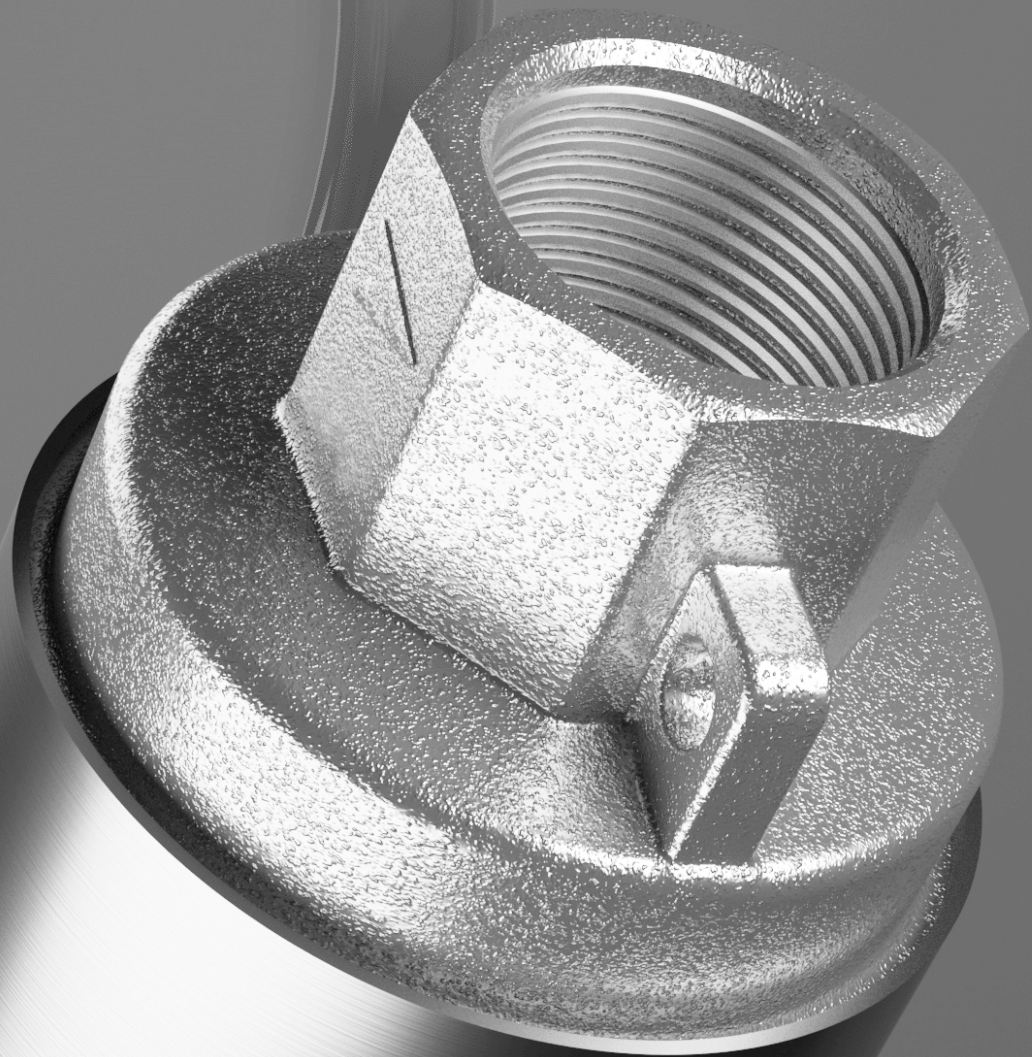


S4 60Hz

4" SUBMERSIBLE ELECTRIC PUMPS



**TECHNICAL DATA****Flow rate:** up to 120 GPM**Head up to:** 1500 feet**Maximum immersion depth:** 4GG - 4TW: 984 feet**Type of pumped liquid:** Clean, free of solids and abrasive substances, non-viscous, non-aggressive, non-crystallized and chemically neutral**Sand quantity:** 5.42 lb/in³**Liquid temperature:** From +32°F to +104°F**Output connection:**

S4 5-25: 1" 1/4 NPT

S4 35-90: 2" NPT

Pump maximum diameter: 3.9 inches**Impeller/s material:** Technopolymer**Maximum number of starts:** 20/hour**Protection class:** IP68**Motor insulation class:** F**Single phase power input:** 1x115 V 60Hz / 1x230 V 60 Hz**Three phase power input:** 3x230 V 60 Hz / 3x460 V 60 Hz**Possible type of installation:** Fixed in vertical position. Horizontal installation is possible, it is recommended to install a cooling sleeve**Special versions on request:** Different voltages, different cable lengths, version with 4GX**Certification:** Pump end NSF61 certificate is pending approval.

4GG - 4TW motor: CSA approved

4" multi-impeller borehole pumps for clean water, designed for water boosting, gardening and irrigation, lifting water from boreholes in residential building service, commercial building service and irrigation systems also for agriculture. The S4 pumps must be installed in wells with a diameter of at least 4", or in tanks or cisterns and it increases the pressure of water that can then be used for example to water medium or large gardens or (in the case of models with a greater flow and head) in irrigation systems in agriculture.

Available as standard:

- Only pump end
- Pump body with water-filled motor 2WIRE
- Pump body with water-filled motor 3WIRE

CONSTRUCTION FEATURES OF THE PUMP

Technopolymer impellers housed with stainless steel adjustment rings. Pump liner, shaft, coupling with motor, integrated suction filter and cable guard are in stainless steel. Suction and delivery supports in micro-cast AISI 304 stainless steel. Removable built-in non-return valve in technopolymer or with stainless steel plate (depending on model, see the material table). Technopolymer impellers designed to ensure high levels of efficiency in accordance with PEI Directive starting from 25 GPM. NSF61 certificate is pending approval.

CONSTRUCTION FEATURES OF THE MOTOR

Pump can be coupled with 4" motors : 4GG, 4TW and 4GX.

4GG motors line includes single phase and three phase motors from 0.5 HP to 10 HP. 4TW is a single phase, 2 wire line from 0.5 HP to 1.5 HP. They are built based on resin canned stator technology. 4GG and 4GX single phase motors have to be installed with a control box, 4CBUS line sold separately, in the three-phase version the protection must be guaranteed by the user.

4TW motors are operated without starting control box, based on 2 wire technology with internal capacitor and thermal protector.

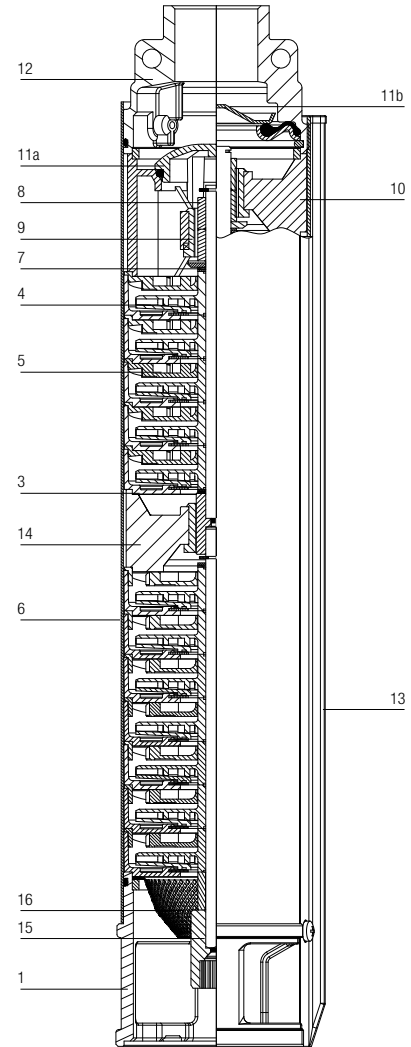
All parts in contact with water of 4GG and 4TW made in SS304, 4GX in full SS316.

All motors come with CSA approval, NSF61 is pending in process.

Suitable for use with Variable Speed Drive (30-60 Hz).

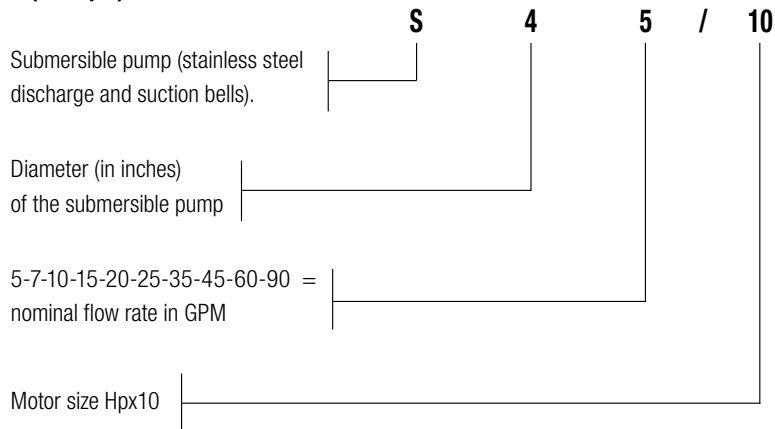
MATERIALS

N°	PART*	MATERIALS	
1	SUCTION	PRECISION CAST STEEL AISI 304	
2	SCREWS	STAINLESS STEEL AISI 304	
3	STAGE HOUSING	S4 5 UP TO 1.5HP	TECHNOPOLYMER + STAINLESS STEEL WEAR RING
		S4 7 UP TO 2HP	
		S4 10÷90 UP TO 3HP	STAINLESS STEEL AISI 304
		S4 5/20	
		S4 7/30	
	S4 10÷90 ABOVE 3 HP		
4	IMPELLER	TECHNOPOLYMER	
5	DIFFUSER	TECHNOPOLYMER	
6	OUTER SLEEVE	STAINLESS STEEL AISI 304	
7	THRUST BEARING	STAINLESS STEEL AISI 304	
8	SHAFT SLEEVE	STAINLESS STEEL AISI 304	
9	BUSH BEARING	RUBBER TPU	
10	UPPER SUPPORT	TECHNOPOLYMER	
11a	NON-RETURN VALVE	S4 5÷25	TECHNOPOLYMER(POPET VERSION)
		S4 35÷90 UP TO 3HP	TECHNOPOLYMER
11b		S4 35÷90 ABOVE 3HP	STAINLESS STEEL AISI 304 + RUBBER NBR
12	DISCHARGE	PRECISION CAST STEEL AISI 304	
13	CABLE SHEATH	STAINLESS STEEL AISI 304	
14	INTERMEDIATE SHAFT SLEEVE	STAINLESS STEEL AISI 304	
15	SHAFT WITH COUPLING	STAINLESS STEEL AISI 304	
16	FILTER	STAINLESS STEEL AISI 304	



* In contact with the liquid.

– Denomination index: (example)



ELECTRICAL DATA AND DIMENSIONS

4" SUBMERSIBLE ELECTRIC PUMPS

MODEL	P2 hp	STAGES	LENGTH inch	GROSS WEIGHT lbs	DISCHARGE SIZE npt	ASSEMBLED VERSION	MOTOR TYPE	VOLTAGE
S4 5/05	0.5	11	15.8	7.3	1" 1/4		NO MOTOR	-
			29.3	28.5		YES*	4TW 2W	115
			26.3	26.7		YES*	4GG 3W	
			28.9	28.3		YES*	4TW 2W	230
			26.3	26.7		YES*	4GG 3W	
S4 5/07	0.75	15	18.5	8.6	1" 1/4		NO MOTOR	-
			32.3	31.9		YES*	4TW 2W	230
			29.8	30.0		YES*	4GG 3W	
S4 5/10	1	18	20.7	9.7	1" 1/4		NO MOTOR	-
			37.5	38.4		YES*	4TW 2W	230
			34.3	37.6		YES*	4GG 3W	
S4 5/15	1.5	25	25.5	11.7	1" 1/4		NO MOTOR	-
			44.1	44.3		YES*	4TW 2W	230
			40.9	44.1		YES*	4GG 3W	
S4 5/20	2	31	25.9	16.3	1" 1/4		NO MOTOR	-

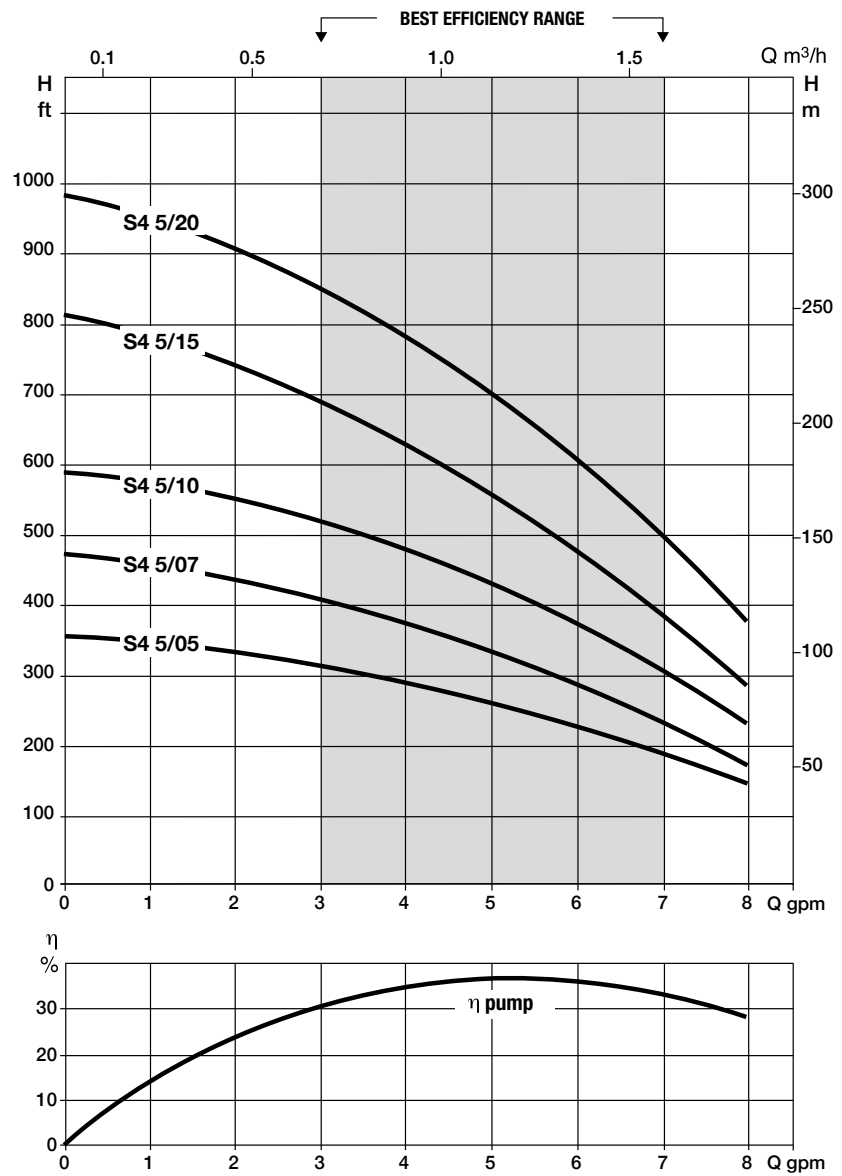
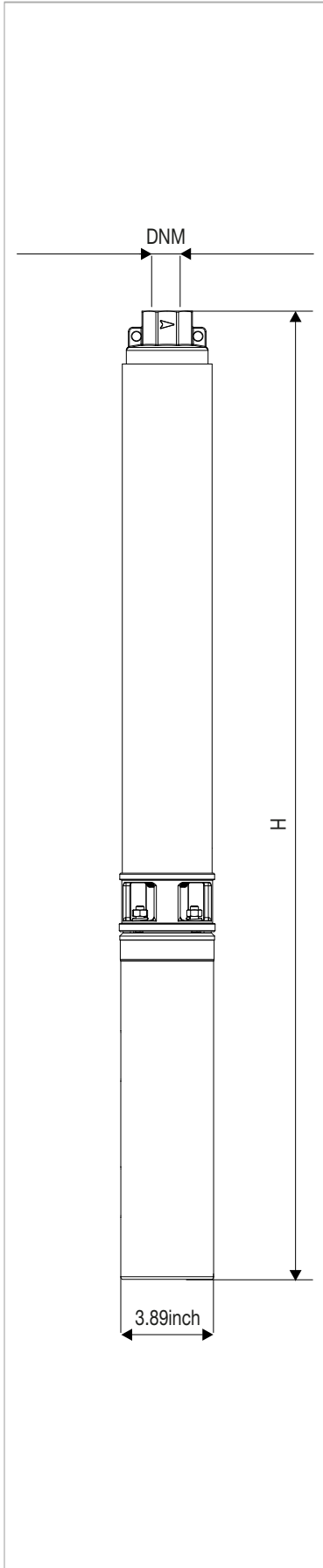
* assembled version available with canned motor 4GG and 4TW

PUMP MODEL	HP	PSI	Depth to pumping water in feet																				Shut-Off (ft)		
			20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	480	500	600	700	800		900	1000
S4 5/05	1/2	0																							
		20					8	7.5	7	6.5	6	5	4	3.5	1										
		30				8	7.5	7	6	6	5	4.5	3	2											
		40			8	7.5	7	6.5	6	5	4.5	4													
		50	7.5	7	6.5	6	5.5	5	4	3.5	2.5														
		60	7	7	6.5	6	5.5	4.5	4	3.5															
	80	6.5	6	5.5	5	4	3.5																		
	Shut-off PSI	146	137	129	120	111	103	94	85	77	68	51	42	25										153	
S4 5/07	3/4	0																							
		20								7.5	7.5	7	6.5	6	5.5	4.5	3.5	2							
		30								7.5	7	7	6.5	6	5.5	5	3.5	2.5							
		40								7	7	7	6.5	6	5.5	5	4	3.5	2						
		50				7	7	6.5	6.5	6	5	5	4	3.5	3										
		60			7	7	6.5	6.5	6	5	5	4.5	3.5	3											
	80	7	7	6.5	6	6	5.5	5	4.5	4	3.5	3													
	Shut-off PSI	195	186	177	169	160	151	143	134	125	117	99	91	73	47	30							203		
S4 5/10	1	0																							
		20													7.5	7	6	5.5	4	3.5					
		30													7	7	6.5	5.5	4.5	3	2				
		40													7	7	6.5	6.5	6	5	4	2.5			
		50													7	7	6.5	6.5	5.5	4.5	3.5				
		60													7	7	6.5	6	5.5	5	4	3			
	80													7	7	6.5	6	5.5	5	3.5	2.5				
	Shut-off PSI	245	236	227	219	210	202	193	184	176	167	150	141	124	98	80	46	37					253		
S4 5/15	1.5	0																							
		20																							
		30														7	6.5	6	5.5	5	4	2			
		40														7	7	6.5	6	5.5	4.5	3.5	1.5		
		50														7	7	6.5	6	5.5	4.5	3			
		60														7	7	6.5	6.5	6	5.5	5	4	2.5	
	80														7	7	6.5	6.5	6	5.5	5	4	2.5		
	Shut-off PSI	342	333	325	316	307	299	290	281	273	264	247	238	221	195	177	143	134	91	47	4		350		
S4 5/20	2	0																							
		20																							
		30																							
		40																							
		50																							
		60																							
	80																								
	Shut-off PSI	419	410	401	393	384	375	367	358	349	341	323	315	297	271	254	219	211	168	124	81	38	427		

NOTE: performances shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

S45

4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

ELECTRICAL DATA AND DIMENSIONS

4" SUBMERSIBLE ELECTRIC PUMPS

MODEL	P2 hp	STAGES	LENGTH inch	GROSS WEIGHT lbs	DISCHARGE SIZE npt	ASSEMBLED VERSION	MOTOR TYPE	VOLTAGE
S4 7/05	0.5	8	15.6	6.0	1" 1/4		NO MOTOR	-
			29.0	27.2		YES*	4TW 2W	115
			26.1	25.4		YES*	4GG 3W	
			28.6	27.0		YES*	4TW 2W	230
			26.1	25.4		YES*	4GG 3W	
S4 7/07	0.75	11	18.4	7.3	1" 1/4		NO MOTOR	-
			32.2	30.5		YES*	4TW 2W	230
			29.7	28.7		YES*	4GG 3W	
S4 7/10	1	14	21.2	8.2	1" 1/4		NO MOTOR	-
			37.9	36.8		YES*	4TW 2W	230
			34.8	36.0		YES*	4GG 3W	
S4 7/15	1.5	19	25.8	9.9	1" 1/4		NO MOTOR	-
			44.4	42.5		YES*	4TW 2W	230
			41.2	42.3		YES*	4GG 3W	
S4 7/20	2	24	30.4	11.2	1" 1/4		NO MOTOR	-
S4 7/30	3	33	33.8	17.2	1" 1/4		NO MOTOR	-

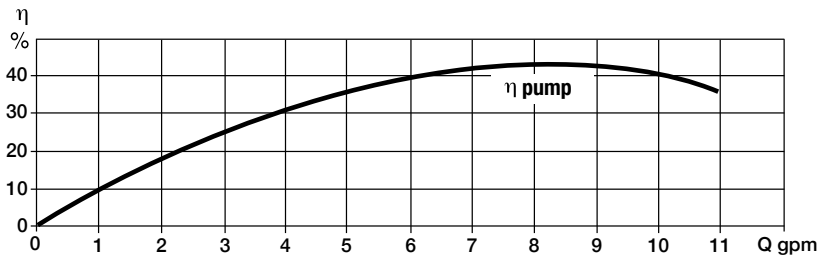
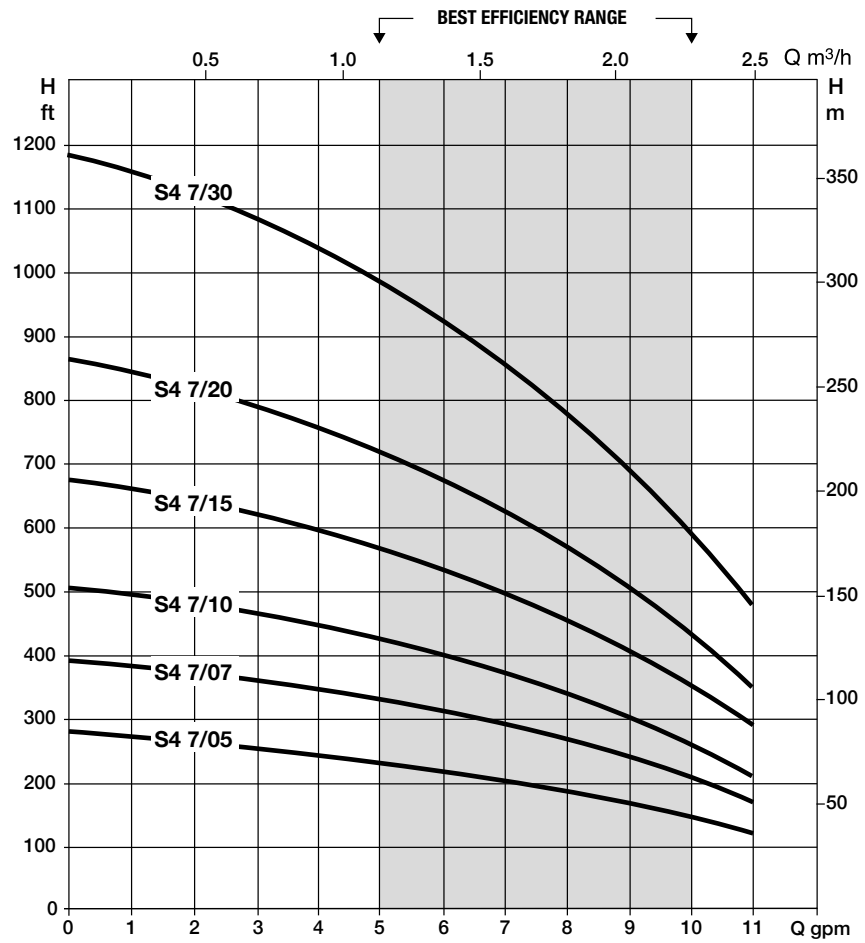
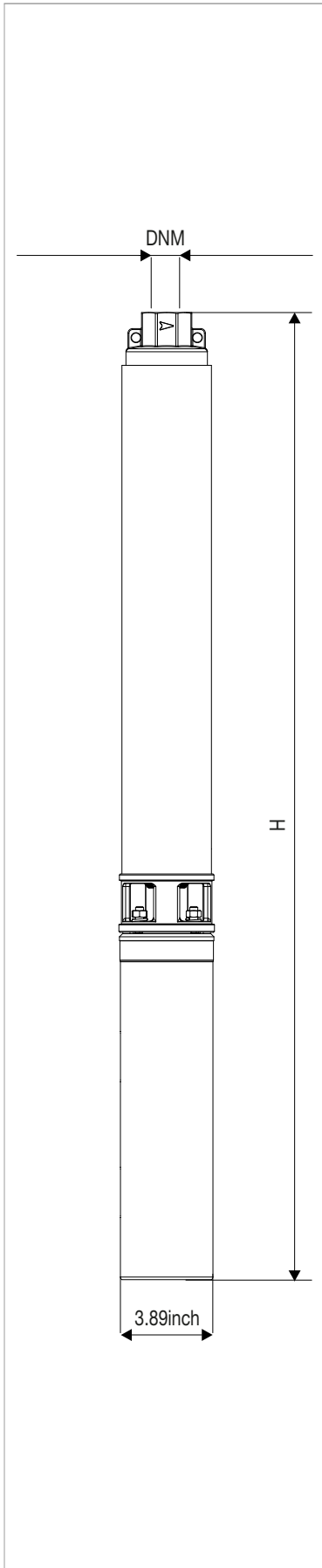
PUMP MODEL	HP	PSI	Depth to pumping water in feet																		Shut-Off (ft)								
			20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	480	500	600		700	800	900	1000				
S4 7/05	1/2	0					11	10	10	9	8	7	5	3															
		20				10	9	9	8	7	5	3																	
		30			10	9	8	7	7	6	3																		
		40		10	9	8	7	7	5	3																			
		50	10	9	8	7	5	3																					
		60	9	8	7	6	4																						
		80	7	6	5																								
	Shut-off PSI	114	105	97	88	79	71	62	53	45	36	19	10											123					
S4 7/07	3/4	0							11	10	10	10	8	7	6	3													
		20						10	10	10	9	8	7	6	3														
		30						10	10	9	9	8	7	6	4	2													
		40				10	10	9	9	8	7	7	3.5																
		50			10	10	9	8	7	7	6	5	3																
		60		10	10	9	8	7	7	6	5	4																	
		80	10	9	8	8	7	6	5	4	3																		
	Shut-off PSI	160	151	143	134	125	117	108	99	91	82	65	56	39	13									169					
S4 7/10	1	0								11	10	10	9	9	7	6	2												
		20								10	10	10	9	9	7	6	3												
		30								10	10	9	9	8	6	5	2												
		40						10	10	10	9	9	7	7	6	3													
		50						10	10	9	9	9	8	7	6	5													
		60				10	10	9	9	9	8	7	6	6	4														
		80			10	10	9	9	8	7	7	6	5	3															
	Shut-off PSI	209	200	191	183	174	165	157	148	139	131	113	105	87	62	44	10							217					
S4 7/15	1.5	0											11	10	10	9	9	7	4										
		20											11	10	10	9	9	8	6	5									
		30										10	10	10	9	9	8	7	5	4									
		40										10	10	10	9	9	8	7	4	3									
		50									10	10	10	10	9	9	8	7	6	4	3								
		60								10	10	10	10	9	9	8	8	7	6	3									
		80						10	10	10	10	9	9	8	8	7	5	4											
	Shut-off PSI	283	274	265	257	248	239	231	222	213	205	187	179	161	135	118	83	75	31					291					
S4 7/20	2	0														11	10	9	9	7	5	2							
		20															11	10	9	8	8	6	4						
		30															11	10	9	9	8	7	4						
		40														11	10	10	9	9	7	7	5	3					
		50														11	10	10	9	9	8	7	5	2					
		60														11	10	10	10	9	8	7	6	4					
		80														11	10	10	10	9	9	8	7	6					
	Shut-off PSI	364	356	347	338	330	321	312	304	295	286	269	261	243	217	200	165	157	113	70	27			373					
S4 7/30	3	0															10	10	10	9	8	7	6	4					
		20																10	10	10	10	9	8	7	5				
		30																	10	10	10	10	9	8	7	5			
		40																		10	10	10	10	9	8	7	5		
		50																			10	10	10	10	9	8	7	5	
		60																				10	10	10	10	9	8	7	5
		80																					10	10	10	10	9	8	7
	Shut-off PSI	504	496	487	478	470	461	452	444	435	426	409	400	383	357	340	305	297	253	210	167	123	80		513				

* assembled version available with canned motor 4GG and 4TW
 NOTE: performances shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.



S47

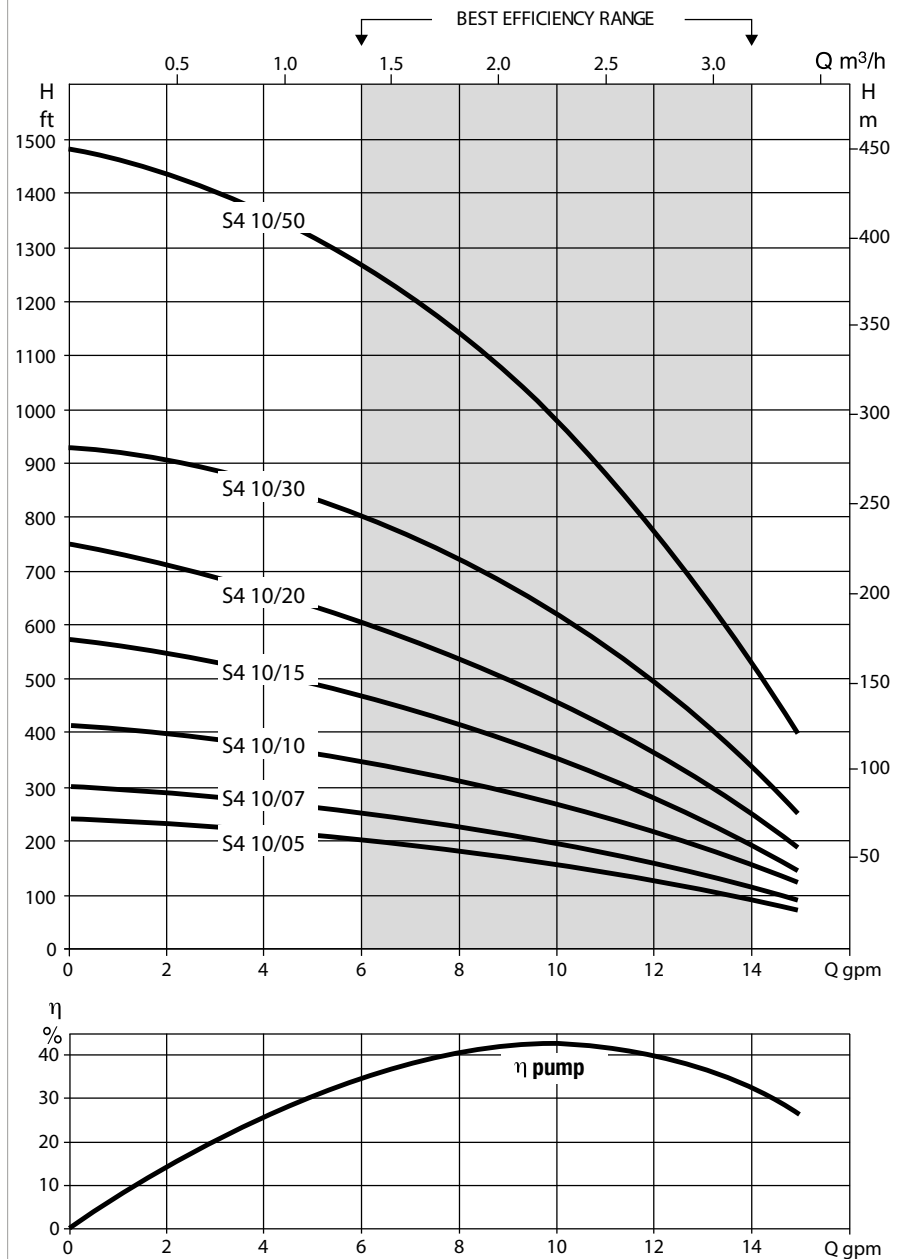
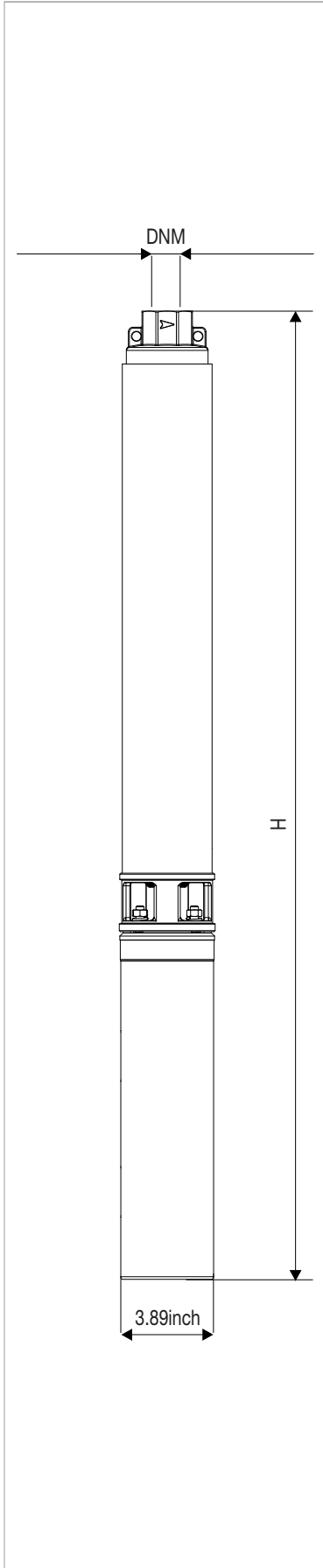
4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

S4 10

4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

ELECTRICAL DATA AND DIMENSIONS

4" SUBMERSIBLE ELECTRIC PUMPS

MODEL	P2 hp	STAGES	LENGTH inch	GROSS WEIGHT lbs	DISCHARGE SIZE npt	ASSEMBLED VERSION	MOTOR TYPE	VOLTAGE
S4 15/05	0.5	5	13.7	6.0	1" 1/4		NO MOTOR	-
			27.1	27.2		YES*	4TW 2W	115
			24.2	25.4		YES*	4GG 3W	
			26.7	27.0		YES*	4TW 2W	230
			24.2	25.4		YES*	4GG 3W	
S4 15/07	0.75	7	15.9	6.6	1" 1/4		NO MOTOR	-
			29.7	29.9		YES*	4TW 2W	230
			27.1	28.0		YES*	4GG 3W	
S4 15/10	1	9	18.1	7.5	1" 1/4		NO MOTOR	-
			34.8	36.2		YES*	4TW 2W	230
			31.7	35.4		YES*	4GG 3W	
S4 15/15	1.5	12	21.4	8.6	1" 1/4		NO MOTOR	-
			39.9	41.2		YES*	4TW 2W	230
			36.8	41.0		YES*	4GG 3W	
S4 15/20	2	16	25.7	10.4	1" 1/4		NO MOTOR	-
S4 15/30	3	23	33.4	14.1	1" 1/4		NO MOTOR	-
S4 15/50	5	36	42.8	20.5	1" 1/4		NO MOTOR	-

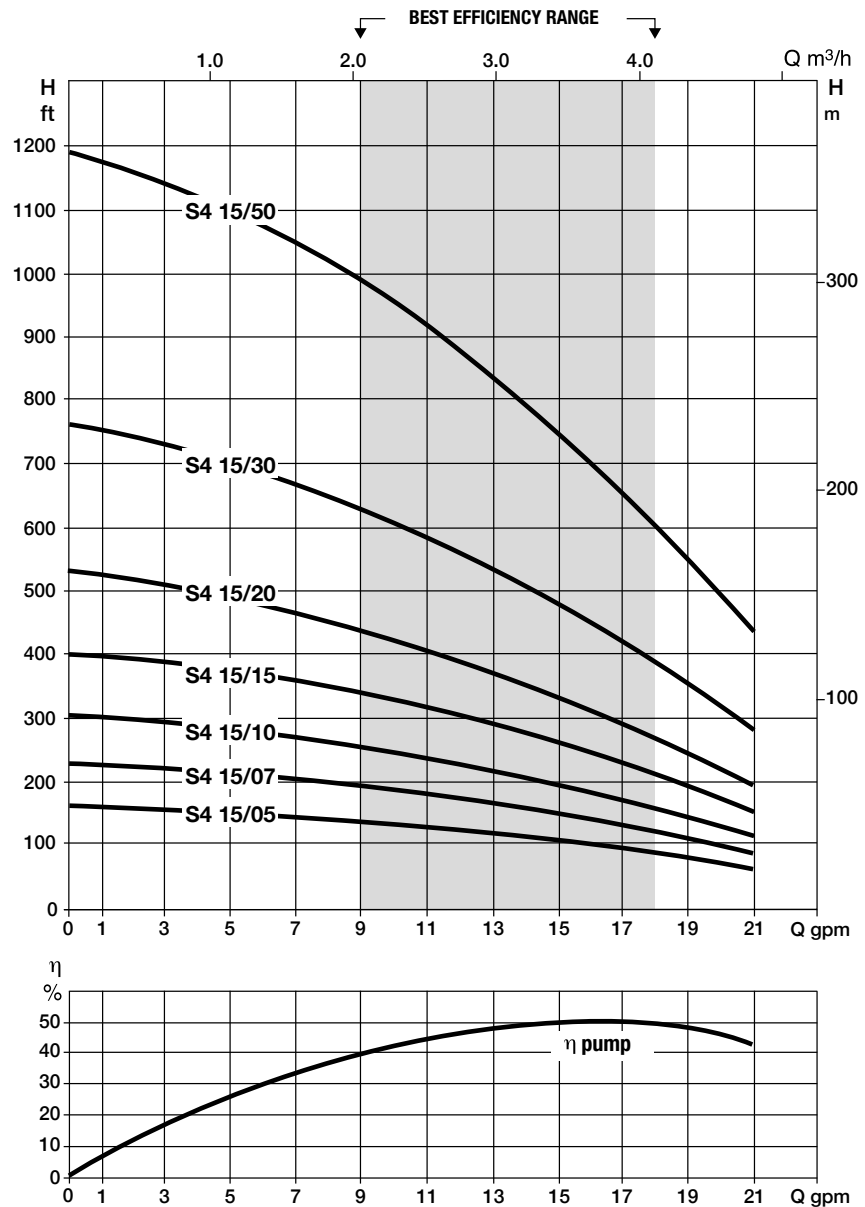
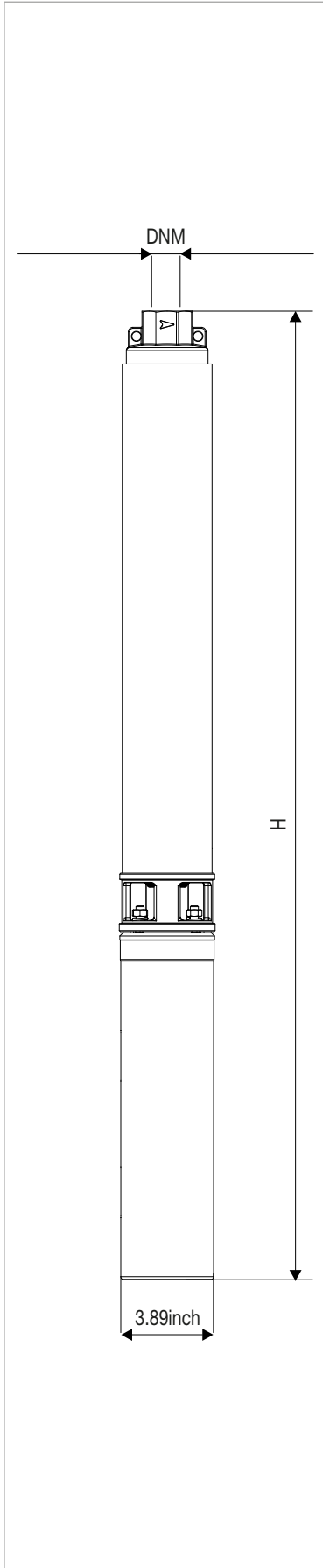
PUMP MODEL	HP	Depth to pumping water in feet																				Shut-Off (ft)									
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	480	500	600	700	800		900	1000	1100	1200					
S4 15/05	1/2	0			21	19	16	13	9																	163					
		46		18	15	11	7																								
		69	17	14	10	5																									
		92	14	10	5																										
		116	9	4																											
		139																													
		185																													
		Shut-off PSI	62	53	45	36	27	19	10																						
S4 15/07	3/4	0				21	20	18	16	13	11	8														229					
		46			19	17	15	13	10	6																					
		69		19	17	15	12	10	5																						
		92	19	17	15	12	10	5																							
		116	17	14	12	9	4																								
		139	13	11	8	3																									
		185	8	3																											
		Shut-off PSI	90	82	73	64	56	47	38	30	21	12																			
S4 15/10	1	0					19	18	16	14	10	8														301					
		46					19	18	16	14	13	10	5																		
		69					18	17	15	13	11	9	7																		
		92			18	17	15	14	11	9	6	3																			
		116		18	17	15	12	10	8	5																					
		139	18	16	14	12	10	7	4																						
		185	14	13	11	7	4																								
		Shut-off PSI	122	113	104	96	87	78	70	61	52	44	26	18																	
S4 15/15	1.5	0						21	20	19	19	16	14	12	7	6										401					
		46						21	20	19	18	17	16	13	12	7															
		69						21	20	19	18	16	15	14	11	9	5														
		92				21	20	19	18	16	15	14	13	9	8																
		116		21	19	19	17	16	14	13	12	10	6	3																	
		139	20	19	18	17	16	14	13	12	11	8																			
		185	18	17	16	15	13	12	10	9	6																				
		Shut-off PSI	165	156	148	139	131	122	113	105	96	87	70	61	44	18															
S4 15/20	2	0									21	19	18	16	13	11	5	3								531					
		46									20	19	17	16	14	11	8														
		69									20	19	18	16	15	12	9	5													
		92									20	19	17	17	15	14	11	8	4												
		116									20	19	18	17	16	15	13	12	10	5											
		139									20	19	18	17	16	15	14	12	11	8	3										
		185								19	18	17	16	15	14	13	12	9	8	3											
		Shut-off PSI	221	212	204	195	187	178	169	161	152	143	126	117	100	74	57	22	13												
S4 15/30	3	0											21	21	20	18	17	14	14	10	4				763						
		46											21	20	20	19	17	16	13	12	8										
		69											21	21	20	19	18	16	15	12	11	6									
		92											21	21	20	19	19	18	16	14	11	10									
		116											21	20	20	19	18	18	16	14	13	10	9								
		139											21	20	20	19	19	18	17	16	14	12	9	8							
		185									20	20	19	19	18	17	16	14	12	10	6										
		Shut-off PSI	322	313	304	296	287	278	270	261	252	244	226	218	200	174	157	123	114	71	27										
S4 15/50	5	0																	21	20	20	18	16	13	11	8	4	1194			
		46																	21	20	19	18	17	15	12	9	6				
		69																	21	21	20	19	18	16	14	11	9		5		
		92																	21	21	20	20	18	18	16	14	11		8	5	
		116																	21	21	21	20	19	18	17	15	13		10	7	
		139																	21	21	21	20	20	18	17	15	12		10	6	
		185															21	21	20	20	19	18	17	16	14	11	8	5			
		Shut-off PSI	508	500	491	482	474	465	456	448	439	430	413	405	387	361	344	309	301	257	214	171	127	84	41						

* assembled version available with canned motor 4GG and 4TW
 NOTE: performances shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.



S4 15

4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

ELECTRICAL DATA AND DIMENSIONS

4" SUBMERSIBLE ELECTRIC PUMPS

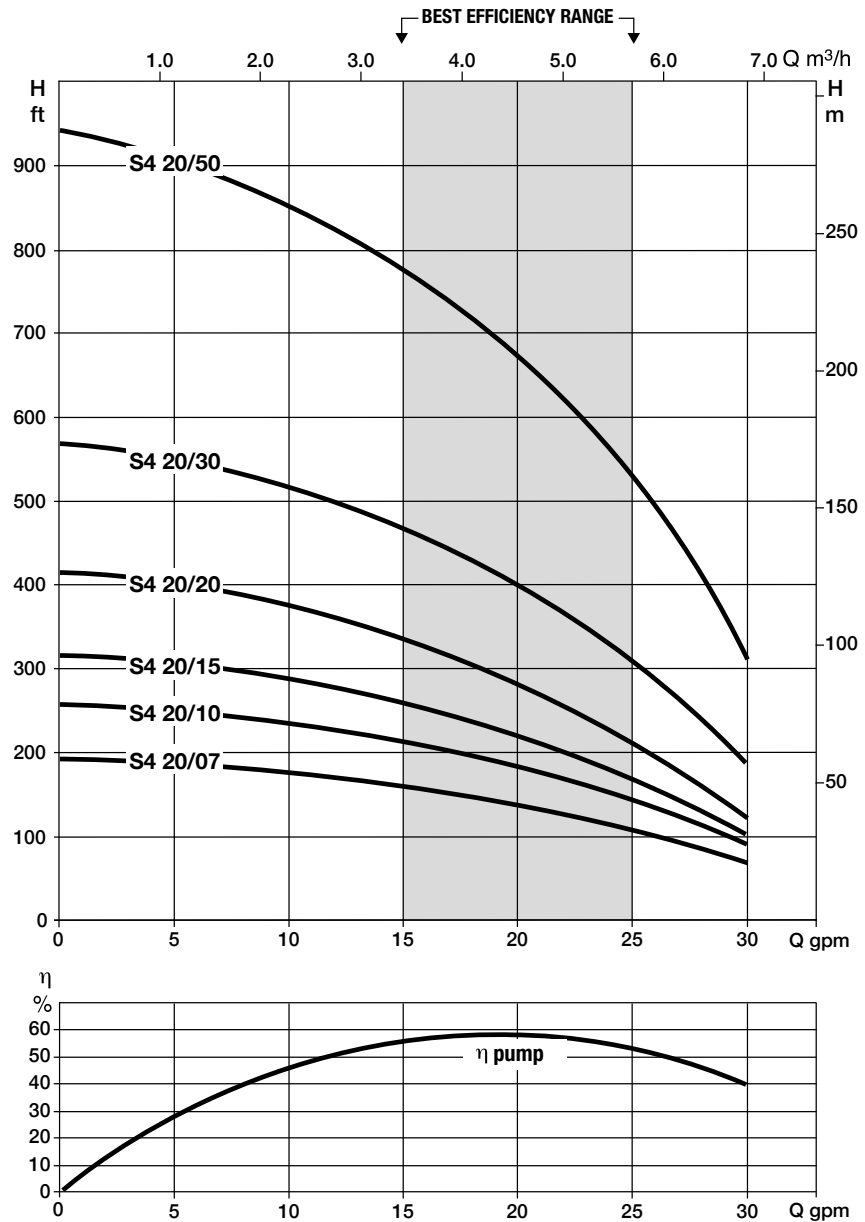
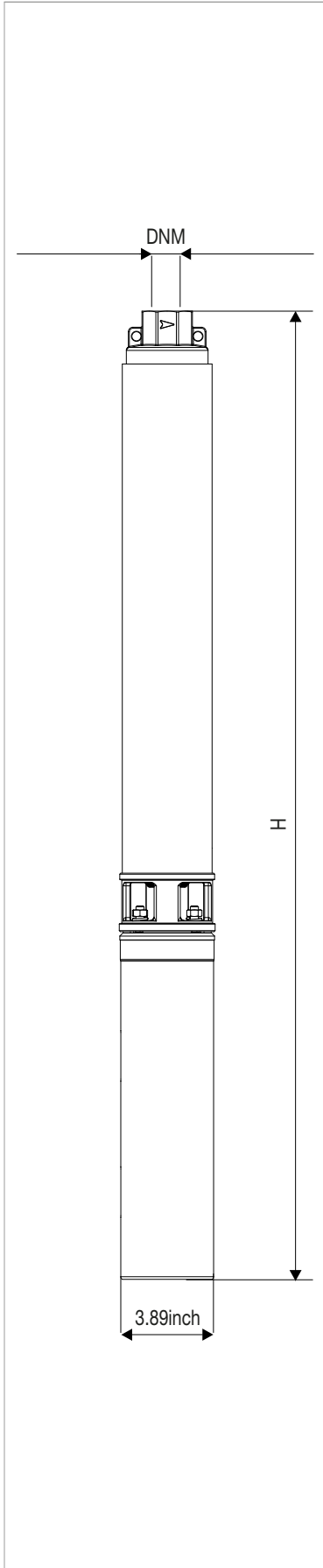
MODEL	P2 hp	STAGES	LENGTH inch	GROSS WEIGHT lbs	DISCHARGE SIZE npt	ASSEMBLED VERSION	MOTOR TYPE	VOLTAGE
S4 20/07	0.75	6	14.2	6.2	1" 1/4	YES*	NO MOTOR	-
			28.1	29.4			4TW 2W	230
			25.5	27.6			4GG 3W	
S4 20/10	1	7	15.3	6.6	1" 1/4	YES*	NO MOTOR	-
			32.0	35.3			4TW 2W	230
			28.9	34.5			4GG 3W	
S4 20/15	1.5	10	18.2	9.9	1" 1/4	YES*	NO MOTOR	-
			36.8	42.5			4TW 2W	230
			33.6	42.3			4GG 3W	
S4 20/20	2	13	21.3	9.3	1" 1/4		NO MOTOR	-
S4 20/30	3	18	26.3	11.9	1" 1/4		NO MOTOR	-
S4 20/50	5	28	31.1	18.3	1" 1/4		NO MOTOR	-

PUMP MODEL	HP	PSI	Depth to pumping water in feet																			Shut-Off (ft)														
				20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	480	500	600		700	800	900	1000	1100	1200								
S4 20/07	3/4	0	0					28	26	23	18	13	8																	196						
		20	46				24	22	18	13	8																									
		30	69				24	21	16	11																										
		40	92			24	21	17	11																											
		50	116		21	17	8																													
		60	139		13	8																														
		80	185																																	
	Shut-off PSI		76	68	59	50	42	33	24	16	7																			85						
S4 20/10	1	0	0							26	25	22	19	17	9																263					
		20	46					24	22	19	16	12	8																							
		30	69				24	21	19	15	12	5																								
		40	92			24	21	19	14	12	5																									
		50	116			23	20	18	15	8																										
		60	139		22	20	17	12	9																											
		80	185		16	12	7																													
	Shut-off PSI		105	96	88	79	70	62	53	44	36	27	10																	114						
S4 20/15	1.5	0	0							26	25	23	22	16	14	8															321					
		20	46						24	23	21	18	16	10	6																					
		30	69					24	20	20	18	15	12																							
		40	92				24	22	20	18	15	12	10																							
		50	116				23	21	20	16	14	10	8																							
		60	139			23	21	18	16	14	10	8																								
		80	185		21	18	16	12	10																											
	Shut-off PSI		130	122	113	104	96	87	78	70	61	52	35	27	9															139						
S4 20/20	2	0	0									26	23	22	18	12	6														422					
		20	46									24	22	20	18	13	5																			
		30	69									24	23	22	20	17	15	10																		
		40	92									24	23	22	20	18	15	15	6																	
		50	116					24	23	22	20	18	15	12	8																					
		60	139				24	23	21	20	18	16	14	8																						
		80	185				23	21	20	18	16	14	12	8																						
	Shut-off PSI		174	166	157	148	140	131	122	114	105	96	79	70	53	27	10													183						
S4 20/30	3	0	0															25	22	20	12	11									580					
		20	46																25	23	20	16	9	6												
		30	69																	24	23	21	17	12	6											
		40	92																		24	23	22	20	16	12										
		50	116																			24	23	22	21	18	12	6								
		60	139																				24	23	22	21	20	17	11							
		80	185																					24	23	22	20	18	16	12						
	Shut-off PSI		242	234	225	216	208	199	190	182	173	164	147	138	121	95	78	43	34												251					
S4 20/50	5	0	0																			25	23	19	13							959				
		20	46																				25	24	21	16	10									
		30	69																					25	24	23	19	14	6							
		40	92																						25	24	23	22	18	12	6					
		50	116																						25	24	24	22	21	18	11					
		60	139																							25	24	24	23	22	21	16	10			
		80	185																								25	24	23	23	20	19	14			
	Shut-off PSI		407	398	389	381	372	363	355	346	337	329	311	303	285	259	242	208	199	156	112	69										415				

* assembled version available with canned motor 4GG and 4TW
 NOTE: performances shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

S4 20

4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

ELECTRICAL DATA AND DIMENSIONS

MODEL	P2 hp	STAGES	LENGTH inch	GROSS WEIGHT lbs	DISCHARGE SIZE npt	ASSEMBLED VERSION	MOTOR TYPE	VOLTAGE
S4 25/10	1	7	17.8	7.5	1" 1/4		NO MOTOR	-
			34.6	36.2		YES*	4TW 2W	230
			31.4	35.4		YES*	4GG 3W	
S4 25/15	1.5	10	21.9	9.0	1" 1/4		NO MOTOR	-
			40.5	41.7		YES*	4TW 2W	230
			37.3	41.4		YES*	4GG 3W	
S4 25/20	2	13	26.0	10.4	1" 1/4		NO MOTOR	-
S4 25/30	3	17	31.4	12.1	1" 1/4		NO MOTOR	-
S4 25/50	5	26	42.2	19.4	1" 1/4		NO MOTOR	-

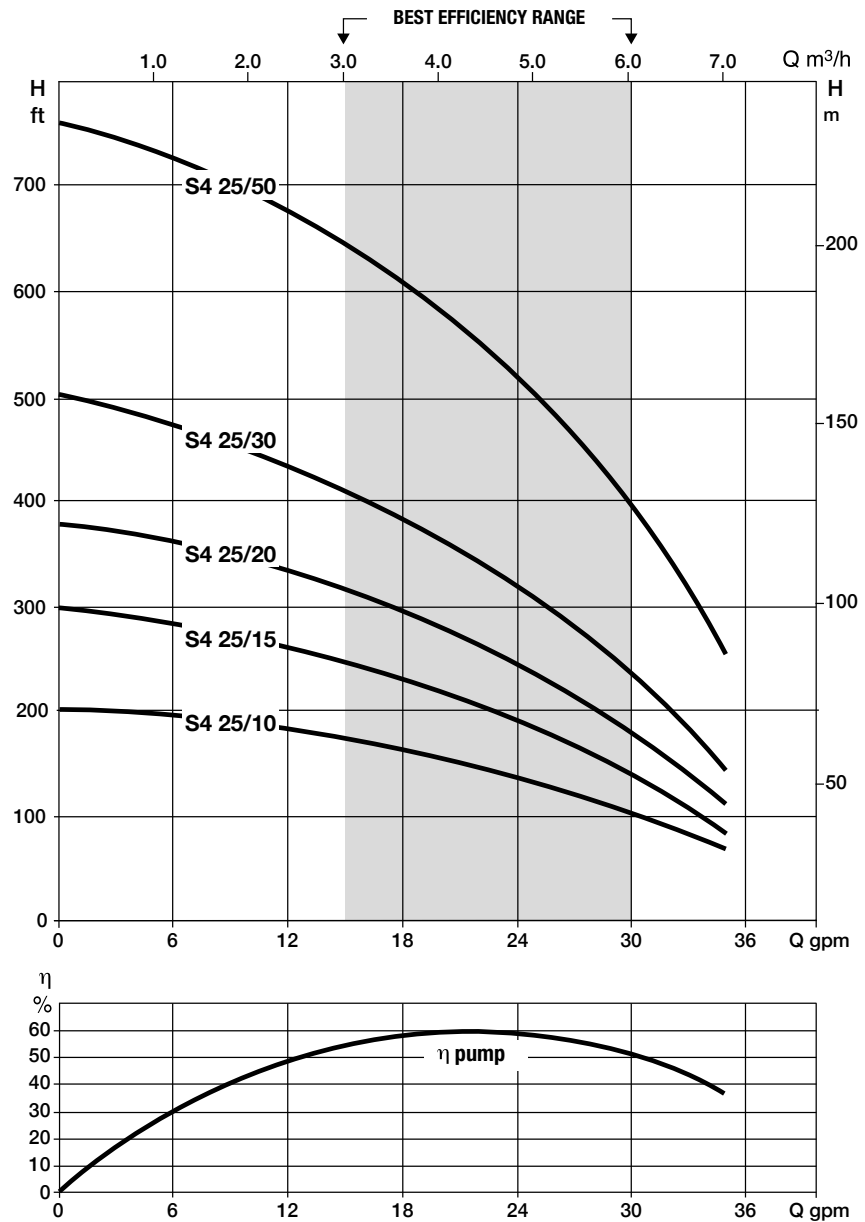
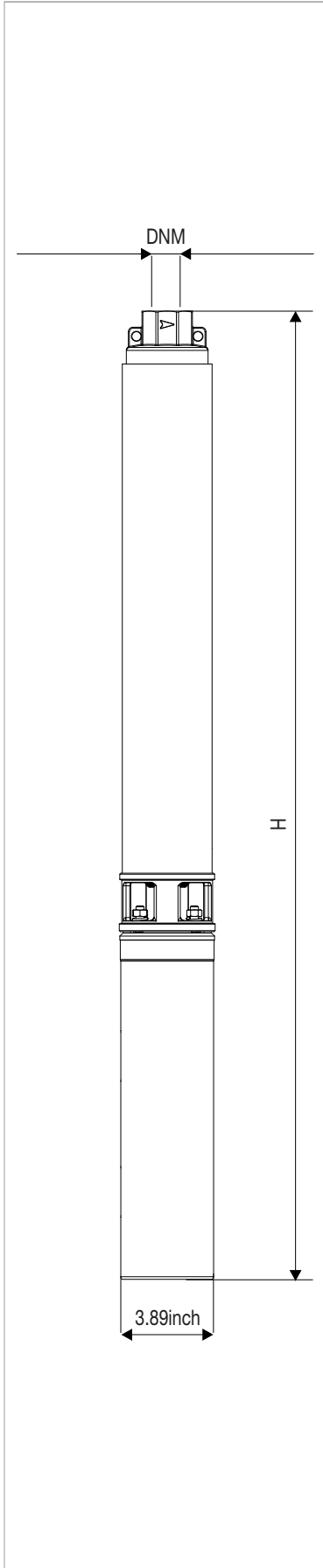
* assembled version available with canned motor 4GG and 4TW

PUMP MODEL	HP	PSI	Depth to pumping water in feet															Shut-Off (ft)																					
				20	40	60	80	100	120	140	160	180	200	240	260	300	360		400	480	500	600	700	800	900	1000	1100	1200											
S4 25/10	1	0	0			35	32	30	27	22	17	11																										202	
		20	46			32	30	26	22	17	11																												
		30	69	32	28	24	21	16	8																														
		40	92	28	24	21	16	8																															
		50	116	24	20	11																																	
		60	139	18	11																																		
	80	185																																					
	Shut-off PSI		79	70	61	53	44	35	27	18	9																									87			
S4 25/15	1.5	0	0							33	32	29	26	24	23	16	12																						299
		20	46					33	31	29	26	24	22	18	14																								
		30	69			32	30	28	26	24	21	18	14	10																									
		40	92	32	30	28	26	24	21	18	14	10																											
		50	116	29	28	25	23	21	17	14	8																												
		60	139	27	25	22	20	17	12	8																													
	80	185	22	19	16	10																																	
	Shut-off PSI		121	112	103	95	86	77	69	60	51	43	25	17																							129		
S4 25/20	2	0	0								33	31	30	28	24	22	17	7																				379	
		20	46					33	31	29	27	25	23	18	16	10																							
		30	69				32	31	29	27	25	23	20	15	12																								
		40	92			32	30	29	27	25	23	20	18	12																									
		50	116		32	30	28	26	25	22	20	18	14																										
		60	139	31	30	28	26	24	22	20	16	14	10																										
	80	185	27	25	24	22	19	16	12	10																													
	Shut-off PSI		155	147	138	129	121	112	103	95	86	77	60	51																							164		
S4 25/30	3	0	0												33	32	29	28	25	20	16																	499	
		20	46								33	32	30	28	26	24	21	15	9																				
		30	69							33	32	31	30	28	26	24	22	18	12																				
		40	92						33	32	31	30	28	26	25	22	20	16	9																				
		50	116				33	32	30	28	27	26	24	23	18	17	12																						
		60	139			33	32	30	28	27	26	25	23	22	17	16	10																						
	80	185	31	30	28	27	26	24	23	20	19	17	12	10																									
	Shut-off PSI		207	199	190	181	173	164	155	147	138	130	112	104	86	60	43																				216		
S4 25/50	5	0	0																33	31	29	26	25	18	10												760		
		20	46																	33	31	29	27	23	22	14													
		30	69																	33	32	30	28	26	22	20	12												
		40	92														33	32	31	30	27	26	20	19	10														
		50	116													33	32	31	30	28	26	24	18	16	8														
		60	139													33	32	32	30	29	28	25	22	17	15														
	80	185								33	32	31	30	30	28	28	26	22	20	12	10																		
	Shut-off PSI		320	312	303	294	286	277	268	260	251	242	225	216	199	173	156	121	112	69	26																329		

NOTE: performances shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage.

S4 25

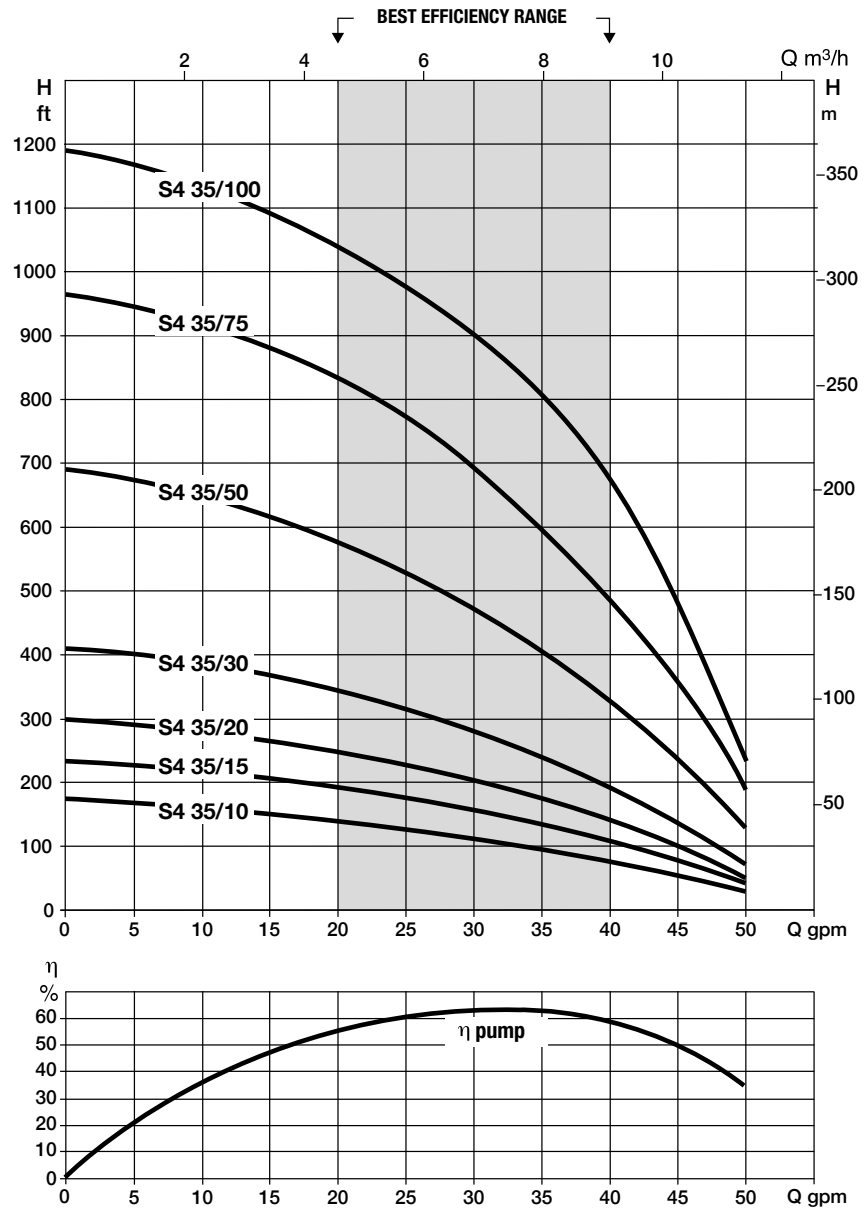
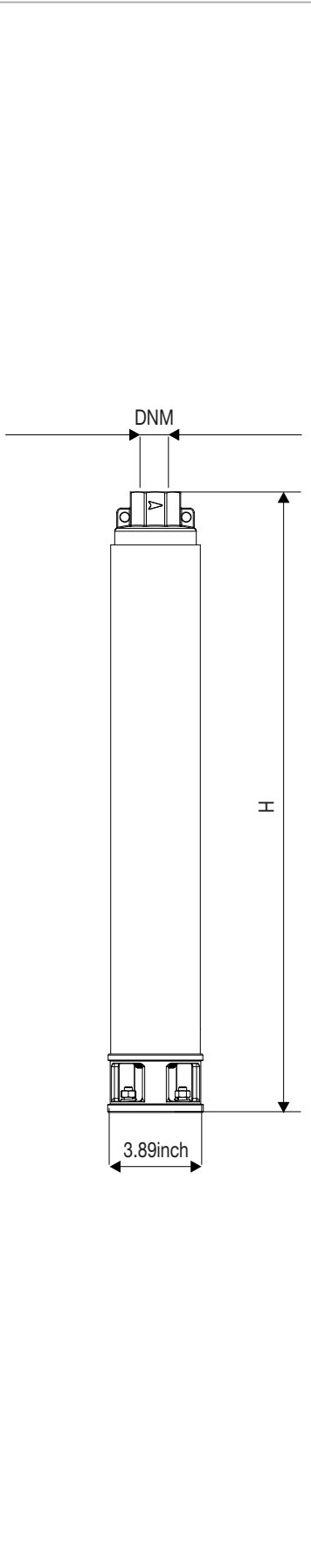
4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

S4 35

4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

ELECTRICAL DATA AND DIMENSIONS

MODEL	P2 hp	STAGES	LENGTH inch	GROSS WEIGHT lbs	DISCHARGE SIZE npt	MOTOR TYPE
S4 45/15	1.5	5	15.3	6.6	2"	NO MOTOR
S4 45/20	2	7	17.9	7.5	2"	NO MOTOR
S4 45/30	3	9	20.5	8.4	2"	NO MOTOR
S4 45/50	5	14	24.8	12.1	2"	NO MOTOR
S4 45/75	7.5	22	36.0	18.1	2"	NO MOTOR
S4 45/100	10	30	45.8	22.9	2"	NO MOTOR

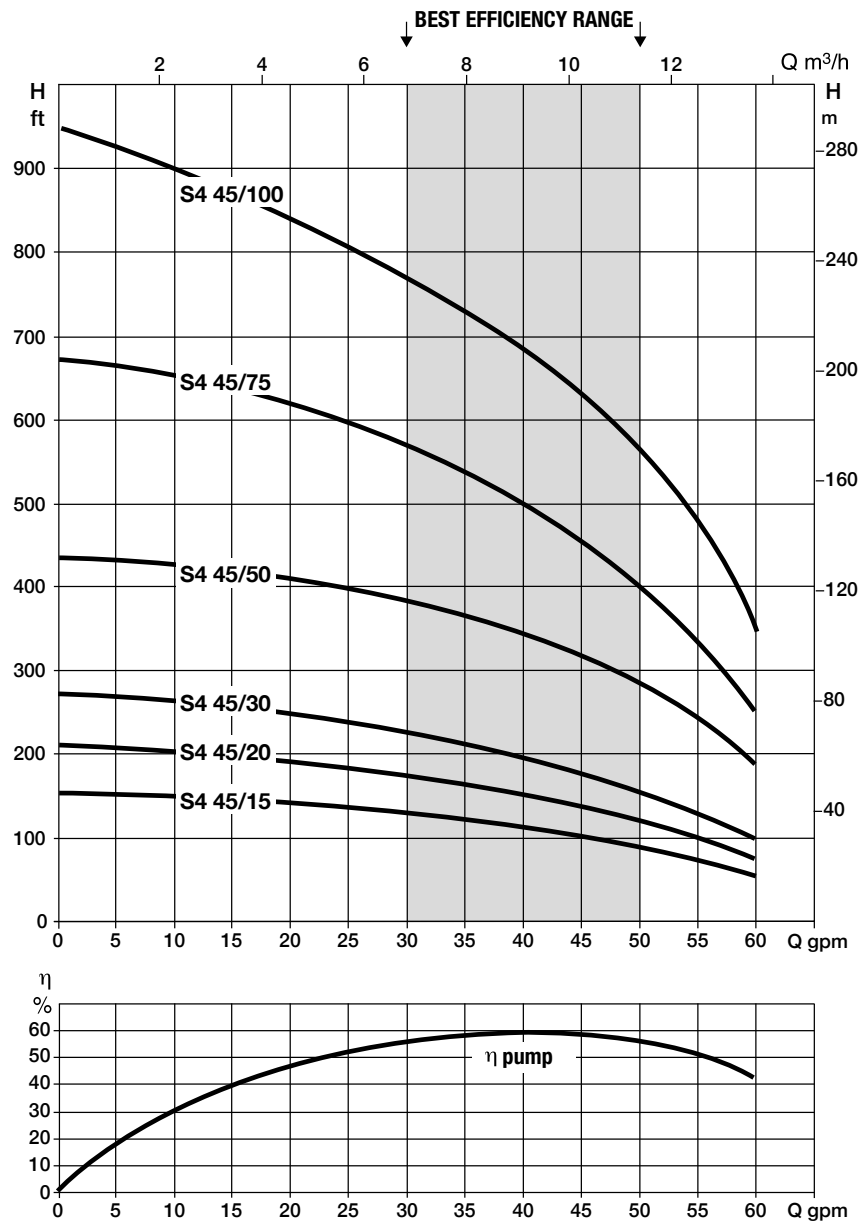
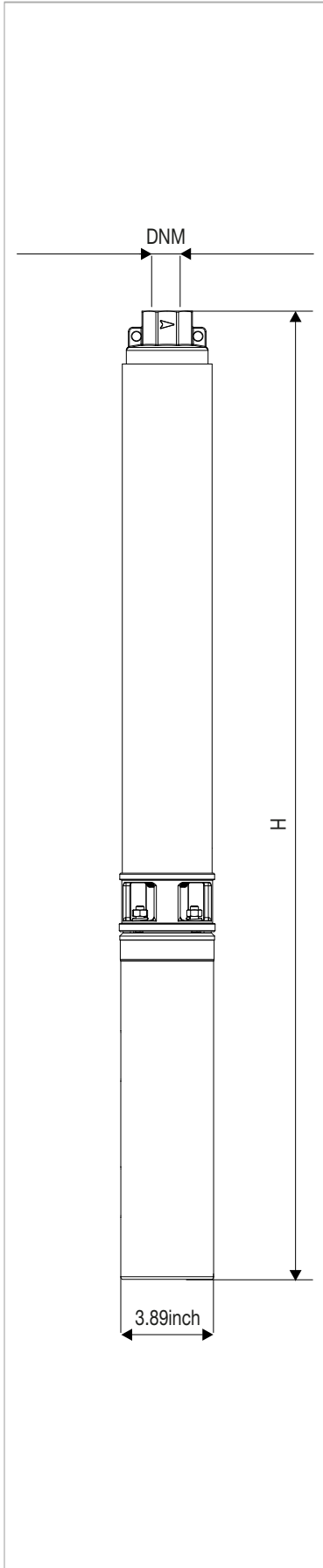
* assembled version available with canned motor 4GG and 4TW

PUMP MODEL	HP	PSI	Depth to pumping water in feet																								Shut-Off (ft)	
			20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	480	500	600	700	800	900	1000	1100	1200		
S4 45/15	1.5	0	0				53	45	36	20																		
		20	46		52	45	33	17																				
		30	69	50	41	30																						
		40	92	41	30																							
		50	116	30																								
		60	139	20																								
		80	185																									
Shut-off PSI			57	48	40	31	22	14	5																		66	
S4 45/20	2	0	0				58	55	50	45	38	28	13															
		20	46		58	54	49	43	36	26	10																	
		30	69	57	52	47	41	33	21																			
		40	92	52	47	41	33	21																				
		50	116	46	40	31	16																					
		60	139	38	28	13																						
		80	185																									
Shut-off PSI			83	74	66	57	48	40	31	22	14	5														92		
S4 45/30	3	0	0						56	53	49	45	40	24	12													
		20	46					52	48	43	38	31	20															
		30	69				51	47	42	37	29	18																
		40	92			51	47	42	37	29	18																	
		50	116		51	47	42	37	29	18																		
		60	139	49	45	40	33	24	12																			
		80	185	38	29	20																						
Shut-off PSI			109	101	92	83	75	66	57	49	40	31	14	5												118		
S4 45/50	5	0	0										58	55	53	47	37	22										
		20	46										56	54	50	47	39	20										
		30	69									56	54	51	46	42	34											
		40	92								56	54	51	46	42	34												
		50	116							56	54	51	48	45	38	32												
		60	139						55	53	50	47	44	41	30	22												
		80	185					52	50	47	44	40	36	28	13													
Shut-off PSI			180	171	162	154	145	136	128	119	110	102	84	76	58	32	15									188		
S4 45/75	7.5	0	0											60	58	57	53	50	43	40	23							
		20	46											60	58	57	54	50	46	37	34	10						
		30	69										60	59	56	55	53	47	43	32	29							
		40	92									60	59	57	55	54	51	45	41	30	25							
		50	116								59	58	57	56	53	52	49	43	38	24								
		60	139							59	58	57	56	55	52	50	47	40	35	15								
		80	185					57	56	55	54	53	51	48	46	42	35	26										
Shut-off PSI			282	274	265	256	248	239	230	222	213	204	187	178	161	135	118	83	74	31						291		
S4 45/100	10	0	0															60	59	58	54	53	45	38	23	12		
		20	46															60	59	58	56	51	50	42	32	15		
		30	69															60	59	58	56	54	50	47	41	27		
		40	92														60	60	59	58	55	53	48	48	38	25		
		50	116													60	60	59	58	57	53	51	45	44	35	18		
		60	139													60	60	59	58	58	56	53	50	44	43	32		
		80	185								60	59	59	58	57	55	53	50	47	41	37	25	11					
Shut-off PSI			403	394	385	377	368	359	351	342	333	325	307	299	281	255	238	203	195	152	108	65	22			411		

NOTE: performances shown does not include friction loss in the drop pipe. All performance data is based on rated motor nameplate voltage. Performance shown is based on a pump without check valve.

S4 45

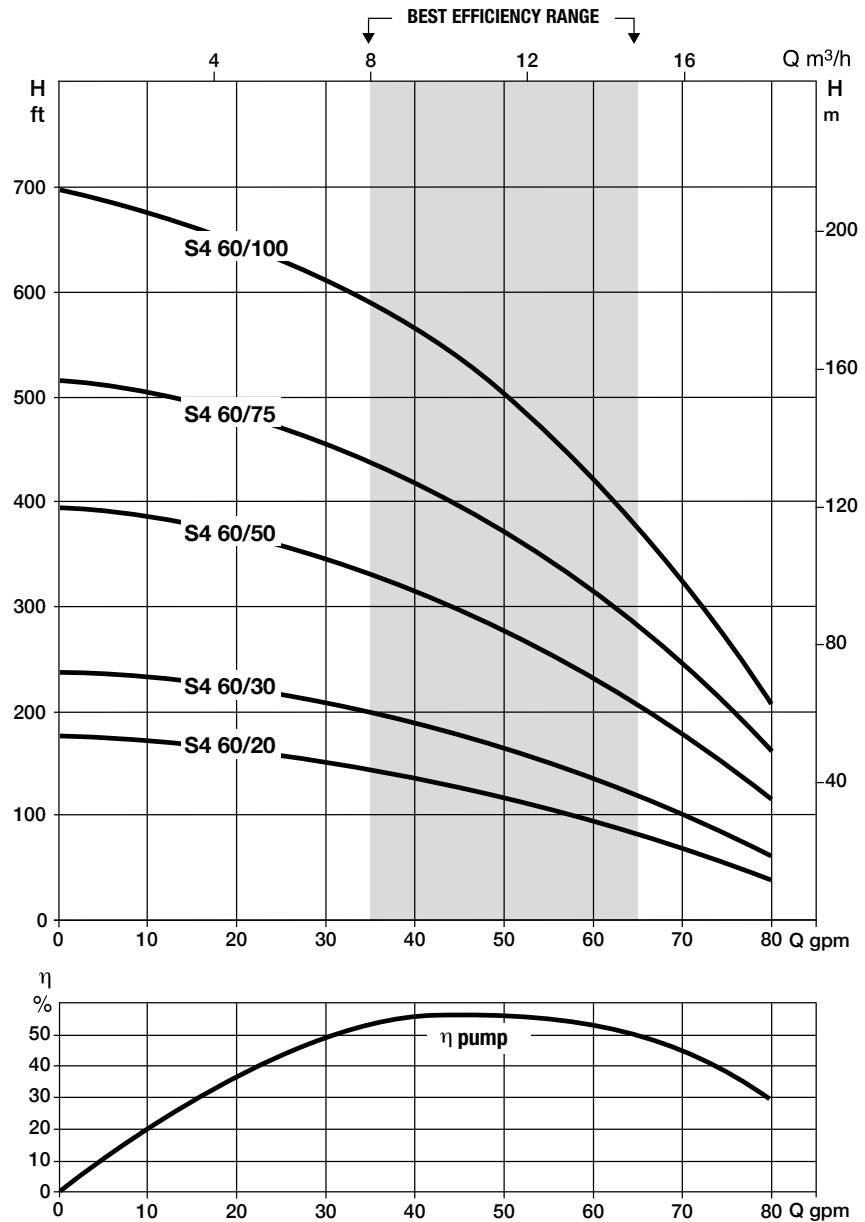
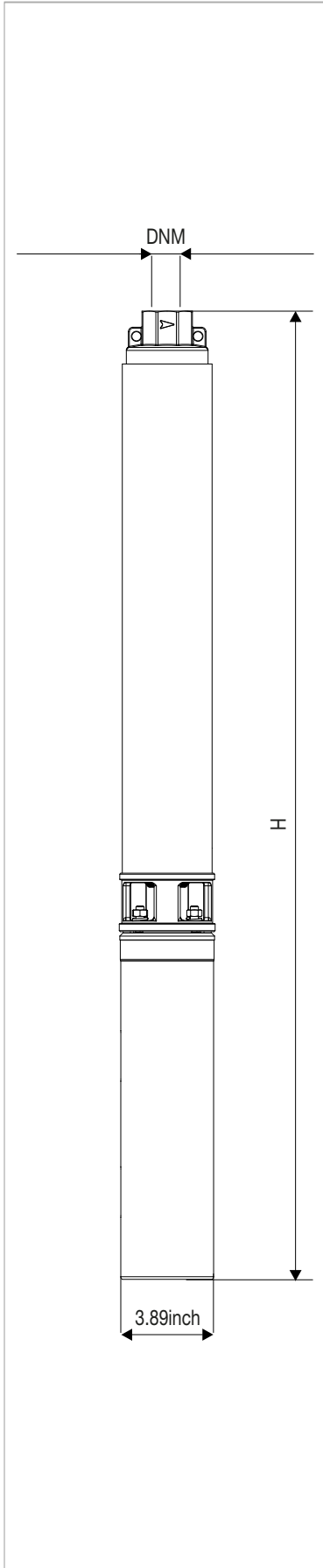
4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

S4 60

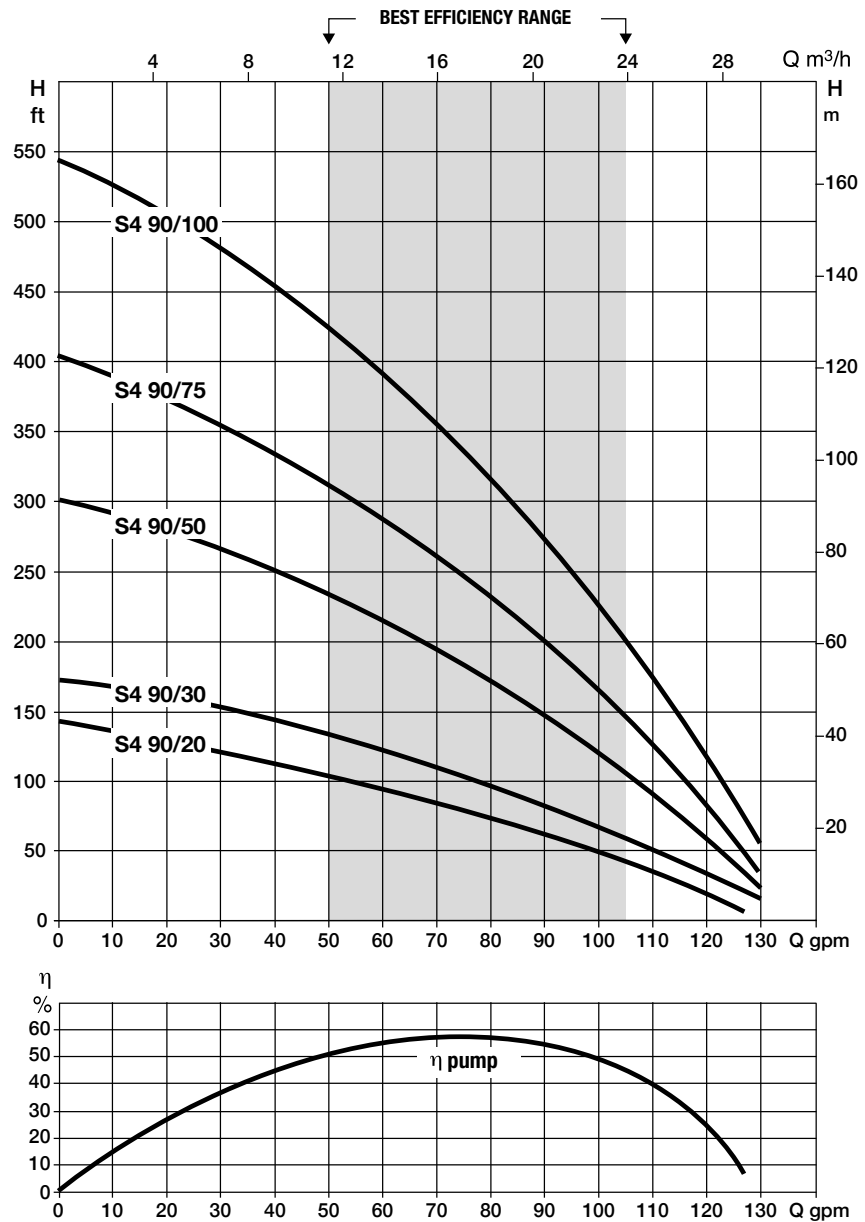
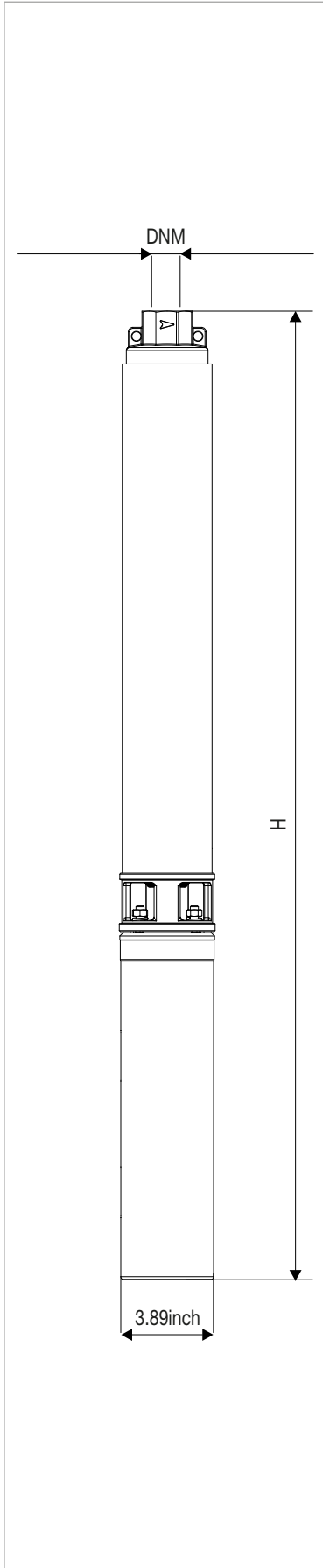
4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

S4 90

4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

HYDRAULIC EFFICIENCY

US DOE,S PUMPS ENERGY CONSERVATION STANDARDS

GENERAL INFORMATION

The “S4” pumps are compliant with US DOE,s Pumps energy conservation standards:

§431.462 Clean water pump

§431.464 Test procedure for the measurement of energy efficiency, energy consumption, and other performance factors of pumps.

§431.465 Pumps energy conservation standards and their compliance dates.

§431.466 Pumps labeling requirements.

The testing and labelling is done by DAB as per the following test procedure, no certification body involvement required for USA.

Appendix A to Subpart Y of Part 431—Uniform Test Method for the Measurement of Energy Consumption of Pumps.

For more info: www.ecfr.gov

BEP US gpm	P2 kW	P2 HP	DAB Model (Pump End DAB)	STAGES	PEI pump end	PEI Hydraulic + 2W motor 230 V	PEI Hydraulic + 3W motor 230 V
25	0,75	1	S 25/10	7	0,98	1	0,98
	1,1	1,5	S 25/15	10	0,88	0,97	0,92
	1,5	2	S 25/20	13	0,87		
	2,2	3	S 25/30	17	0,93		
	3,7	5	S 25/50	26	0,9		
35	0,75	1	S 35/10	6	0,94		
	1,1	1,5	S 35/15	8	0,9		
	1,5	2	S 35/20	10	0,89		
	2,2	3	S 35/30	14	0,9		
	3,7	5	S 35/50	24	0,88		
	5,5	7,5	S 35/75	35	0,92		
	7,5	10	S 35/100	49	0,92		
45	1,1	1,5	S 45/15	5	0,98		
	1,5	2	S 45/20	7	0,96		
	2,2	3	S 45/30	9	0,97		
	3,7	5	S 45/50	14	0,92		
	5,5	7,5	S 45/75	22	0,94		
	7,5	10	S 45/100	30	0,94		
60	1,5	2	S 60/20	6	1		
	2,2	3	S 60/30	8	1		
	3,7	5	S 60/50	13	0,98		
	5,5	7,5	S 60/75	17	1		
	7,5	10	S 60/100	23	1		
90	1,5	2	S 90/20	5	1		
	2,2	3	S 90/30	6	1		
	3,7	5	S 90/50	10	1		
	5,5	7,5	S 90/75	14	1		
	7,5	10	S 90/100	19	0,96		

DNA
PUMPS SELECTOR

On-line product selection



DAB PUMPS LTD.

6 Gilberd Court
Newcomen Way
Severalls Business Park
Colchester
Essex
CO4 9WN - UK
salesuk@dwtgroup.com
Tel. +44 0333 777 5010



DAB PUMPS IBERICA S.L.

Calle Verano 18-20-22
28850 - Torrejón de Ardoz - Madrid
Spain
Info.spain@dwtgroup.com
Tel. +34 91 6569545
Fax: + 34 91 6569676



DAB PUMPS SOUTH AFRICA (PTY) LTD

Twenty One Industrial Estate,
16 Purlin Street, Unit B, Warehouse 4
Olifantsfontein -1666 - South Africa
info.sa@dwtgroup.com
Tel. +27 12 361 3997



DAB PUMPS BV

'tHofveld 6 C1
1702 Groot Bijgaarden - Belgium
info.belgium@dwtgroup.com
Tel. +32 2 4668353



DAB PUMPS HUNGARY KFT.

H-8800
Nagykanizsa, Buda Ernő u.5
Hungary
Tel. +36 93501700



DAB PUMPS (QINGDAO) CO. LTD.

No.40 Kaituo Road, Qingdao Economic & Technological
Development Zone
Qingdao City, Shandong Province - China
PC: 266500
sales.cn@dwtgroup.com
Tel. +86 400 186 8280
Fax +86 53286812210



DAB PUMPS POLAND Sp. z o.o.

Ul. Janka Muzykanta 60
02-188 Warszawa - Poland
polska@dabpumps.com.pl



DAB PUMPS B.V.

Albert Einsteinweg, 4
5151 DL Drunen - Nederland
info.netherlands@dwtgroup.com
Tel. +31 416 387280
Fax +31 416 387299



OOO DAB PUMPS

Novgorodskaya str. 1, block G
office 308, 127247, Moscow - Russia
info.russia@dwtgroup.com
Tel. +7 495 122 0035
Fax +7 495 122 0036



DAB PUMPS DE MÉXICO, S.A. DE C.V.

Av Amsterdam 101 Local 4
Col. Hipódromo Condesa,
Del. Cuauhtémoc CP 06170
Ciudad de México
Tel. +52 55 6719 0493



DAB PUMPEN DEUTSCHLAND GmbH

Tackweg 11
D - 47918 Tönisvorst - Germany
info.germany@dwtgroup.com
Tel. +49 2151 82136-0
Fax +49 2151 82136-36



DAB PUMPS INC.

3226 Benchmark Drive
Ladson, SC 29456 - USA
info.usa@dwtgroup.com
Tel. 1- 843-797-5002
Fax 1-843-797-3366



DAB PUMPS OCEANIA PTY LTD

426 South Gippsland Hwy,
Dandenong South VIC 3175 - Australia
info.oceania@dwtgroup.com
Tel. +61 1300 378 677