



SMN12

### TECHNICAL DATA

**Flow rate maximum:** up to 540 m<sup>3</sup>/h

**Head up to:** 315 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/m<sup>3</sup>

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

**Flanges, thread:**

7" with counter flange to be welded onto the pipeline supplied as standard

**Pump maximum diameter:** 298 mm

**Impeller/s material:** pressed AISI 316 stainless steel

**Maximum number of starts:** depending on the motor

**Protection class:** IP 68

**Motor insulation class:** depending on the motor

**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)

12" multi-impeller semi-axial submersible pump in AISI 316 stainless steel. The pump is ideal for installation in wells (of at least 12"). 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 5 impellers to cover a wide range of heads.

### CONSTRUCTION FEATURES OF THE MOTOR

Coupling with motors from 8" to 12" depending on the power required by the hydraulic system:

- 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
- TR12: 12" submersible rewindable motor with AISI 316 stainless steel version or DUPLEX version

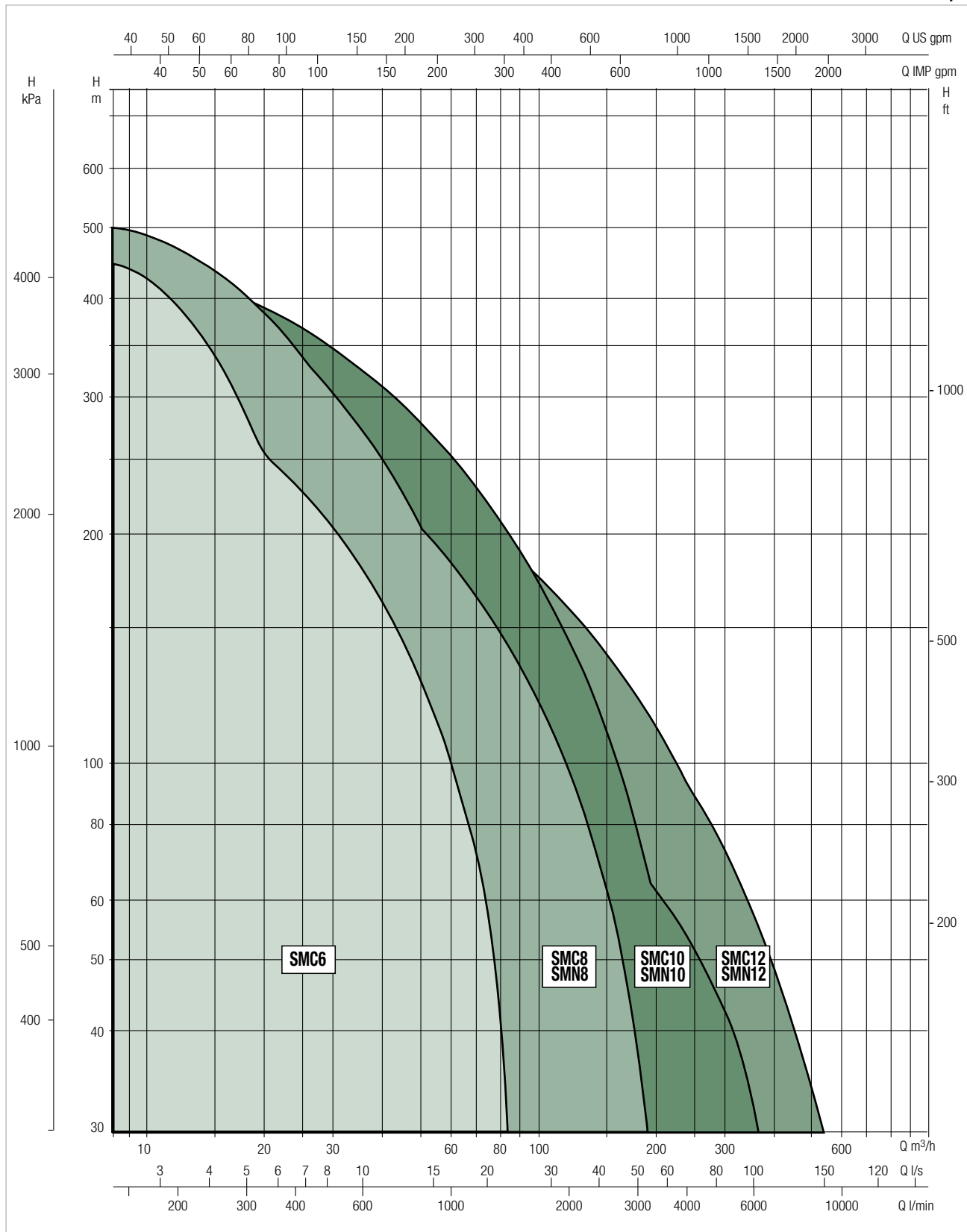
For operation with the variable frequency drive, refer to the specifications of the coupled motor.

### PERFORMANCE RANGE

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

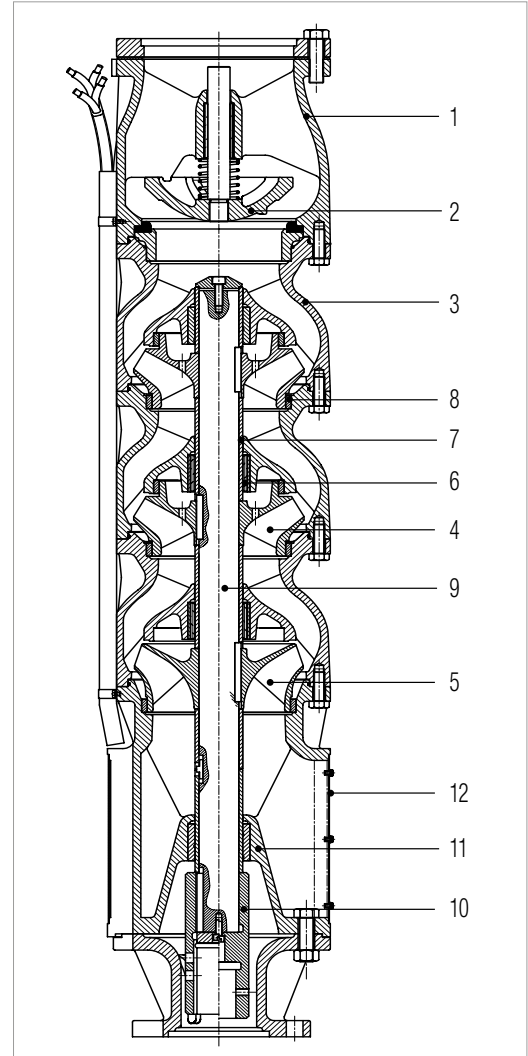
#### GRAPHIC SELECTION TABLE

50 Hz - 2900 r.p.m.

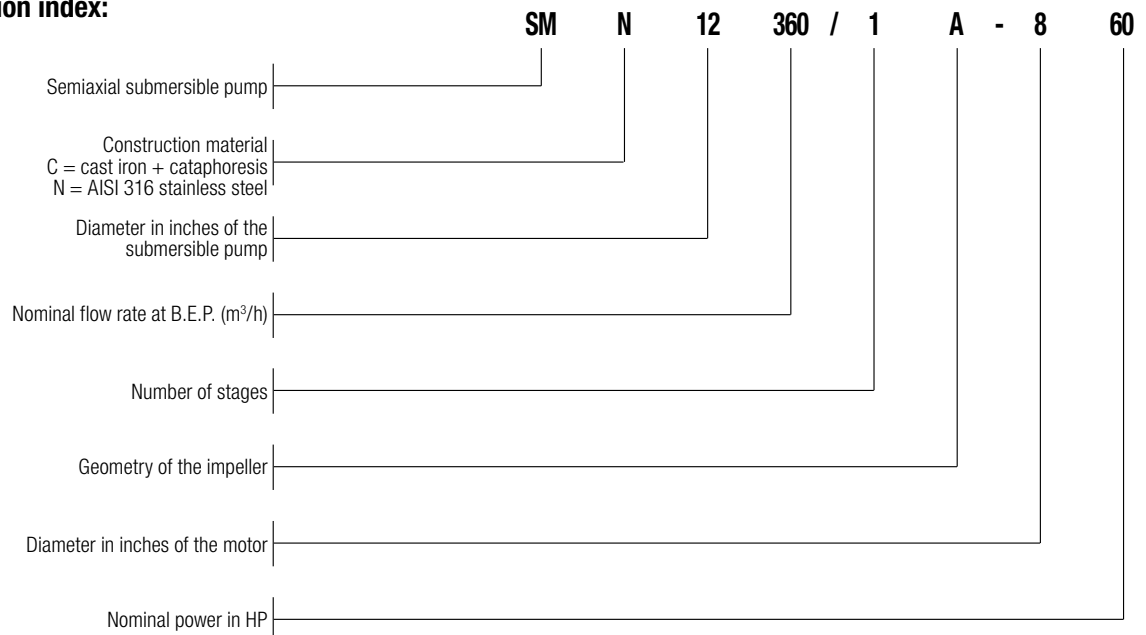


### MATERIALS

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	SUCTION IMPELLER	AISI 316 STAINLESS STEEL
6	GUIDE BEARING	VITON
7	BUSH	AISI 316 STAINLESS STEEL
8	WEAR RING	POM
9	PUMP SHAFT	AISI 329 DUPLEX STAINLESS STEEL
10	PIPE	AISI 329 DUPLEX STAINLESS STEEL
11	SUCTION BODY	AISI 316 STAINLESS STEEL
12	FILTER GRID	AISI 316 STAINLESS STEEL



**- Denomination index:**  
(example)



# SMN12 360

## SUBMERSIBLE PUMPS

### PERFORMANCE 50 HZ - 2 POLES

MODEL	ELECTRICAL DATA		HYDRAULIC DATA														STANDARD MOTOR COUPLING
	P2 NOMINAL		Q=m³/h	0	180	210	240	270	285	300	315	330	360	390	420	450	
	kW	HP	Q=l/min	0	3000	3500	4000	4500	4750	5000	5250	5500	6000	6500	7000	7500	
360/1A	45	60	H (m)	56,5	46	45	43,5	41,5	40,5	39,5	38,5	37	33,5	29,5	25,5	20,5	8"
360/1B	55	75		63	51	49,5	48	46,5	46	45	44	42,5	39	35,5	31	26	8"
360/1C	75	100		67	52,5	53,5	52	50,5	49,5	49	48	46,5	44	40,5	37	33	8"
360/2A	75	100		102	88	85,5	82	78,5	76	73,5	71	67	59	49,5	39	-	8"
360/2B	92	125		116,5	99,5	97	94	91	89	86,5	84	81	73,5	65	55,5	44	8"
360/2C	110	150		130,5	111	109	106,5	103,5	102	100	98	95	88,5	80,5	71,5	61	8"
360/3A	132	180		171,5	147	143	138	132	128,5	125	120,5	116	105,5	93	78,5	61	10"
360/3B	147	200		182	158	155	151	147	144	141	137,5	133	122	109,5	95	78,5	10"
360/4A	190	260		230	202,5	196,5	189,5	181	176	170,5	164,5	158,5	143,5	126,5	106,5	83	10"
360/5A	220	300		279,5	246	238,5	229,5	218,5	212	205,5	198	189,5	171	148,5	123	93	12"
360/5B	250	340	315,5	267	259	251,5	242,5	237	231	224,5	217,5	200,5	180,5	156	127,5	12"	

### 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											
360/1A-860	TR8	45	60	92	○	●	2146	1270	876	192	298	7"	99	177
360/1B-875	TR8	55	75	109	○	●	2226	1350	876	192	298	7"	99	192
360/1C-8100	TR8	75	100	145	○	●	2466	1590	876	192	298	7"	99	237
360/2A-8100	TR8	75	100	145	○	●	2666	1590	1076	192	298	7"	129	237
360/2B-8125	TR8	92	125	177	○	●	2906	1830	1076	192	298	7"	129	283
360/2C-8150	TR8	110	150	213	○	●	3136	2060	1076	192	298	7"	129	333
360/3A-10180	TR10	132	180	257	○	●	3146	1870	1276	237	298	7"	158	435
360/3B-10200	TR10	147	200	300	○	●	3346	2070	1276	237	298	7"	158	500
360/4A-10260	TR10	190	260	405	○	●	3876	2400	1476	237	298	7"	188	580
360/5A-12300	TR12	220	300	425	○	△	3786	2110	1676	286	298	7"	217	700
360/5B-12340	TR12	250	340	481	○	△	3956	2280	1676	286	298	7"	217	775

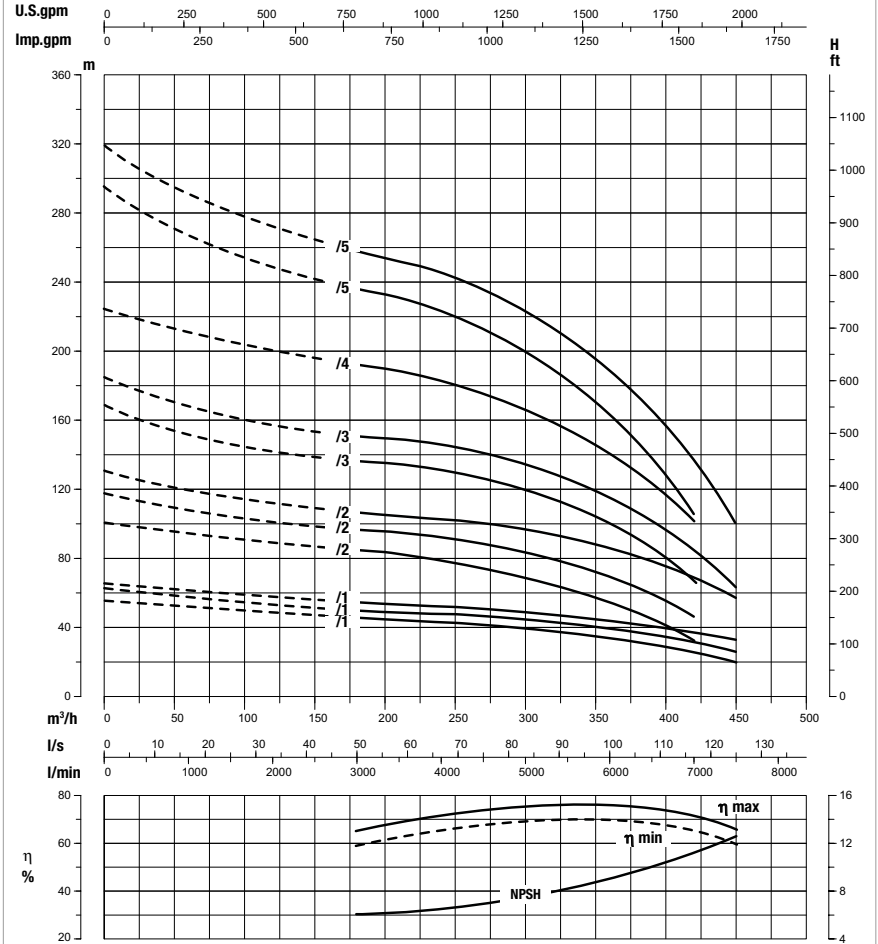
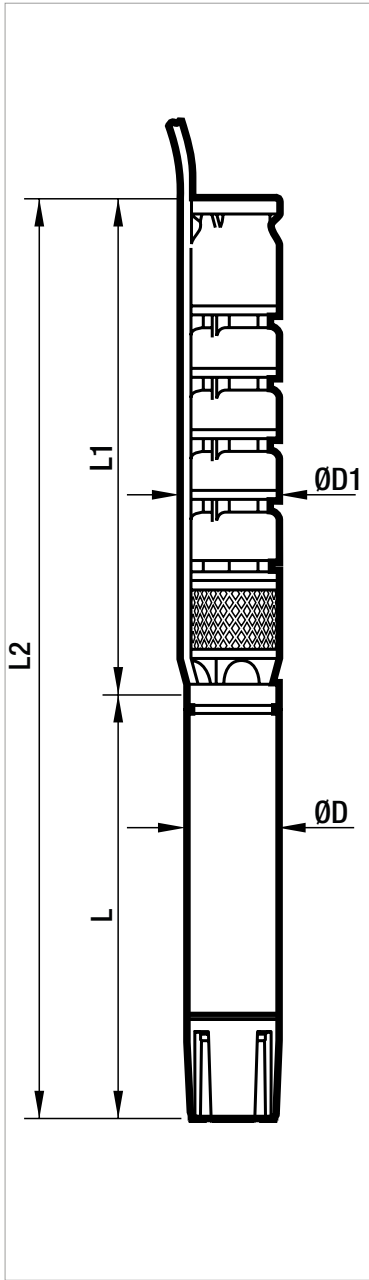
\* **GGF motor:** 6" encapsulated water-gycol-filled motor with stator immersed in thermosetting insulating resin  
**TR motor:** 6" - 12" water-filled rewindable motor

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

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

# SMN12 360

## SUBMERSIBLE PUMPS



Performance at 50 Hz 2 poles. The performance curves are based on kinematic viscosity values = 1 mm<sup>2</sup>/s and density equal to 1000 kg/m<sup>3</sup>. Curve tolerance according to ISO 9906.

# SMN12 420

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	P2 NOMINAL		Q=m³/h	0	210	240	270	300	330	360	390	420	450	480	510	540	
	kW	HP	Q=l/min	0	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	
420/1A	45	60	H (m)	53,5	40,5	39	37,5	36	34	32	30	27,5	25	21,5	18,5	14,5	8"
420/1B	55	75		60	45	44	42,5	41	39,5	38	36	33,5	31	28	24,5	21	8"
420/2A	92	125		104	82	79	76,5	74	70,5	68	64,5	60	55,5	50,5	45	39,5	8"
420/2B	110	150		118	92,5	90	87,5	85,5	83	80	77	73	69	64	59	53	8"
420/3A	132	180		145,5	118	114,5	111	107,5	103,5	99	94	87,5	80,5	73	65	55,5	10"
420/3B	147	200		160	129,5	126	122	118,5	114,5	110	105,5	99,5	93	86	78,5	70,5	10"
420/4A	190	260		199	163	158,5	153,5	149	143,5	137,5	131	123	114,5	105	95	83,5	10"
420/4B	220	300		222	182	177	172	167,5	162	156,5	151	144	136,5	128	118,5	106	12"
420/5A	250	340		258	213	207,5	201,5	195	188,5	181,5	174	165,5	156	145,5	133	117	12"

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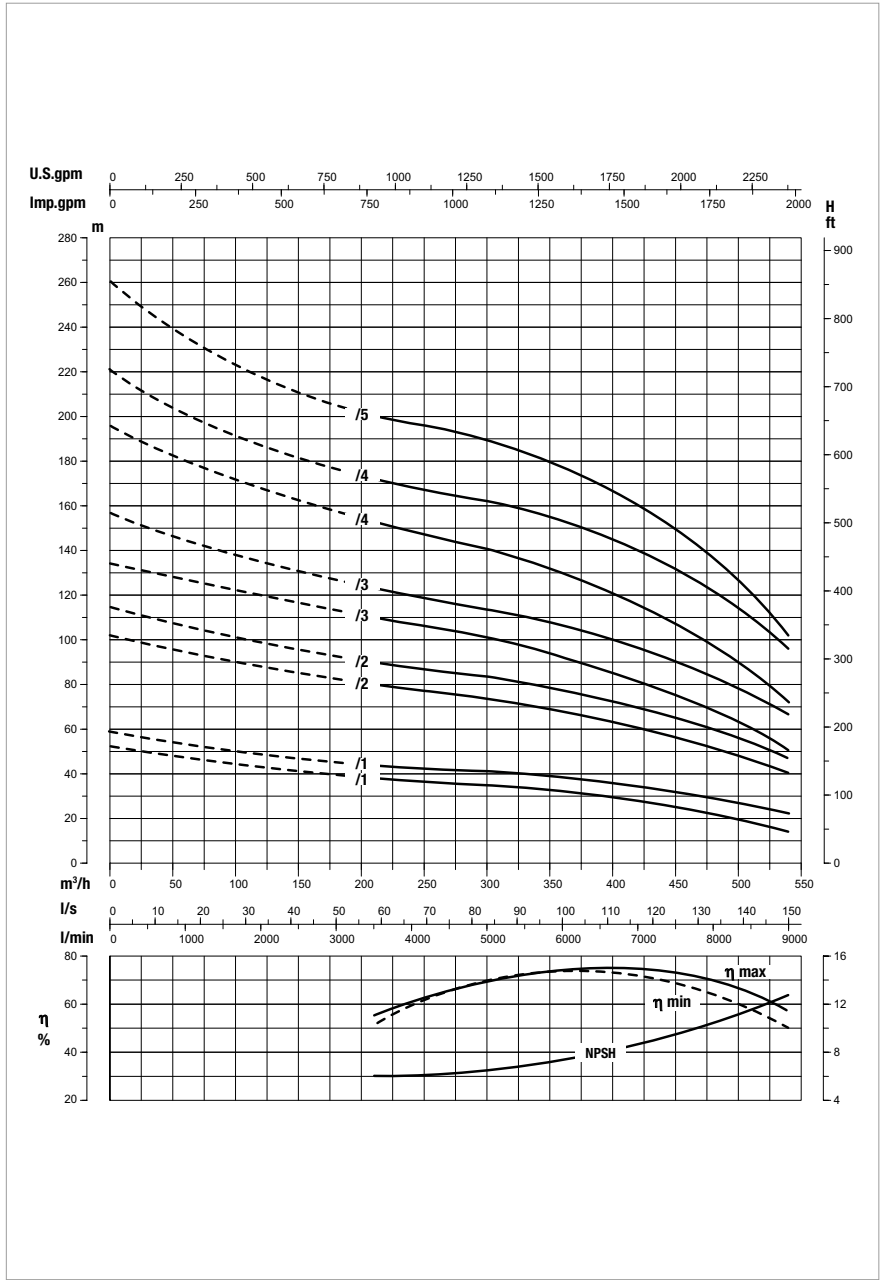
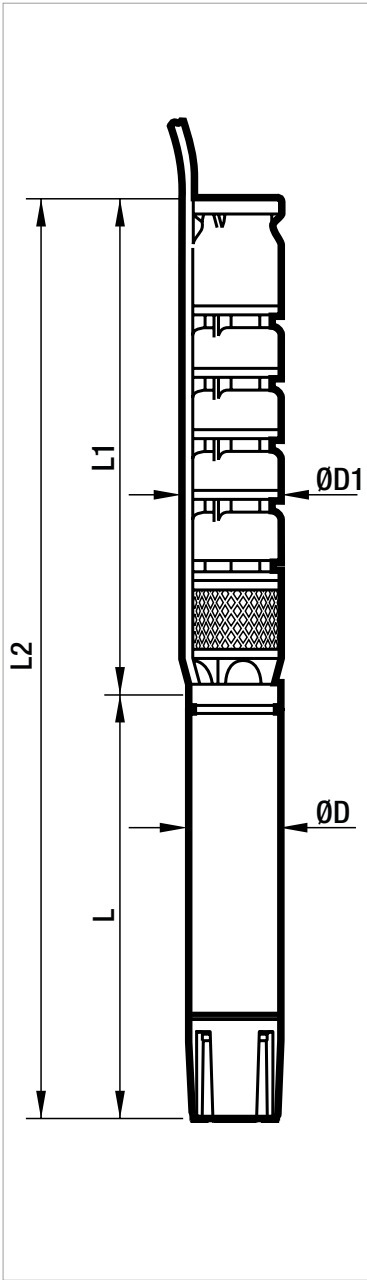
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