



SMN10

TECHNICAL DATA

Flow rate maximum: up to 420 m³/h

Head up to: 253 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. The version in AISI 316 stainless steel is also suitable for aggressive solutions and/or salt water.

Maximum sand quantity: 100 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 316 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)

10" multi-impeller semi-axial submersible pump made of AISI 316 stainless steel. 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

Pump body and impellers fully made of microcast AISI 316 stainless steel. The impellers are dynamically balanced and 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 7 impellers to cover a wide range of heads.

CONSTRUCTION FEATURES OF THE MOTOR

Coupling with motors from 6" to 10" depending on the power required by the hydraulic system:

- 6GF: 6" submersible encapsulated motor
- TR6: 6" submersible rewindable motor, with AISI 316 stainless steel version or DUPLEX version
- TR8: 8" submersible rewindable motor with AISI 316 stainless steel version or DUPLEX version
- TR10: 10" submersible rewindable motor with AISI 316 stainless steel version or DUPLEX version

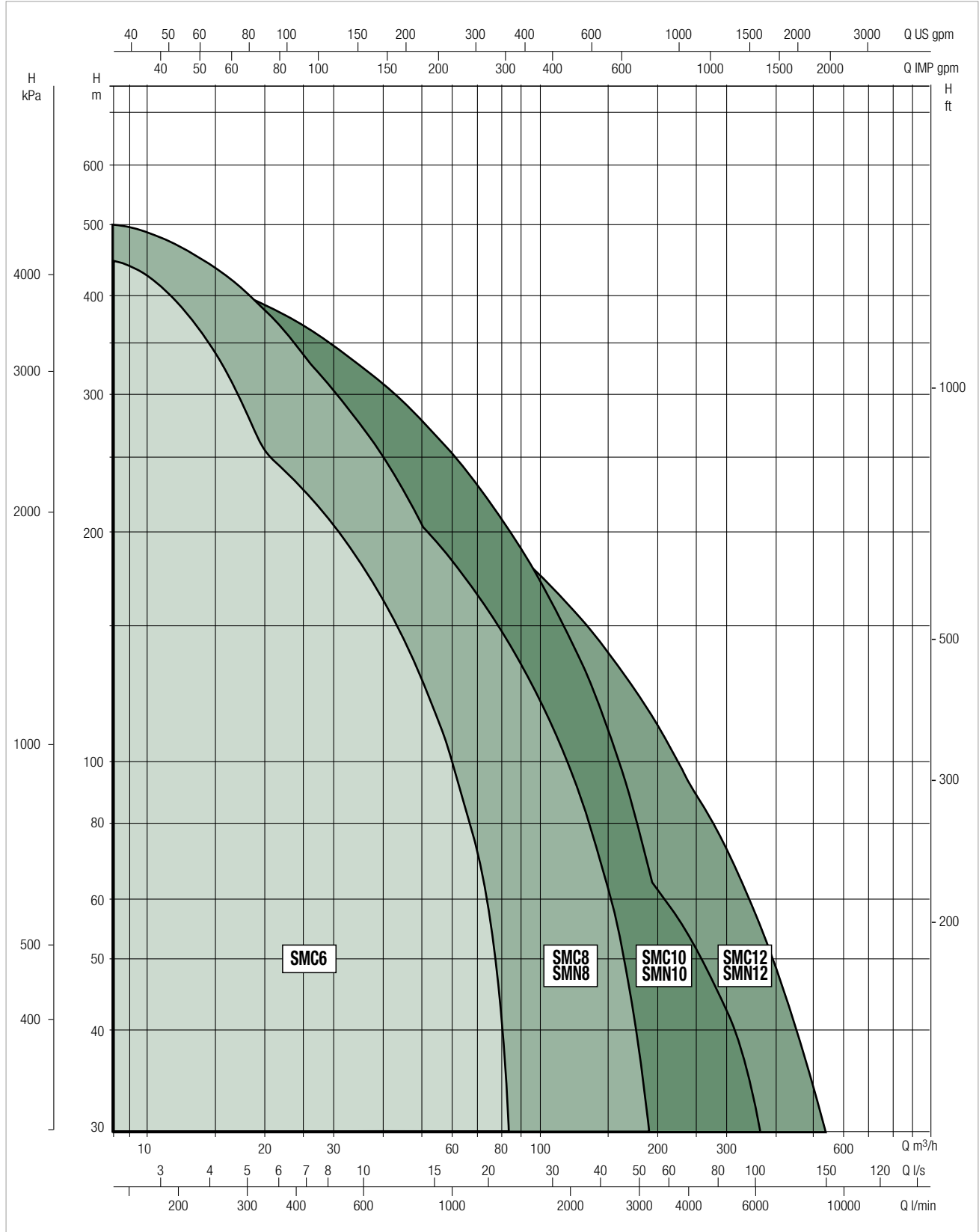
For operation with the variable frequency drive, refer to the specifications of the coupled motor.

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.

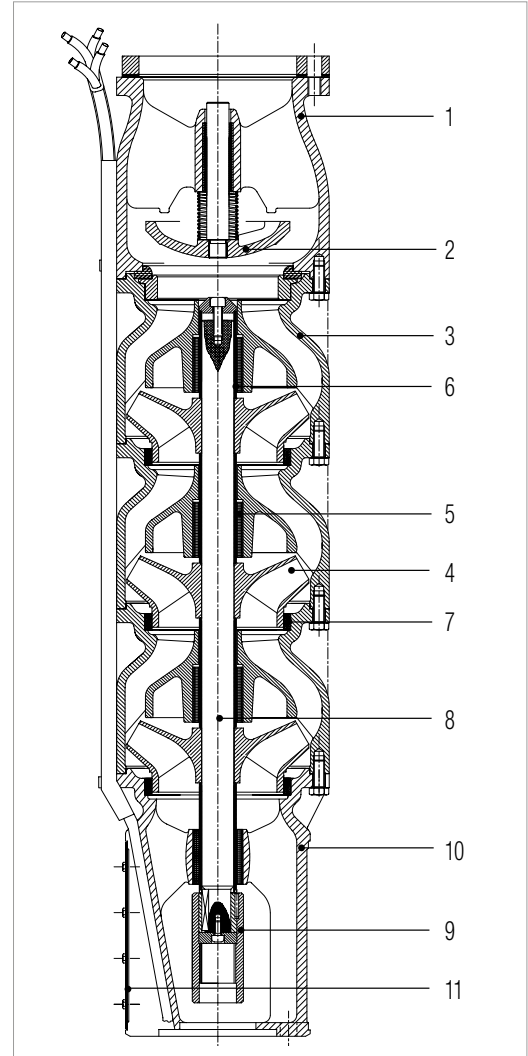
GRAPHIC SELECTION TABLE

50 Hz - 2900 r.p.m.

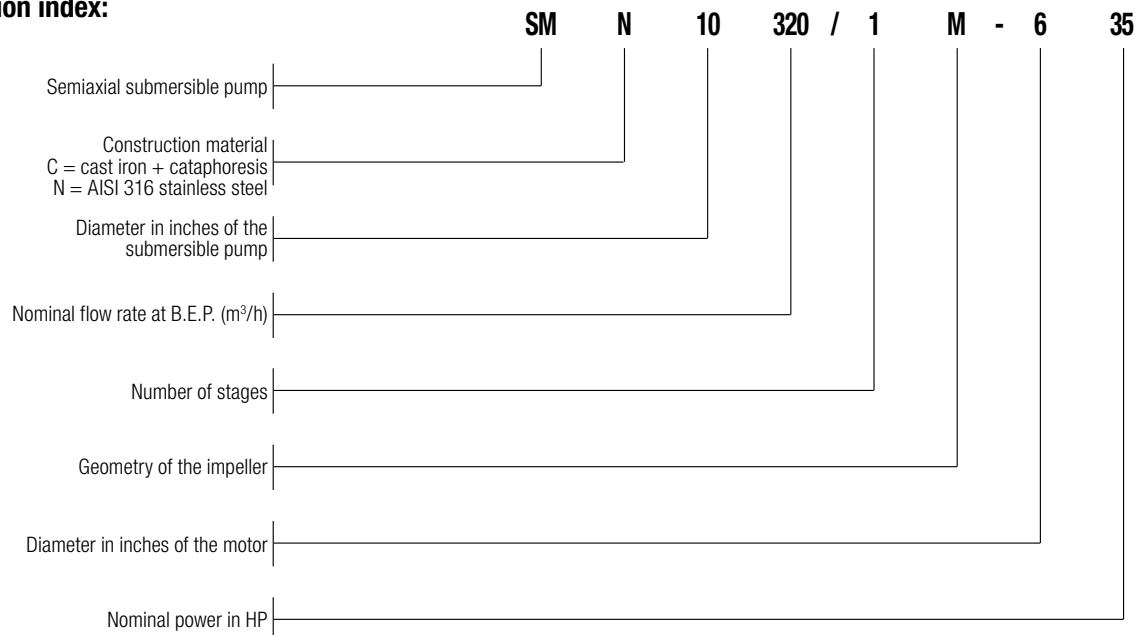


MATERIALS

N.	PARTS	MATERIALS
1	DELIVERY BODY	AISI 316 STAINLESS STEEL
2	NON-RETURN VALVE	AISI 316 STAINLESS STEEL
3	DIFFUSER	AISI 316 STAINLESS STEEL
4	IMPELLER	AISI 316 STAINLESS STEEL
5	GUIDE BEARING	VITON
6	BUSH	AISI 316 STAINLESS STEEL
7	WEAR RING	POM
8	PUMP SHAFT	AISI 329 DUPLEX STAINLESS STEEL
9	PIPE	AISI 329 DUPLEX STAINLESS STEEL
10	SUCTION BODY	AISI 316 STAINLESS STEEL
11	FILTER GRID	AISI 316 STAINLESS STEEL



- Denomination index:
(example)



SMN10 320

SUBMERSIBLE PUMPS

PERFORMANCE 50 HZ - 2 POLES

MODEL	ELECTRICAL DATA		Q=m ³ h Q=l/min	HYDRAULIC DATA												STANDARD MOTOR COUPLING
	P2 NOMINAL			0	120	150	180	210	240	270	300	330	360	390	420	
	kW	HP		0	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	
320/10	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"	

ELECTRICAL DATA AND DIMENSIONS

MODEL	MOTOR *	ELECTRICAL DATA			OPERATING BY INVERTER	HORIZONTAL INSTALLATION	L2 mm	L mm	L1 mm	D mm	D1 mm	DN	WEIGHT kg	MOTOR WEIGHT kg **
		P2 NOMINAL		In A										
		kW	HP											
320/10-630	6GF	22	30	47	●	●	1624	921	703	141	247	6"	74	74
	TR6	22	30	49	○	●	1770	1067	703	144	247	6"	95	95
320/1M-635	6GF	26	35	57	●	●	1683	980	703	141	247	6"	78	78
	TR6	26	35	58	○	●	1840	1137	703	144	247	6"	103	103
320/1F-640	6GF	30	40	61,5	●	●	1754	1051	703	141	247	6"	89	89
	TR6	30	40	65	○	●	1895	1192	703	144	247	6"	110	110
320/1D-650	6GF	37	50	79,3	●	●	1884	1181	703	141	247	6"	102	102
	TR6	37	50	80	○	●	1995	1292	703	144	247	6"	113	113
320/1B-650	6GF	37	50	79,3	●	●	1884	1181	703	141	249	6"	102	102
	TR6	37	50	80	○	●	1995	1292	703	144	249	6"	113	113
320/2P-860	TR8	45	60	92	○	●	2168	1270	898	192	249	6"	177	177
320/2N-860	TR8	45	60	92	○	●	2168	1270	898	192	249	6"	177	177
320/2M-875	TR8	55	75	109	○	●	2248	1350	898	192	249	6"	192	192
320/2H-875	TR8	55	75	109	○	●	2248	1350	898	192	249	6"	192	192
320/2D-885	TR8	63	85	126	○	●	2388	1490	898	192	249	6"	218	218
320/3I-8100	TR8	75	100	145	○	●	2683	1590	1093	192	249	6"	237	237
320/3C-8125	TR8	92	125	177	○	●	2923	1830	1093	192	249	6"	283	283
320/4G-8150	TR8	110	150	213	○	●	3432	2060	1372	192	249	6"	333	333
320/4B-10180	TR10	132	180	257	○	●	3242	1870	1372	237	249	6"	435	435
320/5L-10180	TR10	132	180	257	○	●	3438	1870	1568	237	249	6"	435	435
320/5E-10200	TR10	147	200	300	○	●	3638	2070	1568	237	249	6"	500	500
320/6G-10230	TR10	170	230	348	○	●	3983	2220	1763	237	249	6"	540	540
320/7L-10260	TR10	190	260	405	○	●	4359	2400	1959	237	249	6"	580	580

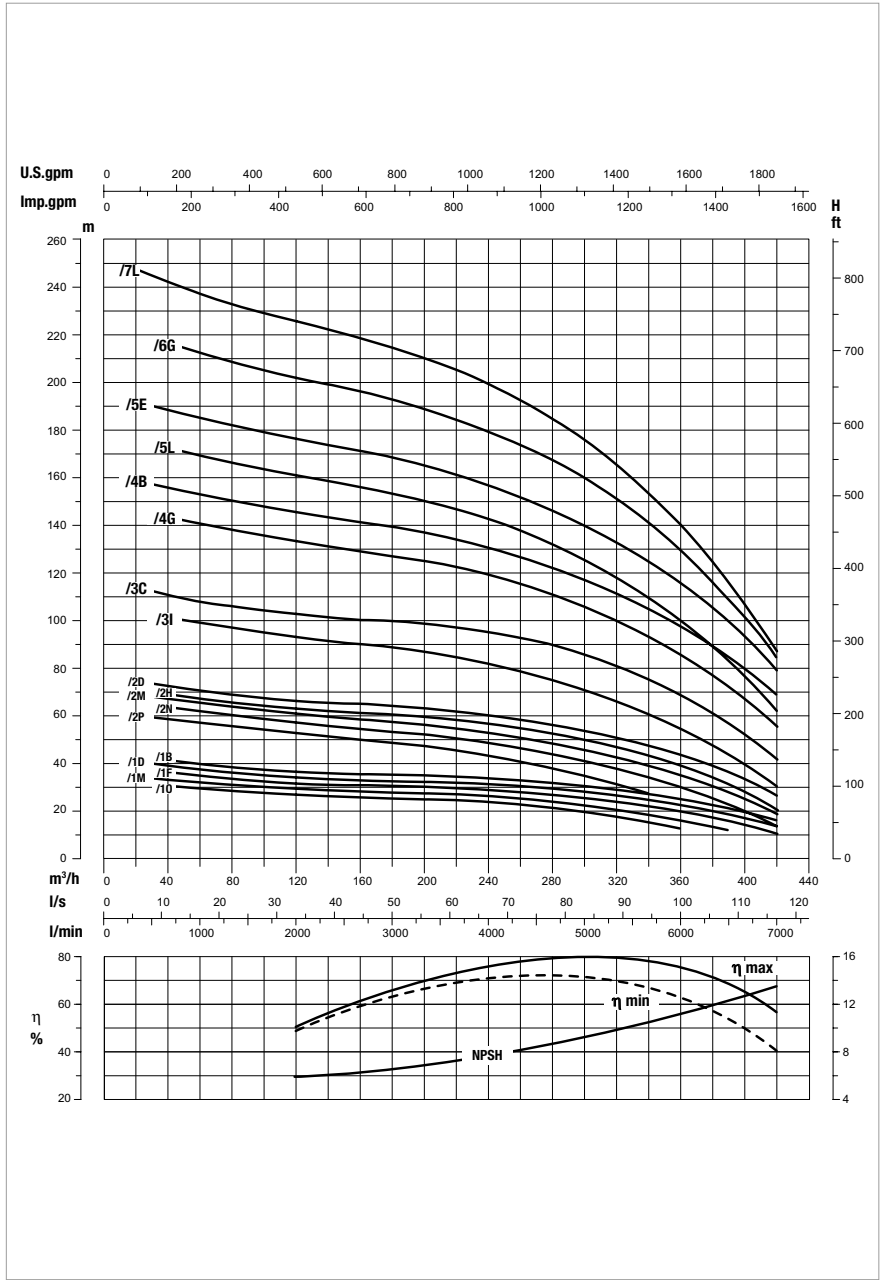
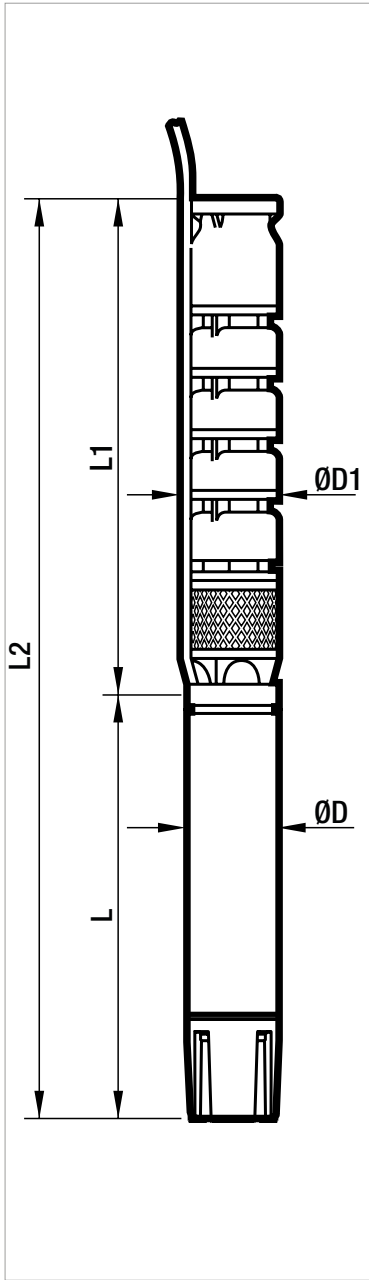
* **6GF motor:** 6" encapsulated water-glycol-filled motor with stator immersed in thermosetting insulating resin
TR motor: 6" - 12" water-filled rewindable motor

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

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

SMN10 320

SUBMERSIBLE PUMPS



Performance at 50 Hz 2 poles. The performance curves are based on kinematic viscosity values = $1 \text{ mm}^2/\text{s}$ and density equal to $1000 \text{ kg}/\text{m}^3$. Curve tolerance according to ISO 9906.