SS10A

SUBMERSIBLE PUMPS

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TECHNICAL DATA

Flow rate maximum: up to 290 m^3/h
Head up to: 385 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: 50 g/m^3
Liquid temperature range: from 0°C to +50°C (depending on the motor)
Maximum operating pressure: depending on the motor
Flanges, thread: 6”
Pump maximum diameter: 247 mm
Impeller/s material/i: 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)
Special versions on request: molded AISI 316 stainless steel construction (impellers and pump body) for aggressive water applications, delivery ports with NPT standard

10” semi axial multi-impeller submersible pump in molded AISI 304 or AISI 316 stainless steel, designed for pressurization, lifting water from wells, gardening and irrigation in commercial building service and irrigation also in agriculture. Ideal for installation in wells.

CONSTRUCTION FEATURES OF THE PUMP

Diffusers, impellers, supports, delivery and suction made entirely of pressed AISI 304 stainless steel or AISI 316. Impellers balanced and keyed to the shaft with a conical coupling, specially developed to guarantee: easy assembly, avoid malfunctions due to vibrations during rotation and reduce operating noise. Shaft driven by water lubricated bearings. The diffuser geometry facilitates the expulsion of sand particles with the pumped liquid and limits the infiltration of water between the stage. 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 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

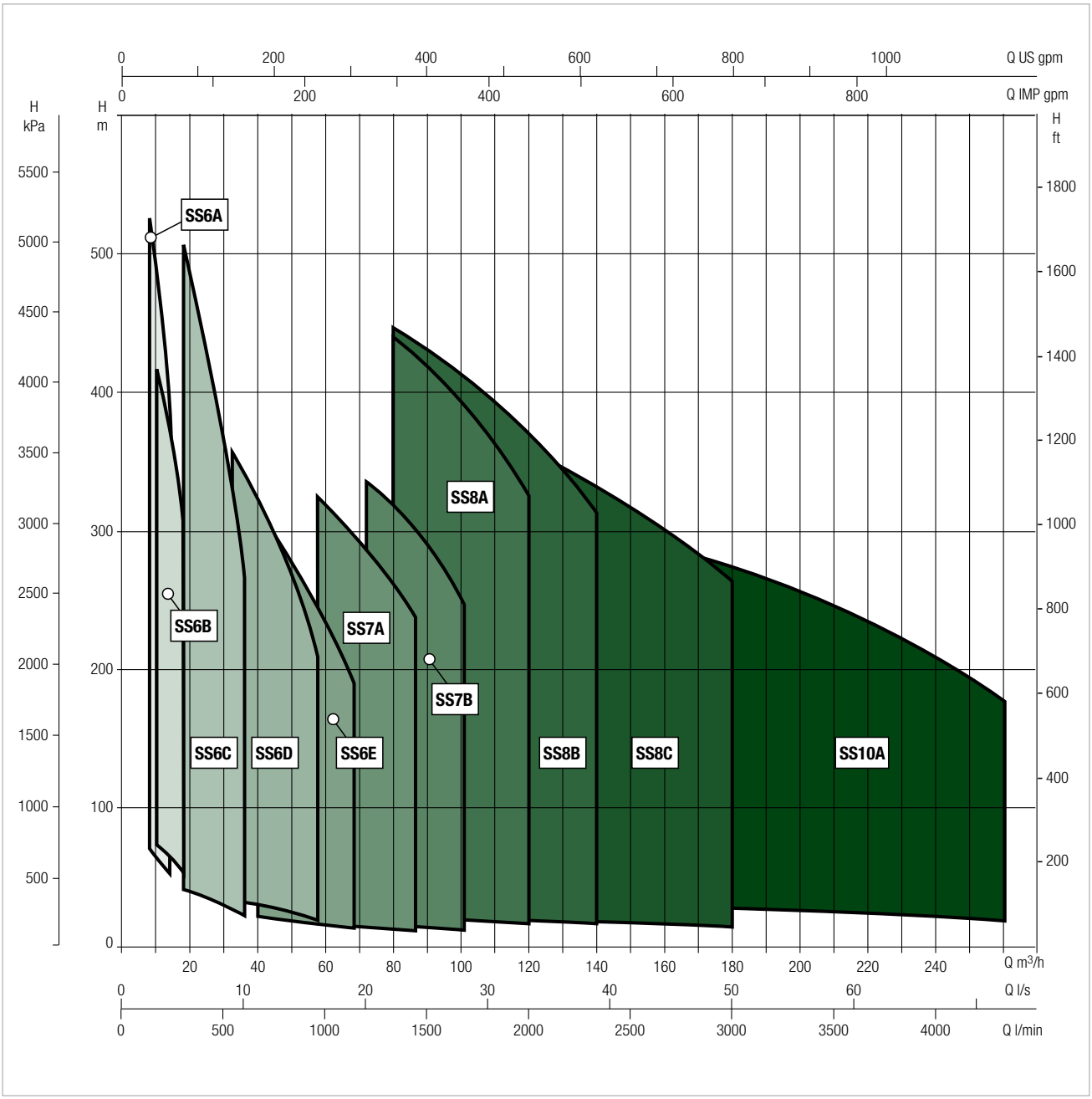
For operation with the variable frequency drive, refer to the specifications of the coupled motor.
For hydraulic systems in AISI 316 stainless steel, we recommend coupling with motors made of AISI 316 or DUPLEX stainless steel (check availability of the selected model).

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.

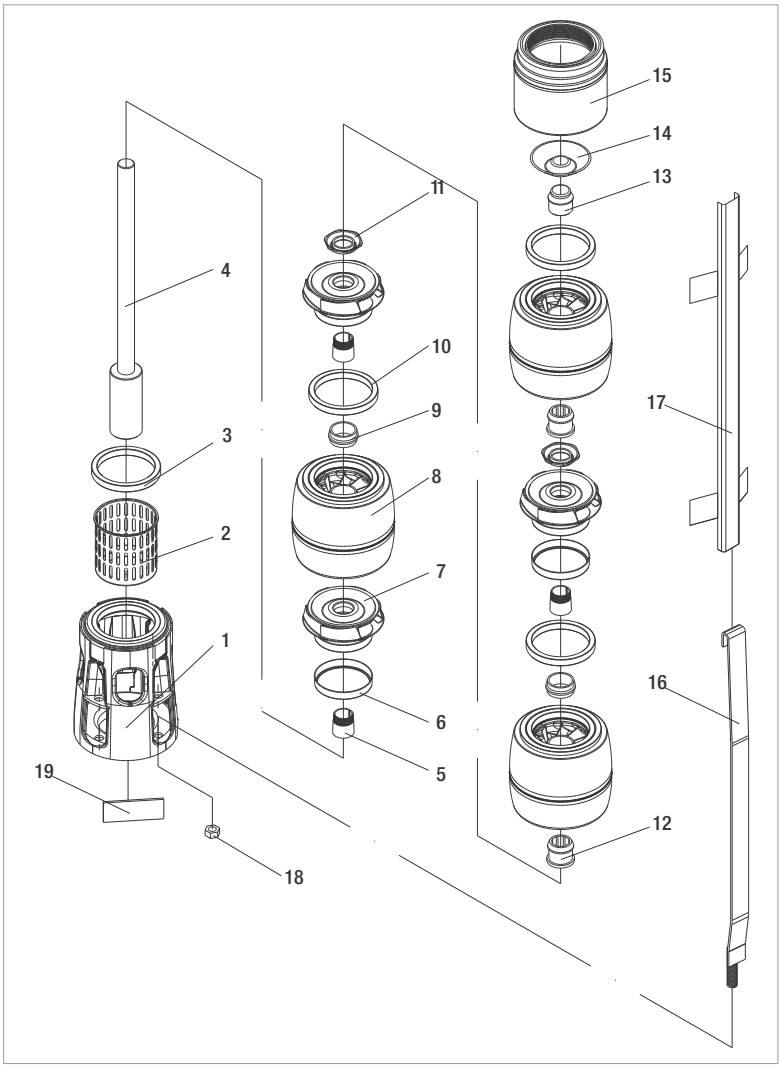
GRAPHIC SELECTION TABLE

50 Hz - 2900 r.p.m.

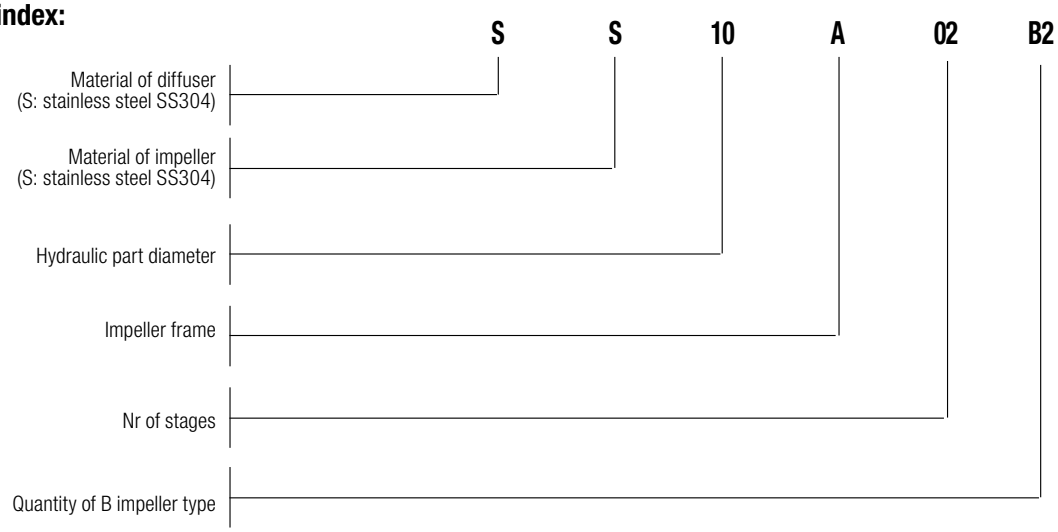


MATERIALS

N.	PARTS	MATERIALS
1	SUCTION CASE	STAINLESS STEEL (AISI 304L)
2	FILTER	STAINLESS STEEL (AISI 304L)
3	SUCTION CASE WEAR RING	BRONZE (ASTM B145-4A)
4	PUMP SHAFT	STAINLESS STEEL (AISI 420)
5	COLLET	STAINLESS STEEL
6	IMPELLER WEAR RING	STAINLESS STEEL (AISI 304)
7	IMPELLER	STAINLESS STEEL (AISI 304L)
8	DIFFUSER	STAINLESS STEEL (AISI 304L)
9	INTERMEDIATE BEARING	RUBBER
10	DIFFUSER WEAR RING	RUBBER
11	NUT FOR STOP RING	STAINLESS STEEL (AISI 304L)
12	BEARING	RUBBER
13	SHAFT STOPPER	BRONZE (ASTM B145-4A)
14	VALVE	STAINLESS STEEL (AISI 304)
15	DISCHARGE CASE	STAINLESS STEEL (AISI 304)
16	TIE ROD	STAINLESS STEEL (AISI 304L)
17	CABLE GUARD	STAINLESS STEEL (AISI 304)
18	TIE ROD NUT	STAINLESS STEEL (AISI 303)
19	NAME PLATE	STAINLESS STEEL (AISI 304)



– Denomination index:
(example)



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PERFORMANCE 50 HZ - 2 POLES

MODEL	ELECTRICAL DATA		HYDRAULIC DATA											STANDARD MOTOR COUPLING
	P2 NOMINAL		Q=m³h	0	50	100	140	180	200	220	240	260	290	
	kW	HP	Q=l/min	0	833,3	1666,6	2333,3	3000	3333,3	3666,6	4000	4333,3	4833,3	
SS10A 01.B1	15	20	H (mt)	29	27	25	22	20	19	18	16	15	11	6"
SS10A 01	18,5	25		39	36	33	30	27	25	24	22	19	15	6"
SS10A 02.B2	30	40		58	54	49	44	40	37	35	32	29	22	6"
SS10A 02	37	50		77	72	66	59	53	50	47	44	39	30	6"
SS10A 03.B3	45	60		87	81	74	66	59	56	53	49	44	34	8"
SS10A 03.B1	55	75		106	99	91	81	73	69	65	60	53	41	8"
SS10A 03	63	85		116	108	99	89	80	75	71	65	58	45	8"
SS10A 04.B2	75	100		135	126	115	103	93	88	82	76	68	53	8"
SS10A 04	75	100		155	145	132	119	106	100	94	87	78	60	8"
SS10A 05	92	125		194	181	165	148	133	125	118	109	97	75	8"
SS10A 06	110	150		232	217	198	178	159	151	141	131	117	91	8"
SS10A 07	132	180		271	253	231	207	186	176	165	152	136	106	10"
SS10A 08	147	200		310	289	264	237	212	201	189	174	156	121	10"
SS10A 09	170	230		349	325	298	267	239	226	212	196	175	136	10"
SS10A 10	190	260		387	362	331	296	265	251	236	218	195	151	10"

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ELECTRICAL DATA AND DIMENSIONS

MODEL	MOTOR *	ELECTRICAL DATA				HORIZONTAL INSTALLATION	L2 mm	L mm	L1 mm	D mm	D1 mm	TOTAL WEIGHT kg
		P2 NOMINAL		In A	OPERATING BY INVERTER							
		kW	HP									
SS10A 01.B1	6GF	15	20	33,4	●	●	1580	786	794	141	247	105
	TR6	15	20	32	○	●	1771	977	794	144	247	121
SS10A 01	6GF	18,5	25	41	●	●	1655	861	794	141	247	113
	TR6	18,5	25	39	○	●	1831	1037	794	144	247	124
SS10A 02.B2	6GF	30	40	61,5	●	●	2021	1051	970	141	247	144
	TR6	30	40	65	○	●	2162	1192	970	144	247	165
SS10A 02	6GF	37	50	79,3	●	●	2151	1181	970	141	247	157
	TR6	37	50	80	○	●	2262	1292	970	144	247	168
SS10A 03.B3	TR8	45	60	92	○	●	2417	1270	1147	192	247	243
SS10A 03.B1	TR8	55	75	109	○	●	2497	1350	1147	192	247	258
SS10A 03	TR8	63	85	126	○	●	2637	1490	1147	192	247	284
SS10A 04.B2	TR8	75	100	145	○	●	2913	1590	1323	192	247	313
SS10A 04	TR8	75	100	145	○	●	2913	1590	1323	192	247	313
SS10A 05	TR8	92	125	177	○	●	3329	1830	1499	192	247	370
SS10A 06	TR8	110	150	213	○	●	3735	2060	1675	192	247	431
SS10A 07	TR10	132	180	257	○	●	3721	1870	1851	237	247	544
SS10A 08	TR10	147	200	300	○	●	4098	2070	2028	237	247	619
SS10A 09	TR10	170	230	348	○	●	4424	2220	2204	237	247	670
SS10A 10	TR10	190	260	405	○	●	4780	2400	2380	237	247	721

*** 6GF motor:** 6" encapsulated water-gycol-filled motor with stator immersed in thermosetting insulating resin
TR motor: 6-8-10" water-filled rewindable motor

●	Allowed
○	Only PE2 + PA version

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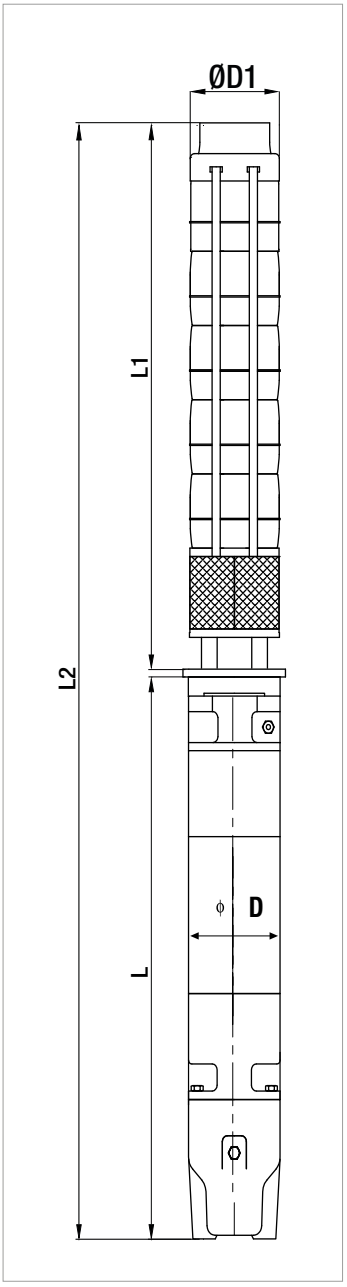

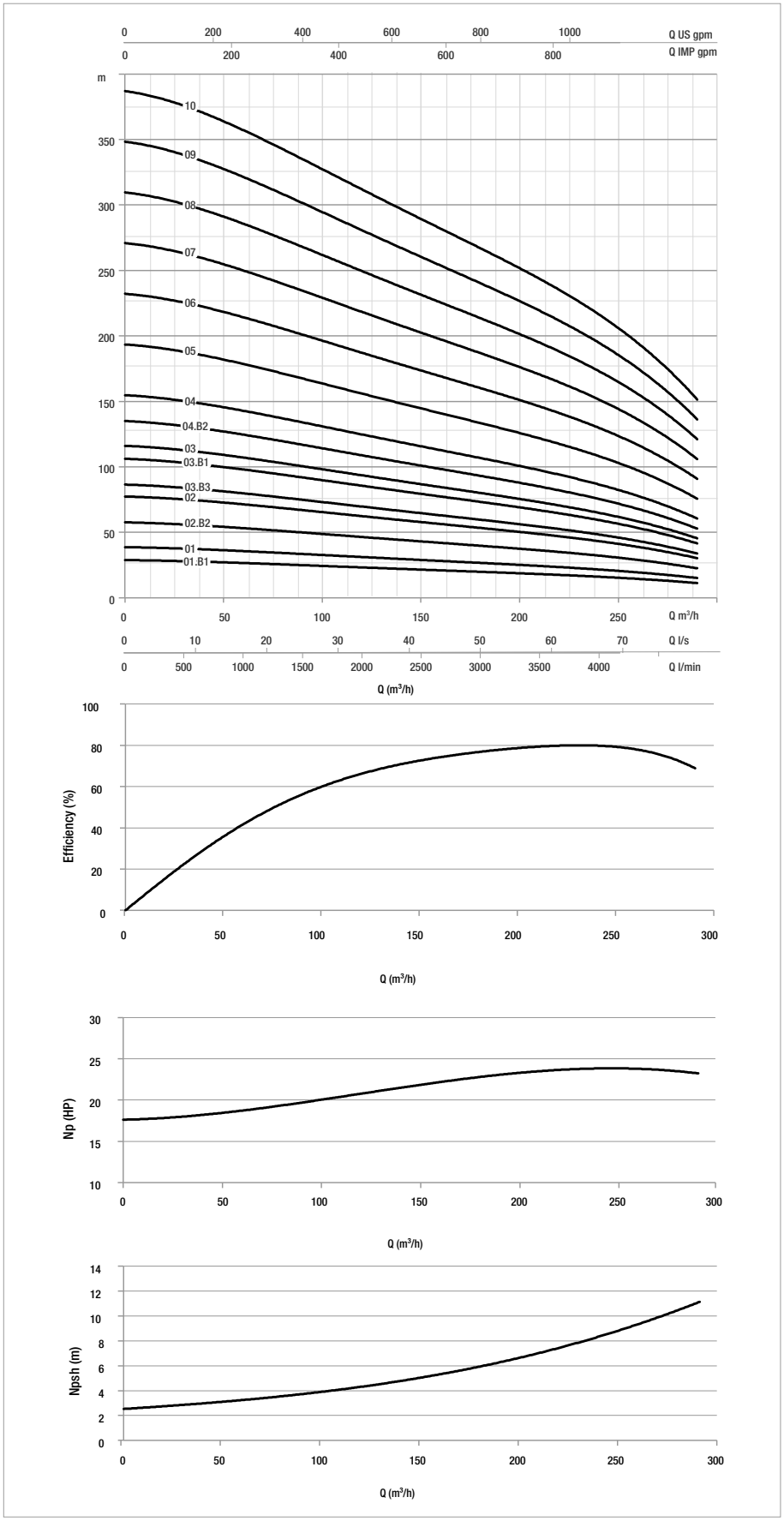

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