



SMC6

TECHNICAL DATA

Flow rate maximum: up to 84 m³/h

Head up to: 458 m

Maximum immersion depth: depending on the motor

Type of pumped liquid: clean, free from solid or abrasive substances, non-viscous, non-aggressive, non-crystallized and chemically neutral

Maximum sand quantity: 80 g/m³

Liquid temperature range: from 0°C to + 30°C

Maximum operating pressure: depending on the motor

Flanges, thread: 2" 1/2 and 3" GAS

Pump maximum diameter: 153 mm

Impeller/s material: pressed AISI 304 stainless steel

Protection class: IP 68

Single phase power input: not available

Three phase power input: 3x230 V 50 Hz / 3x400 V 50 Hz

Power cable (m) and plug: depending on the motor (all the motor are without the power plug)

Possible type of installation: fixed in vertical position. Horizontal installation permitted by removing the non-return valve and installing a cooling jacket (check the applicability of the motor for horizontal use in the dedicated section)

6" multi-impeller semi-axial submersible pump with cast iron stage bodies treated with anti-corrosion cataphoresis paint coating and microcast impellers; pump designed for pressurization, drawing water from the subsoil in civil and commercial applications and for irrigation, also for the agricultural sector. Ideal for installation in wells. The pump is comply to DM174.

CONSTRUCTION FEATURES OF THE PUMP

Cast iron pump body treated with cataphoresis paint coating and dynamically balanced impellers in microcast AISI 304 stainless steel coupled on the shaft with pull tab. Shaft guided with coaxial bush bearings and fully protected with bushes. Integrated check valve for localised head loss reduction. Integrated non-return valve to reduce localized pressure drops. Stainless steel filter applied to the suction mouth to prevent the entry of dissolved solid bodies. Delivery port threaded according to the GAS standard. Different types of impeller are available to guarantee the best efficiency at different flow rates and models up to 28 impellers to cover a wide range of heads.

CONSTRUCTION FEATURES OF THE MOTOR

Coupling with 4" or 6" motors depending on the power required by the hydraulic system:

- 4GG: 4" submersible encapsulated motor
- 4OL: 4" submersible oil-bath motor
- 6GF: 6" submersible encapsulated motor
- TR6: 6" submersible rewindable motor

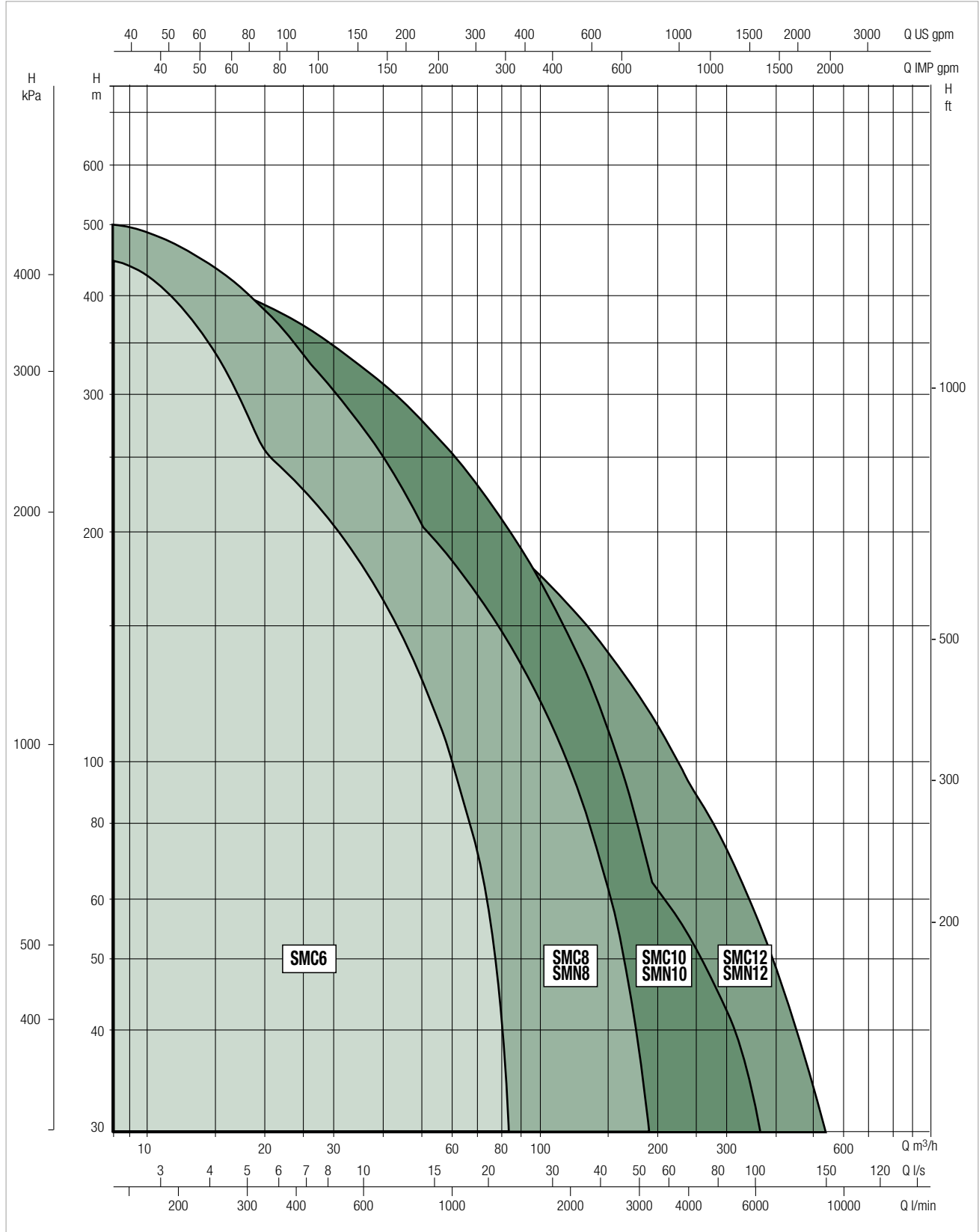
For operation with the variable frequency drive, refer to the specifications of the coupled motor.

PERFORMANCE RANGE

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

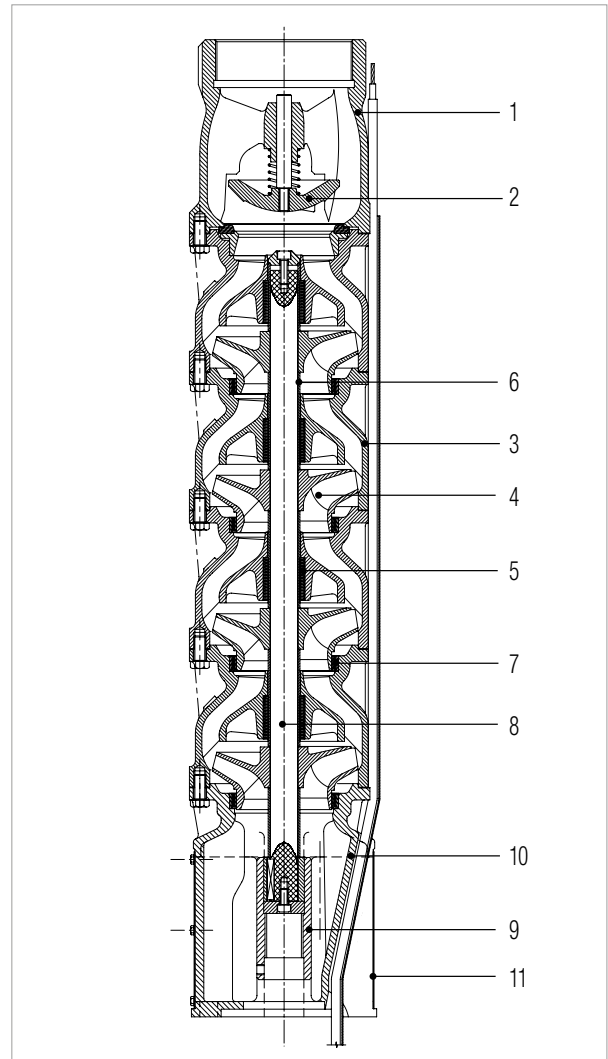
GRAPHIC SELECTION TABLE

50 Hz - 2900 r.p.m.

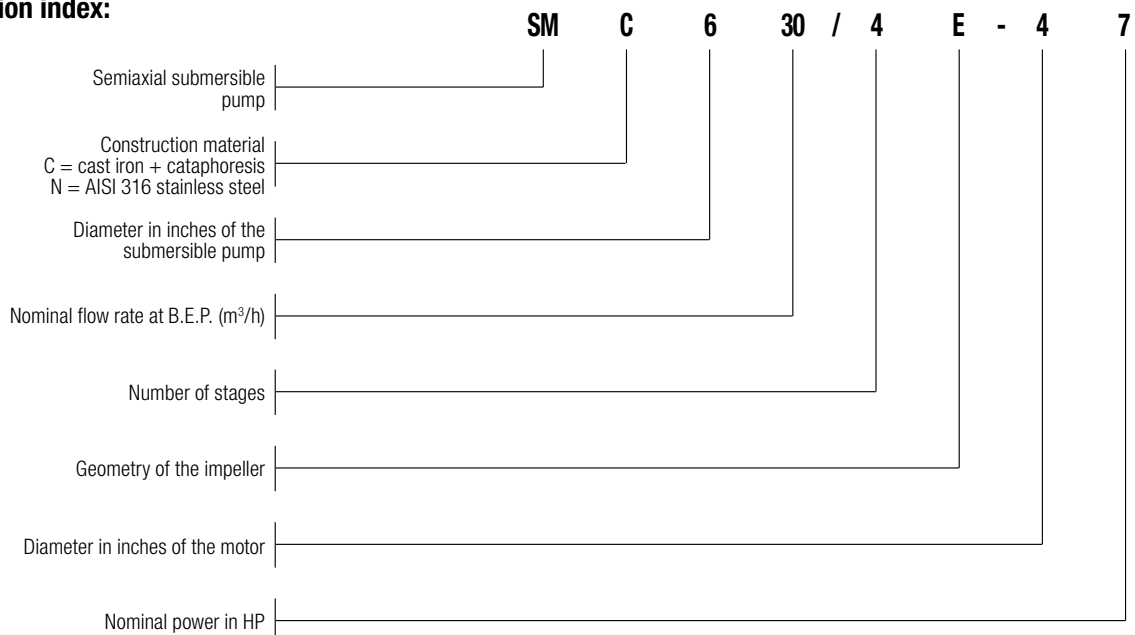


MATERIALS

N.	PARTS	MATERIALS
1	DELIVERY BODY	CAST IRON + CATAPHORESIS
2	NON-RETURN VALVE	STAINLESS STEEL
3	DIFFUSER	CAST IRON + CATAPHORESIS
4	IMPELLER	AISI 304 STAINLESS STEEL
5	GUIDE BEARING	RUBBER
6	BUSH	CHROME-PLATED BRASS
7	WEAR RING	RUBBER FOR SMC6 30
	WEAR RING	STEEL FOR SMC6 45 AND SMC6 60
8	PUMP SHAFT	STAINLESS STEEL
9	PIPE	STAINLESS STEEL
10	SUCTION BODY	CAST IRON + CATAPHORESIS
11	FILTER GRID	STAINLESS STEEL



- Denomination index:
(example)



SMC6 30

SUBMERSIBLE PUMPS

PERFORMANCE 50 HZ - 2 POLES

MODEL	ELECTRICAL DATA		HYDRAULIC DATA													STANDARD MOTOR COUPLING
	P2 NOMINAL		Q=m ³ h	0	9	12	15	18	21	24	27	30	33	36	42	
	kW	HP	Q=l/min	0	150	200	250	300	350	400	450	500	550	600	700	
30/4E	5,5	7,5	H (m)	66	61,5	60	58	56,5	54	51,5	48,5	44,5	40	34,5	22	4"
30/5E	7,5	10		83,5	77	75	73	71	68,5	65	61,5	56,5	50,5	44	28,5	6"
30/7G	9,3	12,5		114,5	105,5	103	100	96,5	92,5	88	82	74,5	66	56	32	6"
30/8E	11	15		134,5	124	120,5	117,5	114,5	110,5	105,5	99	91	81,5	71	46	6"
30/10F	13	17,5		162	150,5	147	142,5	137,5	132	125,5	117,5	107,5	95,5	82,5	50	6"
30/11E	15	20		183,5	169	164,5	160	155,5	150	143	134	123	110,5	96	61,5	6"
30/12E	18,5	25		201	185	180	175,5	170	164	156	146	134,5	120,5	105	68	6"
30/14E	18,5	25		233	216	210	204	198	191	182	170	156,5	140,5	122	78,5	6"
30/15E	22	30		249	232	226	220	213	205	195	182,5	168,5	152	132	85	6"
30/17F	22	30		276	257	250	243	234	224	213	199	182,5	163,5	141,5	87,5	6"
30/20F	26	35		326	304	296	287	277	265	251	235	216	193	167,5	103	6"
30/22E	30	40		364	339	330	320	310	297	282	265	245	221	194	126	6"
30/25F	37	50		409	381	371	360	347	333	315	295	271	243	211	130	6"
30/28F	37	50		458	427	416	403	389	373	353	330	304	272	236	146	6"

ELECTRICAL DATA AND DIMENSIONS

MODEL	MOTOR *	ELECTRICAL DATA			OPERATING BY INVERTER	HORIZONTAL INSTALLATION	L2 mm	L mm	L1 mm	D mm	D1 mm	DN GAS	HYDRAULIC WEIGHT kg	MOTOR WEIGHT kg
		P2 NOMINAL		In A										
		kW	HP											
30/4E-47	4GG	5,5	7,5	14	●	●	1318	684	634	93	150	2 ½"	28	27
	40L	5,5	7,5	13,1	●	●	1292	658	634	93	150	2 ½"	28	24
30/5E-610	6GF	7,5	10	18	●	●	1371	661	710	141	150	2 ½"	33	47
	TR6	7,5	10	18	○	●	1527	817	710	144	150	2 ½"	33	53
30/7G-612	6GF	9,3	12,5	22	●	●	1561	686	875	141	150	2 ½"	42	50
	TR6	9,3	12,5	21	○	●	1722	847	875	144	150	2 ½"	42	55
30/8E-615	6GF	11	15	25,5	●	●	1689	731	958	141	150	2 ½"	46	55
	TR6	11	15	25	○	●	1835	877	958	144	150	2 ½"	46	60
30/10F-617	6GF	13	17,5	28,7	●	●	1884	761	1123	141	150	2 ½"	55	58
	TR6	13	17,5	29	○	●	2030	907	1123	144	150	2 ½"	55	63
30/11E-620	6GF	15	20	33,4	●	●	1991	786	1205	141	150	2 ½"	60	61
	TR6	15	20	32	○	●	2182	977	1205	144	150	2 ½"	60	77
30/12E-625	6GF	18,5	25	41	●	●	2149	861	1288	141	150	2 ½"	65	69
	TR6	18,5	25	39	○	●	2325	1037	1288	144	150	2 ½"	65	83
30/14E-625	6GF	18,5	25	41	●	●	2314	861	1453	141	150	2 ½"	74	69
	TR6	18,5	25	39	○	●	2490	1037	1453	144	150	2 ½"	74	83
30/15E-630	6GF	22	30	47	●	●	2456	921	1535	141	150	2 ½"	78	74
	TR6	22	30	49	○	●	2602	1067	1535	144	150	2 ½"	78	95
30/17F-630	6GF	22	30	47	●	●	2621	921	1700	141	150	2 ½"	88	74
	TR6	22	30	49	○	●	2767	1067	1700	144	150	2 ½"	88	95
30/20F-635	6GF	26	35	57	●	●	2928	980	1948	141	153	2 ½"	101	78
	TR6	26	35	58	○	●	3085	1137	1948	144	153	2 ½"	101	103
30/22E-640	6GF	30	40	61,5	●	●	3164	1051	2113	141	153	2 ½"	110	89
	TR6	30	40	65	○	●	3305	1192	2113	144	153	2 ½"	110	110
30/25F-650	6GF	37	50	79,3	●	●	3541	1181	2360	141	153	2 ½"	124	102
	TR6	37	50	80	○	●	3652	1292	2360	144	153	2 ½"	124	113
30/28F-650	6GF	37	50	79,3	●	●	3789	1181	2608	141	153	2 ½"	138	102
	TR6	37	50	80	○	●	3900	1292	2608	144	153	2 ½"	138	113

* **4GG motor:** 4" water-filled motor with stator immersed in thermosetting insulating resin with high heat dissipation capacity

40L motor: 4" oil-filled rewindable motor

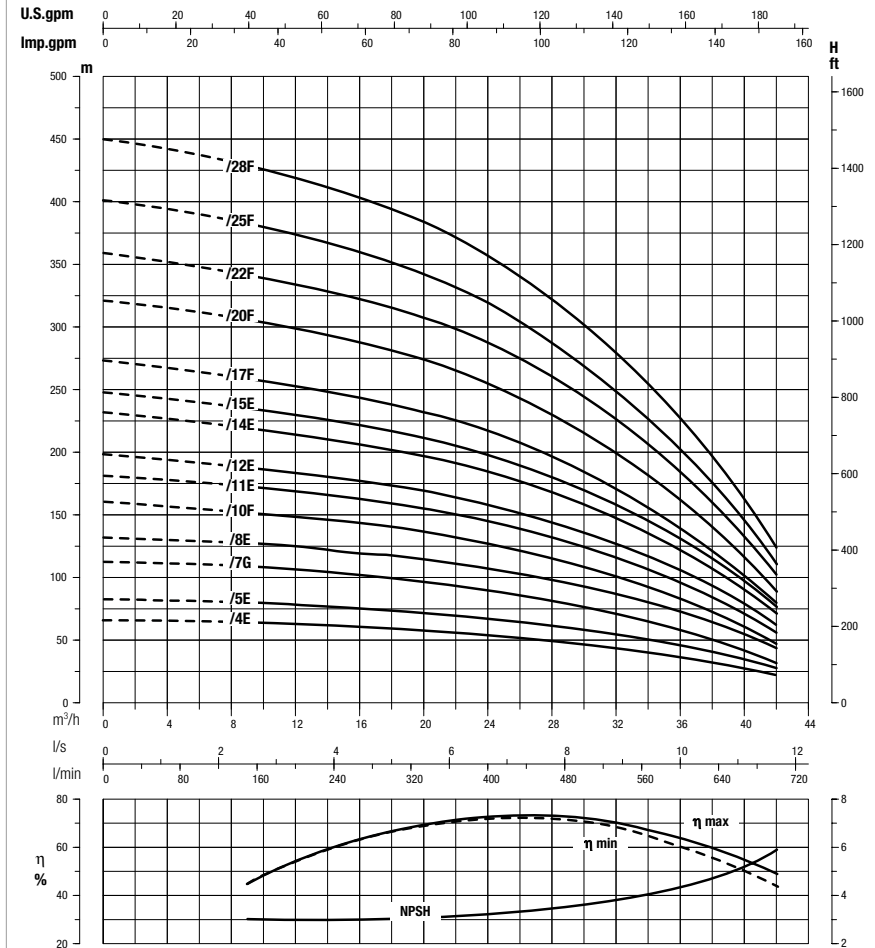
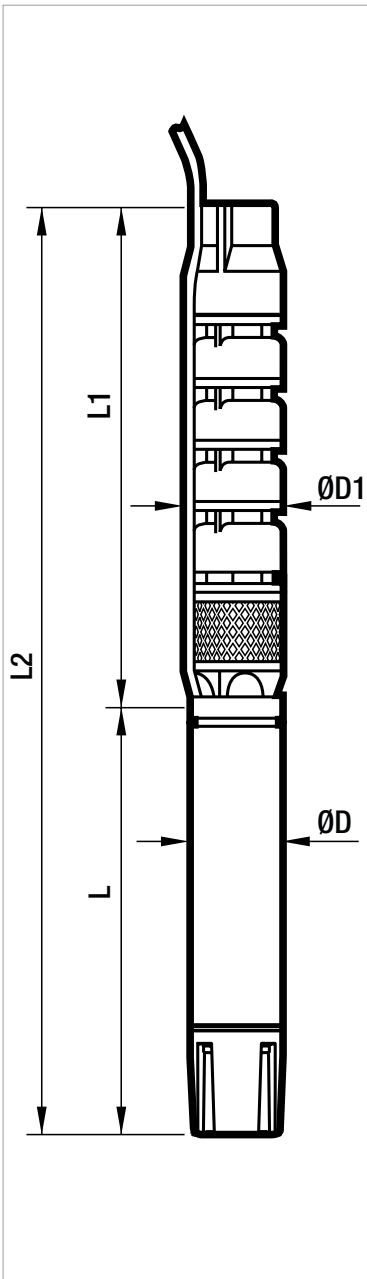
6GF motor: 6" encapsulated water-glycol-filled motor with stator immersed in thermosetting insulating resin

TR motor: 6" - 12" water-filled rewindable motor

●	Permitted
○	Only version PE2 + PA
△	Contact our sales network

SMC6 30

SUBMERSIBLE PUMPS



Performance at 50 Hz 2 poles. The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906. **Compliance with MEI**

PERFORMANCE 50 HZ - 2 POLES

MODEL	ELECTRICAL DATA		HYDRAULIC DATA													STANDARD MOTOR COUPLING
	P2 NOMINAL		Q=m3h	0	12	18	24	30	36	42	45	48	54	60	66	
	kW	HP	Q=l/min	0	200	300	400	500	600	700	750	800	900	1000	1100	
45/3H	4	5,5	H (m)	39	35,5	33,5	32	30,5	28,5	26	24,5	23	18,5	14	9	4"
45/4H	5,5	7,5		52	47,5	45	43	41	38,5	35	33	30,5	25,5	19	13	4"
45/5G	7,5	10		70	64	61,5	59,5	57	54	49,5	47	44	37,5	29,5	20	6"
45/6F	9,3	12,5		85,5	78,5	75	72,5	69,5	66	60,5	57,5	53,5	45	35	24,5	6"
45/7E	11	15		101	95,5	92	89	85	80	72,5	68,5	64	53,5	41,5	28,5	6"
45/8E	13	17,5		116	110	106,5	103	99	93	85	80,5	75	63	48	31,5	6"
45/10F	15	20		140,5	130	124,5	119,5	114,5	108	99	93,5	87,5	73,5	57	39,5	6"
45/11F	18,5	25		154,5	143	137	131,5	125,5	118,5	108,5	102,5	96	80,5	62,5	43,5	6"
45/12F	18,5	25		168,5	156	149	143,5	137	129,5	118,5	112	104,5	87,5	68	47	6"
45/13F	22	30		182,5	168,5	161,5	155,5	148,5	140	128	121	113	95	73,5	51	6"
45/14E	22	30		201,5	190,5	183,5	177	169	159	144,5	136	126,5	105,5	81,5	57	6"
45/17F	26	35		238,5	220,5	211	203	194	183	167,5	158	147,5	123,5	95,5	66	6"
45/20F	30	40		280,5	259,5	248,5	238,5	228	215	196,5	186	173,5	145,5	112	75	6"
45/22G	37	50		308	284,5	274	263	250	234	212,5	200,5	187	157	121	78,5	6"
45/24F	37	50		336,5	311	298	286	273,5	258	236	222,5	208	174	134,5	93	6"

ELECTRICAL DATA AND DIMENSIONS

MODEL	MOTOR *	ELECTRICAL DATA			OPERATING BY INVERTER	HORIZONTAL INSTALLATION	L2 mm	L mm	L1 mm	D mm	D1 mm	DN GAS	HYDRAULIC WEIGHT kg	MOTOR WEIGHT kg
		P2 NOMINAL		In A										
		kW	HP											
45/3H-45	4GG	4	5,5	10	●	●	1278	614	664	93	149	3"	26	24
	40L	4	5,5	9,6	●	●	1252	588	664	93	149	3"	26	17
45/4H-47	4GG	5,5	7,5	14	●	●	1457	684	773	93	149	3"	31	27
	40L	5,5	7,5	13,1	●	●	1431	658	773	93	149	3"	31	24
45/5G-610	6GF	7,5	10	18	●	●	1549	661	888	141	150	3"	37	47
	TR6	7,5	10	18	○	●	1705	817	888	144	150	3"	37	53
45/6F-612	6GF	9,3	12,5	22	●	●	1689	686	1003	141	150	3"	42	50
	TR6	9,3	12,5	21	○	●	1850	847	1003	144	150	3"	42	55
45/7E-615	6GF	11	15	25,5	●	●	1849	731	1118	141	150	3"	47	55
	TR6	11	15	25	○	●	1995	877	1118	144	150	3"	47	60
45/8E-617	6GF	13	17,5	28,7	●	●	1994	761	1233	141	150	3"	53	58
	TR6	13	17,5	29	○	●	2140	907	1233	144	150	3"	53	63
45/10F-620	6GF	15	20	33,4	●	●	2249	786	1463	141	150	3"	64	61
	TR6	15	20	32	○	●	2440	977	1463	144	150	3"	64	77
45/11F-625	6GF	18,5	25	41	●	●	2439	861	1578	141	150	3"	69	69
	TR6	18,5	25	39	○	●	2615	1037	1578	144	150	3"	69	83
45/12F-625	6GF	18,5	25	41	●	●	2554	861	1693	141	150	3"	74	69
	TR6	18,5	25	39	○	●	2730	1037	1693	144	150	3"	74	83
45/13F-630	6GF	22	30	47	●	●	2729	921	1808	141	153	3"	80	74
	TR6	22	30	49	○	●	2875	1067	1808	144	153	3"	80	95
45/14E-630	6GF	22	30	47	●	●	2844	921	1923	141	153	3"	85	74
	TR6	22	30	49	○	●	2990	1067	1923	144	153	3"	85	95
45/17F-635	6GF	26	35	57	●	●	3248	980	2268	141	153	3"	101	78
	TR6	26	35	58	○	●	3405	1137	2268	144	153	3"	101	103
45/20F-640	6GF	30	40	61,5	●	●	3664	1051	2613	141	153	3"	117	89
	TR6	30	40	65	○	●	3805	1192	2613	144	153	3"	117	110
45/22G-650	6GF	37	50	79,3	●	●	4024	1181	2843	141	153	3"	128	102
	TR6	37	50	80	○	●	4135	1292	2843	144	153	3"	128	113
45/24F-650	6GF	37	50	79,3	●	●	4254	1181	3073	141	153	3"	139	102
	TR6	37	50	80	○	●	4365	1292	3073	144	153	3"	139	113

* **4GG motor:** 4" water-filled motor with stator immersed in thermosetting insulating resin with high heat dissipation capacity

40L motor: 4" oil-filled rewindable motor

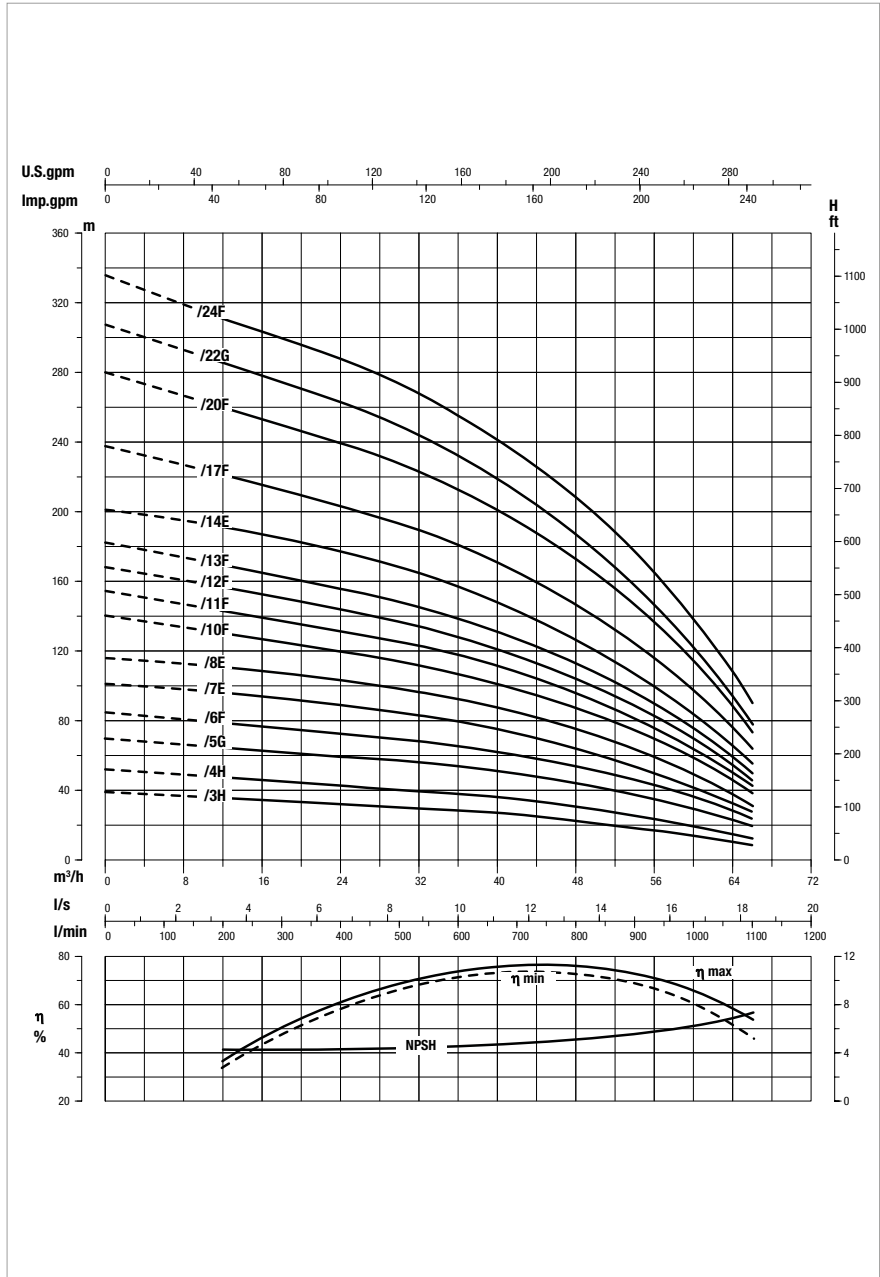
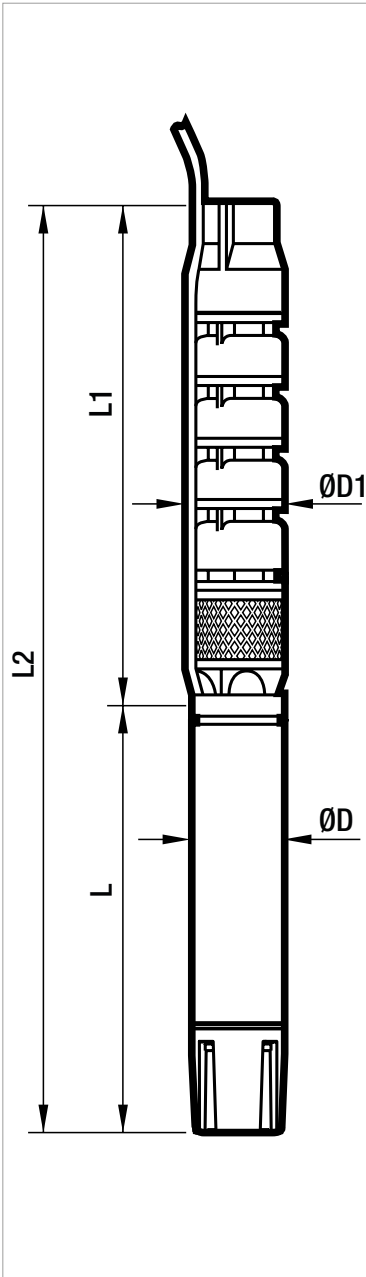
6GF motor: 6" encapsulated water-glycol-filled motor with stator immersed in thermosetting insulating resin

TR motor: 6" - 12" water-filled rewindable motor

●	Permitted
○	Only version PE2 + PA
△	Contact our sales network

SMC6 45

SUBMERSIBLE PUMPS



Performance at 50 Hz 2 poles. The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.
Compliance with MEI

SMC6 60

SUBMERSIBLE PUMPS

PERFORMANCE 50 HZ - 2 POLES

MODEL	ELECTRICAL DATA		HYDRAULIC DATA													STANDARD MOTOR COUPLING
	P2 NOMINAL		Q=m3h	0	18	30	36	42	48	54	60	66	72	78	84	
	kW	HP	Q=l/min	0	300	500	600	700	800	900	1000	1100	1200	1300	1400	
60/2G	4	5,5	H (m)	26,5	24,5	23,5	22,5	21,5	20	18,5	16	14	11	8	5	4"
60/3G	5,5	7,5		39,5	37	35,5	34	32,5	30,5	28	24,5	21	17	13	8	4"
60/4G	7,5	10		52	50,5	48,5	47	45	42	39	34,5	30	25	19,5	13	6"
60/5G	9,3	12,5		65	63	60,5	58,5	56	52,5	48,5	43	37	31	24	16	6"
60/6G	11	15		78	75,5	72,5	70	67,5	63	58	51,5	44,5	36,5	28	18,5	6"
60/7E	13	17,5		94,5	89	83,5	81	77,5	72,5	67	59,5	51	42	32	22,2	6"
60/8E	15	20		108	101,5	95,5	92,5	88,5	83	76,5	68	58,5	47,5	36,5	25,5	6"
60/9E	18,5	25		121,5	114	107,5	104	99,5	93	86	76	65,5	53,5	41	28	6"
60/10E	18,5	25		135	126,5	119,5	115,5	110,5	103,5	95,5	84,5	72,5	59	45	31	6"
60/11E	22	30		148	139,5	131,5	127	121,5	113,5	104,5	93	79,5	65	49,5	34	6"
60/12E	22	30		161,5	152	143	138,5	132,5	124	114	101	87	70,5	54	36,5	6"
60/14E	26	35		188,5	178,5	169,5	163,5	156,5	146	134	119,5	103,5	85,5	66,5	44,5	6"
60/16E	30	40		215,5	204	193,5	187	178,5	166,5	153	136,5	118	97,5	75,5	50,5	6"
60/18F	37	50		238	225	213,5	206	196,5	183	167	148,5	128	105	80	52,5	6"
60/20E	37	50		269,5	255	242	233,5	223	208	191,5	170	147	121,5	94	62,5	6"
60/24E	45	60		323,5	306	290	280	267,5	249,5	229,5	204	176,5	145,5	112	74,5	6"

ELECTRICAL DATA AND DIMENSIONS

MODEL	MOTOR *	ELECTRICAL DATA			OPERATING BY INVERTER	HORIZONTAL INSTALLATION	L2 mm	L mm	L1 mm	D mm	D1 mm	DN GAS	HYDRAULIC WEIGHT kg	MOTOR WEIGHT kg
		P2 NOMINAL		In A										
		kW	HP											
60/2G-45	4GG	4	5,5	10	●	●	1163	614	549	93	149	3"	21	24
	40L	4	5,5	9,6	●	●	1137	588	549	93	149	3"	21	17
60/3G-47	4GG	5,5	7,5	14	●	●	1348	684	664	93	149	3"	26	27
	40L	5,5	7,5	13,1	●	●	1322	658	664	93	149	3"	26	24
60/4G-610	6GF	7,5	10	18	●	●	1434	661	773	141	150	3"	31	47
	TR6	7,5	10	18	○	●	1590	817	773	144	150	3"	31	53
60/5G-612	6GF	9,3	12,5	22	●	●	1574	686	888	141	150	3"	37	50
	TR6	9,3	12,5	21	○	●	1735	847	888	144	150	3"	37	55
60/6G-615	6GF	11	15	25,5	●	●	1734	731	1003	141	150	3"	42	55
	TR6	11	15	25	○	●	1880	877	1003	144	150	3"	42	60
60/7E-617	6GF	13	17,5	28,7	●	●	1879	761	1118	141	150	3"	47	58
	TR6	13	17,5	29	○	●	2025	907	1118	144	150	3"	47	63
60/8E-620	6GF	15	20	33,4	●	●	2019	786	1233	141	150	3"	53	61
	TR6	15	20	32	○	●	2210	977	1233	144	150	3"	53	77
60/9E-625	6GF	18,5	25	41	●	●	2209	861	1348	141	150	3"	58	69
	TR6	18,5	25	39	○	●	2385	1037	1348	144	150	3"	58	83
60/10E-625	6GF	18,5	25	41	●	●	2324	861	1463	141	150	3"	64	69
	TR6	18,5	25	39	○	●	2500	1037	1463	144	150	3"	64	83
60/11E-630	6GF	22	30	47	●	●	2499	921	1578	141	150	3"	69	74
	TR6	22	30	49	○	●	2645	1067	1578	144	150	3"	69	95
60/12E-630	6GF	22	30	47	●	●	2614	921	1693	141	150	3"	74	74
	TR6	22	30	49	○	●	2760	1067	1693	144	150	3"	74	95
60/14E-635	6GF	26	35	57	●	●	2903	980	1923	141	153	3"	85	78
	TR6	26	35	58	○	●	3060	1137	1923	144	153	3"	85	103
60/16E-640	6GF	30	40	61,5	●	●	3204	1051	2153	141	153	3"	96	89
	TR6	30	40	65	○	●	3345	1192	2153	144	153	3"	96	110
60/18F-650	6GF	37	50	79,3	●	●	3564	1181	2383	141	153	3"	106	102
	TR6	37	50	80	○	●	3675	1292	2383	144	153	3"	106	113
60/20E-650	6GF	37	50	79,3	●	●	3794	1181	2613	141	153	3"	117	102
	TR6	37	50	80	○	●	3905	1292	2613	144	153	3"	117	113
60/24E-660	6GF	45	60	95	●	●	4434	1361	3073	141	153	3"	139	118
	TR6	45	60	93,1	○	●	4530	1457	3073	144	153	3"	139	135

* 4GG motor: 4" water-filled motor with stator immersed in thermosetting insulating resin with high heat dissipation capacity

40L motor: 4" oil-filled rewindable motor

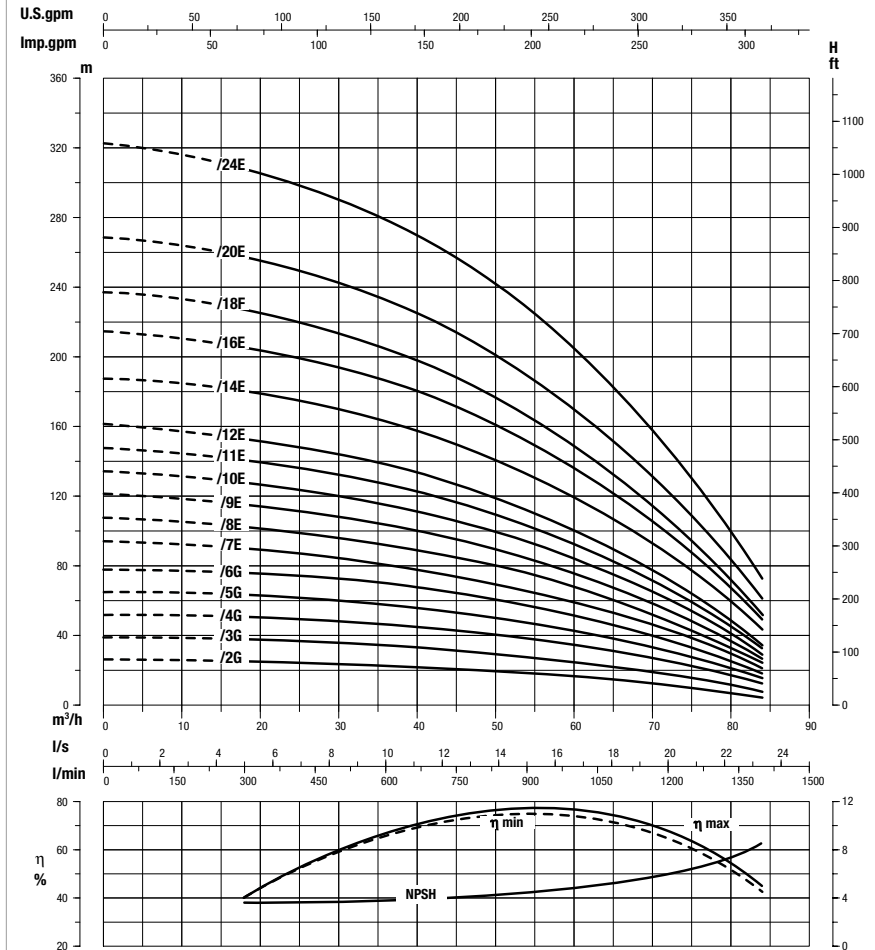
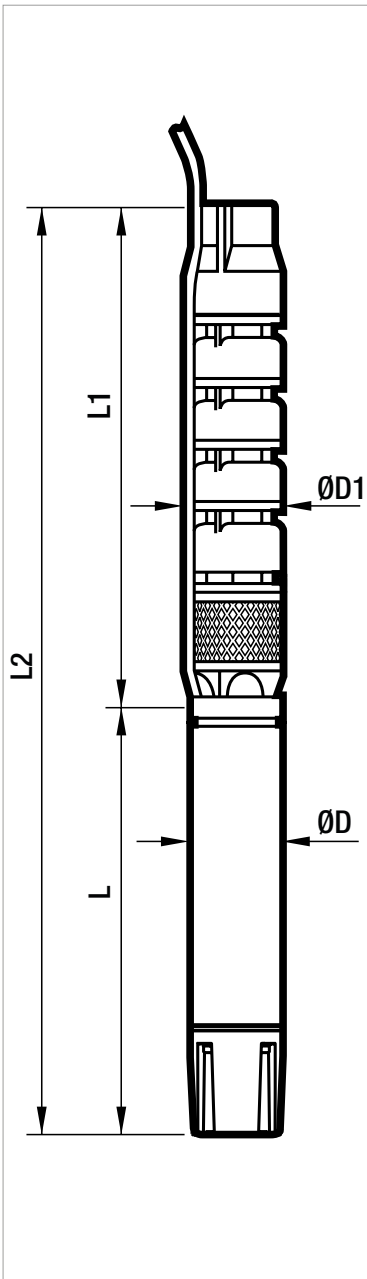
6GF motor: 6" encapsulated water-glycol-filled motor with stator immersed in thermosetting insulating resin

TR motor: 6" - 12" water-filled rewindable motor

●	Permitted
○	Only version PE2 + PA
△	Contact our sales network

SMC6 60

SUBMERSIBLE PUMPS



Performance at 50 Hz 2 poles. The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906. **Compliance with MEI**