SMC10

SUBMERSIBLE PUMPS

SMC10

TECHNICAL DATA

Flow rate maximum: up to 420 m³/h
Head up to: 310 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
Flanges, thread: 6" with counter flange to be welded onto the pipeline supplied as standard.
Pump maximum diameter: 249 mm
Impeller/s material: pressed AISI 304 stainless steel
Maximum number of starts: depending on the motor
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)

SMC10 is a 10" multi-impeller semi-axial submersible pump with cast iron stage bodies treated with an anti-corrosion cataphoresis paint coating and microcast impellers. Pumps designed for pressurization, drawing water from the subsoil and water transfer in the agricultural sector. The pump is ideal for installation in wells (of at least 10"). The pump is compliant with DM174 for use with water for human consumption.

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 non-return valve to reduce localized pressure drops. Stainless steel filter applied to the suction outlet to prevent the entry of dissolved solid bodies. Different types of impeller are available to guarantee the best efficiency at different flow rates and models up to 10 impellers to cover a wide range of heads.

CONSTRUCTION FEATURES OF THE MOTOR

Coupling with 6" or 10" motors depending on the power required by the hydraulic system:
- 6GF: 6" submersible encapsulated motor
- TR6: 6" submersible rewindable motor
- TR8: 8" submersible rewindable motor
- TR10: 10" submersible rewindable motor

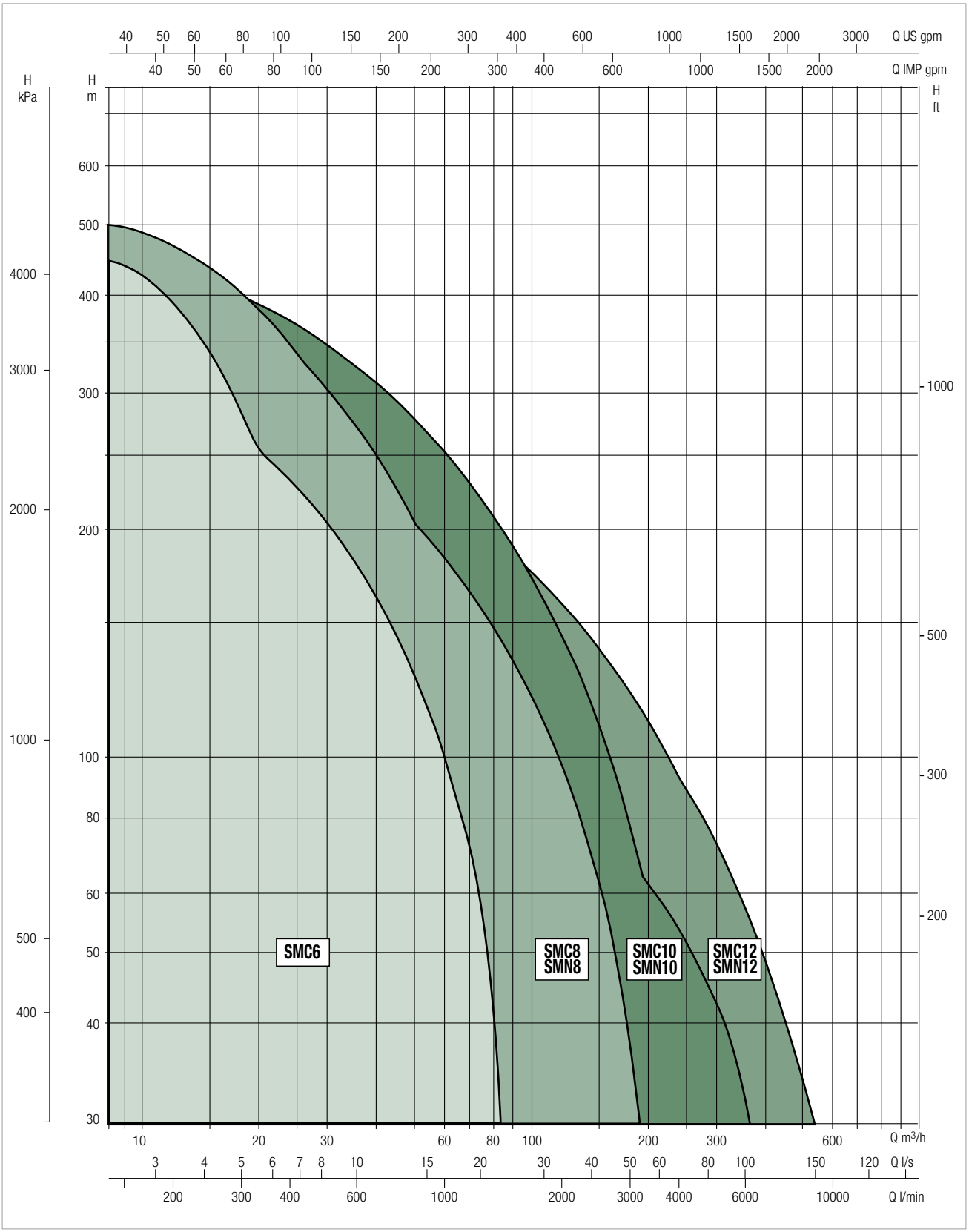
For operation with the variable frequency drive, refer to the specifications of the coupled motor.

PERFORMANCE RANGE

The performance curves are based on the kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

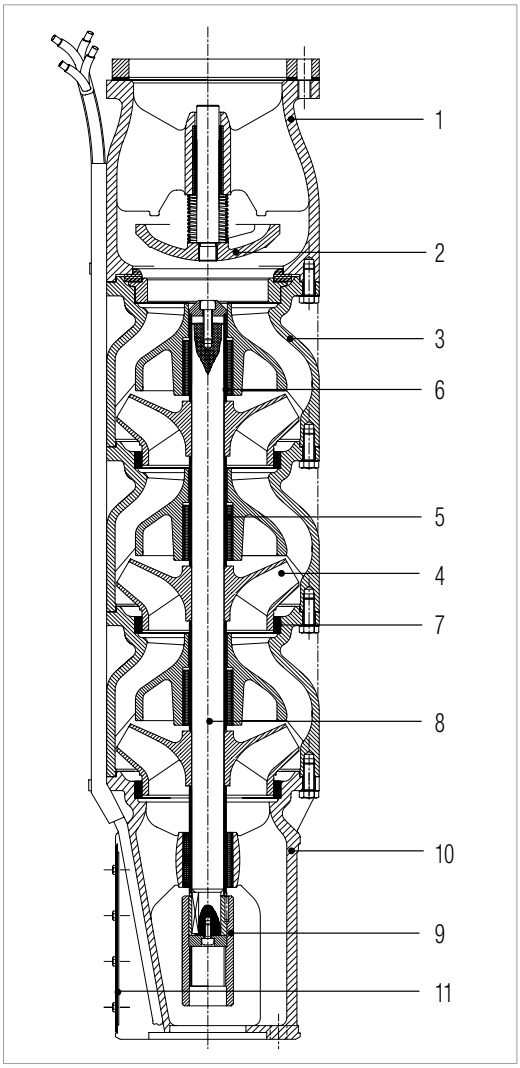
GRAPHIC SELECTION TABLE

50 Hz - 2900 r.p.m.



MATERIALS

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



– Denomination index:
(example)

SM C 10 200 / 1 M - 6 15

- SM — Semiaxial submersible pump
- C — Construction material: C = cast iron + cataphoresis, N = AISI 316 stainless steel
- 10 — Diameter in inches of the submersible pump
- 200 — Nominal flow rate at B.E.P. (m^3/h)
- 1 — Number of stages
- M — Geometry of the impeller
- 6 — Diameter in inches of the motor
- 15 — Nominal power in HP

SMC10 200

SUBMERSIBLE PUMPS

PERFORMANCE 50 HZ - 2 POLES

MODEL	ELECTRICAL DATA		HYDRAULIC DATA														STANDARD MOTOR COUPLING
	P2 NOMINAL		Q=m³h	0	60	84	108	132	150	168	180	192	210	234	258	
	kW	HP	Q=l/min	0	1000	1400	1800	2200	2500	2800	3000	3200	3500	3900	4300	
200/1M	11	15		32	25,5	24	22	20,5	19	17,5	16,5	15	12,5	9	-	6"
200/1L	13	17,5		35,5	29	27	25,5	24	22,5	21	19,5	18	15,5	11,5	6,5	6"
200/1H	15	20		40	33	30,5	29	27	25,5	24	23	21,5	19	16	12	6"
200/1G	18,5	25		41	34	32	30	28	26,5	25	24	22,5	20	17	13	6"
200/1C	18,5	25		45	37	34,5	32,5	30,5	29	27,5	26	24,5	22	18,5	14	6"
200/1A	22	30		48	39	36,5	34,5	32,5	31,5	29,5	28,5	27	24	19,5	14	6"
200/2M	22	30		64	51,5	48	44,5	41	38,5	35,5	33	30	25,5	17,5	-	6"
200/2L	26	35		70,5	58,5	55	52	48,5	46	43	40,5	37,5	32,5	24	14,5	6"
200/2H	30	40		79,5	66	62	58,5	55	52	48,5	46	43	38	30	20,5	6"
200/2G	37	50		84	70,5	66,5	62,5	59	56	52,5	50	47	41,5	34	25	6"
200/2E	37	50		90	77	72	68	64	61	58	56	53	48	40,5	31	6"
200/2B	45	60		94,5	80	75,5	71,5	67,5	64,5	61	59	55,5	50,5	43	34,5	8"
200/3H	45	60		117	99	93,5	89	84	80	75,5	72	67,5	59,5	47,5	33	8"
200/3G	55	75	H (m)	130	110	104	98,5	93	88,5	84	80	75,5	67,5	56	42	8"
200/3E	55	75		137	116,5	110	104,5	99	94,5	90	86,5	81,5	73,5	62,5	48,5	8"
200/3B	63	85		143	122	115,5	109,5	104	99,5	94,5	91,5	86,5	78,5	67,5	54	8"
200/4G	75	100		168,5	142,5	134,5	128	121	115	108,5	104	97,5	86,5	70,5	51	8"
200/4D	75	100		183,5	156	148	141	133,5	128	121,5	117	110,5	100	84	65,5	8"
200/5I	75	100		200	169	159,5	151,5	142,5	135,5	127,5	121,5	113,5	100,5	80	56,5	8"
200/5F	92	125		224	192	180,5	171,5	163	157	150	144,5	137	124	104	80	8"
200/6I	92	125		241	204,5	193,5	184,5	174,5	166,5	156,5	149,5	140	124	99	69	8"
200/6F	110	150		269	230	216,5	205,5	195,5	188,5	180	173	164	149	124,5	96	8"
200/7H	110	150		283	241,5	227,5	216,5	205,5	197	186,5	178,5	167	147,5	118	83	8"
200/7E	132	180		319	271	256,5	244	231,5	222	211	203	192,5	174	148	116,5	10"
200/8D	147	200		366,5	314	295,5	281	267	256,5	245	236,5	224,5	203,5	172,5	135,5	10"
200/9D	170	230		412	353,5	332,5	316	300,5	288,5	275,5	266	252,5	229	194	152,5	10"
200/10E	190	260		453	388	365	347	330	317	302	291,5	276,5	250	211	165	10"

SMC10 200
SUBMERSIBLE PUMPS

ELECTRICAL DATA AND DIMENSIONS

MODEL	MOTOR *	ELECTRICAL DATA			OPERATING BY INVERTER	HORIZONTAL INSTALLATION	L2 mm	L mm	L1 mm	D mm	D1 mm	DN	SMC WEIGHT kg	MOTOR WEIGHT kg **
		P2 NOMINAL		In A										
		kW	HP											
200/1M-615	6GF	11	15	25,5	●	●	1418	731	687	141	247	6"	66	54,5
	TR6	11	15	25	O	●	1564	877	687	144	247	6"	66	60
200/1L-617	6GF	13	17,5	28,7	●	●	1448	761	687	141	247	6"	66	58,4
	TR6	13	17,5	29	O	●	1594	907	687	144	247	6"	66	63
200/1H-620	6GF	15	20	33,4	●	●	1473	786	687	141	247	6"	66	60,4
	TR6	15	20	32	O	●	1664	977	687	144	247	6"	66	77
200/1G-625	6GF	18,5	25	41	●	●	1548	861	687	141	247	6"	66	69
	TR6	18,5	25	39	O	●	1724	1037	687	144	247	6"	66	80
200/1C-625	6GF	18,5	25	41	●	●	1548	861	687	141	247	6"	66	69
	TR6	18,5	25	39	O	●	1724	1037	687	144	247	6"	66	80
200/1A-630	6GF	22	30	47	●	●	1608	921	687	141	247	6"	66	74
	TR6	22	30	49	O	●	1754	1067	687	144	247	6"	66	95
200/2M-630	6GF	22	30	47	●	●	1768	921	847	141	247	6"	92	74
	TR6	22	30	49	O	●	1914	1067	847	144	247	6"	92	95
200/2L-635	6GF	26	35	57	●	●	1827	980	847	141	247	6"	92	78
	TR6	26	35	58	O	●	1984	1137	847	144	247	6"	92	103
200/2H-640	6GF	30	40	61,5	●	●	1898	1051	847	141	247	6"	92	88,5
	TR6	30	40	65	O	●	2039	1192	847	144	247	6"	92	110
200/2G-650	6GF	37	50	79,3	●	●	2048	1181	867	141	249	6"	92	102
	TR6	37	50	80	O	●	2159	1292	867	144	249	6"	92	113
200/2E-650	6GF	37	50	79,3	●	●	2048	1181	867	141	249	6"	92	102
	TR6	37	50	80	O	●	2159	1292	867	144	249	6"	92	113
200/2B-860	TR8	45	60	92	O	●	2137	1270	867	192	249	6"	92	177
200/3H-860	TR8	45	60	92	O	●	2317	1270	1047	192	249	6"	118	177
200/3G-875	TR8	55	75	109	O	●	2397	1350	1047	192	249	6"	118	192
200/3E-875	TR8	55	75	109	O	●	2397	1350	1047	192	249	6"	118	192
200/3B-885	TR8	63	85	126	O	●	2537	1490	1047	192	249	6"	118	218
200/4G-8100	TR8	75	100	145	O	●	2817	1590	1227	192	249	6"	162	237
200/4D-8100	TR8	75	100	145	O	●	2817	1590	1227	192	249	6"	162	237
200/5I-8100	TR8	75	100	145	O	●	2997	1590	1407	192	249	6"	187	237
200/5F-8125	TR8	92	125	177	O	●	3413	1830	1583	192	249	6"	187	283
200/6I-8125	TR8	92	125	177	O	●	3585	1830	1755	192	249	6"	213	283
200/6F-8150	TR8	110	150	213	O	●	3731	2060	1671	192	249	6"	213	333
200/7H-8150	TR8	110	150	213	O	●	3911	2060	1851	192	249	6"	239	333
200/7E-10180	TR10	132	180	257	O	●	3721	1870	1851	237	249	6"	239	435
200/8D-10200	TR10	147	200	300	O	●	4101	2070	2031	237	249	6"	264	500
200/9D-10230	TR10	170	230	348	O	●	4431	2220	2211	237	249	6"	290	540
200/10E-10260	TR10	190	260	405	O	●	4791	2400	2391	237	249	6"	316	580

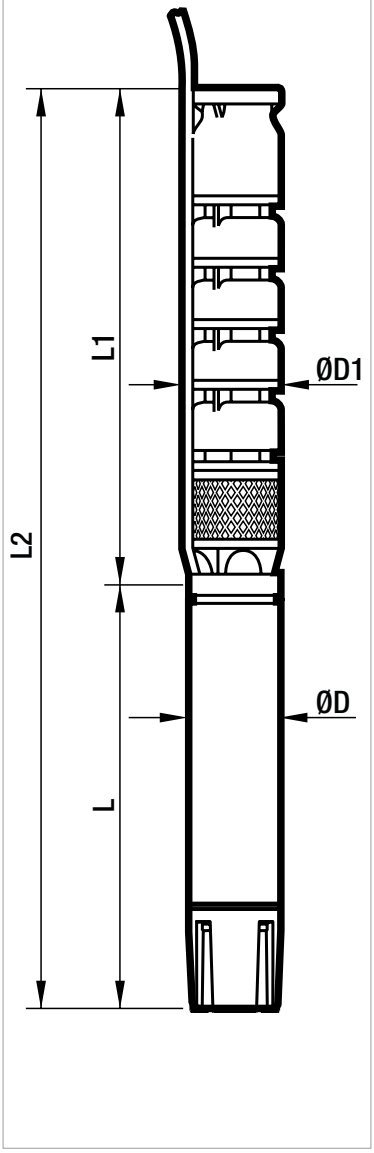
*** 6GF motor:** 6" encapsulated water-gycol-filled motor with stator immersed in thermosetting insulating resin
TR motor: 6" - 12" water-filled rewindable motor

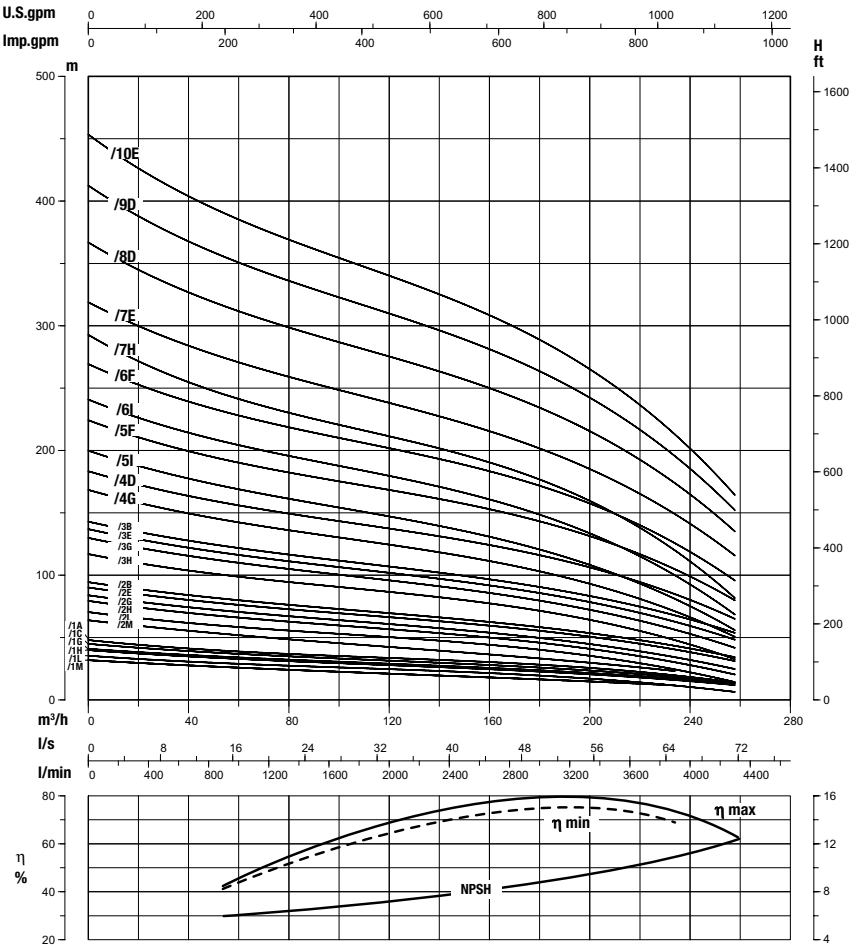
****** For the weight of the AISI 316 version, please check the reference motor page or contact our sales network.

●	Permitted
O	Only version PE2 + PA
Δ	Contact our sales network

SMC10 200

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.

SMC10 320

SUBMERSIBLE PUMPS

PERFORMANCE 50 HZ - 2 POLES

MODEL	ELECTRICAL DATA		HYDRAULIC DATA													STANDARD MOTOR COUPLING
	P2 NOMINAL		Q=m³h	0	120	150	180	210	240	270	300	330	360	390	420	
	kW	HP	Q=l/min	0	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	
320/1O	22	30	H (m)	34	27,5	26,5	25,5	24,5	23,5	22	20	16,5	12,5	-	-	6"
320/1M	26	35		36	29,5	28,5	27,5	27	26	25	22,5	19,5	16	12,5	-	6"
320/1F	30	40		40	32,5	31	30	29,5	28,5	27,5	26	23	19,5	15,5	10,5	6"
320/1D	37	50		43,5	34,5	33	32	31,5	31	30,5	29	26	22,5	18,5	14	6"
320/1B	37	50		46	37	35	34,5	33,5	33	32,5	31	28,5	25	21	16,5	6"
320/2P	45	60		62	52	50,5	49	47	44	40,5	35,5	29	22	-	-	8"
320/2N	45	60		67,5	57,5	55,5	53,5	51,5	49	45,5	41,5	36	29,5	22,5	14	8"
320/2M	55	75		71	61	59	57,5	55,5	53,5	50,5	46,5	41	34	27	19,5	8"
320/2H	55	75		72	64	61,5	60	58,5	56,5	54	50,5	45,5	38,5	31	21	8"
320/2D	63	85		77	67	65	63,5	62	60,5	58	54,5	49,5	43	35,5	27	8"
320/3I	75	100		106	93,5	90,5	88	85,5	82	77,5	71,5	63	53,5	42,5	31,5	8"
320/3C	92	125		117,5	104,5	102	99	96	94	91	86	79,5	70	57	41	8"
320/4G	110	150		150	134,5	130	126,5	123	119	113,5	106,5	96,5	84,5	71	56	8"
320/4B	132	180		162	147	142,5	138,5	135	130,5	125,5	118,5	108,5	96,5	84,5	69,5	10"
320/5L	132	180		181	162	157	152,5	148	142,5	136	127	114,5	99	81,5	63	10"
320/5E	147	200		196	177,5	172	167	162,5	157	150,5	141,5	129	114,5	98	79,5	10"
320/6G	170	230		225	201,5	195,5	190	184,5	178	170	160	145	127	106	83,5	10"
320/7L	190	260		253,5	227	219,5	213,5	207	199,5	190	178	160	138,5	114,5	88,5	10"

SMC10 320

SUBMERSIBLE PUMPS

ELECTRICAL DATA AND DIMENSIONS

MODEL	MOTOR *	ELECTRICAL DATA			OPERATING BY INVERTER	HORIZONTAL INSTALLATION	L2 mm	L mm	L1 mm	D mm	D1 mm	DN	SMC WEIGHT kg	MOTOR WEIGHT kg **
		P2 NOMINAL		In A										
		kW	HP											
320/1O-630	6GF	22	30	47	●	●	1624	921	703	141	247	6"	64,5	74
	TR6	22	30	49	O	●	1770	1067	703	144	247	6"	64,5	95
320/1M-635	6GF	26	35	57	●	●	1683	980	703	141	247	6"	64,5	78
	TR6	26	35	58	O	●	1840	1137	703	144	247	6"	64,5	103
320/1F-640	6GF	30	40	61,5	●	●	1754	1051	703	141	247	6"	64,5	89
	TR6	30	40	65	O	●	1895	1192	703	144	247	6"	64,5	110
320/1D-650	6GF	37	50	79,3	●	●	1884	1181	703	141	247	6"	64,5	102
	TR6	37	50	80	O	●	1995	1292	703	144	247	6"	64,5	113
320/1B-650	6GF	37	50	79,3	●	●	1884	1181	703	141	249	6"	65,5	102
	TR6	37	50	80	O	●	1995	1292	703	144	249	6"	65,5	113
320/2P-860	TR8	45	60	92	O	●	2168	1270	898	192	249	6"	91	177
320/2N-860	TR8	45	60	92	O	●	2168	1270	898	192	249	6"	91	177
320/2M-875	TR8	55	75	109	O	●	2248	1350	898	192	249	6"	91	192
320/2H-875	TR8	55	75	109	O	●	2248	1350	898	192	249	6"	91	192
320/2D-885	TR8	63	85	126	O	●	2388	1490	898	192	249	6"	91	218
320/3I-8100	TR8	75	100	145	O	●	2767	1590	1177	192	249	6"	116	237
320/3C-8125	TR8	92	125	177	O	●	3007	1830	1177	192	249	6"	116	283
320/4G-8150	TR8	110	150	213	O	●	3432	2060	1372	192	249	6"	160	333
320/4B-10180	TR10	132	180	257	O	●	3242	1870	1372	237	249	6"	160	435
320/5L-10180	TR10	132	180	257	O	●	3438	1870	1568	237	249	6"	185,5	435
320/5E-10200	TR10	147	200	300	O	●	3638	2070	1568	237	249	6"	185,5	500
320/6G-10230	TR10	170	230	348	O	●	3983	2220	1763	237	249	6"	211	540
320/7L-10260	TR10	190	260	405	O	●	4359	2400	1959	237	249	6"	236,5	580

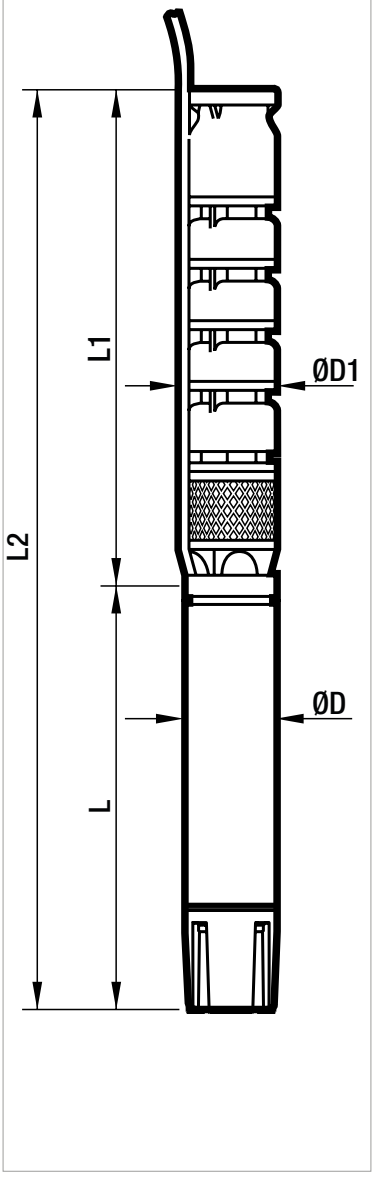
*** 6GF motor:** 6" encapsulated water-gycol-filled motor with stator immersed in thermosetting insulating resin
TR motor: 6" - 12" water-filled rewindable motor

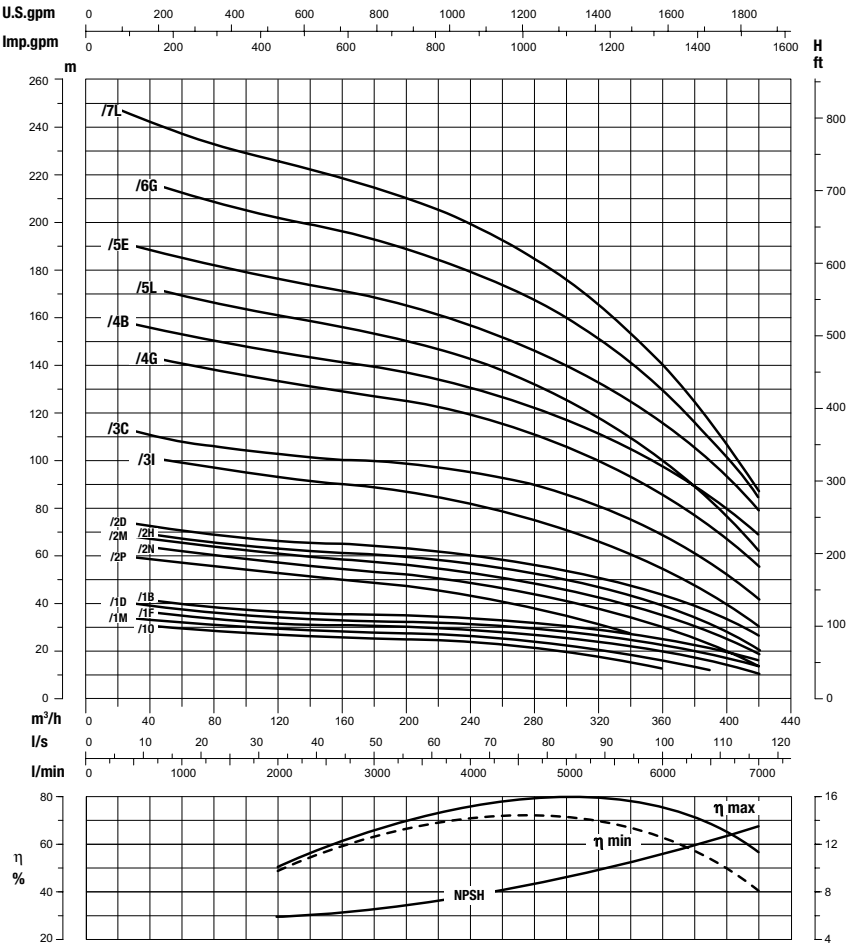
****** For the weight of the AISI 316 version, please check the reference motor page or contact our sales network.

●	Permitted
O	Only version PE2 + PA
Δ	Contact our sales network

SMC10 320

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.