

NEW

Submersible Pumps Hydra Series - 50 Hz

Zirantec



www.zirantec.com

Hydra SERIES

An ISO 9001 Company

CE*

* For Specific models only.



ZIRANTEC products are designed & manufactured by well qualified and experienced Engineers in state of the art manufacturing facilities

CERTIFICATION



ZIRANTEC Pumps & Motors are from the house of **Fabbrica Italiana Pompe Sommergibili S.r.l.** a four decades old Italian company of high repute, offering complete waste water solutions around the world. Its current product portfolio includes world class Waste Water Pumps of various types, Multistage Centrifugal Pressure Booster Pumps, Borehole Submersible Pumps & Motors, End Suction Centrifugal Pumps, Industrial Pumps for various applications.

Founded as early as 1978 in Rozzano, South of Milan, Italy by Mr.Orfeo Agostini, the company has witnessed steady growth and market expansion continuously ever since. In these four decades of existence, the company has carved a niche for itself in the waste water and sewage pump market in Italy and other countries. Its products are employed in Municipal, Domestic and Industrial applications. The Company is well known for the unique and robust designs of its products and their workmanship. Due to its superior quality ZIRANTEC products are also exported to many European, African and Asian countries.

ZIRANTEC's products are designed and manufactured to meet high quality Standards and they are 'CE' certified. The Facility is accredited with ISO 9001 Certification.

Over the years, the company has metamorphosed and ventured into manufacturing of high quality water pumps, for domestic, agricultural and industrial applications. In the due process, Fabbrica Italiana Pompe Sommergibili S.r.l. has shed its image of an exclusive sewage and waste water pumps manufacturer to a complete pump production company with an ability to manufacture diverse kinds of pumps for different applications.

C O N T E N T S

SUBMERSIBLE PUMPS & MOTORS HYDRA SERIES (50HZ)

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SUBMERSIBLE PUMPS

Zirantec Hydra series pumps are designed for pumping liquid from deep wells. These pumps are of multistage centrifugal type supplied with radial or mixed flow engineering thermoplastic impellers and diffusers for higher head and flow requirements. All the metal and non-metal components that come into contact with the liquid are made of stainless steel and food grade engineering thermoplastic. The optimized hydraulic design offers maximum efficiency at deeper installations. Floating impeller design can handle little higher sand than the normal pump and reduce the down thrust load that is transferred to motor. These pumps are offered in P and Y type construction suitable for 3" & 4" and above diameter borewells. All mounting dimensions of the 4" pumps are in accordance with NEMA standards.

DESIGN FEATURES

- High efficiency
- Wide hydraulic ranges
- Floating impeller design
- Stainless steel Inlet & Outlet

APPLICATIONS

- Ground water supply to residences and commercial buildings
- Agriculture
- Pressure boosting system
- Fountains
- Gardens
- Landscaping
- Livestock watering

PUMPED LIQUIDS

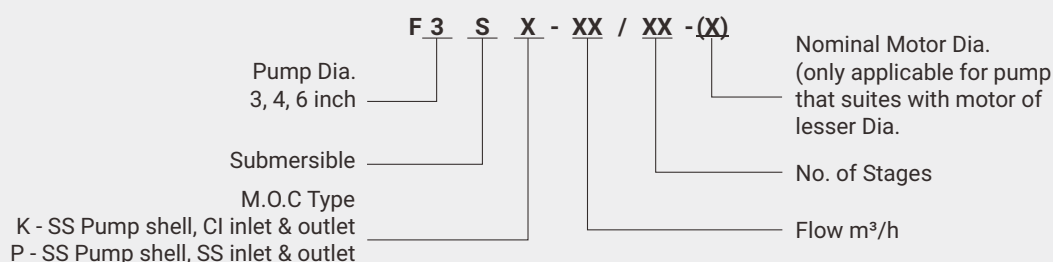
Clear, Thin, Non-aggressive, Non explosive, Clear, Cold, Fresh Water without abrasives, Solid particles or fibre having the following characteristics

a) Temperature	40°C (max.)
b) Permissible amount of sand	50 g/m ³ (max.)
c) Chlorine ion density	500 ppm (max.)
d) Allowable solids	100 ppm (max.)
e) Specific gravity	1.004 (max.)
f) Hardness (Drinking water)	300 (max.)
g) Kinematic viscosity	1 mm ² /s (1cSt) (max.)
h) Turbidity	50 ppm silica scale(max.)
i) pH	6.5 to 8.5

PUMP OPERATING LIMITATIONS

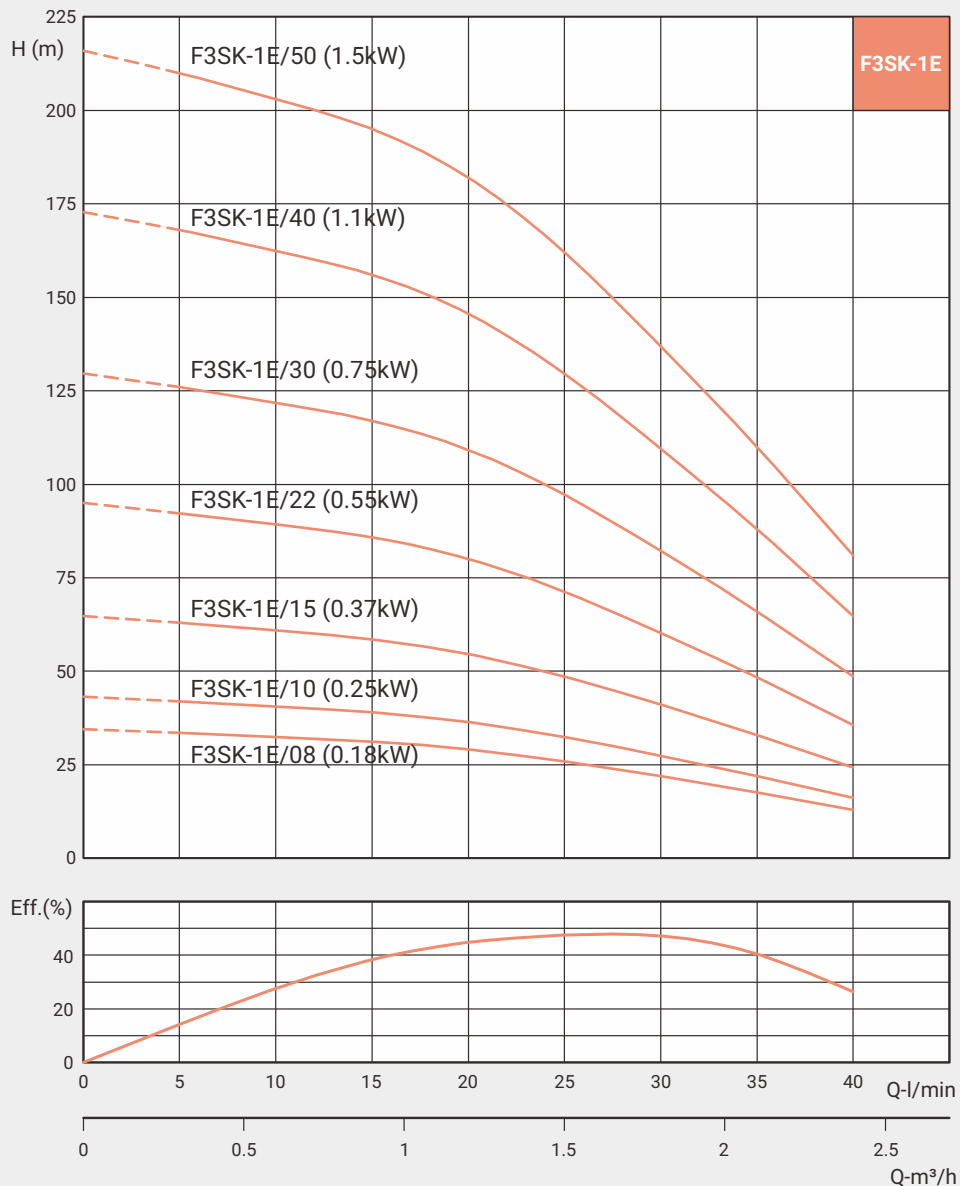
Nominal Diameter	3"(75mm)	4"(97mm)	6"(150mm)
Power Range	0.18 - 1.5 kW	0.37 - 7.5 kW	2.2 - 30 kW
Speed	2850 rpm	2850 rpm	2850 rpm
Discharge Range	0.60 - 3.6 m ³ /h	0.60 - 21 m ³ /h	3 - 72 m ³ /h
Head Range	13 - 210 m	12 - 430 m	3 - 446 m
Outlet Size	1"	1¼", 1½" & 2"	2½" & 3"

MODEL IDENTIFICATION OF SUBMERSIBLE PUMPS



PERFORMANCE CURVE & DATA

3"



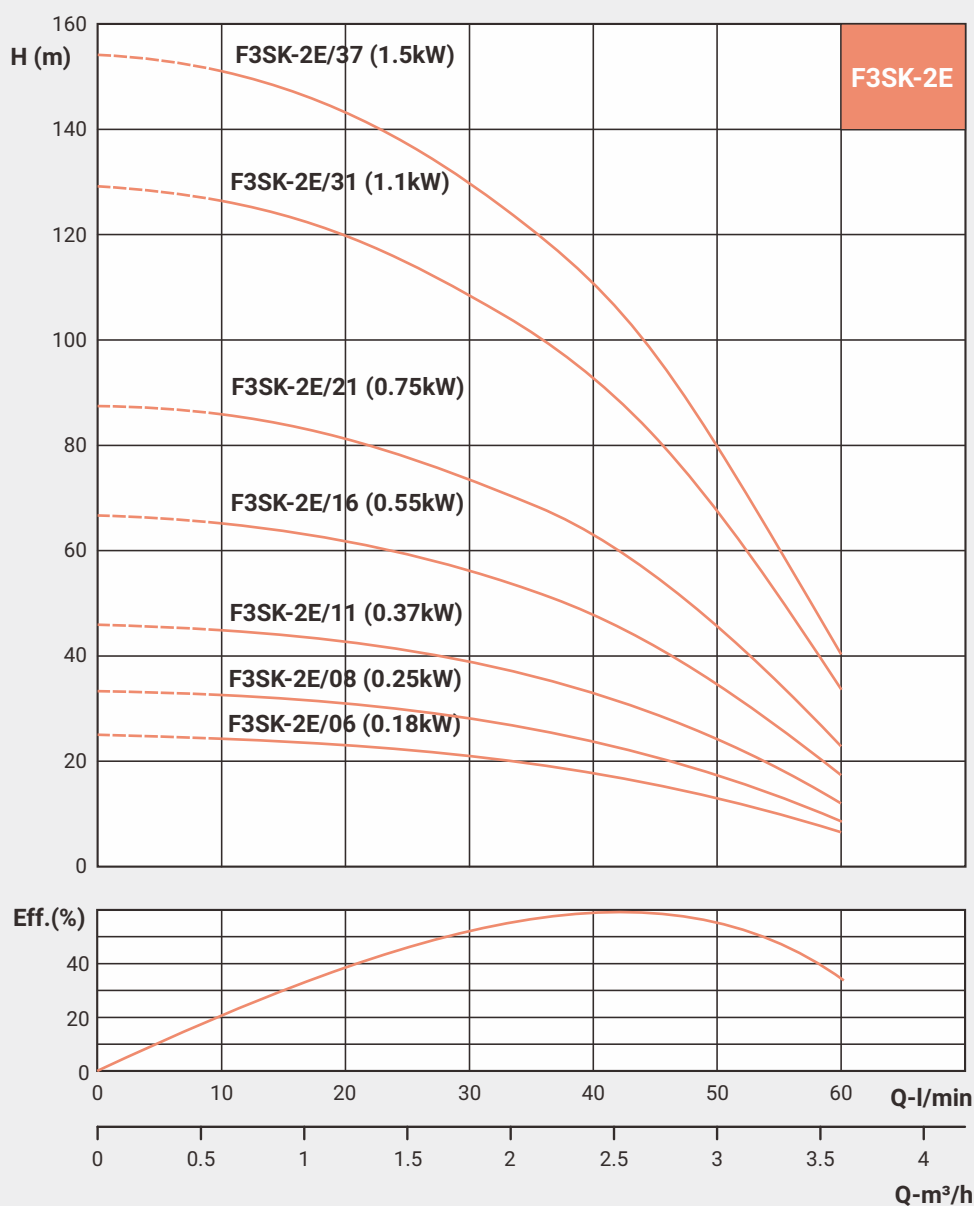
SPEED : 2850 rpm

OUTLET SIZE : 1" BSP

PUMP MODEL	POWER		m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	MOTOR MODEL	RATED CURRENT (A)
	kW	HP												
F3SK-1E/08	0.18	0.25	Head in Meters	35	34	32	31	29	26	22	18	13	FM30-01AN	-
F3SK-1E/10	0.25	0.33		43	42	41	39	36	32	27	22	16	FM30-02AN	2.5 A
F3SK-1E/15	0.37	0.5		65	63	61	59	55	49	41	33	24	FM30-03AN	3.6 A
F3SK-1E/22	0.55	0.75		95	92	89	86	80	71	60	48	36	FM30-05AN	4.8 A
F3SK-1E/30	0.75	1.0		130	126	122	117	109	97	82	66	49	FM30-07AN	6.2 A
F3SK-1E/40	1.1	1.5		173	168	162	156	146	130	110	88	65	FM30-11AN	8.5 A
F3SK-1E/50	1.5	2.0		216	210	203	195	182	162	137	110	81	FM30-15AN	10.8 A

PERFORMANCE CURVE & DATA

3"



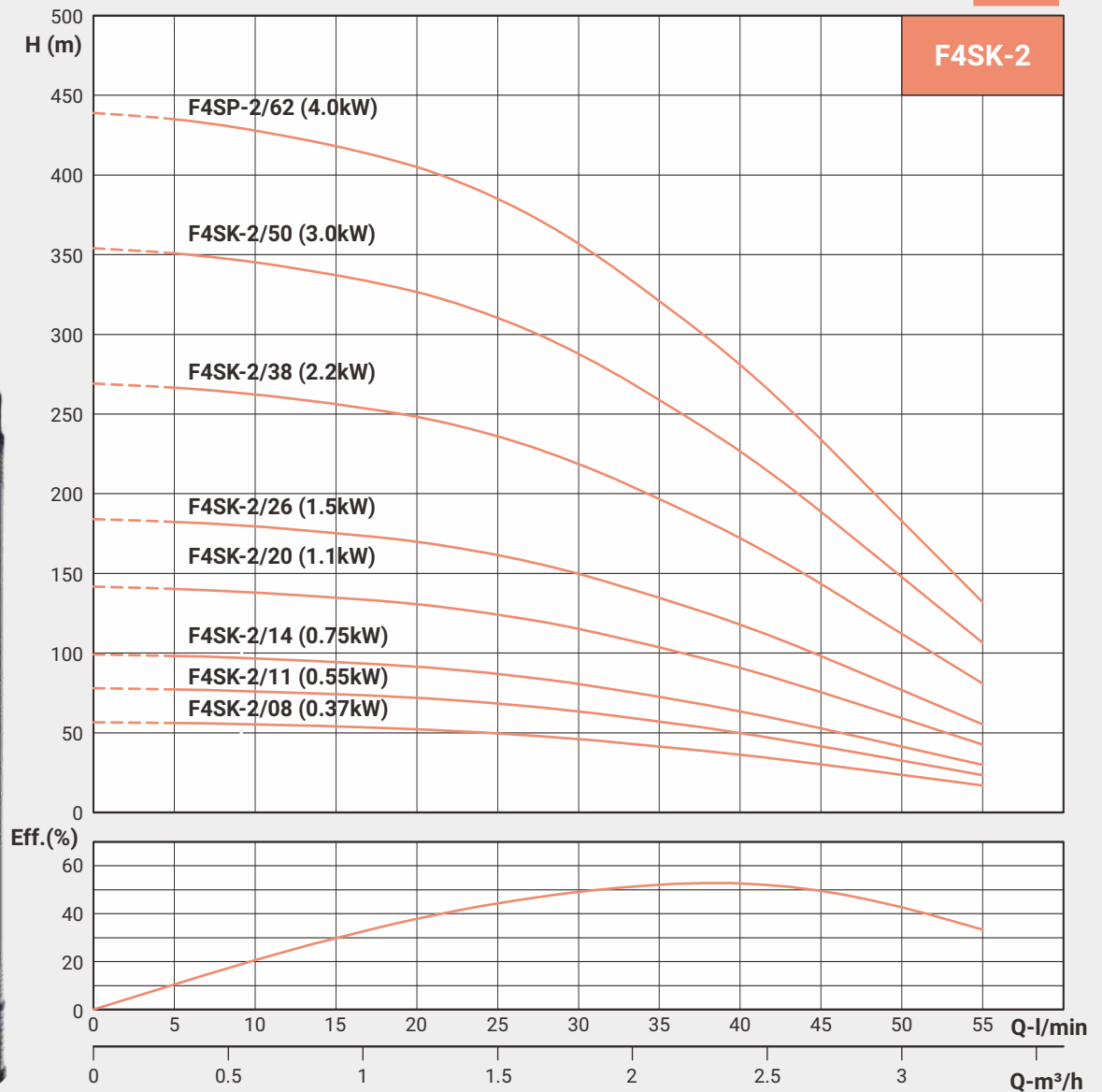
SPEED : 2850 rpm

OUTLET SIZE : 1" BSP

PUMP MODEL	POWER		m³/h l/min	0	0.6	1.2	1.8	2.4	3.0	3.6	MOTOR MODEL	RATED CURRENT (A)
	kW	HP		0	10	20	30	40	50	60		
F3SK-2E/06	0.18	0.25	Head in Meters	25	25	23	21	18	13	6	FM30-01AN	-
F3SK-2E/08	0.25	0.33		33	33	31	28	24	17	9	FM30-02AN	2.5 A
F3SK-2E/11	0.37	0.5		46	45	43	38	33	24	12	FM30-03AN	3.6 A
F3SK-2E/16	0.55	0.75		67	65	62	56	48	35	17	FM30-05AN	4.8 A
F3SK-2E/21	0.75	1.0		88	86	81	73	63	45	23	FM30-07AN	6.2 A
F3SK-2E/31	1.1	1.5		129	127	120	109	93	67	34	FM30-11AN	8.5 A
F3SK-2E/37	1.5	2.0		154	151	143	130	111	80	40	FM30-15AN	10.8 A

PERFORMANCE CURVE & DATA

4"



SPEED : 2850 rpm

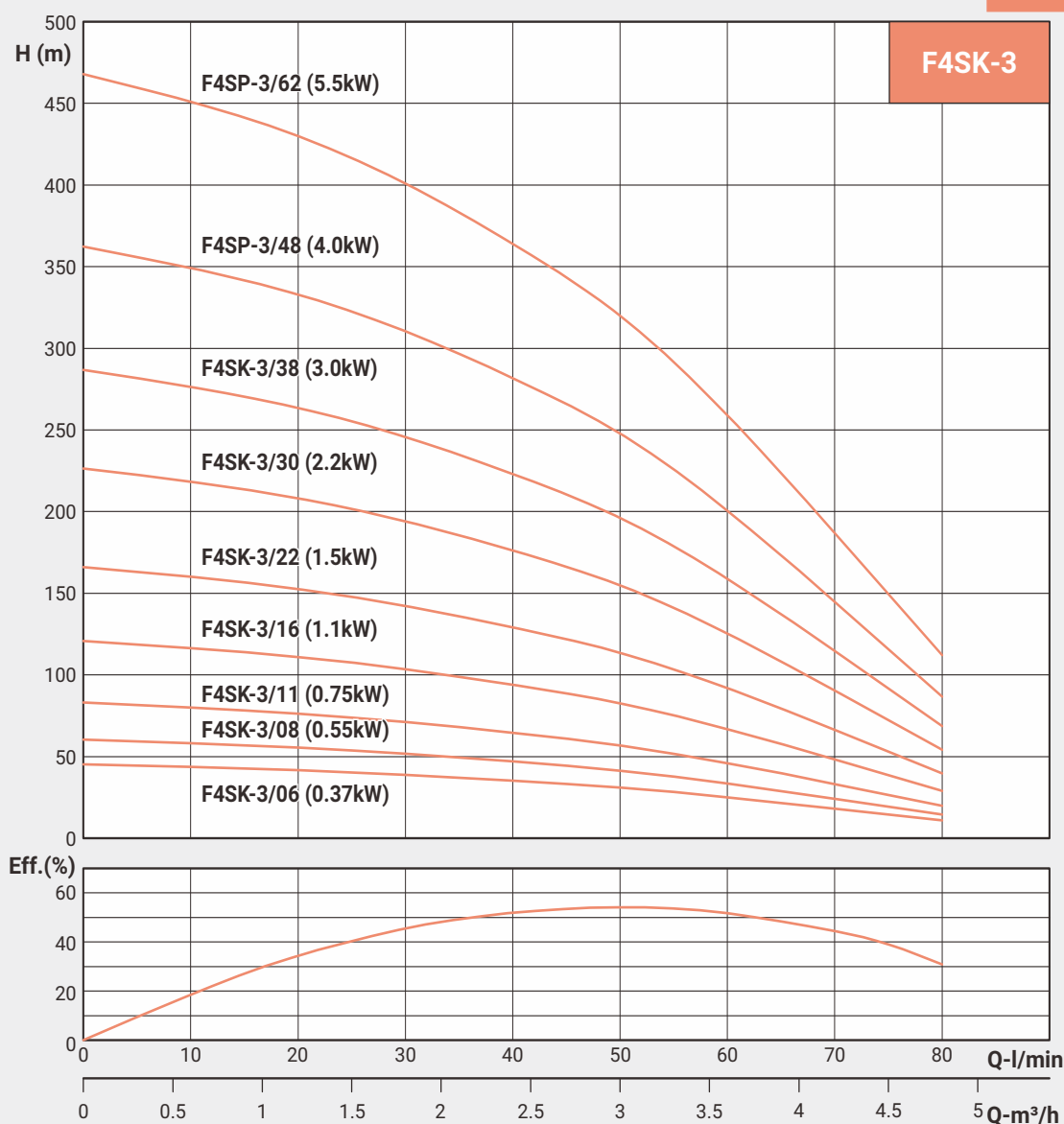
OUTLET SIZE : 1 1/4" BSP

PUMP MODEL	POWER		m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3
	kW	HP		0	5	10	15	20	25	30	35	40	45	50	55
F4SK-2/08	0.37	0.5	Head in Meters	57	56	55	54	52	50	46	41	36	30	24	17
F4SK-2/11	0.55	0.75		78	77	76	74	72	68	63	57	50	42	32	23
F4SK-2/14	0.75	1.0		99	98	97	94	91	87	81	72	63	53	41	30
F4SK-2/20	1.1	1.5		142	140	138	135	131	124	115	104	91	75	59	43
F4SK-2/26	1.5	2.0		184	182	179	175	170	161	150	135	118	98	77	55
F4SK-2/38	2.2	3.0		269	267	262	256	248	236	219	197	172	143	112	81
F4SK-2/50	3.0	4.0		354	351	345	337	327	310	288	259	227	189	148	106
F4SP-2/62	4.0	5.5		439	435	428	418	405	385	357	321	281	234	183	132

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PERFORMANCE CURVE & DATA

4"



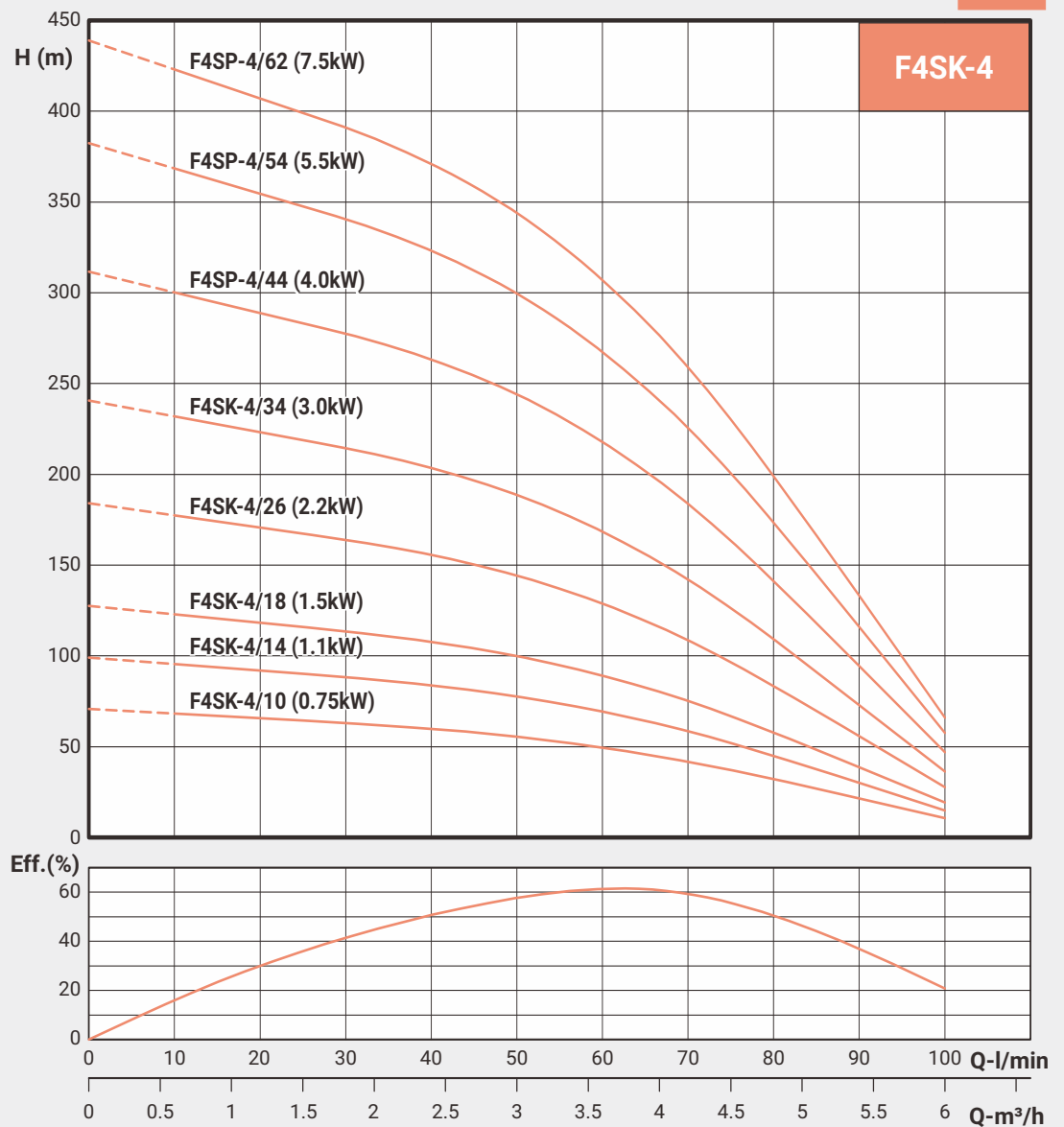
SPEED : 2850 rpm

OUTLET SIZE : 1 1/4" BSP

PUMP MODEL	POWER		m³/h l/min	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8
	kW	HP		0	10	20	30	40	50	60	70	80
F4SK-3/06	0.37	0.5	Head in Meters	45	44	42	39	35	31	25	18	11
F4SK-3/08	0.55	0.75		60	58	55	52	47	41	33	24	14
F4SK-3/11	0.75	1.0		83	80	76	71	65	57	46	33	20
F4SK-3/16	1.1	1.5		121	116	111	103	94	83	67	48	29
F4SK-3/22	1.5	2.2		166	160	153	142	129	114	92	66	40
F4SK-3/30	2.2	3.0		226	218	208	194	176	155	125	90	54
F4SK-3/38	3.0	4.0		287	276	264	246	223	196	159	115	69
F4SP-3/48	4.0	5.5		362	349	333	310	282	248	201	145	87
F4SP-3/62	5.5	7.5		468	451	430	401	364	320	259	187	112

PERFORMANCE CURVE & DATA

4"



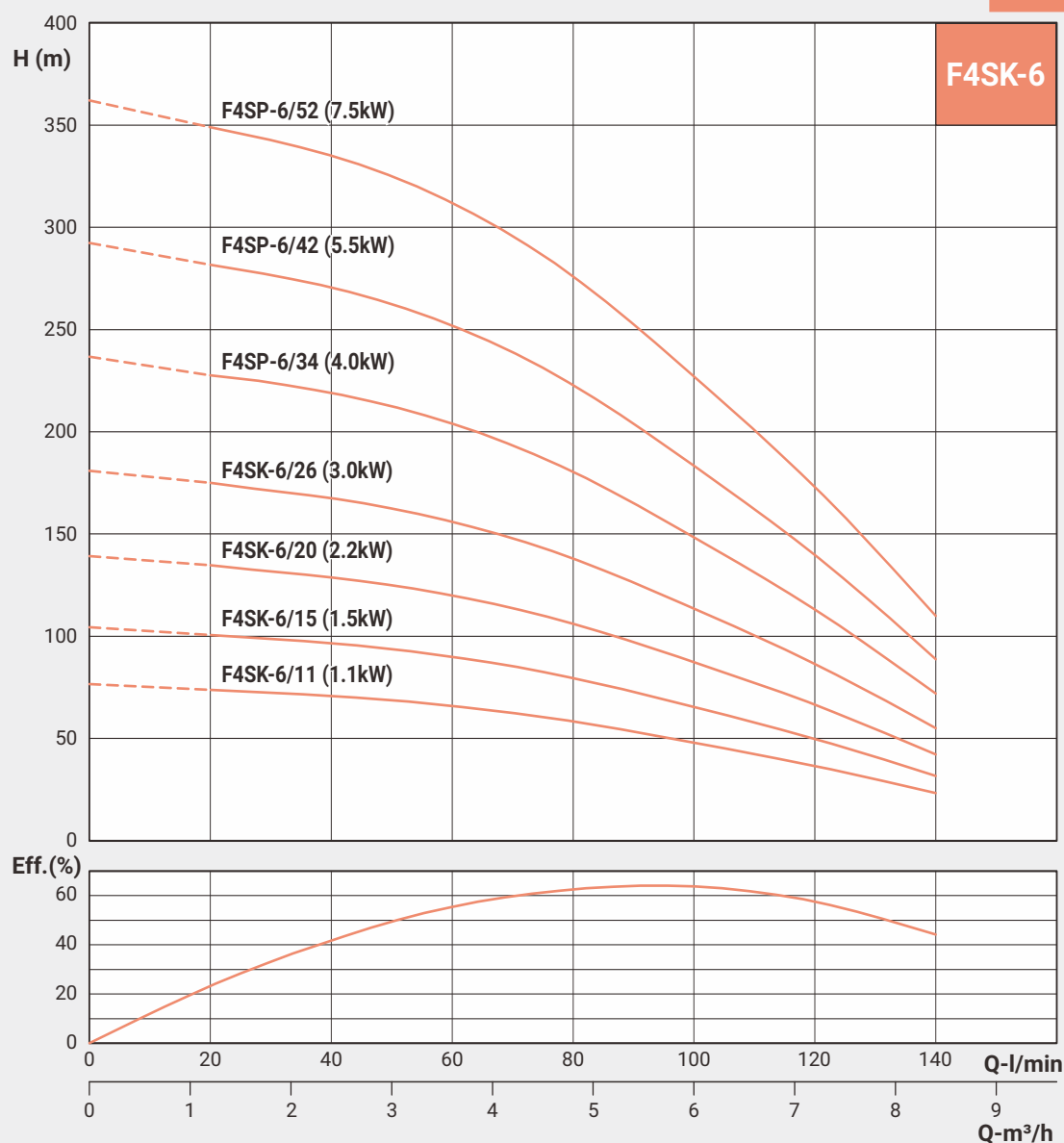
SPEED : 2850 rpm

OUTLET SIZE : 1 1/4" BSP

PUMP MODEL	POWER		m³/h l/min	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0
	kW	HP		0	10	20	30	40	50	60	70	80	90	100
F4SK-4/10	0.75	1.0	Head in Meters	71	68	66	63	60	55	50	42	32	21	11
F4SK-4/14	1.1	1.5		99	96	92	88	84	78	69	58	45	30	15
F4SK-4/18	1.5	2.0		127	123	118	114	108	100	89	75	58	39	19
F4SK-4/26	2.2	3.0		184	177	171	164	156	144	129	109	83	56	28
F4SK-4/34	3.0	4.0		241	232	223	214	203	189	168	142	109	73	36
F4SP-4/44	4.0	5.5		312	300	289	277	263	244	218	184	141	94	47
F4SP-4/54	5.5	7.5		382	368	354	341	323	300	267	226	173	116	57
F4SP-4/62	7.5	10		439	423	407	391	371	344	307	259	199	133	66

PERFORMANCE CURVE & DATA

4"



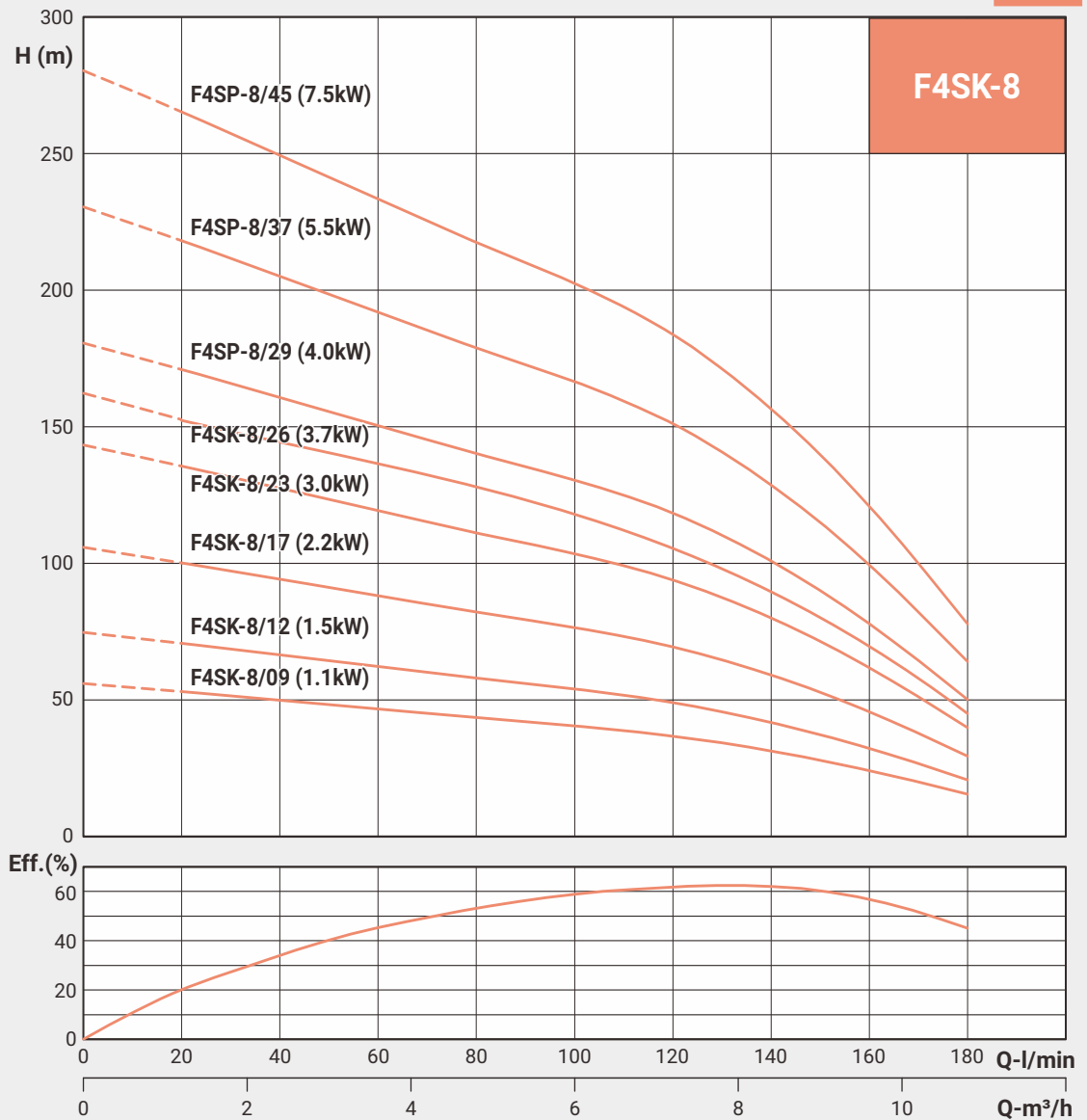
SPEED : 2850 rpm

OUTLET SIZE : 1½" BSP

PUMP MODEL	POWER		m³/h l/min	0	1.2	2.4	3.6	4.8	6	7.2	8.4
	kW	HP		0	20	40	60	80	100	120	140
F4SK-6/11	1.1	1.5	Head in Meters	77	74	71	66	58	48	37	23
F4SK-6/15	1.5	2.0		104	101	97	90	80	65	50	32
F4SK-6/20	2.2	3.0		139	134	129	120	106	87	67	42
F4SK-6/26	3.0	4.0		181	175	168	156	138	113	86	55
F4SP-6/34	4.0	5.5		237	228	219	204	180	148	113	72
F4SP-6/42	5.5	7.5		292	282	271	252	223	183	140	89
F4SP-6/52	7.5	10		362	349	335	312	276	227	173	110

PERFORMANCE CURVE & DATA

4"



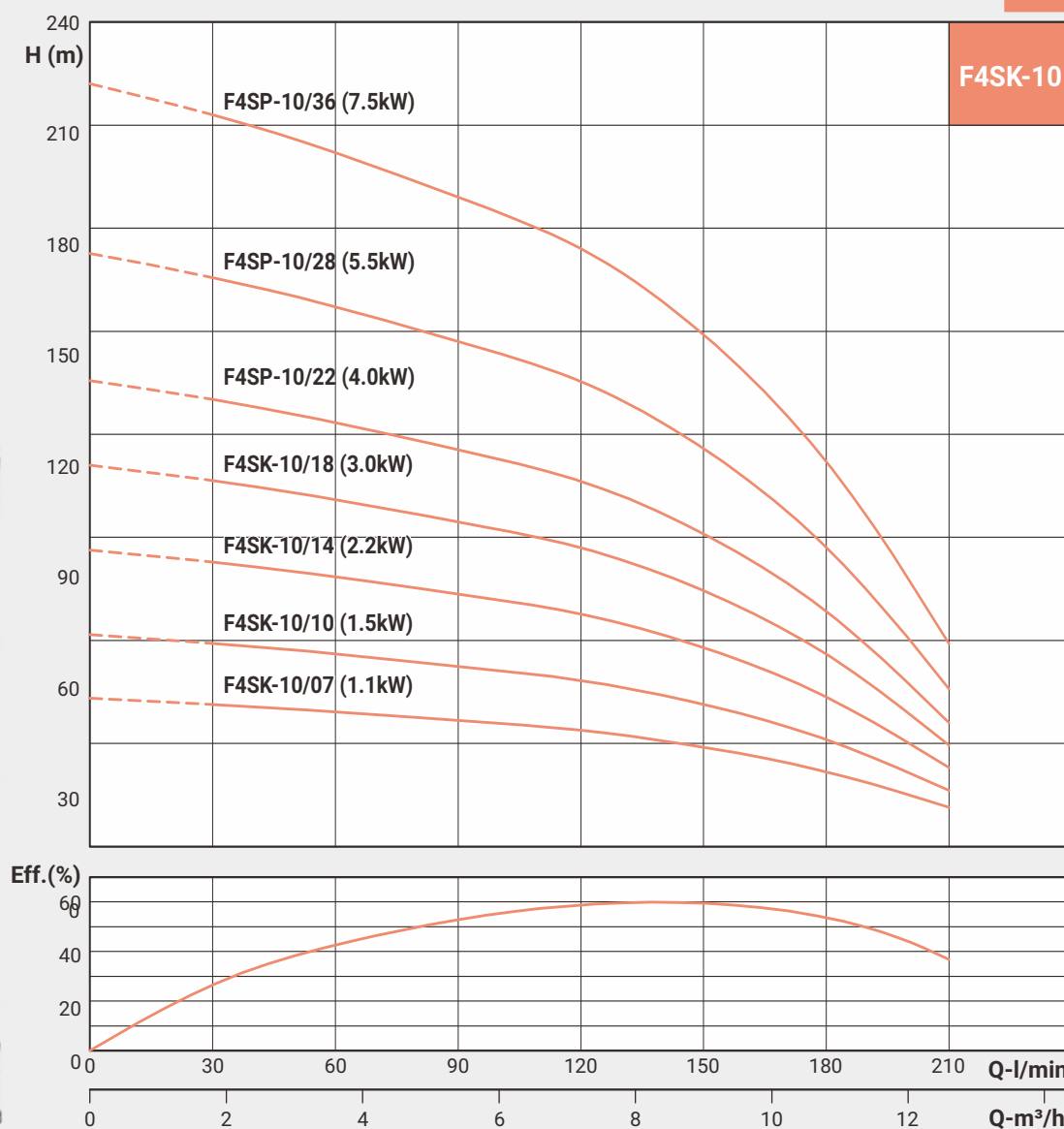
SPEED : 2850 rpm

OUTLET SIZE : 2" BSP

PUMP MODEL	POWER		m³/h l/min	0	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	10.8
	kW	HP		0	20	40	60	80	100	120	140	160	180
F4SK-8/09	1.1	1.5	Head in Meters	56	53	50	47	43	40	37	31	24	16
F4SK-8/12	1.5	2.0		75	71	66	62	58	54	49	42	32	21
F4SK-8/17	2.2	3.0		106	100	94	88	82	76	69	59	46	29
F4SK-8/23	3.0	4.0		143	136	127	119	111	103	94	80	62	40
F4SK-8/26	3.7	5.0		162	153	144	135	126	117	106	90	70	45
F4SP-8/29	4.0	5.5		181	171	161	150	140	130	118	101	78	50
F4SP-8/37	5.5	7.5		230	218	205	192	179	167	151	129	99	64
F4SP-8/45	7.5	10		280	265	249	233	218	203	184	157	121	78

PERFORMANCE CURVE & DATA

4"



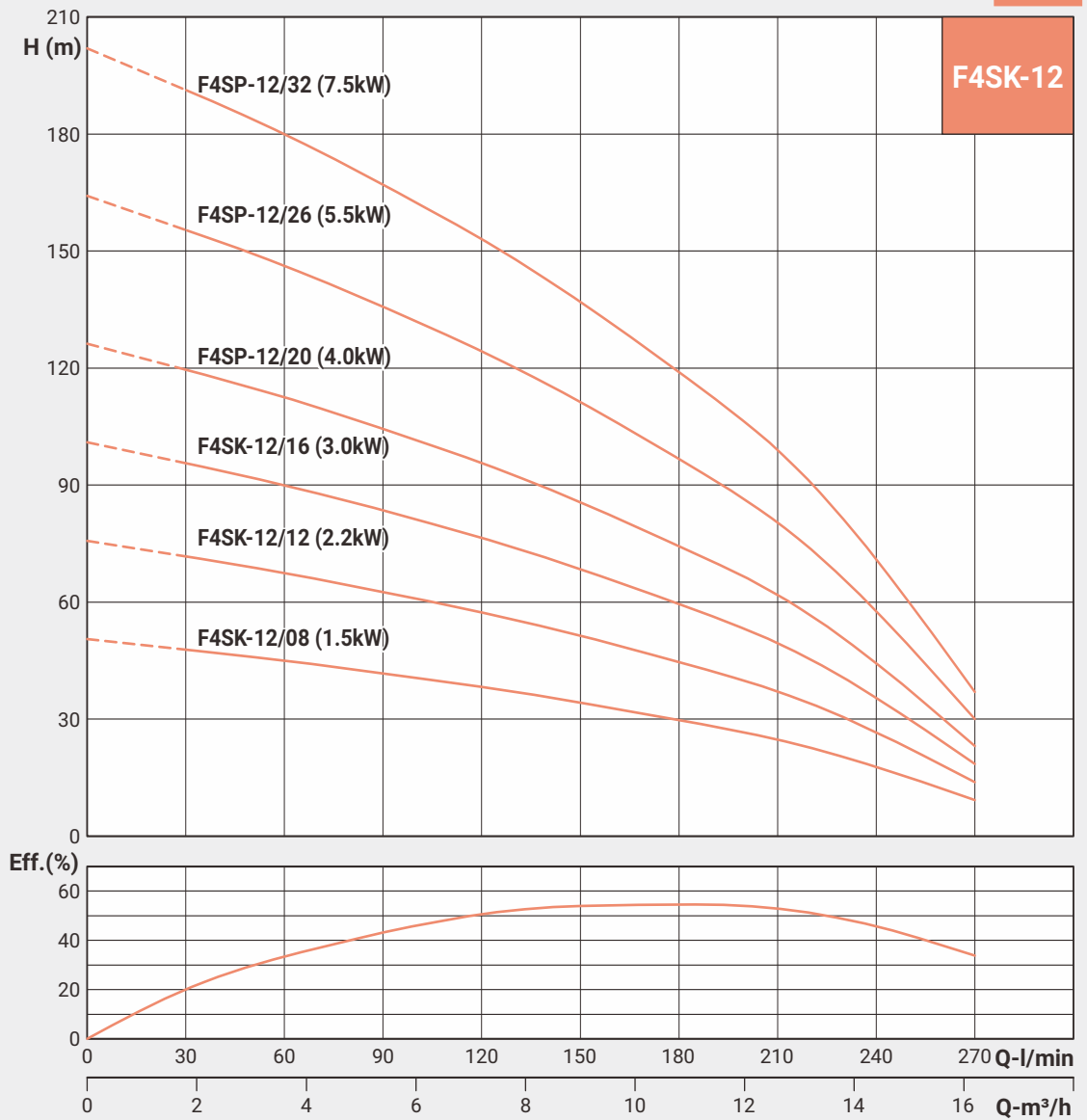
SPEED : 2850 rpm

OUTLET SIZE : 2" BSP

PUMP MODEL	POWER		m³/h l/min	0	1.8	3.6	5.4	7.2	9	10.8	12.6
	kW	HP		0	30	60	90	120	150	180	210
F4SK-10/07	1.1	1.5	Head in Meters	43	41	39	37	34	29	22	11
F4SK-10/10	1.5	2.0		62	59	56	52	48	41	31	16
F4SK-10/14	2.2	3.0		86	83	79	73	68	58	44	23
F4SK-10/18	3.0	4.0		111	106	101	94	87	74	56	29
F4SP-10/22	4.0	5.5		136	130	123	115	106	91	68	36
F4SP-10/28	5.5	7.5		173	166	157	147	135	116	87	46
F4SP-10/36	7.5	10		222	213	202	189	174	149	112	59

PERFORMANCE CURVE & DATA

4"



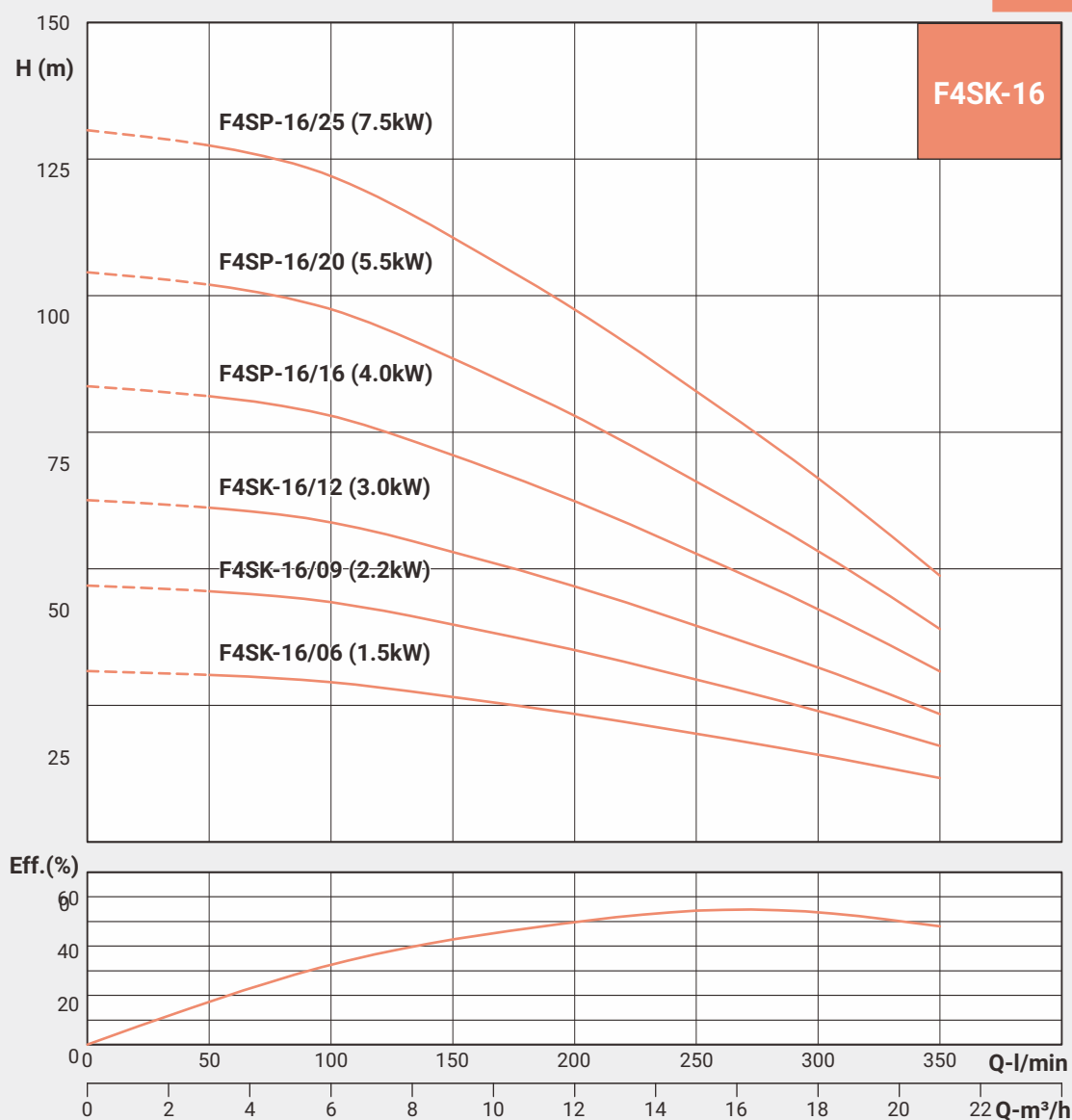
SPEED : 2850 rpm

OUTLET SIZE : 2" BSP

PUMP MODEL	POWER		m³/h l/min	0	1.8	3.6	5.4	7.2	9	10.8	12.6	14.4	16.2
	kW	HP		0	30	60	90	120	150	180	210	240	270
F4SK-12/08	1.5	2.0	Head in Meters	51	48	45	42	38	34	30	25	18	9
F4SK-12/12	2.2	3.0		76	72	68	63	57	51	45	37	27	14
F4SK-12/16	3.0	4.0		101	96	90	84	77	69	60	50	36	19
F4SP-12/20	4.0	5.5		126	120	113	104	96	86	74	62	44	23
F4SP-12/26	5.5	7.5		164	155	146	136	124	111	97	80	58	30
F4SP-12/32	7.5	10.0		202	191	180	167	153	137	119	99	71	37

PERFORMANCE CURVE & DATA

4"



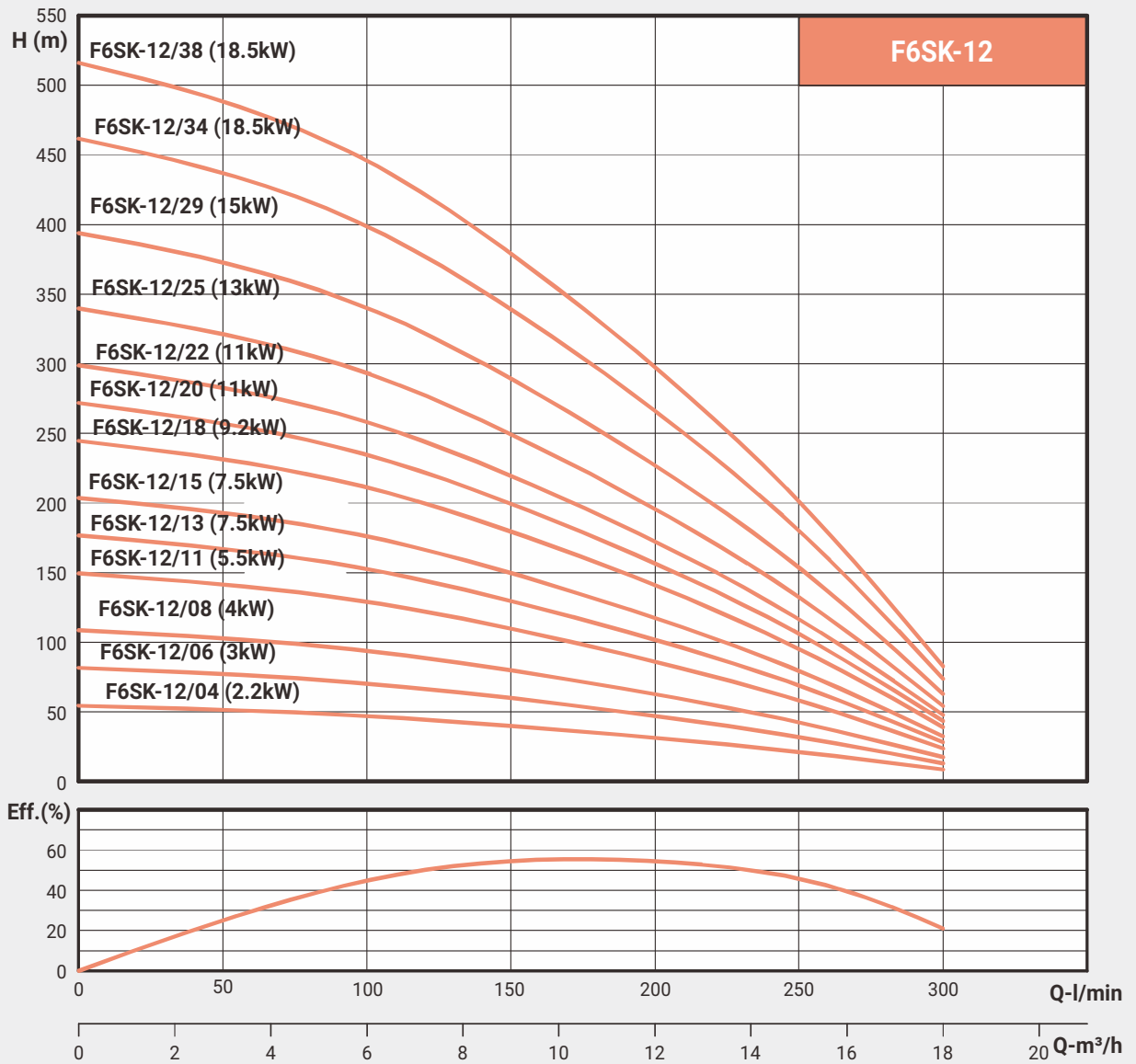
SPEED : 2850 rpm

OUTLET SIZE : 2" BSP

PUMP MODEL	POWER		m³/h l/min	0	3	6	9	12	15	18	21
	kW	HP		0	50	100	150	200	250	300	350
F4SK-16/06	1.5	2.0	Head in Meters	33	33	31	28	25	21	17	12
F4SK-16/09	2.2	3.0		50	49	47	42	37	32	26	19
F4SK-16/12	3.0	4.0		67	65	62	57	50	42	34	25
F4SP-16/16	4.0	5.5		89	87	83	76	67	56	45	33
F4SP-16/20	5.5	7.5		111	109	104	94	83	70	57	42
F4SP-16/25	7.5	10.0		139	136	130	118	104	88	71	52

PERFORMANCE CURVE & DATA

6"



SPEED : 2850 rpm

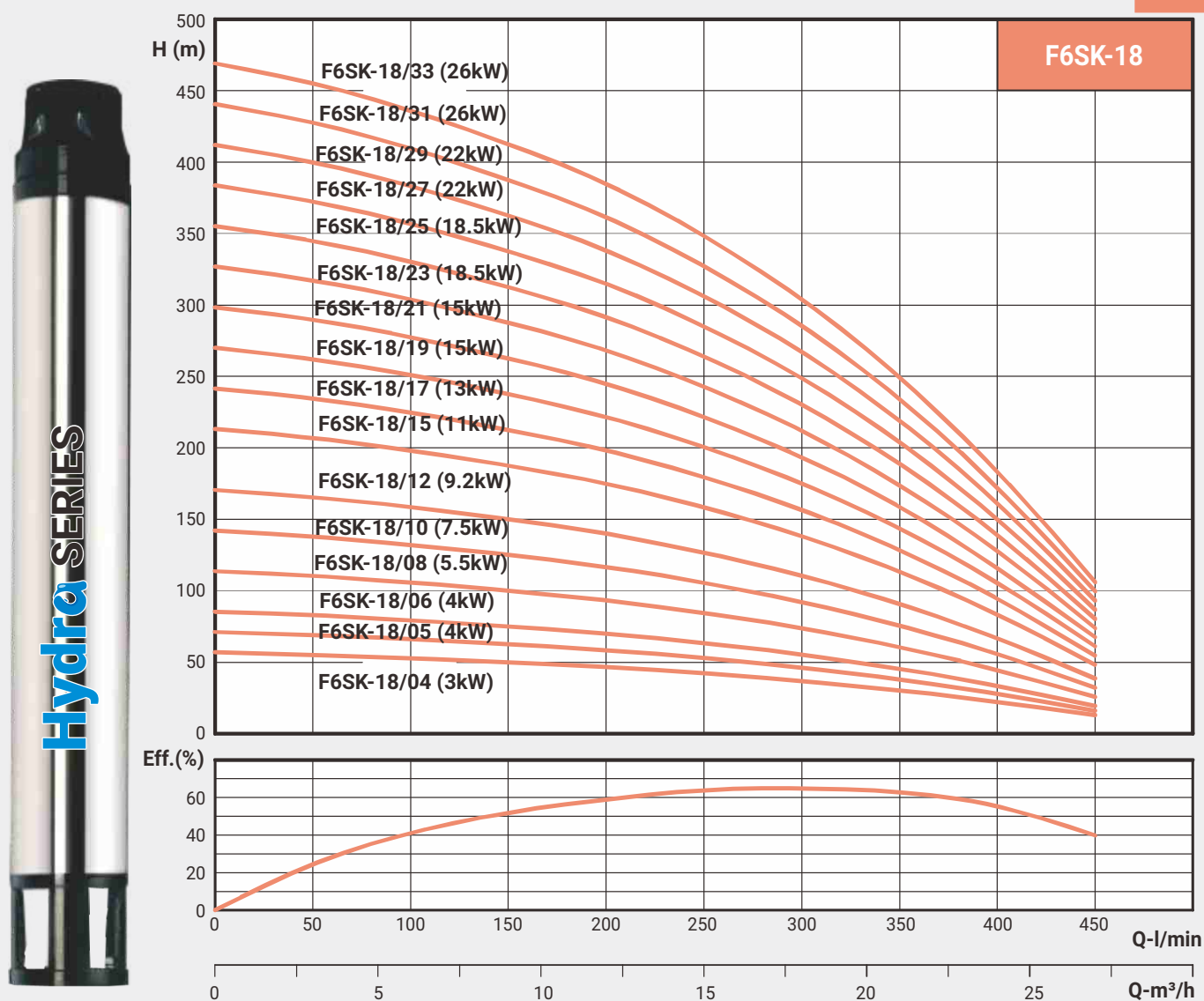
OUTLET SIZE : 2½" & 3" BSP

PUMP MODEL	POWER		m³/h l/min		0	3	6	9	12	15	18
	kW	HP			0	50	100	150	200	250	300
F6SK-12/04	2.2	3	Head in Meters		54	51	47	40	31	21	9
F6SK-12/06	3	4			82	77	70	60	47	32	13
F6SK-12/08	4	5.5			109	103	94	80	63	42	17
F6SK-12/11	5.5	7.5			149	141	129	110	86	58	24
F6SK-12/13	7.5	10			177	167	153	130	102	69	28
F6SK-12/15	7.5	10			204	193	176	150	117	79	33
F6SK-12/18	9.2	12.5			245	231	211	180	141	95	39
F6SK-12/20	11	15			272	257	235	200	157	106	43
F6SK-12/22	11	15			299	283	258	219	172	116	48
F6SK-12/25	13	17.5			340	321	293	249	196	132	54
F6SK-12/29	15	20			394	373	340	289	227	153	63
F6SK-12/34	18.5	25			462	437	399	339	266	180	74
F6SK-12/38	18.5	25			516	488	446	379	298	201	82

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PERFORMANCE CURVE & DATA

6"



SPEED : 2850 rpm

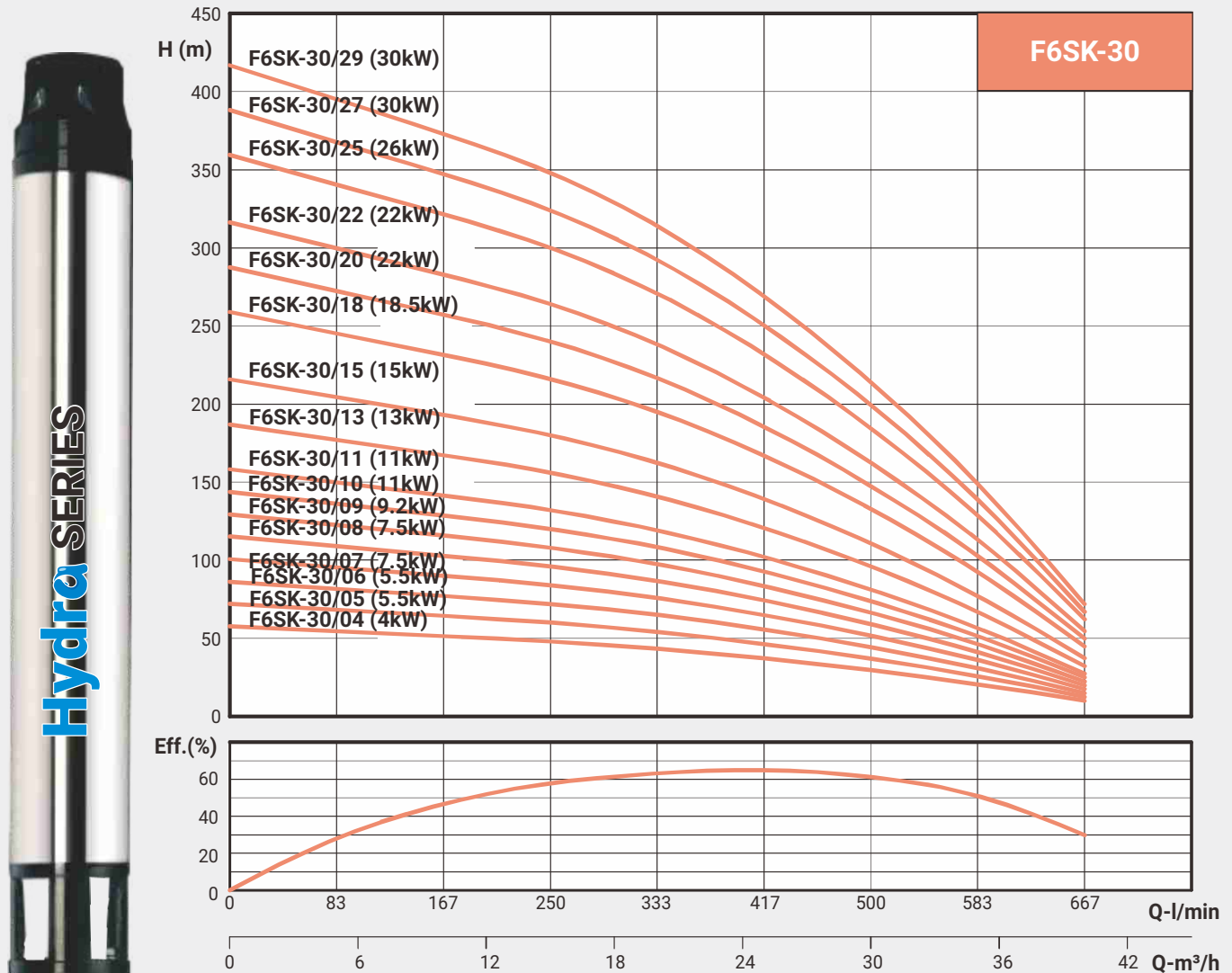
OUTLET SIZE : 2½" & 3" BSP

PUMP MODEL	POWER		m³/h	COEFF. SIZE: 1 1/2" & 3" BS									
				0	3	6	9	12	15	18	21	24	27
	kW	HP	l/min	0	50	100	150	200	250	300	350	400	450
F6SK-18/04	3	4	Head in Meters	57	55	53	50	47	42	37	30	22	13
F6SK-18/05	4	5.5		71	69	66	62	58	53	46	38	28	16
F6SK-18/06	4	5.5		85	83	79	75	70	63	55	45	33	19
F6SK-18/08	5.5	7.5		114	110	106	100	93	84	74	60	44	26
F6SK-18/10	7.5	10		142	138	132	125	117	106	92	76	56	32
F6SK-18/12	9.2	12.5		171	165	159	150	140	127	111	91	67	39
F6SK-18/15	11	15		213	207	198	188	175	158	138	113	83	48
F6SK-18/17	13	17.5		242	234	225	213	198	179	157	128	94	55
F6SK-18/19	15	20		270	262	251	237	222	201	175	144	105	61
F6SK-18/21	15	20		298	290	277	262	245	222	193	159	117	67
F6SK-18/23	18.5	25		327	317	304	287	268	243	212	174	128	74
F6SK-18/25	18.5	25		355	345	330	312	291	264	230	189	139	80
F6SK-18/27	22	30		384	372	357	337	315	285	249	204	150	87
F6SK-18/29	22	30		412	400	383	362	338	306	267	219	161	93
F6SK-18/31	26	35		441	427	410	387	361	327	286	234	172	100
F6SK-18/33	26	35		469	455	436	413	385	348	304	249	183	106

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PERFORMANCE CURVE & DATA

6"



SPEED : 2850 rpm

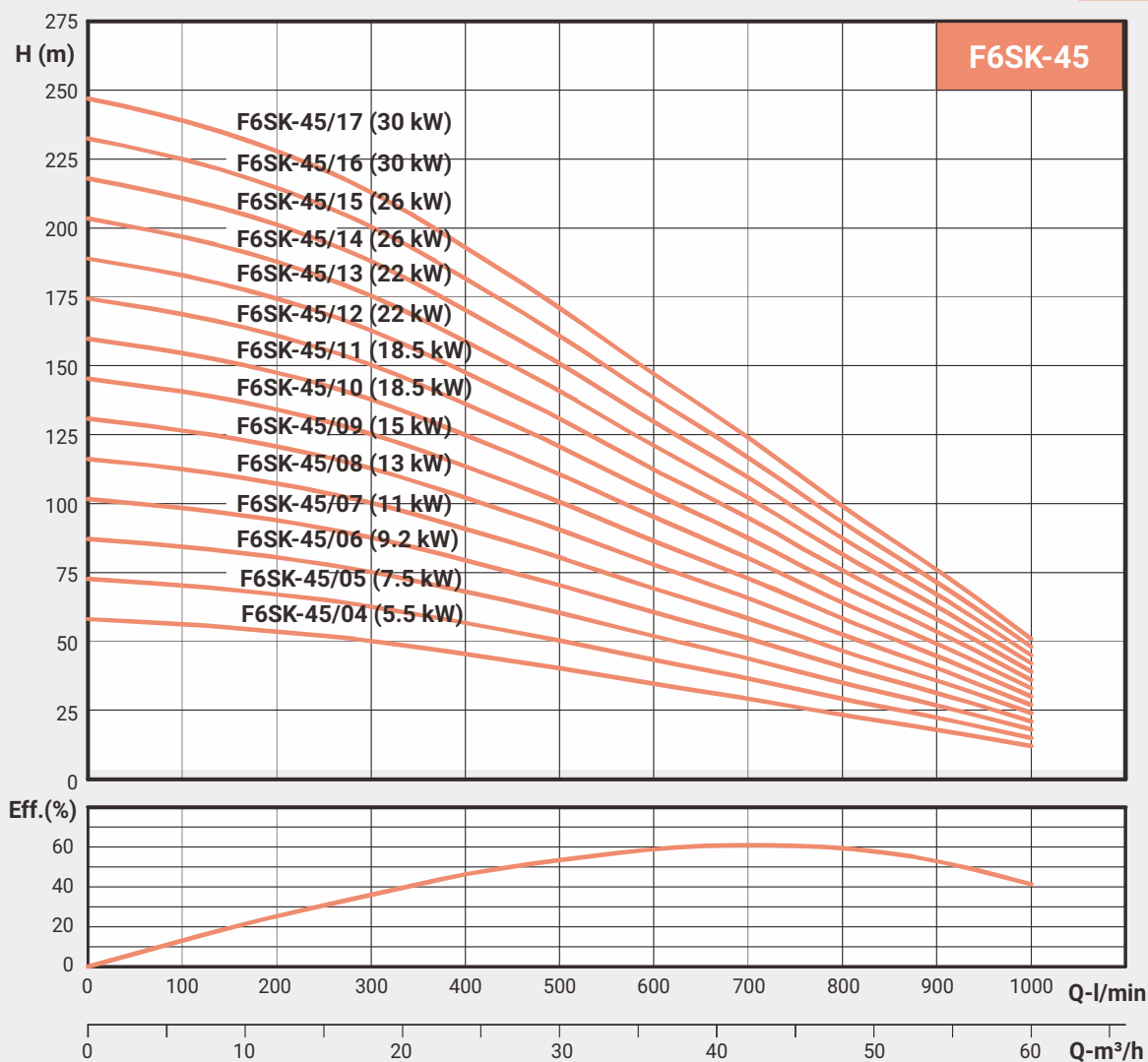
OUTLET SIZE : 2½" & 3" BSP

PUMP MODEL	POWER		m³/h	0	5	10	15	20	25	30	35	40
	kW	HP		l/min	83	167	250	333	417	500	583	667
F6SK-30/04	4	5.5	Head in Meters	58	54	51	48	43	37	30	21	10
F6SK-30/05	5.5	7.5		72	68	64	60	54	46	37	26	12
F6SK-30/06	5.5	7.5		86	82	77	72	65	56	44	31	15
F6SK-30/07	7.5	10		101	95	90	84	76	65	52	36	17
F6SK-30/08	7.5	10		115	109	103	96	87	74	59	41	20
F6SK-30/09	9.2	12.5		129	123	116	108	97	83	66	46	22
F6SK-30/10	11	15		144	136	129	120	108	93	74	51	25
F6SK-30/11	11	15		158	150	141	132	119	102	81	57	27
F6SK-30/13	13	17.5		187	177	167	156	141	121	96	67	32
F6SK-30/15	15	20		216	204	193	180	162	139	111	77	37
F6SK-30/18	18.5	25		259	245	232	216	195	167	133	92	45
F6SK-30/20	22	30		288	272	257	240	217	186	148	103	50
F6SK-30/22	22	30		316	300	283	264	238	204	162	113	55
F6SK-30/25	26	35		359	341	322	300	271	232	184	128	62
F6SK-30/27	30	40		388	368	347	324	292	250	199	139	67
F6SK-30/29	30	40		417	395	373	348	316	269	214	149	72

In view of continuous development, the informations / descriptions / specification / illustration are subjected to change without notice.

PERFORMANCE CURVE & DATA

6"



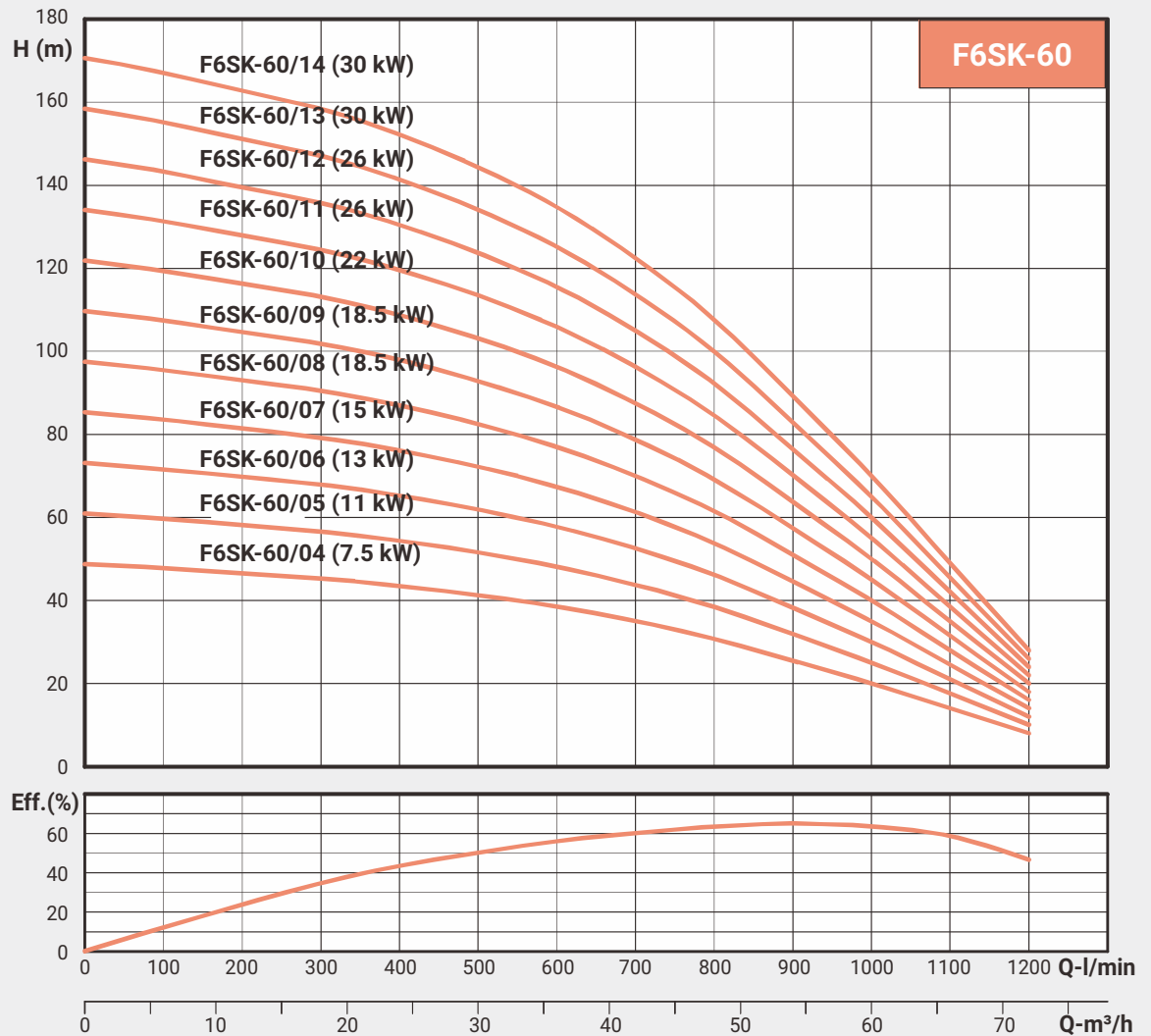
SPEED : 2850 rpm

OUTLET SIZE : 2½" & 3" BSP

PUMP MODEL	POWER		m³/h	0	6	12	18	24	30	36	42	48	54	60
	kW	HP		0	100	200	300	400	500	600	700	800	900	1000
F6SK-45/04	5.5	7.5	Head in Meters	58	56	54	50	45	40	35	29	23	18	12
F6SK-45/05	7.5	10		73	70	67	63	57	50	43	36	29	22	15
F6SK-45/06	9.2	12.5		87	84	80	75	68	60	52	44	35	27	18
F6SK-45/07	11	15		102	98	94	88	79	70	61	51	41	31	21
F6SK-45/08	13	17.5		116	112	107	100	91	90	69	58	47	36	24
F6SK-45/09	15	20		131	127	121	113	102	91	78	66	52	40	27
F6SK-45/10	18.5	25		145	141	134	125	114	101	86	73	58	45	30
F6SK-45/11	18.5	25		160	155	148	138	125	111	95	80	64	49	33
F6SK-45/12	22	30		174	169	161	150	136	121	104	88	70	54	36
F6SK-45/13	22	30		189	183	174	163	148	131	112	95	76	58	39
F6SK-45/14	26	35		203	197	188	175	159	141	121	102	82	63	42
F6SK-45/15	26	35		218	211	201	188	170	151	130	109	87	67	45
F6SK-45/16	30	40		232	225	215	200	182	161	138	117	93	72	48
F6SK-45/17	30	40		247	239	228	213	193	171	147	124	99	76	51

PERFORMANCE CURVE & DATA

6"



SPEED : 2850 rpm

OUTLET SIZE : 2½" & 3" BSP

PUMP MODEL	POWER		m³/h	OUTLET SIZE : 2½" & 3" BSP													
	kW	HP		0	6	12	18	24	30	36	42	48	54	60	66	72	
				0	100	200	300	400	500	600	700	800	900	1000	1100	1200	
F6SK-60/04	7.5	10	Head in Meters	49	48	47	45	44	41	39	35	31	26	20	14	8	
F6SK-60/05	11	15		61	60	58	57	54	52	48	44	38	32	25	18	10	
F6SK-60/06	13	17.5		73	72	70	68	65	62	58	53	46	38	30	21	12	
F6SK-60/07	15	20		85	84	81	79	76	72	67	61	54	45	35	25	14	
F6SK-60/08	18.5	25		98	96	93	91	87	83	77	70	62	51	40	28	16	
F6SK-60/09	18.5	25		110	107	105	102	98	93	87	79	69	57	45	32	18	
F6SK-60/10	22	30		122	119	116	113	109	103	96	88	77	64	50	35	20	
F6SK-60/11	26	35		134	131	128	124	120	113	106	96	85	70	55	38	22	
F6SK-60/12	26	35		146	143	140	136	131	124	116	105	92	76	60	42	24	
F6SK-60/13	30	40		158	155	151	147	141	134	125	114	100	83	65	46	26	
F6SK-60/14	30	40		171	167	163	158	152	144	135	123	108	89	70	49	28	

OIL FILLED SUBMERSIBLE MOTORS

'O' SERIES

Oil filled submersible motors are energy-efficient, durable, low maintenance, quiet, versatile, easy to install and reliable. The oil in the motor provides lubrication for the bearings, reducing wear and tear, resulting in a longer lifespan. This makes them an ideal choice for applications where durability and longevity are important. Ball and angular contact bearings are used to handle radial and axial thrust loads. The oil in the motor also provides cooling to the motor, which helps to prevent overheating.

Motor sealing is done by 'O' rings, oil seal and mechanical seal. Pressure equalizing rubber diaphragm is provided to balance the pressure and volume variation due to thermal expansion of oil in the motor. Oil-filled submersible motors are often preferred in light duty applications where the installation depth is less than 150 meters.

Design Features

- High efficiency
- Corrosion resistant stainless-steel parts
- Extremely hardwearing ball and angular contact bearings
- Rewindable motor
- Cable connected directly to the winding for better sealing & reliability

Applications

- These submersible motors are suitable for use with deepwell submersible pump ends.
- Ground water supply to residences and commercial buildings
 - Agriculture
 - Pressure boosting system
 - Fountains
 - Gardens
 - Landscaping
 - Livestock watering

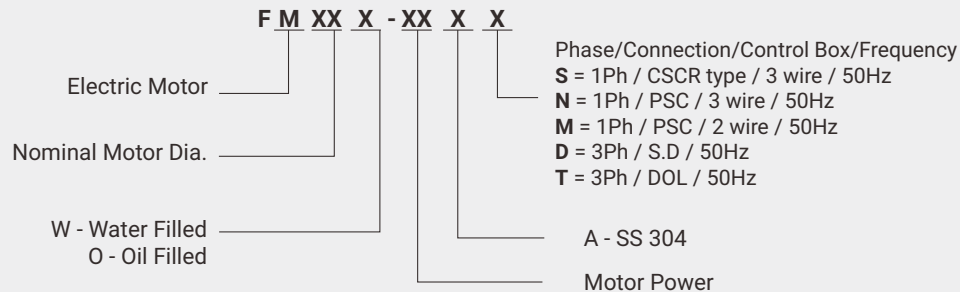
Technical Specifications

Nominal Dia	3" & 4"
Maximum Outer Diameter	75 mm & 97 mm
Power Range	0.18 - 2.2 kW - Single Phase
	0.18 - 7.5 kW - Three Phase
Speed	2850 rpm
Version	Single Phase - 220 - 240V, 50Hz, A.C Supply
	Three Phase - 380-415V, 50Hz, A.C Supply
Class of Insulation	B
Degree of Protection	IP68
Direction of Rotation	CCW - When viewed from driving end - Single Phase
	Electrically Reversible - Three Phase
Type of Duty	S1 (Continuous)
Down Thrust Load	0.37 - 0.75 kW - 1500 N
	1.1 - 4.0 kW - 2500 N
	5.5 - 7.5 kW - 4500 N
Minimum Cooling Flow Along the Motor	0.15 m/sec
Maximum Liquid Temperature	40°C
Maximum Immersion Depth	150 m
Max. Starts per Hour	20 Times
Shaft End	Splines
Mounting Standard	4" NEMA
Method of Starting	Single Phase - Permanent Split Capacitor (PSC)
	Three Phase - Direct On Line (DOL)
Cable Lead out	3+1 PVC Flat cable



OIL FILLED SUBMERSIBLE MOTORS

MODEL IDENTIFICATION OF SUBMERSIBLE PUMPS



MODEL IDENTIFICATION OF SMART MODEL CONTROL BOX

FCP	Plastic Enclosure	FCP	Plastic Enclosure
-	-	-	-
5	50Hz	5	50Hz
O	for Oil Filled Motor	O	for Oil filled Motor
E	220 - 240V	E	220 - 240V
-	-	-	-
07	0.75kW	07	0.75kW
M3	Smart Control Box for 3" Motor	M4	Smart Control Box for 4" Motor



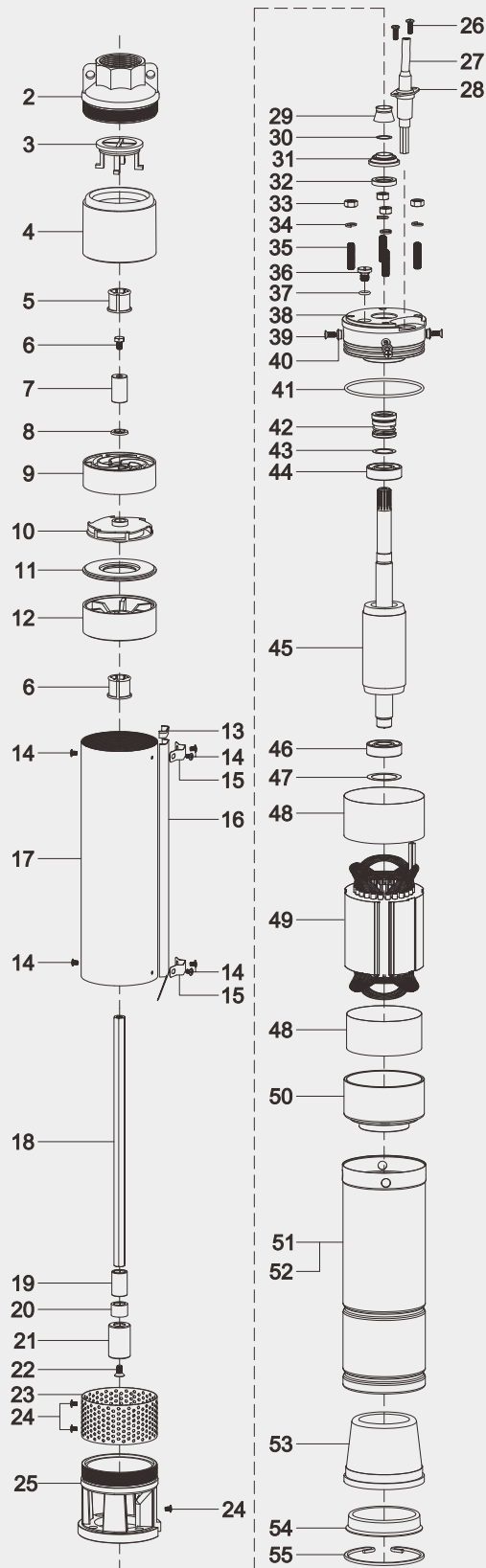
Technical Datas : 4" Submersible Motor - PSC, 1Phase, 220-240V, 50Hz, 2850rpm

MODEL	POWER		RATED CURRENT	POWER FACTOR (COSØ)	EFFICIENCY	RUN CAPACITOR
	kW	HP				
FM40-02AN	0.25	0.33	2.5 A	0.93	55%	20 µF
FM40-03AN	0.37	0.5	3.6 A	0.93	57%	25 µF
FM40-05AN	0.55	0.75	4.8 A	0.93	60%	35 µF
FM40-07AN	0.75	1.0	6.2 A	0.93	63%	40 µF
FM40-11AN	1.1	1.5	8.5 A	0.93	66%	50 µF
FM40-15AN	1.5	2.0	10.8 A	0.93	68%	55 µF
FM40-22AN	2.2	3.0	15.5 A	0.93	69%	60 µF

Technical Datas : 4" Submersible Motor - DOL, 3Phase, 380-415V, 50Hz, 2850rpm

MODEL	POWER		RATED CURRENT	POWER FACTOR (COSØ)	EFFICIENCY
	kW	HP			
FM40-02AT	0.25	0.33	1.2 A	0.7	55%
FM40-03AT	0.37	0.5	1.4 A	0.72	58%
FM40-05AT	0.55	0.75	2.0 A	0.74	61%
FM40-07AT	0.75	1.0	2.5 A	0.75	64%
FM40-11AT	1.1	1.5	3.3 A	0.76	67%
FM40-15AT	1.5	2.0	4.3 A	0.77	69%
FM40-22AT	2.2	3.0	6.0 A	0.78	71%
FM40-30AT	3.0	4.0	8.0 A	0.79	72%
FM40-40AT	4.0	5.5	10.4 A	0.79	74%
FM40-55AT	5.5	7.5	13.9 A	0.80	75%
FM40-75AT	7.5	10.0	17.5 A	0.80	76%

EXPLODED VIEW



Part No.	Part Name
2	Pump Outlet
3	Non Return Valve
4	Non Return Valve Seat
5	Rubber bearing bush
6	Lock Screw
7	Upper bearing sleeve
8	Washer
9	Diffuser
10	Impeller
11	Diffuser top plate
12	Bearing bracket
13	Cable shield Rubber
14	Screw
15	Cable Guard Clamp
16	Cable
17	Pump shell
18	Pump shaft
19	Bottom Bearing Sleeve
20	Spacer Sleeve
21	Coupling
22	Coupling screw
23	Strainer
24	Screw
25	Pump Inlet
26	Cable screw
27	Motor cable Lead
28	Cable clamp
29	Sand Guard Rubber
30	Sand Guard Washer
31	Sand Guard Plastic
32	Oil seal
33	Nut
34	Spring Washer
35	Allen Stud
36	Oil Filling Plug
37	'O' ring
38	Upper Housing
39	Side screw
40	Side Collar Bush
41	'O' ring
42	Mechanical seal
43	Mechanical seal washer
44	Top bearing
45	Rotor with shaft
46	Bottom bearing
47	Bearing washer
48	Winding Guard
49	Stator
50	Lower Housing
51	Motor Shell
52	Oil
53	Rubber Diaphragm
54	Base Plate
55	Snap Ring



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