

# ALGO

PUMPS | MOTORS | PIPES | CABLES

## DEEP WELL SUBMERSIBLE PUMPS & MOTORS



\* for Specific Models

AN ISO 9001 & 14001 COMPANY

[www.algopumps.com](http://www.algopumps.com)

### 50Hz



## Algo Profile

ALGO positions itself as not just a pump manufacturing company but as a dependable, technologically sound and one stop solution provider to meet the diverse needs of customers across the globe. Understanding the need of efficient and cost effective pumping solutions and fluid management systems ALGO is established by the veterans having more than 33 years of diversified experience.

To overcome the current challenges in providing energy efficient and complete pumping solutions and meet the requirement of discerning customers ALGO is determined to offer technologically integrated and inventive pumping systems & Solutions at affordable prices.

With the vast experience gained in both domestic and international markets ALGO products are designed and produced with synergy of best in class technologies and processes with international standards. Most of its products are ISI certified and manufacturing facilities are accredited with ISO 9001 & 14001

ALGO stays abreast of the major changes worldwide in terms of technology and processes. This combines with the ability to understand customers' requirement allows for the development of products that meet the challenges of tomorrow.

ALGO has comprehensive range of products to cater Residential, Agriculture, Building services, Industrial & waste water segments. ALGO'S highly qualified Engineers and technicians assure satisfactory service at all time

The ability & Impetus of ALGO in product development, Pricing, Promotion, e-commerce strategies will result in sustainable competitive advantages for all stake holders. We at ALGO always strive to focus on current industry trend and meet the next generation pumping requirements.



## Mission, Vision & Value

To provide technologically integrated and ultramodern fluid management systems and solutions for diversified applications at affordable prices and become one of the pump majors globally.

To ensure that we meet all the standards of safety, efficiency, hygiene and environment protection and contribute significantly in developing systems for energy saving.

Our Values are defined by our dedication to Quality, Principles, & Integrity that lead to customers' satisfaction all time and ultimate success of the company and its stakeholders.



## Quality Policy

We are determined to offer reliable & Innovative products and services with high standards, Dedicated to understand & meet customers' requirements on time.

We are committed to focus on introducing industry best technologies & Concepts to save energy, protect environment and to give high priority for customers' satisfaction all time.

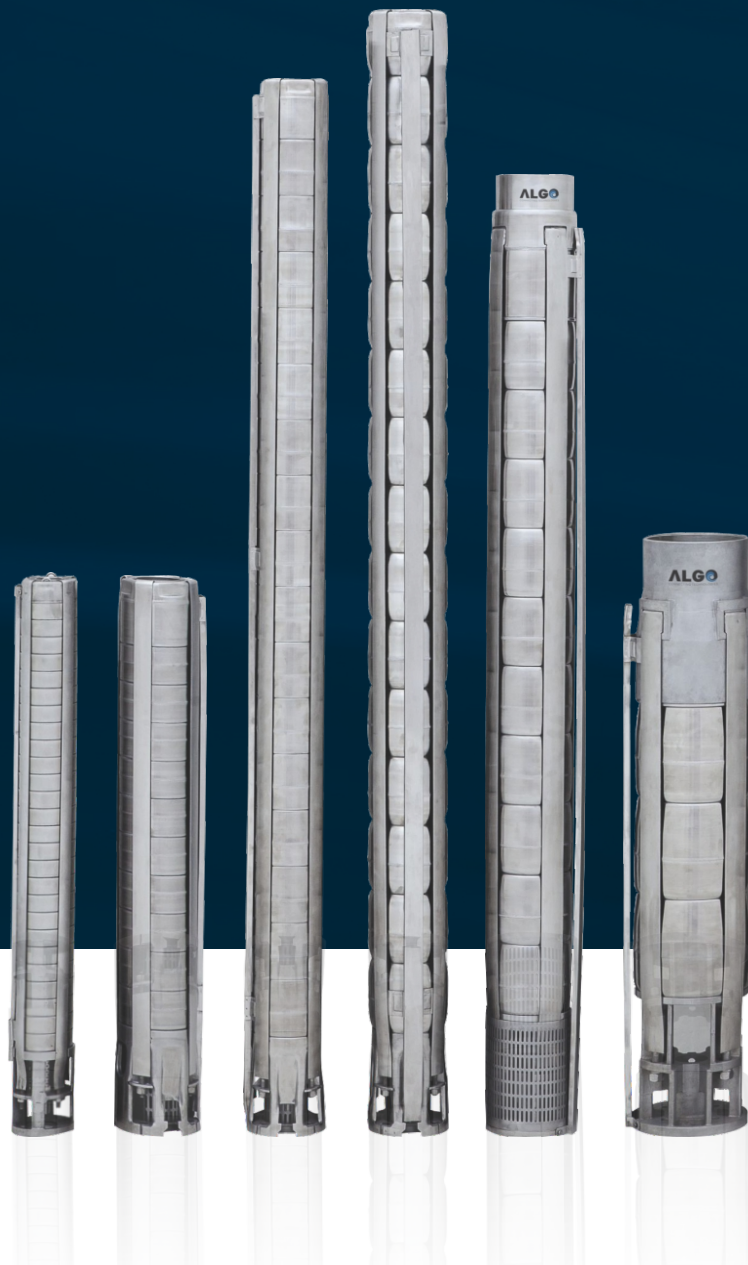


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# ALINOX SERIES



ALGO ALINOX Series stainless steel bore hole submersible pumps are multistage centrifugal type and are designed to deliver best efficiency. All hydraulic components are fabricated with high grade non-magnetic corrosion resistant SS304 / SS316 stainless steel materials for hygienic water supply and longer life. All components are precisely machined & balanced to have excellent mechanical stability and withstand high torque. These pumps are provided with inbuilt Check valve to prevent back flow of water. These pumps are available with combination type NEMA standard mounting dimensions also to suit with higher and lower diameter NEMA Standard motors.

## PUMP OPERATING LIMITATIONS

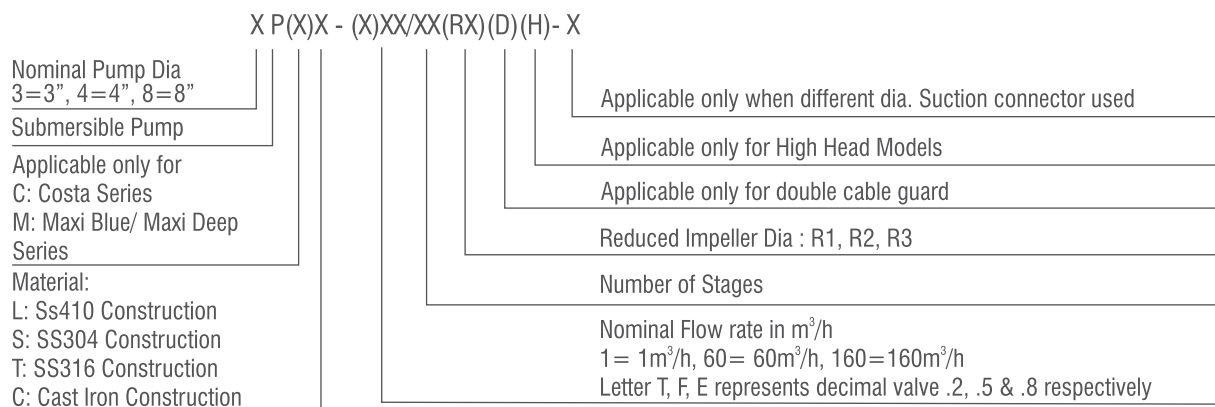
Model	4PS	6PS	8PS	10PS
Nominal Dia.	4" (100mm)	6" (150mm)	8" (200mm)	10" (250mm)
Power Range	0.37 - 7.5 kW	0.55 - 55 kW	5.5 - 110 kW	9.3 - 220 kW
Speed	2900 rpm	2900 rpm	2900 rpm	2900 rpm
Flow Range m <sup>3</sup> /h	0.4 - 20	7 - 76	20 - 126	18 - 280
Head range m	4.0 - 480	4.5 - 645	8 - 475	6 - 488
Outlet size	1¼", 1½" & 2"	2", 2½", 3" & 4"	4" & 5"	6"

## OPERATING CONDITIONS

Liquid Temperature	: 33°C (NBR) 90°C (VITON)
Max. Permissible Sand Content	: 50 g/m <sup>3</sup>
Max. Allowable TDS	: 3000 PPM
Specific Gravity	: 1.004
PH	: 6.5 to 8.5

High Temperature Applications: Pumps will be supplied with Viton rubber material, on request at additional cost.

## MODEL NOMENCLATURE



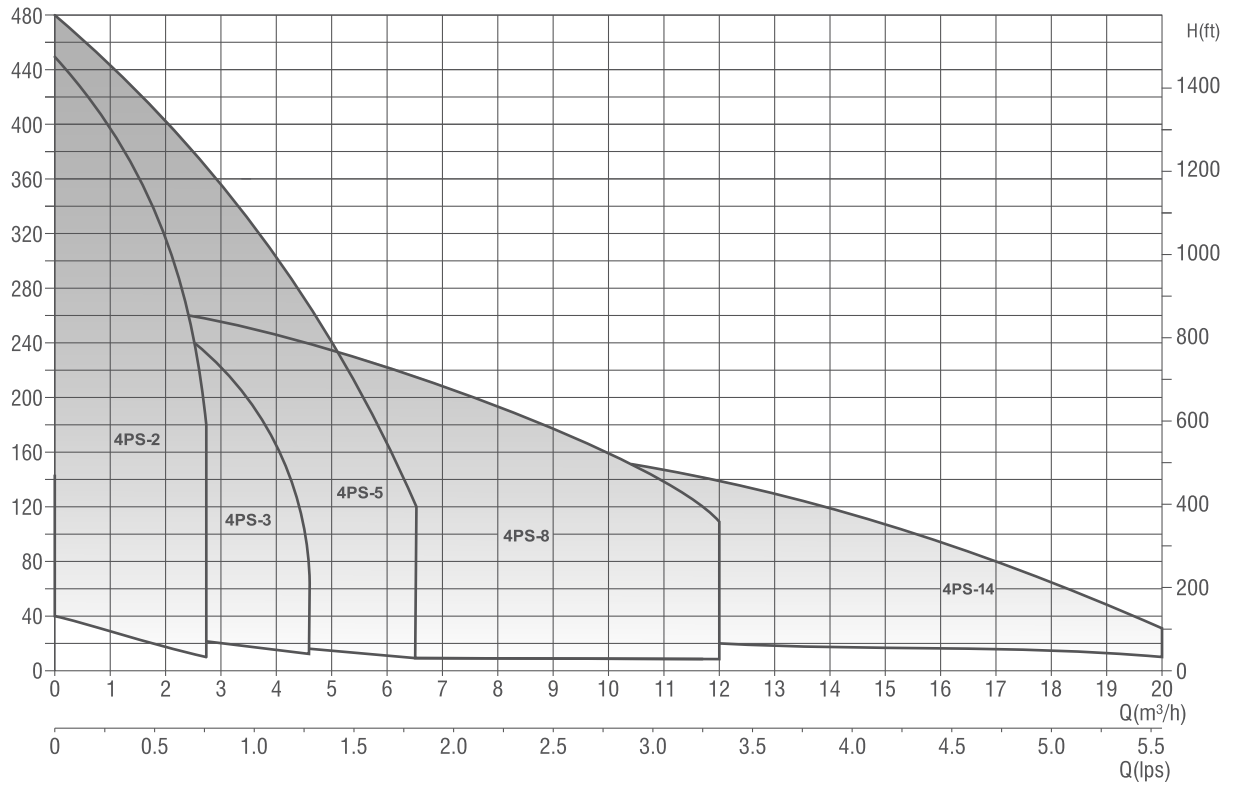
Available in both SS304 (PS Type) & SS316 (PT Type) construction

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

# ALINOX SERIES

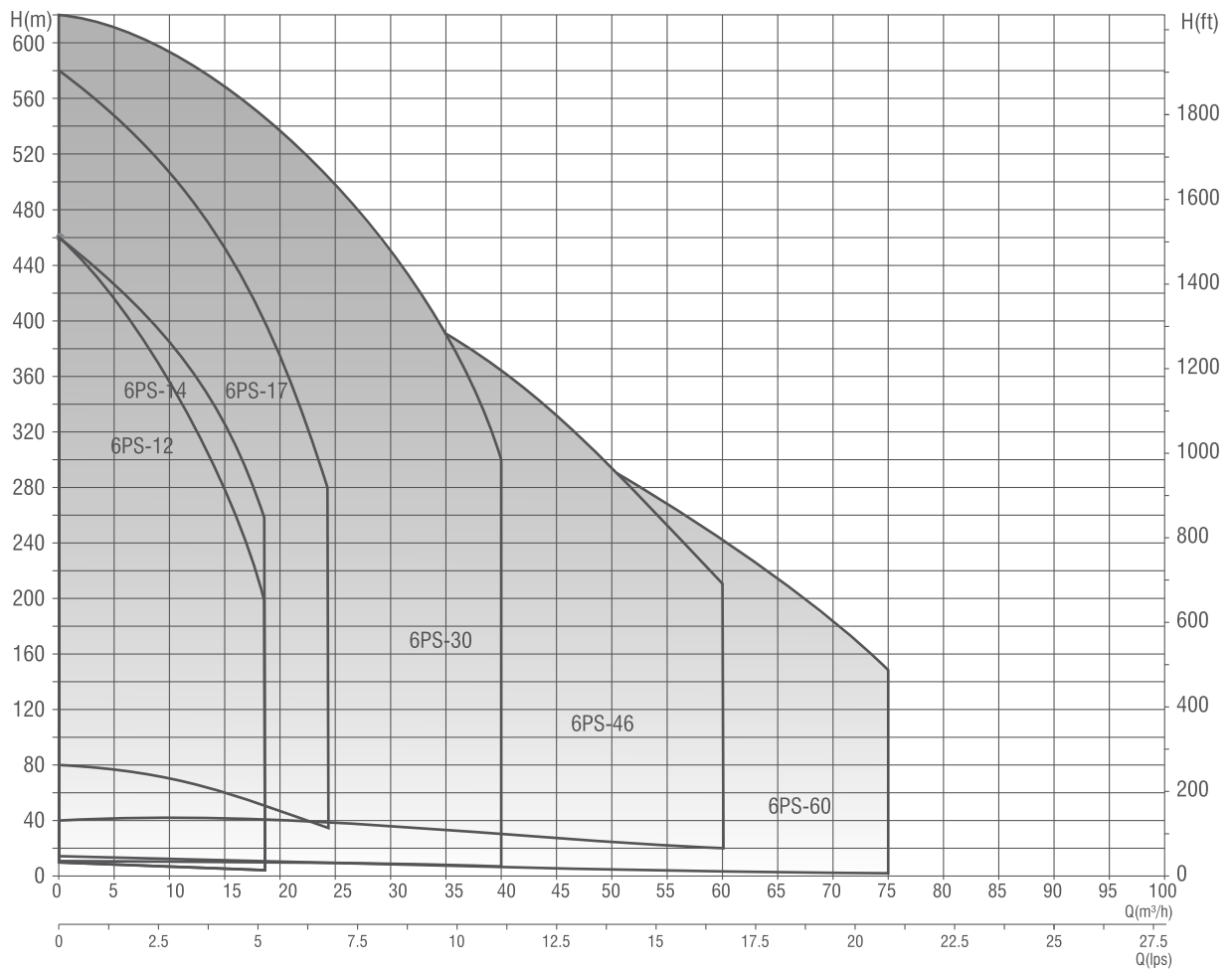
## 4PS Group Performance

2900 rpm



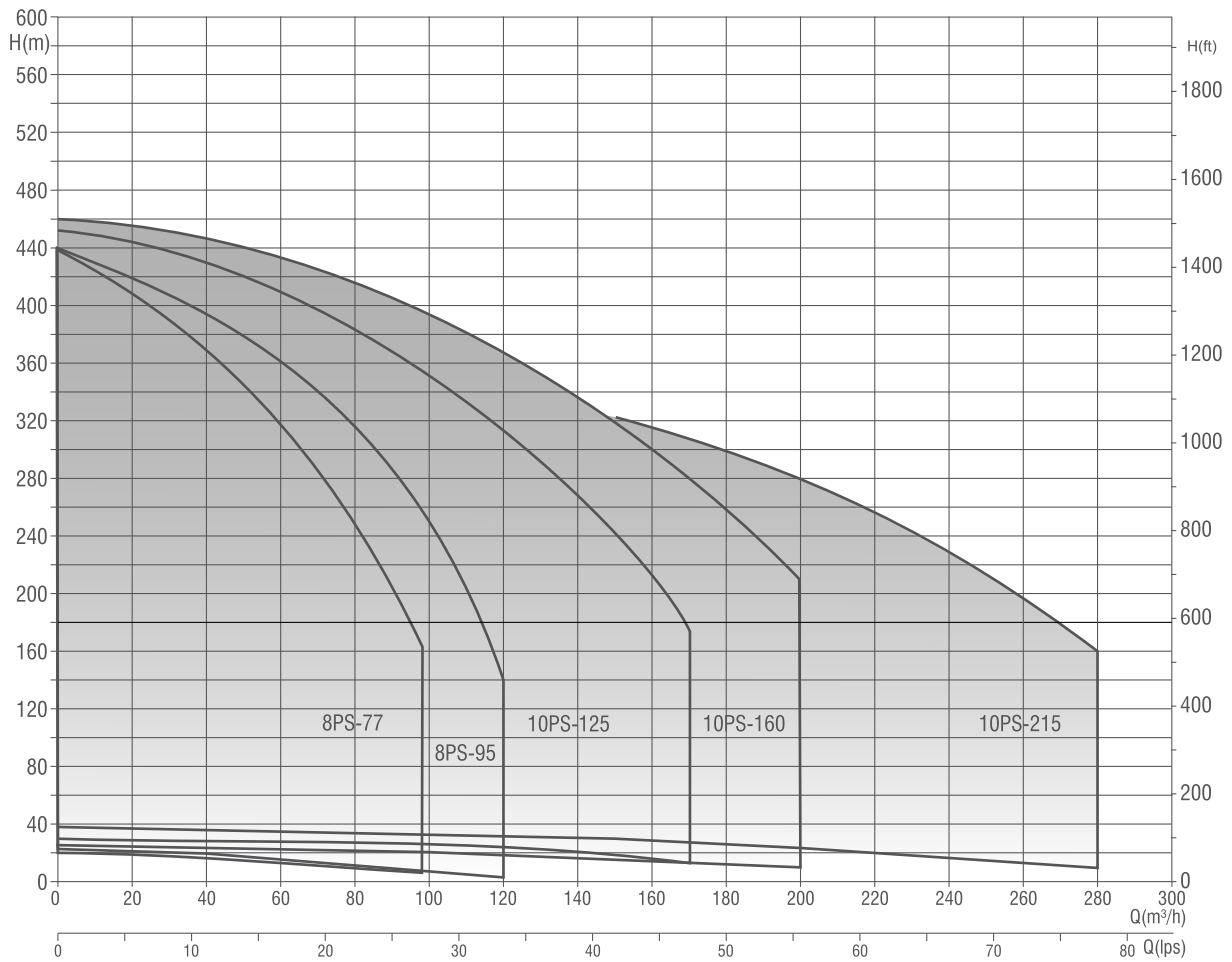
## 6PS Group Performance

2900 rpm



## 8PS & 10PS Group Performance

2900 rpm



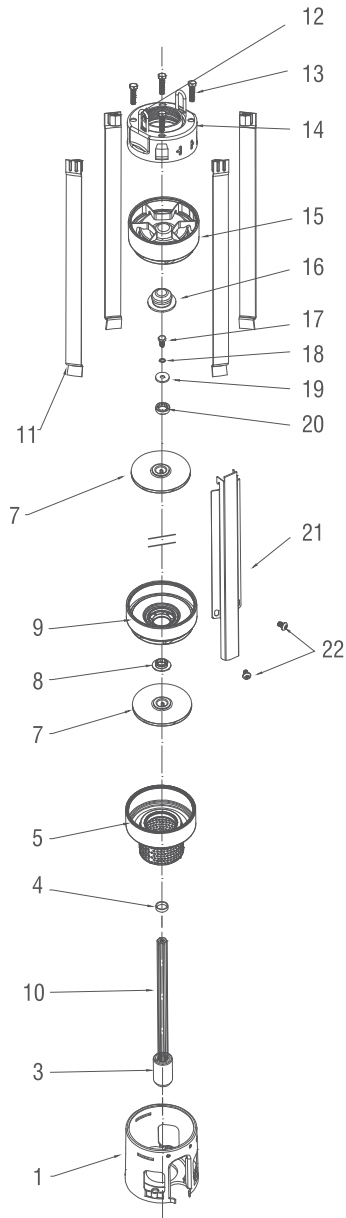
## Materials of Construction

PART NAME	4" SS PUMPS		6" to 10" SS PUMPS	
	TYPE - PS	TYPE - PT	TYPE - PS	TYPE - PT
IMPELLER	S.S. - 304	S.S. - 316	S.S. - 304	S.S. - 316
DIFFUSER CHAMBER	S.S. - 304	S.S. - 316	S.S. - 304	S.S. - 316
SHAFT	S.S. - 304 / 420	S.S. - 316	S.S. - 304 / 420	S.S. - 316
SUCTION HOUSING	S.S. - 304	S.S. - 316	S.S. - 304	S.S. - 316
DISCHARGE HOUSING	S.S. - 304	S.S. - 316	S.S. - 304	S.S. - 316
LOCKING STRAPS	S.S. - 304	S.S. - 316	S.S. - 304	S.S. - 316
COUPLING SPLINES	S.S. - 304 / 420	S.S. - 316	S.S. - 304 / 420	S.S. - 316
CHECK VALVE DISC	S.S. - 304	S.S. - 316	S.S. - 304	S.S. - 316
CHECK VALVE SEAT	NBR / VITON	NBR / VITON	NBR / VITON	NBR / VITON
WEAR RING	NBR / VITON	NBR / VITON	NBR / VITON	NBR / VITON
SPLIT CONE AND NUT	S.S. - 304	S.S. - 316	S.S. - 304	S.S. - 316
STOP RING	S.S. - 420 / BRONZE	TEFLON	CARBON	CARBON
CABLE GUARD	S.S. - 304	S.S. - 316	S.S. - 304	S.S. - 316
STRAINER	S.S. - 304	S.S. - 316	S.S. - 304	S.S. - 316
INTERMEDIATE BEARING	NBR / VITON	NBR / VITON	NBR / VITON	NBR / VITON

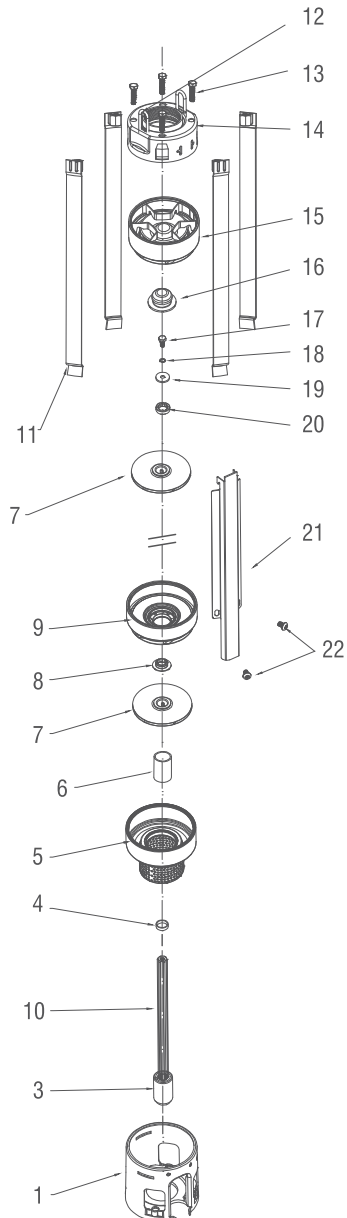
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4" Exploded View: 4PS Models

2 - 5 m<sup>3</sup>/h



8 m<sup>3</sup>/h

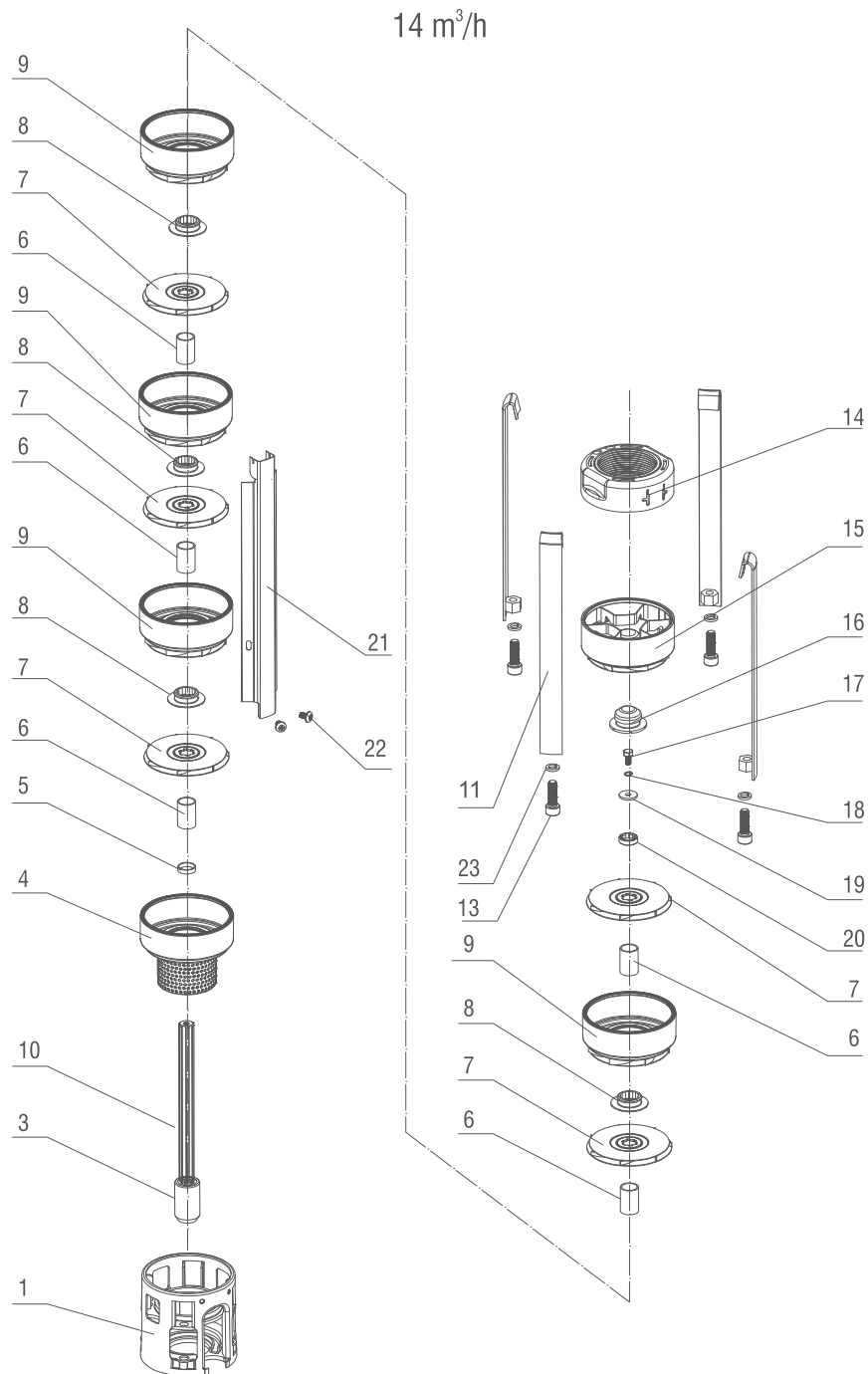


Part No.	Part Name
1	Suction Housing
2	Screw
3	Coupling
4	Spacer Sleeve
5	Inlet Screen Chamber
6	Sleeve
7	Impeller
8	Bush - Diffuser Casing

Part No.	Part Name
9	Diffuser Casing
10	Shaft
11	Locking Strap
12	Hook
13	Locking Strap Bolt
14	Discharge Housing
15	Check Valve Assy.
16	Bush - CT Pad

Part No.	Part Name
17	Screw
18	Washer
19	Upthrust Washer
20	Sleeve
21	Cable Guard
22	Cable Guard Screw

## 4" Exploded View: 4PS Models



Part No.	Part Name
1	Suction Housing
2	Screw
3	Coupling
4	Spacer Sleeve
5	Inlet Screen Chamber
6	Sleeve
7	Impeller
8	Bush - Diffuser Casing

Part No.	Part Name
9	Diffuser Casing
10	Shaft
11	Locking Strap
12	Hook
13	Locking Strap Bolt
14	Discharge Housing
15	Check Valve Assy.
16	Bush - CT Pad

Part No.	Part Name
17	Screw
18	Washer
19	Upthrust Washer
20	Sleeve
21	Cable Guard
22	Cable Guard Screw
23	Spring Washer

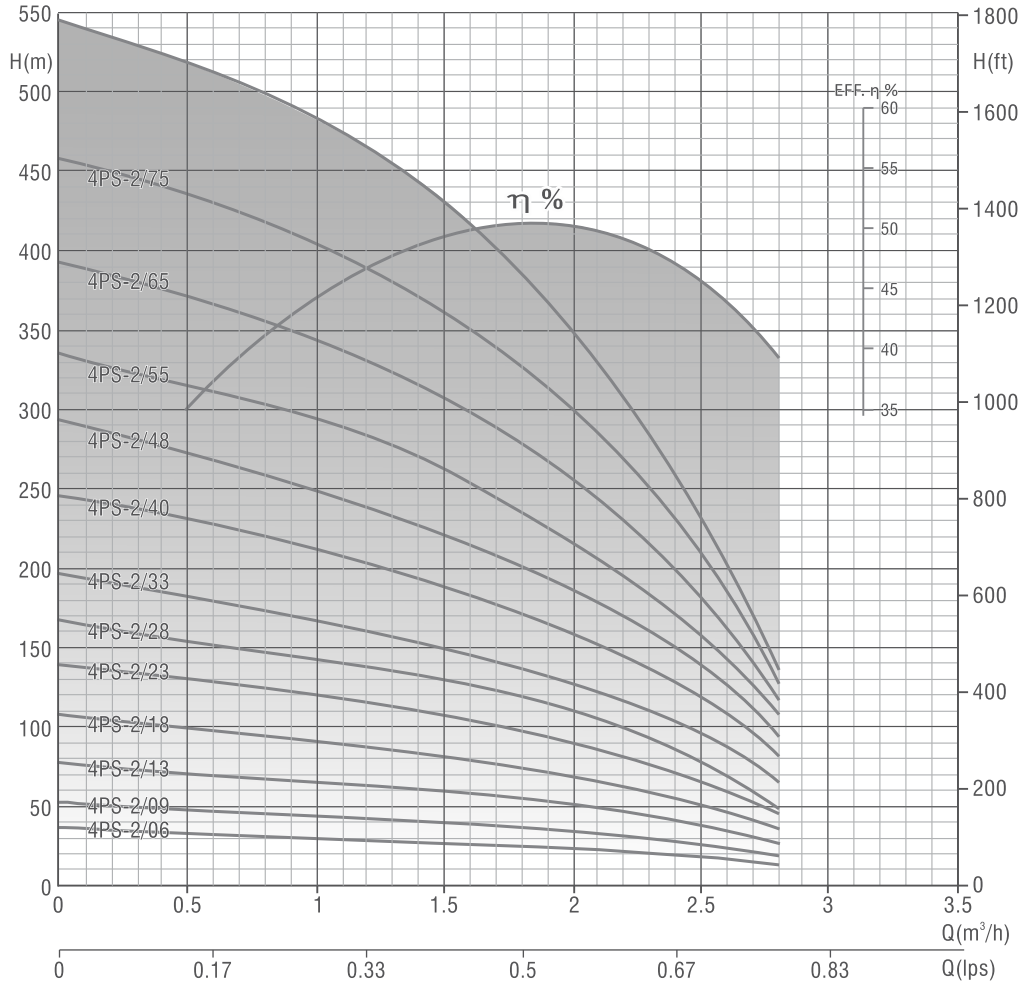
4PS-2

Nominal Flow: 2m<sup>3</sup>/h

Outlet Size: 1 1/4"

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	0.6	1.2	1.8	2.4	2.8	Height L (mm)
	kW	HP		0	0.17	0.33	0.5	0.67	1.0	
4PS-2/06	0.37	0.5	Head (m)	37	33	30	27	24	13	281
4PS-2/09	0.37	0.5		56	50	45	41	36	17	344
4PS-2/13	0.55	0.75		81	72	65	59	52	26	428
4PS-2/18	0.75	1		112	99	90	81	72	36	533
4PS-2/23	1.1	1.5		143	127	115	104	92	47	638
4PS-2/28	1.5	2		174	154	140	126	112	59	743
4PS-2/33	1.5	2		205	182	165	149	132	66	848
4PS-2/40	2.2	3		248	220	198	180	160	81	995
4PS-2/48	2.2	3		298	264	240	216	192	93	1163
4PS-2/55	3	4		336	303	275	248	220	109	1310
4PS-2/65	3	4		394	374	340	279	171	118	1541
4PS-2/75	4	5.5		458	437	397	328	203	129	1751
4PS-2/90	4.5	6		547	520	469	368	238	135	2397

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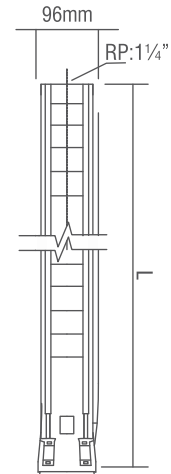
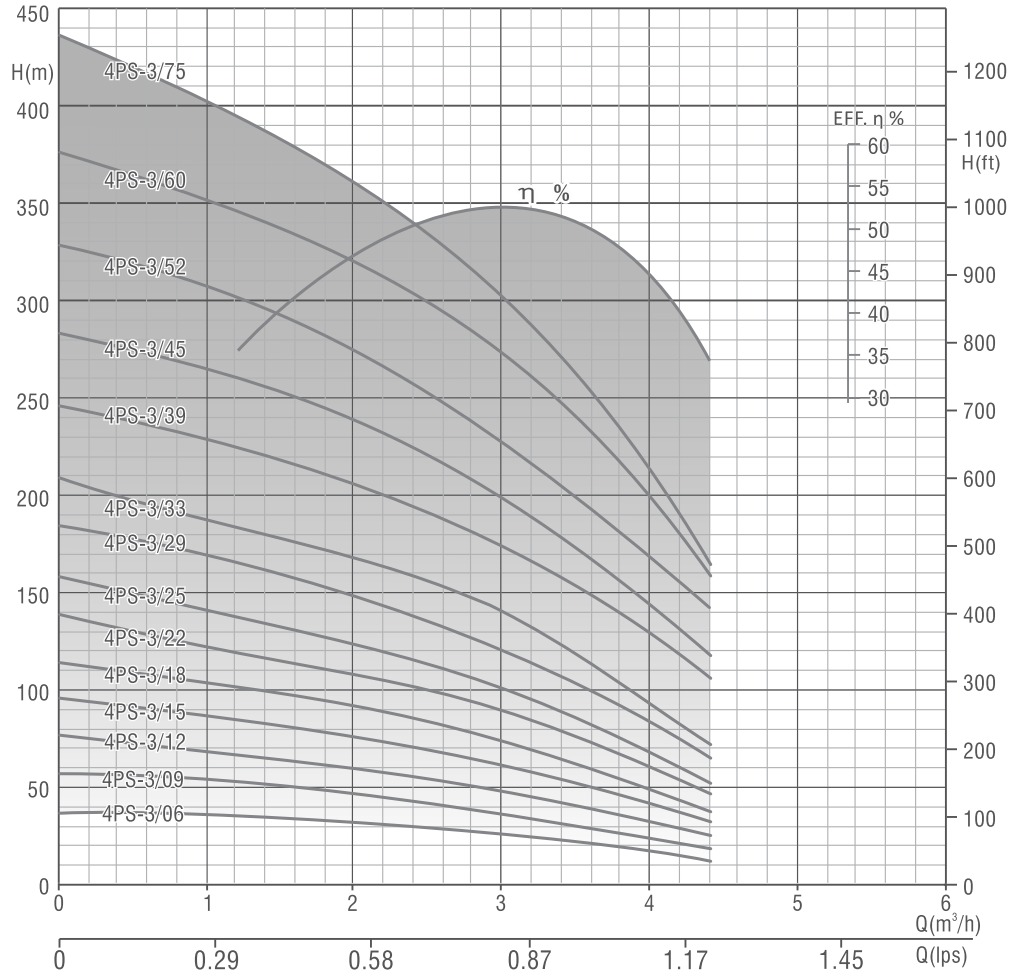
## 4PS-3

Nominal Flow: 3 m<sup>3</sup>/h

Outlet Size: 1 1/4"

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	1.2	2.4	3	3.6	4.2	4.4	Height L (mm)
	kW	HP		0	0.33	0.66	0.83	1.0	1.17	1.22	
4PS-3/06	0.37	0.5	Head(m)	37	33	29	26	23	19	12	281
4PS-3/09	0.55	0.75		56	50	43	40	35	28	19	344
4PS-3/12	0.75	1		74	66	58	53	46	37	26	407
4PS-3/15	1.1	1.5		93	83	72	66	57	47	33	470
4PS-3/18	1.1	1.5		112	99	86	79	69	56	38	533
4PS-3/22	1.5	2		136	121	106	97	84	68	47	617
4PS-3/25	1.5	2		155	138	120	110	96	78	52	680
4PS-3/29	2.2	3		183	165	138	120	100	74	65	729
4PS-3/33	2.2	3		198	176	154	141	123	99	72	827
4PS-3/39	3	4		242	215	187	172	149	121	105	974
4PS-3/45	3	4		272	242	211	194	169	136	118	1107
4PS-3/52	4	5.5		328	302	257	229	192	155	141	1303
4PS-3/60	4	5.5		377	348	308	279	239	189	158	1527
4PS-3/75	5.5	7.5		435	393	340	304	258	190	150	1859

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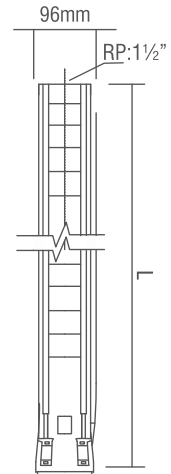
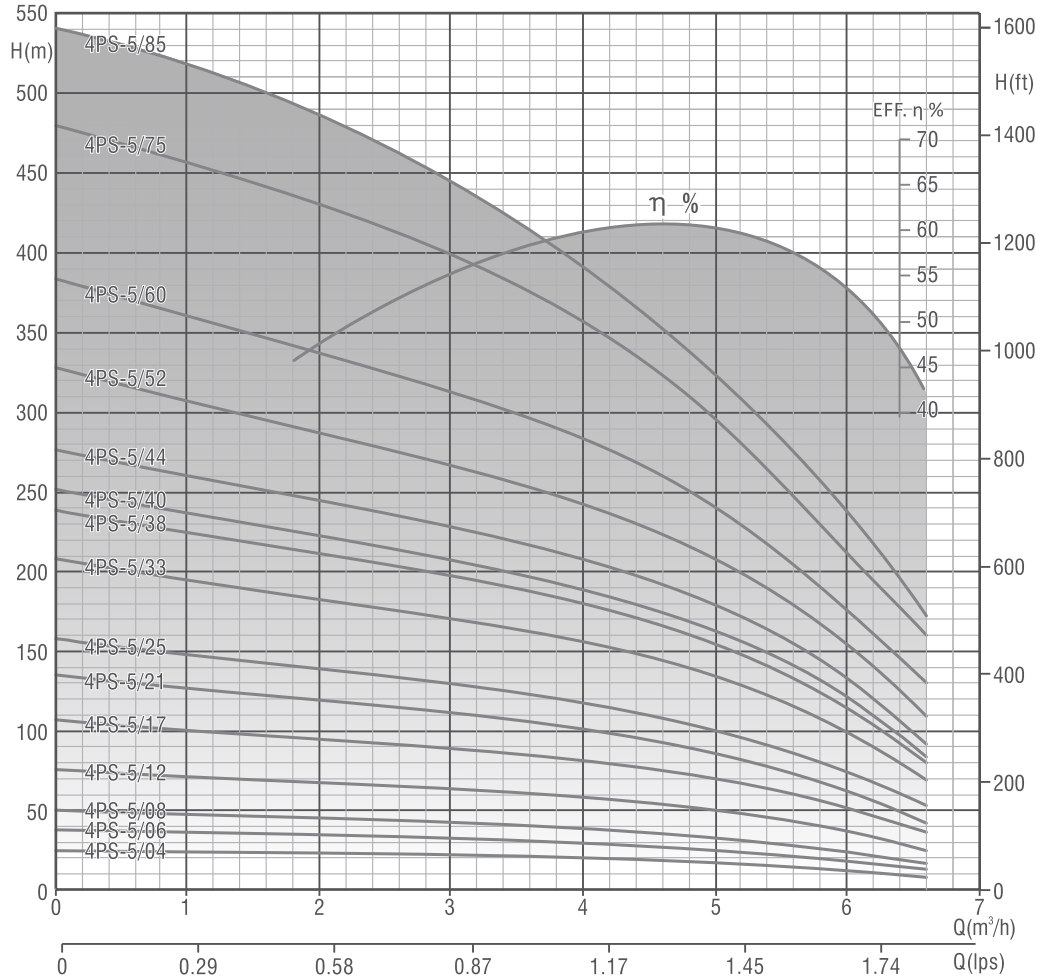
4PS-5

Nominal Flow: 5 m<sup>3</sup>/h

Outlet Size: 1½”

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	2.4	3.6	4.8	5.4	6	6.6	Height L (mm)
	kW	HP		0	0.67	1.0	1.33	1.25	1.67	1.83	
4PS-5/04	0.37	0.5	Head(m)	25	21	20	17	15	12	8	239
4PS-5/06	0.55	0.75		38	32	30	26	23	18	13	281
4PS-5/08	0.75	1		50	43	40	34	30	24	17	323
4PS-5/12	1.1	1.5		76	64	60	52	46	37	25	407
4PS-5/17	1.5	2		107	90	84	73	65	52	36	512
4PS-5/21	2.2	3		135	117	106	89	78	62	42	595
4PS-5/25	2.2	3		158	133	124	108	95	76	53	680
4PS-5/33	3	4		208	176	164	142	125	101	69	848
4PS-5/38	4	5.5		239	202	188	163	144	116	80	953
4PS-5/40	4	5.5		252	213	198	172	152	122	84	995
4PS-5/44	4	5.5		277	234	218	189	167	134	92	1079
4PS-5/52	5.5	7.5		328	277	258	224	198	159	109	1247
4PS-5/60	5.5	7.5		384	329	301	242	219	175	130	1440
4PS-5/75	7.5	10		480	459	423	349	300	240	170	1760
4PS-5/85	7.5	10		540	460	420	342	300	240	175	2369

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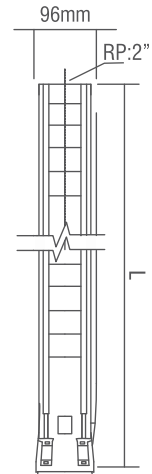
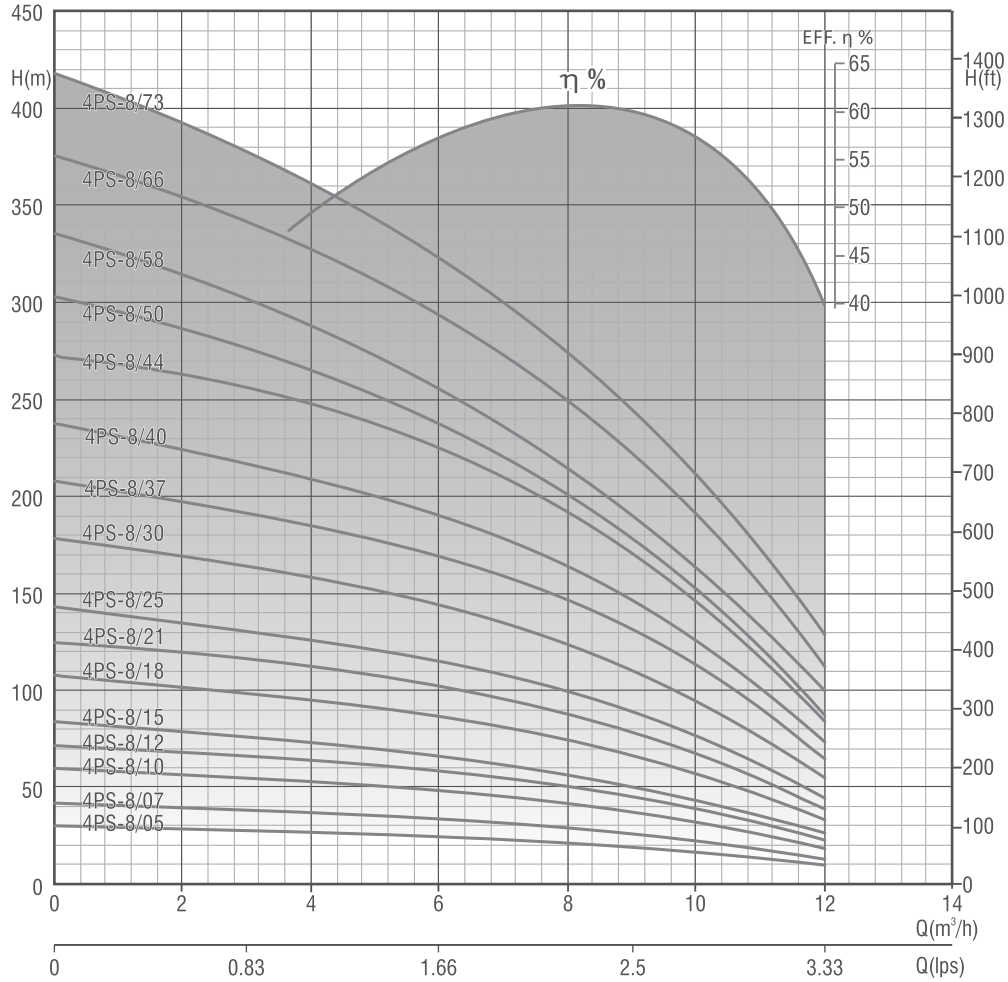
## 4PS-8

Nominal Flow: 8 m<sup>3</sup>/h

Outlet Size: 2"

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	3.6	4.8	6.6	8.4	10.2	12	Height L (mm)
	kW	HP		0	1.0	1.33	1.83	2.33	2.83	3.33	
4PS-8/05	0.75	1	Head(m)	30	27	26	24	21	16	10	292.5
4PS-8/07	1.1	1.5		41	37	36	33	29	22	12	347.5
4PS-8/10	1.5	2		60	54	51	47	41	32	18	430
4PS-8/12	2.2	3		71	64	61	57	50	38	22	485
4PS-8/15	2.2	3		84	75	71	66	58	44	26	540
4PS-8/18	3	4		108	97	91	84	74	57	33	650
4PS-8/21	4	5.5		125	113	107	99	86	66	38	732.5
4PS-8/25	4	5.5		143	129	122	113	99	76	44	815
4PS-8/30	5.5	7.5		179	161	153	141	124	95	55	980
4PS-8/37	5.5	7.5		208	188	179	164	145	111	64	1117.5
4PS-8/40	7.5	10		238	215	204	188	165	127	73	1255
4PS-8/44	7.5	10		273	246	233	216	189	145	84	1365
4PS-8/50	7.5	10		303	265	247	224	190	148	88	1530
4PS-8/58	9.3	12.5		335	288	269	242	210	163	100	1750
4PS-8/66	11	15		374	327	304	280	247	190	116	1970
4PS-8/73	11	15		418	355	335	309	268	208	130	2218

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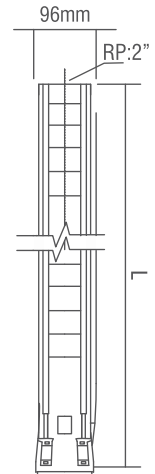
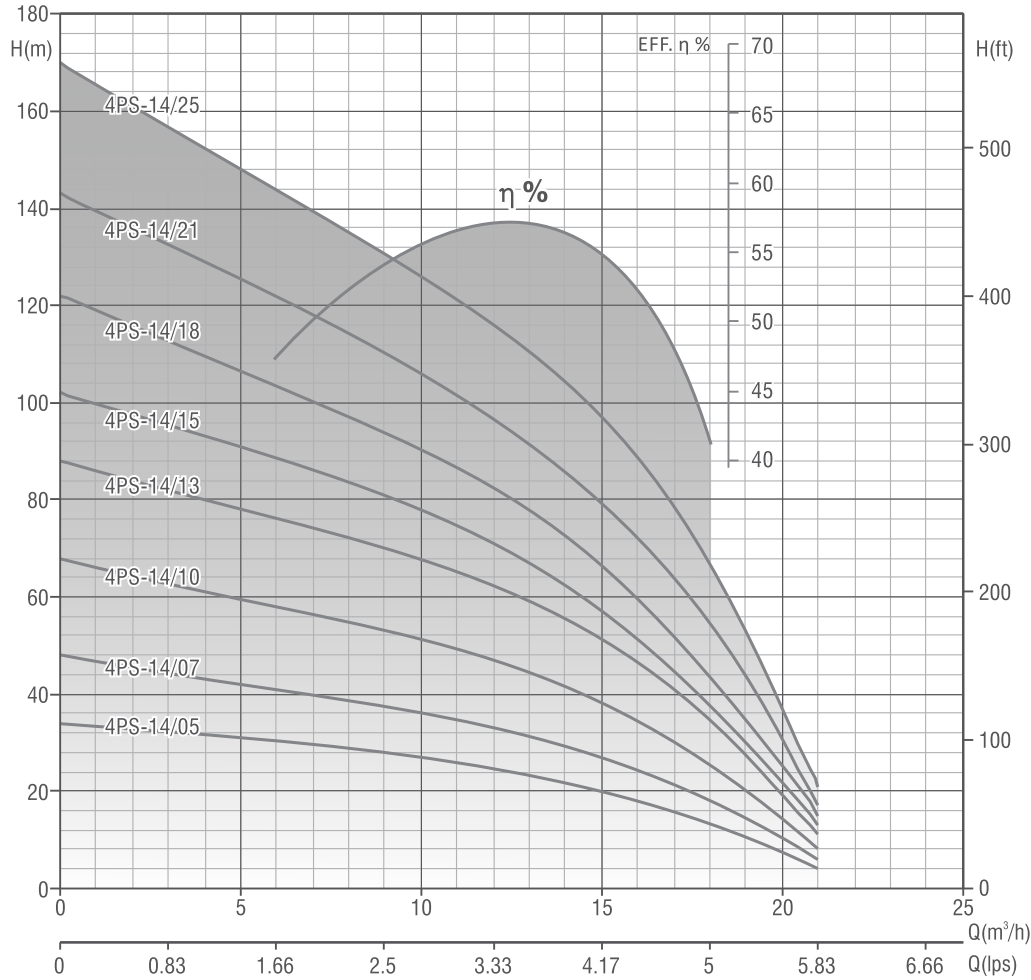
# 4PS-14

Nominal Flow: 14 m<sup>3</sup>/h

Outlet Size: 2"

Performance Curve

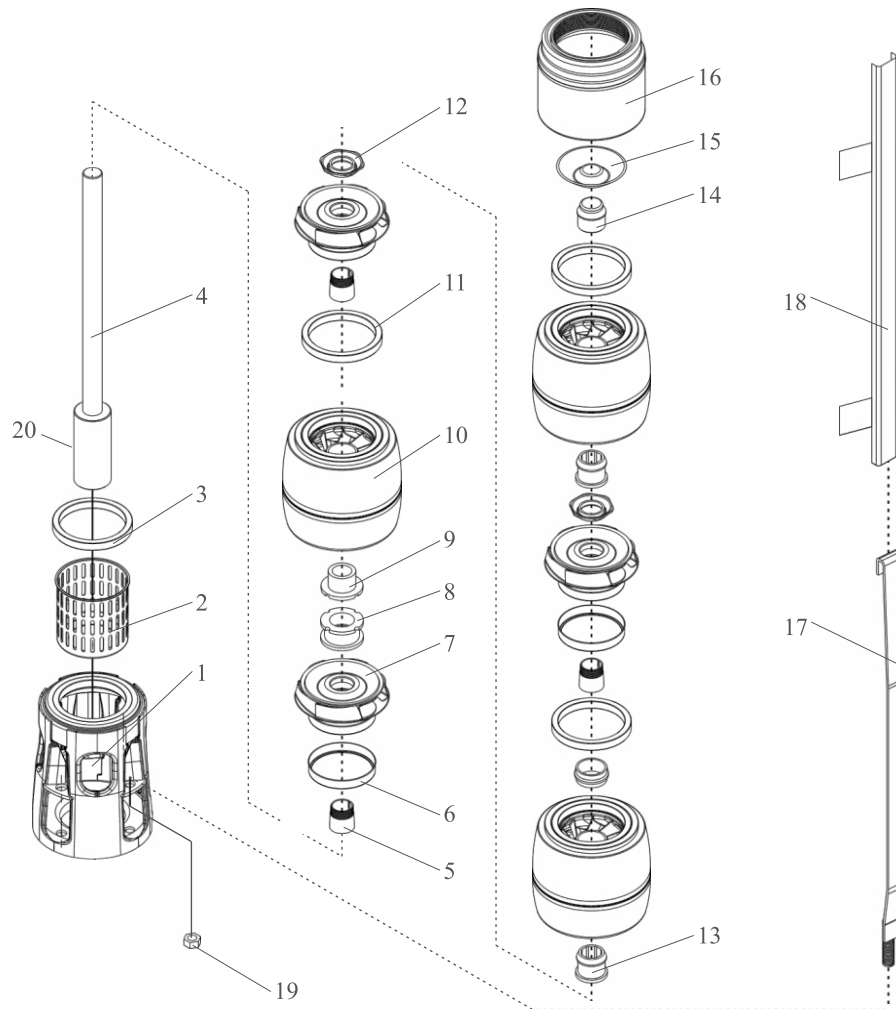
2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	3	6	9	12	15	18	21	Height L (mm)
	kW	HP		0	0.83	1.67	2.5	3.33	4.17	5.0	5.83	
4PS-14/05	1.5	2	Head (m)	33	31	29	27	24	19	14	4	365
4PS-14/07	2.2	3		47	43	41	38	33	27	18	6	449
4PS-14/10	3	4		66	61	58	53	48	39	26	8	575
4PS-14/13	4	5.5		85	80	75	70	62	49	34	11	701
4PS-14/15	5.5	7.5		99	92	86	81	72	57	40	13	785
4PS-14/18	5.5	7.5		118	111	104	96	85	69	48	15	911
4PS-14/21	7.5	10		139	129	121	113	100	81	55	17	1037
4PS-14/25	7.5	10		165	153	145	134	119	96	66	21	1205

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## 6" Exploded View: 6PS Models



Part No.	Part Name	Part No.	Part Name
1	Suction Housing	11	Diffuser Wear Ring
2	Strainer	12	Bush Bearing
3	Suction Housing Wear Ring	13	Split Cone Nut
4	Pump Shaft	14	Upper Bearing
5	Split Cone	15	Valve Disc
6	Impeller Wear Ring	16	Discharge housing
7	Impeller	17	Cable Guard
8	Bush CT-Pad	18	Locking Strap
9	Stop Ring	19	Locking Strap Nut
10	Diffuser	20	Coupling

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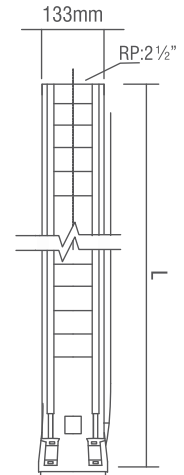
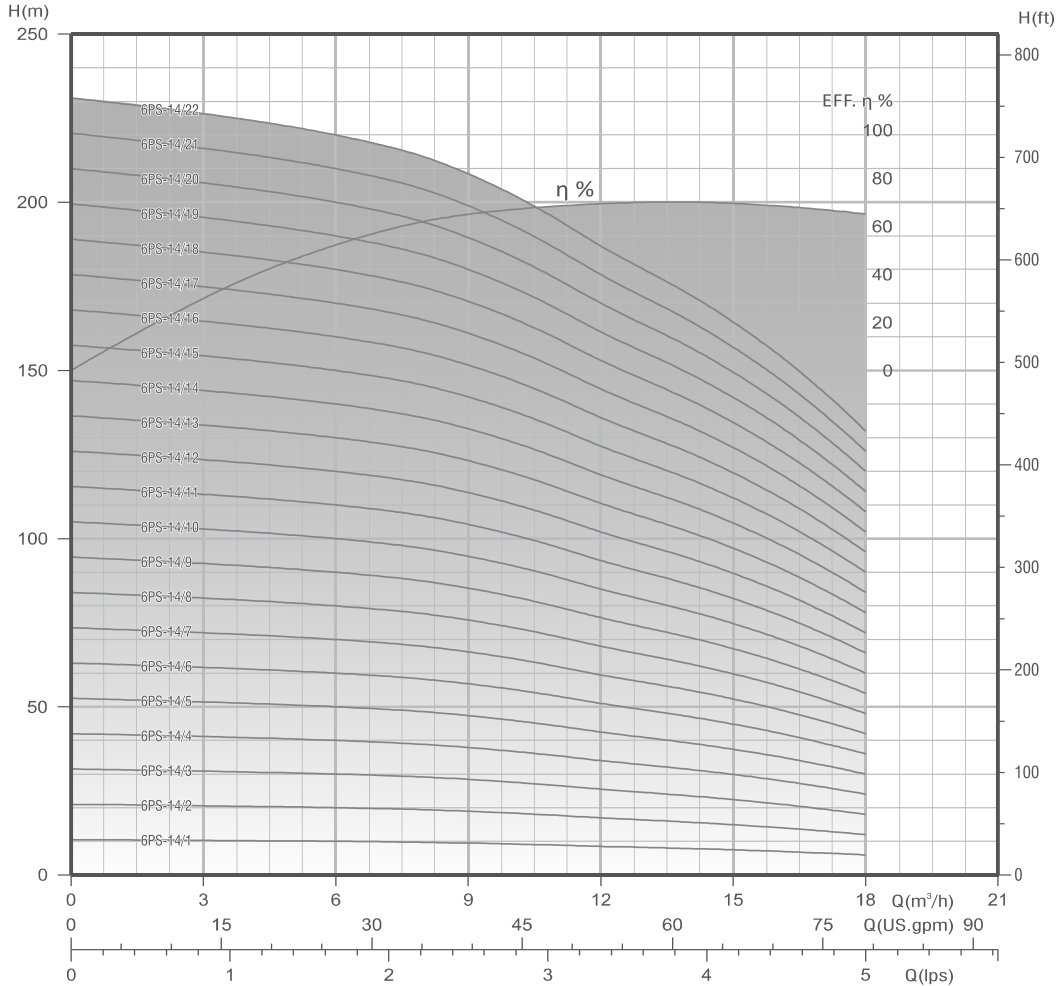
6PS-14

Nominal Flow: 14 m<sup>3</sup>/h

Outlet Size: 2 1/2"

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	10	11	12	14	16	18	Height L (mm)	Weight (kg)
	kW	HP		0	2.7	3.05	3.3	3.9	4.4	5		
6PS-14/1	0.55	0.75	Head(m)	11	9	9	9	8	7	6	434	13
6PS-14/2	1.1	1.5		21	18	18	17	16	14	12	494	13.6
6PS-14/3	1.5	2		32	28	27	26	24	21	18	554	14.4
6PS-14/4	2.2	3		42	37	35	34	31	28	24	614	15.2
6PS-14/5	2.2	3		53	46	44	43	39	35	30	674	16.2
6PS-14/6	3	4		63	55	53	51	47	42	36	734	17
6PS-14/7	3	4		74	64	62	60	55	49	42	794	17.6
6PS-14/8	4	5.5		84	74	71	68	63	56	48	854	18.4
6PS-14/9	4	5.5		95	83	80	77	71	63	54	914	19.3
6PS-14/10	5.5	7.5		105	92	89	85	79	70	60	974	20.2
6PS-14/11	5.5	7.5		116	101	98	94	86	78	66	1034	21
6PS-14/12	5.5	7.5		126	110	106	102	94	85	72	1094	21.8
6PS-14/13	7.5	10		137	120	115	111	102	92	78	1154	22
6PS-14/14	7.5	10		147	129	124	119	110	99	84	1214	22.5
6PS-14/15	7.5	10		158	138	133	128	118	106	90	1274	23.2
6PS-14/16	7.5	10		168	147	142	136	126	113	96	1334	24.2
6PS-14/17	9.3	12.5		179	156	151	145	133	120	102	1394	25.7
6PS-14/18	9.3	12.5		189	166	160	153	141	127	108	1454	26.6
6PS-14/19	9.3	12.5		200	175	168	162	149	134	114	1514	27.4
6PS-14/20	9.3	12.5		210	184	177	170	157	141	120	1574	28.2
6PS-14/21	11	15		221	193	186	179	165	148	126	1634	29
6PS-14/22	11	15		231	202	195	187	173	155	132	1694	29.7

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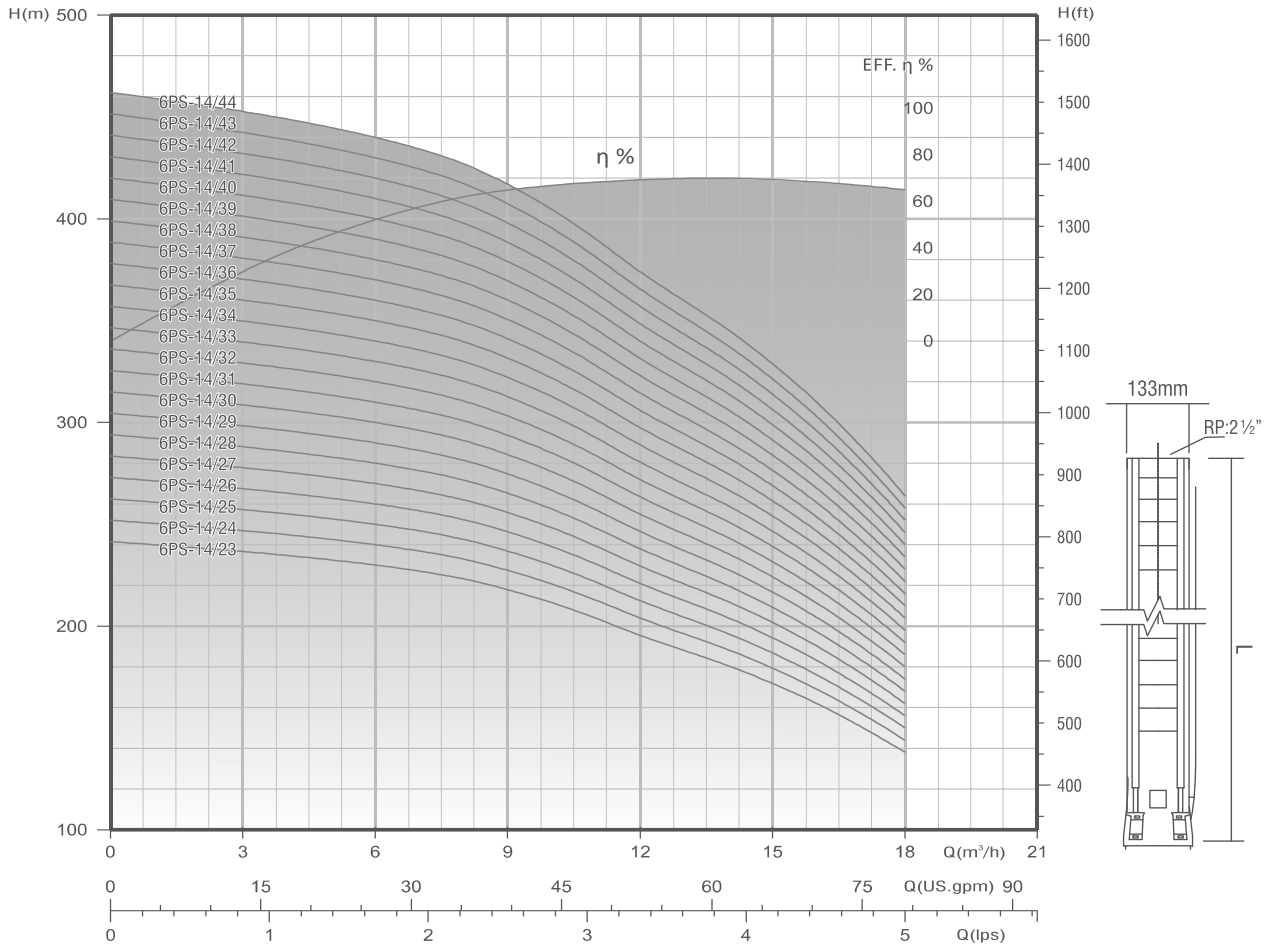
## 6PS-14

Nominal Flow: 14 m<sup>3</sup>/h

Outlet Size: 2 1/2"

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	10	11	12	14	16	18	Height L (mm)	Weight (kg)
	kW	HP		0	2.7	3.05	3.3	3.9	4.4	5		
6PS-14/23	11	15	Head(m)	242	211	204	196	181	162	138	1754	30.7
6PS-14/24	11	15		252	221	213	204	188	169	144	1814	31.3
6PS-14/25	13	17.5		263	230	222	213	196	176	150	1874	32.3
6PS-14/26	13	17.5		273	239	230	221	204	183	156	1934	33.1
6PS-14/27	13	17.5		284	248	239	230	212	190	162	1994	33.7
6PS-14/28	13	17.5		294	257	248	238	220	197	168	2054	34.7
6PS-14/29	15	20		305	267	257	247	228	204	174	2114	35.5
6PS-14/30	15	20		315	276	266	255	136	211	180	2174	36.1
6PS-14/31	15	20		326	285	272	264	243	218	186	2234	37.1
6PS-14/32	15	20		336	294	284	272	251	225	192	2294	37.7
6PS-14/33	15	20		347	303	293	281	259	233	198	2354	38.5
6PS-14/34	18.5	25		357	313	301	289	267	240	204	2414	39.5
6PS-14/35	18.5	25		368	322	310	298	275	247	210	2474	40.2
6PS-14/36	18.5	25		378	331	319	306	283	254	216	2534	41.2
6PS-14/37	18.5	25		389	340	328	315	290	261	222	2594	41.9
6PS-14/38	18.5	25		399	349	337	323	298	268	228	2654	42.7
6PS-14/39	18.5	25		410	359	346	332	306	275	234	2714	43.5
6PS-14/40	18.5	25	420	368	355	340	314	282	240	2774	44.3	
6PS-14/41	22	30	431	377	363	349	322	289	246	2934	46.7	
6PS-14/42	22	30	441	386	372	357	330	296	252	3074	48.3	
6PS-14/43	22	30	452	395	381	366	338	303	258	3214	50.6	
6PS-14/44	22	30	462	405	390	374	345	310	264	3354	53.2	

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

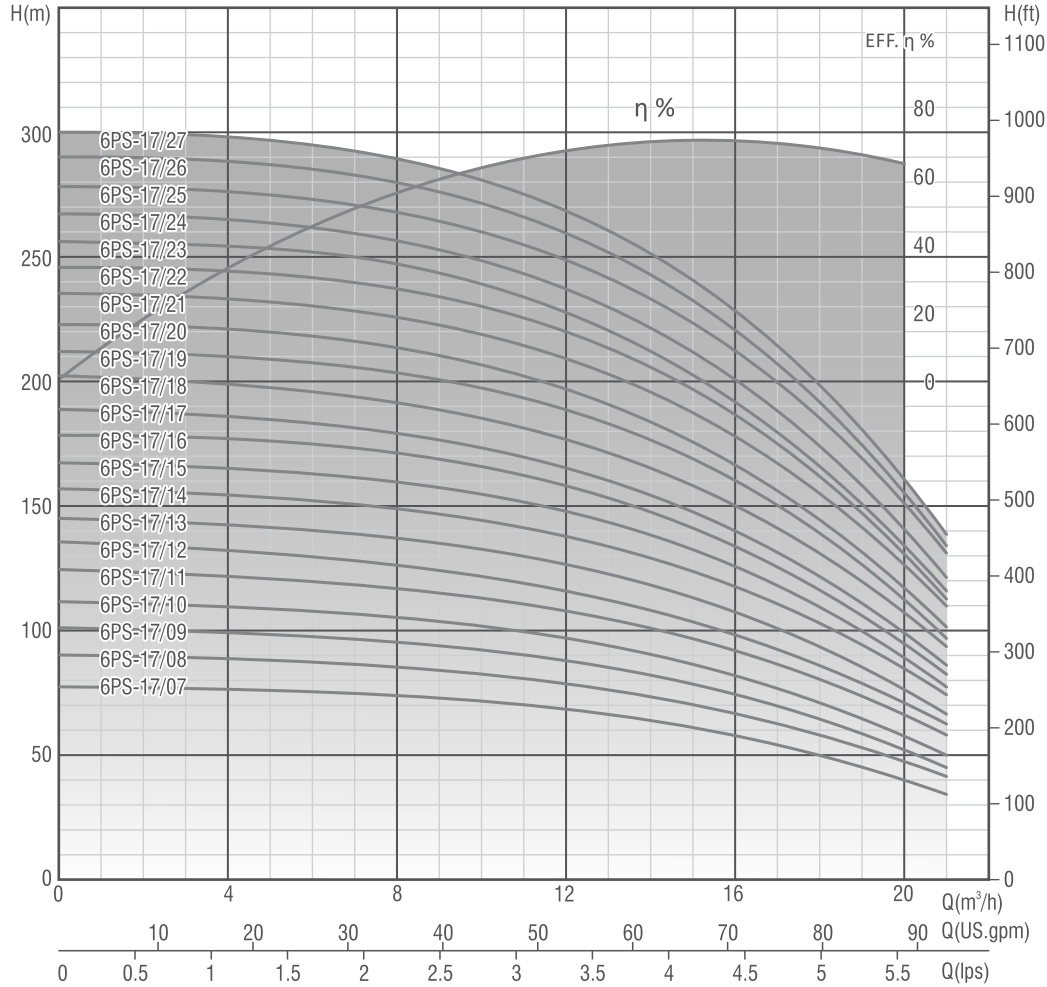
6PS-17

Nominal Flow: 17 m<sup>3</sup>/h

Outlet Size: 2½" / 3"\*

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	6	8	10	12	14	16	18	20	Height L (mm)	Weight (kg)
	kW	HP		0	1.7	2.2	2.8	3.3	3.9	4.4	5.0	5.6		
6PS-17/07	4	5.5	Head (m)	78	76	73	71	68	63	58	50	40	693	14
6PS-17/08	5.5	7.5		90	87	84	82	78	73	67	58	48	753	16
6PS-17/09	5.5	7.5		100	98	96	92	88	82	75	65	52	814	17
6PS-17/10	5.5	7.5		110	108	105	101	97	90	82	70	57	874	18
6PS-17/11	7.5	10		123	119	117	113	107	100	91	80	65	935	20
6PS-17/12	7.5	10		133	129	127	121	116	108	95	85	70	995	21
6PS-17/13	7.5	10		145	140	138	132	126	118	107	93	75	1056	23
6PS-17/14	9.3	12.5		156	152	149	144	137	129	118	102	84	1116	24
6PS-17/15	9.3	12.5		168	162	159	154	148	138	126	109	89	1177	26
6PS-17/16	9.3	12.5		179	174	171	166	158	147	133	116	95	1237	27
6PS-17/17	9.3	12.5		189	183	179	173	166	154	140	121	99	1298	29
6PS-17/18	11	15		201	196	191	185	176	165	150	130	107	1358	30
6PS-17/19	11	15		212	207	203	197	188	176	160	139	112	1419	31
6PS-17/20	11	15		222	218	213	206	197	183	166	144	117	1479	33
6PS-17/21	13	17.5		234	230	226	218	209	196	177	155	125	1540	34
6PS-17/22	13	17.5		246	241	237	230	219	205	187	161	130	1600	36
6PS-17/23	13	17.5		256	252	247	239	228	212	192	166	133	1661	37
6PS-17/24	13	17.5	266	262	256	248	237	221	200	173	140	1721	39	
6PS-17/25	15	20	279	273	268	260	248	233	211	184	150	1782	40	
6PS-17/26	15	20	290	284	280	271	259	243	220	191	155	1842	42	
6PS-17/27	15	20	300	295	289	280	268	251	228	199	160	1903	43	

\*Optional outlet size, on request.

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

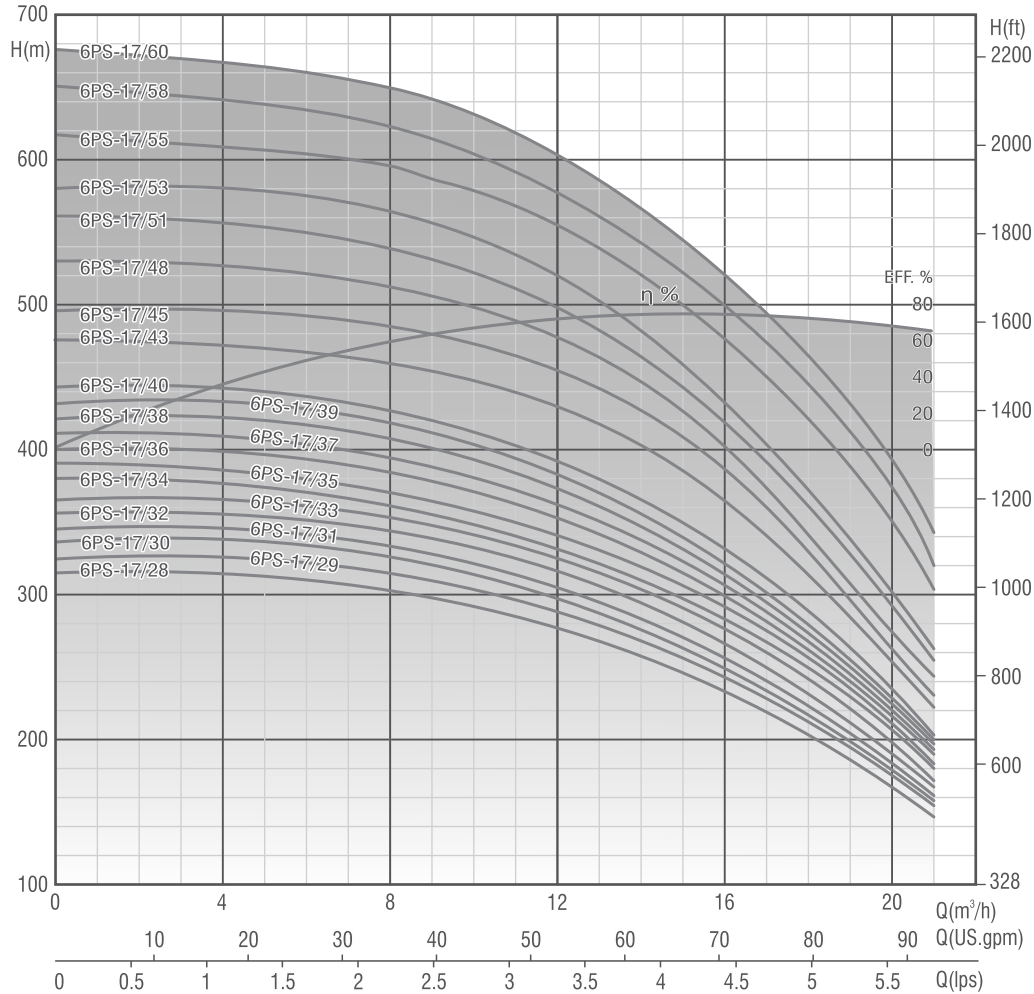
## 6PS-17

Nominal Flow: 17 m<sup>3</sup>/h

Outlet Size: 2½"/3"\*

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	8	12	14	16	18	20	Height L (mm)	Weight (kg)
	KW	HP		0	2.2	3.3	3.9	4.4	5	5.6		
6PS-17/28	18.5	25	Head (m)	314	303	276	254	234	202	166	1963	45
6PS-17/29	18.5	25		325	314	290	268	242	211	171	2024	46
6PS-17/30	18.5	25		336	325	298	274	248	218	177	2084	47
6PS-17/31	18.5	25		346	334	304	283	257	224	182	2145	49
6PS-17/32	18.5	25		356	344	314	292	266	230	188	2205	50
6PS-17/33	18.5	25		365	354	324	304	276	241	194	2266	52
6PS-17/34	22	30		380	360	331	310	283	247	200	2326	53
6PS-17/35	22	30		390	368	341	319	291	256	205	2387	55
6PS-17/36	22	30		400	384	352	328	300	261	211	2447	56
6PS-17/37	22	30		410	395	363	338	307	267	217	2508	58
6PS-17/38	22	30		420	407	371	347	314	273	223	2568	59
6PS-17/39	22	30		430	418	382	355	321	280	229	2629	60
6PS-17/40	22	30		442	426	390	365	330	289	235	2689	62
6PS-17/43	26	35		476	459	429	402	363	311	254	2750	63
6PS-17/45	26	35		496	485	454	426	385	329	262	2810	65
6PS-17/48	26	35		530	513	477	446	401	340	274	2871	68
6PS-17/51	30	40		560	538	497	464	418	360	292	3054	70
6PS-17/53	30	40		580	564	520	480	432	370	302	3176	72
6PS-17/55	37	50	618	599	553	516	475	424	367	3674	56.3	
6PS-17/58	37	50	650	630	580	544	498	442	384	3854	58.8	
6PS-17/60	45	60	671	651	600	560	513	462	395	3974	60.5	

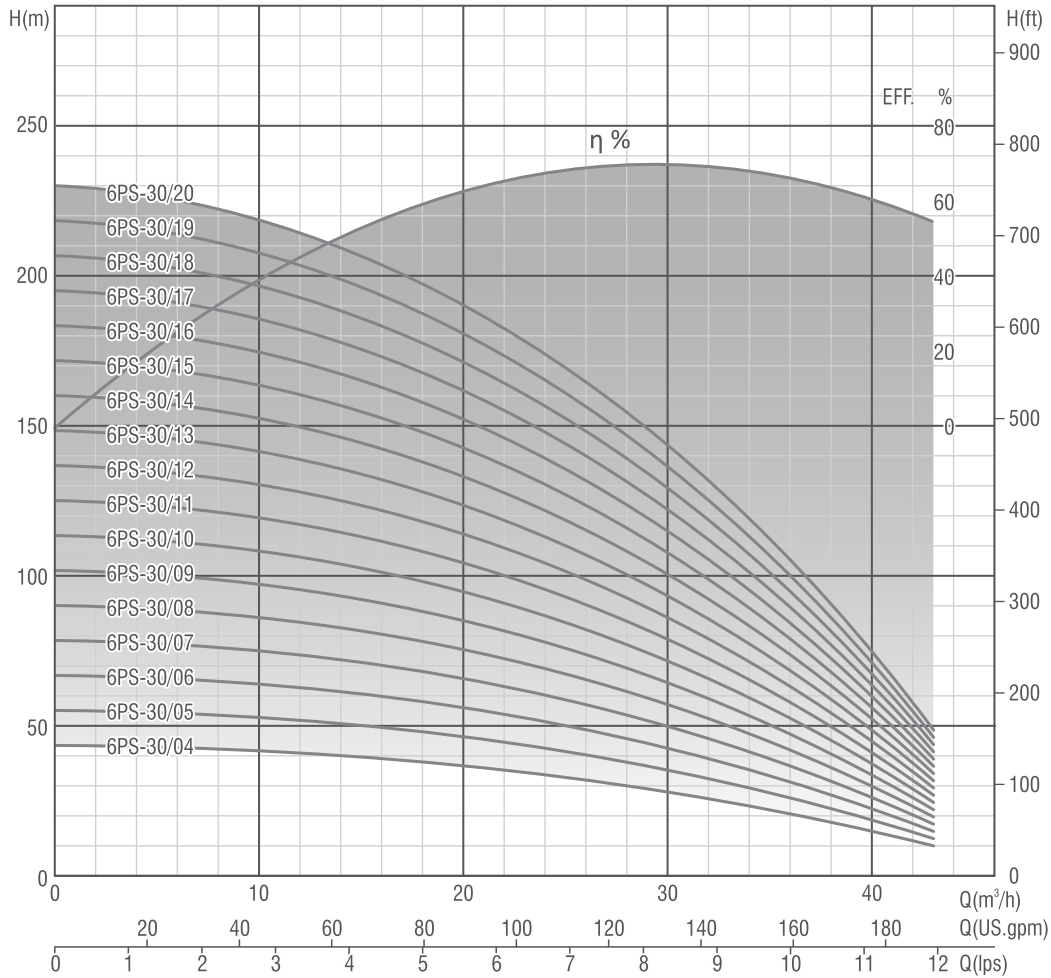
\*Optional outlet size, on request.

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

6PS-30

Nominal Flow: 30 m<sup>3</sup>/h  
Performance Curve

Outlet Size: 3"  
2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	Head (m)						Height L (mm)	Weight (kg)
	kW	HP		0	14.4	21.6	28.8	36	43.2		
6PS-30/04	4	5.5	43	39	35	29	20	10	649	13	
6PS-30/05	5.5	7.5	55	50	45	37	25	12	744	15	
6PS-30/06	5.5	7.5	67	60	54	44	31	15	839	17	
6PS-30/07	7.5	10	78	71	63	52	36	17	934	19	
6PS-30/08	7.5	10	90	82	73	59	42	19	1029	21	
6PS-30/09	9.3	12.5	101	93	82	67	47	22	1124	23	
6PS-30/10	9.3	12.5	112	103	92	75	52	24	1219	25	
6PS-30/11	9.3	12.5	124	113	101	83	57	24	1314	27	
6PS-30/12	11	15	137	124	110	90	62	29	1409	29	
6PS-30/13	11	15	148	134	120	98	68	31	1504	31	
6PS-30/14	13	17.5	160	146	129	105	73	34	1599	33	
6PS-30/15	13	17.5	171	156	139	112	78	36	1694	36	
6PS-30/16	15	20	183	166	147	120	83	39	1789	38	
6PS-30/17	15	20	194	176	157	128	89	42	1884	40	
6PS-30/18	18.5	25	207	187	166	135	94	44	1979	42	
6PS-30/19	18.5	25	218	198	175	143	100	47	2074	44	
6PS-30/20	18.5	25	229	208	185	151	105	49	2169	46	

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

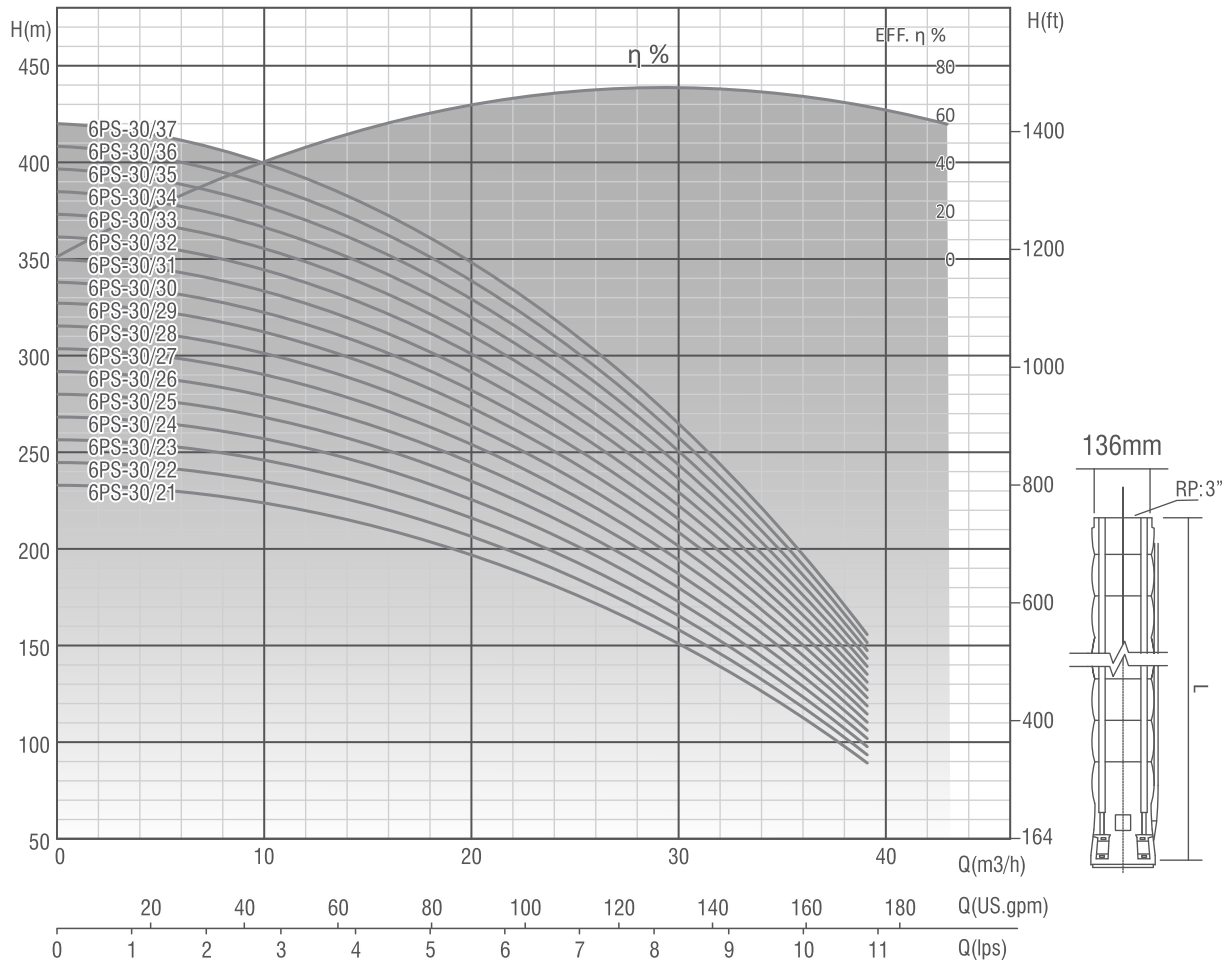
## 6PS-30

Nominal Flow: 30 m<sup>3</sup>/h

Outlet Size: 3"

Performance Curve

2900 rpm



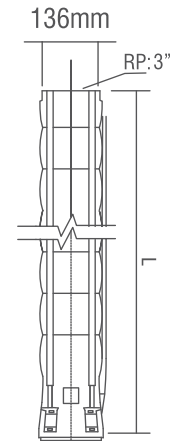
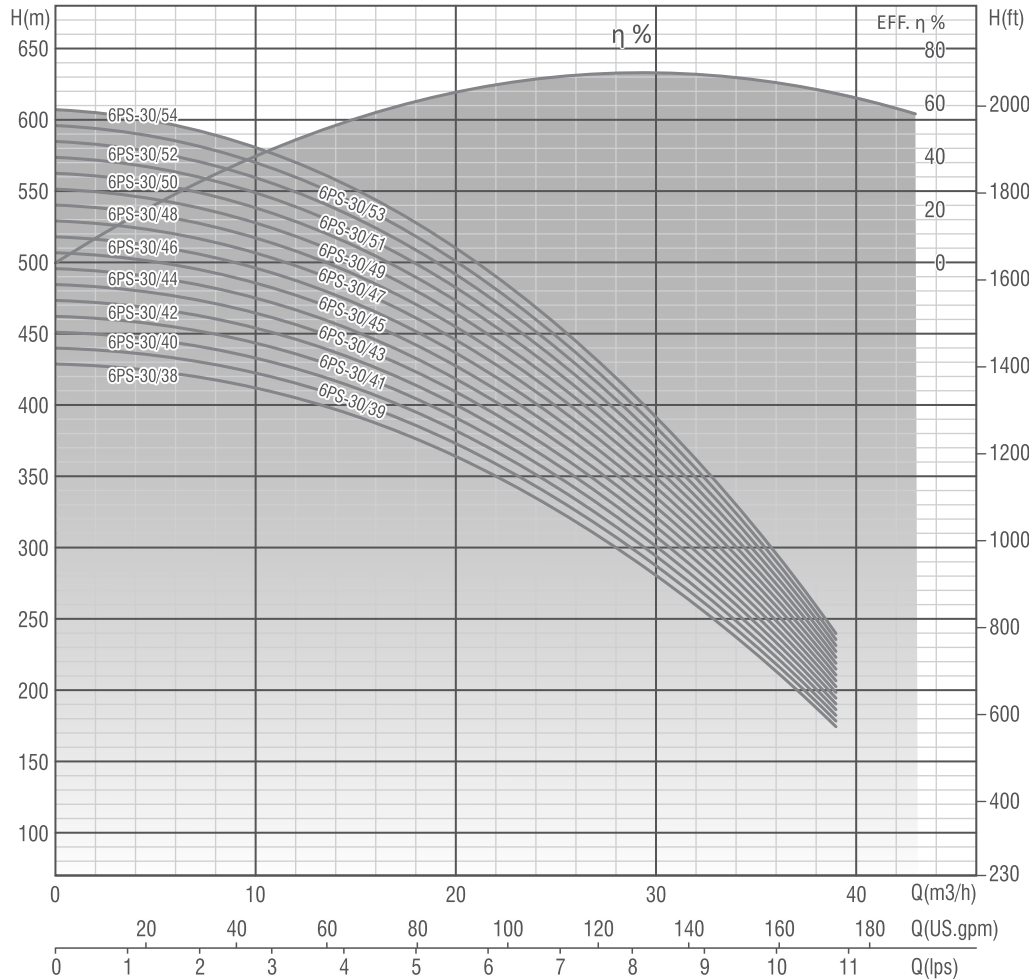
Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	14.4	21.6	28.8	36.0	39	Height L (mm)	Weight (kg)
	kW	HP		0	4	6	8	10	10.8		
6PS-30/21	18.5	25	Head(m)	232	213	190	153	102	89	2264	48
6PS-30/22	22	30		244	223	200	165	108	93	2359	50
6PS-30/23	22	30		257	233	210	172	113	97	2454	52
6PS-30/24	22	30		268	243	219	180	119	101	2549	54
6PS-30/25	22	30		280	254	228	188	125	105	2644	56
6PS-30/26	22	30		291	265	238	196	130	109	2739	58
6PS-30/27	26	35		302	275	247	203	136	113	2834	60
6PS-30/28	26	35		314	286	255	211	142	117	2929	63
6PS-30/29	26	35		327	297	264	219	148	122	3024	65
6PS-30/30	26	35		339	306	273	225	154	126	3119	67
6PS-30/31	26	35		350	317	282	232	159	130	3214	69
6PS-30/32	30	40		360	328	291	240	165	135	3309	71
6PS-30/33	30	40		372	338	300	248	172	139	3404	73
6PS-30/34	30	40		383	345	310	254	178	144	3499	75
6PS-30/35	30	40		397	358	319	261	185	148	3594	77
6PS-30/36	37	50		408	369	328	269	192	152	3689	79
6PS-30/37	37	50		420	379	338	277	197	157	3784	81

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

6PS-30

Nominal Flow: 30 m<sup>3</sup>/h  
Performance Curve

Outlet Size: 3"  
2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	14.4	21.6	28.8	36	39	Height L (mm)	Weight (kg)
	kW	HP		0	4	6	8	10	10.8		
6PS-30/38	37	50	Head(m)	430	394	355	292	211	173	3879	83
6PS-30/39	37	50		440	404	464	299	216	177	3974	124
6PS-30/40	37	50		450	414	373	306	221	181	4069	126
6PS-30/41	37	50		460	424	382	314	227	185	4164	129
6PS-30/42	37	50		471	434	391	321	232	190	4259	132
6PS-30/43	37	50		482	444	400	328	237	194	4354	134
6PS-30/44	45	60		494	454	409	335	242	198	4449	137
6PS-30/45	45	60		506	465	418	343	248	202	4544	139
6PS-30/46	45	60		517	475	427	250	253	208	4639	142
6PS-30/47	45	60		529	485	436	357	258	213	4734	145
6PS-30/48	45	60		540	495	445	364	264	217	4829	147
6PS-30/49	45	60		550	505	454	372	269	221	4924	150
6PS-30/50	55	75		560	515	463	379	275	225	5019	152
6PS-30/51	55	75		572	525	472	386	280	229	5114	155
6PS-30/52	55	75		584	535	481	393	285	234	5209	158
6PS-30/53	55	75		597	546	491	401	291	238	5304	160
6PS-30/54	55	75	608	556	501	408	297	242	5399	163	

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

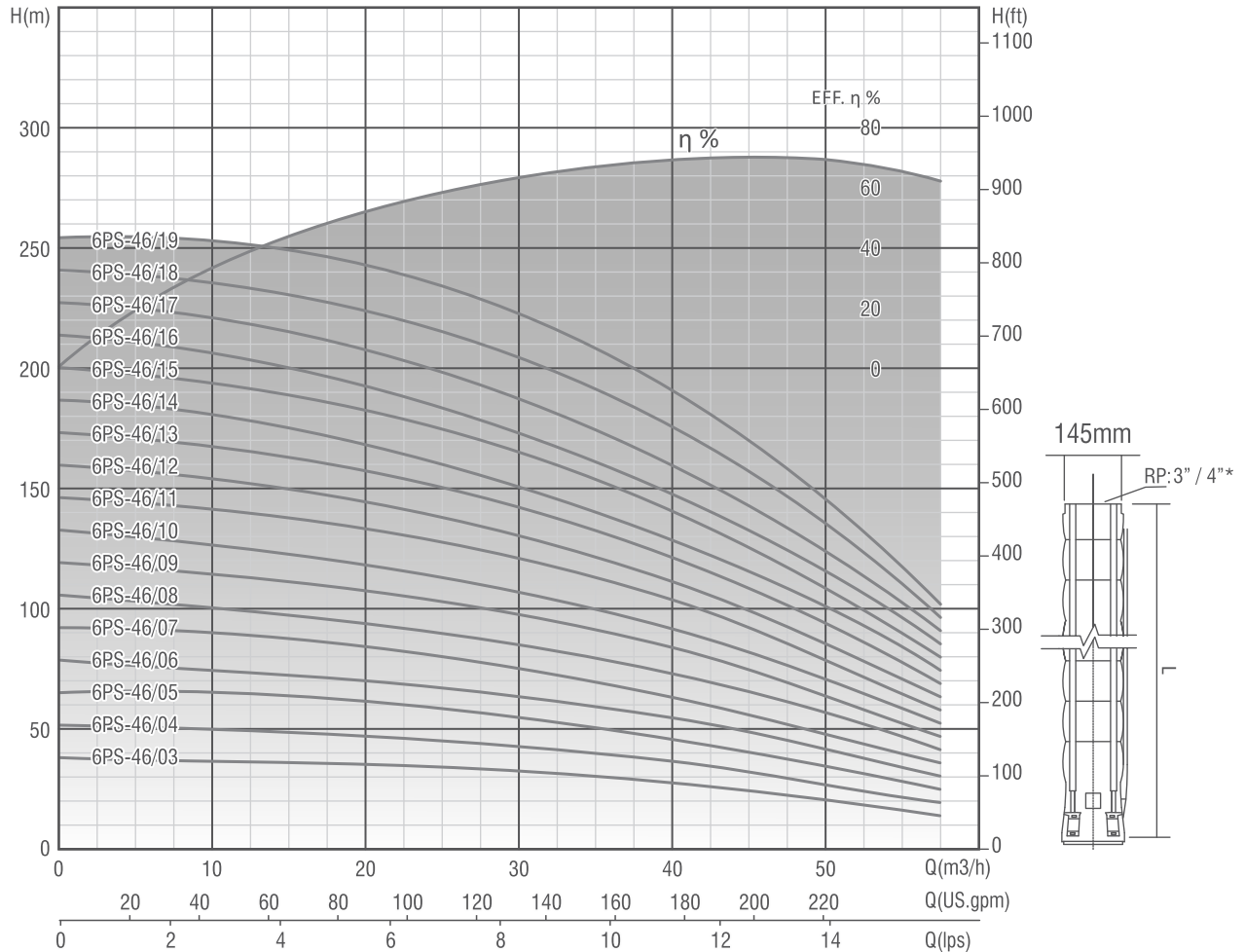
## 6PS-46

Nominal Flow: 46 m<sup>3</sup>/h

Outlet Size: 3" / 4"\*

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	28.8	36	46.8	58	Height L (mm)	Weight (kg)
	kW	HP		0	8	10	13	16.1		
6PS-46/03	5.5	7.5	Head(m)	37	34	30	23	13	606	12
6PS-46/04	7.5	10		51	43	40	31	18	718	15
6PS-46/05	7.5	10		64	57	50	38	23	830	18
6PS-46/06	9.3	12.5		78	64	59	47	28	942	20
6PS-46/07	11	15		90	77	69	55	34	1054	23
6PS-46/08	13	17.5		104	87	78	64	39	1166	26
6PS-46/09	15	20		119	100	90	73	44	1278	28
6PS-46/10	15	20		131	109	99	80	49	1390	31
6PS-46/11	18.5	25		146	123	111	89	56	1502	34
6PS-46/12	18.5	25		160	132	120	97	62	1614	36
6PS-46/13	22	30		172	145	131	106	68	1726	39
6PS-46/14	22	30		186	155	141	116	73	1838	42
6PS-46/15	22	30		200	170	152	123	78	1950	44
6PS-46/16	26	35		213	177	160	132	85	2062	47
6PS-46/17	26	35		227	187	169	139	90	2174	49
6PS-46/18	30	40		239	203	185	152	96	2286	52
6PS-46/19	30	40		253	228	207	162	102	2398	55

\*Optional outlet size, on request.

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

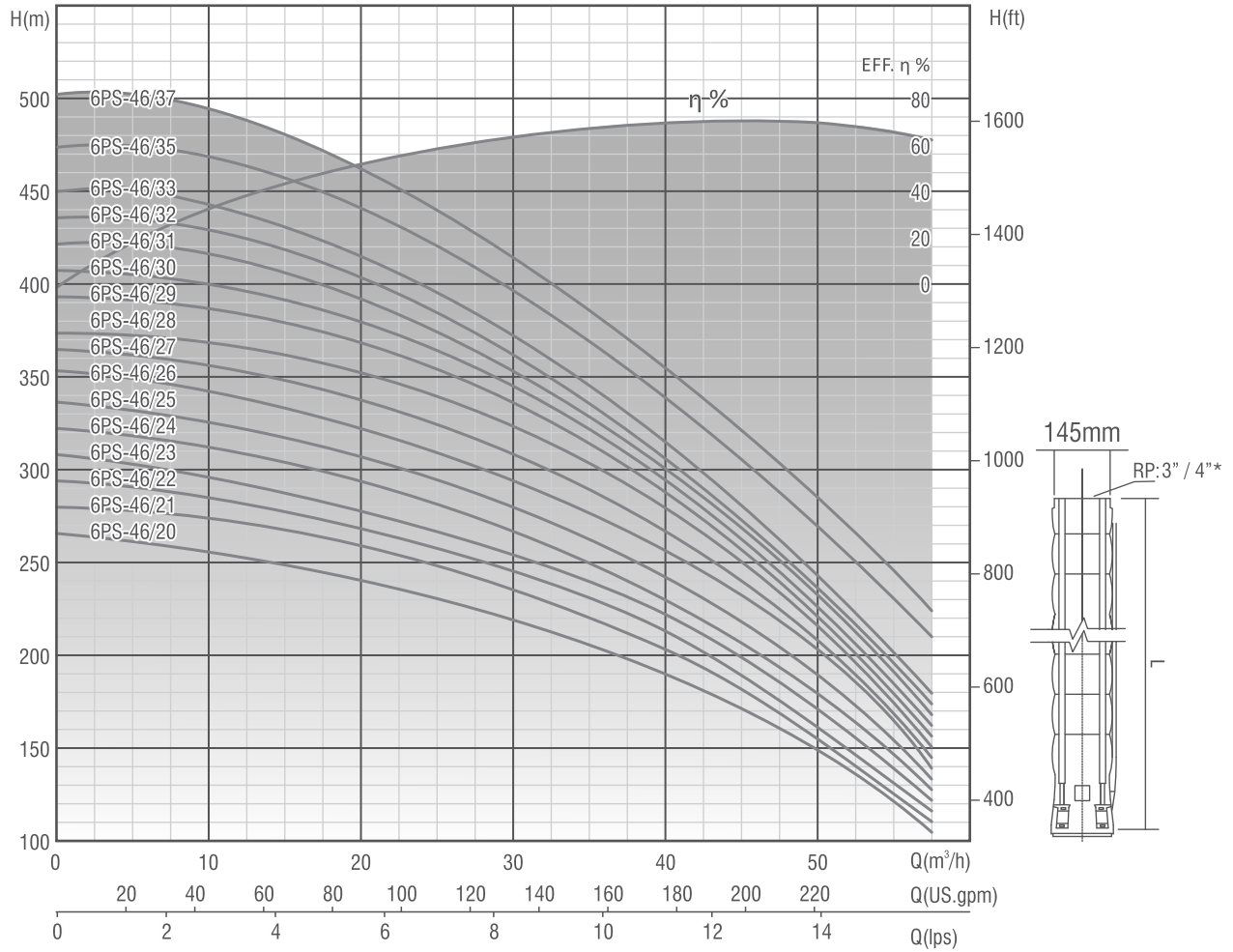
6PS-46

Nominal Flow: 46 m<sup>3</sup>/h

Outlet Size: 3" / 4"\*

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	28.8	36	46.8	58	Height L (mm)	Weight (kg)
	kW	HP		0	8	10	13	16.1		
6PS-46/20	30	40	Head(m)	264	222	204	167	104	2510	57
6PS-46/21	37	50		280	239	218	175	110	2622	60
6PS-46/22	37	50		293	250	229	182	116	2734	63
6PS-46/23	37	50		309	259	238	191	121	2846	65
6PS-46/24	37	50		321	270	248	200	127	2958	68
6PS-46/25	45	60		336	283	260	210	133	3070	71
6PS-46/26	45	60		352	298	272	220	139	3182	73
6PS-46/27	45	60		363	312	287	231	144	3294	76
6PS-46/28	45	60		373	328	301	240	150	3406	79
6PS-46/29	45	60		392	341	311	249	156	3518	81
6PS-46/30	45	60		408	350	319	253	162	3630	84
6PS-46/31	55	75		421	358	325	260	167	3742	86
6PS-46/32	55	75		435	368	332	263	173	3854	89
6PS-46/33	55	75		450	379	341	271	180	3966	92
6PS-46/35	55	75		473	401	365	296	210	4078	95
6PS-46/37	63	85		502	422	387	310	225	4190	98

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

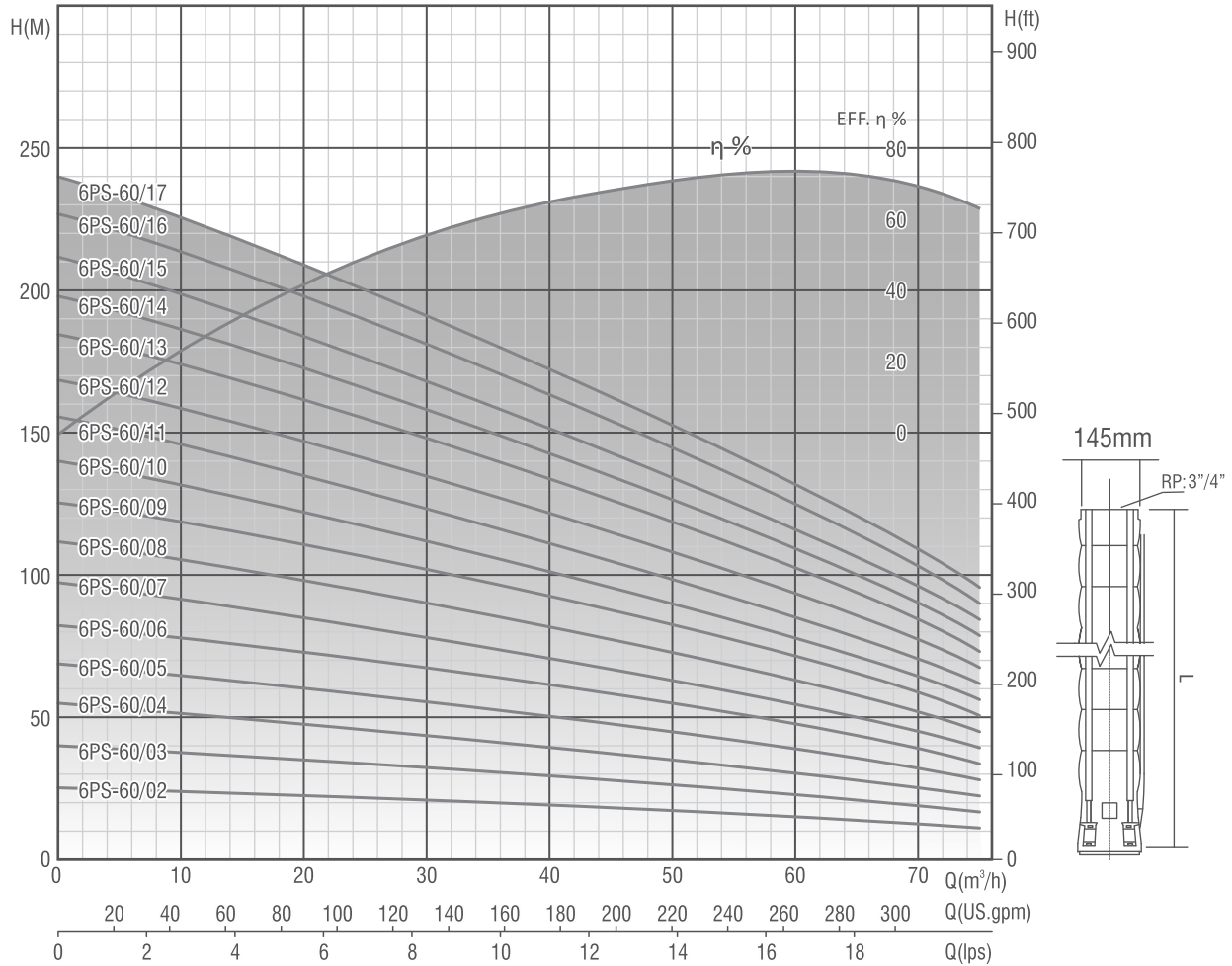
## 6PS-60

Nominal Flow: 60 m<sup>3</sup>/h

Outlet Size: 3"/4"\*

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	20	40	50	60	70	75	Height L (mm)	Weight (kg)
	kW	HP		0	5.55	11.11	13.89	16.67	19.44	20.83		
6PS-60/02	4	5.5	Head(m)	25	22	19	17	14	12	11	494	10
6PS-60/03	5.5	7.5		40	35	29	26	22	18	16	606	12
6PS-60/04	7.5	10		54	48	39	35	30	24	21	718	15
6PS-60/05	9.3	12.5		69	60	50	44	38	30	26	830	18
6PS-60/06	11	15		82	72	61	54	45	36	31	942	20
6PS-60/07	13	17.5		97	85	70	62	53	43	37	1054	23
6PS-60/08	15	20		111	98	81	72	61	49	42	1166	26
6PS-60/09	18.5	25		124	110	92	82	71	55	47	1278	28
6PS-60/10	18.5	25		140	122	101	90	78	61	52	1390	31
6PS-60/11	22	30		155	134	111	99	84	67	57	1502	34
6PS-60/12	22	30		167	147	121	108	93	74	63	1614	36
6PS-60/13	26	35		183	161	133	118	102	80	69	1726	39
6PS-60/14	26	35		198	172	143	126	110	86	74	1838	42
6PS-60/15	26	35		211	183	151	134	116	92	80	1950	44
6PS-60/16	30	40		227	198	163	144	125	99	86	2062	47
6PS-60/17	30	40		240	204	172	153	132	109	92	2174	50

\*Optional outlet size, on request.

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

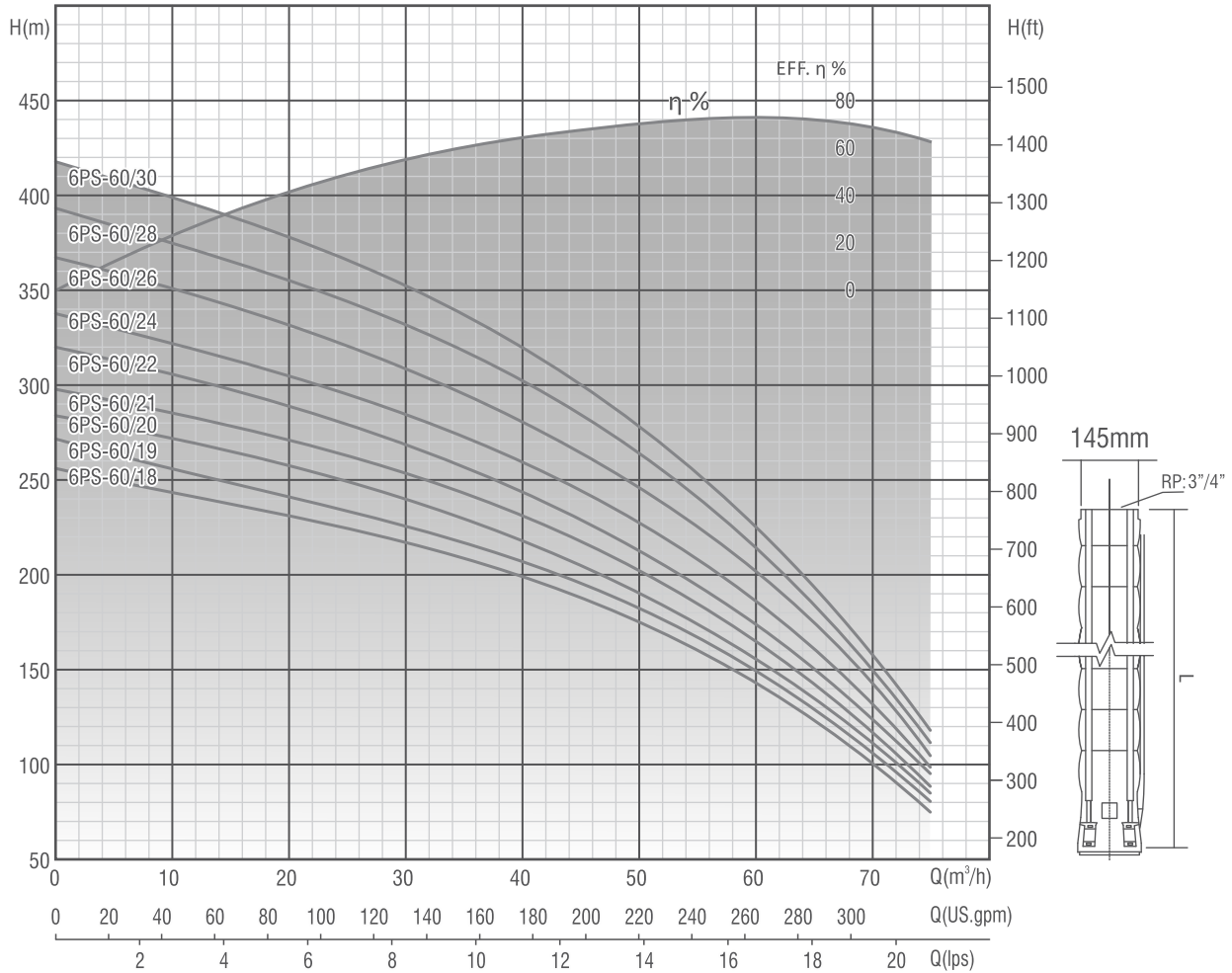
6PS-60

Nominal Flow: 60 m<sup>3</sup>/h

Outlet Size: 3"/4"

Performance Curve

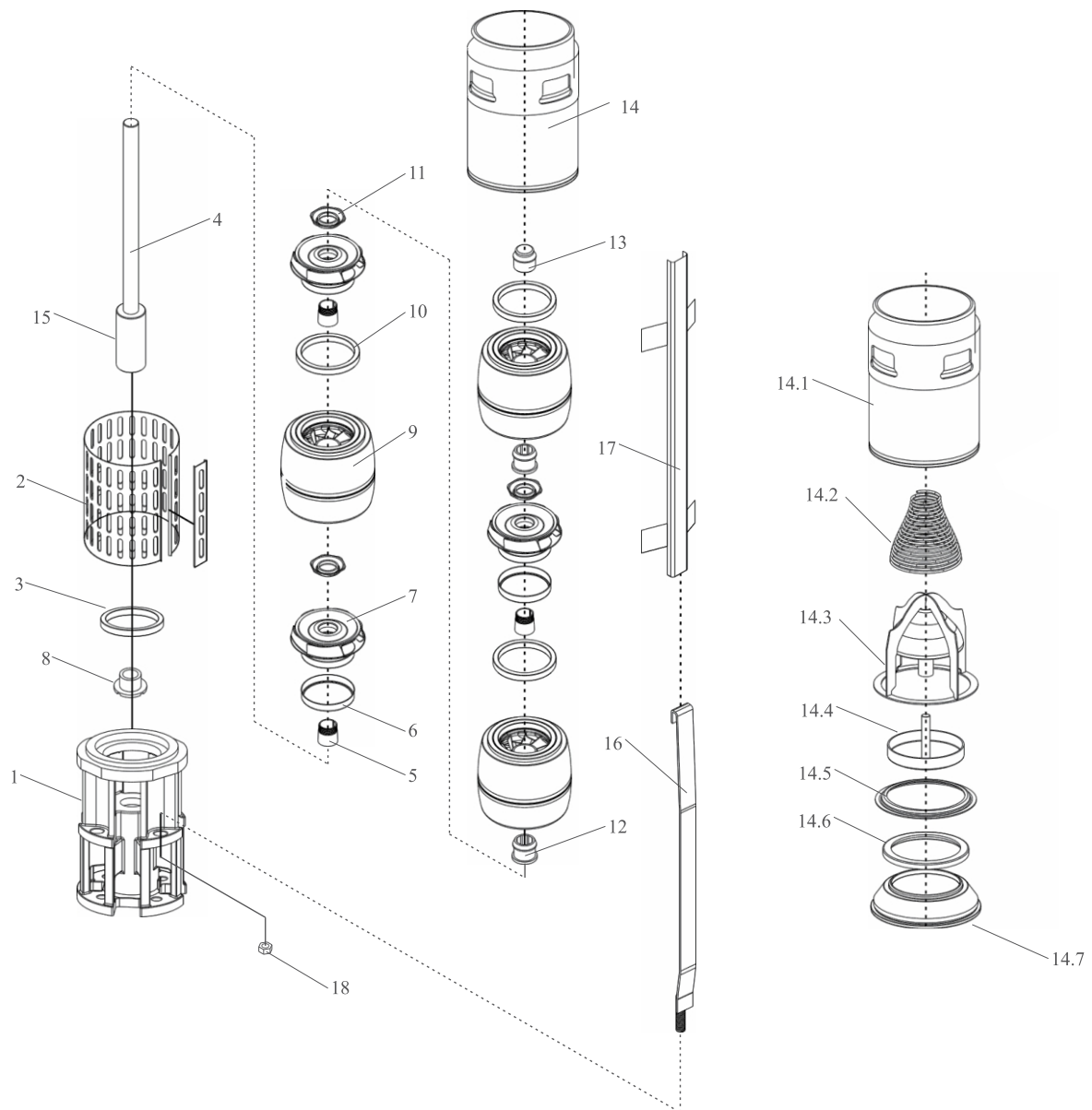
2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	30	43	58	72	76	Height L (mm)	Weight (kg)
	kW	HP		0	8.3	11.9	16.2	20	21.1		
6PS-60/18	37	50	Head(m)	254	217	192	150	90	73	2286	52
6PS-60/19	37	50		269	225	200	156	96	79	2398	55
6PS-60/20	37	50		282	239	209	162	102	85	2510	58
6PS-60/21	37	50		298	252	222	172	108	91	2622	60
6PS-60/22	45	60		319	268	233	181	115	97	2734	63
6PS-60/24	45	60		338	283	250	193	121	103	2958	68
6PS-60/26	55	75		368	308	270	210	127	109	3182	73
6PS-60/28	55	75		392	331	281	223	133	115	3406	79
6PS-60/30	55	75		418	352	309	245	140	120	3630	84

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

## 8" & 10" Exploded View: 8PS & 10PS Models



Part No.	Part Name
1	Suction Housing
2	Strainer
3	Suction Housing Wear Ring
4	Pump Shaft
5	Split Cone
6	Impeller Wear Ring
7	Impeller
8	Up Thrust Bush
9	Diffuser
10	Diffuser Wear Ring
11	Split Cone Nut
12	Bush Bearing
13	Upper Bearing

Part No.	Part Name
14	Discharge Housing Assembly
14.1	Discharge Housing
14.2	Check Valve Spring
14.3	Check Valve Guide
14.4	Check Valve Disc
14.5	Seat Retainer
14.6	Check Valve Seat
14.7	Seat Retainer
15	Coupling
16	Locking Strap
17	Cable Guard
18	Locking Strap Nut

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

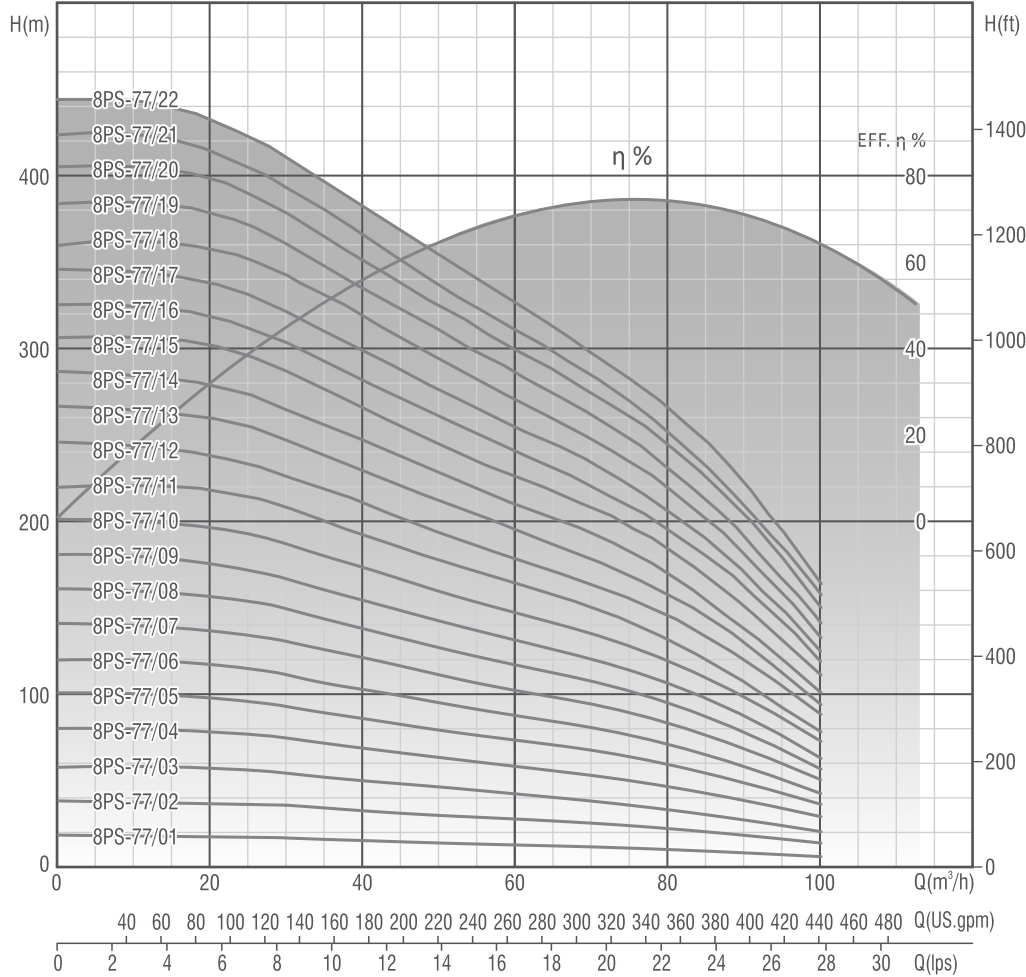
8PS-77

Nominal Flow: 77 m<sup>3</sup>/h

Outlet Size: 4”/5”\*

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	57.6	64.8	72	79.2	86.4	96	Height L (mm)	Weight (kg)
	kW	HP		0	16	18	20	22	24	26.7		
8PS-77/01	5.5	7.5	Head (m)	19	18	15	14	13	11	6	571	26
8PS-77/02	7.5	10		38	37	33	30	28	23	14	699	30
8PS-77/03	11	15		58	58	50	46	42	33	21	827	34
8PS-77/04	15	20		80	79	69	64	58	47	30	955	38
8PS-77/05	18.5	25		101	98	86	79	74	59	36	1083	42
8PS-77/06	22	30		120	117	103	95	88	71	43	1211	46
8PS-77/07	26	35		141	137	121	111	102	83	71	1339	50
8PS-77/08	30	40		161	156	138	127	117	95	57	1467	54
8PS-77/09	30	40		181	176	154	142	131	106	63	1595	58
8PS-77/10	37	50		201	196	173	159	147	119	73	1723	62
8PS-77/11	37	50		217	216	190	176	162	131	77	1851	66
8PS-77/12	45	60		243	236	208	191	177	144	88	1979	70
8PS-77/13	55	75		264	257	227	210	193	156	93	2107	74
8PS-77/14	55	75		284	276	244	225	208	168	100	2235	78
8PS-77/15	55	75		303	299	263	242	223	183	110	2363	82
8PS-77/16	63	85		322	315	279	258	238	194	118	2491	86
8PS-77/17	63	85		342	335	296	273	252	204	124	2619	89
8PS-77/18	63	85		356	354	316	291	268	217	132	2747	93
8PS-77/19	75	100		380	375	331	307	283	229	140	2875	97
8PS-77/20	75	100		403	394	345	321	296	241	149	3003	101
8PS-77/21	75	100		419	409	367	334	308	249	156	3131	105
8PS-77/22	93	125		439	428	379	349	323	264	163	3259	109

\*Optional outlet size, on request.

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

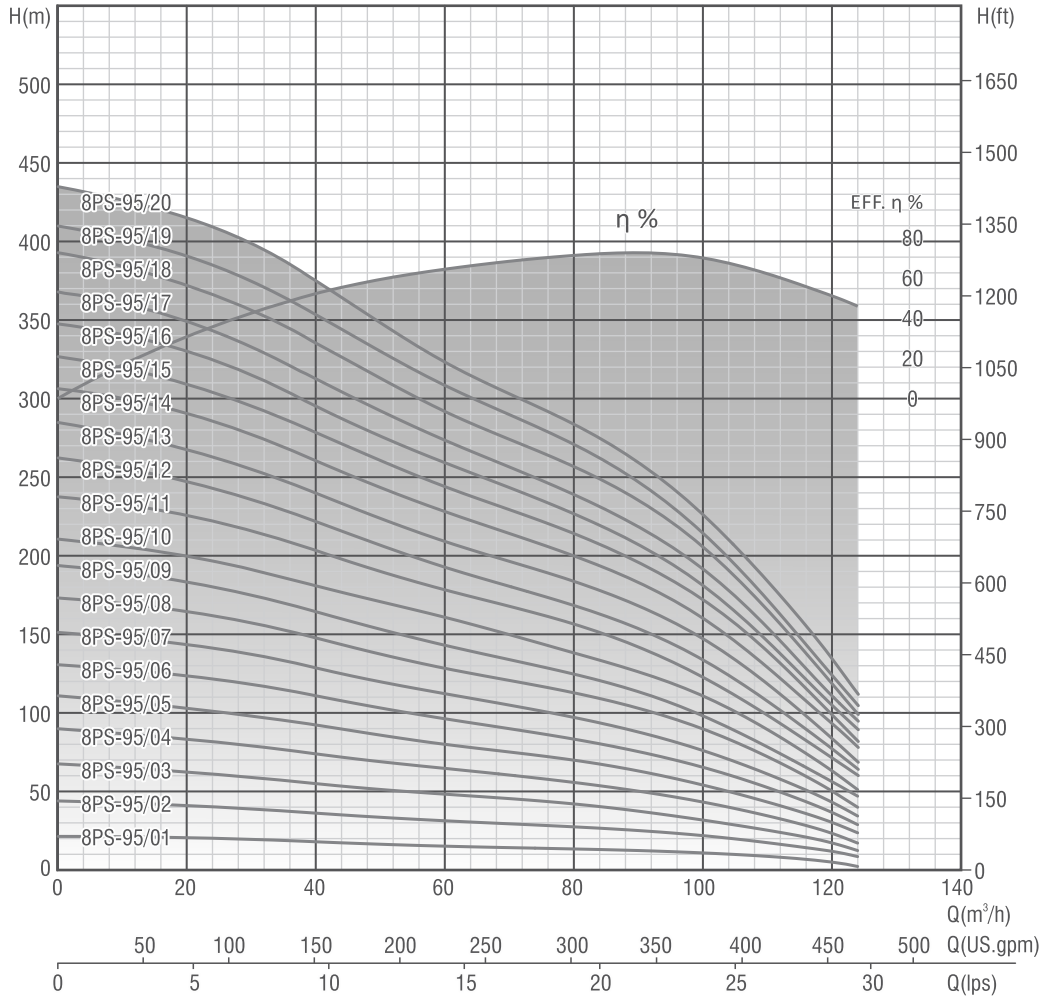
## 8PS-95

Nominal Flow: 95 m<sup>3</sup>/h

Outlet Size: 5"

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	20	40	60	80	100	120	126	Height L (mm)	Weight (kg)
	kW	HP		0	5.6	11.1	16.7	22.2	27.8	33.3	35		
8PS-95/01	5.5	7.5	Head(m)	20	19	17	14	13	11	6	2	617	21
8PS-95/02	9.3	12.5		42	40	35	30	27	22	13	8	746	24.7
8PS-95/03	13	17.5		66	61	54	47	42	32	19	12	875	28.6
8PS-95/04	18.5	25		88	82	73	64	56	43	26	17	1004	32.5
8PS-95/05	22	30		109	101	92	79	70	55	33	24	1133	36.4
8PS-95/06	26	35		129	122	110	96	84	66	40	29	1262	40.4
8PS-95/07	30	40		149	142	128	112	97	77	47	34	1391	44.3
8PS-95/08	37	50		171	163	147	129	113	91	54	40	1520	48.2
8PS-95/09	37	50		192	182	164	143	125	100	60	47	1649	52.1
8PS-95/10	45	60		209	198	180	161	139	112	68	51	1778	56.1
8PS-95/11	55	75		236	226	203	178	157	126	77	60	1907	60
8PS-95/12	55	75		261	246	221	193	169	137	83	64	2036	63.9
8PS-95/13	55	75		283	266	240	209	185	150	90	69	2165	67.9
8PS-95/14	63	85		304	289	261	228	201	164	100	78	2294	71.8
8PS-95/15	75	100		324	308	279	245	215	175	106	57	2423	75.7
8PS-95/16	75	100		346	329	295	260	228	185	112	89	2552	79.6
8PS-95/17	75	100		366	348	313	274	241	195	119	95	2681	83.6
8PS-95/18	93	125		391	371	335	293	258	210	128	99	2810	87.5
8PS-95/19	93	125		408	390	354	309	273	219	133	105	2939	91.4
8PS-95/20	93	125		433	414	375	324	285	231	145	112	3068	95.4

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

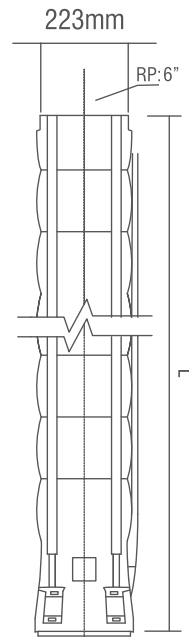
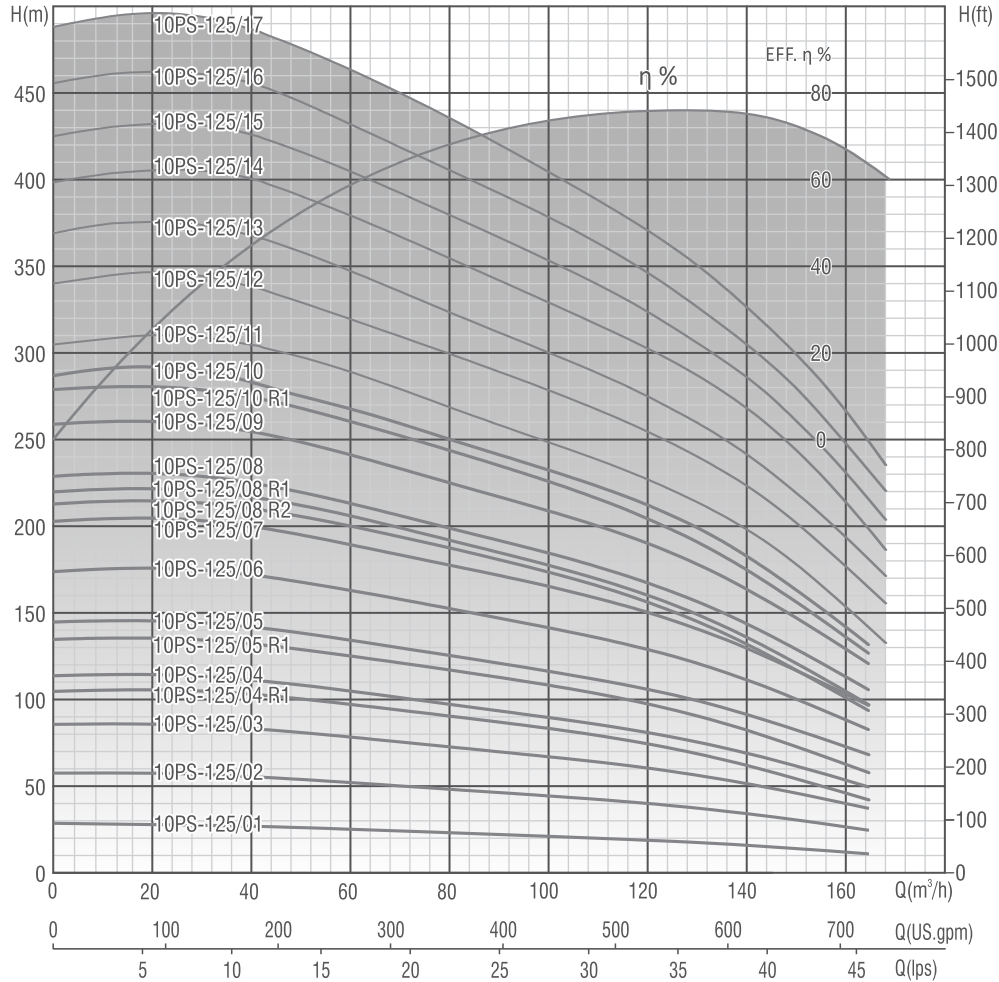
# 10PS-125

Nominal Flow: 125 m<sup>3</sup>/h

Outlet Size: 6"

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	50	75	100	125	150	160	Height L (mm)	Weight (kg)
	kW	HP		0	13.88	20.83	27.77	34.72	41.66	44.44		
10PS-125/01	11	15	Head (m)	29	26	24	21	18	14	12	682	30.45
10PS-125/02	22	30		58	56	49	44	38	30	25	836	36.65
10PS-125/03	30	40		86	81	74	66	56	45	37	990	43.35
10PS-125/04R1	37	50		105	100	92	83	70	52	43	1144	49.95
10PS-125/04	37	50		114	108	99	90	78	60	50	1144	49.95
10PS-125/05R1	45	60		135	129	119	108	93	70	58	1298	56.55
10PS-125/05	55	75		144	134	127	116	102	80	68	1298	56.55
10PS-125/06	63	85		174	166	154	140	123	97	93	1452	63.25
10PS-125/07	75	100		202	194	180	164	144	114	97	1606	69.85
10PS-125/08R2	75	100		213	204	190	172	148	114	94	1760	76.55
10PS-125/08R1	75	100		220	212	194	176	152	117	97	1760	76.55
10PS-125/08	75	100		228	219	202	183	160	124	106	1760	76.55
10PS-125/09	93	125		259	238	228	208	182	142	122	1914	83.15
10PS-125/10R1	93	125		279	268	247	226	195	152	127	2068	89.75
10PS-125/10	93	125		287	274	254	231	204	158	132	2068	85.25
10PS-125/11	110	150		308	300	274	249	219	170	140	2222	91.3
10PS-125/12	132	175		343	330	305	278	246	192	162	2376	97.35
10PS-125/13	132	175	372	358	328	299	264	210	177	2530	103.4	
10PS-125/14	150	200	400	390	360	328	292	232	192	2684	109.45	
10PS-125/15	150	200	426	416	384	351	310	248	209	2838	115.5	
10PS-125/16	170	225	456	443	410	376	330	265	225	2992	121.55	
10PS-125/17	170	225	488	473	440	400	352	286	240	3146	127.6	

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

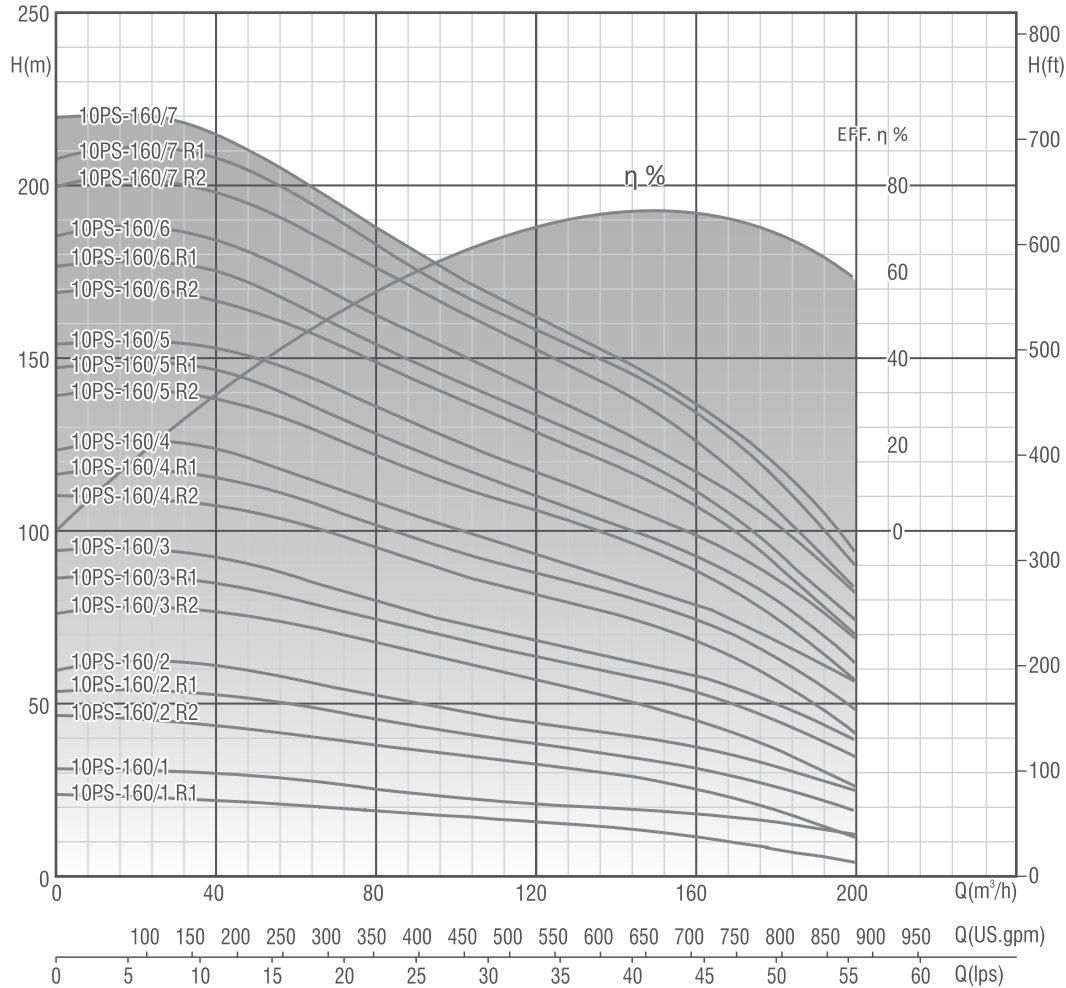
## 10PS-160

Nominal Flow: 160 m<sup>3</sup>/h

Outlet Size: 6"

Performance Curve

2900 rpm



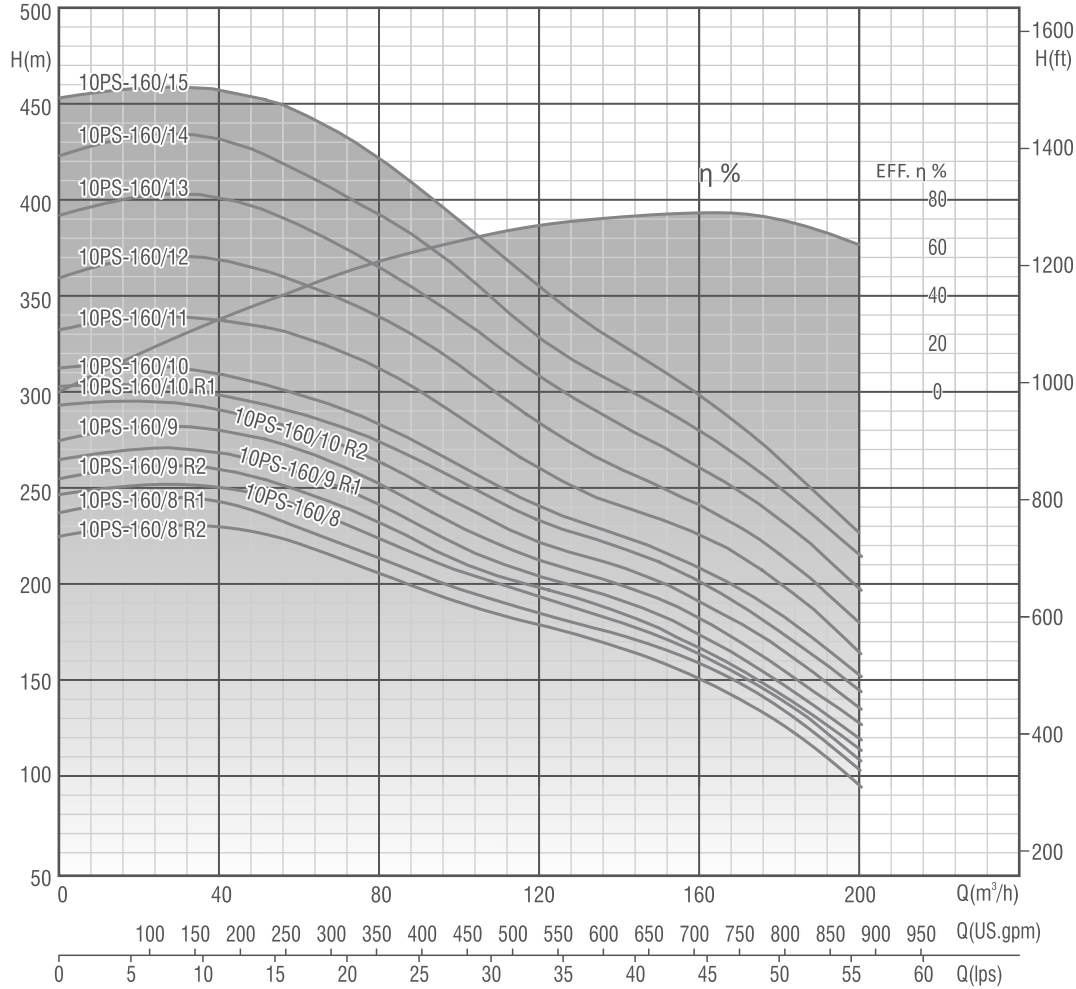
Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	50	80	120	160	200	Height L (mm)	Weight (kg)
	KW	HP		0	13.9	22.2	33.4	44.5	55.6		
10PS-160/1 R1	9.3	12.5	Head(m)	25	22	20.5	17	13	6	646	29.5
10PS-160/1	13	17.5		33	30	26.5	23	20	14.5	646	29.5
10PS-160/2 R2	18.5	25		48	44	39	34	27	14	802	35.6
10PS-160/2 R1	22	30		55	52	47	40	33	20.5	802	35.6
10PS-160/2	26	35		61	60	54	46	39	27	802	35.6
10PS-160/3 R2	30	40		77	75	69	59	47	28	958	42.3
10PS-160/3 R1	37	50		87.5	84	76	65	55	36	958	42.3
10PS-160/3	37	50		95.5	91	80.5	70	60	41	958	42.3
10PS-160/4 R2	45	60		111	106	96	83	70	44	1114	49
10PS-160/4 R1	45	60		117	114	103	88.5	76	50	1114	49
10PS-160/4	55	75		124.5	120	110	95	80	59	1114	49
10PS-160/5 R2	55	75		140	186	123	107	90	59.5	1270	55.7
10PS-160/5 R1	55	75		148	144	129	111	95	64	1270	55.7
10PS-160/5	63	85		155	150	136.5	118	100	71	1270	55.7
10PS-160/6 R2	63	85		169	163	150	129	108.5	72	1426	62.4
10PS-160/6 R1	75	100		177	170	155	135	113	76	1426	62.4
10PS-160/6	75	100		186	180	165	142	119	84	1426	62.4
10PS-160/7 R2	75	100		200	193	177	153	127	86	1582	69
10PS-160/7 R1	93	125		208	203	184	159	136	92	1582	69
10PS-160/7	93	125		220	209	188.5	163	138	96	1582	69

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

# 10PS-160

Nominal Flow: 160 m<sup>3</sup>/h  
Performance Curve

Outlet Size: 6"  
2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	50	80	120	160	200	Height L (mm)	Weight (kg)
	kW	HP		0	13.9	22.2	33.4	44.5	55.6		
10PS-160/8 R2	93	125	Head(m)	230	223	203	175	147	97	1738	75.7
10PS-160/8 R1	93	125		240	231	209	180	153	104	1738	75.7
10PS-160/8	93	125		247.5	239	216	188.5	156.5	108	1738	75.7
10PS-160/9 R2	110	150		255	251	229	193	160	105	1894	82.4
10PS-160/9 R1	110	150		265	263	238	200	167	112	1894	82.4
10PS-160/9	110	150		275	273	249	207	176	120	1894	82.4
10PS-160/10 R2	110	150		294	283	260	218	185	178	2050	89.1
10PS-160/10 R1	132	175		304	289	270	228	195	138	2050	89.1
10PS-160/10	132	175		310	300	280	233	200	140	2050	89.1
10PS-160/11	132	175		333	328	309	255	220	156	2206	95.8
10PS-160/12	150	200		360	358	338	279	235	173	2362	102.4
10PS-160/13	170	225		392	389	362	304	255	190	2518	109.1
10PS-160/14	170	225		423	418	389	324	274	208	2674	115.8
10PS-160/15	187	250		453	450	419	350	292	220	2830	122.5

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

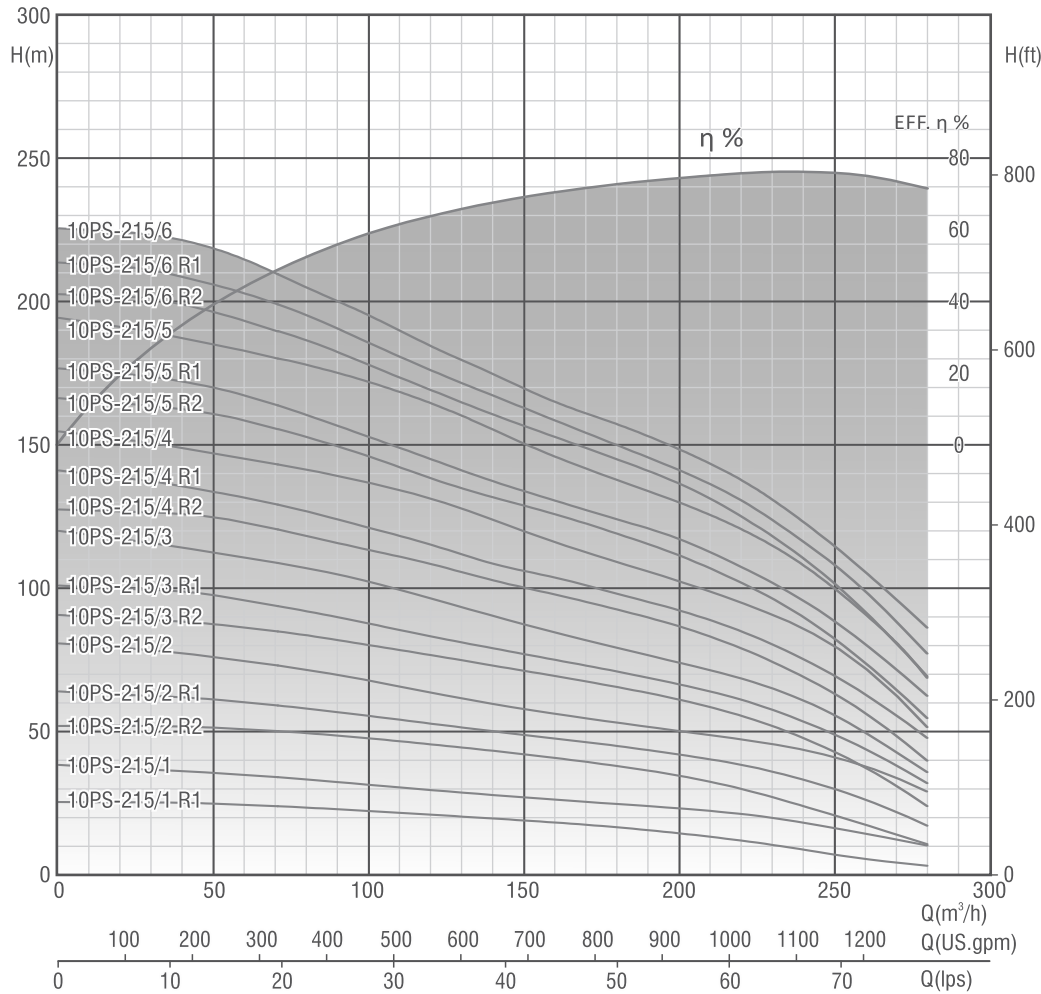
## 10PS-215

Nominal Flow: 215 m<sup>3</sup>/h

Outlet Size: 6"

Performance Curve

2900 rpm



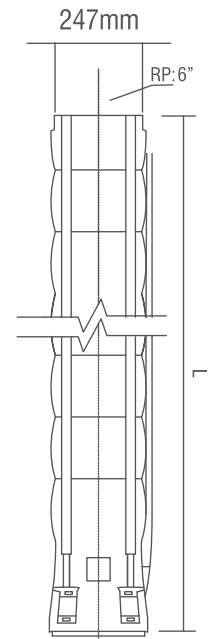
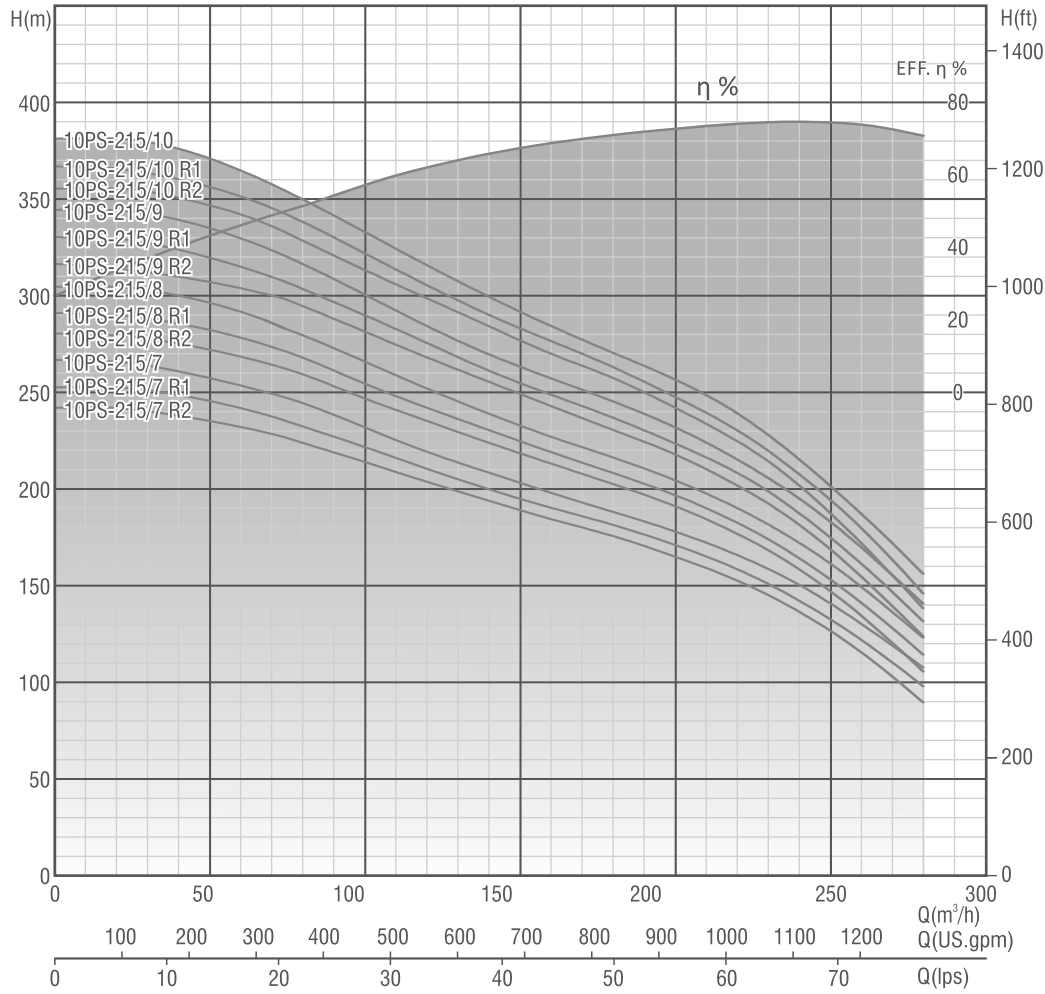
Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	Q(m <sup>3</sup> /h)							Height L (mm)	Weight (kg)	
	kW	HP		0	50	100	150	200	215	250			280
10PS-215/1 R1	15	20	Head (m)	26	25	23	19	15	13	7	4	793	53
10PS-215/1	18.5	25		38	36	32	27	23.5	22	16.5	10.5	793	53
10PS-215/2 R2	30	40		53	52	49	42	35	31	21	11	969	66
10PS-215/2 R1	37	50		64	61	55	49	42	40	30	18	969	66
10PS-215/2	45	60		82	76	68	58	50	48	41	29.5	969	66
10PS-215/3 R2	55	75		90	88	80	71	61	58	43	24	1145	78
10PS-215/3 R1	55	75		101	97	88	76	66	63	49	33	1145	78
10PS-215/3	63	85		120	112	102	87	74	70	56	32	1145	78
10PS-215/4 R2	75	100		127	125	114	101	86	81	64	40	1321	91
10PS-215/4 R1	75	100		138	134	121	106	92	87	70	48	1321	91
10PS-215/4	75	100		156	147	137	120	102	97	80	52	1321	91
10PS-215/5 R2	93	125		165	161	146	129	111	105	83	55	1497	103
10PS-215/5 R1	93	125		175	170	153	134	118	110	89	63	1497	103
10PS-215/5	93	125		196	185	146	150	128	123	100	69	1497	103
10PS-215/6 R2	110	150		201	196	153	156	136	128	101	70	1673	116
10PS-215/6 R1	110	150		212	206	172	163	141	134	109	78	1673	116
10PS-215/6	110	150		225	218	178	170	148	140	115	86	1673	116

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

# 10PS-215

Nominal Flow: 215 m<sup>3</sup>/h  
Performance Curve

Outlet Size: 6"  
2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	50	100	150	200	215	250	280	Height L (mm)	Weight (kg)
	KW	HP		0	13.89	27.78	41.67	55.56	59.72	69.44	77.78		
10PS-215/7 R2	132	175	Head (m)	242	236	186	189	165	156	126	90	1849	128
10PS-215/7 R1	132	175		252	246	195	195	171	162	33	99	1849	128
10PS-215/7	132	175		267	258	214	203	178	169	140	107	1849	128
10PS-215/8 R2	150	200		281	273	222	218	191	181	148	106	2025	141
10PS-215/8 R1	150	200		286	282	232	225	197	186	153	114	2025	141
10PS-215/8	150	200		308	295	248	232	204	194	161	12.4	2025	141
10PS-215/9 R2	170	225		319	311	255	249	218	206	169	124	2201	153
10PS-215/9 R1	170	225		330	321	265	255	224	213	175	132	2201	153
10PS-215/9	170	225		344	335	281	263	231	219	183	140	2201	153
10PS-215/10 R2	187	250		355	346	290	277	242	230	183	138	2377	166
10PS-215/10 R1	187	250		367	356	300	283	248	235	195	146	2377	166
10PS-215/10	187	250		381	370	314	291	256	245	201	156	2377	166

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

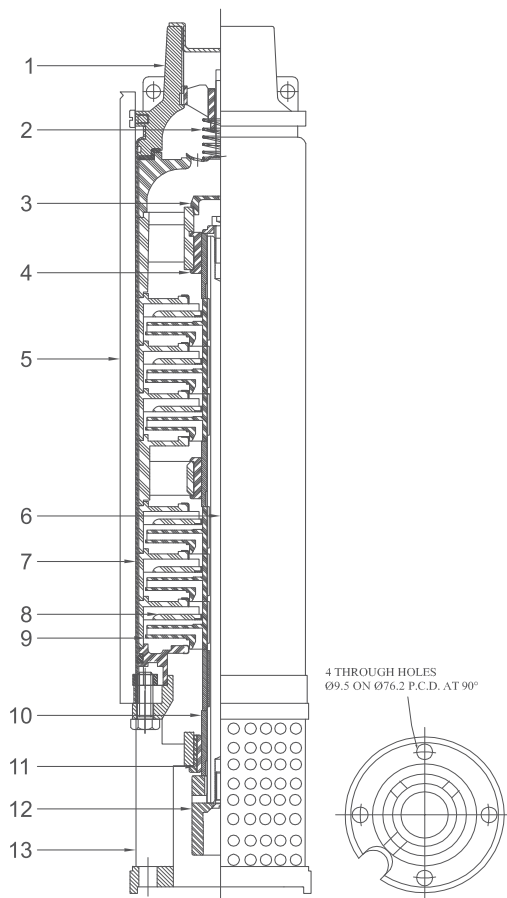
# X-ORA SERIES



## Technical Specification

SERIES		3" X-ORA	4" X-ORA
Model		3PP	4PP
Power Range	kW	0.37 to 1.5 kW	0.37 to 7.5 kW
	HP	0.5 to 2.0 HP	0.5 to 10 HP
Nominal Outlet size	Inch	1", 1.25" & 1.5"	1.25", 1.5" & 2"
	mm	25, 32 & 40	32, 40 & 50
Speed	rpm	2880	2880
Discharge range	m <sup>3</sup> /h	1.0 to 6.0	0.2 to 21
	lpm	16.67 to 100	3.5 to 350
	lps	0.28 to 1.67	0.06 to 5.8
Head range	m	10 to 95	10 to 490
	ft	33 to 310	32 to 1608
Max. Outer Diameter	mm	75	97

### Cross Sectional Drawing: Vista & Zento



Sr. No.	PART NAME	MATERIAL
1	DISCHARGE HOUSING	CASTED SS410
2	CHECK VALVE ASSY.	STAINLESS STEEL
3	BOWL CAP	LDPE
4	PUMP SLEEVE	HARD CHROMED
5	CABLE GUARD	SS410
6	PUMP SHAFT	SS420/431
7	PUMP SHELL	STAINLESS STEEL
8	DIFFUSER CHAMBER	NORYL GFN2
9	IMPELLER	NORYL GFN2
10	BEARING BUSH	NITRILE RUBBER
11	STRAINER	STAINLESS STEEL
12	COUPLING	STAINLESS STEEL
13	SUCTION HOUSING	CASTED SS410

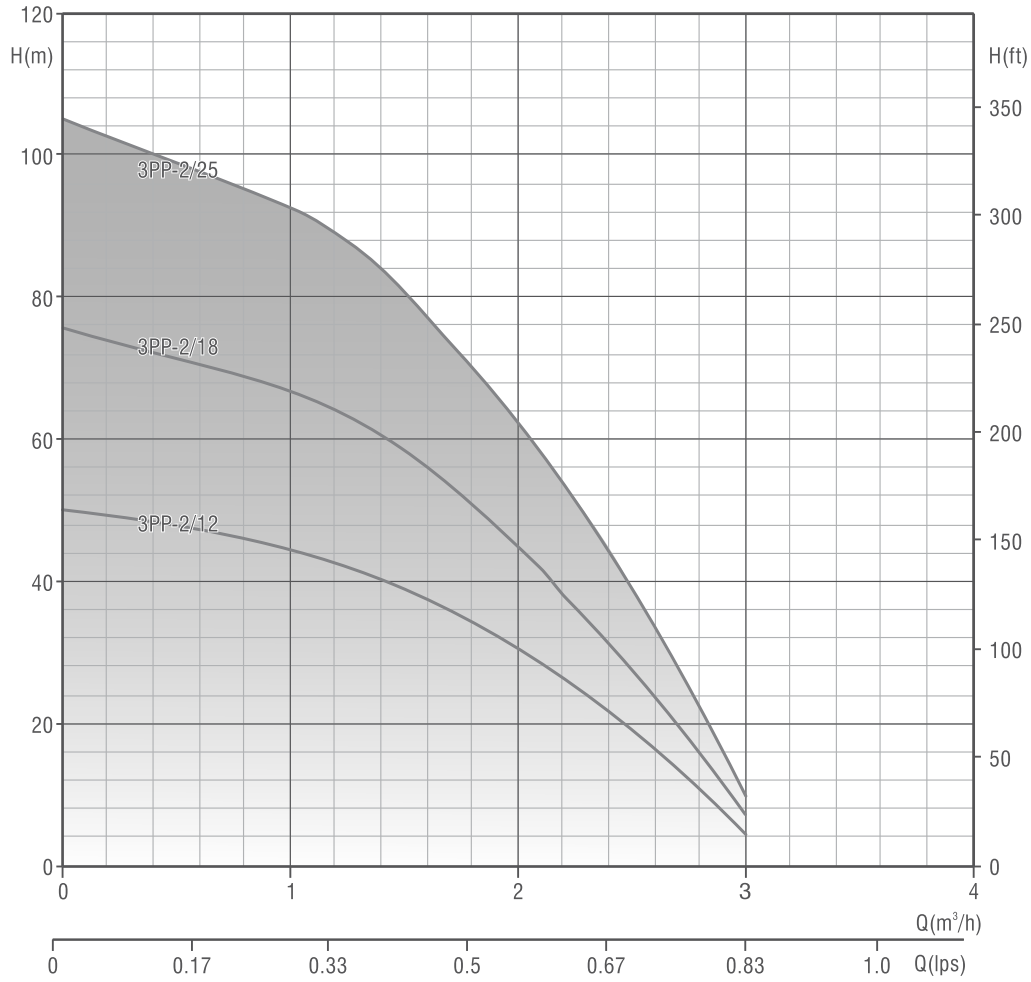
3PP-2

Nominal Flow: 2 m<sup>3</sup>/h

Outlet Size: 1 1/4"

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h)	0	1	1.4	1.6	1.9	2.1	2.5	3
	kW	HP	Q(lps)	0	0.28	0.4	0.45	0.52	0.58	0.7	0.83
3PP-2/12	0.37	0.5	Head (m)	50	44	40	37	32	28	18	5
3PP-2/18	0.55	0.75		76	67	60	56	49	42	27	7
3PP-2/25	0.75	1		105	93	84	78	68	59	38	10

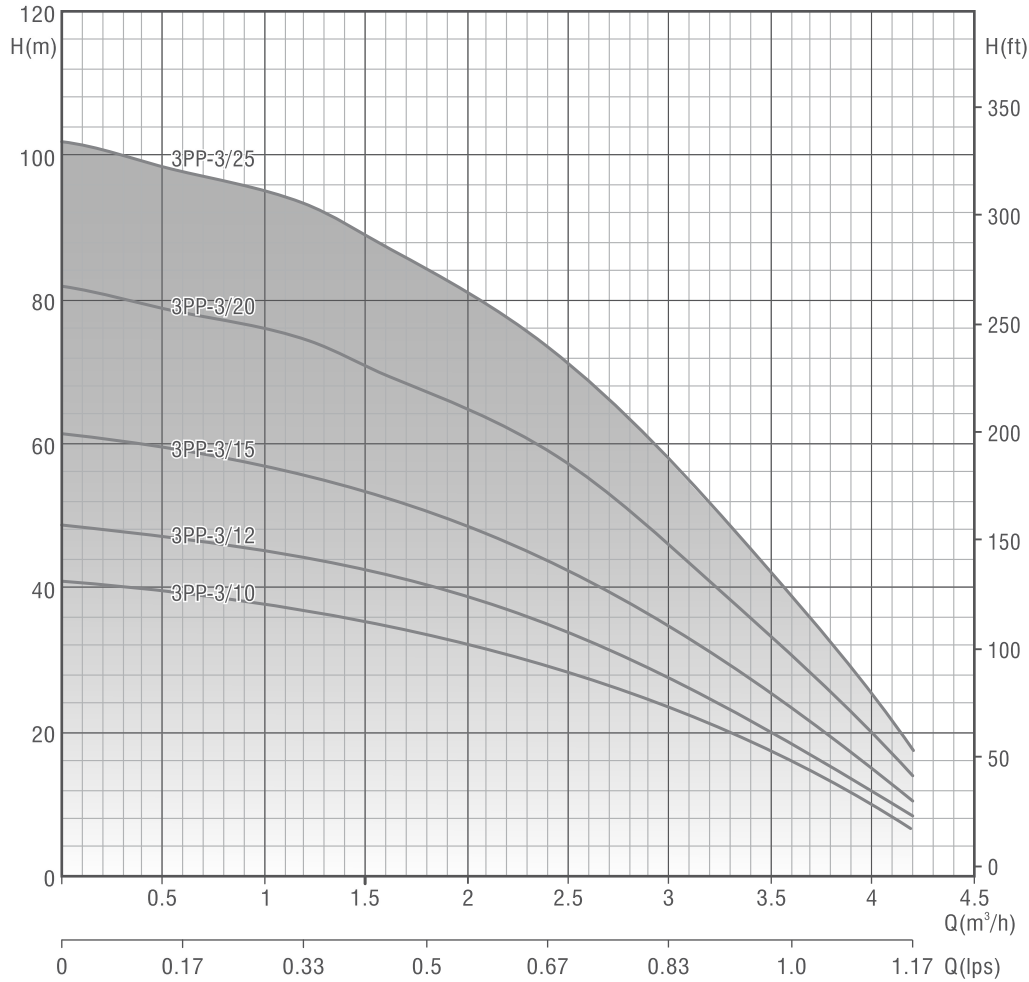
## 3PP-3

Nominal Flow: 3 m<sup>3</sup>/h

Outlet Size: 1¼"

Performance Curve

2900 rpm



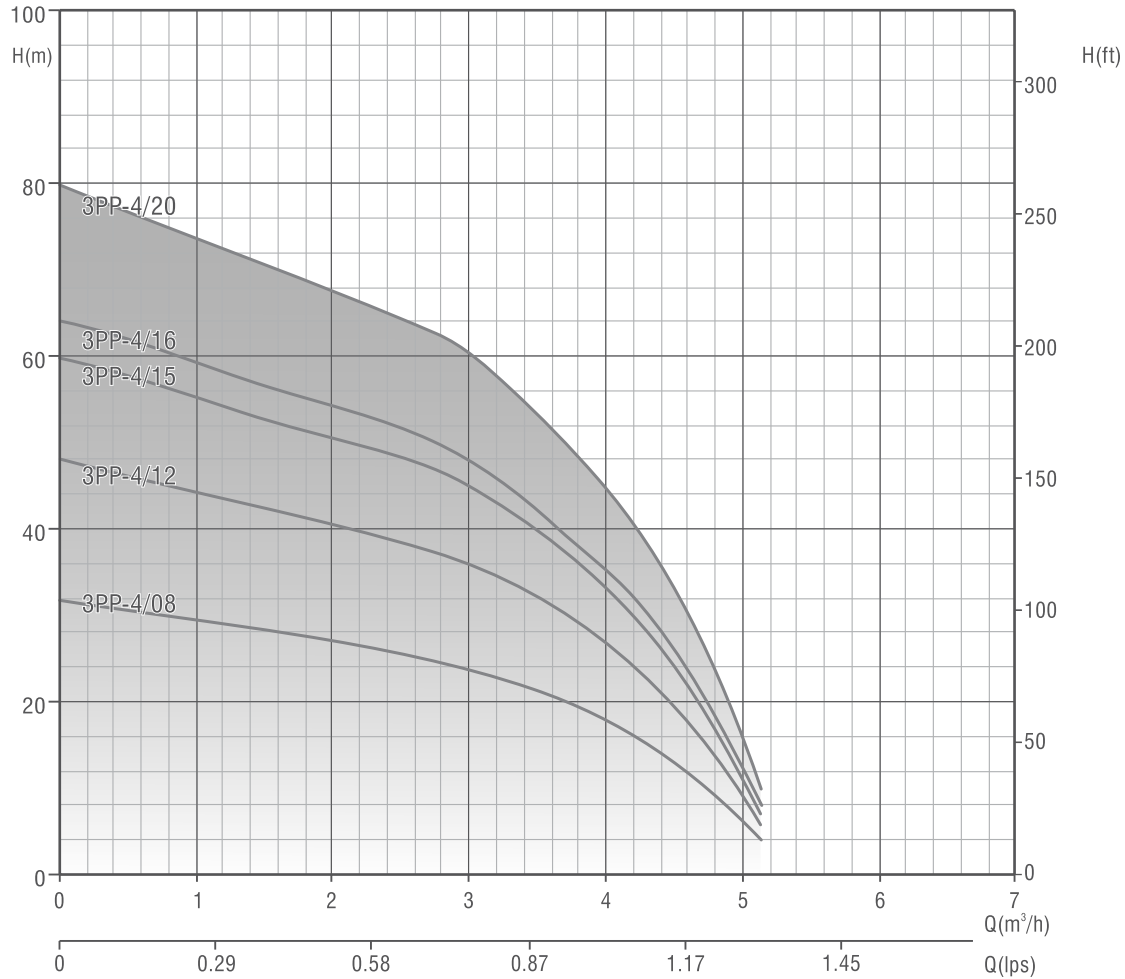
Model	Motor Power		Q(m³/h)	0	1.2	2.1	2.4	2.8	3.3	3.8	4.2
	kW	HP	Q(lps)	0	0.33	0.58	0.67	0.77	0.92	1.07	1.17
3PP-3/10	0.37	0.5	Head(m)	41	38	32	30	26	20	13	7
3PP-3/12	0.55	0.75		49	45	38	36	31	23	15	8
3PP-3/15	0.55	0.75		62	56	48	44	39	29	19	11
3PP-3/20	0.75	1		82	75	64	59	52	39	25	14
3PP-3/25	0.93	1.25		103	94	80	74	65	49	31	18

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

# 3PP-4

Nominal Flow: 4 m<sup>3</sup>/h  
Performance Curve

Outlet Size: 1 1/4"  
2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h)	0	2.7	3.2	3.9	4.2	4.5	4.8	5.1
	kW	HP	Q(lps)	0	0.75	0.9	1.08	1.17	1.25	1.33	1.42
3PP-4/08	0.37	0.5	Head(m)	32	25	23	18	16	13	9	4
3PP-4/12	0.55	0.75		48	38	34	28	24	19	13	6
3PP-4/15	0.75	1		60	47	43	35	30	24	17	7
3PP-4/16	0.75	1		64	50	45	37	32	26	18	8
3PP-4/20	0.93	1.25		80	63	57	46	40	32	22	10

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

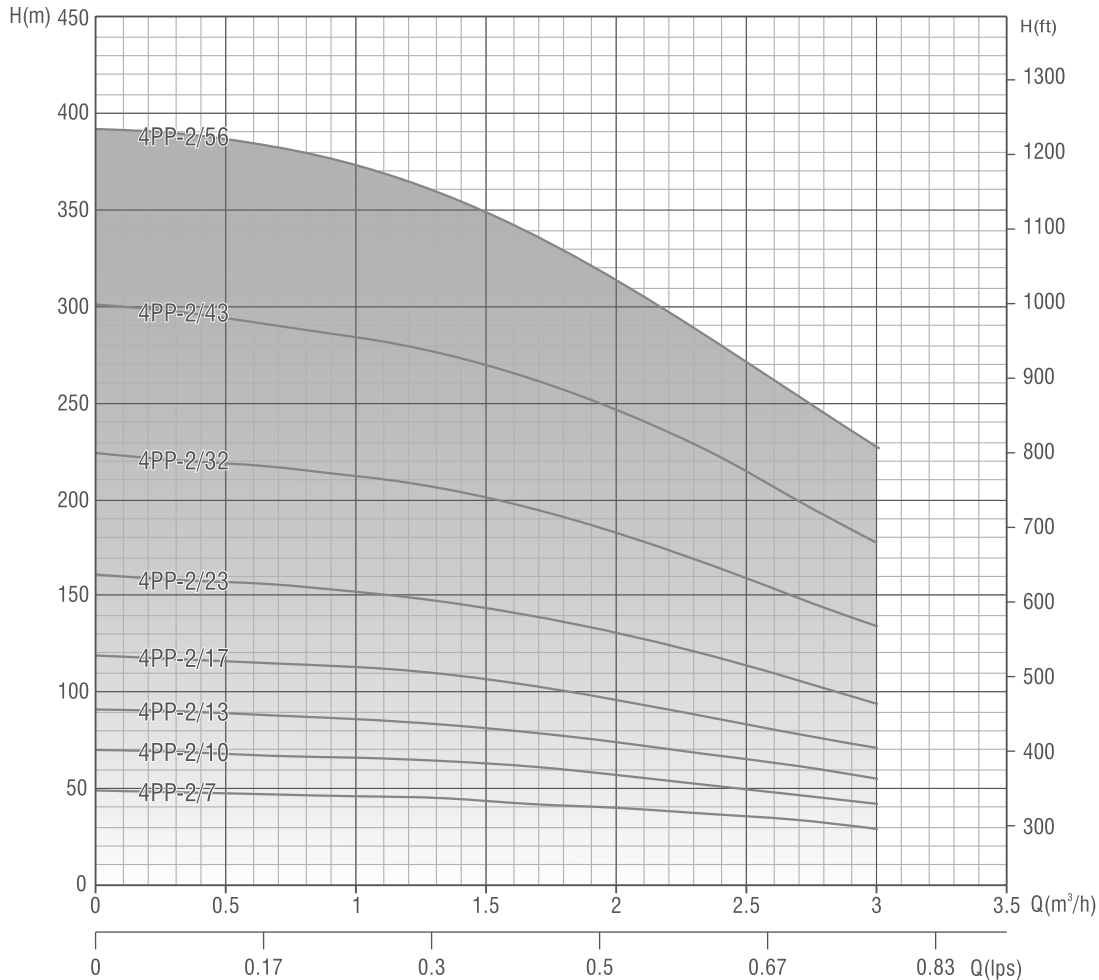
## 4PP-2

Nominal Flow: 2 m<sup>3</sup>/h

Outlet Size: 1¼"

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3
	kW	HP		0	0.08	0.17	0.25	0.33	0.42	0.50	0.58	0.67	0.75	0.83
4PP-2/7	0.37	0.5	Head(m)	49	48	47	46	45	42	40	37	32	29	25
4PP-2/10	0.55	0.75		70	69	67	66	65	60	57	52	46	42	36
4PP-2/13	0.75	1		91	90	88	86	84	78	74	68	60	55	46
4PP-2/17	1.1	1.5		119	117	115	113	110	102	97	89	79	71	60
4PP-2/23	1.5	2		161	158	156	152	149	138	131	120	107	97	82
4PP-2/32	2.2	3		224	220	217	212	207	192	182	168	149	134	114
4PP-2/43	3	4		301	296	292	284	278	258	245	226	200	180	153
4PP-2/56	4	5.5		392	385	380	371	362	336	319	294	260	235	200

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

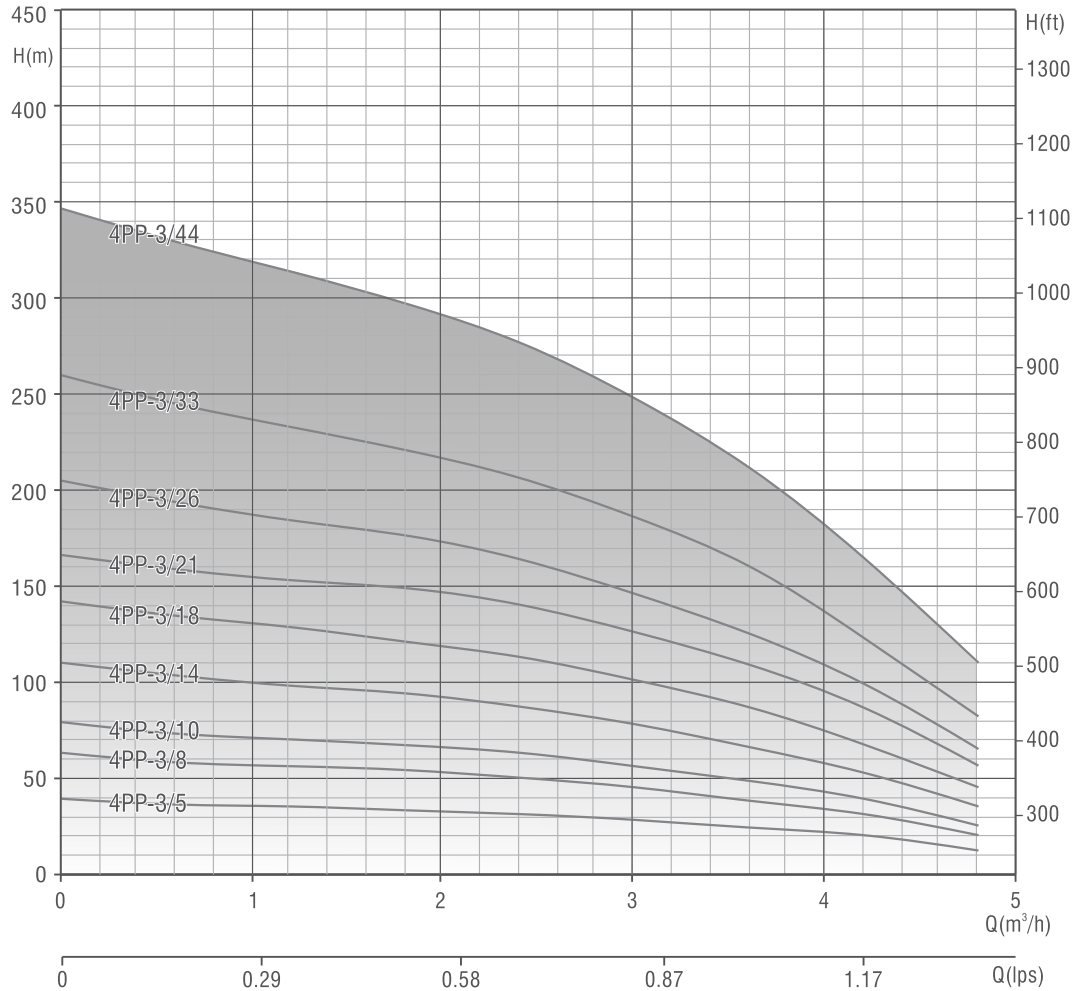
## 4PP-3

Nominal Flow: 3 m<sup>3</sup>/h

Outlet Size: 1¼"

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h)	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8
	kW	HP	Q(lps)	0	0.167	0.33	0.5	0.67	0.83	1	1.17	1.33
4PP-3/5	0.37	0.5	Head(m)	39	36	35	33	31	28	24	20	12
4PP-3/8	0.55	0.75		63	58	56	54	50	45	38	31	20
4PP-3/10	0.75	1		79	73	70	67	63	56	47	39	25
4PP-3/14	1.1	1.5		110	102	98	94	88	79	66	55	35
4PP-3/18	1.5	2		142	131	126	121	113	101	85	70	45
4PP-3/21	1.5	2		166	153	147	141	132	118	99	82	53
4PP-3/26	2.2	3		205	189	182	174	164	146	122	102	65
4PP-3/33	3	4		260	240	231	221	208	186	155	129	82
4PP-3/44	4	5.5		347	320	308	295	277	248	207	172	110

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

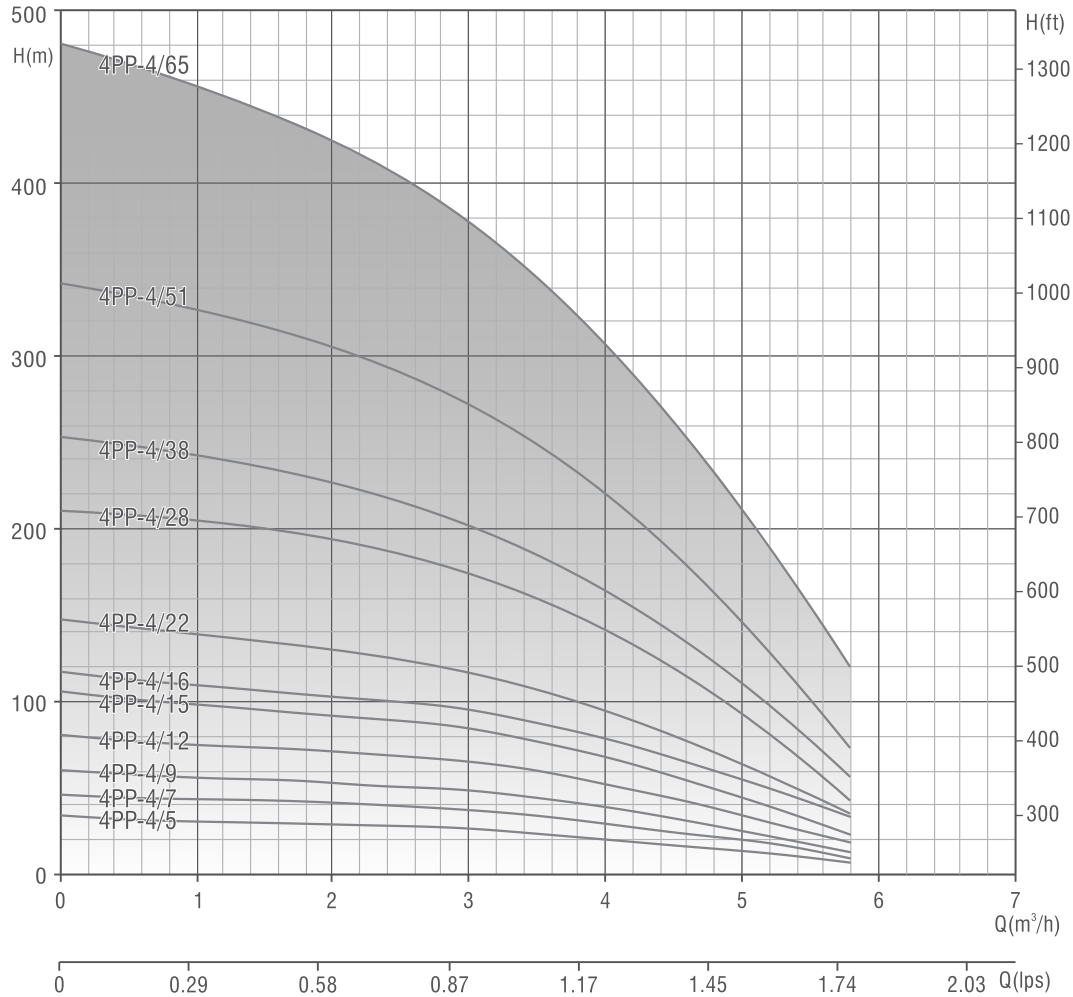
## 4PP-4

Nominal Flow: 4 m<sup>3</sup>/h

Outlet Size: 1 1/4"

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
	kW	HP		0	0.17	0.33	0.5	0.67	0.83	1	1.17	1.33	1.5	1.67
4PP-4/5	0.37	0.5	Head(m)	37	35	34	33	32	30	27	23	19	14	9
4PP-4/7	0.55	0.75		52	49	48	46	45	42	38	33	27	20	12
4PP-4/9	0.75	1		67	63	62	60	57	54	49	43	34	25	16
4PP-4/12	1.1	1.5		89	85	82	80	76	72	66	57	46	34	21
4PP-4/15	1.5	2		111	106	103	99	95	90	82	71	57	42	26
4PP-4/16	1.5	2		118	113	110	106	101	96	87	76	61	45	28
4PP-4/22	2.2	3		163	155	151	146	140	132	120	104	84	62	38
4PP-4/28	3	4		207	197	192	186	178	168	153	133	107	79	49
4PP-4/38	3	4		281	268	261	252	241	228	207	180	145	107	66
4PP-4/51	4	5.5		378	359	350	338	323	306	278	241	195	144	88
4PP-4/65	5.5	7.5		481	458	446	431	412	390	355	308	248	183	112

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

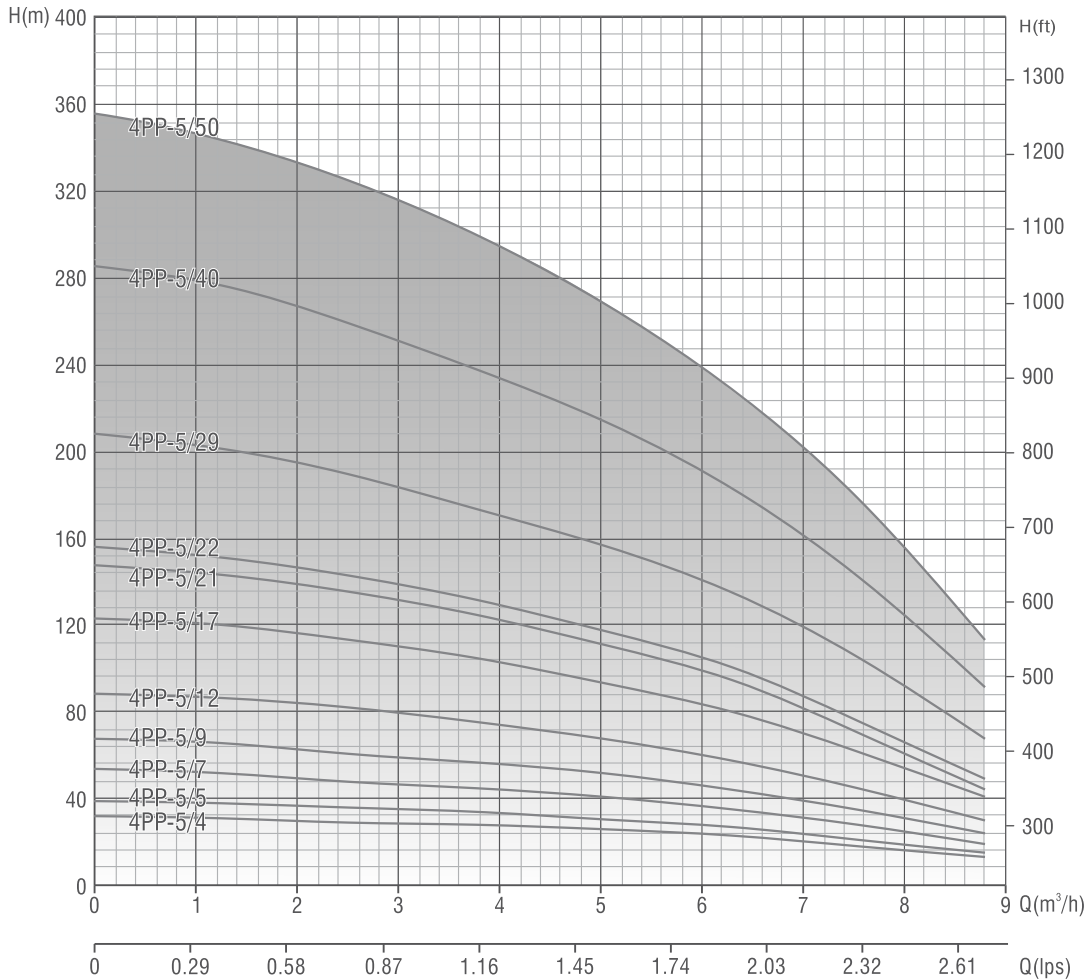
## 4PP-5

Nominal Flow: 5 m<sup>3</sup>/h

Outlet Size: 1½"

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	1.2	2.4	3.6	4.8	6	7.2	8.4
	kW	HP		0	0.33	0.67	1	1.33	1.67	2	2.33
4PP-5/4	0.37	0.5	Head(m)	28	27	25	24	21	19	14	9
4PP-5/5	0.55	0.75		35	34	32	29	26	23	17	11
4PP-5/7	0.75	1		50	48	44	41	37	33	24	15
4PP-5/9	1.1	1.5		64	62	57	53	48	42	31	20
4PP-5/12	1.5	2		85	83	75	71	64	56	41	26
4PP-5/17	2.2	3		120	117	107	100	90	80	58	37
4PP-5/21	3	4		148	145	132	124	111	99	72	46
4PP-5/22	3	4		156	151	138	130	117	103	75	48
4PP-5/29	4	5.5		206	199	183	171	154	136	98	64
4PP-5/40	5.5	7.5		284	275	252	236	212	188	136	88
4PP-5/50	7.5	10		355	344	315	295	265	235	170	110

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

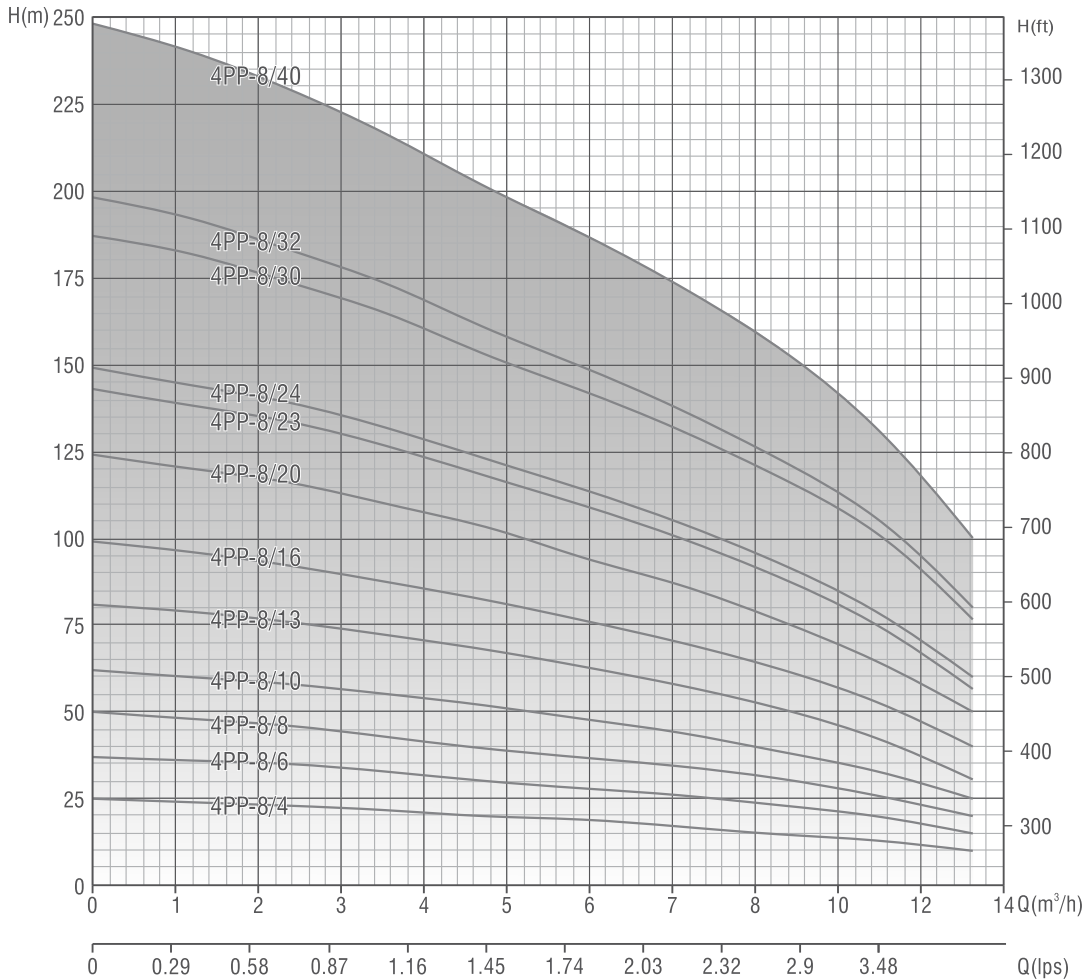
## 4PP-8

Nominal Flow: 8 m<sup>3</sup>/h

Outlet Size: 2"

Performance Curve

2900 rpm



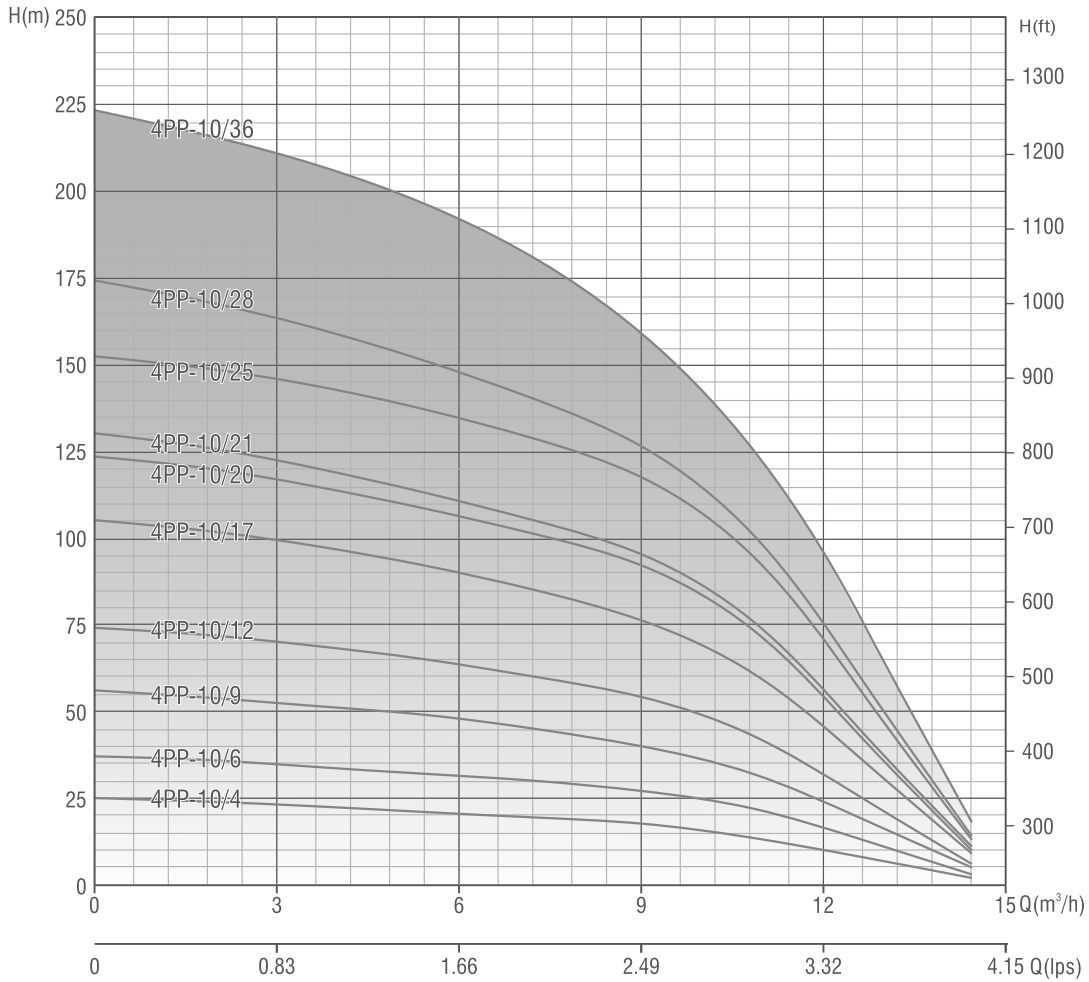
Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	10.8
	kW	HP		0	0.33	0.67	1.00	1.33	1.67	2.00	2.33	2.67	3.00
4PP-8/4	0.55	0.75	Head(m)	25	24	23	21	20	19	17	16	13	10
4PP-8/6	0.75	1		37	36	35	32	29	28	26	25	20	15
4PP-8/8	1.1	1.5		50	48	46	42	39	38	35	33	26	20
4PP-8/10	1.5	2		62	60	58	53	49	48	44	41	33	25
4PP-8/13	2.2	3		81	78	75	69	64	62	57	53	43	33
4PP-8/16	2.2	3		99	96	93	85	78	74	70	66	53	40
4PP-8/20	3	4		124	120	116	106	98	92	88	82	66	50
4PP-8/23	4	5.5		143	138	133	122	113	106	101	94	76	58
4PP-8/24	4	5.5		149	144	139	127	118	110	105	98	79	60
4PP-8/30	5.5	7.5		186	180	174	159	147	138	132	122	99	75
4PP-8/32	5.5	7.5		198	192	186	170	157	147	141	131	106	80
4PP-8/40	7.5	10		248	240	232	212	196	184	176	164	132	100

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

## 4PP-10

Nominal Flow: 10 m<sup>3</sup>/h  
Performance Curve

Outlet Size: 2"  
2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h)	0	1.8	3.6	5.4	7.2	9	10.8	12.6	14.4
	kW	HP	Q(lps)	0	30	60	90	120	150	180	210	240
4PP-10/4	0.75	1	Head(m)	25	24	22	21	20	18	14	8	2
4PP-10/6	1.1	1.5		37	36	34	32	30	27	22	13	3
4PP-10/9	1.5	2		56	54	50	49	45	41	32	19	5
4PP-10/12	2.2	3		74	72	67	65	60	54	43	25	6
4PP-10/17	3	4		105	102	95	92	85	76	61	36	9
4PP-10/20	4	5.5		124	120	111	108	100	90	72	42	10
4PP-10/21	4	5.5		130	126	117	113	105	95	76	44	11
4PP-10/25	5.5	7.5		155	150	140	135	125	113	90	53	13
4PP-10/28	5.5	7.5		174	168	157	151	140	126	101	59	14
4PP-10/36	7.5	10	223	216	202	194	180	162	130	76	18	

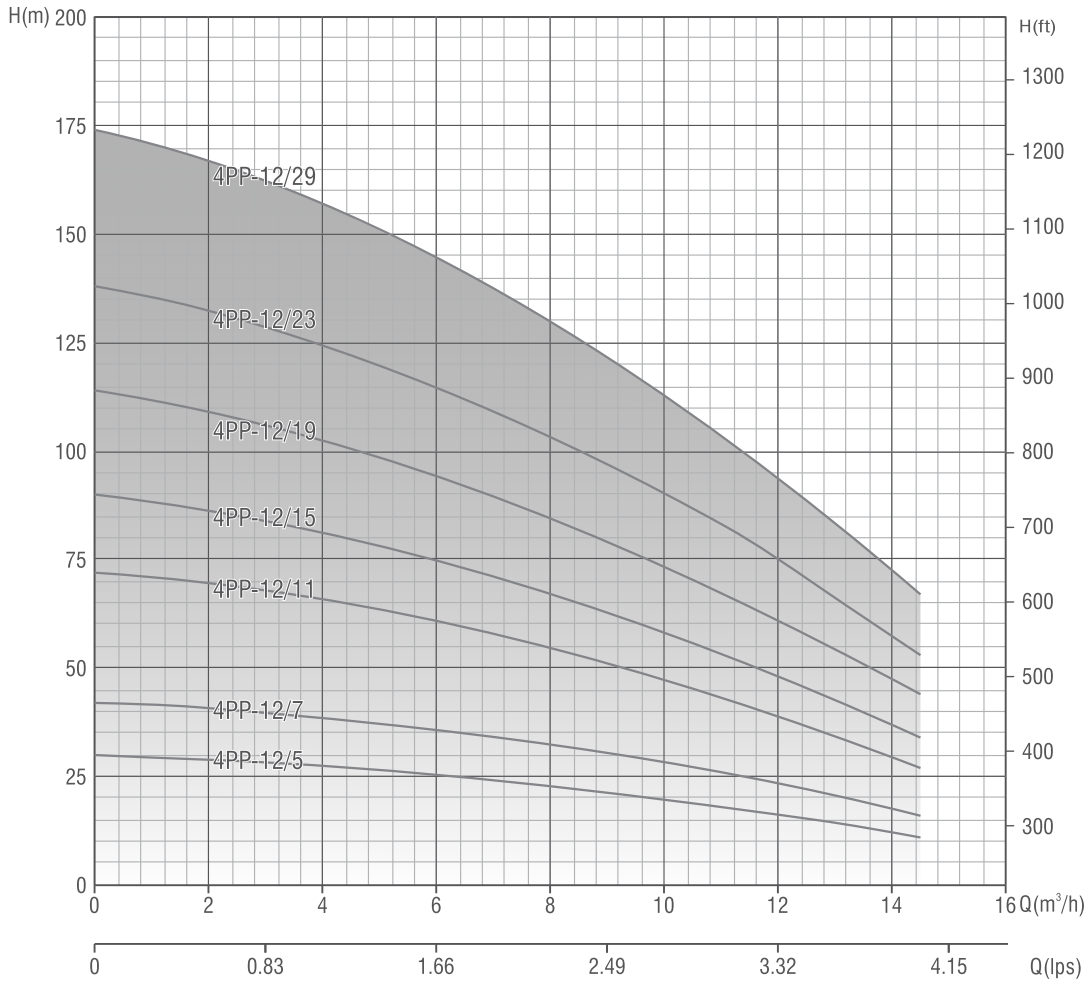
## 4PP-12

Nominal Flow: 12 m<sup>3</sup>/h

Outlet Size: 2"

Performance Curve

2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	1.8	3.6	5.4	7.2	9	10.8	12.6	14.4
	kW	HP		0	0.5	1	1.5	2	2.5	3	3.5	4
4PP-12/5	1.1	1.5	Head(m)	30	29	27	26	23	20	19	15	11
4PP-12/7	1.5	2		42	41	39	36	32	29	27	21	16
4PP-12/12	2.2	3		72	70	65	62	55	49	46	36	27
4PP-12/15	3	4		90	87	81	78	69	61	58	45	34
4PP-12/19	4	5.5		114	110	103	99	87	78	73	57	44
4PP-12/23	5.5	7.5		138	133	124	119	106	94	88	69	53
4PP-12/29	7.5	10		174	168	157	151	133	119	111	87	67

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

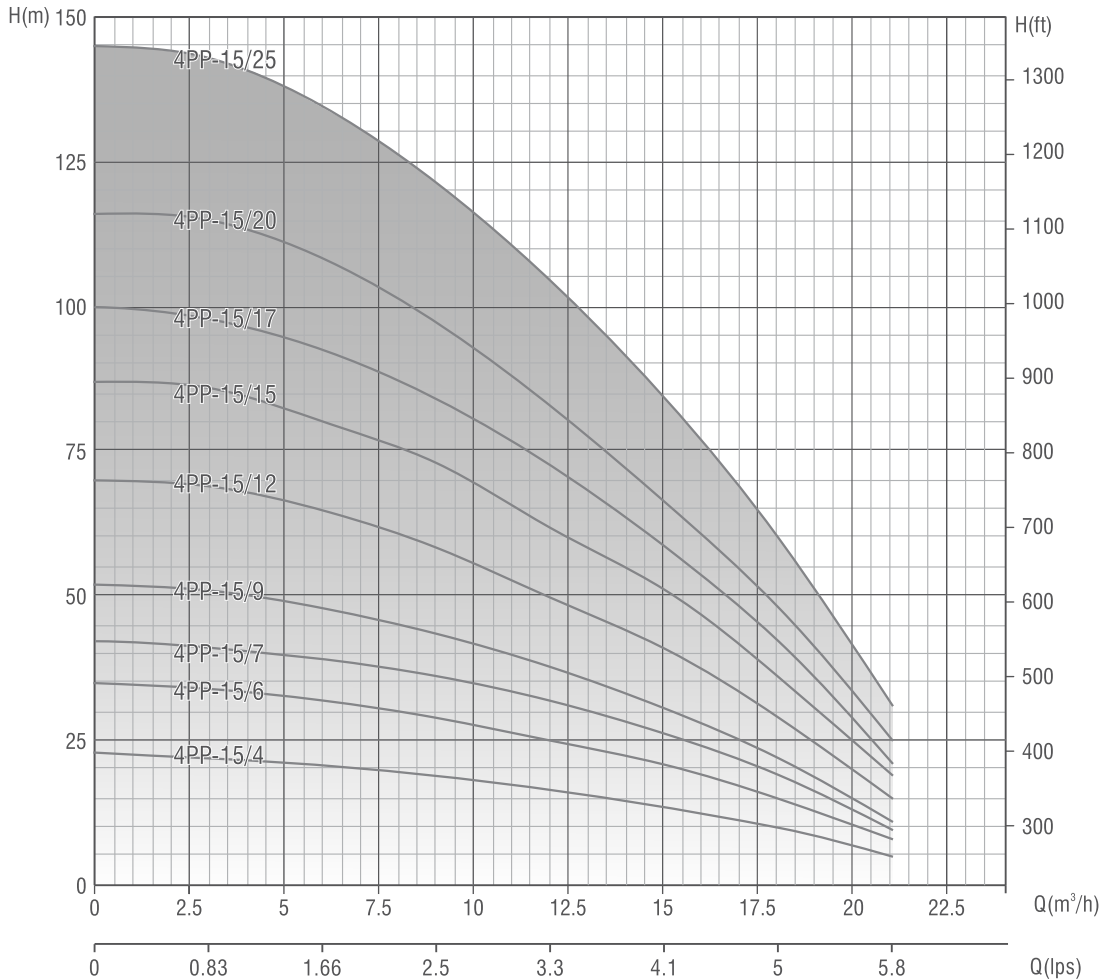
## 4PP-15

Nominal Flow: 15 m<sup>3</sup>/h

Outlet Size: 2"

Performance Curve

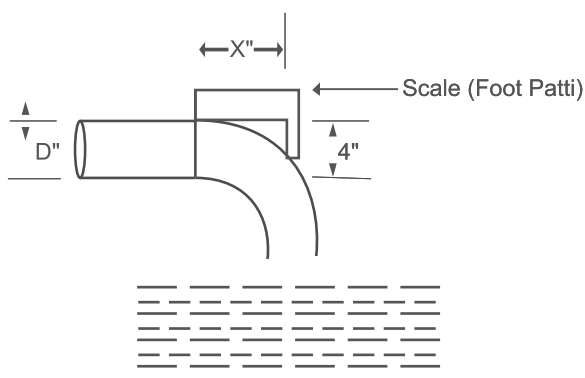
2900 rpm



Model	Motor Power		Q(m <sup>3</sup> /h) Q(lps)	0	3	6	9	12	15	18.0	21.0
	kW	HP		0	0.83	1.67	2.5	3.33	4.17	5	5.83
4PP-15/4	1.1	1.5	Head(m)	23	22	21	19	16	15	10	5
4PP-15/6	1.5	2		35	34	32	29	24	22	15	8
4PP-15/7	1.5	2		40	40	37	33	28	26	17	9
4PP-15/9	2.2	3		52	51	47	43	36	33	22	11
4PP-15/12	3	4		70	69	63	57	48	44	29	15
4PP-15/15	4	5.5		87	86	78	71	60	55	36	19
4PP-15/17	4	5.5		99	98	89	81	68	63	41	21
4PP-15/20	5.5	7.5		116	115	105	95	80	74	48	25
4PP-15/25	7.5	10		145	143	131	119	100	93	60	31

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

HORIZONTAL DISTANCE (X) IN INCHES	NOMINAL PIPE DIAMETER (D)									
	1"	1¼"	1½"	2"	2½"	3"	4"	5"	6"	
4	2	3	4	6	8	13	23	35	52	
5	2	3	5	8	11	17	28	45	65	
6	2	4	5	9	13	20	34	53	78	
7	3	5	6	11	15	23	40	63	91	
8	3	5	7	12	17	27	45	71	104	
9	3	6	8	14	19	30	51	80	117	
10	4	7	9	15	21	33	57	89	129	
11	4	7	10	17	23	37	62	98	143	
12	5	8	11	18	26	40	68	106	155	
13	5	9	12	20	28	43	74	116	169	
14	5	9	13	21	30	47	79	123	181	
15	6	10	14	23	32	50	85	133	193	
16	6	11	14	24	34	53	91	142	207	
17	7	11	15	26	36	57	96	151	221	
18	7	12	16	27	38	60	102	161	233	
19	7	13	17	29	40	63	108	169	247	
20	8	13	18	30	42	66	113	177	259	
21	8	14	19	32	45	70	119	187	272	
22	8	15	20	33	47	73	124	196	286	
23	9	15	21	35	49	77	130	204	298	
24	9	16	22	36	51	80	136	212	311	
25	10	17	23	38	53	83	142	222	324	
26	10	17	23	39	55	87	147	230	336	
27	10	18	24	41	57	90	153	240	350	
28	11	19	25	42	59	93	159	0	0	
29	11	19	26	44	62	96	164	0	0	
30	12	20	27	45	64	100	170	0	0	
31	0	0	28	47	66	103	0	0	0	
32	0	0	29	48	68	107	0	0	0	
33	0	0	30	50	70	110	0	0	0	
34	0	0	31	51	72	113	0	0	0	
35	0	0	32	53	74	117	0	0	0	



Example :  
 Horizontal Distance  $X'' = 20''$   
 Nominal Pipe Diameter  $D'' = 2''$   
 Discharge = 504

Technical Specifications		50 Hz
Nominal Dia		4" Motor (100mm)
Max. Outer Dia		95mm
Power Range	1Ph	0.37 to 2.2 kW
	3Ph	0.37 to 7.5 kW
Version	1Ph	220 / 230 V - 50Hz
	3Ph	380 - 415 V - 50Hz
Nominal Speed		2850 rpm
Direction of rotation		Counter Clockwise
Protection		IP 68
Insulation		Class F
Duty		S1 continuous
Max. Submergence Depth		150m
Max. Liquid Temp.		33°C
Min. cooling flow		0.15 m/s
Max. Starts per hour		20 times
Starting method	1Ph	CSR
	3Ph	DOL
Shaft & Mounting		NEMA Standard
Cable leadout		Permanently Connected 3 & 4 Core flat cable

## Features

- SS304 Motor body to prevent corrosion
- Low power consumption and high operating efficiency
- Pre-filled with food grade oil
- Easy to dismantle and service
- Mounting dimensions as per NEMA standard
- Carbon ceramic Mechanical seal
- Angular contact type lower bearings

## Applications

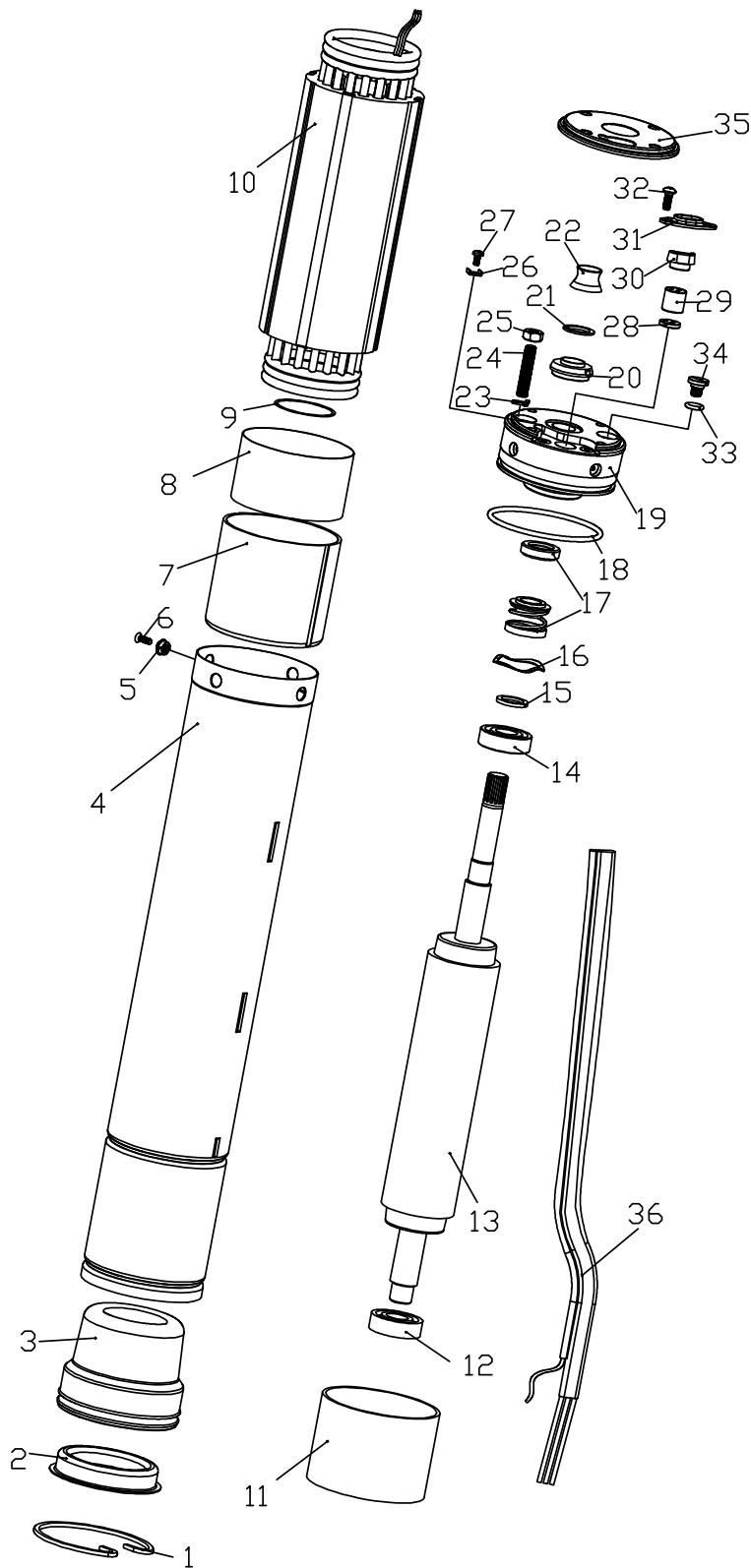
- Domestic, Irrigation, Industries, Sprinkler, Mining, Booster systems, Gardens, Fountains, etc...

## Materials of Construction

Part	Material
Motor Shell	SS 304
Motor Shaft	SS 410
Upper Bearing	Ball Bearing
Lower Bearings	Angular Contact Bearing
Lead Cable	PVC / EPDM Rubber Cable
Oil Seal	NBR
Diaphragm	NBR
Mechanical Seal	Carbon / Ceramic



Exploded View



Part No.	Part Name
1	Snap Ring
2	Bottom Cover
3	Diaphragm
4	Motor Shell
5	Washer
6	Screw
7	Lower Bracket
8	Insulating Paper
9	O ring
10	Stator
11	Insulating Paper
12	Lower Bearing
13	Rotor
14	Upper bearing
15	Washer
16	Spring Washer
17	Mechanical Seal
18	O ring
19	Upper Housing
20	Sand Guard
21	Washer
22	Sand Slinger
23	Spring Washer
24	Stud
25	Nut
26	Washer
27	Earth Screw
28	O ring
29	Cable Grommet
30	Cable Grommet Nut
31	Cable Clamp
32	Screw
33	O ring
34	Drain Plug
35	Upper Shell
36	Cable

## Technical Details

### 50Hz, Single Phase 230V, 3 Wire Motor (CSR)

Model	kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cos $\phi$	Capacitor (MFD)	Torque (Nm)	Thrust Load (N)	Height (mm)	Weight (kg)	Cable Size (Sq mm)	Cable Length (m)
V4K-03M	0.37	0.5	3.6	10.4	53	0.88	15	1.24	1500	357	8	1.5	1.5
V4K-05M	0.55	0.75	4.8	13.6	58	0.89	20	1.84	1500	377	8	1.5	1.5
V4K-07M	0.75	1	6.3	17.6	60	0.9	30	2.5	1500	402	10	1.5	1.5
V4K-11M	1.1	1.5	8.6	21.1	64	0.9	40	3.6	2500	432	11	1.5	1.5
V4K-15M	1.5	2	10	26.4	70	0.94	50	5	2500	475	11	2	1.5
V4K-22M	2.2	3	14	39.9	74	0.96	60	7.35	2500	520	14	2.3	2

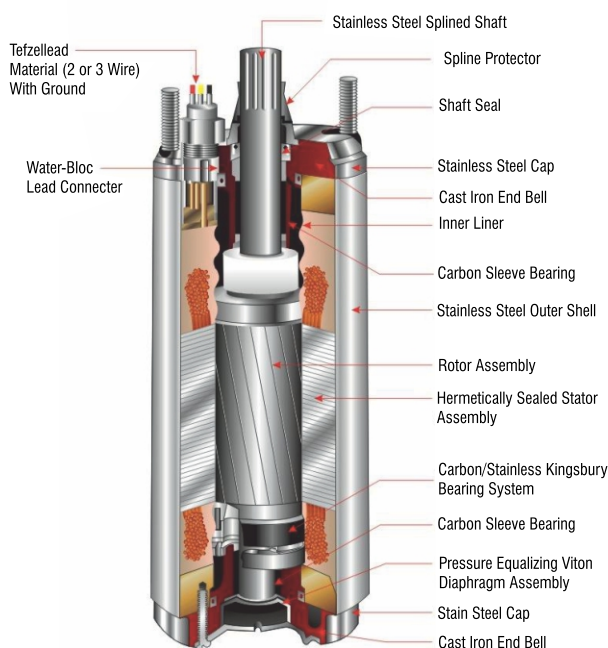
### 50Hz, Three Phase 380V Motor (D.O.L.)

Model	kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cos $\phi$	Torque (Nm)	Thrust Load (N)	Height (mm)	Weight (kg)	Cable Size (Sq mm)	Cable Length (m)
V4K-03T	0.37	0.5	1.07	5.2	63	0.8	1.24	1500	392	8	1.5	1.5
V4K-05T	0.5	0.75	1.9	9.3	63	0.8	1.84	1500	407	8	1.5	1.5
V4K-07T	0.75	1	2.4	11.1	64	0.81	2.5	1500	427	10	1.5	1.5
V4K-11T	1.1	1.5	3.15	13	88	0.82	3.6	2500	447	11	1.5	1.5
V4K-15T	1.5	2	4.2	19.5	72	0.82	5	2500	482	11	1.5	1.5
V4K-22T	2.2	3	6	28	72	0.83	7.35	2500	542	14	1.5	2
V4K-30T	3	4	7.8	40.2	75	0.83	10	2500	602	19	2	2
V4K-37T	3.7	5	9.6	48	75	0.83	13.4	2500	602	19	2	2
V4K-40T	4	5.5	10	51	77	0.83	13.4	2500	642	21	2	2
V4K-55T	5.5	7.5	13.6	71.1	78	0.85	18.4	4500	762	25	2.3	3
V4K-75T	7.5	10	17.6	87.8	79	0.85	25	4500	882	31	2.3	3

Technical Specifications		50 Hz
Nominal Dia		4" Motor (100mm)
Max. Outer Dia		96mm
Power Range	1Ph	0.37 to 2.2 kW
	3Ph	0.37 to 7.5 kW
Version	1Ph	220 / 230 V - 50Hz
	3Ph	380 - 415 V - 50Hz
Nominal Speed		2850 rpm
Direction of rotation		Counter Clockwise
Protection		IP 68
Insulation		Class B
Duty		S1 continuous
Max. Submergence Depth		300m
Max. Liquid Temp.		33°C
Min. cooling flow		0.15 m/s
Starting method	1Ph	CSCR
	3Ph	DOL
Shaft & Mounting		NEMA Standard
Cable leadout		3 & 4 Core TPI flat cable

Materials of Construction	
Part	Material
Motor Shell	SS 304
Motor Base	SS 304
Motor Shaft	SS 410
Radial Bearings	Carbon Sleeve
Thrust Bearing	Carbon SS Kingsbury Type
Cable Leadout	XPLE / PVC Cable
Cable Sealing	Epoxy
Sand Slinger	NBR
Diaphragm	NBR
Seal	NBR

## Cross Sectional View



## Technical Details

### 50Hz, Single Phase 230V, 2 Wire Motor (PSC)

Model	kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cosØ	Capacitor (MFD)	Torque (Nm)	Thrust Load (N)	Height (mm)	Weight (kg)	Cable Size (Sq mm)	Cable Length (m)
E4K-03W	0.37	0.5	3.5	11	52	0.92	25	1.23	1500	291	9	1.5	1.5
E4K-05W	0.55	0.75	4.7	16	58	0.92	30	1.86	1500	319	10.3	1.5	1.5
E4K-07W	0.75	1	6	18.5	61	0.93	35	2.65	3000	348	11.3	1.5	1.5
E4K-11W	1.1	1.5	8	23	68	0.93	45	3.8	3000	396	14	1.5	1.5

### 50Hz, Single Phase 230V, 3 Wire Motor (CSCR)

Model	kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cosØ	Starting Capacitor (MFD)	Running Capacitor (MFD)	Torque (Nm)	Thrust Load (N)	Height (mm)	Weight (kg)	Cable Size (Sq mm)	Cable Length (m)
E4K-03S	0.37	0.5	4.3	15	55	0.72	60/250V	10	1.24	1500	241	8.1	1.5	1.5
E4K-05S	0.55	0.75	6.5	23	58	0.69	80/250V	10	1.86	1500	269	9.5	1.5	1.5
E4K-07S	0.75	1	7.6	29	62	0.73	80/250V	15	2.47	3000	298	10.4	1.5	1.5
E4K-11S	1.1	1.5	9.4	46	65	0.87	100/250V	20	3.75	3000	345	13.2	1.5	1.5
E4K-15S	1.5	2	11	53	68	0.88	125/250V	30	4.98	3000	384	14.6	1.5	1.5
E4K-22S	2.2	3	16	68	66	0.96	200/250V	45	10.6	6500	531	23	1.5	2

### 50Hz, Three Phase 380V Motor (D.O.L.)

Model	kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cosØ	Torque (Nm)	Thrust Load (N)	Height (mm)	Weight (kg)	Cable Size (Sq mm)	Cable Length (m)
E4K-03T	0.37	0.5	1.2	4.9	66	0.78	1.24	1500	224	7.2	1.5	1.5
E4K-05T	0.5	0.75	1.7	7.8	66	0.8	1.84	1500	241	8.1	1.5	1.5
E4K-07T	0.75	1	2.1	10.6	67	0.81	2.5	3000	269	9	1.5	1.5
E4K-11T	1.1	1.5	3.2	14	70	0.79	3.6	3000	298	10.4	1.5	1.5
E4K-15T	1.5	2	4	21	75	0.83	5	3000	345	13.2	1.5	1.5
E4K-22T	2.2	3	6	28	76	0.83	7.35	6500	454	18.2	2	2
E4K-30T	3	4	7.6	42	76	0.85	10	6500	496	20	2	2
E4K-37T	3.7	5	9.5	46	75	0.84	13.4	6500	531	23	2	2
E4K-40T	4	5.5	10.5	55	76	0.84	13.4	6500	556	24	2	2
E4K-55T	5.5	7.5	13	70	75	0.86	18.4	6500	686	30	2	3
E4K-75T	7.5	10	18.7	100	76	0.82	25	6500	756	34	2	3

Technical Specifications		50 Hz
Nominal Dia		4" Motor (100mm)
Max. Outer Dia		95mm
Power Range	1Ph	0.37 to 2.2 kW
	3Ph	0.37 to 7.5 kW
Version	1Ph	220 / 230 V - 50Hz
	3Ph	380 - 415 V - 50Hz
Nominal Speed		2900 rpm
Class of Insulation		Y
Degree of protection		IP 58
Direction of rotation		Counter-clock wise
Type of duty		S1 (Continues)
Minimum cooling flow		0.15 m/sec
Max. Liquid temp.		33° C
starts per hour		20 Times
Method of starting	1Ph	Capacitor Start Capacitor Run (CSCR)
	3Ph	Direct On Line (DOL)
Cable lead-out		Permanently Connected 3 & 4 Core PVC Flat Cable

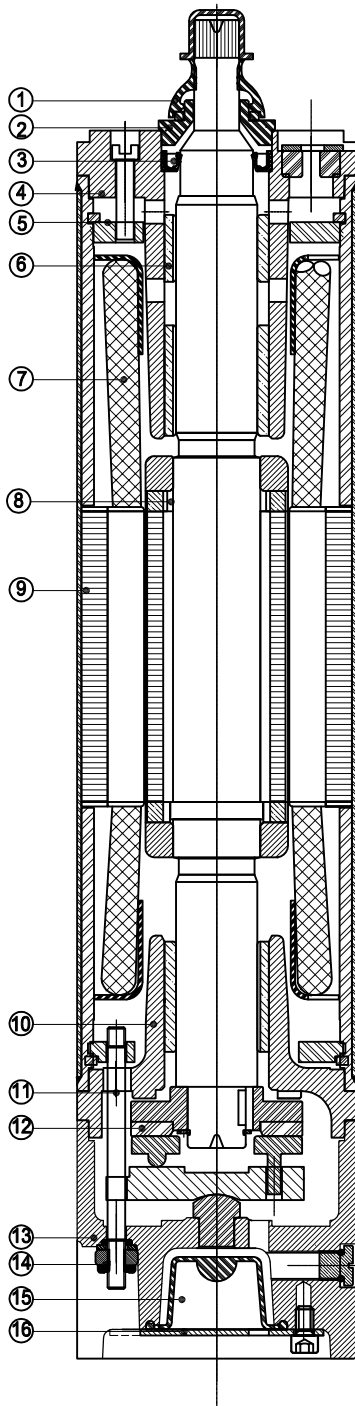
Materials of Construction	A4C	A4S
Upper & Lower Housing	CI, FG 200	Casted SS 304
Stator Shell	SS 202	SS 304
Thrust Pad	CARBON / TEFLON	CARBON / TEFLON
Thrust Bearing	CI, FG 200/ SS 420	SS 304 / SS 420
Diaphragm	NITRILE RUBBER	NITRILE RUBBER
Motor Base	CI, FG 200	SS 304
Upper housing shell	CI, FG 200	SS 304
Shaft	SS 420 / 431	SS 420 / 431
Sleeve	SS 410	SS 410

## Features

- Easy to dismantle & repair
- High Operating Efficiency
- Specially designed 3 layered Insulation (Polyster+2BOPP) winding wire for better thermal protection
- Spl. Magnet provision at motor base to prevent from free metal particles
- Mounting dimensions as per NEMA standard
- Kingsburry type Thrust bearing to withstand high axial loads
- Spring action pressure compensating Diaphragm
- Specially designed forged MS stator end rings
- Low Voltage motors can be supplied, on request



## Cross Sectional View



NO.	PART NAME	MATERIAL
1	SAND SLINGER	NITRILE RUBBER
2	SAND COVER	SS 304
3	OIL SEAL	NITRILE RUBBER
4	ADAPTOR	SS 304
5	FLANGE	MILD STEEL
6	BEARING BUSH	BRONZE LTB-4
7	WINDING WIRE	PVC+BOPP+COPPER
8	ROTOR	STAMPING-CRNO M47 SHAFT- SS
9	STATOR	STAMPING-CRNO M47 PIPE- SS 304
10	LOWER HOUSING	SS 304
11	STUD	SS 304
12	THRUST BEARING WITH LOOSE SEGMENT	CARBON + SS
13	MOTOR BASE	SS 304
14	FASTENERS	SS 304
15	DIAPHRAGM	NITRILE RUBBER
16	MOTOR BASE PLATE	SS 410

## Technical Details

### 50Hz, Single Phase, 230V Water Filled Motor (CSCR)

Model	kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cosØ	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)
A4S-03S	0.37	0.5	5.3	10.4	42	0.80	3000	2	1.2
A4S-05S	0.55	0.75	6.2	13.6	45	0.80	3000	2.9	1.8
A4S-07S	0.75	1	7.5	17.6	50	0.90	3000	4.1	2.5
A4S-11S	1.1	1.5	10.5	21.1	53	0.90	3000	6.1	3.7
A4S-15S	1.5	2	13.8	26.4	55	0.90	3000	8.3	4.9
A4S-22S	2.2	3	19.8	39.9	60	0.90	6500	13.3	7.4

### 50Hz, Three Phase, 380 - 415V Water Filled Motor (D.O.L.)

Model	kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cosØ	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)
A4S-03T	0.37	0.5	3.25	5.2	60	0.75	3000	2.2	1.2
A4S-05T	0.55	0.75	3.5	9.3	60	0.75	3000	3.4	1.9
A4S-07T	0.75	1	3.75	11.1	61	0.75	3000	4.5	2.5
A4S-11T	1.1	1.5	4	13	63	0.75	3000	6.7	3.7
A4S-15T	1.5	2	4.8	19.5	67	0.80	3000	9	5
A4S-22T	2.2	3	6.9	28	69	0.80	6500	14.1	7.5
A4S-30T	3	4	9	40.2	70	0.80	6500	19	10
A4S-37T	3.7	5	10.6	48	70	0.82	6500	22	12.4
A4S-40T	4	5.5	11	51	71	0.82	6500	23	13.1
A4S-55T	5.5	7.5	15.5	87.8	72	0.82	6500	33.7	18.7
A4S-75T	7.5	10	19.8	119	72	0.82	6500	45.5	25

## Dimensional Details

Model	kW	HP	Cable Size (mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
A4S-03S	0.37	0.5	1.0	2.75	472.5	16.6
A4S-05S	0.55	0.75	1.5	2.75	492.5	17.4
A4S-07S	0.75	1	1.5	2.75	512.5	19
A4S-11S	1.1	1.5	12.5	2.75	547.5	20
A4S-15S	1.5	2	12.5	2.75	639.5	22
A4S-22S	2.2	3	12.5	2.75	662.5	25.4
A4S-03T	0.37	0.5	1.0	2.75	472.5	15.5
A4S-05T	0.55	0.75	1.0	2.75	492.5	18
A4S-07T	0.75	1	1.0	2.75	512.5	19.5
A4S-11T	1.1	1.5	1.0	2.75	547.5	20.5
A4S-15T	1.5	2	1.0	2.75	639.5	22.5
A4S-22T	2.2	3	1.5	2.75	662.5	26
A4S-30T	3	4	1.5	2.75	722.5	28
A4S-37T	3.7	5	12.5	2.75	762.5	31
A4S-40T	4	5.5	2.5	2.75	762.5	31
A4S-55T	5.5	7.5	2.5	3.20	852.5	36
A4S-75T	7.5	10	2.5	3.20	1120.0	43



Replace the 3rd digit in model name with 'C' Cast Iron Construction.

In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

# 6" Water Filled Rewindable Motors

Technical Specifications	50 Hz
Nominal Dia	6" Motor (150mm)
Max. Outer Dia	144mm
Power Range	4 to 45 kW
Version	3Ph380-415V, 50Hz, A.C. Supply
Nominal Speed	2900 rpm
Class of Insulation	Y
Degree of protection	IP58 / IP68
Direction of rotation	Counter-clock Wise
Type of duty	S1 (Continues)
Minimum cooling flow	0.15 m/sec
Max. Liquid temp.	33° C / 70° C (PE2-PA Winding)
starts per hour	20 Times
Method of starting	4.0kW to 45kW Direct On Line (D.O.L.) 5.5kW to 45kW Star Delta (S.D.)
Cable leadout type	Permanently Connected 3 & 4 Core PVC Flat Cable

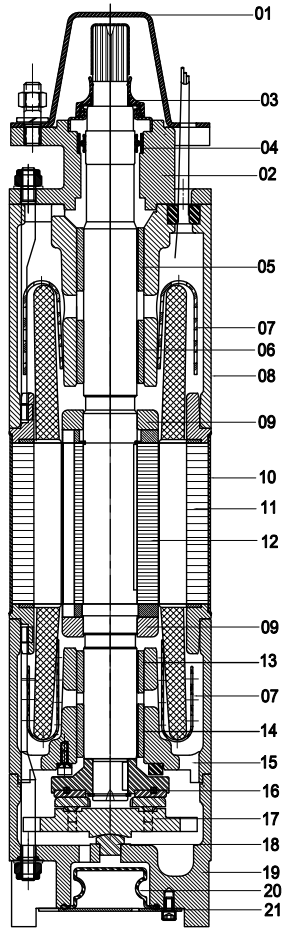
Materials of Construction	A6C / A6CF	A6S / A6SF	A6T
Upper & Lower Housing	CI,FG 200 / 260	Casted SS 304	Casted SS 316
Stator Shell	SS 202	SS 304	SS 316
Thrust Pad	CARBON / TEFLON	CARBON / TEFLON	CARBON / TEFLON
Thrust Bearing	CI, FG 200/ SS 420	SS 304 / SS 420	SS 316 / SS 420
Diaphragm	NITRILE RUBBER	NITRILE RUBBER	NITRILE RUBBER
Motor Base	CI, FG 200/260	SS 304	SS 316
Upper Housing Shell	CI, FG 200/260	CI, FG 200/260	CI, FG 200/260
Shaft	SS 420/431	SS 420/431	SS 420/431
Sleeve	SS 410	SS 410	SS 410

## Features

- Easy to dismantle & repair
- High Operating Efficiency
- Specially designed 3 layered Insulation (Polyster+2BOPP) winding wire for better thermal protection
- Spl. Magnet provision at motor base to prevent from free metal particles
- Mounting dimensions as per NEMA standard
- Kingsburry type Thrust bearing to withstand high axial loads
- Spring action pressure compensating Diaphragm
- Specially designed forged MS stator end rings
- On request, Motors can be supplied with PE2-PA winding wire for high temp. applications.
- Motors with Mechanical Seal & PT sensors available, on request

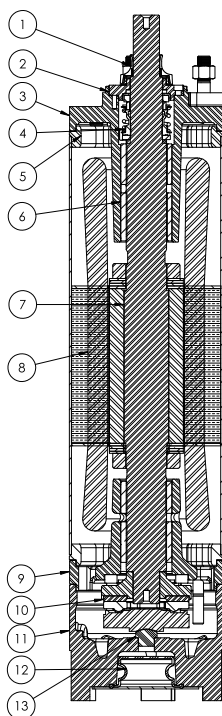


## Cross Sectional Drawing



### A6C / A6S Flange Type Motor

NO.	PART NAME	MATERIAL
1	PROTECTION CLAMP	MS
2	ADAPTOR	CI,FG-260
3	SAND SLINGER	NITRILE RUBBER
4	OIL SEAL	NITRILE RUBBER+SS
5	RUBBER BUSH	NITRILE RUBBER+SS
6	BEARING BUSH	LTB-4
7	WINDING CAP	LDPE
8	UPPER HOUSING	CI,FG-260
9	BALANCE RING	CI,FG-150
10	STATOR TUBE	SS- 202
11	STATOR	STAMPING-CRNO M-47
12	ROTOR	STAMPING-CRNO M-47
13	RUBBER BUSH	NITRILE RUBBER+SS
14	BEARING BUSH	LTB-4
15	LOWER HOUSING	CI,FG-260
16	T.B.PLATE	CI+CARBON
17	THRUST BEARING BASE	SS- 420
18	ROCKER SUPPORT	SS- 410
19	MOTOR BASE	CI,FG-260
20	DAIPHFRAGM	NITRILE RUBBER
21	MOTOR BASE PLATE	SS- 410



### A6CF / A6SF Flange Type Motor

No.	Part Name	Material
1	Sand Guard	NBR
2	Sand Cover	SS 304
3	Upper Housing	CI FG 200/SS304/SS316
4	Mechanical Seal	NBR+SS+Ceramic
5	Stator Flange	SS304
6	Carbon Bush	Carbon
7	Rotor	SS420+CRNO M47
8	Stator	SS J4/304+CRNO M47
9	Lower Housing	CI FG 200/SS304/SS316
10	Thrust Bearing Set	SS+Carbon
11	Motor Base	CI FG 200/SS304/SS316
12	Diaphrgm	NBR
13	Rocker Nut	SS410

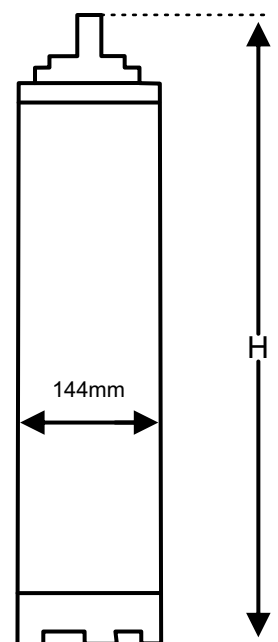
## Technical Details

50Hz, Three Phase 380-415V, Water Filled Motor (D.O.L. & S.D.)

Model	kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cos $\theta$	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)
A6CF-40T	4	5.5	10	43	73	0.75	15500	19	12
A6CF-45T	4.5	6	12	48	75	0.75	15500	20	24
A6CF-55T	5.5	7.5	14.5	52	77	0.75	15500	21	15
A6CF-75T	7.5	10	19.5	70	78	0.78	15500	24	18
A6CF-93T	9.3	12.5	25	84	79	0.78	15500	27	25
A6CF-110T	11	15	29	102	80	0.80	15500	35	31
A6CF-130T	13	17.5	34	118	80.5	0.80	15500	43	37
A6CF-150T	15	20	39	148	81	0.80	15500	51	43
A6CF-185T	18.5	25	45	188	82	0.82	15500	62	49
A6CF-220T	22	30	54	225	82	0.82	15500	98	61
A6CF-260T	26	35	66	270	82	0.83	27500	118	74
A6CF-300T	30	40	72	355	82	0.83	27500	146	84
A6CF-370T	37	50	85	420	82	0.82	27500	196	98
A6CF-450T	45	60	96	464	82	0.82	27500	196	98

## Dimensional Details

Model	kW	HP	Cable Size D.O.L. (sq. mm)	Cable Size S.D. (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
A6CF-40T	4	5.5	4	-	2.75	642	46
A6CF-45T	4.5	6	4	-	2.75	657	47
A6CF-55T	5.5	7.5	4	2.5	2.75	677	50
A6CF-75T	7.5	10	4	2.5	2.75	727	55
A6CF-93T	9.3	12.5	6	2.5	2.75	762	60
A6CF-110T	11	15	6	4	2.75	807	65
A6CF-130T	13	17.5	10	4	3.25	857	70
A6CF-150T	15	20	10	4	3.25	877	73
A6CF-185T	18.5	25	10	4	3.25	932	80
A6CF-220T	22	30	10	4	3.25	987	89
A6CF-260T	26	35	10	6	4.25	1057	95
A6CF-300T	30	40	16	6	4.25	1132	117
A6CF-370T	37	50	16	6	5.25	1237	127
A6CF-450T	45	60	16	10	5.25	1312	138



Replace 3rd digit in model name with 'S' for Complete SS304 and 'N' for Complete SS316 Construction.

## Technical Details

50Hz, Three Phase 380-415V, Water Filled Motor (D.O.L. & S.D.)

Model	kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cosØ	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)
A6C-40T	4	5.5	10	43	73	0.75	15500	20	14
A6C-45T	4.5	6	12	48	75	0.75	15500	21	15
A6C-55T	5.5	7.5	14.5	52	77	0.75	15500	24	18
A6C-75T	7.5	10	19.5	70	78	0.78	15500	27	25
A6C-93T	9.3	12.5	25	84	79	0.78	15500	35	31
A6C-110T	11	15	29	102	80	0.80	15500	43	37
A6C-130T	13	17.5	34	118	80.5	0.80	15500	51	43
A6C-150T	15	20	39	148	81	0.80	15500	62	49
A6C-185T	18.5	25	45	188	82	0.82	15500	98	61
A6C-220T	22	30	54	225	82	0.82	15500	118	74
A6C-260T	26	35	66	270	82	0.83	27500	146	86
A6C-300T	30	40	72	355	82	0.83	27500	196	98
A6C-370T	37	50	85	420	82	0.82	27500	242	122
A6C-450T	45	60	96	464	82	0.82	27500	393	150

## Dimensional Details

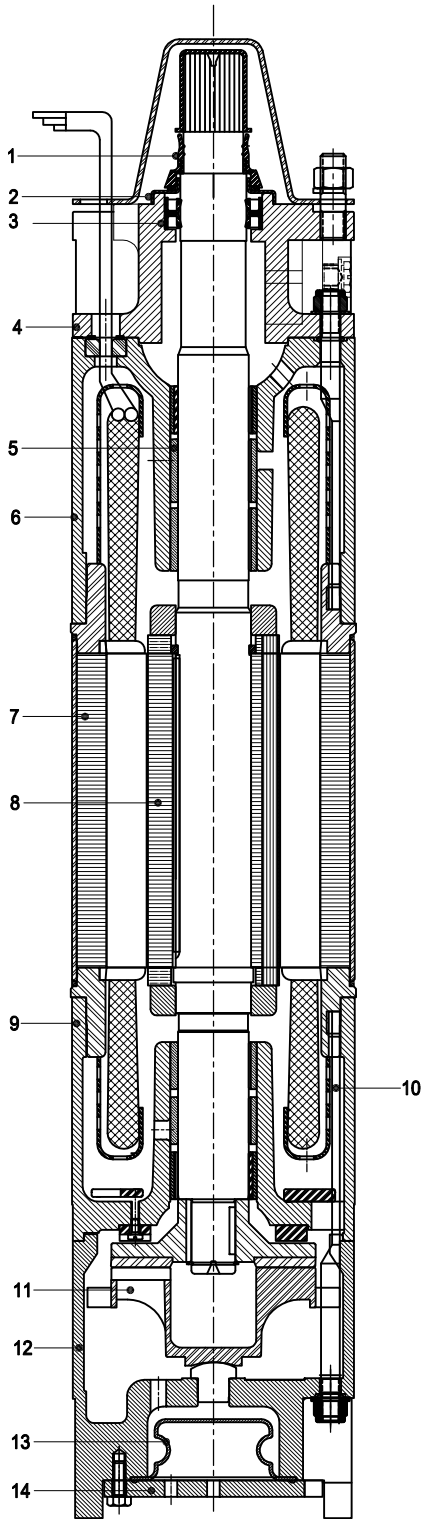
Model	kW	HP	Cable Size D.O.L. (sq. mm)	Cable Size S.D. (sq. mm)	Cable Length (m)	A6C / A6S	
						Height (mm)	Net Weight (kg)
A6C-40T	4	5.5	4	-	2.75	646	51.0
A6C-45T	4.5	6	4	-	2.75	661	53.0
A6C-55T	5.5	7.5	4	2.5	2.75	716	59.0
A6C-75T	7.5	10	4	2.5	2.75	761	65.0
A6C-93T	9.3	12.5	6	2.5	2.75	791	69.0
A6C-110T	11	15	6	4	2.75	851	76.0
A6C-130T	13	17.5	10	4	3.25	881	79.0
A6C-150T	15	20	10	4	3.25	931	85.0
A6C-185T	18.5	25	10	4	3.25	981	92.0
A6C-220T	22	30	10	4	3.25	1071	100.0
A6C-260T	26	35	10	6	4.25	1185	105
A6C-300T	30	40	16	6	4.25	1236	110
A6C-370T	37	50	16	6	5.25	1312	112
A6C-450T	45	60	16	10	5.25	1387	120

Technical Specifications	50 Hz
Nominal Dia	8" Motor (200mm)
Max. Outer Dia	190mm
Power Range	37 to 93 kW
Version	3Ph380-415 V 50 Hz, A.C. Supply
Nominal Speed	2900 rpm
Class of Insulation	Y
Degree of protection	IP 68
Direction of rotation	Counter-Clock Wise
Type of duty	S1 (Continues)
Minimum cooling flow	0.5m/sec
Max. Liquid temp.	33° C
starts per hour	10 Times
Method of starting	37 kW - 93 kW (DOL & S.D.)
Cable leadout type	3 & 4 Core PVC Flat Cable

Materials of Construction	A8C	A8S	A8T
Upper & Lower Housing	CI,FG 200/260	Casted SS304	Casted SS316
Stator Shell	SS 202	SS304	SS316
Thrust Pad	CARBON / TEFLON	CARBON / TEFLON	CARBON / TEFLON
Thrust Bearing	CI, FG 200/ SS 420	SS304 / SS420	SS316 / SS420
Diaphragm	NITRILE RUBBER	NITRILE RUBBER	NITRILE RUBBER
Motor Base	CI, FG 200/260	SS304	SS316
upper housing shell	CI, FG 200/260	SS304	SS316
Shaft	SS 420/431	SS 420/431	SS 420/431
Sleeve	SS 410	SS 410	SS 410

Features
• Easy to dismantle & repair
• High Operating Efficiency
• Specially designed 3 layered Insulation (Polyster+2BOPP) winding wire for better thermal protection
• Spl. Magnet provision at motor base to prevent from free metal particles
• Mounting dimensions as per NEMA standard
• Kingsburry type Thrust bearing to withstand high axial loads
• Spring action pressure compensating Diaphragm
• Specially designed forged MS stator end rings
• On request, Motors can be supplied with PE2-PA winding wire for high temp. applications.
• Motors with Mechanical Seal & PT sensors available, on request

## Cross Sectional View



NO.	PART NAME	MATERIAL
1	SAND SLINGER	8 ROTOR
2	SAND COVER	9 LOWER HOUSING
3	OIL SEAL	10 T-BOLT
4	ADAPTOR	11 THRUST BEARING
5	BEARING BUSH	12 MOTOR BASE
6	UPPER HOUSING	13 DIAPHRAGM
7	STATOR	14 MOTOR BASE PLATE



A8S

A8C

A8CF

## Technical Details

### 50Hz, Three Phase 380-415V, Water Filled Motor

Model	kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. $\cos\theta$	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)
A8C-370T	50	37	85	400	82	0.84	45500	200	122
A8C-450T	60	45	100	520	82	0.84	45500	268	149
A8C-550T	75	55	120	660	83	0.84	45500	370	180
A8C-630T	85	63	135	720	83	0.84	45500	410	206
A8C-750T	100	75	156	935	84	0.85	45500	520	246
A8C-930T	125	93	190	1265	86	0.85	45500	680	306

### Dimensional Details

Model	kW	HP	Cable Size D.O.L. (sq. mm)	Cable Size S.D. (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
A8C-370T	50	37	16.0	10	3.5	1236.5	166.0
A8C-450T	60	45	16.0	10	3.5	1351.5	188.0
A8C-550T	75	55	25.0	25	4.0	1431.5	203.0
A8C-630T	85	63	25.0	25	4.0	1491.5	213.0
A8C-750T	100	75	35.0	25	5.0	1561	230
A8C-930T	125	93	35	35	5.0	1634	245

Technical Specifications	50 Hz
Nominal Dia	9" Motor (225mm)
Max. Outer Dia	225mm
Power Range	55 to 110 kW
Version	3Ph - 380-415 V 50 Hz, A.C. Supply
Nominal Speed	2900 rpm
Class of Insulation	F
Degree of protection	IP 58
Direction of rotation	Counter-clock Wise
Type of duty	S1 (Continues)
Minimum cooling flow	0.15 m/sec
Max. Liquid temp.	33°/50°C
starts per hour	10 Times
Method of starting	55 to 110 kW(DOL & S.D.)
Cable leadout type	3 & 4 Core PVC Flat Cable
Mounting	8" NEMA

Materials of Construction	A9C
Upper & Lower Housing	CI,FG 200/260
Stator Shell	SS 202
Thrust Pad	CARBON / TEFLON
Thrust Bearing	CI, FG 200/ SS 420
Diaphragm	NITRILE RUBBER
Motor Base	CI, FG 200/260
upper housing shell	CI, FG 200/260
Shaft	SS 420/431
Sleeve	SS 410

### Features

- Easy to dismantle & repair
- High Operating Efficiency
- Mounting dimensions as per NEMA standard
- Kingsbury type Thrust bearing to withstand high axial loads
- Spring action pressure compensating Diaphragm
- On request, Motors can be supplied with PE2-PA winding wire for high temp. applications.
- Motors with Mechanical Seal & PT sensors available, on request

## Technical Details

### 50Hz, Three Phase, 380-415V Water filled motor

Model	kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. % $\cos\phi$	Max. Down thrust Load (N)	Cable Size (sq.mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
A9C-930T	55	75	106	349	83	0.82	60000	25	4	1545	258
A9C-A10T	63	85	122	369	84	0.83	60000	25	4	1615	300
A9C-A30T	75	100	149	476	84	0.84	60000	25	4	1685	316
A9C-A50T	93	125	168	524	84	0.85	60000	25	4	1815	337
A9C-A65T	110	150	198	560	85	0.85	60000	35	4	1931	388

Technical Specifications	50 Hz
Nominal Dia	10" Motor (250mm)
Max. Outer Dia	231mm
Power Range	81 to 185 kW
Version	3Ph - 380-415 V 50 Hz, A.C. Supply
Nominal Speed	2900 rpm
Class of Insulation	Y
Degree of protection	IP 68
Direction of rotation	Counter-clock Wise
Type of duty	S1 (Continues)
Minimum cooling flow	0.5 m/sec
Max. Liquid temp.	33° C
starts per hour	10 Times
Method of starting	81 kW - 185 kW (DOL & S.D.)
Cable leadout type	3 & 4 Core PVC Flat Cable

Materials of Construction	A10C	A10S	A10T
Upper & Lower Housing	Cl,FG 200/260	Casted SS304	Casted SS316
Stator Shell	SS 202	SS304	SS316
Thrust Pad	CARBON / TEFLON	CARBON / TEFLON	CARBON / TEFLON
Thrust Bearing	Cl, FG 200/ SS 420	SS304 / SS420	SS316 / SS420
Diaphragm	NITRILE RUBBER	NITRILE RUBBER	NITRILE RUBBER
Motor Base	Cl, FG 200/260	SS304	SS316
upper housing shell	Cl, FG 200/260	SS304	SS316
Shaft	SS 420/431	SS 420/431	SS 420/431
Sleeve	SS 410	SS 410	SS 410

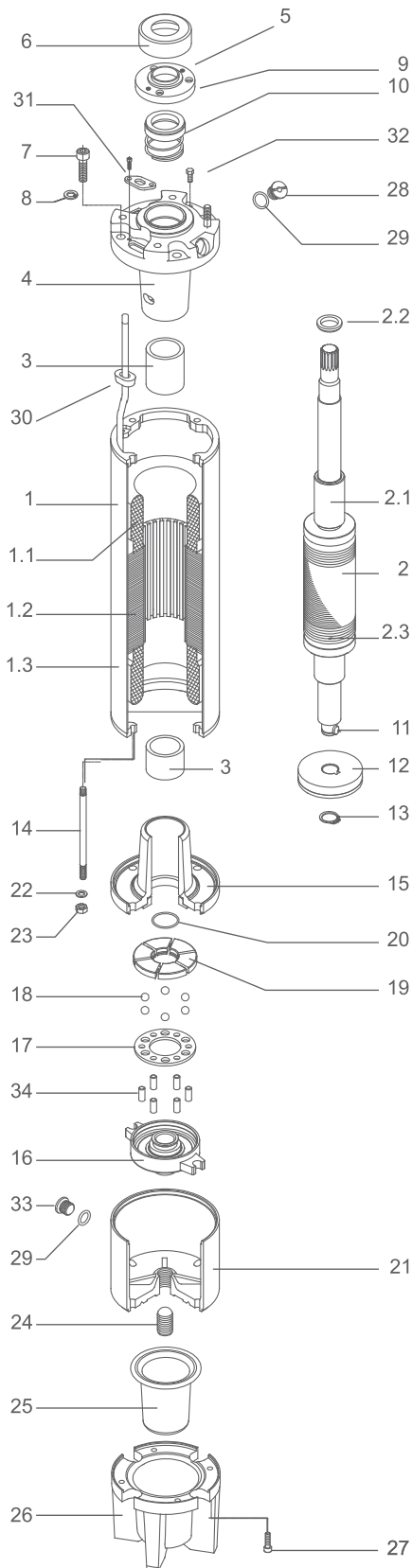
Features
• Easy to dismantle & repair
• High Operating Efficiency
• Mounting dimensions as per NEMA standard
• Kingsbury type Thrust bearing to withstand high axial loads
• Spring action pressure compensating Diaphragm
• On request, Motors can be supplied with PE2-PA winding wire for high temp. applications.
• Motors with Mechanical Seal & PT sensors available, on request



## Technical Details

### 50Hz, Three Phase, 380-415V Water filled motor

Model	kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. % cosØ	Max. Down thrust Load (N)	Cable Size D.O.L. (sq.mm)	Cable Size S.D. (sq.mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
A10C-810T	81	110	153	590	85	0.89	75000	25	16	4	1370	225
A10C-930T	93	125	174	671	85	0.89	75000	25	16	4	1430	274
A10C-A10T	110	150	210	811	85	0.88	75000	25(2)	25	4	1510	299
A10C-A30T	130	175	238	919	87	0.89	75000	25(2)	25	4	1610	328
A10C-A50T	150	200	274	1059	87	0.89	75000	35(2)	35	4	1740	368
A10C-A65T	165	225	309	1196	86	0.89	75000	35(2)	35	4	1820	402
A10C-A85T	185	250	349	1348	85	0.89	75000	35(2)	35	4	1820	436



No	Part Name
1	Stator
1.1	Winding wire
1.2	Stator package
1.3	Stator shell
2	Rotor
2.1	Shaft sleeve
2.2	Balance ring
2.3	Copper ring
3	Radial bearing
4	Upper bearing body
5	Bushing
6	Slinger (sand guard)
7	Hexagon socket cap screws
8	Copper ring
9	Cover seal
10	Mechanical seal
11	Axial thrust bearing key
12	Axial thrust bearing
13	Retaining ring
14	Tie rod
15	Lower bearing body
16	Thrust bearing support
17	Ball holder
18	Thrust bearing ball
19	Tilting pads
20	O-ring
21	Thrust bearing body
22	Copper ring
23	Nut
24	Screw (thrust bearing base)
25	Membrane
26	Membrane body
27	Hexagon socket cap screws
28	Check-valve
29	O-ring
30	Cable seal
31	Seal cover
32	Nut
33	Plush ® 3/8"
34	Ball holder pins

# PMSM Submersible Motors



## FEATURES

- Suitable for size of 100 mm (4"), 150 mm (6") & above bore well respectively.
- Up to 90% Motor Efficiency
- 20 to 30% Higher Efficiency than Star Rated Pump sets.
- Easy Rewindable & Repairable Water Filled Submersible Motor.
- Smooth Starting Using VFD Controller and can be Used Low Voltage Area.
- Virtually NO Maintenance Cost.
- Premium Material SS/CI Robust Construction
- Nema Standards,
- Suitable for 110 to 415 Voltages for 3-phase.
- Frequency: Upto 110 Hz / 145 Hz
- Speed: 3300 RPM / 4350 RPM

### Technical Specifications

Nominal Dia	4" Motor (100mm)	
Max. Outer Diameter	3.74" (95 mm)	
Power Range	3Ph	1 HP to 10 HP
Nominal Speed	3300 RPM & 4500 RPM	
Voltage Range	3Ph	110V to 450V, 60 Hz, A.C Supply
Class of Insulation	F	
Degree of protection	IP 58	
Direction of rotation	Anti-Clock wise	
Type of duty	S1 (continues)	
Minimum cooling flow	0.15 m/sec	
Max. Liquid temp.	92°F / 120°F (33°C / 50°C)	
Starts per hour	20 Times	
Method of starting	1 HP to 10 HP (VFD)	
Cable lead out type	3 Core Flat Cable	

### Technical Specifications

Nominal Dia	6" Motor ( 50mm)	
Max. Outer Diameter	5.66" (144 mm)	
Power Range	3Ph	15 HP & 20 HP
Nominal Speed	3300 RPM & 4500 RPM	
Voltage Range	3Ph	110V to 450V, 60 Hz, A.C Supply
Class of Insulation	F	
Degree of protection	IP 58	
Direction of rotation	Anti-Clock wise	
Type of duty	S1 (Continues)	
Minimum cooling flow	0.15 m/sec	
Max. Liquid temp.	92° F / 120° F (33° C / 50° C)	
Starts per hour	20 Times	
Method of starting	15 HP & 20 HP (VFD)	
Cable lead out type	3 Core Flat Cable	

### Technical Details

Model	Motor Rated Power - P <sub>2</sub> (kW)	Motor Rated Power - P <sub>2</sub> (HP)	Motor input Power - P <sub>1</sub> (W)	Motor Nominal Voltsge	Max. PV Panel Power Voltage - Vmp	Current at Vmp - Imp (A)	Full Load Efficiency (%)	Full Load Power Factor	Height (mm)	Net Weight (kg)
PM4-07T	0.75	1	1200	80	111	9	79	0.83	390	12
PM4-07T	0.75	1	1200	110	148	10	79	0.83	390	12
PM4-15T	1.5	2	1800	160	222	9	81	0.83	410	12.5
PM4-22T	2.2	3	3000	230	370	10	85	0.82	440	15
PM4-37T	3.7	5	4800	380	555	10	85	0.82	490	18
PM4-55T	5.5	7.5	6750	280	407	18	87	0.84	540	20
PM4-75T	7.5	10	9000	380	555	18	87	0.84	600	24

Model	Motor Rated Power - P <sub>2</sub> (kW)	Motor Rated Power - P <sub>2</sub> (HP)	Motor input Power - P <sub>1</sub> (W)	Motor Nominal Voltsge	Max. PV Panel Power Voltage - Vmp	Current at Vmp - Imp (A)	Full Load Efficiency (%)	Full Load Power Factor	Height (mm)	Net Weight (kg)
PM6-110T	11	15	14400	380	555	27	90	0.85	769	57
PM6-150T	15	20	18000	380	555	36	90	0.86	841	65

# FRICION LOSS TABLE

FRICION LOSS IN METER FOR GALVANIZED PIPE (C-100/PER MTR.)									
Flow Rate In LPM	Nominal Pipe Dia in mm/inches								
	25/1"	32/1.25"	40/1.5"	50/2"	65/2.5"	80/3"	100/4"	125/5"	150/6"
30	0.098								
60	0.362	0.1197							
75	0.532	0.1808	0.0748						
96	0.840	0.2856	0.1181	0.0287					
120	1.260	0.4314	0.1785	0.0434					
150		0.0519	0.2697	0.0656	0.0221				
192		1.0293	0.4257	0.1035	0.0349				
240			0.6133	0.1565	0.0528	0.0217			
300			0.9721	0.2362	0.0798	0.0328			
480				0.5641	0.1903	0.0783			
600				0.8523	0.2875	0.1183	0.0291		
760				1.2879	0.4345	0.1788	0.0440		
960				2.0332	0.6859	0.2823	0.0695	0.0235	
1200				3.0727	1.0365	0.4265	0.1051	0.0354	
1500					1.5662	0.6445	0.1588	0.0536	0.0220
1920					2.4728	1.0176	0.2507	0.0846	0.0348
2400						1.5376	0.3788	0.1278	0.0526
2400							0.3788	0.1278	0.0526
3000							0.5724	0.1931	0.0795
3600							0.8020	0.2705	0.1113
4800							1.3656	0.4606	0.1896
6000								0.6960	0.2864
7500								1.0518	0.4328

FRICION LOSS IN METER FOR GALVANIZED PIPE (C-100/PER MTR.)									
Flow Rate In LPM	Nominal Pipe Dia in mm/inches								
	25/1"	32/1.25"	40/1.5"	50/2"	65/2.5"	80/3"	100/4"	125/5"	150/6"
30	0.046								
60	0.166	0.0565							
75	0.251	0.0854	0.0353						
96	0.397	0.1349	0.0558	0.0136					
120	0.599	0.2038	0.0843	0.0205					
150		0.3079	0.1274	0.0310	0.0104				
192		0.4861	0.2011	0.0489	0.0165				
240			0.3039	0.0739	0.0249	0.0103			
300			0.4591	0.1117	0.0377	0.0155			
480				0.2661	0.0899	0.0370			
600				0.4025		0.0559	0.0139		
760				0.6083	0.2052	0.0844	0.0208		
960				0.9604	0.3240	0.1333	0.0328	0.0111	
1200				1.4513	0.4895	0.2015	0.0496	0.0167	
1500					0.7397	0.3044	0.0750	0.0253	0.0104
1920					1.1679	0.4806	0.1184	0.0399	0.0164
2400						0.7262	0.1789	0.0604	0.0248
2400							0.1789	0.0604	0.0248
3000							0.2703	0.0912	0.0375
3600							0.3788	0.1278	0.0526
4800							0.6150	0.2176	0.0895
6000								0.3288	0.1353
7500								0.4968	0.2044

# CABLE SELECTION CHART

## SUBMERSIBLE PUMPSET CABLE SELECTION CHART FOR 220 VOLTAGE -SINGLE PHASE- 50 Hz

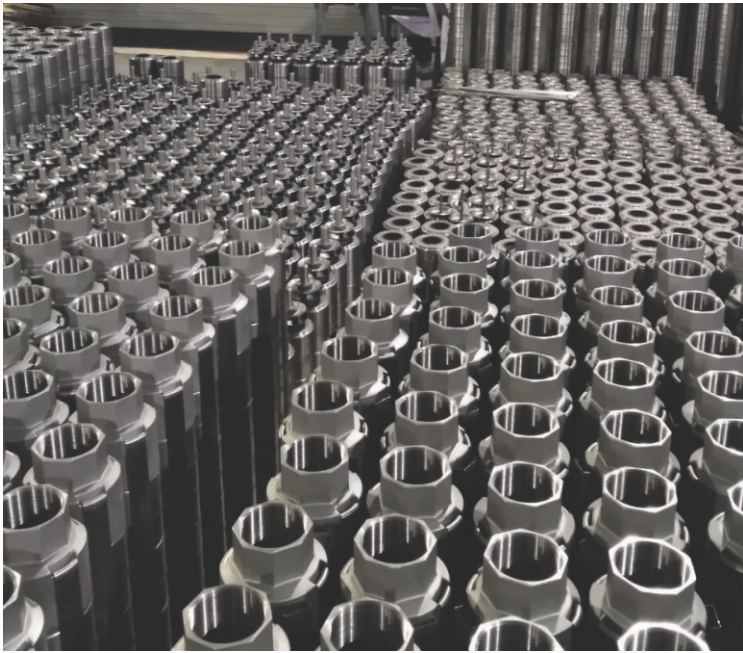
HP	INSTALLATION DEPTH IN MTR																					
	10	20	30	40	50	60	70	80	90	100	110	128	140	180	200	220	270	320	370	420	470	500
0.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4	4	4	6	6	6	6
0.75	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	4	4	4	6	6	10	10	10	10
1	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	4	4	4	6	6	6	10	10	10	16	16
1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4	4	4	4	6	6	6	10	10	10	16	16	16	16	25
2	2.5	2.5	2.5	2.5	2.5	2.5	4	4	4	4	6	6	6	10	10	10	16	16	16	25	25	25
3	2.5	2.5	2.5	2.5	4.5	4	6	6	6	6	10	10	10	16	16	16	25	25	35	35	35	35
4	4	4	4	4	4	6	6	6	6	10	10	10	16	16	16	25	25	35	35	35	35	35
5	4	4	4	4	6	6	10	10	10	10	10	16	16	25	25	25	35	35	35	50	50	50
6	6	6	6	6	10	10	10	10	10	10	16	16	25	25	25	35	35	35	50	50	50	50
7.5	6	6	6	6	10	10	10	10	10	10	16	25	25	25	35	35	35	50	50	50	50	50
10	10	10	10	10	10	10	10	10	10	16	25	25	25	35	35	35	50	50	50	50	50	50

## SUBMERSIBLE PUMPSET CABLE SELECTION CHART FOR 415 VOLTAGE DOUBLE CABLE- THREE PHASE - 50 Hz

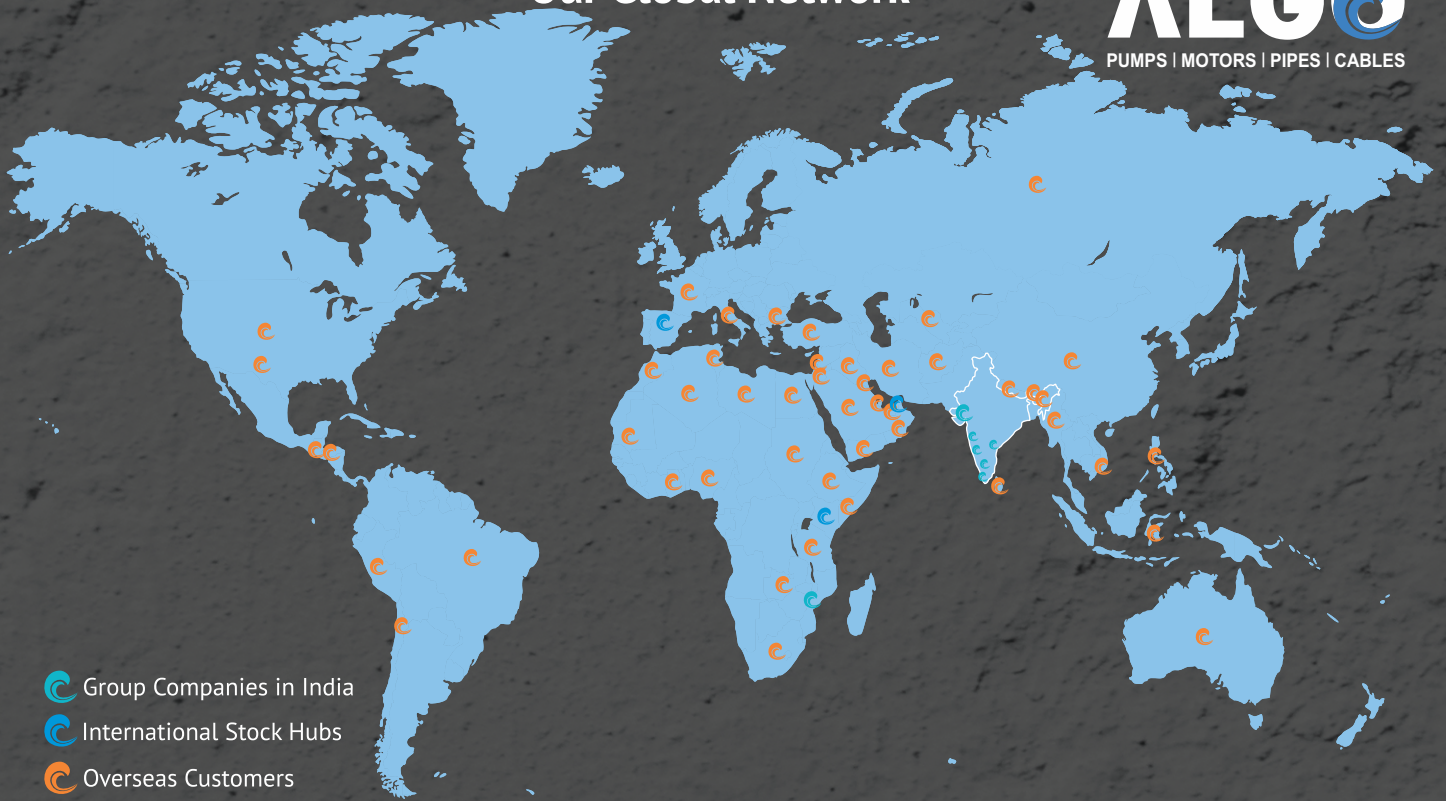
HP	INSTALLATION DEPTH IN MTR																					
	10	20	30	40	50	60	70	80	90	100	110	128	140	180	200	220	370	320	370	420	470	500
7.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	1.5	2.5	2.5	2.5	4	4	4	6	6	6	6	10	10
10	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4	4	4	6	6	6	10	10	10	10	16
12.5	4	4	4	4	4	4	4	4	4	4	4	4	6	6	6	10	10	10	16	16	16	16
15	4	4	4	4	4	4	4	4	4	4	4	4	6	6	6	10	10	10	16	16	16	16
17.5	4	4	4	4	4	4	4	4	4	4	6	6	6	10	10	10	10	16	16	16	25	25
20	4	4	4	4	4	4	4	4	4	4	6	6	6	10	10	10	10	16	16	16	25	25
22.5	6	6	6	6	6	6	6	6	6	6	6	10	10	10	10	16	16	16	25	25	25	25
25	6	6	6	6	6	6	6	6	6	6	6	10	10	10	10	16	16	16	25	25	25	25
30	6	6	6	6	6	6	6	6	6	6	10	10	10	10	16	16	16	25	25	25	35	35
35	8	8	8	8	8	8	8	10	10	10	10	10	16	16	16	25	25	25	35	35	50	50
40	8	8	8	8	8	8	8	10	10	10	10	10	16	16	16	25	25	25	35	35	50	50
45	10	10	10	10	10	10	10	10	10	10	16	16	16	25	25	25	25	35	50	50	50	50
50	10	10	10	10	10	10	10	10	10	10	16	16	16	25	25	25	25	35	50	50	50	50
60	10	10	10	10	10	10	10	10	10	16	16	16	25	25	25	25	35	50	50	50	-	-
75	16	16	16	16	16	16	16	16	16	16	16	25	25	25	35	35	50	50	50	-	-	-
85	16	16	16	16	16	16	16	16	16	16	25	25	25	35	35	50	50	-	-	-	-	-
100	16	16	16	16	16	16	16	16	16	16	25	25	25	35	35	50	50	50	-	-	-	-
125	25	25	25	25	25	25	25	25	25	25	25	35	35	35	50	50	-	-	-	-	-	-

## SUBMERSIBLE PUMPSET CABLE SELECTION CHART FOR 415 VOLTAGE SINGLE CABLE - THREE PHASE - 50 Hz

HP	INSTALLATION DEPTH IN MTR																					
	10	20	30	40	50	60	70	80	90	100	110	128	140	180	200	220	270	320	370	420	470	500
0.75	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5
2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	4
3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4	4	4	6	6
4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4	4	4	6	6	6	6
5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4	4	4	4	6	6	10	10	10
6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	6	10	10	10
7.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	10	10	10	16	16
10	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	10	10	10	16	16	16	16
12.5	6	6	6	6	6	6	6	6	6	6	6	6	6	10	10	10	16	16	16	25	25	25
15	6	6	6	6	6	6	8	8	8	8	8	8	8	10	10	10	16	16	16	25	25	25
17.5	6	6	6	6	6	6	8	8	8	8	8	10	10	10	16	16	16	25	25	25	35	35
20	8	8	8	8	8	8	8	8	8	8	8	10	10	10	16	16	16	25	25	25	35	35
22.5	8	8	8	8	8	8	8	8	10	10	10	10	10	16	16	16	25	25	35	35	35	50
25	8	8	8	8	8	8	8	8	10	10	10	10	10	16	16	16	25	25	35	35	35	50
30	10	10	10	10	10	10	10	10	10	10	10	16	16	16	25	25	25	35	35	50	50	50
35	16	16	16	16	16	16	16	16	16	16	16	16	16	25	25	25	35	50	50	50	-	-
40	16	16	16	16	16	16	16	16	16	16	16	16	16	25	25	25	35	50	50	50	-	-
45	16	16	16	16	16	16	16	16	16	16	16	25	25	25	35	35	35	50	50	50	-	-
50	16	16	16	16	16	16	16	16	16	16	16	25	25	25	35	35	35	50	50	50	-	-
60	25	25	25	25	25	25	25	25	25	25	25	25	25	35	35	50	50	50	-	-	-	-
75	25	25	25	25	25	25	25	25	25	25	25	35	35	50	50	50	-	-	-	-	-	-
85	50	50	50	50	50	50	50	50	50	50	50	50	50	50	-	-	-	-	-	-	-	-
100	50	50	50	50	50	50	50	50	50	50	50	50	50	50	-	-	-	-	-	-	-	-
125	50	50	50	50	50	50	50	50	50	50	50	50	50	50	-	-	-	-	-	-	-	-



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### ALGO HYDRO TECH

No: 9/132-7, Kalapatti Main Road,  
Kaikolapalayam, Mylapatti - Post,  
Coimbatore - 641 062. Tamilnadu

Tel: +91 99761 70074

Email : salescbe@algotpumps.com

### ALGO HYDRO TECH

6 Ward 11 Murari Junction  
Kollam Ayoor Road, Mukthala

Kollam - 691 577. Kerala

Tel.: +91 90873 70074 / 96555 00360

E-mail : saleskl@algotpumps.com

### ALGO AQUA TECH

43 / 2 / 2 Krushnai ware house,  
Manter Wadi Urulidevachi, B/h Sai Om Petrol Pump,  
Pune - 412 308. Maharashtra

Tel.: +91 74474 61552

E-mail : salespune@algotpumps.com

### ALGO AQUA TECH

No: 17, 5th floor, C - Building,  
Gami Industrial Park, Pavane,  
Navi Mumbai - 400 705. Maharashtra

Tel.: +91 91580 01551

E-mail : salesmumbai@algotpumps.com

### ALGO PUMP TECHNICK

3, 2 / part, Wahab Nagar, Sikh Village,  
Secundrabad, Hyderabad - 500 009. Telangana

Tel.: +91 96555 00959

E-mail : salesapt@algotpumps.com

### ALGO FLUID TECHNIKS SA (PTY) LTD.

Unit 20 Mifa Industrial Park, 399 George  
Street Randjies Park, Midrand - 1685,  
Johannesburg, Gauteng, South Africa

Tel.: +2773160479 / +27785068977

E-mail : info@algotpump.co.za

Web: www.algotpump.co.za

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