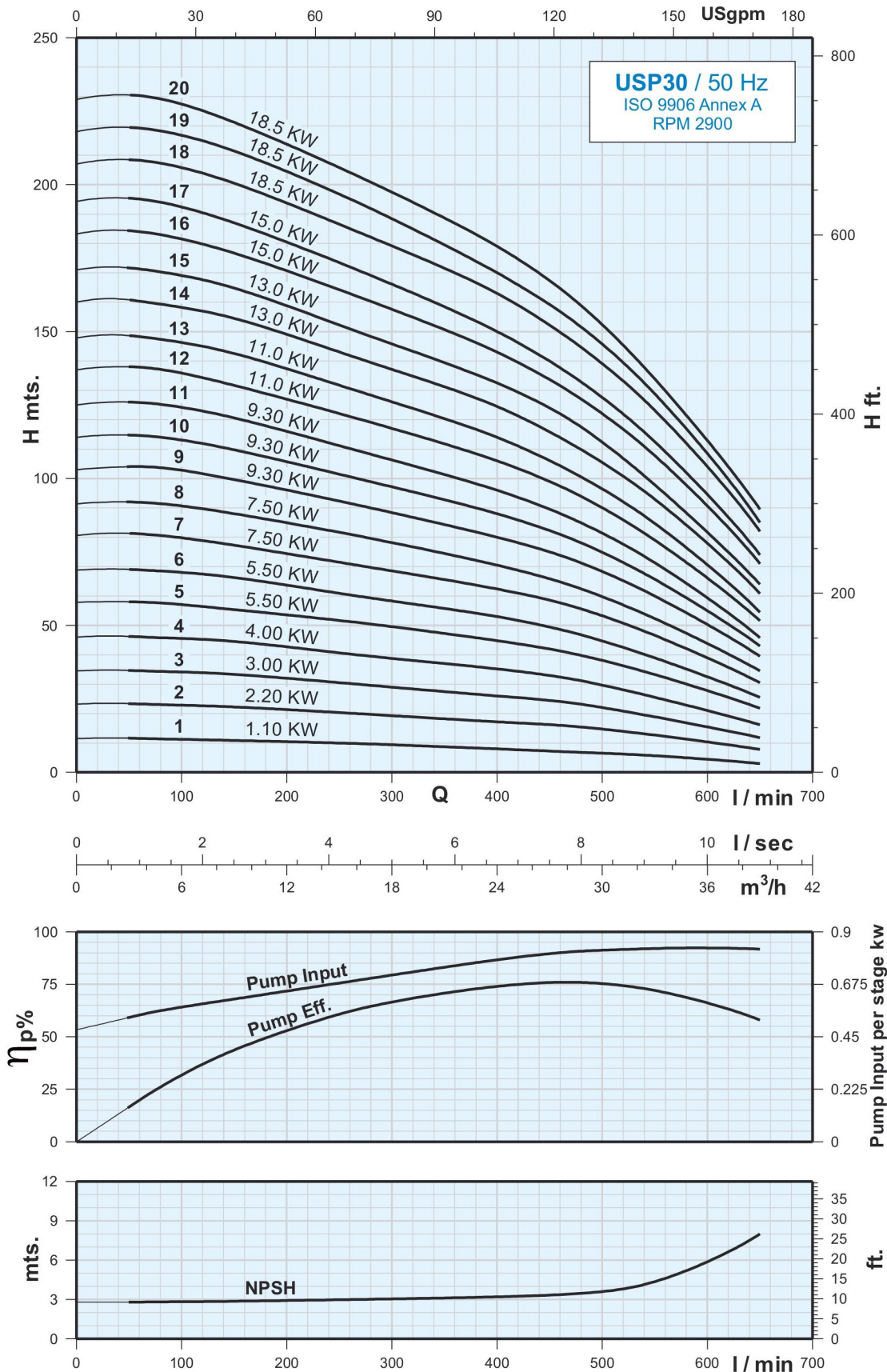


Dimensions & Weights

Model Name	Motor Joining Size	ØE (mm)	L (mm)	Pump Gross Weight (kg)	Pump Gross Volume (m ³)
USP30/1	4"	131	470	12.1	0.0136
USP30/2	4"	131	566	14.0	0.0163
USP30/3	4"	131	662	16.0	0.0191
USP30/4	4"	131	758	17.9	0.0219
USP30/5	4"	131	854	19.8	0.0247
USP30/6	4"	131	950	21.7	0.0274
USP30/7	4"	131	1046	23.6	0.0302
USP30/8	4"	131	1142	25.6	0.0330
USP30/7	6"	142	1046	23.6	0.0302
USP30/8	6"	142	1142	25.6	0.0330
USP30/9	6"	142	1238	27.5	0.0358
USP30/10	6"	142	1334	29.4	0.0385
USP30/11	6"	142	1430	31.3	0.0413
USP30/12	6"	142	1526	33.2	0.0441
USP30/13	6"	142	1622	35.2	0.0468
USP30/14	6"	142	1718	37.1	0.0496
USP30/15	6"	142	1814	39.0	0.0524
USP30/16	6"	142	1910	40.9	0.0489
USP30/17	6"	142	2006	42.8	0.0514
USP30/18	6"	142	2102	44.8	0.0538
USP30/19	6"	142	2198	46.7	0.0563
USP30/20	6"	142	2294	48.6	0.0587



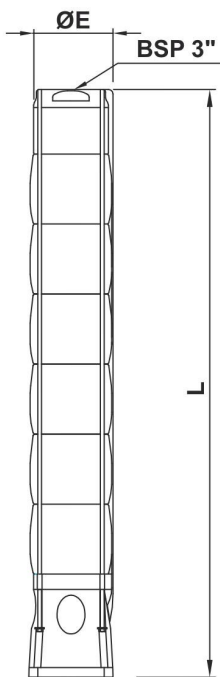
Performance Curve





Performance Table

Model Name	kW	HP	Stage	Q	n = 2900 rpm						
				m ³ /h	0	7.9	16	24	28	32	39
				L/min	0	133	267	400	467	533	650
USP30/21	18.5	25.0	21	H mts.	241	236	214	187	170	147	92
USP30/22	22.0	30.0	22		252	246	223	197	180	157	99
USP30/23	22.0	30.0	23		264	257	233	206	187	162	103
USP30/24	22.0	30.0	24		275	268	242	214	194	168	106
USP30/25	22.0	30.0	25		285	278	250	222	202	174	109
USP30/26	22.0	30.0	26		296	289	260	229	208	179	112
USP30/27	26.0	35.0	27		310	302	274	243	221	190	120
USP30/28	26.0	35.0	28		320	313	283	250	228	197	123
USP30/29	26.0	35.0	29		331	323	293	258	235	204	127
USP30/30	26.0	35.0	30		343	334	301	267	242	209	130
USP30/31	26.0	35.0	31		353	344	310	274	249	214	134
USP30/32	30.0	40.0	32		367	358	324	287	261	225	143
USP30/33	30.0	40.0	33		378	369	337	294	269	231	147
USP30/34	30.0	40.0	34		389	379	343	304	276	238	149
USP30/35	30.0	40.0	35		400	390	352	310	283	244	153
USP30/39	37.0	50.0	39		445	435	395	350	320	278	175
USP30/43	37.0	50.0	43		489	478	432	383	350	301	189
USP30/46	45.0	60.0	46		532	520	475	424	390	340	220
USP30/49	45.0	60.0	49		565	554	504	450	413	360	232

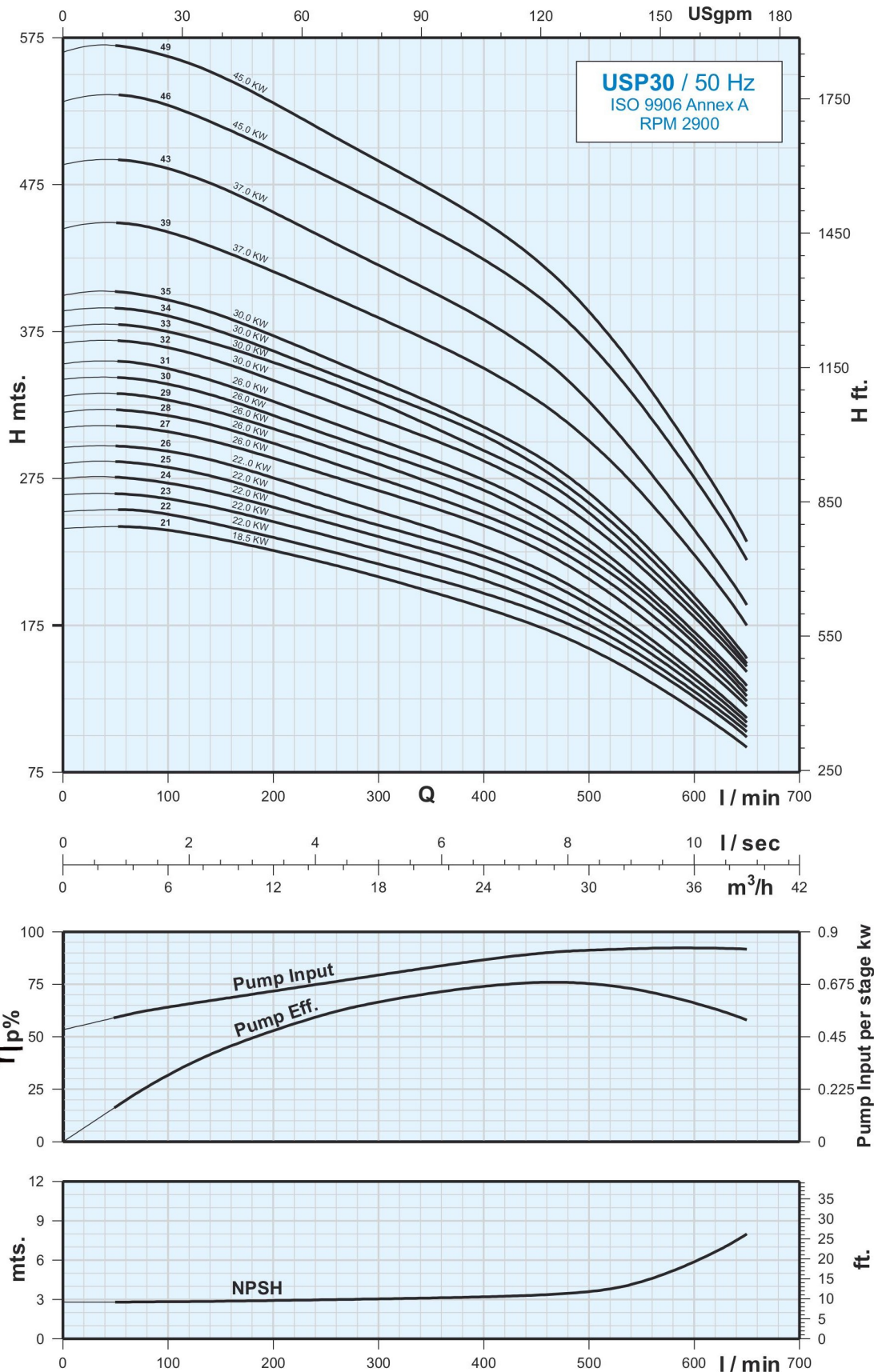


Dimensions & Weights

Model Name	Motor Joining Size	ØE (mm)	L (mm)	Pump Gross Weight (kg)	Pump Gross Volume (m ³)
USP30/21	6"	142	2390	50.5	0.0612
USP30/22	6"	142	2486	52.4	0.0636
USP30/23	6"	142	2582	54.4	0.0661
USP30/24	6"	142	2678	56.3	0.0686
USP30/25	6"	142	2774	58.2	0.0710
USP30/26	6"	142	2870	60.1	0.0735
USP30/27	6"	142	2966	62.0	0.0759
USP30/28	6"	142	3062	64.0	0.0784
USP30/29	6"	142	3158	65.9	0.0808
USP30/30	6"	142	3254	67.8	0.0833
USP30/31	6"	142	3350	69.7	0.0858
USP30/32	6"	142	3446	71.6	0.0882
USP30/33	6"	142	3542	73.6	0.0907
USP30/34	6"	142	3638	75.5	0.0931
USP30/35	6"	142	3734	77.4	0.0956
USP30/39	6"	142	4118	85.1	0.1054
USP30/43	6"	175	4502	92.8	0.1131
USP30/46	8"	190	4790	98.5	0.1189
USP30/49	8"	190	5078	104.3	0.1300



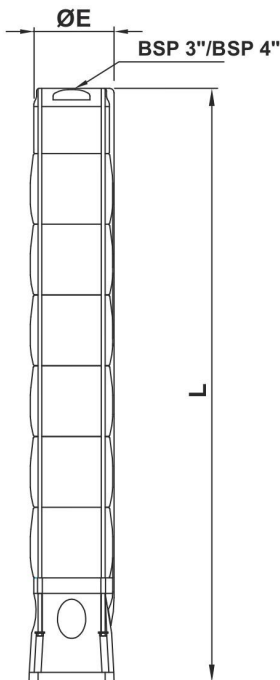
Performance Curve





Performance Table

Model Name	kW	HP	Stage	Q	n = 2900 rpm						
				m ³ /h	0	10	20.2	30	40	50	60
				L/min	0	167	337	500	667	834	1000
USP46/1-B	1.10	1.50	1	H mts.	10	9	8	7	6	4	-
USP46/1	2.20	3.00	1		14	13	12	10	9	7	4
USP46/2-BB	2.20	3.00	2		19	18	17	15	12	8	2
USP46/2	3.00	4.00	2		27	25	24	21	18	14	8
USP46/3-C	4.00	5.50	3		36	34	32	28	24	18	9
USP46/3	5.50	7.50	3		41	40	36	32	28	23	15
USP46/4-C	5.50	7.50	4		49	47	44	39	34	26	15
USP46/4	7.50	10.0	4		54	52	48	44	38	31	20
USP46/5	7.50	10.0	5		67	64	60	54	47	38	24
USP46/6	9.30	12.5	6		81	77	72	65	56	45	30
USP46/7	11.0	15.0	7		94	90	84	76	66	53	35
USP46/8-C	11.0	15.0	8		103	98	91	82	71	56	35
USP46/8	13.0	17.5	8	108	104	96	88	76	62	41	
USP46/9-C	13.0	17.5	9	117	112	104	94	82	65	41	
USP46/9	15.0	20.0	9	122	117	109	99	87	70	47	
USP46/10	15.0	20.0	10	135	129	120	109	95	76	51	
USP46/11	18.5	25.0	11	149	143	133	122	107	86	58	
USP46/12	18.5	25.0	12	162	155	144	132	116	94	63	

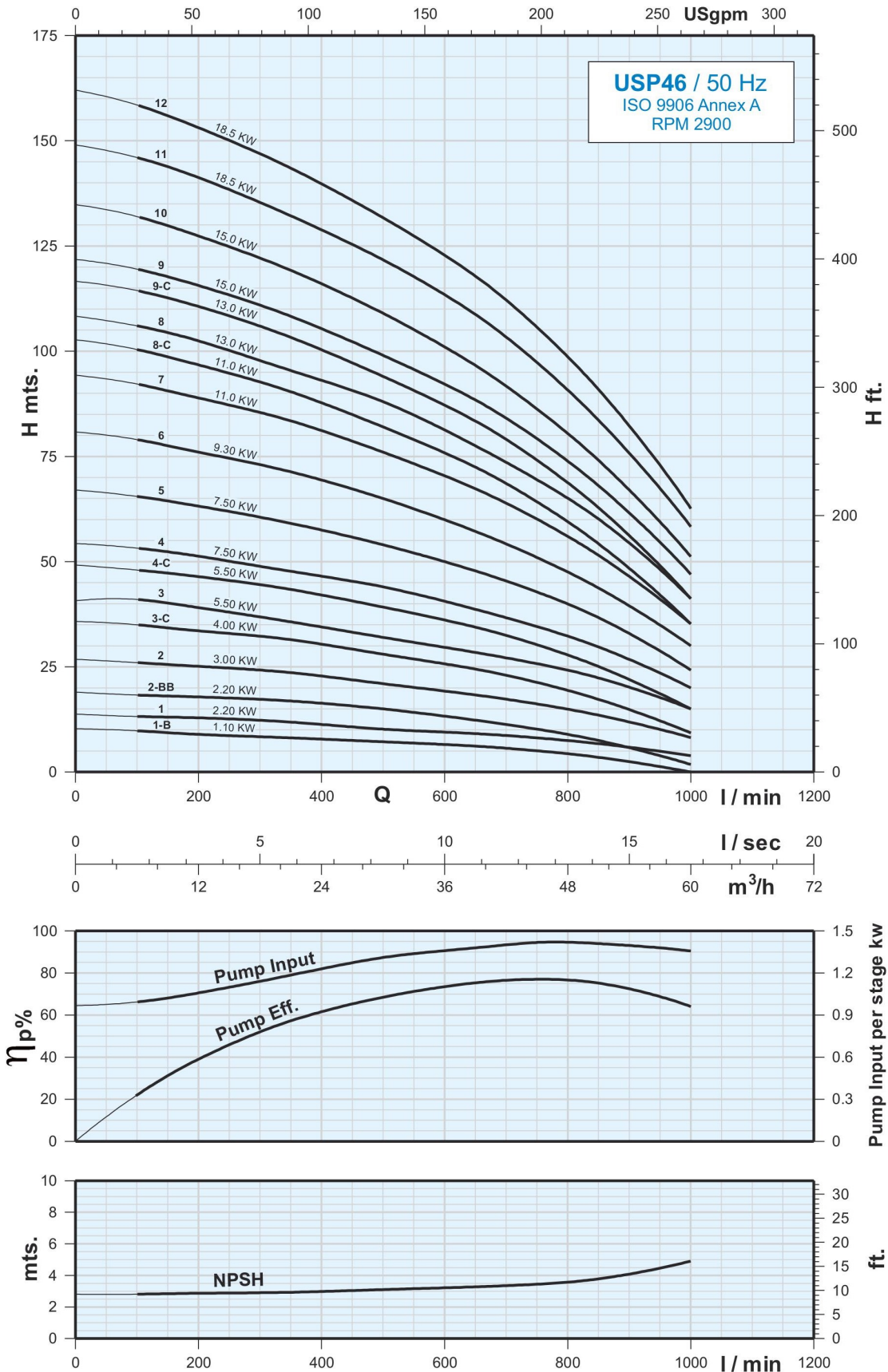


Dimensions & Weights

Model Name	Motor Joining Size	ØE (mm)	L (mm)	Pump Gross Weight (kg)	Pump Gross Volume (m ³)
USP46/1-B	4"	146	522	9.8	0.0151
USP46/1	4"	146	522	9.8	0.0151
USP46/2-BB	4"	146	635	12.5	0.0183
USP46/2	4"	146	635	12.5	0.0183
USP46/3-C	4"	146	748	15.3	0.0216
USP46/3	4"	146	748	15.3	0.0216
USP46/4-C	4"	146	861	18.0	0.0249
USP46/4	4"	146	861	18.0	0.0249
USP46/5	4"	146	974	20.8	0.0281
USP46/4	6"	148	861	18.0	0.0249
USP46/5	6"	148	974	20.8	0.0281
USP46/6	6"	148	1087	23.5	0.0314
USP46/7	6"	148	1200	26.3	0.0347
USP46/8-C	6"	148	1313	29.0	0.0379
USP46/8	6"	148	1313	29.0	0.0379
USP46/9-C	6"	148	1426	31.8	0.0412
USP46/9	6"	148	1426	31.8	0.0412
USP46/10	6"	148	1539	34.5	0.0445
USP46/11	6"	148	1652	37.3	0.0477
USP46/12	6"	148	1765	40.0	0.0510



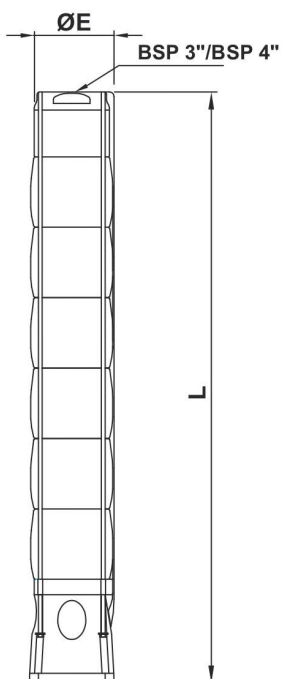
Performance Curve





Performance Table

Model Name	kW	HP	Stage	Q	n = 2900 rpm						
				m ³ /h	0	10	20.2	30	40	50	60
				L/min	0	167	337	500	667	834	1000
USP46/13	22.0	30.0	13	H mts.	176	168	157	143	126	102	69
USP46/14	22.0	30.0	14		189	181	168	153	134	108	73
USP46/15	22.0	30.0	15		202	193	180	163	142	115	77
USP46/16	26.0	35.0	16		217	208	193	177	155	125	84
USP46/17	26.0	35.0	17		229	220	205	187	163	131	89
USP46/18	30.0	40.0	18		245	235	219	199	175	141	97
USP46/19	30.0	40.0	19		258	246	230	209	183	148	101
USP46/20	30.0	40.0	20		271	259	241	219	192	155	105
USP46/21	37.0	50.0	21		285	274	255	233	205	167	115
USP46/22	37.0	50.0	22		298	286	267	244	215	174	120
USP46/23	37.0	50.0	23		311	298	278	254	223	180	124
USP46/24	37.0	50.0	24		323	310	289	264	232	188	128
USP46/26	45.0	60.0	26		358	343	321	294	260	213	148
USP46/28	45.0	60.0	28		383	368	345	316	280	228	159
USP46/30	45.0	60.0	30		410	393	368	337	298	243	168
USP46/33	55.0	75.0	33		452	435	407	373	330	270	188
USP46/35	55.0	75.0	35		479	460	430	395	350	285	199
USP46/37	66.0	90.0	37	508	488	457	420	372	305	213	

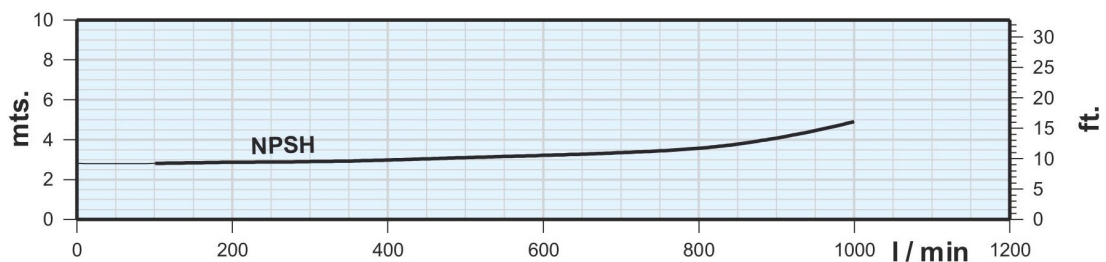
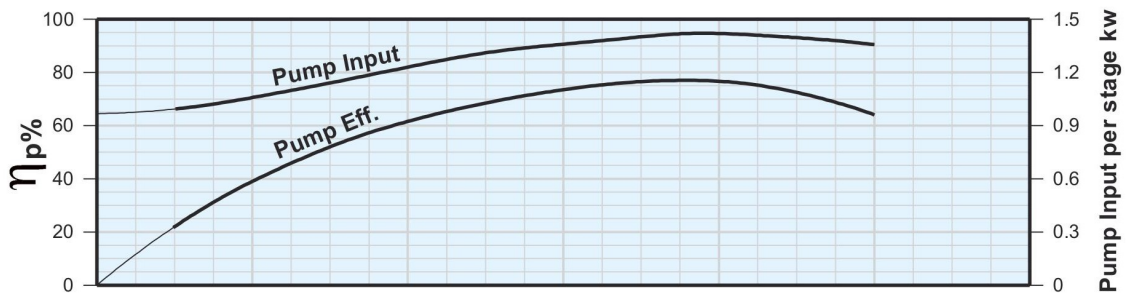
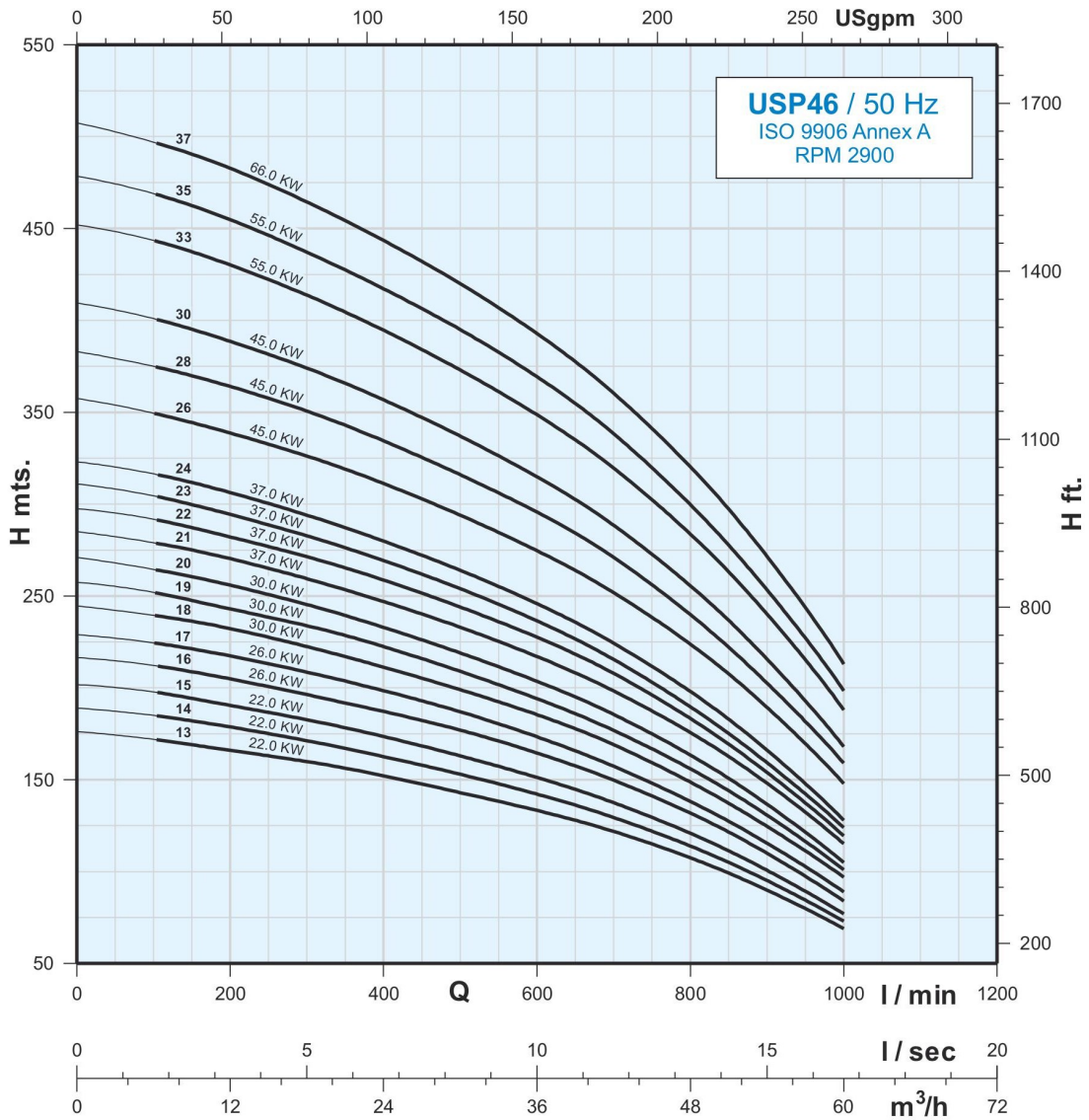


Dimensions & Weights

Model Name	Motor Joining Size	ØE (mm)	L (mm)	Pump Gross Weight (kg)	Pump Gross Volume (m ³)
USP46/13	6"	148	1878	42.8	0.0542
USP46/14	6"	148	1991	45.5	0.0610
USP46/15	6"	148	2104	48.3	0.0644
USP46/16	6"	148	2217	51.0	0.0679
USP46/17	6"	148	2330	53.8	0.0714
USP46/18	6"	148	2443	56.6	0.0748
USP46/19	6"	148	2556	59.3	0.0783
USP46/20	6"	148	2669	62.1	0.0817
USP46/21	6"	148	2782	64.8	0.0852
USP46/22	6"	148	2895	67.6	0.0887
USP46/23	6"	148	3008	70.3	0.0921
USP46/24	6"	148	3121	73.1	0.0956
USP46/26	8"	190	3347	78.6	0.1025
USP46/28	8"	190	3573	84.1	0.1094
USP46/30	8"	190	3799	89.6	0.1163
USP46/33	8"	190	4138	97.8	0.1267
USP46/35	8"	190	4364	103.3	0.1336
USP46/37	8"	190	4590	108.9	0.1406



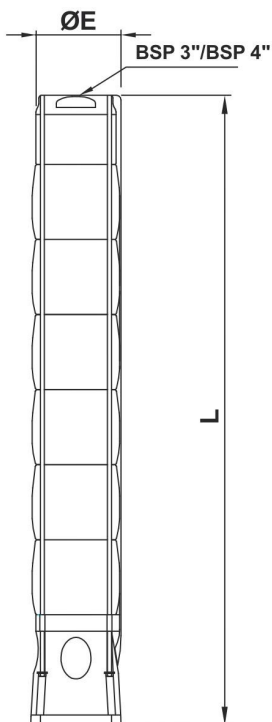
Performance Curve





Performance Table

Model Name	kW	HP	Stage	Q	n = 2900 rpm						
				m ³ /h	0	20	30	40	50	70	78
				L/min	0	333	500	667	833	1167	1300
USP60/1-A	1.50	2.00	1	H mts.	11	10	8	7	6	1	-
USP60/1	2.20	3.00	1		14	13	11	9	8	4	1
USP60/2-B	3.00	4.00	2		22	21	18	16	13	6	1
USP60/2	4.00	5.50	2		28	26	23	19	17	10	6
USP60/3	5.50	7.50	3		42	39	35	30	26	16	10
USP60/4	7.50	10.0	4		56	53	47	41	35	22	14
USP60/5	9.30	12.5	5		71	65	59	51	44	28	18
USP60/6	11.0	15.0	6		85	79	71	62	54	34	22
USP60/7	13.0	17.5	7		99	92	83	73	63	40	26
USP60/8-B	13.0	17.5	8		108	100	90	80	68	42	26
USP60/8	15.0	20.0	8		114	106	95	84	73	46	31
USP60/9-B	15.0	20.0	9		122	113	102	90	78	48	31
USP60/9	18.5	25.0	9		129	121	109	96	83	54	37
USP60/10	18.5	25.0	10		143	133	120	106	92	60	41

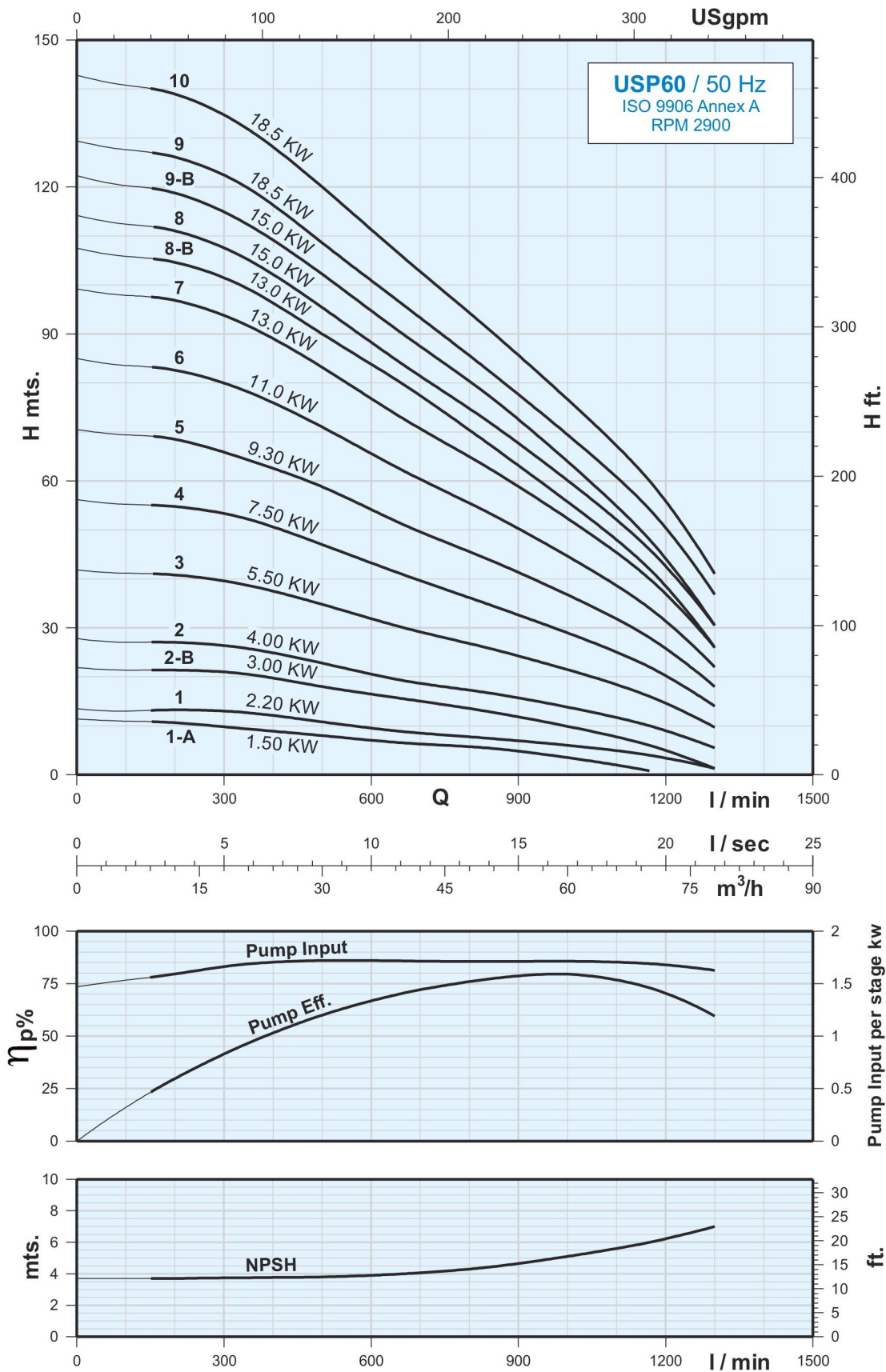


Dimensions & Weights

Model Name	Motor Joining Size	ØE (mm)	L (mm)	Pump Gross Weight (kg)	Pump Gross Volume (m ³)
USP60/1-A	4"	146	522	9.8	0.0151
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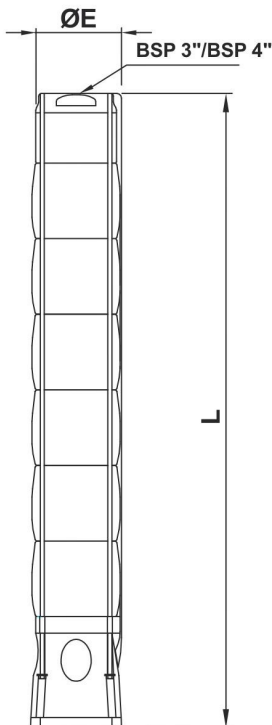
Performance Curve





Performance Table

Model Name	kW	HP	Stage	Q	n = 2900 rpm						
				m ³ /h	0	20	30	40	50	70	78
				L/min	0	333	500	667	833	1167	1300
USP60/11	22.0	30.0	11	H mts.	158	147	133	117	102	67	45
USP60/12	22.0	30.0	12		172	159	143	126	110	72	50
USP60/13	26.0	35.0	13		187	174	157	138	120	78	55
USP60/14	26.0	35.0	14		200	186	168	148	129	85	58
USP60/15	26.0	35.0	15		214	197	178	157	137	89	60
USP60/16	30.0	40.0	16		230	213	192	168	147	95	65
USP60/17	30.0	40.0	17		243	225	203	178	156	100	68
USP60/18	37.0	50.0	18		260	242	220	193	168	111	78
USP60/19	37.0	50.0	19		273	255	230	203	177	117	82
USP60/20	37.0	50.0	20		287	267	242	213	184	122	85
USP60/21	37.0	50.0	21		301	280	253	223	192	128	89
USP60/22	45.0	60.0	22		323	302	274	242	211	141	100

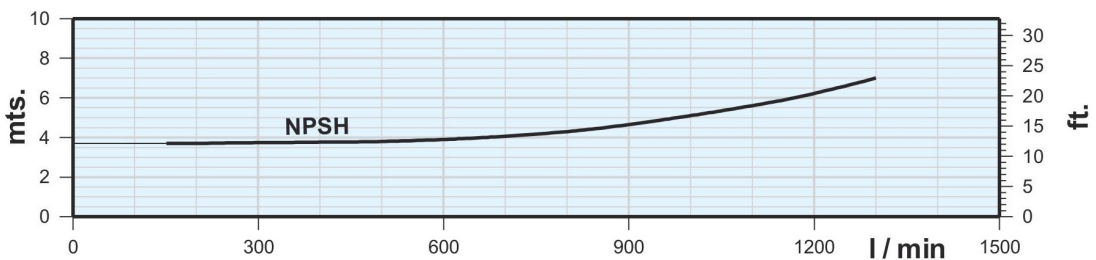
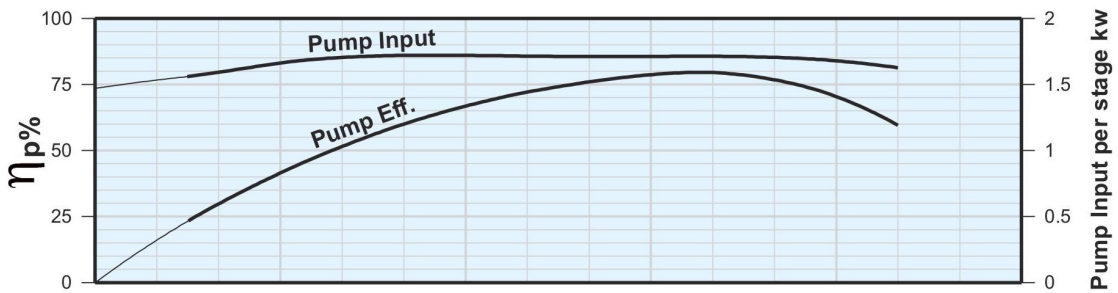
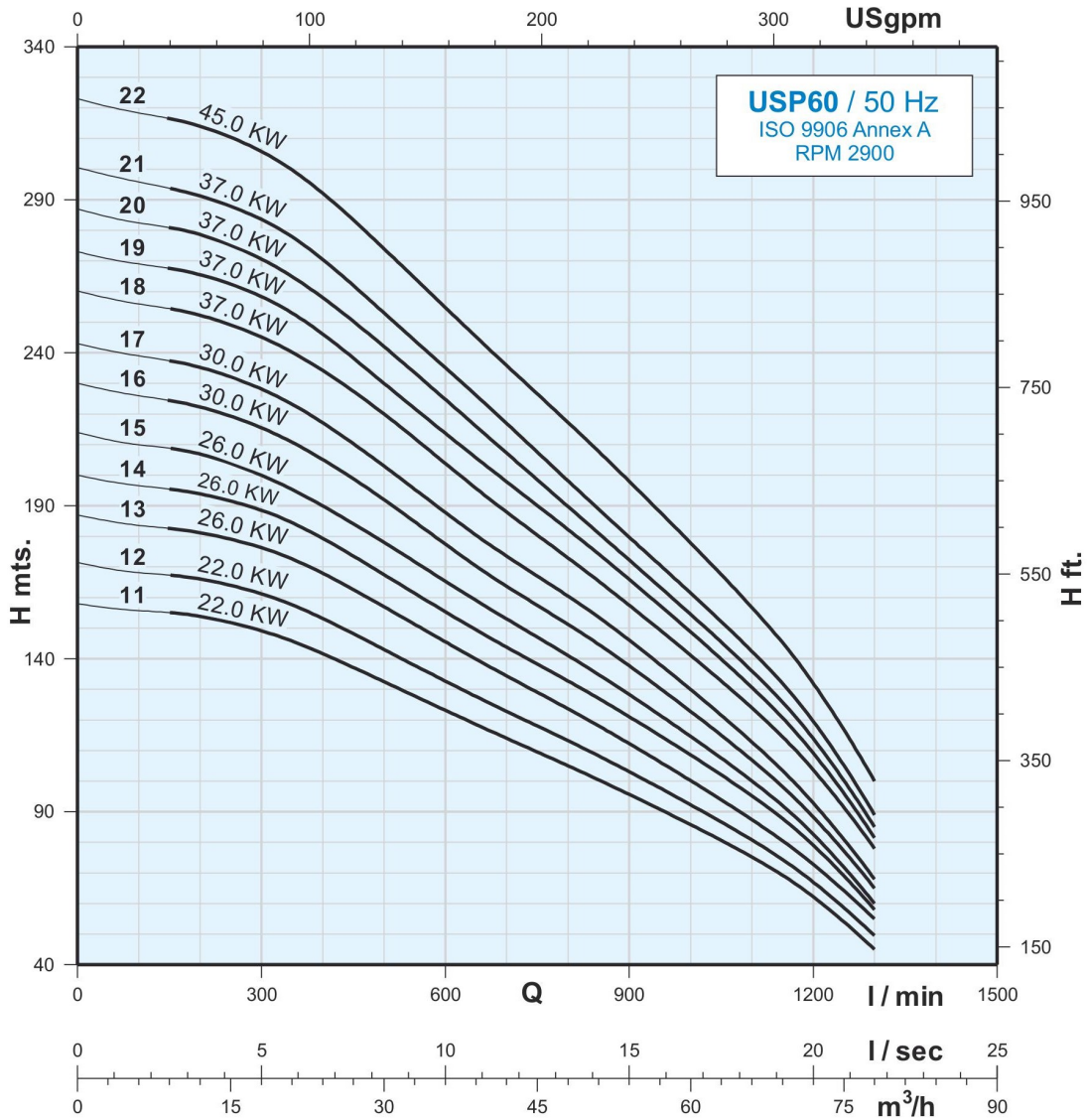


Dimensions & Weights

Model Name	Motor Joining Size	ØE (mm)	L (mm)	Pump Gross Weight (kg)	Pump Gross Volume (m ³)
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USP60/17	6"	148	2330	53.8	0.0714
USP60/18	6"	148	2443	56.6	0.0748
USP60/19	6"	148	2556	59.3	0.0783
USP60/20	6"	148	2669	62.1	0.0817
USP60/21	6"	148	2782	64.8	0.0852
USP60/22	8"	190	2895	67.6	0.0887



Performance Curve



Disclaimer : Due to continual up gradation in design & specification in motor the technical details illustrated in this catalogue may differ with that of actual motor.



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