



radial floating impellers	4SDF 16, 22, 36, 46, 54
radial impellers	4SD 31, - 6SDN 12, 16, 21
mixed flow impellers	4SD 10, 15 - 6SD 18, 19, 20

Connection: screwed connection ISO 228.

Delivery casing with built-in non-return valve.

Applications

- For water supply.
- For civil and industrial applications.
- For fire fighting applications.
- For irrigation.

Operating conditions

- Liquid temperature: - up to a 25 °C for 4" motors
- up to a 30 °C for 6-8-10" motors.

Max. sand quantity into the water: 100 g/m³.

Continuous duty.

Rewindable motor CS series

2-pole induction motor, 50 Hz (n = 2900 rpm).
Sized for connection to the pumps according to NEMA Standards.
Standard voltages:

- single-phase 230 V up to 2,2 kW for 4" motors.
- three-phase 230 V; 400 V, for 4" motors.
- three-phase 400 V; 400/690 V, for 6" motors.

Voltage tolerance : +6% / -10%.

Recommended type of starting for powers from 7.5 kW:
star/delta, soft start, impedance starting, autotransformer.

Motor	4"	6"
Max. Liquid temperature	30°C	25°C
Max. starts per hour	20	15
Cooling : minimum flow velocity	8 cm/s	16 cm/s

Insulation class F for 4" motors, PVC coated wire for 6" motors.
Protection IP 68.

Cable

Motor 230V - 50Hz - 1~	Section	Length
4CS 0,37 ÷ 2,2 kW	4 G 2 mm²	2 m
Motor 400V - 50Hz - 3 ~	Section	Length
4CS 0,37 ÷ 2,2 kW	4 G 2 mm²	2 m
4CS 3 ÷ 5,5 kW	4 G 2 mm²	3,5 m
6CS 4 ÷ 22 kW	3 + 1 x 4 mm²	3,5 m
6CS 26 - 30 kW	3 + 1 x 6 mm²	3,5 m

Special features on request

- Other voltages.
- 60 Hz frequency.
- Other temperatures.
- Motor FK series.

Designation

4 SD M 31 / 26

Ø of the well in inches _____

Series _____

Single-phase motor (up to max. 2,2 kW) _____

Stage identification _____

Number of stages _____

Materials

Components	Part Nr.	4SD, 4SDF	6SD - 6 SDN
External jacket	14.02	Cr-Ni steel	AISI 304
Stage casing (4SDF)	25.02	Cr-Ni steel	AISI 304
Stage casing (4SDF)	25.02	Polycarbonate (Lexan 144 R)	
Diffuser	26.00		GFN2V* (NORYL®)
Impeller	28.00	GFN2V* (NORYL®)* for 4SDF	
Wear ring		Cr-Ni steel	AISI 304
Shaft	64.00	Cr steel	AISI 430 F
Delivery casing	12.01	Bronze	
Suction lantern	32.02	G-Cu Sn 10 EN 1982	
Bearing bush	12.03-12.30	Thermoplastic	Rubber
Strainer	15.50	Cr-Ni steel	AISI 304
Screws		Cr-Ni steel	AISI 304

* Trademark of General Electric

Components	4CS	6CS
External frame	Cr-Ni steel	AISI 304
Shaft	Cr-Ni-Mo steel AISI 316 (shaft end)	Cr steel AISI 420 Hardened and tempered
Thrust bearing	Oil wetted ball type	Oscillation pads
Bearing bush	Oil wetted ball type	Graphite

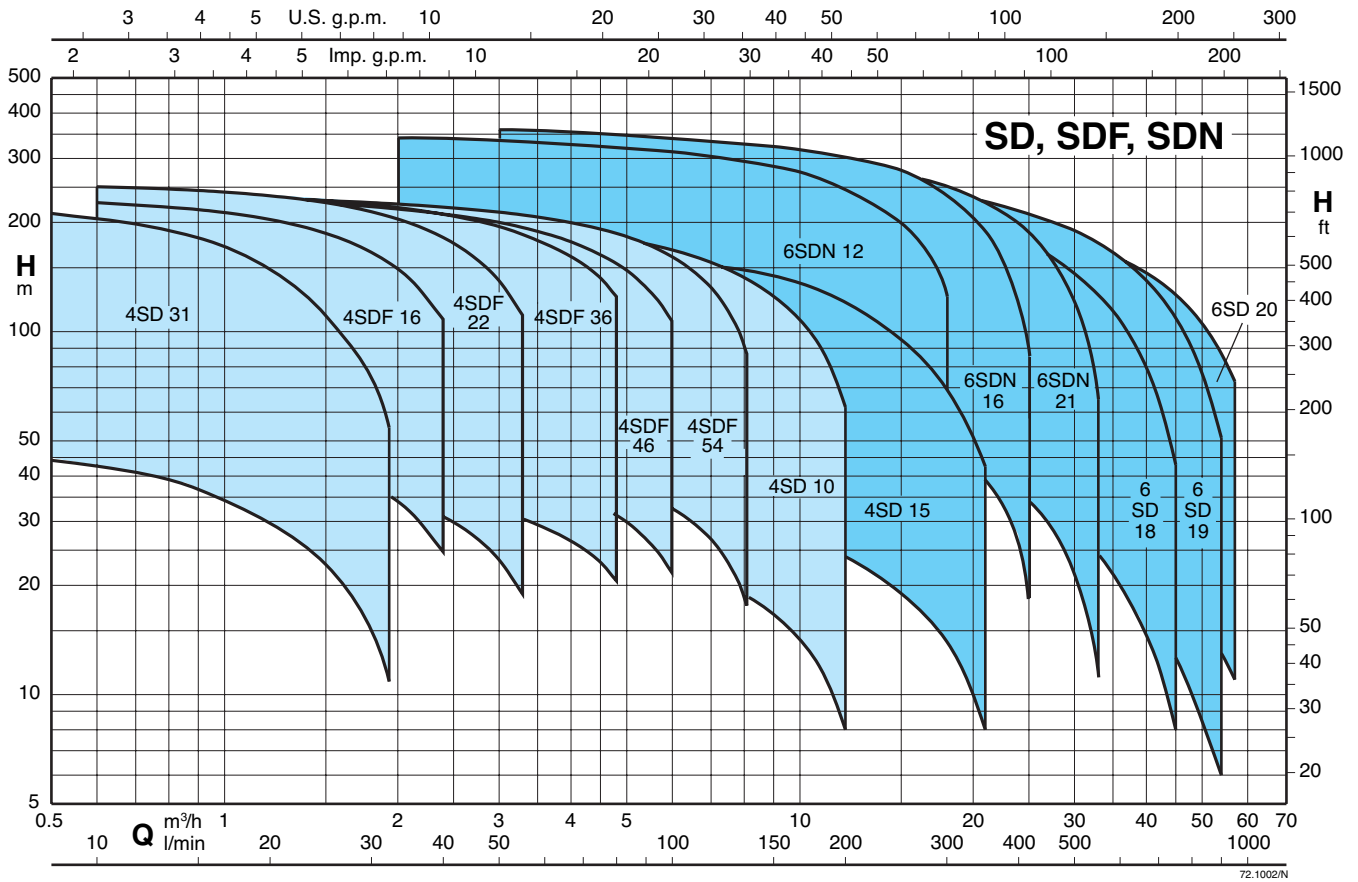
Motor

Pump



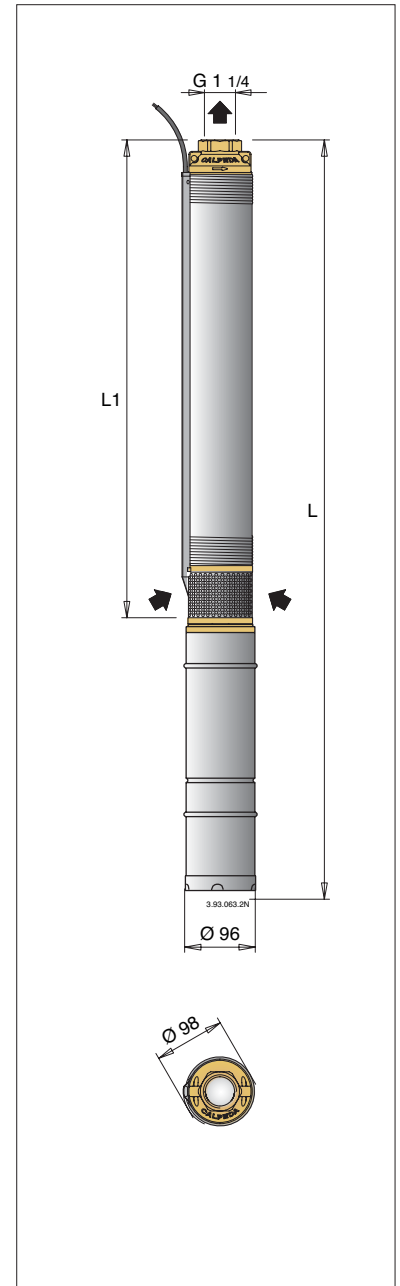
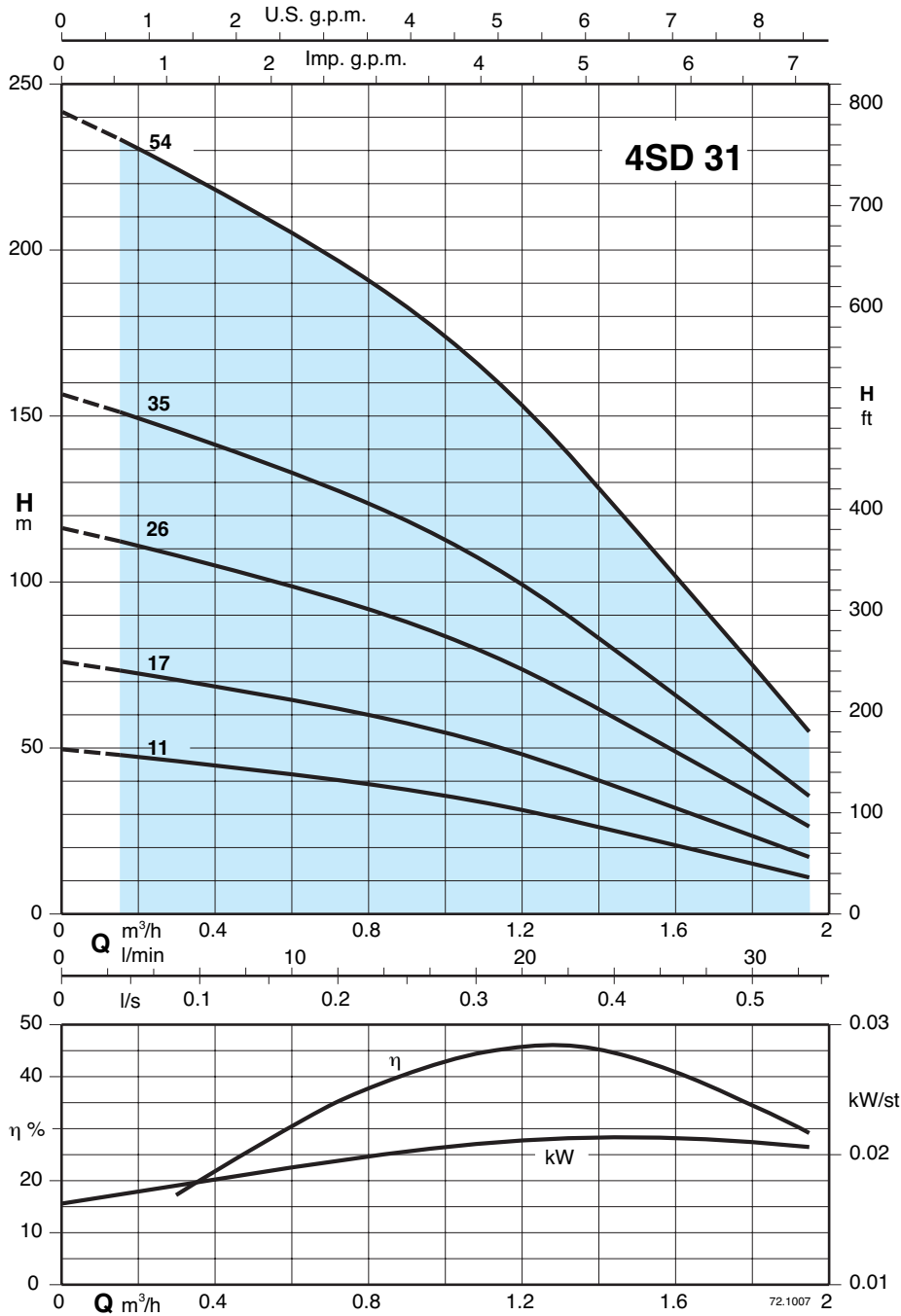
Submersible motor pumps for deep wells of 4" and 6"

Coverage chart $n \approx 2900$ rpm



Submersible motor pumps for deep wells of 4"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



	3~ 400 V (380-415) 50 Hz A	1~ 230V 450 Vc μF	* P1 kW	P2 kW	HP	Q m³/h l/min	n ≈ 2900 1/min								
							0,15	0,3	0,6	0,9	1,2	1,5	1,8		
							2,5	5	10	15	20	25	30		
4SD 31/11EC	1,45	4SDM 31/11EC	3,2 16	0,60	0,37	0,5	48	46	42	37	31	23	15		
4SD 31/17EC	1,45	4SDM 31/17EC	3,2 16	0,68	0,37	0,5	73	71	65	58	48	36	24		
4SD 31/26EC	1,7	4SDM 31/26EC	4,7 25	0,98	0,55	0,75	112	108	99	88	74	56	36		
4SD 31/35EC	2,2	4SDM 31/35EC	5,8 30	1,23	0,75	1	151	145	133	118	99	75	49		
4SD 31/54EC	3	4SDM 31/54EC	8,3 40	1,72	1,1	1,5	233	224	205	183	153	115	75		

L1 mm	4SD		4SDM	
	L mm	kg	L mm	kg
402	712	11,5	712	11,2
520	830	12,5	830	12,2
698	1008	14	1028	14,5
875	1205	16,5	1235	17
1295	1655	20,8	1685	21,7

P1: Max. power input

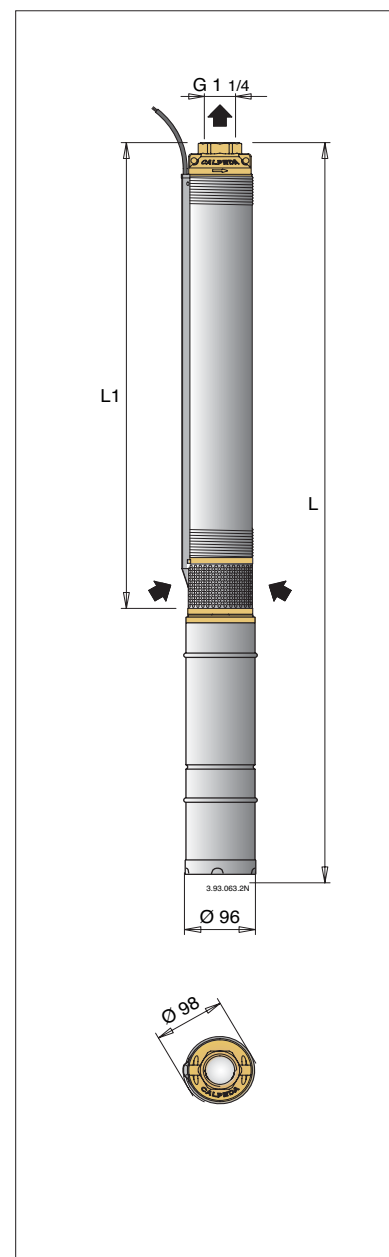
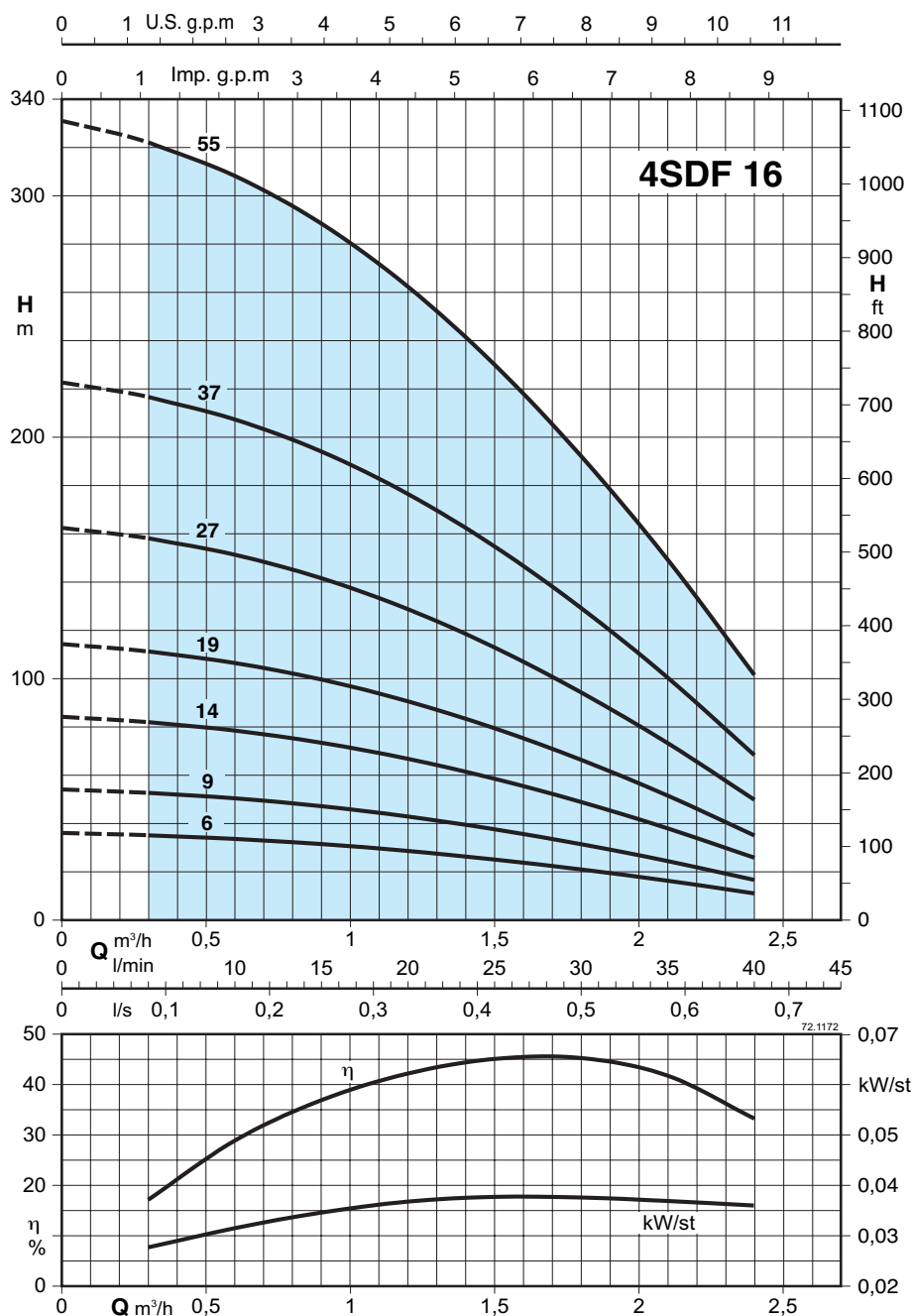
P2: Rated motor power output

* Only for single-phase motor 230 V - 50 Hz (on request)

H: Total head in m

Submersible motor pumps for deep wells of 4"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3~	400 V (380-415) 50 Hz A	1~	230V *		P ₁		P ₂		Q m ³ /h l/min	n ≈ 2900 1/min													
			A	450 Vc μF	kW	kW	HP	0		0,3	0,6	0,9	1,2	1,5	1,8	2,1	2,4						
4SDF 16/6EC	1,45	4SDFM 16/6EC	3,2	16	0,60	0,37	0,5	H m	36,1	35,1	33,6	31,5	28,6	25,1	21	16,3	11,1						
4SDF 16/9EC	1,45	4SDFM 16/9EC	3,2	16	0,68	0,37	0,5		54,2	52,7	50,4	47,2	42,9	37,6	31,4	24,4	16,6						
4SDF 16/14EC	1,7	4SDFM 16/14EC	4,7	25	0,98	0,55	0,75		84,3	82	78,5	73,4	66,8	58,5	48,9	38	25,8						
4SDF 16/19EC	2,2	4SDFM 16/19EC	5,8	30	1,23	0,75	1		114	111	106	100	90,6	79,5	66,4	51,5	35,1						
4SDF 16/27EC	3	4SDFM 16/27EC	8,3	40	1,72	1,1	1,5		163	158	151	142	129	113	94,3	73,2	49,8						
4SDF 16/37EC	4,2	4SDFM 16/37EC	12,5	50	2,34	1,5	2		223	217	207	194	176	155	129	100	68,3						
4SDF 16/55EC	6	4SDFM 16/55EC	15,1	70	3,23	2,2	3		331	322	308	288	262	230	192	149	102						

L1 mm	4SDF		4SDFM	
	L mm	kg	L mm	kg
305	615	10,5	615	10,5
365	675	11	675	11
465	775	11,9	795	12,9
565	895	13,9	925	15,1
725	1085	16,6	1115	18
915	1305	19,9	1365	22,6
1325	1815	27,2	1825	28,4

P₁ Max. power input

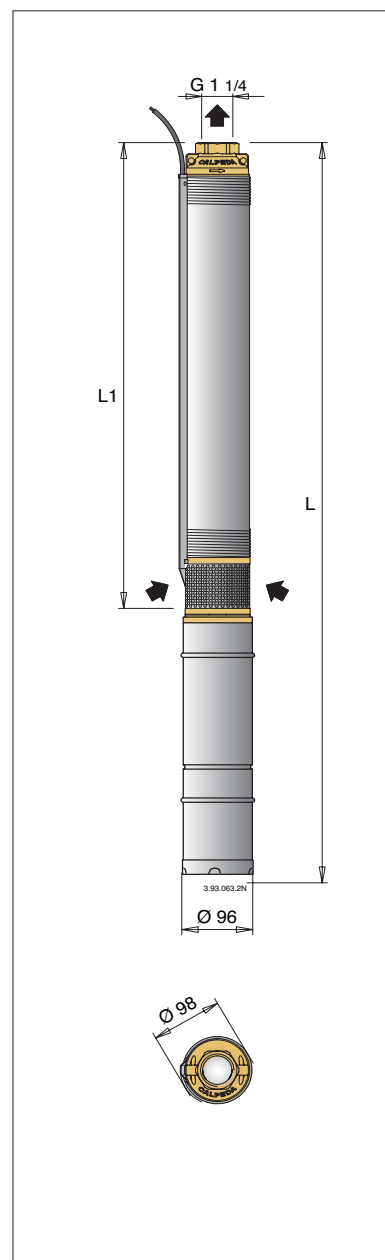
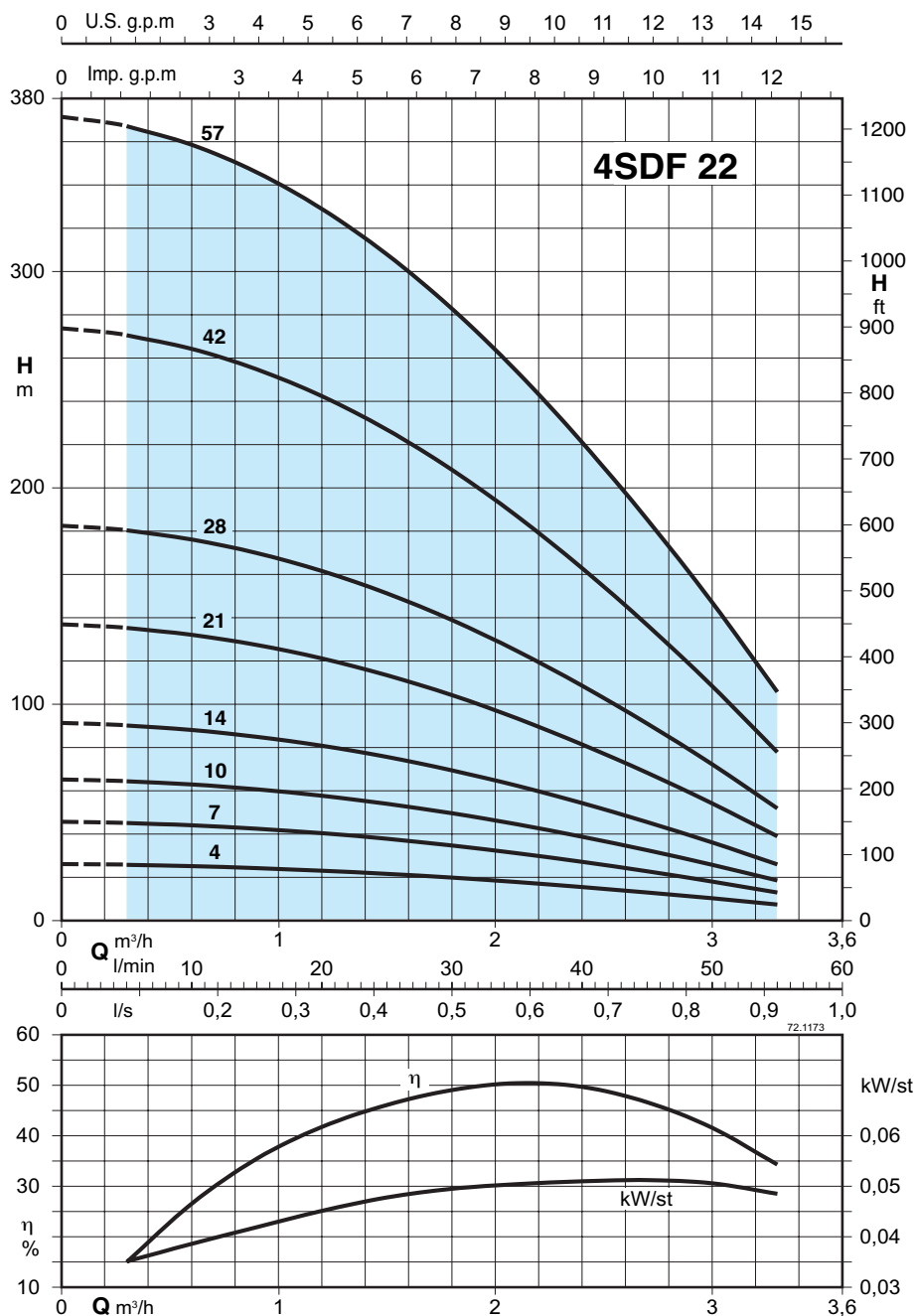
P₂ Rated motor power output

* Only for single-phase motor 230 V - 50 Hz (on request)

H Total head in m

Submersible motor pumps for deep wells of 4"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3~	400 V (380-415) 50 Hz A	1~	230V *		P ₁		P ₂		Q m ³ /h l/min	n ≈ 2900 1/min										
			A	450 Vc μF	kW	kW	HP	0		0,3	0,6	0,9	1,2	1,5	1,8	2,4	3	3,3		
4SDF 22/4EC	1,45	4SDFM 22/4EC	3,2	16	0,60	0,37	0,5	H m	26,1	25,8	25,2	24,3	23,1	21,6	19,8	15,5	10,3	7,4		
4SDF 22/7EC	1,45	4SDFM 22/7EC	3,2	16	0,68	0,37	0,5		45,6	45,1	44	42,5	40,4	37,8	34,7	27,1	18	13		
4SDF 22/10EC	1,7	4SDFM 22/10EC	4,7	25	0,98	0,55	0,75		65,2	64,4	62,9	60,7	57,7	54	49,6	38,8	25,8	18,5		
4SDF 22/14EC	2,2	4SDFM 22/14EC	5,8	30	1,23	0,75	1		91,2	90,2	88,1	84,9	80,8	75,6	69,5	54,3	36,1	25,9		
4SDF 22/21EC	3	4SDFM 22/21EC	8,3	40	1,72	1,1	1,5		137	135	132	127	121	113	104	81,4	54,1	38,9		
4SDF 22/28EC	4,2	4SDFM 22/28EC	12,5	50	2,34	1,5	2		182	180	176	170	162	151	139	109	72,2	51,9		
4SDF 22/42EC	6	4SDFM 22/42EC	15,1	70	3,23	2,2	3		274	271	264	255	242	227	208	163	108	77,8		
4SDF 22/57EC	7,4								371	367	359	346	329	308	283	221	147	106		

L1 mm	4SDF		4SDFM	
	L mm	kg	L mm	kg
265	575	10,1	575	10,1
325	635	10,7	635	10,7
385	695	11,2	715	12,2
465	795	12,9	825	14,1
605	965	15,5	995	16,9
745	1135	18,2	1195	20,9
1015	1505	24,4	1515	25,6
1365	1940	33,1		

P₁ Max. power input

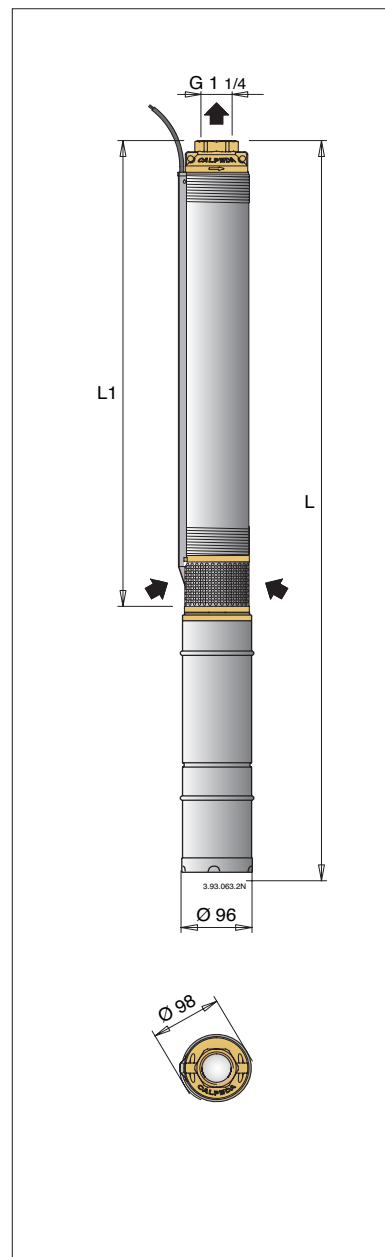
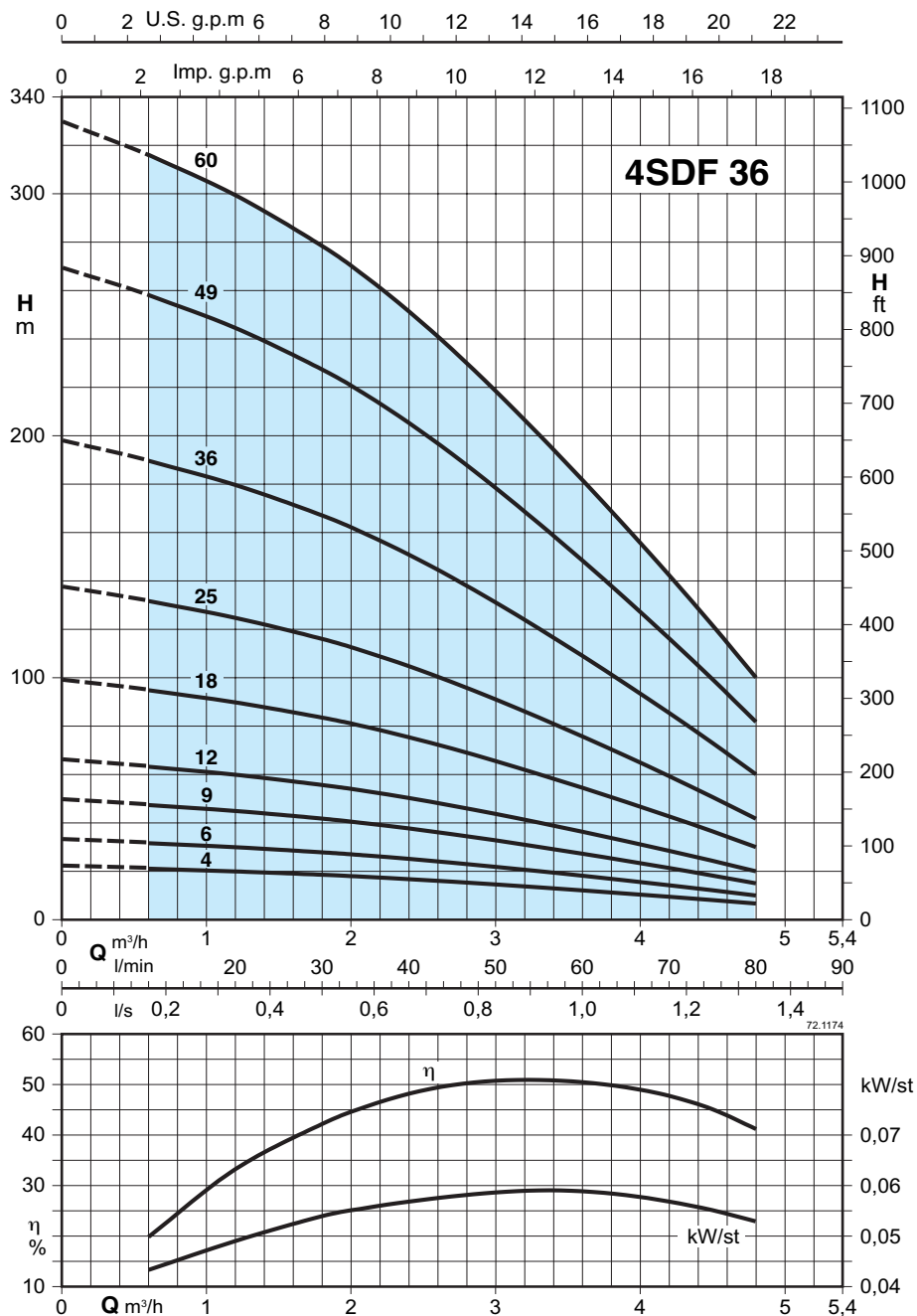
P₂ Rated motor power output

* Only for single-phase motor 230 V - 50 Hz (on request)

H Total head in m

Submersible motor pumps for deep wells of 4"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3~	400 V (380-415) 50 Hz A	1~	230V *			P ₁ kW	P ₂ kW	HP	Q m^3/h	$n \approx 2900$ 1/min											
			450 Vc		0					0,6	1,2	1,8	2,4	3	3,6	4,2	4,8				
			A	μF														0	10	20	30
4SDF 36/4EC	1,45	4SDFM 36/4EC	3,2	16	0,60	0,37	0,5	H m	22	21,1	20	18,6	16,8	14,6	12,1	9,5	6,7				
4SDF 36/6EC	1,45	4SDFM 36/6EC	3,2	16	0,68	0,37	0,5		33	31,6	29,9	27,8	25,1	21,9	18,2	14,2	10				
4SDF 36/9EC	1,7	4SDFM 36/9EC	4,7	25	0,98	0,55	0,75		49,5	47,4	44,9	41,8	37,7	32,8	27,3	21,4	15				
4SDF 36/12EC	2,2	4SDFM 36/12EC	5,8	30	1,23	0,75	1		66	63,2	59,9	55,7	50,3	43,7	36,3	28,5	20				
4SDF 36/18EC	3	4SDFM 36/18EC	8,3	40	1,72	1,1	1,5		99	94,8	89,8	83,5	75,4	65,6	54,5	42,7	30				
4SDF 36/25EC	4,2	4SDFM 36/25EC	12,5	50	2,34	1,5	2		137	132	125	116	105	91,1	75,7	59,3	41,7				
4SDF 36/36EC	6	4SDFM 36/36EC	15,1	70	3,23	2,2	3		198	190	180	167	151	131	109	85,4	60,1				
4SDF 36/49EC	7,4					3	4		269	258	245	227	205	178	148	116	81,8				
4SDF 36/60EC	9,4					4	5,5		330	316	299	278	251	219	182	142	100				

L1 mm	4SDF		4SDFM	
	L mm	kg	L mm	kg
290	600	10,2	600	10,2
340	650	10,6	650	10,6
420	730	11,3	750	12,3
500	830	13	860	14,2
660	1020	15,5	1050	16,9
845	1235	18,4	1295	21,1
1135	1625	24,3	1635	25,5
1530	2105	33,1		
1820	2485	39,9		

P₁ Max. power input

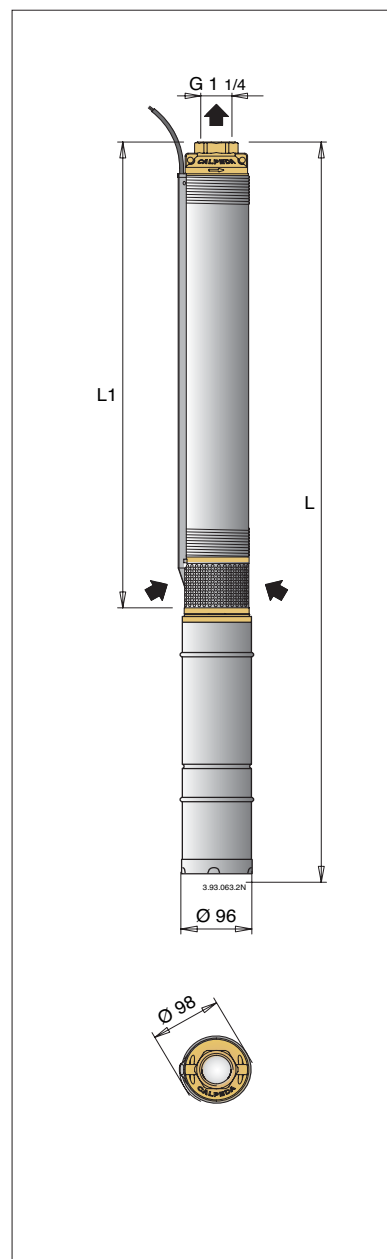
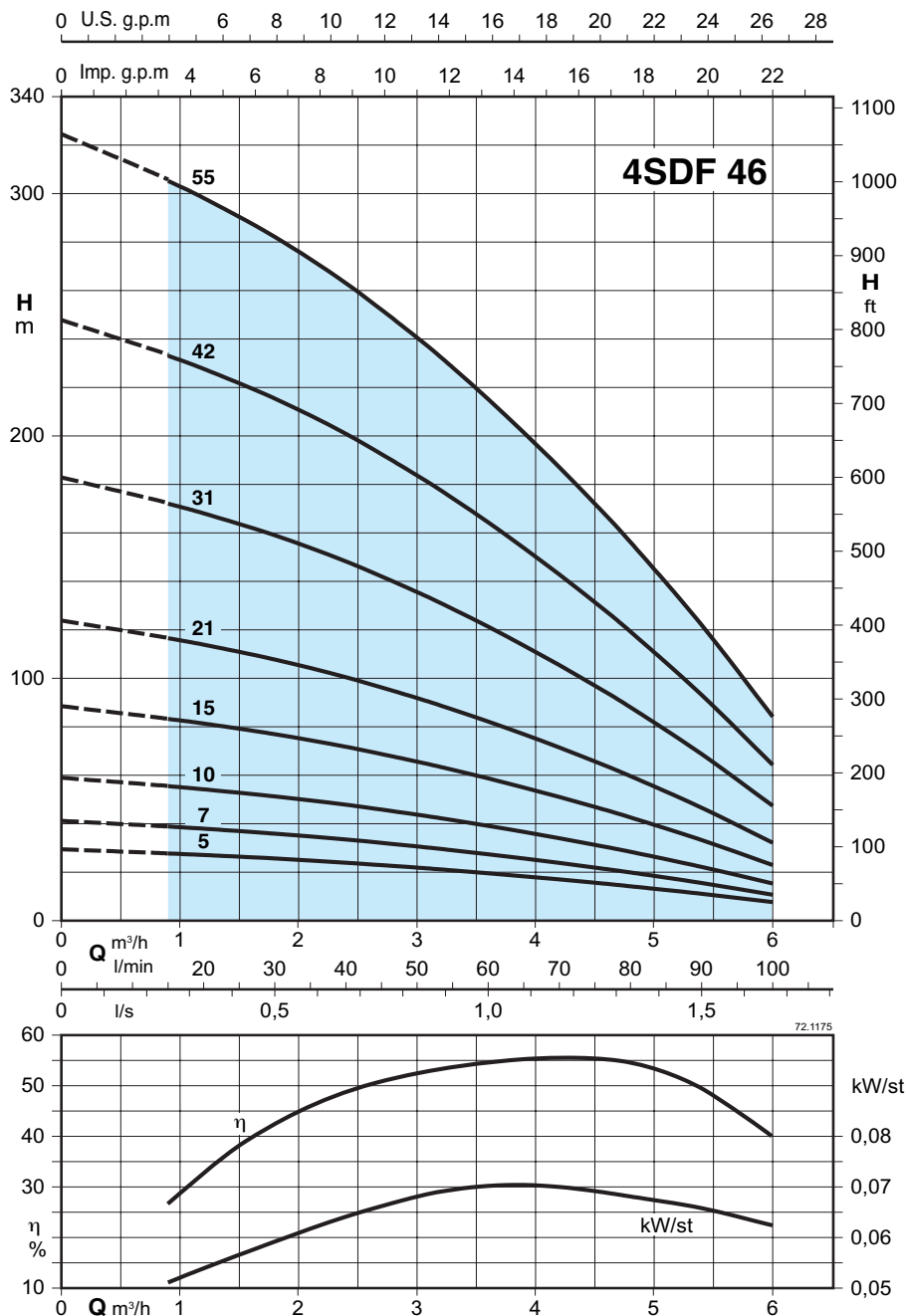
P₂ Rated motor power output

* Only for single-phase motor 230 V - 50 Hz (on request)

H Total head in m

Submersible motor pumps for deep wells of 4"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3~	400 V (380-415) 50 Hz	1~	230V *				P ₂	Q	n ≈ 2900 1/min										
			450 Vc		P ₁	P ₂			m³/h										
			A	μF					kW	HP	0	0,9	1,2	1,8	2,4	3	3,6	4,2	4,8
4SDF 46/5EC	1,45	4SDFM 46/5EC	3,2	16	0,68	0,37	0,5	29,4	27,8	27,1	25,6	23,9	21,9	19,6	17	14,2	7,6		
4SDF 46/7EC	1,7	4SDFM 46/7EC	4,7	25	0,98	0,55	0,75	41,2	38,9	37,9	35,9	33,5	30,6	27,4	23,8	19,9	10,7		
4SDF 46/10EC	2,2	4SDFM 46/10EC	5,8	30	1,23	0,75	1	58,9	55,5	54,2	51,3	47,8	43,7	39,1	34	28,4	15,3		
4SDF 46/15EC	3	4SDFM 46/15EC	8,3	40	1,72	1,1	1,5	88,3	83,3	81,3	76,9	71,7	65,6	58,7	51	42,6	22,9		
4SDF 46/21EC	4,2	4SDFM 46/21EC	12,5	50	2,34	1,5	2	124	117	114	108	100	91,9	82,2	71,4	59,6	32,1		
4SDF 46/31EC	6	4SDFM 46/31EC	15,1	70	3,23	2,2	3	183	172	168	159	148	136	121	105	88	47,4		
4SDF 46/42EC	7,4					3	4	247	233	228	215	201	184	164	143	119	64,2		
4SDF 46/55EC	9,4					4	5,5	324	305	298	282	263	241	215	187	156	84,1		

L1	4SDF		4SDFM	
	L	kg	L	kg
315	625	10,4	625	10,4
370	680	10,9	700	11,9
450	780	12,5	810	13,7
585	945	14,8	975	16,2
740	1130	17,5	1190	20,2
1005	1495	23,2	1505	24,4
1340	1915	31,6		
1685	2350	38,8		

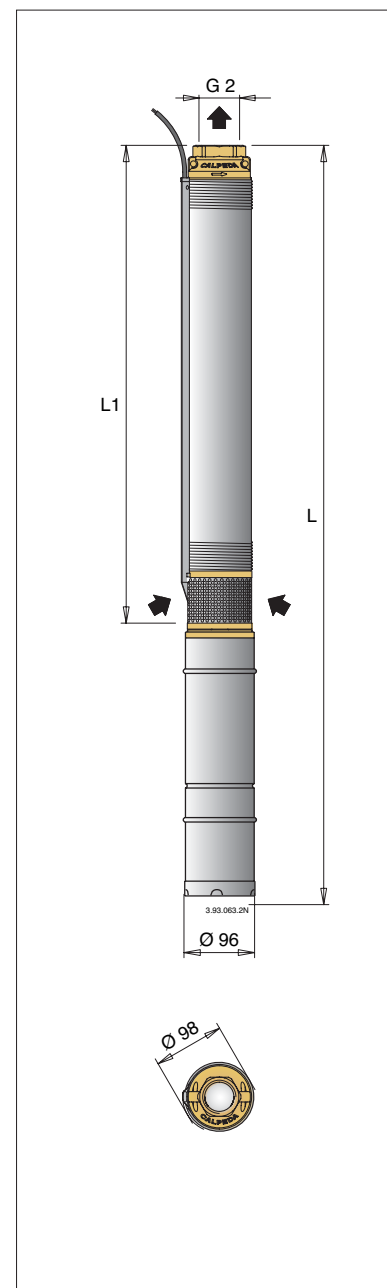
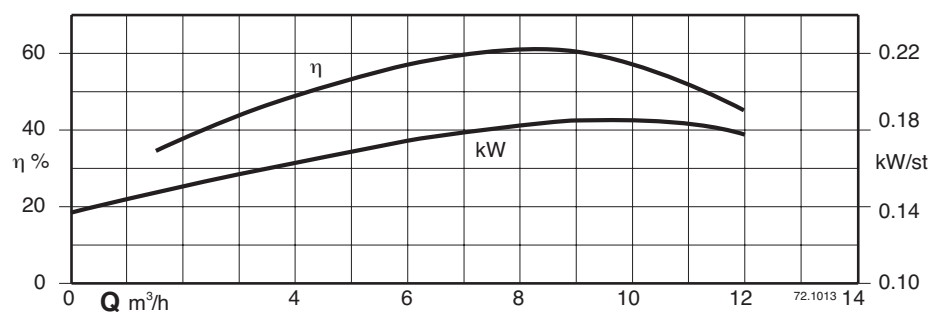
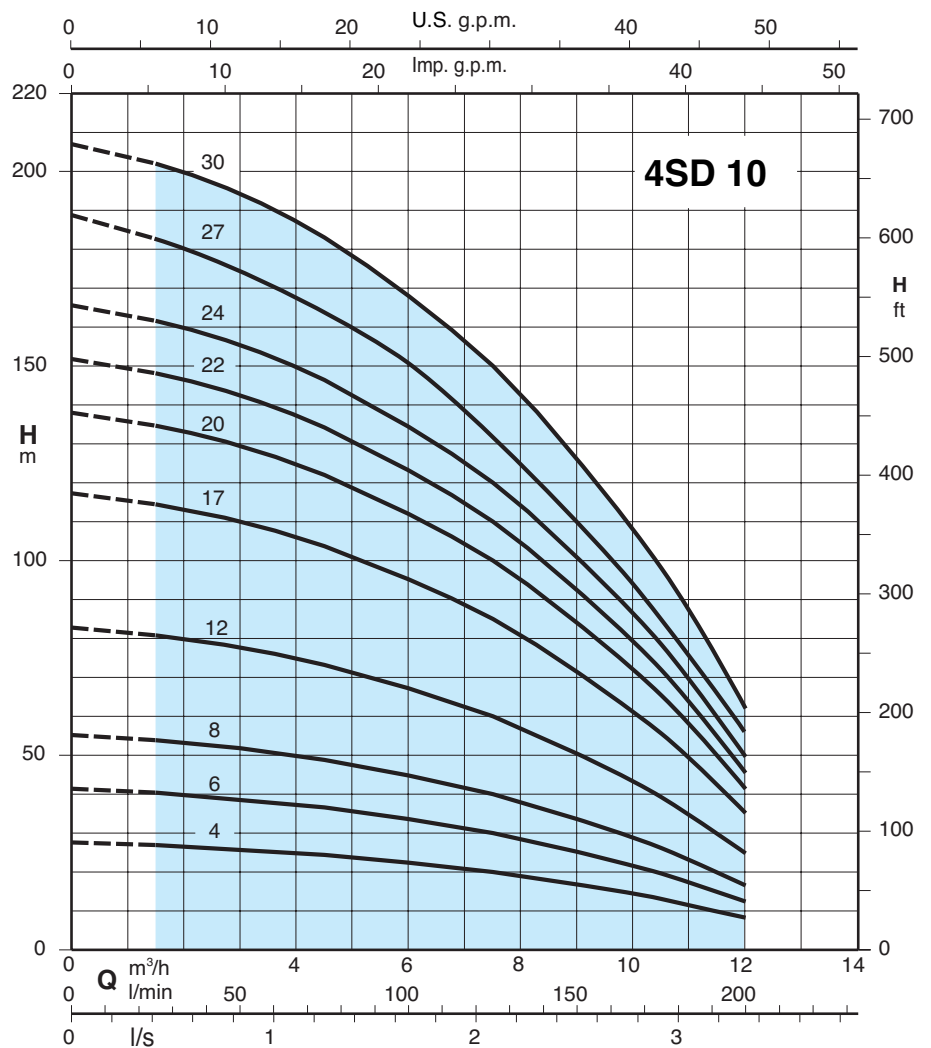
P₁ Max. power input

P₂ Rated motor power output

* Only for single-phase motor 230 V - 50 Hz (on request)

H Total head in m

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3~ 400 V (380-415) 50 Hz A	1~ 230V A	* 450 Vc P ₁ kW		P ₂ kW		HP	Q m³/h l/min	n ≈ 2900 1/min											
		μF	kW	kW	HP			H m											
								1,5	2,4	3	3,6	4,8	6	7,2	8,4	9,6	10,8	12	
4SD 10/4EC	2,2	4SDM 10/4EC	5,8	30	1,23	0,75	1	27	26	26	25	24	23	20	18	17	12	8	
4SD 10/6EC	3	4SDM 10/6EC	8,3	40	1,72	1,1	1,5	40	39	39	38	36	34	31	27	25	18	12	
4SD 10/8EC	4,2	4SDM 10/8EC	12,5	50	2,34	1,5	2	54	53	52	51	48	45	41	36	34	25	16	
4SD 10/12EC	6	4SDM 10/12EC	15,1	70	3,23	2,2	3	81	79	78	76	72	67	61	54	51	37	25	
4SD 10/17EC	7,4					3	4	114	112	111	108	102	95	87	76	72	52	35	
4SD 10/20EC	9,4					4	5,5	134	132	130	127	120	112	102	90	75	61	41	
4SD 10/22EC	9,4					4	5,5	148	145	143	139	132	123	112	99	94	67	45	
4SD 10/24EC	9,4					4	5,5	162	158	156	152	144	134	122	108	102	74	50	
4SD 10/27EC	13					5,5	7,5	182	178	176	171	162	151	138	122	103	83	56	
4SD 10/30EC	13					5,5	7,5	202	198	195	190	180	168	153	135	114	92	62	

L1 mm	4SD		4SDM	
	L mm	kg	L mm	kg
409	739	12,3	769	12,8
515	875	14,2	905	15,1
621	1011	16,5	1071	18,6
833	1323	21,9	1333	22,5
1098	1673	28,1		
1312	1977	36,2		
1418	2083	37		
1524	2189	37,8		
1683	2428	42,1		
1842	2587	43,1		

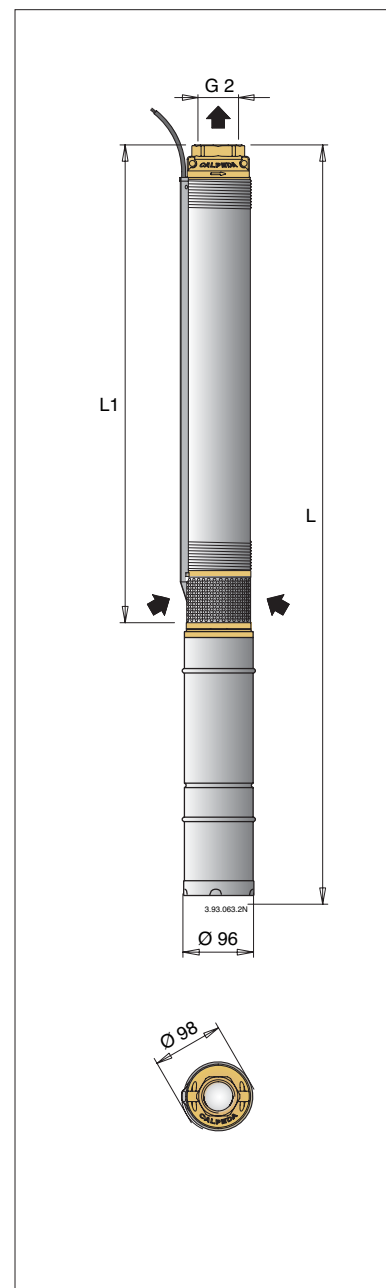
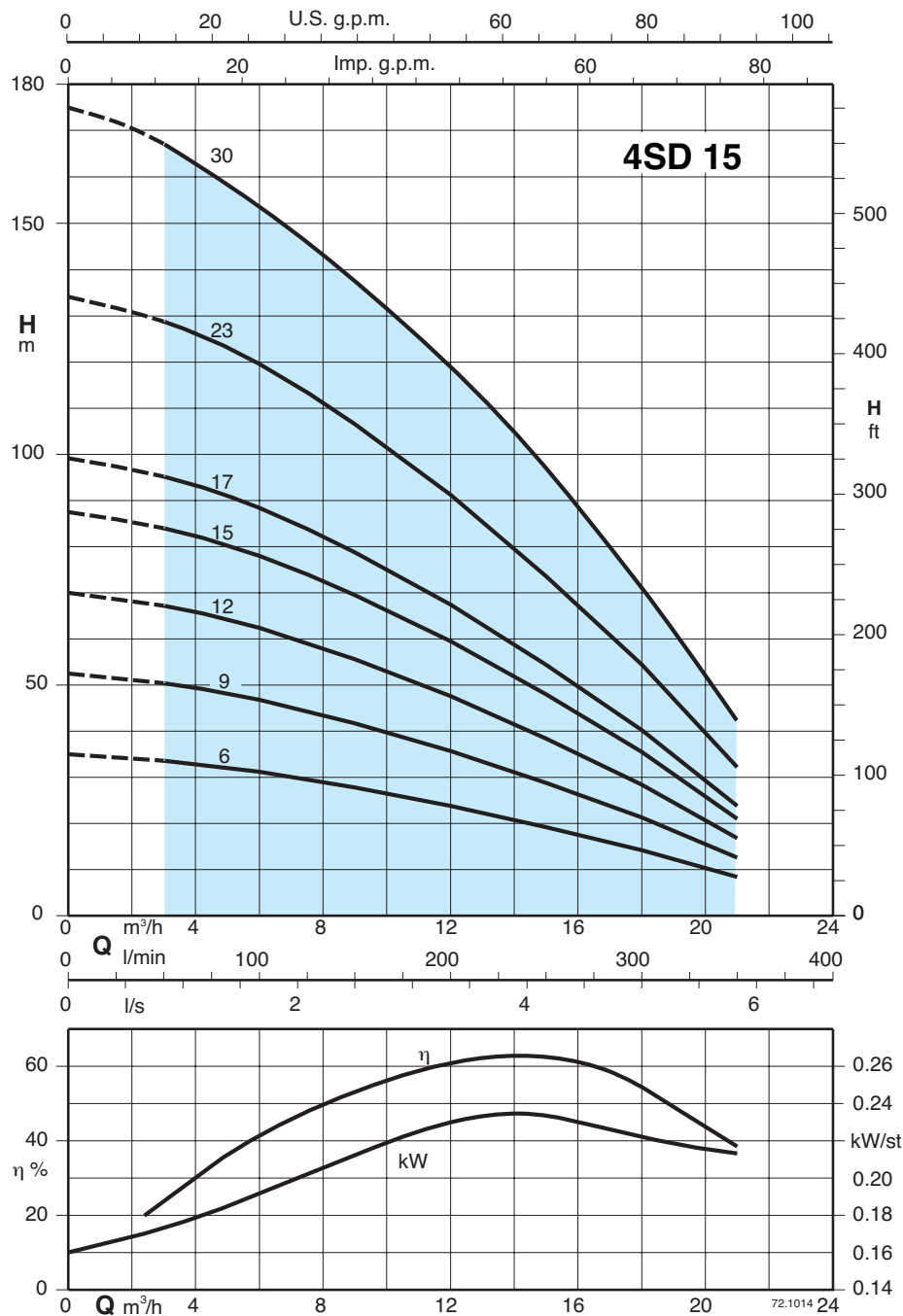
P₁ Max. power input

P₂ Rated motor power output

* Only for single-phase motor 230 V - 50 Hz (on request)

H Total head in m

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



	3~ 400 V (380-415) 50 Hz A	1~ 230V A	* 450 Vc µF kW				P ₂		Q m³/h l/min	n ≈ 2900 1/min															
			50	70	2,34	3,23	kW	HP		3	3,6	4,8	6	7,2	8,4	9,6	10,8	12	15	18	21				
										50	60	80	100	120	140	160	180	200	250	300	350				
4SD 15/6EC	4,2	4SDM 15/6EC	12,5	50	2,34	1,5	2	H m	33	33	32	31	30	29	28	26	24	19	14	8	677	1067	16	1127	18,1
4SD 15/9EC	6	4SDM 15/9EC	15,1	70	3,23	2,2	3		50	49	48	47	45	43	42	38	36	29	21	13	910	1400	28,6	1410	29,2
4SD 15/12EC	7,4					3	4		67	66	64	62	59	57	56	51	48	38	28	17	1144	1719	33,6		
4SD 15/15EC	9,4					4	5,5		84	83	81	78	74	71	69	64	59	48	35	21	1446	2111	40		
4SD 15/17EC	9,4					4	5,5		95	94	92	88	84	81	79	72	67	54	40	24	1601	2266	40,8		
4SD 15/23EC	13					5,5	7,5		129	127	124	120	114	109	107	98	91	74	54	32	2136	2881	48,6		
4SD 15/30E	18,8					7,5 ¹⁾	10 ¹⁾		168	166	162	156	149	142	140	128	119	97	70	42	2681	3455	61,2		

P₁ Max. power input

P₂ Rated motor power output

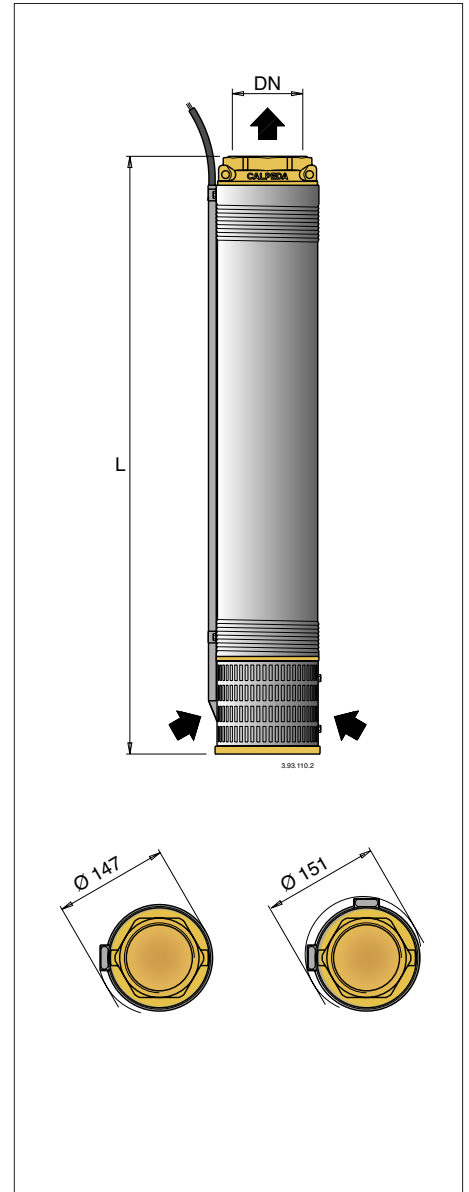
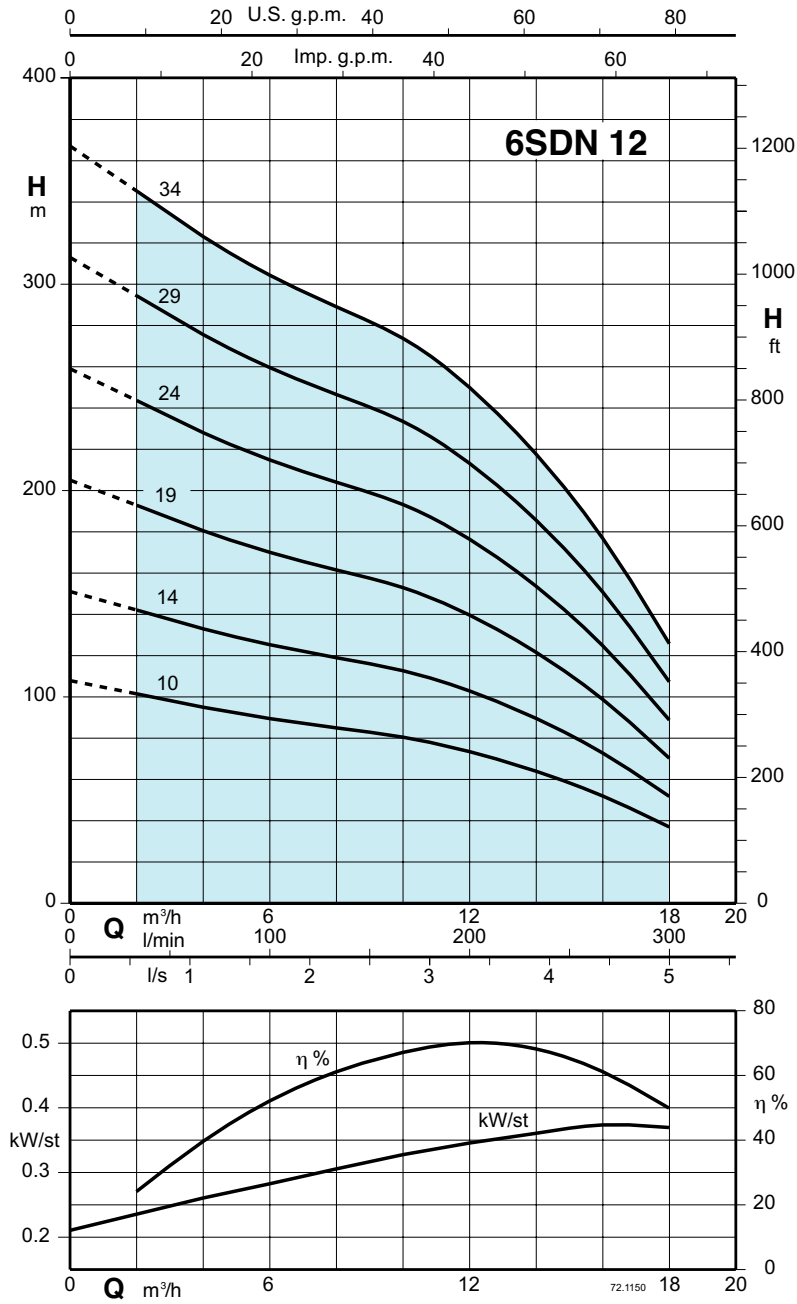
* Only for single-phase motor 230 V - 50 Hz (on request)

H Total head in m

6SDN 12

Submersible motor pumps for deep wells of 6"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3~	P ₂		Q	n ≈ 2900 rpm													
	kW	HP		H													
				2	4	6	8	10	12	14	16	18					
6SDN 12/10	4	5,5	33,3	66,6	100	133,3	166,6	200	233	266	300						
6SDN 12/14	5,5	7,5	102	95	89,5	85	80,5	73,5	64	52	37						
6SDN 12/19	7,5	10	142	133	125	119	113	103	89,5	73	52						
6SDN 12/24	9,2	12,5	193	181	170	162	153	140	122	99	70,5						
6SDN 12/29	11	15	244	231	215	204	193	176	154	125	89						
6SDN 12/34	13 (15)	17,5 (20)	294	276	260	247	233	213	186	151	107						
			345	323	304	289	274	250	218	177	126						

DN	L	
	mm	kg
G 3 ISO 228	715	15,5
	870	17,5
	1060	20
	1320	23
	1510	25,7
	1705	28,5

P₂ Rated motor power output

(...) FK motor rated power output

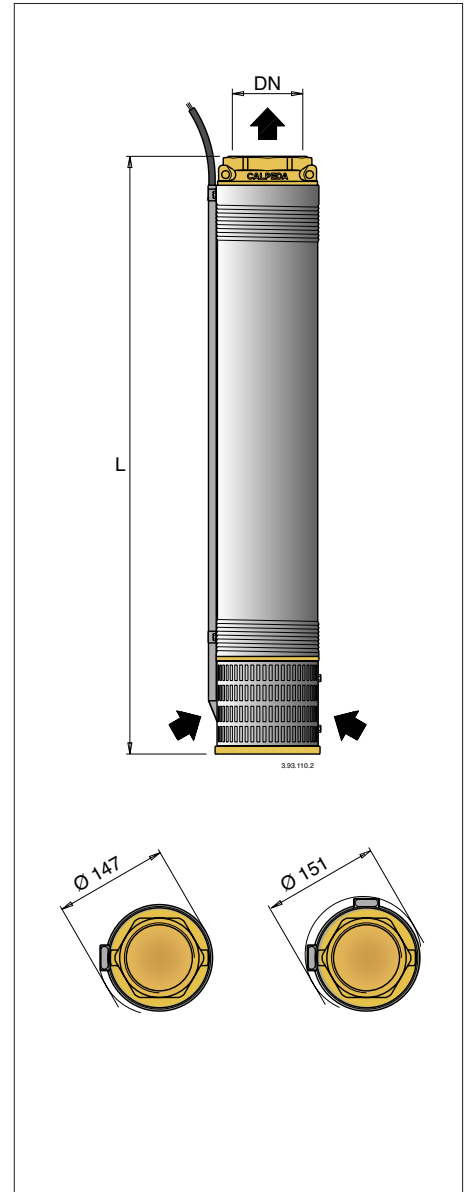
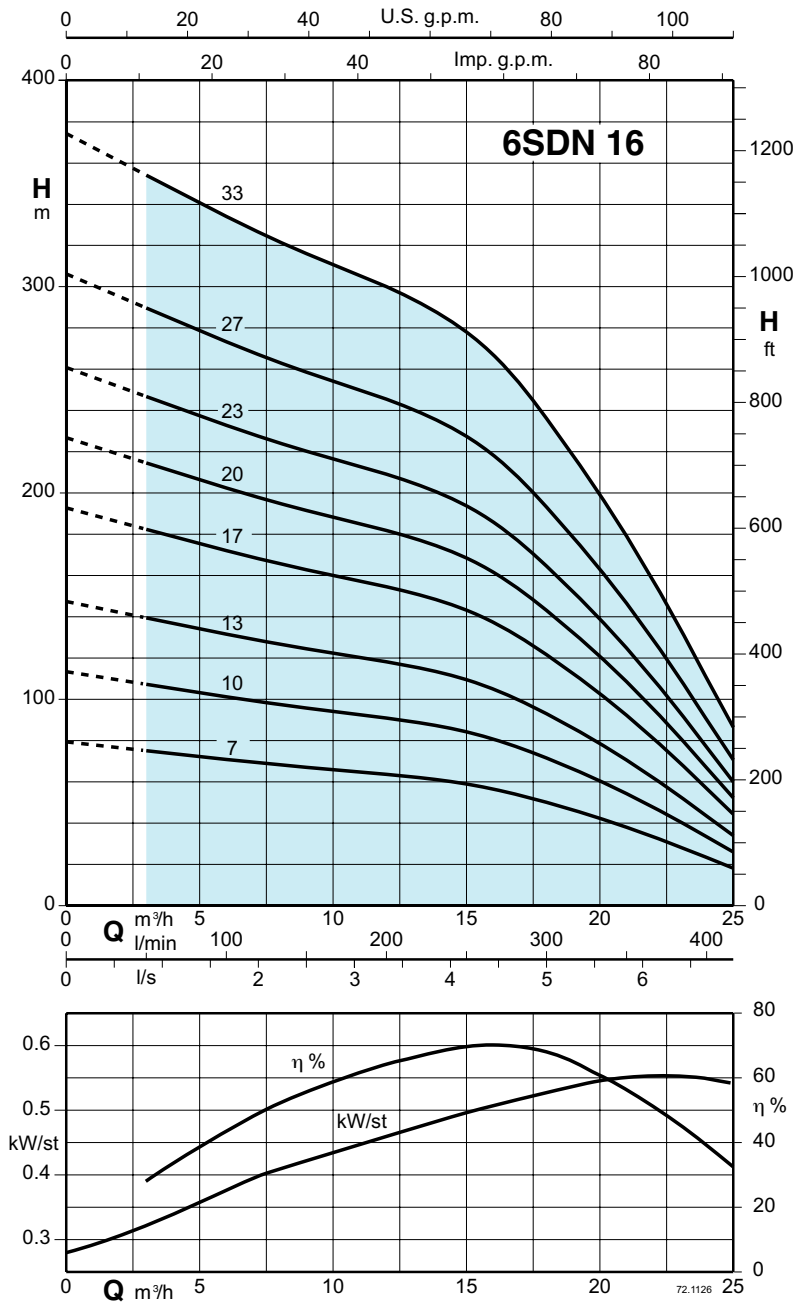
H Total head in m

Tolerances according to ISO 9906, annex A

6SDN 16

Submersible motor pumps for deep wells of 6"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3~	P ₂		Q	n ≈ 2900 rpm											
				3	6	9	12	15	18	21	25				
	kW	HP	m³/h	l/min	50	100	150	200	250	300	350	416,6			
6SDN 16/7	4	5,5	H m	75	71	67	63,5	59	50	38	18,5				
6SDN 16/10	5,5	7,5		107	101	96	91	84	71,5	54,5	26				
6SDN 16/13	7,5	10		139	132	124	118	110	93	70,5	34				
6SDN 16/17	9,2	12,5		182	172	163	155	143	122	92,5	44,5				
6SDN 16/20	11	15		215	202	192	182	168	143	109	52,5				
6SDN 16/23	13 (15)	17,5 (20)		247	233	220	209	194	165	125	60				
6SDN 16/27	15	20		290	273	259	245	227	193	147	71				
6SDN 16/33	18,5	25		354	334	316	300	278	236	179	86,5				

DN	L	
	mm	kg
G 3 ISO 228	600	14
	715	15,5
	830	17
	985	19
	1100	20,5
	1285	22,5
	1435	24,6
	1665	28

P₂ Rated motor power output

(...) FK motor rated power output

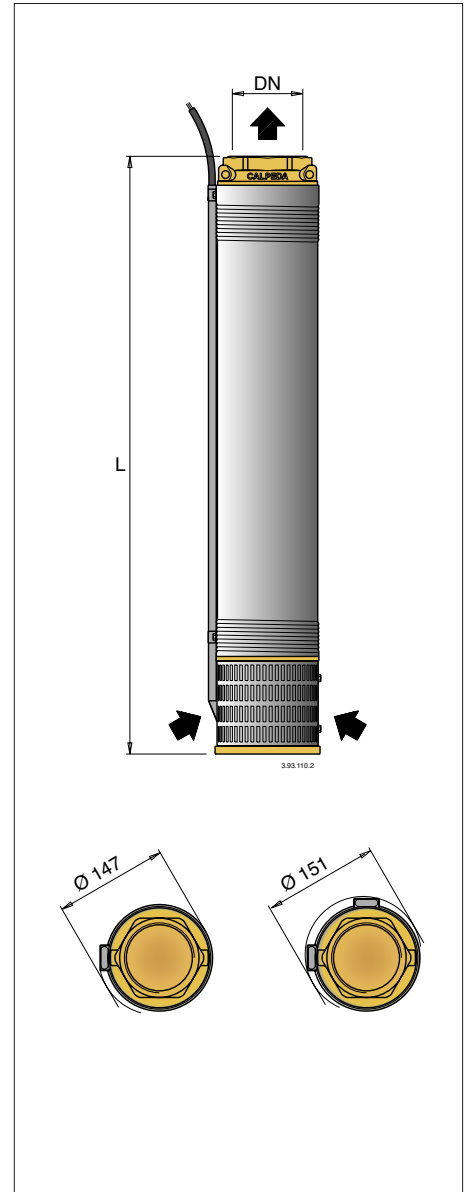
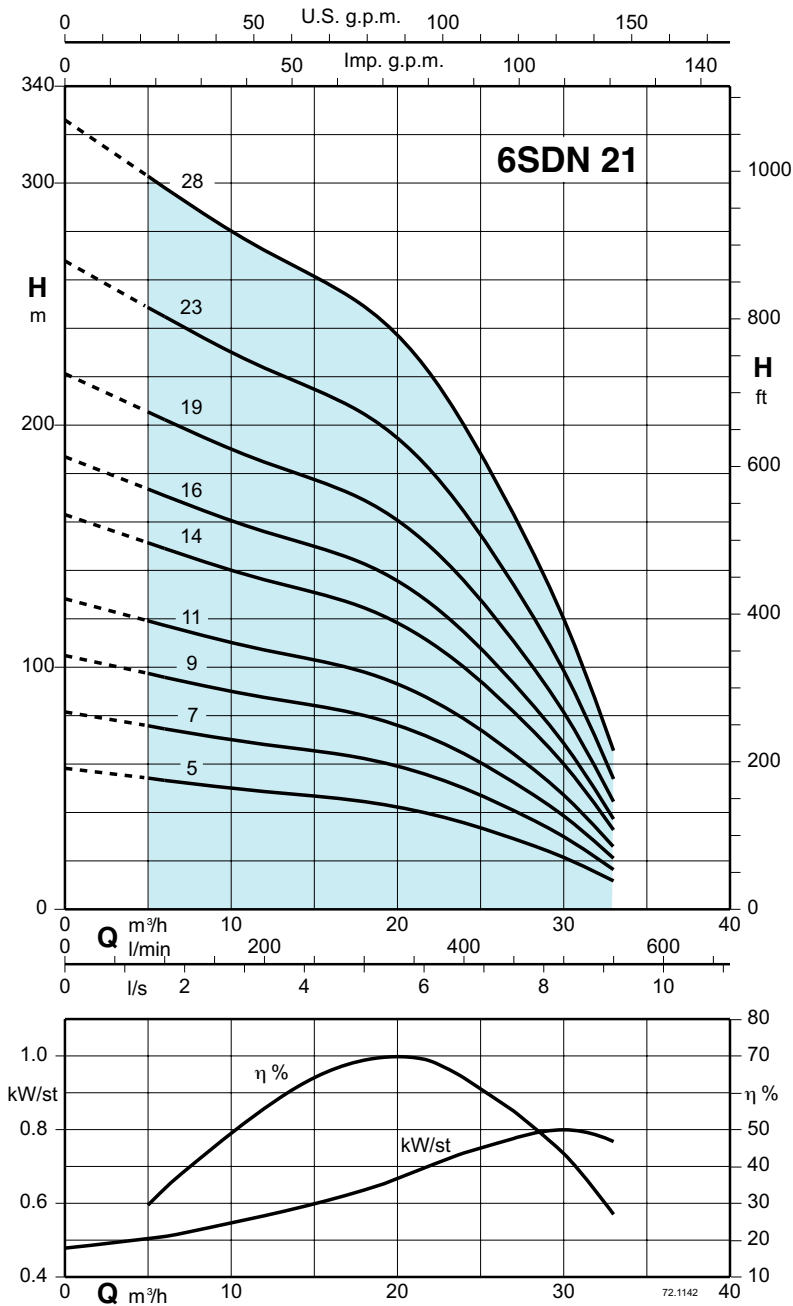
H Total head in m

Tolerances according to ISO 9906, annex A

6SDN 21

Submersible motor pumps for deep wells of 6"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3~	P ₂		Q	n ≈ 2900 rpm											
				m³/h		n ≈ 2900 rpm									
	kW	HP		l/min	5	9	12	15	18	21	24	27	30	33	
6SDN 21/5	4	5,5	H m	54	51	48,5	46,5	45	41,5	36	29	21,5	11,5		
6SDN 21/7	5,5	7,5		75,5	71,5	68	65	62,5	58	50	41	30	16		
6SDN 21/9	7,5	10		97	92	87,5	83,5	80,5	74,5	64,5	53	38,5	21		
6SDN 21/11	9,2	12,5		119	112	107	102	99	91	79	64	47	25,5		
6SDN 21/14	11	15		151	143	136	130	125	116	100	81,5	60	32,5		
6SDN 21/16	13 (15)	17,5 (20)		173	163	155	149	143	132	114	93	69	37		
6SDN 21/19	15	20		205	194	185	176	170	157	136	111	81,5	44		
6SDN 21/23	18,5	25		249	235	224	213	206	190	164	134	99	53		
6SDN 21/28	22	30		303	286	272	260	251	231	200	163	120	64,5		

DN	L	
	mm	kg
G 3 ISO 228	565	13,3
	660	14,5
	755	15,7
	850	16,9
	990	18,7
	1085	19,9
	1225	21,7
	1480	24,5
	1710	27,5

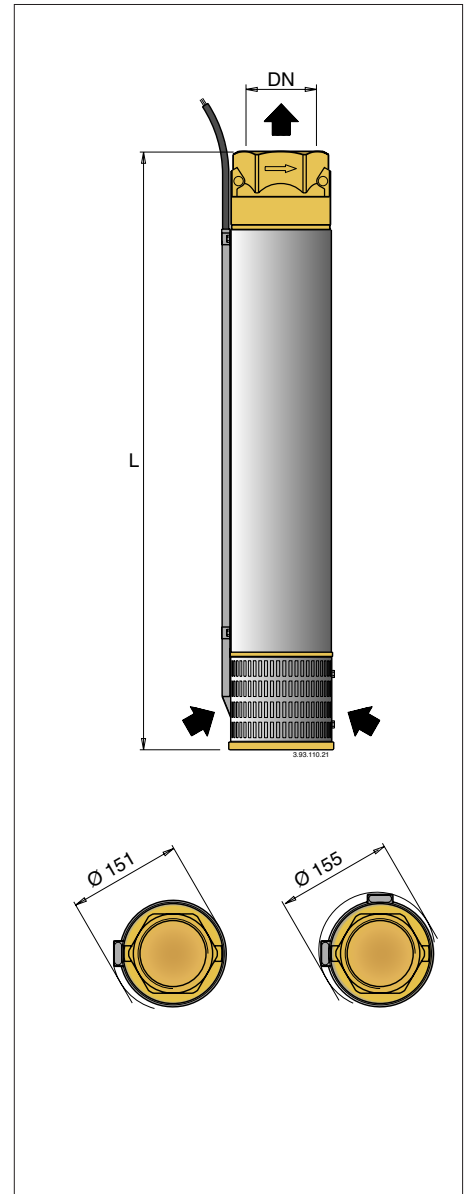
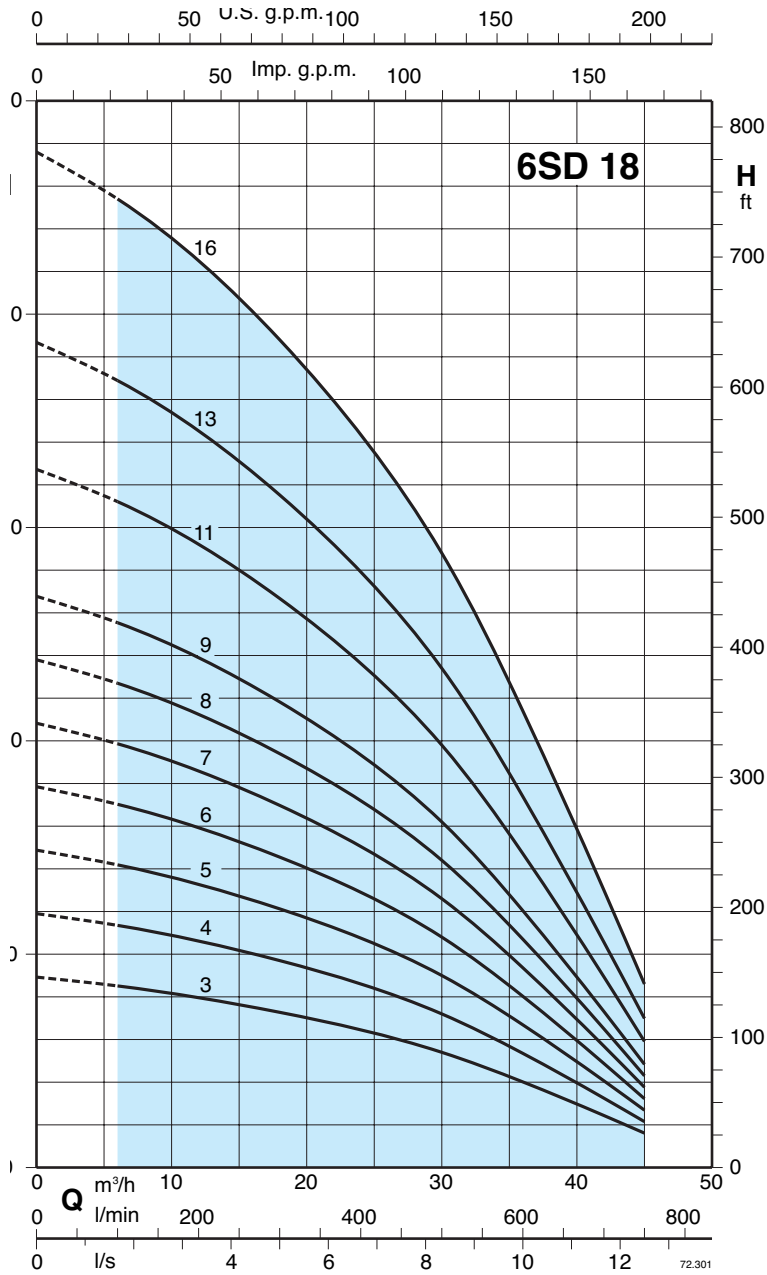
P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to ISO 9906, annex A

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3~	P ₂		Q	n ≈ 2900 rpm											
				m³/h											
	kW	HP		100	200	300	400	500	600	700	750				
6SD 18/3	4	5,5	42	39	36	32	27	20	12	8					
6SD 18/4	5,5	7,5	56	53	48	43	36	27	16	11					
6SD 18/5	7,5	10	70	66	60	53	45	34	21	13					
6SD 18/6	9,2	12,5	85	79	72	64	54	40	25	16					
6SD 18/7	9,2	12,5	100	93	84	75	63	46	28	19					
6SD 18/8	11	15	113	105	96	86	72	54	32	21					
6SD 18/9	13 (15)	17,5 (20)	127	119	108	96	81	60	37	24					
6SD 18/11	15	20	156	145	132	118	99	74	45	30					
6SD 18/13	18,5	25	184	172	157	139	117	87	52	35					
6SD 18/16	22	30	227	213	194	172	144	107	65	43					

DN	L	
	mm	kg
G 3 ISO 228	647	20,5
	756	23
	865	25
	974	27
	1083	29,5
	1192	32
	1301	34,5
	1519	39,5
	1737	43
	2064	50,2

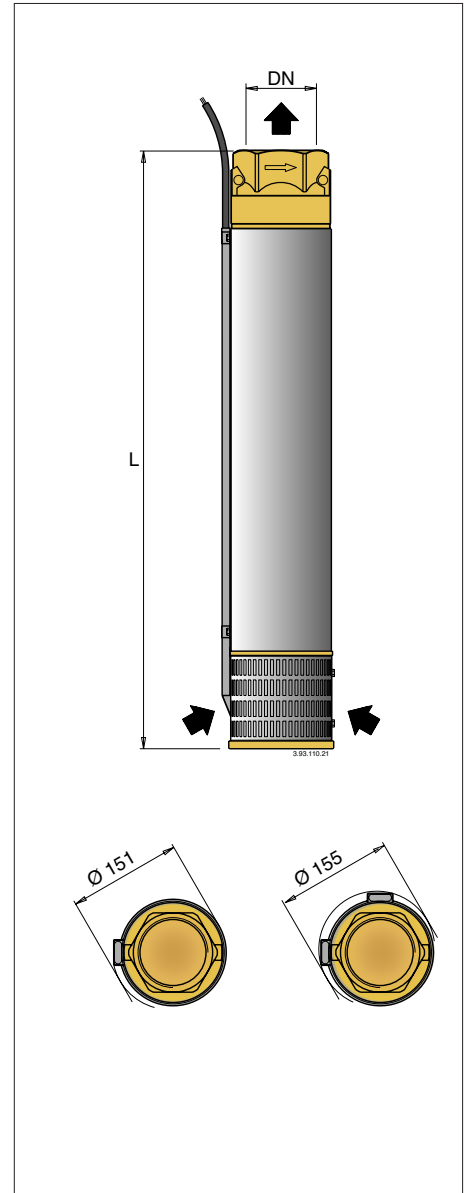
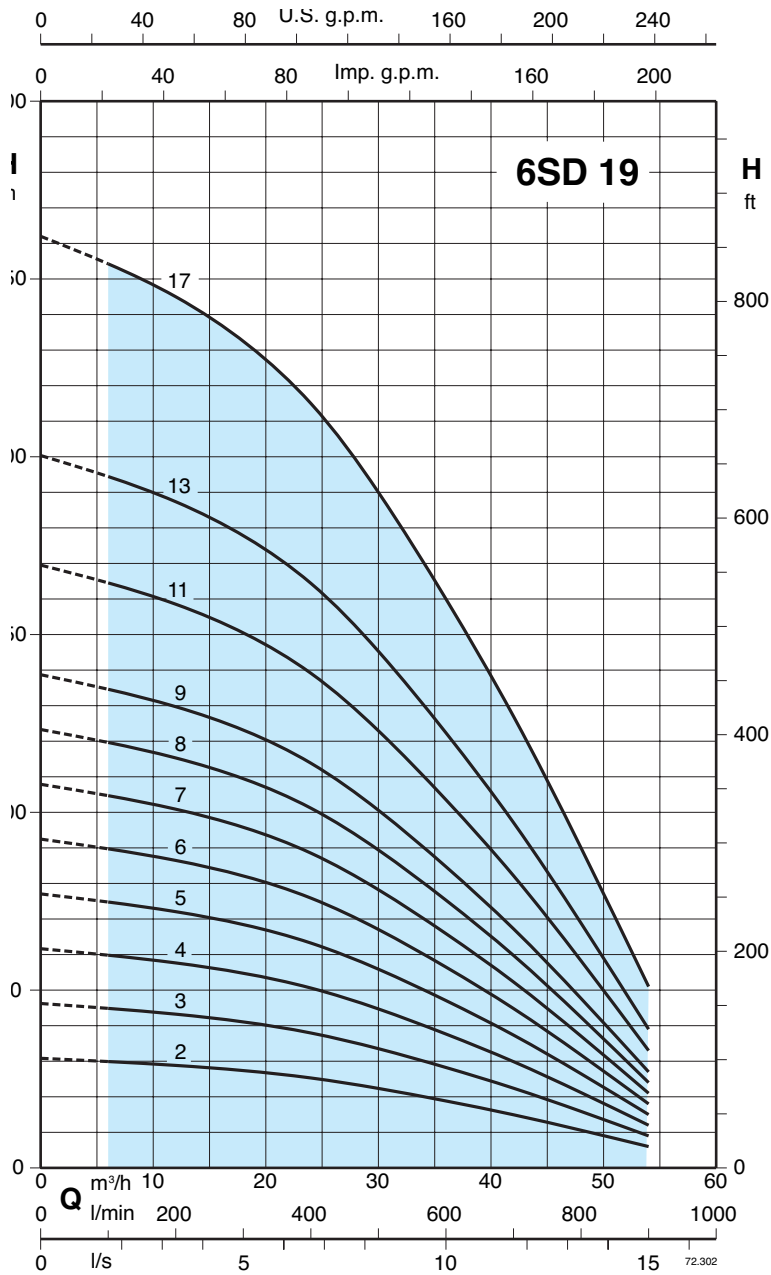
P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to ISO 9906, annex A

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3~	P ₂		Q	n ≈ 2900 rpm												
				H _m												
	kW	HP		m³/h	6	12	18	24	30	36	42	48	54			
6SD 19/2	4	5,5	30	29	27	25	22	19	15	10	6					
6SD 19/3	5,5	7,5	45	43	41	38	33	29	23	15	9					
6SD 19/4	7,5	10	60	57	55	50	45	38	30	21	12					
6SD 19/5	9,2	12,5	75	72	69	63	56	47	38	26	15					
6SD 19/6	11	15	90	86	82	75	67	56	45	31	18					
6SD 19/7	13 (15)	17,5 (20)	105	100	96	88	79	66	53	37	21					
6SD 19/8	15	20	120	115	110	101	89	75	60	42	24					
6SD 19/9	15	20	135	130	123	114	100	85	68	47	27					
6SD 19/11	18,5	25	165	158	151	139	123	104	83	58	33					
6SD 19/13	22	30	195	188	179	164	145	122	98	69	39					
6SD 19/17	30	40	255	245	234	215	190	160	127	90	51					

DN	L	
	mm	kg
G 3 ISO 228	538	18
	647	20,5
	756	23
	865	25
	974	27
	1083	29,5
	1192	32
	1301	34,5
	1519	39,5
	1737	43
2173	53	

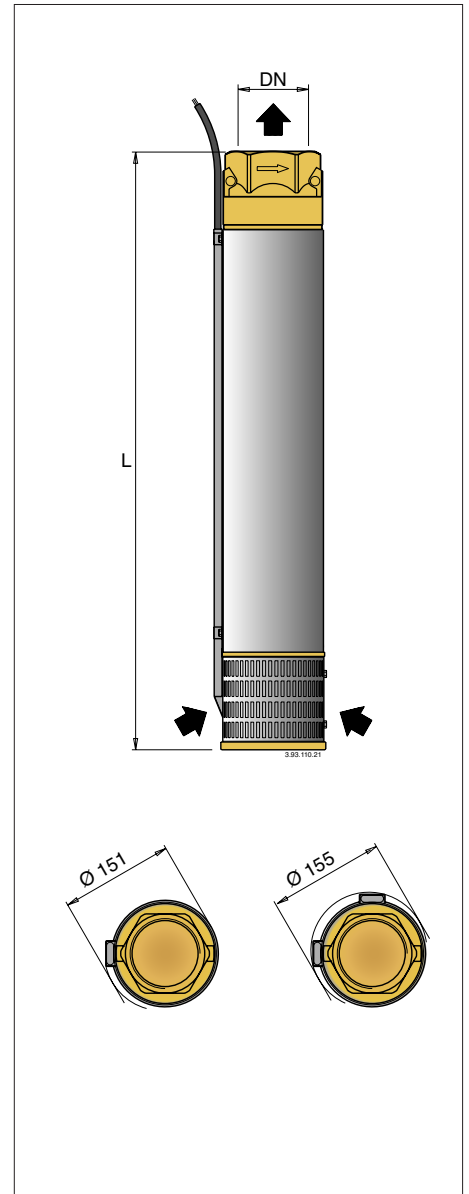
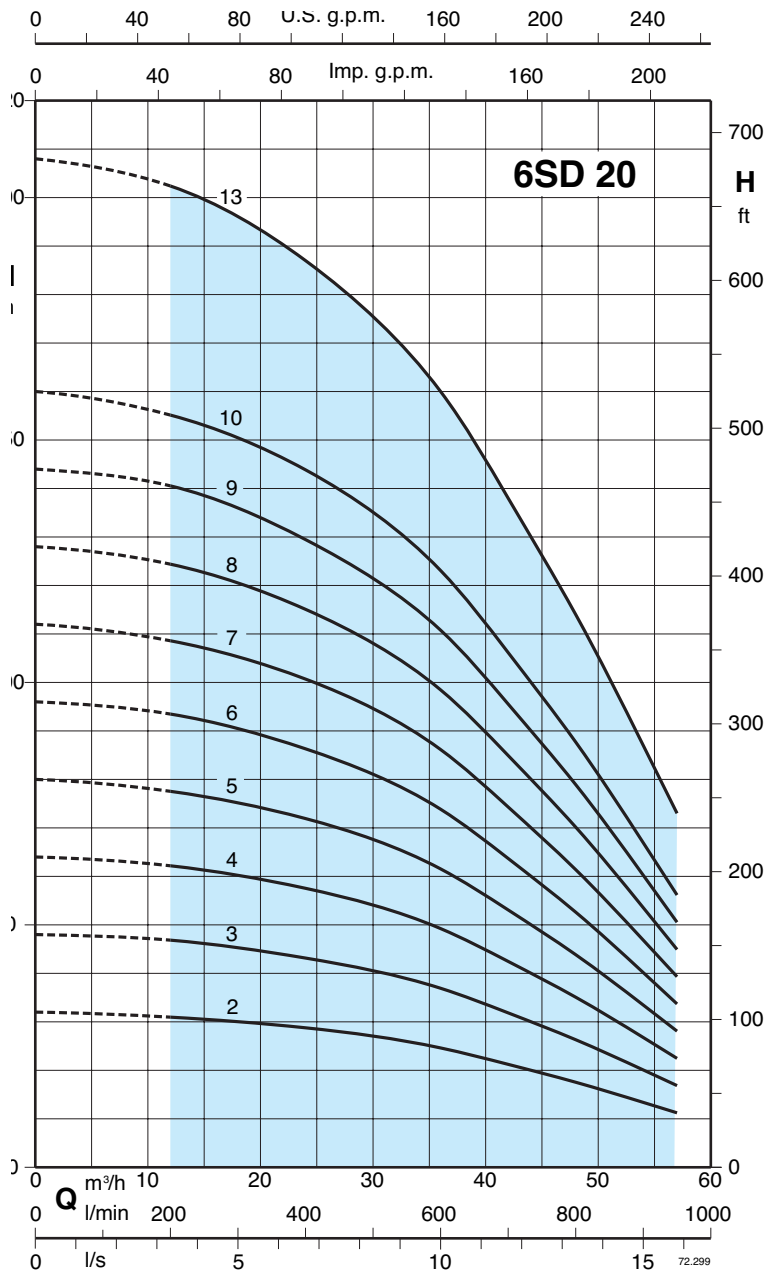
P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to ISO 9906, annex A

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3~	P ₂		Q	n ≈ 2900 rpm											
				H											
	kW	HP		m³/h	12	18	24	30	36	42	48	54	57		
					l/min	200	300	400	500	600	700	800	900	950	
6SD 20/2	5,5	7,5	H m	31	30	29	28	24	21	17	13	11			
6SD 20/3	7,5	10		46	45	44	42	37	32	26	20	17			
6SD 20/4	9,2	12,5		62	60	58	55	49	42	35	26	22			
6SD 20/5	11	15		77	76	73	68	61	53	44	33	28			
6SD 20/6	13 (15)	17,5 (20)		93	91	87	83	73	63	53	40	34			
6SD 20/7	15	20		108	106	102	96	86	74	61	47	39			
6SD 20/8	18,5	25		124	120	115	110	99	85	70	53	45			
6SD 20/9	18,5	25		140	136	130	124	111	96	79	60	51			
6SD 20/10	22	30		155	151	144	138	123	106	88	67	56			
6SD 20/13	30	40		202	196	188	179	160	138	114	87	73			

DN	L1	
	mm	kg
G 3 ISO 228	538	18
	647	20,5
	756	23
	865	25
	974	27
	1083	29,5
	1192	32
	1301	34,5
	1410	36,2
	1737	44,4

P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to ISO 9906, annex A



Materiales

Components	6SDX	6SDX..N	8SDX..N
External jacket	Cr-Ni steel	Cr-Ni-Mo steel	
Suction lantern	AISI 304	AISI 316	
Upper cover	Cr-Ni-Mo steel AISI 316		-
Strainer	Cr-Ni-Mo steel		
Delivery casing	AISI 316		
Valve set	NBR		
O-ring valve	NBR		
Shaft	Cr-Ni-Mo steel AISI 316	Cr-Ni-Mo steel AISI 329	
Coupling set	Cr-Ni-Mo steel AISI 316/329		
Diffuser	Cr-Ni steel	Cr-Ni-Mo steel	
Impeller	AISI 304	AISI 316	
Stage casing	Teflon (PTFE)		
Wear ring	NBR		
Bearing bush	Cr-Ni-Mo steel		
Cable guard	AISI 316		
Screws	AISI 316		

CS Motor

Components	6", 8", 10"
External frame	Cr-Ni steel AISI 304 (Fe P01 plate motor 10")
Supports	GJL 200 EN 1561
Shaft	Hardened and tempered Cr steel AISI 420
Thrust bearing	Oscillation pads
Bushings	Graphite (Bronze for 8" motor of 51-59-66 kW)

Construction

Submersible motor pumps for deep wells of 6" (DN 150 mm) and 8" (DN 200 mm), with external jacket and stages in stainless steel AISI 304 or AISI 316.

Impellers

Radial impellers	Mixed flow impellers
6SDX 13-18-27	6SDX 45-60, 8SDX 78-97

Connection: Screwed connection ISO 228

Delivery casing with built-in non-return valve.

6" pumps with stainless steel external jacket and suction lantern as one piece only.

Applications

For water supply.

For civil and industrial applications.

For fire fighting applications.

For irrigation.

Operating conditions

Liquid temperature up to 25 °C.

Max. sand quantity into the water: 50 g/m³.

Continuous duty.

6", 8", 10" rewindable motor CS series

2-pole induction motor, 50 Hz (n = 2900 rpm).

With water wetted winding in rewindable execution.

Sized for connection to the pumps according to NEMA Standards.

Standard voltages:

- three-phase 400 V; 400/690 V.

Voltage tolerance : +6% / -10%.

Recommended type of starting for powers from 7.5 kW:

star/delta, soft start, impedance starting, autotransformer.

Motor	6"	8"	10"
Max. liquid temperature	25 °C	25 °C	25 °C
Max. starts per hour	15	15	10
Cooling : minimum flow velocity	16 cm/s	20 cm/s	20 cm/s

Insulation PVC coated wire for 6-8-10" motors.

Protection IP 68.

Cable

Motor 400V 50 Hz	Section	Length
6CS 4 ÷ 22 kW	3 + 1 x 4 mm ²	3,5 m
6CS 26 ÷ 30 kW	3 + 1 x 6 mm ²	3,5 m
8CS 37 - 45 kW	3 + 1 x 10 mm ²	4 m
8CS 51 ÷ 59 kW	3 + 1 x 16 mm ²	4 m
8CS 66 - 75 kW	3 + 1 x 25 mm ²	4 m
8CS 92 kW	3 + 1 x 35 mm ²	4 m
10CS 110 kW	3 + 1 x 50 mm ²	4 m

Special features on request

- Other voltages.

- 60 Hz frequency.

- Other temperatures.

- Motor FK series.

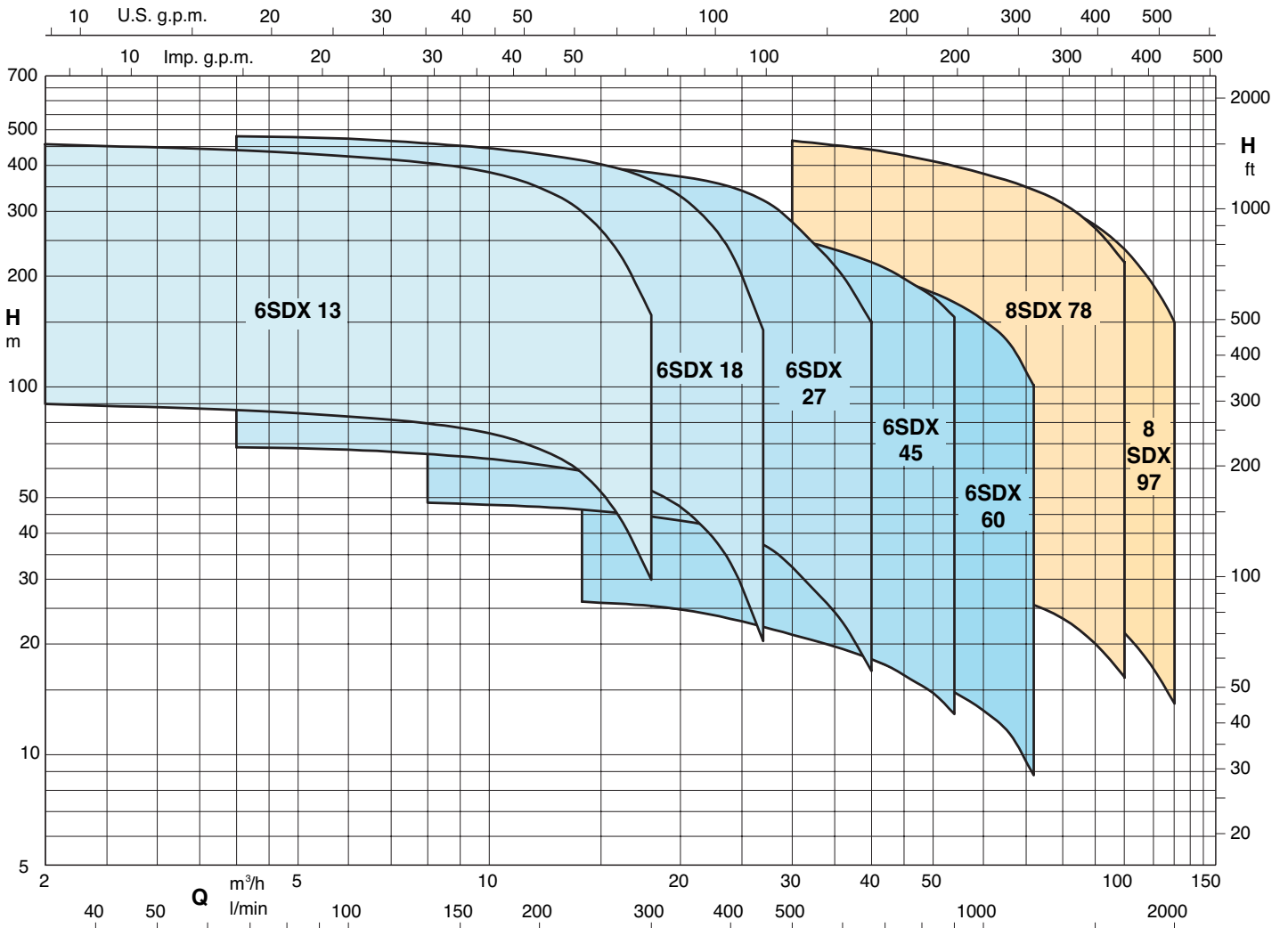
Designation

Ø of the well in inches	_____	6 SDX 13 / 17 N
Series	_____	
Stage identification	_____	
Number of stages	_____	
Cr-Ni-Mo steel AISI 316 construction	_____	



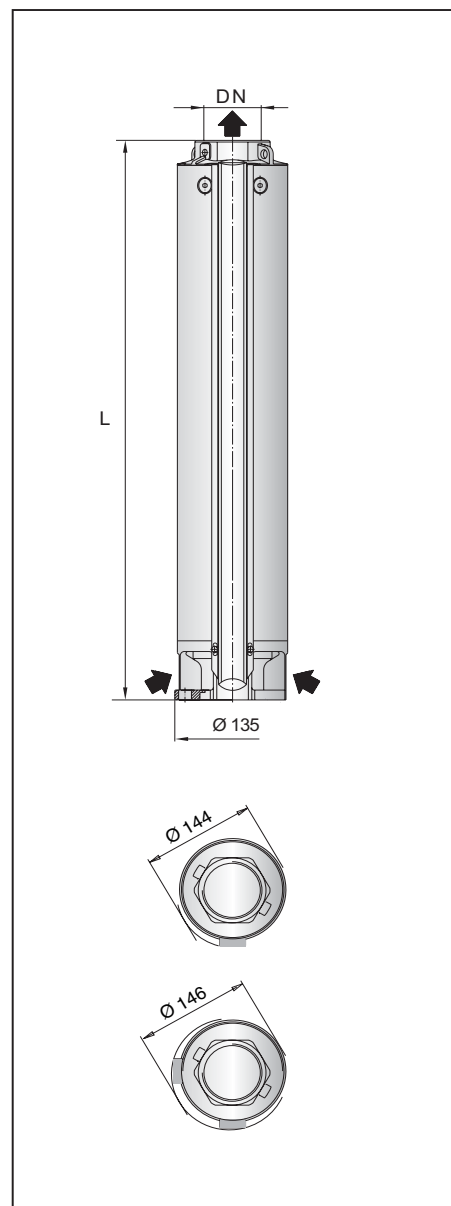
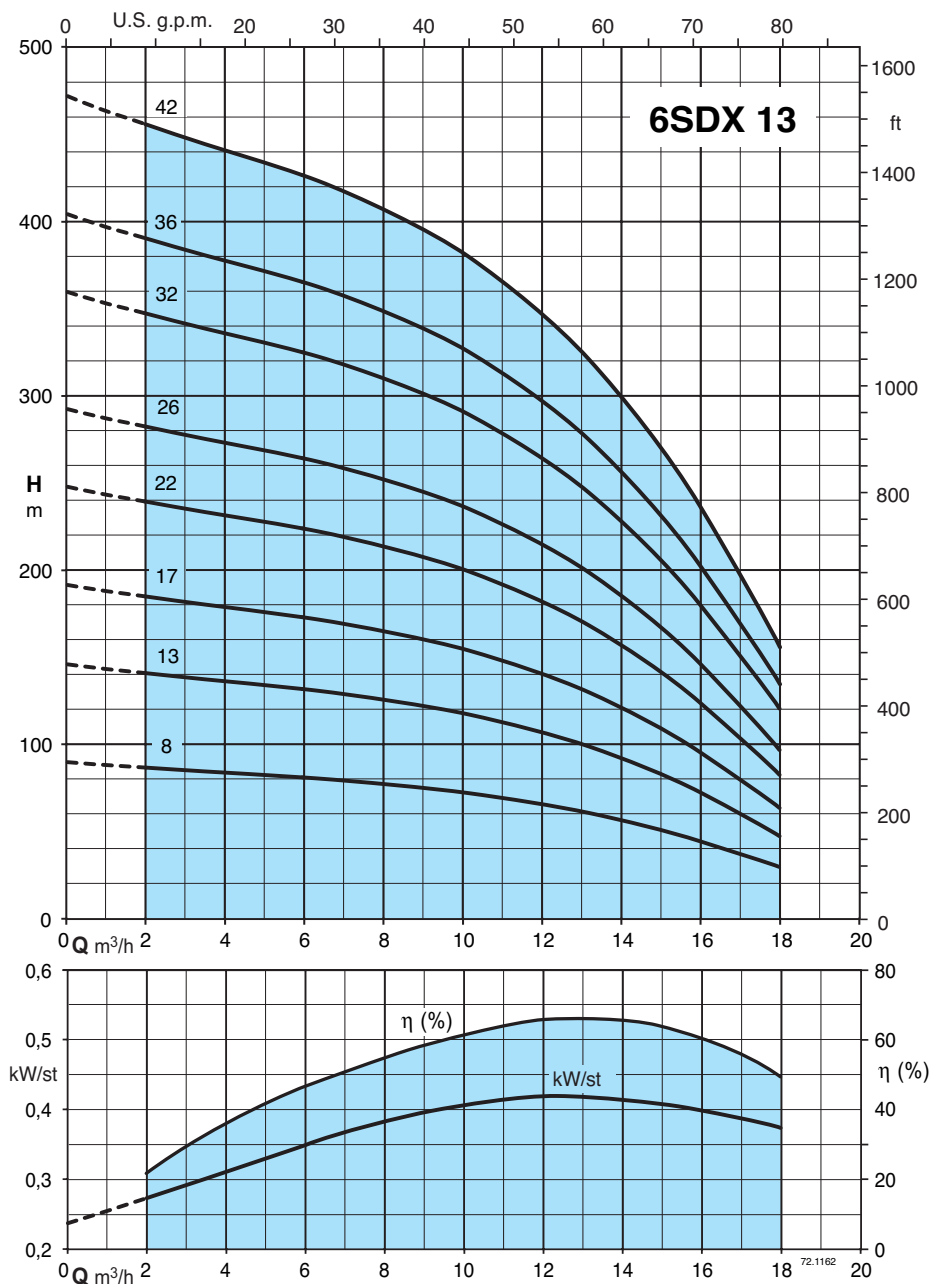
Submersible pumps for deep wells of 6" and 8"

Coverage chart $n \approx 2900$ rpm



Submersible pumps for deep wells of 6"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3 ~	P ₂		Q	n ≈ 2900 1/min										
				m³/h										
	kW	HP	l/min	0	2	4	6	8	10	12	14	16	18	
6SDX 13/8	4	5.5	H m	89,7	86,7	83,8	81,1	77,5	72,7	66,3	57,1	45	29,7	
6SDX 13/13	5.5	7.5		146	141	136	132	126	118	108	92,9	73	48,3	
6SDX 13/17	7.5	10		191	184	178	172	165	154	141	121	95,5	63,1	
6SDX 13/22	9.2	12.5		247	239	231	223	213	200	182	157	124	81,7	
6SDX 13/26	11	15		292	282	273	264	252	236	215	186	146	96,6	
6SDX 13/32	15	20		359	347	335	325	310	291	265	229	180	119	
6SDX 13/36	15	20		404	390	377	365	349	327	298	257	202	134	
6SDX 13/42	18.5	25		471	455	440	426	407	382	348	300	236	156	

DN	L	6SDX
	mm	kg
Rp 2" 1/2	446	13
	596	16.5
	716	19.5
	866	23
	986	26
	1166	30.5
	1286	33.5
	1466	38

P₂ Rated motor power output

(...) FK motor rated power output

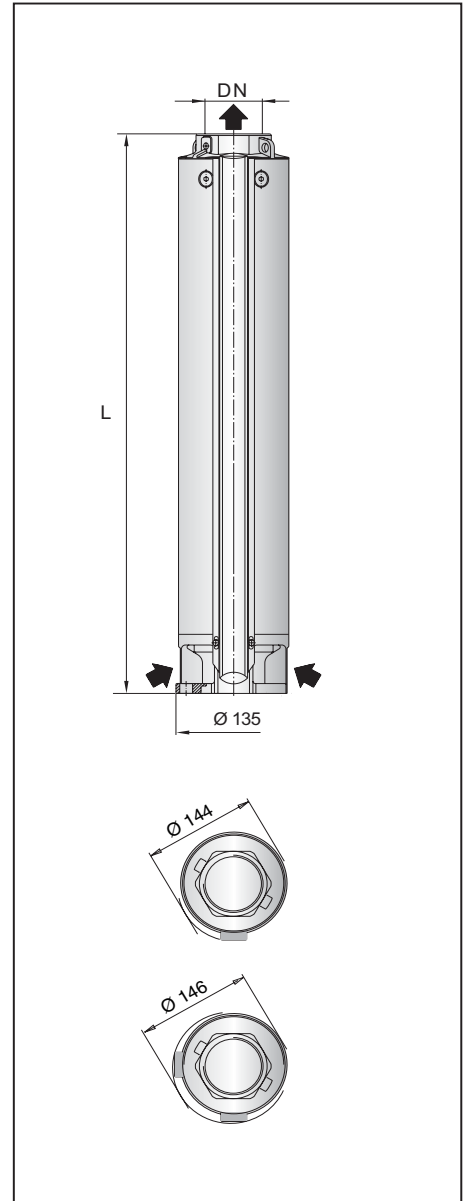
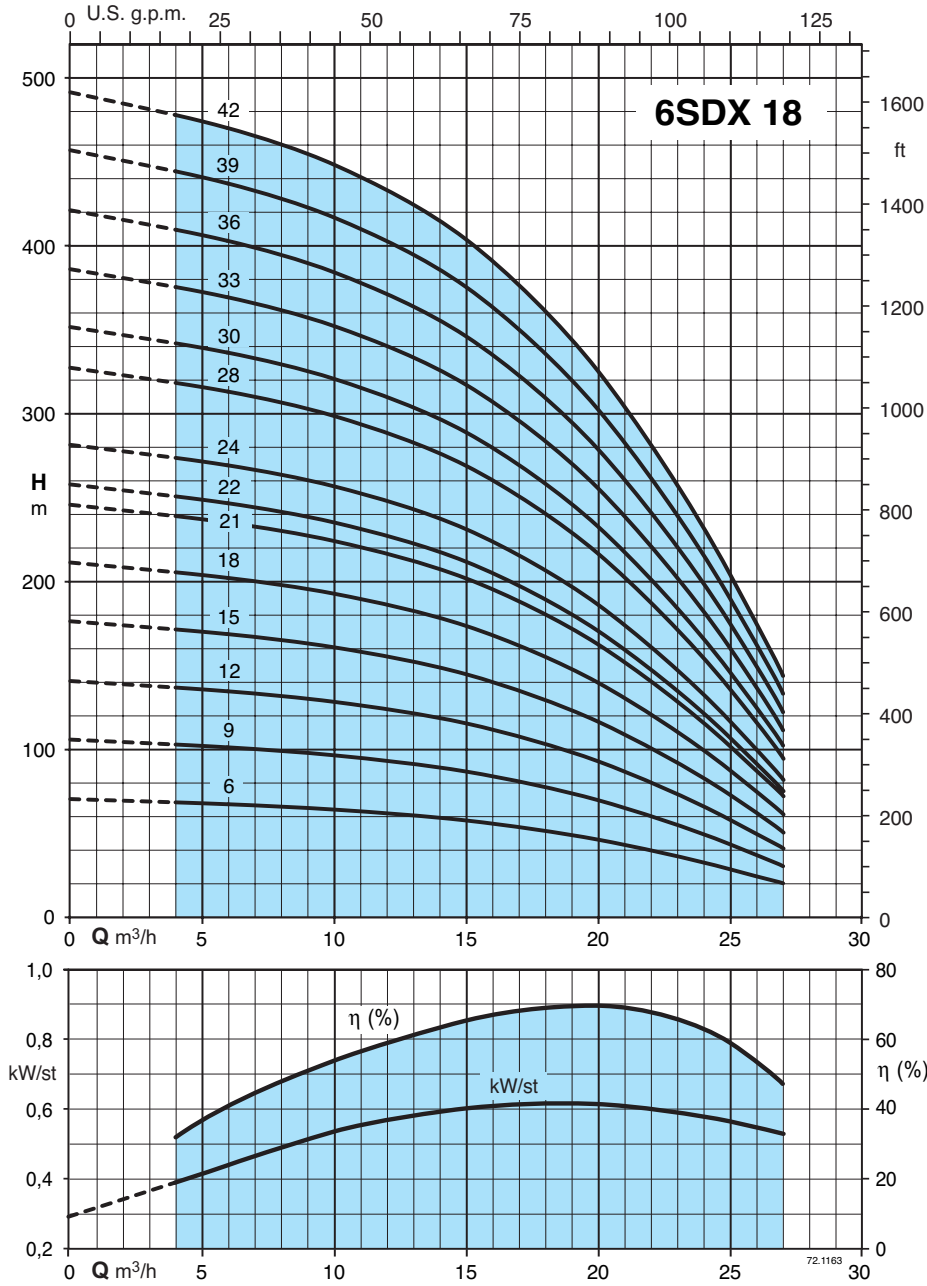
H Total head in m

Tolerances according to ISO 9906, annex A

6SDX 18

Submersible pumps for deep wells of 6"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3 ~	P ₂		Q	n ≈ 2900 1/min																		
	kW	HP		m³/h																		
				0	4	6	9	12	15	18	21	24	27									
6SDX 18/6	4	5.5	70,1	68,3	67,1	64,9	61,9	57,6	51,5	43,3	32,9	20,5										
6SDX 18/9	5.5	7.5	105	102	101	97,3	92,8	86,4	77,3	64,9	49,4	30,8										
6SDX 18/12	7.5	10	140	137	134	130	124	115	103	86,6	65,9	41										
6SDX 18/15	9.2	12.5	175	171	168	162	155	144	129	108	82,3	51,3										
6SDX 18/18	11	15	210	205	201	195	186	173	155	130	98,8	61,5										
6SDX 18/21	13 (15)	17,5 (20)	245	239	235	227	217	202	180	152	115	71,8										
6SDX 18/22	15	20	257	250	246	238	227	211	189	159	121	75,2										
6SDX 18/24	15	20	280	273	269	259	247	230	206	173	132	82										
6SDX 18/28	18.5	25	327	319	313	303	289	269	240	202	154	95,7										
6SDX 18/30	18.5	25	350	341	336	324	309	288	258	216	165	103										
6SDX 18/33	22	30	385	376	369	357	340	317	283	238	181	113										
6SDX 18/36	22	30	420	410	403	389	371	345	309	260	198	123										
6SDX 18/39	26 (30)	35 (40)	455	444	436	422	402	374	335	281	214	133										
6SDX 18/42	26 (30)	35 (40)	491	478	470	454	433	403	361	303	231	144										

DN	L	6SDX
	mm	kg
Rp 2" 1/2	431	12
	543.5	14.5
	656	16.5
	768.5	19
	881	21.5
	993.5	24
	1031	25
	1106	26.5
	1256	30
	1331	31.5
	1443.5	34
	1556	36.5
1668	39	
1853	42	

P₂ Rated motor power output

(...) FK motor rated power output

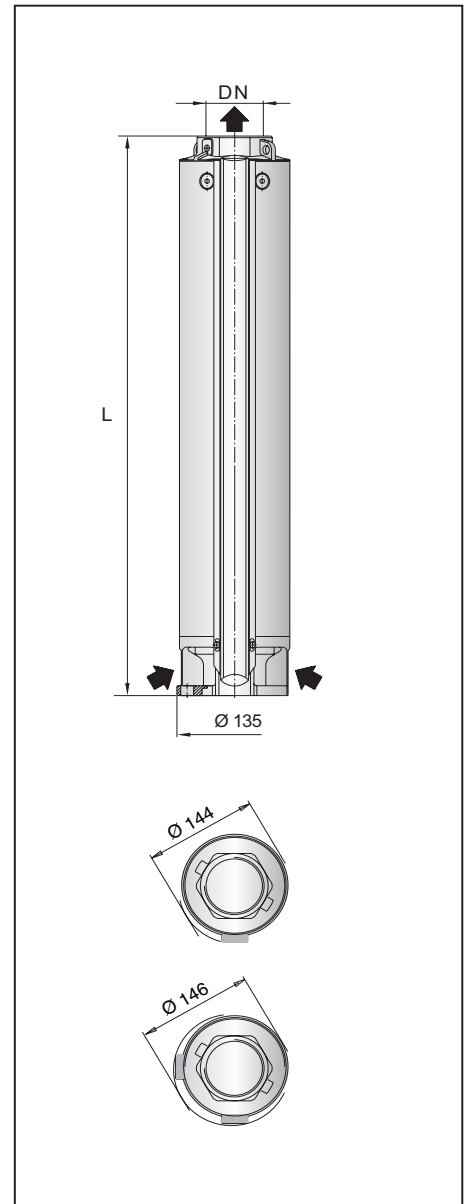
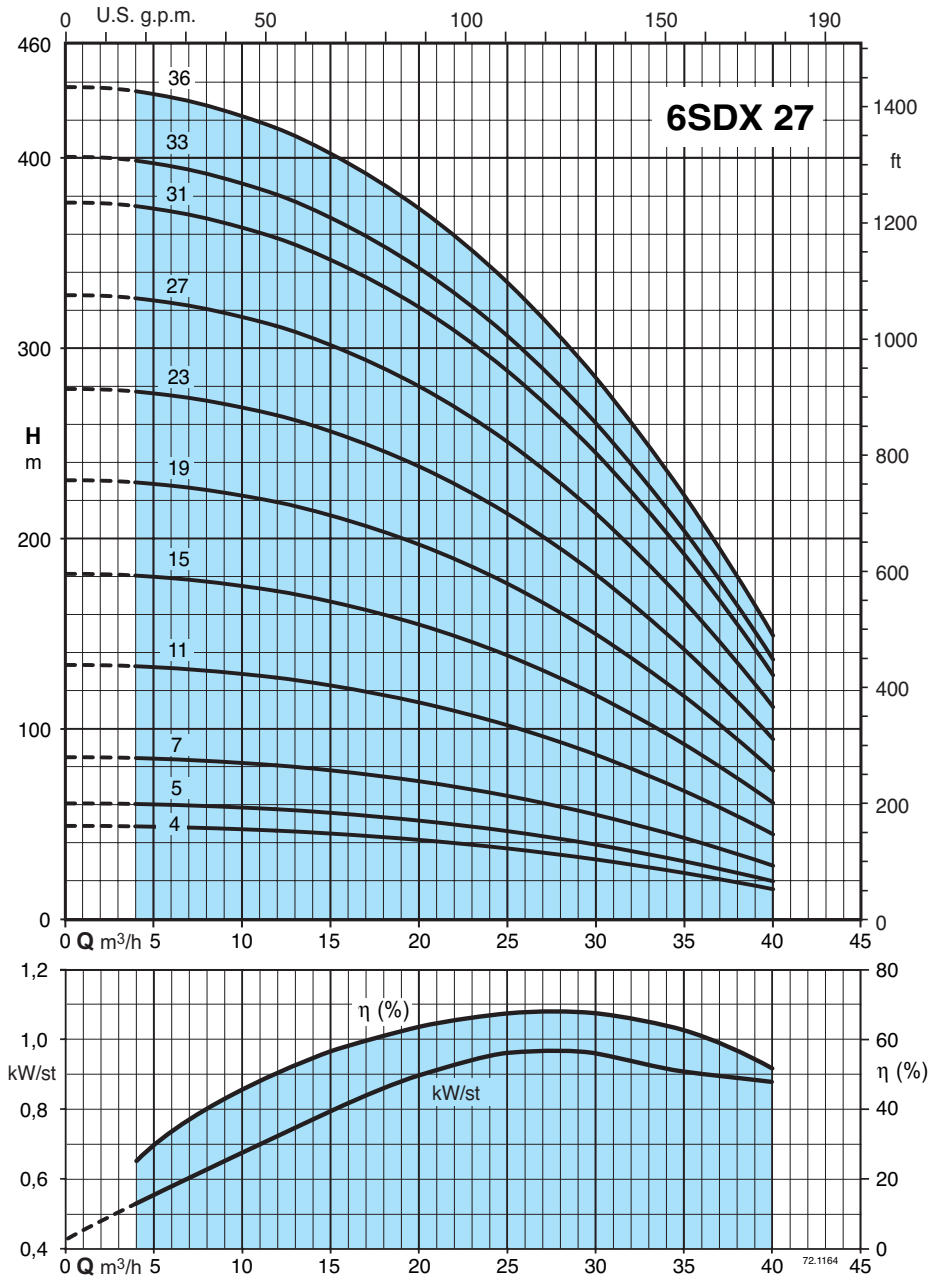
H Total head in m

Tolerances according to ISO 9906, annex A

6SDX 27

Submersible pumps for deep wells of 6"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3 ~	P ₂		Q	$n \approx 2900$ 1/min											
	kW	HP		m³/h	0	4	8	12	16	20	24	28	32	36	40
				l/min	0	66,6	133	200	266	333	400	466	533	600	666
6SDX 27/4	4	5.5	H m	48,4	48,2	48	46,4	43,8	41	38,1	33,4	28	22,8	16	
6SDX 27/5	5.5	7.5		60,5	60,2	60	58	54,7	51,2	47,6	41,8	35	28,5	20	
6SDX 27/7	7.5	10		84,7	84,3	84	81,2	76,6	71,7	66,6	58,5	49	39,9	28	
6SDX 27/11	11	15		134	133	131	127	121	114	105	93,2	79,7	63,9	45,8	
6SDX 27/15	15	20		183	181	178	173	165	156	143	127	109	87,1	62,5	
6SDX 27/19	18.5	25		231	230	226	219	209	197	181	161	138	110	79,2	
6SDX 27/23	22	30		280	278	273	265	253	239	219	195	167	134	95,8	
6SDX 27/27	26 (30)	35 (40)		329	326	321	311	297	281	257	229	196	157	113	
6SDX 27/31	30	40		377	375	369	357	341	322	295	263	225	180	129	
6SDX 27/33	(37)	(50)		402	399	392	380	363	343	314	280	239	192	138	
6SDX 27/36	(37)	(50)		438	435	428	415	397	374	343	305	261	209	150	

DN	L	6SDX
	mm	kg
Rp 3"	412	11.5
	458.5	12.5
	551.5	14.5
	737.5	18.5
	923.5	22.5
	1109.5	26
	1295.5	30
	1481.5	34
	1667.5	38
	1760	40
1899.5	43	

P₂ Rated motor power output

(...) FK motor rated power output

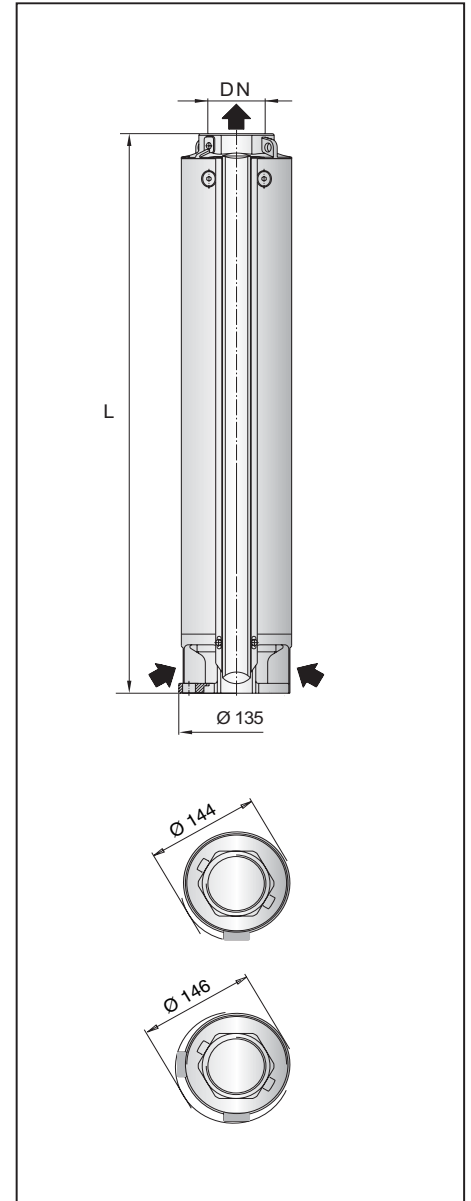
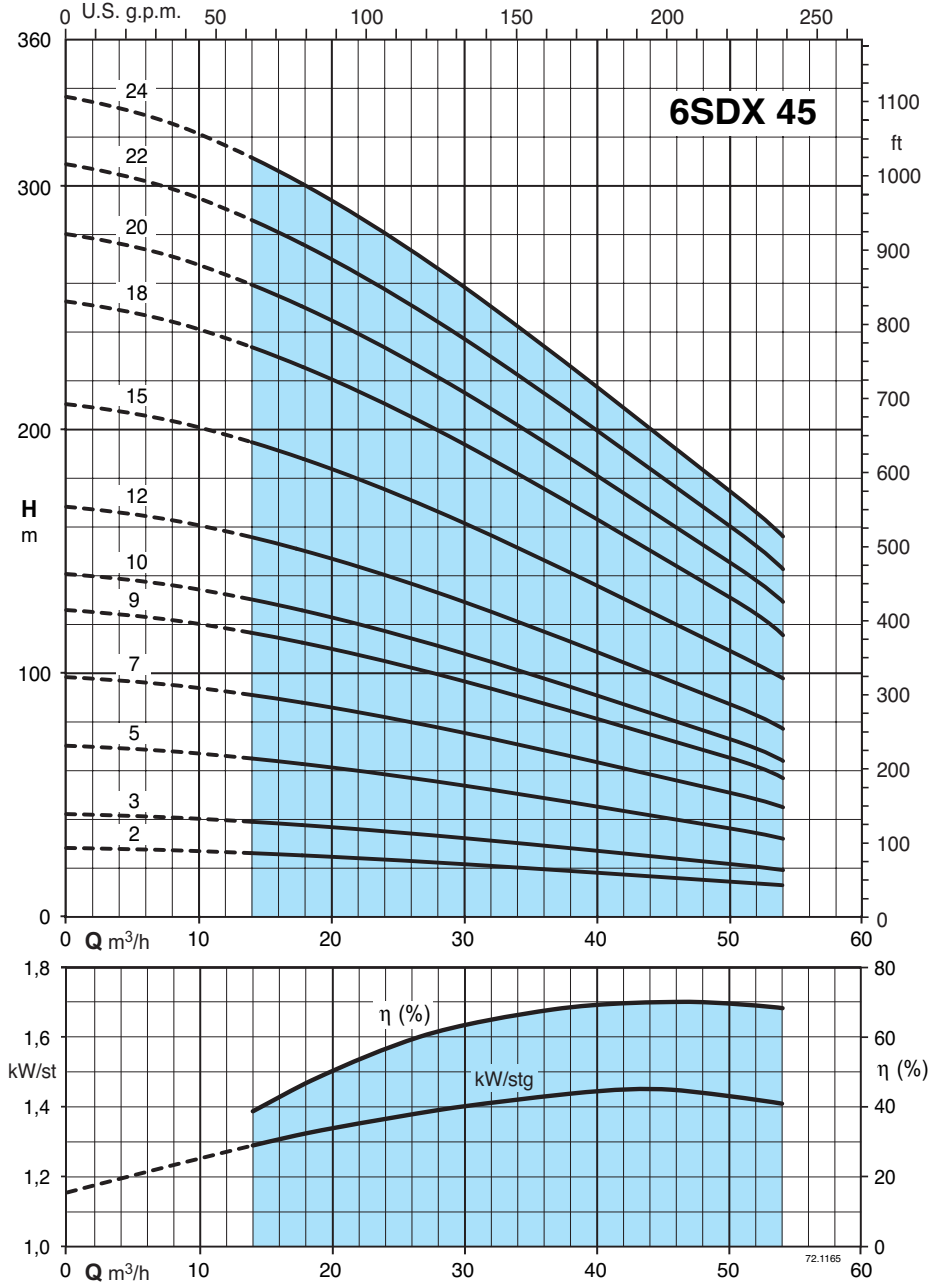
H Total head in m

Tolerances according to ISO 9906, annex A

6SDX 45

Submersible pumps for deep wells of 6"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3 ~	P ₂		Q	n ≈ 2900 1/min												
	kW	HP		m³/h	0	14	18	22	26	30	34	38	42	46	50	54
				l/min	0	233	300	366	433	500	566	633	700	766	833	900
6SDX 45/2	4	5.5	H m	28	25,9	25	23,9	22,8	21,5	20,2	18,8	17,4	16	14,5	13	
6SDX 45/3	5.5	7.5		42	38,9	37,5	35,9	34,2	32,3	30,3	28,1	26,1	24,1	21,8	19,5	
6SDX 45/5	7.5	10		70	64,8	62,5	59,8	57	53,8	50,4	46,9	43,5	40,1	36,4	32,5	
6SDX 45/7	11	15		98	90,7	87,5	83,7	79,8	75,3	70,6	65,6	61	56,1	50,9	45,5	
6SDX 45/9	13 (15)	17,5 (20)		126	117	113	108	103	96,8	90,8	84,4	78,4	72,2	65,4	58,5	
6SDX 45/10	15	20		140	130	125	120	114	108	101	93,8	87,1	80,2	72,7	65	
6SDX 45/12	18.5	25		168	156	150	144	137	129	121	113	105	96,2	87,3	78	
6SDX 45/15	22	30		210	194	188	179	171	161	151	141	131	120	109	97,5	
6SDX 45/18	26 (30)	35 (40)		252	233	225	215	205	194	182	169	157	144	131	117	
6SDX 45/20	30	40		280	259	250	239	228	215	202	188	174	160	145	130	
6SDX 45/22	(37)	(50)		308	285	275	263	251	237	222	206	192	176	160	143	
6SDX 45/24	(37)	(50)		336	311	300	287	274	258	242	225	209	192	175	156	

DN	L	6SDX
	mm	kg
Rp 3"	365.5	11
	458.5	13.5
	644.5	18
	830.5	22.5
	1016.5	27
	1109.5	29.5
	1295.5	34
	1574.5	40.5
	1853.5	47.5
	2039.5	52
	2225.5	56.5
2411	61	

P₂ Rated motor power output

(...) FK motor rated power output

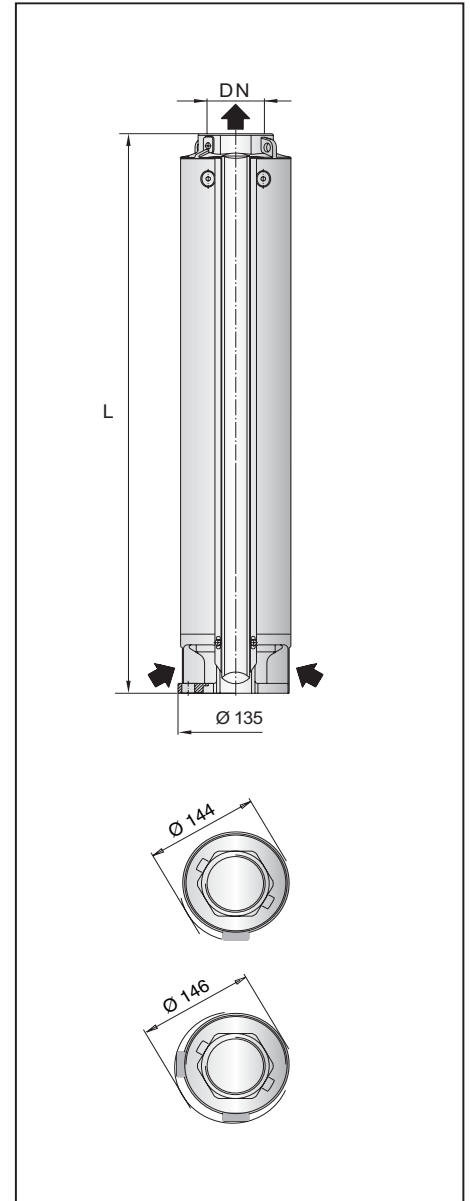
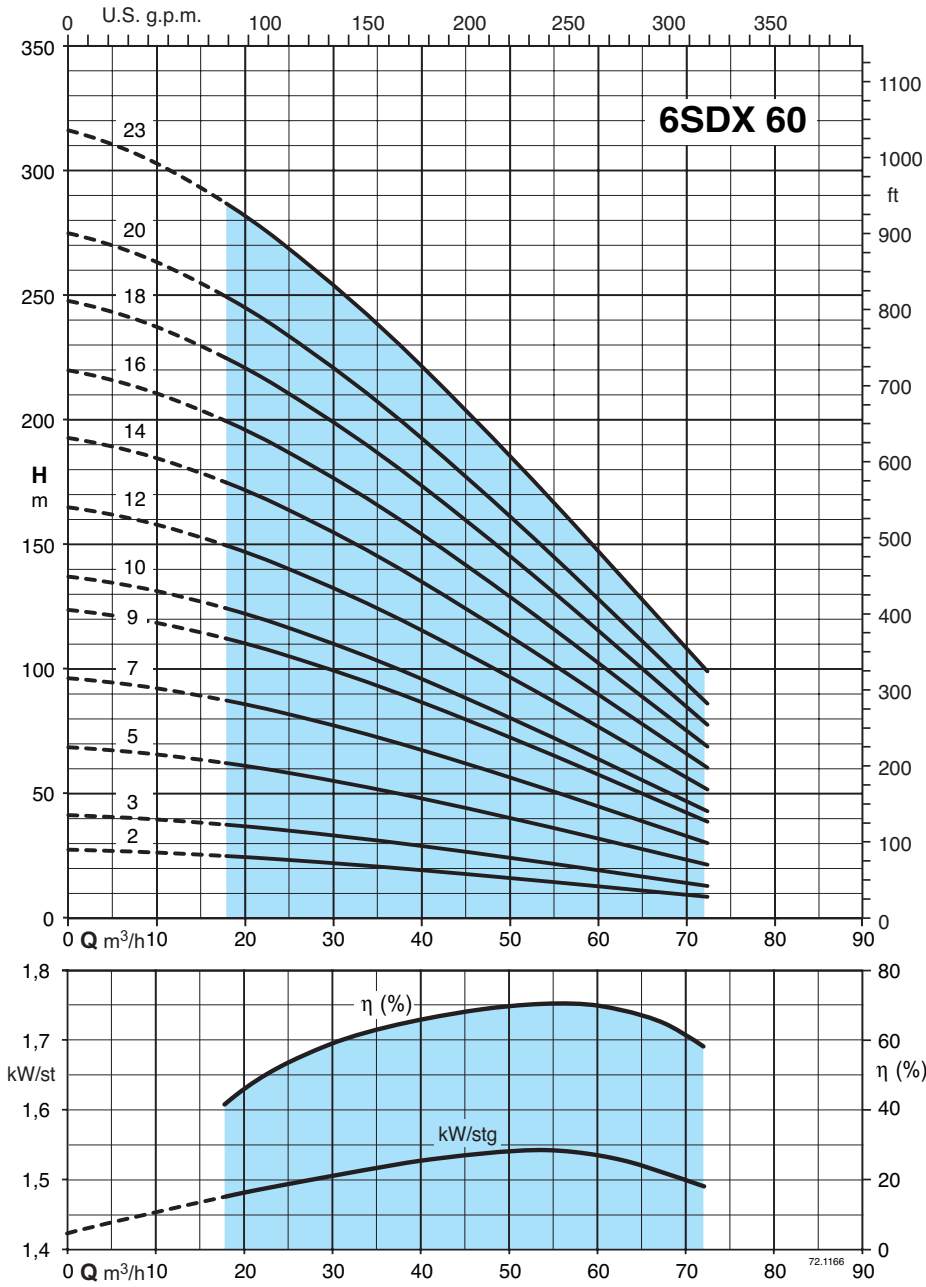
H Total head in m

Tolerances according to ISO 9906, annex A

6SDX 60

Submersible pumps for deep wells of 6"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3 ~	P ₂		Q	n ≈ 2900 1/min											
				m³/h											
	kW	HP		0	18	24	30	36	42	48	54	60	66	72	
6SDX 60/2	4	5.5	27,6	24,6	23,6	21,8	20,2	18,4	16,8	15	12,8	10,8	8,8		
6SDX 60/3	5.5	7.5	41,4	36,9	35,4	32,7	30,3	27,6	25,2	22,5	19,2	16,2	13,2		
6SDX 60/5	7.5	10	69	61,5	59	54,5	50,5	46	42	37,5	32	27	22		
6SDX 60/7	11	15	95,9	87	82,5	77,2	71,5	65,3	58,7	51,9	44,9	37,7	30,9		
6SDX 60/9	15	20	123	112	106	99,2	92	83,9	75,5	66,7	57,7	48,5	39,7		
6SDX 60/10	15	20	137	124	118	110	102	93,3	83,9	74,1	64,1	53,9	44,1		
6SDX 60/12	18.5	25	164	149	141	132	123	112	101	89	77	64,7	53		
6SDX 60/14	22	30	192	174	165	154	143	131	117	104	89,8	75,5	61,8		
6SDX 60/16	26 (30)	35 (40)	219	199	189	176	163	149	134	119	103	86,3	70,6		
6SDX 60/18	30	40	247	224	212	198	184	168	151	133	115	97	79,4		
6SDX 60/20	(37)	(50)	274	249	236	220	204	187	168	148	128	108	88,3		
6SDX 60/23	(37)	(50)	315	286	271	254	235	214	193	171	148	124	101		

DN	L	6SDX
	mm	kg
Rp 3"	365.5	11.5
	458.5	13.5
	644.5	18
	830.5	23
	1016.5	27.5
	1109.5	30
	1295.5	34.5
	1481.5	39
	1667.5	44
	1853.5	48.5
2040	52	
2318	60	

P₂ Rated motor power output

(...) FK motor rated power output

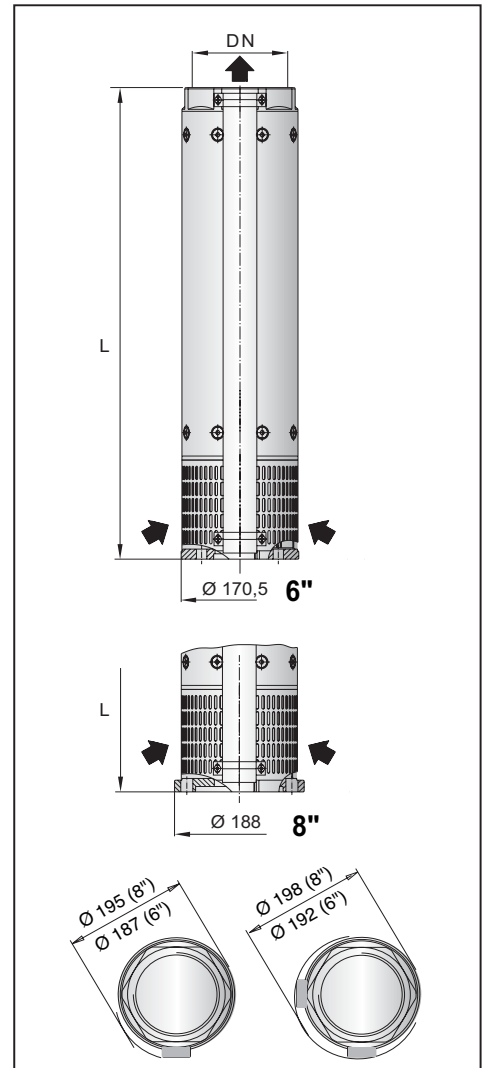
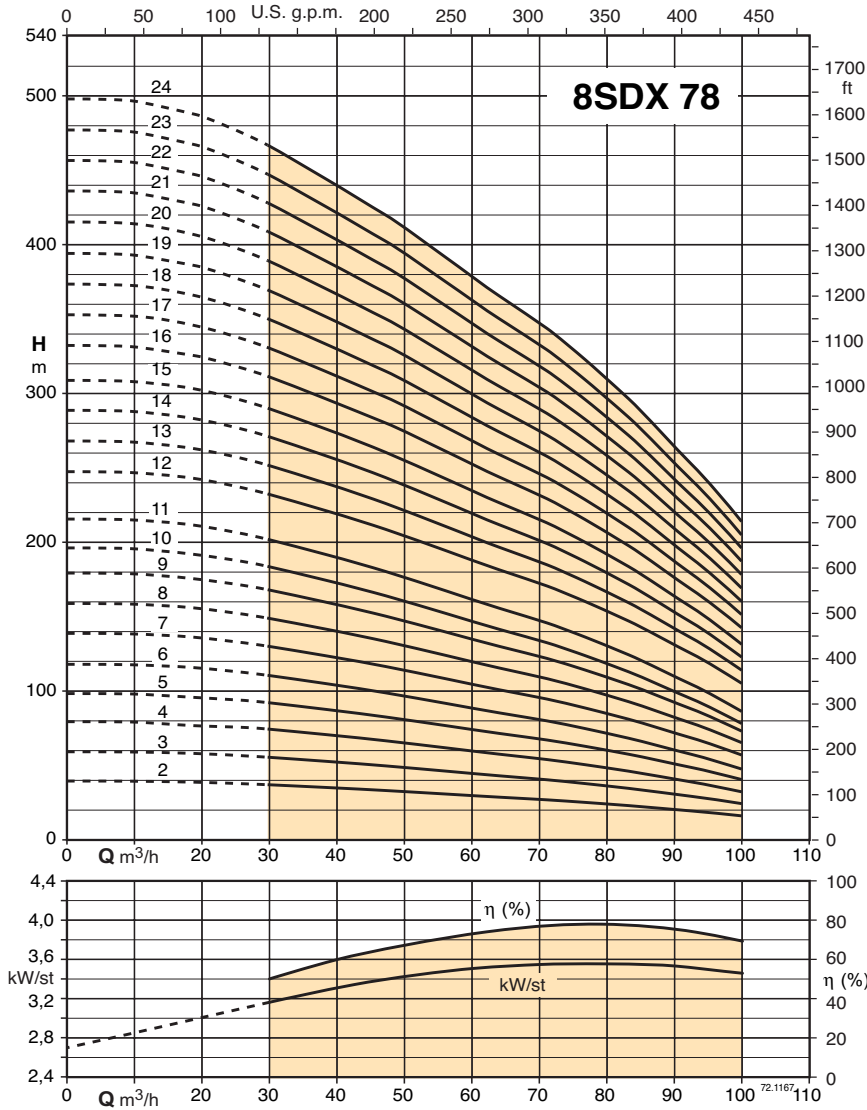
H Total head in m

Tolerances according to ISO 9906, annex A

8SDX 78

Submersible pumps for deep wells of 8"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



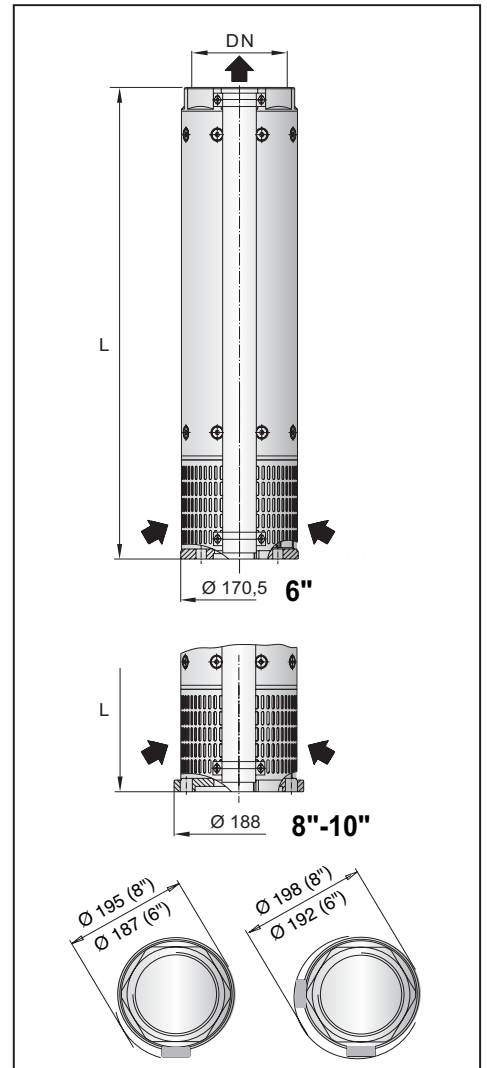
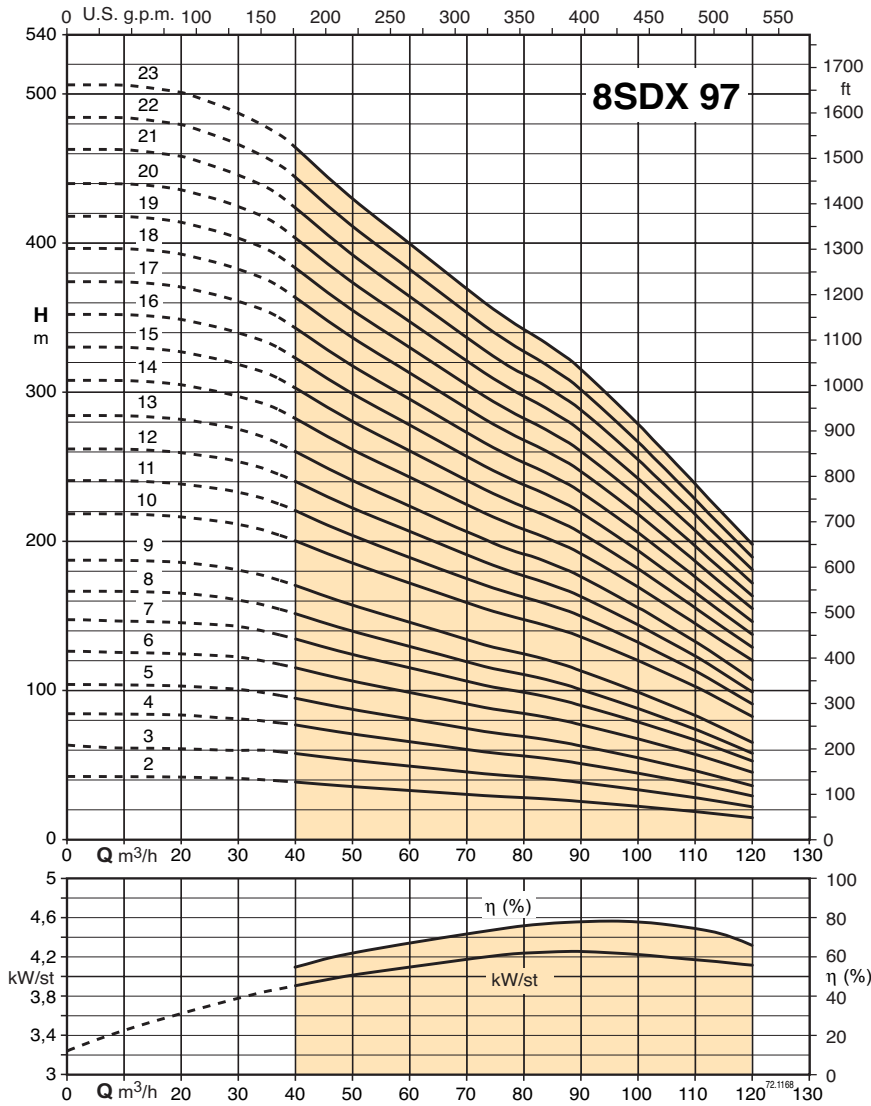
3 ~	P ₂		Q	n ≈ 2900 1/min												
				m³/h												
	kW	HP		0	30	40	50	60	70	80	90	100				
8SDX 78/2N	7,5	10	39,9	37,1	34,9	32,6	29,7	27,1	24,3	20,4	16,3					
8SDX 78/3N	11	15	59,8	55,7	52,3	48,9	44,6	40,7	36,4	30,6	24,4					
8SDX 78/4N	15	20	79,7	74,3	69,7	65,1	59,4	54,3	48,6	40,9	32,6					
8SDX 78/5N	18,5	25	99,6	92,9	87,1	81,4	74,3	67,9	60,7	51,1	40,7					
8SDX 78/6N	22	30	120	111	105	97,7	89,1	81,4	72,9	61,3	48,9					
8SDX 78/7N	26 (30)	35 (40)	140	130	122	114	104	95	85	71,5	57					
8SDX 78/8N	30	40	156	146	138	128	117	107	94,5	80	63,3					
8SDX 78/9N	30	40	176	164	155	144	132	120	106	90	71,2					
8SDX 78/10N	37	50	195	183	173	160	147	134	118	100	79,1					
8SDX 78/11N	37	50	215	201	190	176	162	147	130	110	87					
8SDX 78/12N	45	60	248	232	218	203	187	171	154	130	105					
8SDX 78/13N	51 (55)	70 (75)	268	251	237	220	203	185	166	141	114					
8SDX 78/14N	51 (55)	70 (75)	289	271	255	237	218	200	179	152	122					
8SDX 78/15N	55	75	310	290	273	254	234	214	192	163	131					
8SDX 78/16N	59 (75)	80 (100)	332	312	293	274	252	232	206	176	143					
8SDX 78/17N	66 (75)	90 (100)	353	332	311	292	268	247	219	187	152					
8SDX 78/18N	66 (75)	90 (100)	374	351	329	309	284	261	232	198	161					
8SDX 78/19N	75	100	394	371	348	326	299	276	245	209	170					
8SDX 78/20N	75	100	415	390	366	343	315	290	258	220	179					
8SDX 78/21N	75	100	436	409	385	361	331	304	271	231	187					
8SDX 78/22N	92	125	457	428	403	378	347	318	284	242	196					
8SDX 78/23N	92	125	478	448	422	395	363	333	297	253	205					
8SDX 78/24N	92	125	499	467	440	412	379	347	310	264	214					

DN	Motor		L	8SDX
	CS	FK		
Rp 5"	145 6"	137 6"	644	31,5
			770	36,5
			896	41,5
			1022	46,5
			1148	51
			1274	56
	191 8"	196 8"	1400	61
			1526	66
			1652	71
			1778	76
			1909	82
			2035	87
191 8"	196 8"	2161	92	
		2287	97	
		2413	101,5	
		2539	106,5	
		2665	111,5	
		2791	116,5	
191 8"	196 8"	2917	121	
		3043	126	
		3169	131	
		3295	136	
		3421	141	

8SDX 97

Submersible pumps for deep wells of 8"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3 ~	P ₂		Q	n ≈ 2900 1/min											
				H _m											
	kW	HP		m³/h	0	40	50	60	70	80	90	100	110	120	
8SDX 97/2N	9,2	12,5	l/min	0	666	833	1000	1166	1333	1500	1666	1833	2000		
8SDX 97/3N	13 (15)	17,5 (20)		41,2	38,6	35,2	32,2	29,8	27,8	24,8	21,8	18,6	14,8		
8SDX 97/4N	18,5	25		61,8	57,9	52,8	48,3	44,7	41,7	37,2	32,7	27,9	22,2		
8SDX 97/5N	22	30		82,4	77,2	70,4	64,4	59,6	55,6	49,6	43,6	37,2	29,6		
8SDX 97/6N	26 (30)	35 (40)		103	96,5	88	80,5	74,5	69,5	62	54,5	46,5	37		
8SDX 97/7N	30	40		125	113	105	96,7	89	82,7	75	66,3	55	44		
8SDX 97/8N	37	50		146	132	123	113	104	96,4	87,5	77,4	64,2	51,3		
8SDX 97/9N	37	50		167	151	140	129	119	110	100	88,4	73,3	58,7		
8SDX 97/10N	45	60		188	170	158	145	134	124	113	99,5	82,5	66		
8SDX 97/11N	51 (55)	70 (75)		219	200	185	172	158	147	135	119	102	83,1		
8SDX 97/12N	51 (55)	70 (75)		241	220	204	189	174	162	149	131	112	91,4		
8SDX 97/13N	55	75		263	240	222	206	190	176	162	143	122	99,7		
8SDX 97/14N	59 (75)	80 (100)		285	260	241	223	206	191	176	155	132	108		
8SDX 97/15N	66 (75)	90 (100)		309	281	262	242	224	208	191	169	144	120		
8SDX 97/16N	75	100		331	302	279	261	240	222	205	182	156	129		
8SDX 97/17N	75	100		353	322	298	278	256	237	219	194	166	138		
8SDX 97/18N	92	125		375	342	317	295	272	251	233	206	176	147		
8SDX 97/19N	92	125		397	362	335	313	288	266	246	218	187	155		
8SDX 97/20N	92	125		419	382	354	330	304	281	260	230	197	164		
8SDX 97/21N	92	125		440	403	374	348	322	298	274	244	209	173		
8SDX 97/22N	110	150		462	424	393	365	338	313	288	257	219	182		
8SDX 97/23N	110	150		484	444	411	383	354	328	301	269	230	190		
				507	464	430	400	370	343	315	281	240	199		

DN	Motor			L	8SDX
	CS	FK	L		
Rp 5"	145 6"	137 6"	644	31,5	
			770	36,5	
			896	41,5	
			1022	46	
			1148	51	
			1274	56	
	191 8"	196 8"	1400	61	
			1526	66	
			1657	72	
			1783	77	
			1909	82	
			2035	87	
240 10"		2161	92		
		2287	97		
		2413	102		
		2539	106,5		
		2665	111,5		
		2791	116,5		
			2917	121	
			3043	126	
			3169	131	
			3295	136	



Construction

Submersible motor pumps for deep wells of 6" (DN 150 mm), 8" (DN 200 mm) and 10" (DN 250 mm), with stages in cast iron or in bronze, on request.

Impellers: - mixed flow impellers.

Connection: - screwed connection ISO 228 for 6SDS;
- flange with counter-flange for welding for 8SDS and 10SDS

Delivery casing with built-in non-return valve.

Applications

For water supply.
For civil and industrial applications.
For fire fighting applications.
For irrigation.

Operating conditions

Liquid temperature up to a 25 °C.
Max. sand quantity into the water: 100 g/m³.
Continuous duty.

6", 8", 10" rewindable motor CS series

2-pole induction motor, 50 Hz (n = 2900 rpm).
With water wetted winding in rewindable execution.
Sized for connection to the pumps according to NEMA Standards.
Standard voltages:
- three-phase 400 V; 400/690 V.
Voltage tolerance : +6% / -10%.
Recommended type of starting for powers from 7.5 kW:
star/delta, soft start, impedance starting, autotransformer.

Motor	6"	8"	10"
Max. Liquid temperature	25 °C	25 °C	25 °C
Max. starts per hour	15	15	10
Cooling : minimum flow velocity	16 cm/s	20 cm/s	20 cm/s

Insulation PVC coated wire for 6-8-10" motors.
Protection IP 68.

Materials

Components	Part Nr.	6, 8, 10SDS	B-6, B-8, B-10SDS
Stage casing	25.02	Cast iron GJL 200 EN 1561	Bronze G-Cu Sn 10 EN 1982
Diffuser	26.00		
Impeller	28.00		
Wear ring		Rubber (Bronze for 10SDS 190-280)	
Shaft	64.00	6SDS e 8SDS: Steel AISI F51duplex 10SDS Cr steel AISI 420	Cr-Ni-Mo steel AISI 316
Shaft sleeve	64.08	Brass with chromate surface treatment (only for 10SDS)	
Delivery casing	12.01	Cast iron	Bronze
Suction lantern	32.02	GJL 200 EN 1561	G-Cu Sn 10 EN 1982
Bearing bush	12.03-12.30	Rubber	
Strainer	15.50	Cr-Ni steel AISI 304	
Screws		Cr-Ni steel AISI 304	

CS Motor	External frame	Cr-Ni steel AISI 304 (Fe P01 plate motor 10")
Shaft	Cr steel AISI 420 Hardened and tempered	Cr-Ni-Mo steel AISI 316
Thrust bearing	Oscillation pads	
Bearing bush	Graphite (Bronze for 8" motor of 51 - 59 - 66 kW)	

Cable	Motor 400V 50 Hz	Section	Length
	6CS 4 ÷ 22 kW	3 + 1 x 4 mm ²	3,5 m
	6CS 26 ÷ 30 kW	3 + 1 x 6 mm ²	3,5 m
	8CS 37 - 45 kW	3 + 1 x 10 mm ²	4 m
	8CS 51 ÷ 59 kW	3 + 1 x 16 mm ²	4 m
	8CS 66 - 75 kW	3 + 1 x 25 mm ²	4 m
	8CS 92 kW	3 + 1 x 35 mm ²	4 m
	10CS 110-132 kW	3 + 1 x 50 mm ²	4 m
	10CS 150-165 kW	3 + 1 x 70 mm ²	4 m

Special features on request

- Other voltages.
- 60 Hz frequency.
- Other temperatures.
- Motor FK series.

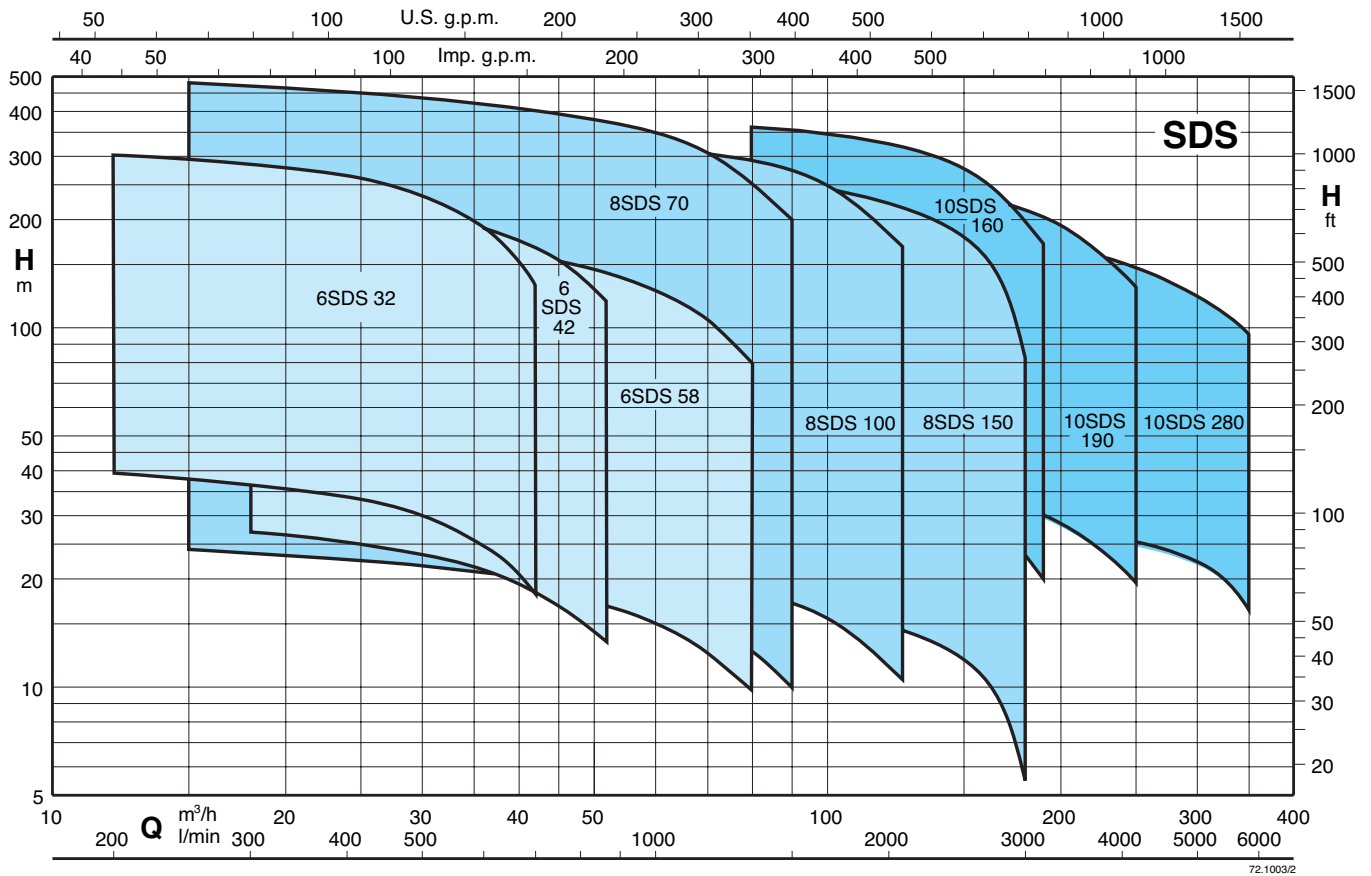
Designazione

Bronze construction (on request) B 10 SDS 190 / 6
 Ø of the well in inches _____
 Series _____
 Stage identification _____
 Number of stages _____



Submersible motor pumps for deep wells of 6", 8" and 10"

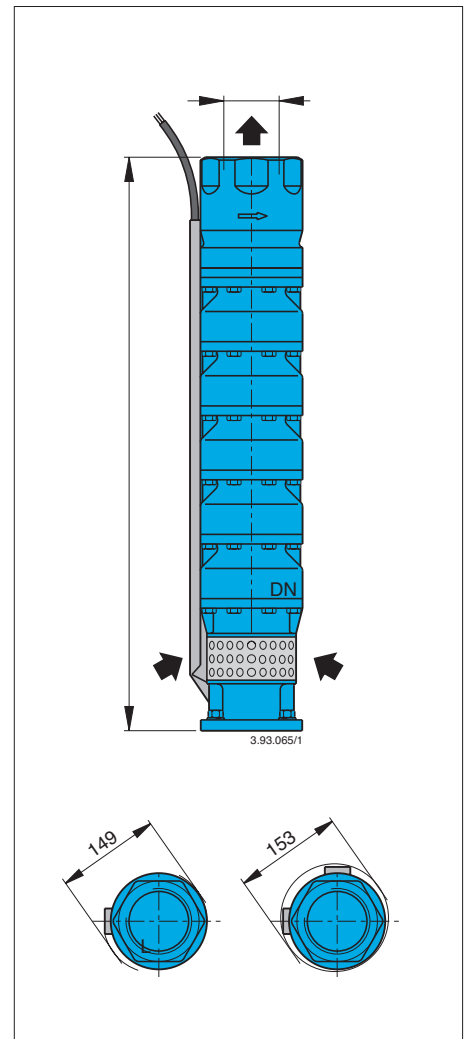
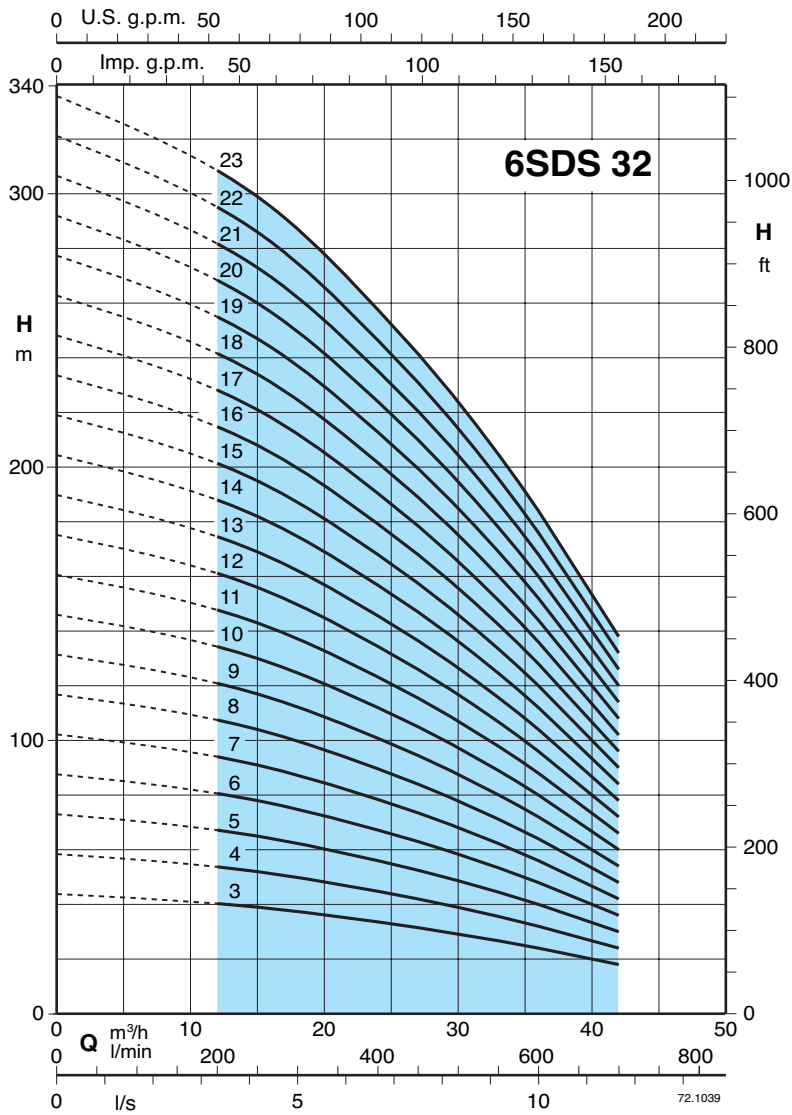
Coverage chart $n \approx 2900$ rpm



6SDS 32

Submersible motor pumps for deep wells of 6"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



Model	Flow rate (m³/h)	Flow rate (l/min)	Flow rate (l/s)	Head (m)	Head (ft)
3	10	200	5	10	33
4	12	240	6	12	39
5	15	300	7.5	15	49
6	18	360	9	18	59
7	21	420	10.5	21	69
8	24	480	12	24	79
9	27	540	13.5	27	88
10	30	600	15	30	98
11	33	660	16.5	33	108
12	36	720	18	36	118
13	39	780	19.5	39	128
14	42	840	21	42	138
15	45	900	22.5	45	148
16	48	960	24	48	158
17	51	1020	25.5	51	168
18	54	1080	27	54	178
19	57	1140	28.5	57	188
20	60	1200	30	60	198
21	63	1260	31.5	63	208
22	66	1320	33	66	218
23	69	1380	34.5	69	228

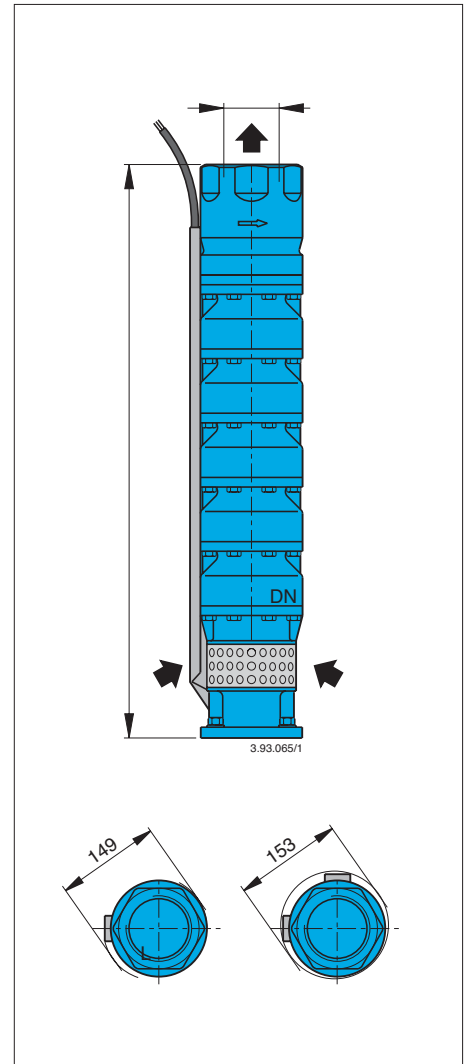
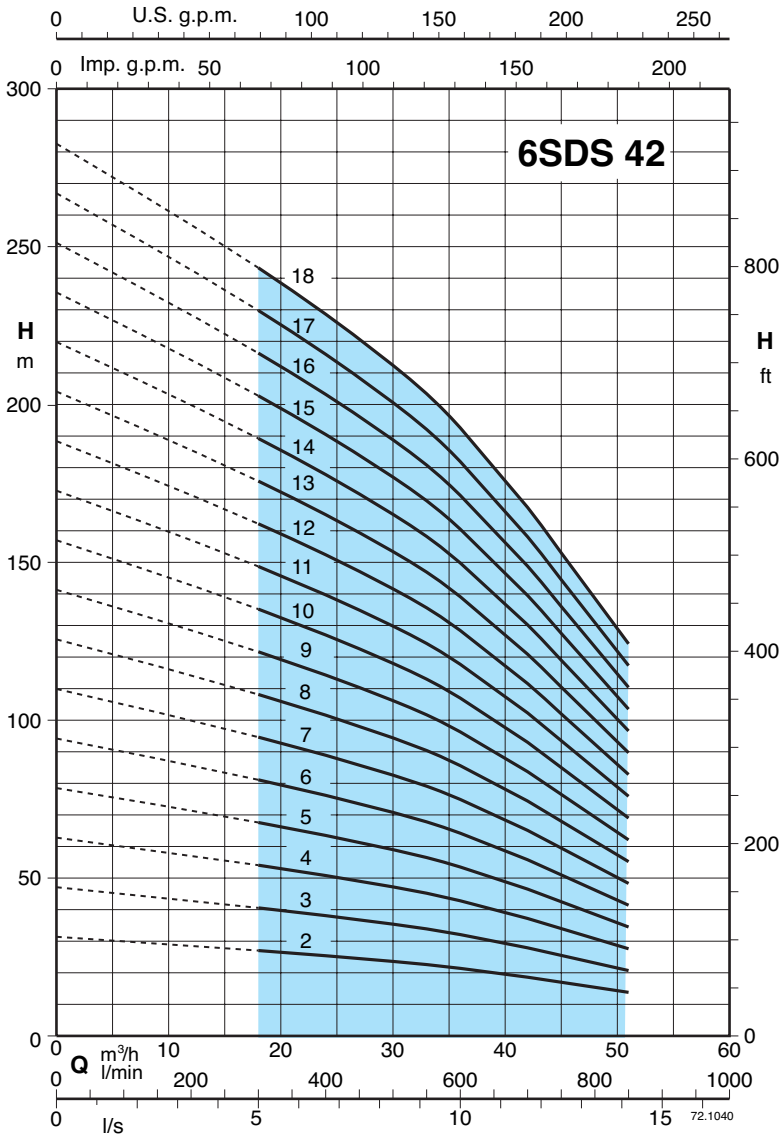
Model	Weight (kg)	Weight (lb)	Height (mm)	Height (in)
3	18	40	210	8.3
4	21	46	240	9.4
5	24	53	270	10.6
6	28	62	300	11.8
7	31	68	330	13.0
8	35	77	360	14.2
9	39	86	390	15.4
10	42	93	420	16.5
11	45	99	450	17.7
12	49	108	480	18.9
13	53	117	510	20.1
14	57	126	540	21.3
15	60	133	570	22.4
16	64	141	600	23.6
17	68	150	630	24.8
18	71	157	660	26.0
19	75	166	690	27.2
20	79	174	720	28.3
21	83	183	750	29.5
22	87	192	780	30.7
23	91	200	810	31.9

6SDS 32/3 4 5,5 39 37 35,5 33,5 31,5 30 26,5 24 21 18
 P2 Rates flow rate power output 7(5.) FK motor rated power output 45 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
 6SDS 32/5 7,5 10 65 61,5 59 56 52,5 49,5 44,5 40 35 30
 6SDS 32/6 7,5 10 78 74 71 67 63 59,5 53,5 48 42 36
 6SDS 32/7 9,2 12,5 92 86 82,5 78,5 73,5 69 62 56 49 42
 6SDS 32/8 11 15 105 98,5 94,5 89,5 84 79 71 64 56 48
 686 30,5 35,5
 890 41 49
 992 46 55
 1094 52,3 62,3
 1196 57 68
 n ≈ 2900 rpm
 H Total head, m
 Tolerances according to ISO 9906, annex A

6SDS 42

Submersible motor pumps for deep wells of 6"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3 ~	P ₂		Q	n ≈ 2900 rpm										
				m³/h										
	kW	HP		18	24	30	33	36	39	42	45	48	51	
6SDS 42/2	4	5,5	27	25,5	23,5	22,5	21,5	20	18,5	17	15,5	14		
6SDS 42/3	5,5	7,5	40	38	35,5	34	32	30	28	25,5	23	21		
6SDS 42/4	7,5	10	53,5	51	47	45	43	40	37	34	31	27,5		
6SDS 42/5	9,2	12,5	67	63,5	59	56,5	53,5	50	46,5	42,5	38,5	34,5		
6SDS 42/6	11	15	80,5	76	71	68	64	60	56	51	46	41,5		
6SDS 42/7	13 (15)	17,5 (20)	94	89	82,5	79	75	70	65	59,5	54	48		
6SDS 42/8	15	20	107	101	94,5	90,5	85,5	80	74,5	68	61,5	55		
6SDS 42/9	15	20	120	114	106	102	96	90	84	76,5	69	62		
6SDS 42/10	18,5	25	134	127	118	113	107	100	93	85	77	69		
6SDS 42/11	18,5	25	147	140	130	124	118	110	102	93,5	85	76		
6SDS 42/12	22	30	161	152	141	135	128	120	111	102	92,5	83		
6SDS 42/13	22	30	174	165	153	147	139	130	121	110	100	90		
6SDS 42/14	26 (30)	35 (40)	187	178	165	158	150	140	130	119	108	96,5		
6SDS 42/15	26 (30)	35 (40)	201	190	177	169	160	150	139	127	115	103		
6SDS 42/16	30	40	214	203	189	181	171	160	149	136	123	110		
6SDS 42/17	30	40	228	216	200	192	182	170	158	144	131	117		
6SDS 42/18	30	40	241	228	212	203	192	180	167	153	138	124		

DN	L	6SDS	B-6SDS
	mm	kg	kg
G 3 ISO 228	584	25,5	29,5
	686	31,6	36,6
	788	36	42
	890	40,3	48,3
	992	47	59
	1094	50,5	65,5
	1196	55,5	66,5
	1298	62,5	74,5
	1400	69	81
	1502	74	86
	1604	79,2	94,2
	1706	83,2	99,2
	1808	91,4	106
1910	96,4	113	
2012	101	119	
2114	106	126	
2216	111	132	

P₂ Rated motor power output

(...) FK motor rated power output

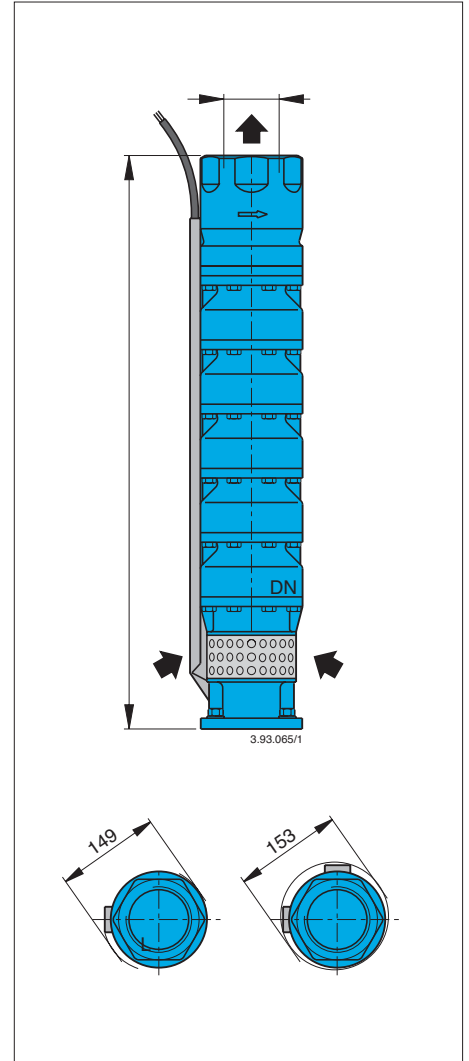
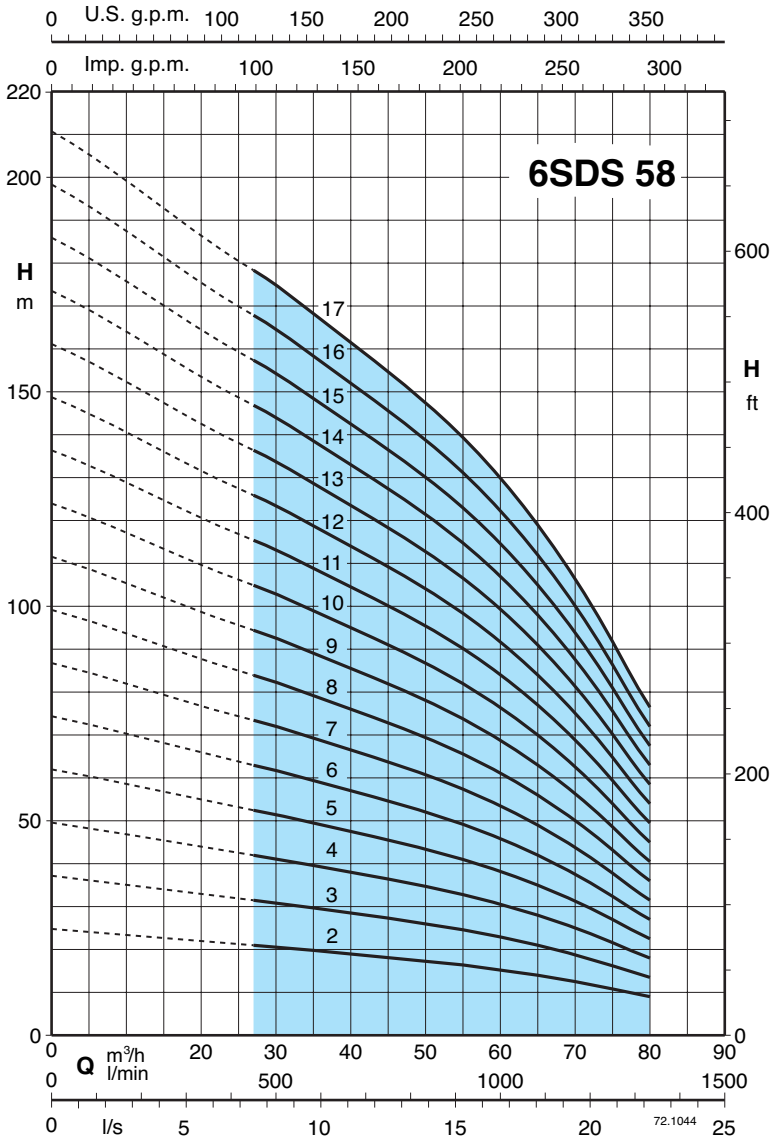
H Total head in m

Tolerances according to ISO 9906, annex A

6SDS 58

Submersible motor pumps for deep wells of 6"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3 ~	P ₂		Q	n ≈ 2900 rpm											
	kW	HP		H											
				m											
			m³/h	27	35	40	45	50	55	60	65	70	75	80	
			l/min	450	583	666	750	833	916	1000	1083	1166	1250	1333	
6SDS 58/2	4	5,5		21	20	19	18	17	16,5	15,5	14	12,5	11	9	
6SDS 58/3	5,5	7,5		32	30	28,5	27	26	24,5	23	21	18,5	16	13,5	
6SDS 58/4	7,5	10		42,5	39,5	38	36	34,5	33	31	28	25	21,5	18	
6SDS 58/5	9,2	12,5		53	49,5	47,5	45	43	41	38,5	35	31	27	22,5	
6SDS 58/6	11	15		63,5	59,5	57	54	51,5	49	46	42	37	32,5	27	
6SDS 58/7	13 (15)	17,5 (20)		74	59,5	66,5	63	60	57,5	54	49	43,5	38	31,5	
6SDS 58/8	15	20		85	79	76	72	69	66	62	56	49,5	43	36	
6SDS 58/9	18,5	25		95,5	89	85,5	81	77,5	74	69,5	63	56	49	40,5	
6SDS 58/10	18,5	25		106	99	95	90	86	82	77	70	62	54	45	
6SDS 58/11	22	30		117	109	104	99	94,5	90	85	77	68	59,5	49,5	
6SDS 58/12	22	30		127	119	114	108	103	100	94,5	86,5	76,5	66,5	55,5	
6SDS 58/13	26 (30)	35 (40)		138	129	123	117	112	107	100	91	80,5	70	58,5	
6SDS 58/14	26 (30)	35 (40)		148	139	133	126	120	115	108	98	87	75,5	63	
6SDS 58/15	30	40		159	148	142	135	129	123	115	105	93	81	67,5	
6SDS 58/16	30	40		170	158	152	144	138	131	123	112	99	86,5	72	
6SDS 58/17	30	40		180	168	162	153	146	139	131	119	105	92	76,5	

DN	L	6SDS	B-6SDS
	mm	kg	kg
G 4 ISO 228	584	26,5	29,5
	686	31,6	36,6
	788	37	43
	890	43,3	50,3
	992	48	57
	1094	53,5	63,5
	1196	59,5	70,5
	1298	65	77
	1400	71	84
	1502	76,2	90,2
	1604	82,2	97,2
	1706	87,4	104
	1808	93,4	111
1910	99,4	118	
2012	104	124	
2114	110	131	

P₂ Rated motor power output

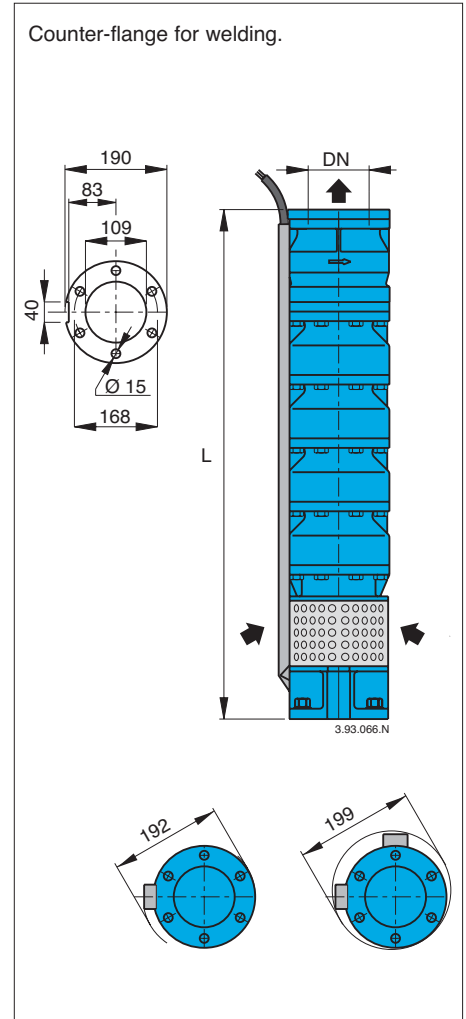
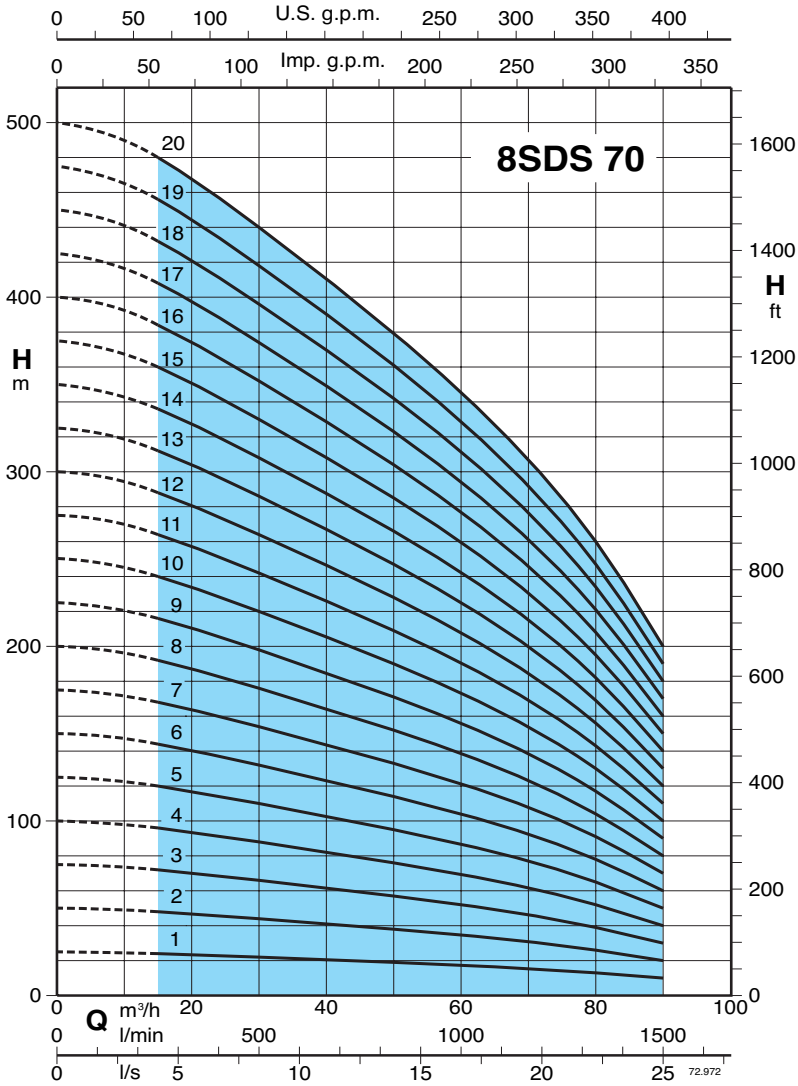
(...) FK motor rated power output

H Total head in m

Tolerances according to ISO 9906, annex A

Submersible motor pumps for deep wells of 8"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3 ~	P ₂		Q	n ≈ 2900 rpm																		
				H																		
				m³/h	15	20	30	40	50	60	70	80	90									
	kW	HP	l/min	250	333	500	666	833	1000	1166	1333	1500										
8SDS 70/1	5,5	7,5		24	23	22	20,5	19	17,5	15	13	10										
8SDS 70/2	9,2	12,5		48	46	44	41	38	35	30	26	20										
8SDS 70/3	15	20		72	69	66	61,5	57	52,5	45	39	30										
8SDS 70/4	18,5	25		96	92	88	82	76	70	60	52	40										
8SDS 70/5	22	30		120	115	110	102	95	87,5	75	65	50										
8SDS 70/6	26 (30)	35 (40)		144	138	132	123	114	105	90	78	60										
8SDS 70/7	30	40		168	161	154	143	133	122	105	91	70										
8SDS 70/8	37	50		192	184	176	164	152	140	120	104	80										
8SDS 70/9	45	60		216	207	198	184	171	157	135	117	90										
8SDS 70/10	45	60		240	230	220	205	190	175	150	130	100										
8SDS 70/11	51 (55)	70 (75)		264	253	242	225	209	192	165	143	110										
8SDS 70/12	55	75		288	276	264	246	228	210	180	156	120										
8SDS 70/13	59 (75)	80 (100)		312	299	286	266	247	227	195	169	130										
8SDS 70/14	59 (75)	80 (100)		336	322	308	287	266	245	210	182	140										
8SDS 70/15	66 (75)	90 (100)		360	345	330	307	285	262	225	195	150										
8SDS 70/16	75	100		384	368	352	328	304	280	240	208	160										
8SDS 70/17	75	100		408	391	374	348	323	297	255	221	170										
8SDS 70/18	92	125		432	414	396	369	342	315	270	234	180										
8SDS 70/19	92	125		456	437	418	389	361	332	285	247	190										
8SDS 70/20	92	125		480	460	440	410	380	350	300	260	200										

DN	Motor		L mm	8SDS kg	B-8SDS kg
	CS mm	FK mm			
100	145 6"	137 6"	602	38	43
			734	49	55,5
			866	60	68
			998	71,5	80,5
			1130	82,5	93
	191 8"	196 8"	1262	93,5	106
			1394	105	118
			1526	116	131
			1658	127	143
			1790	138	156
100	191 8"	196 8"	1922	149	168
			2054	160	181
			2186	171	194
			2318	182	206
			2450	193	219
			2582	205	231
100	191 8"	196 8"	2714	216	244
			2846	227	256
			2978	238	269
			3110	249	281

P₂ Rated motor power output

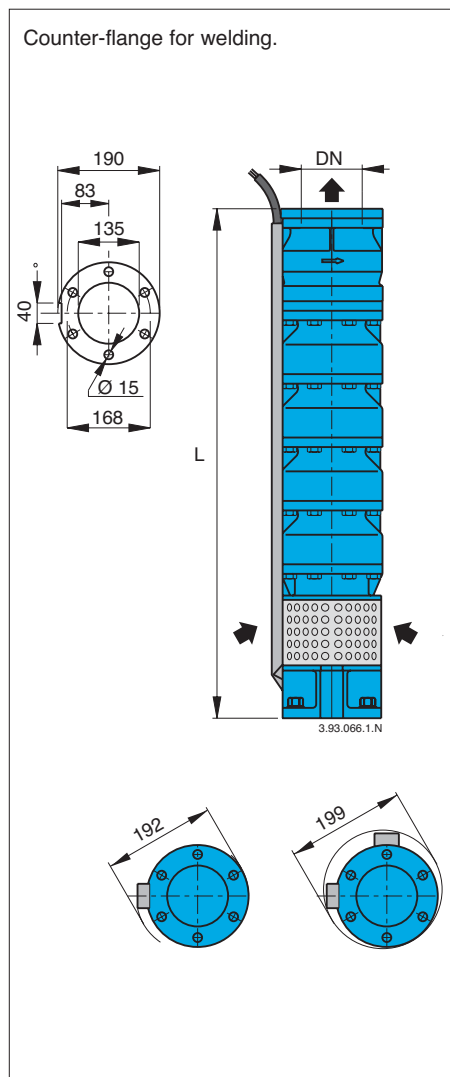
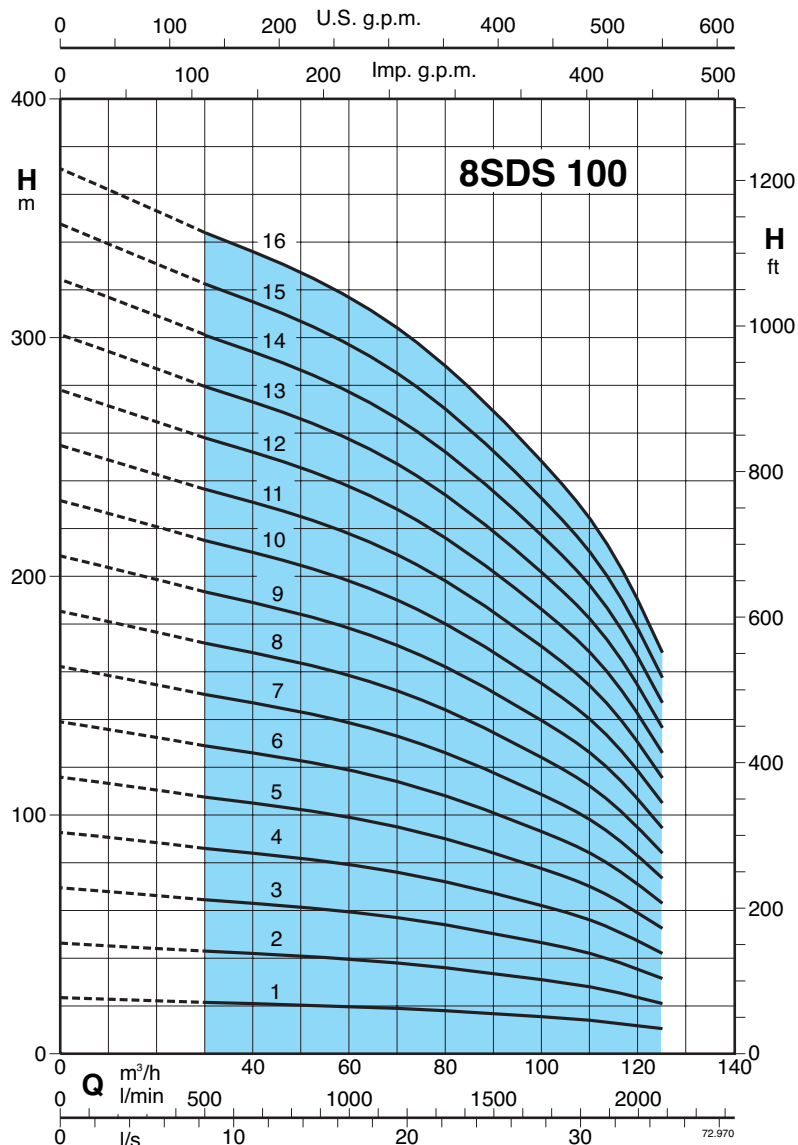
(...) FK motor rated power output

H Total head in m

Tolerances according to ISO 9906, annex A

Submersible motor pumps for deep wells of 8"

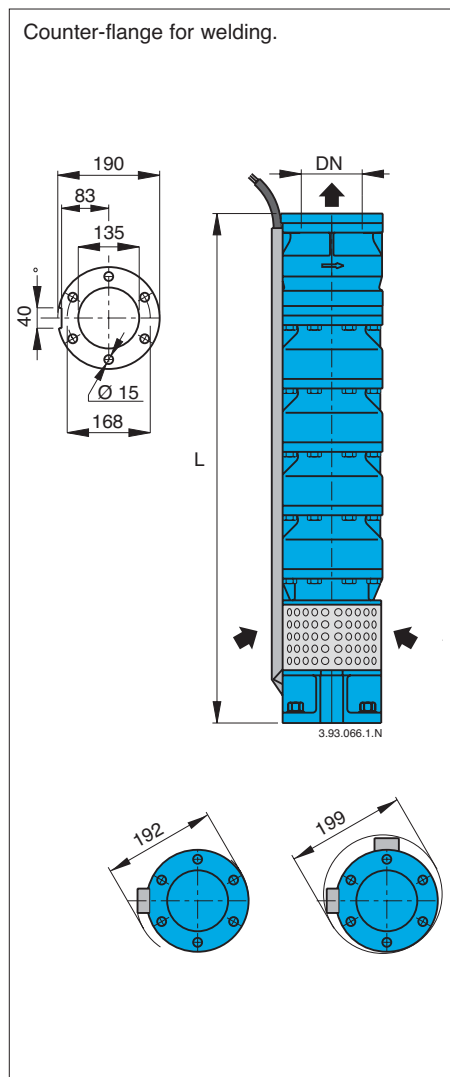
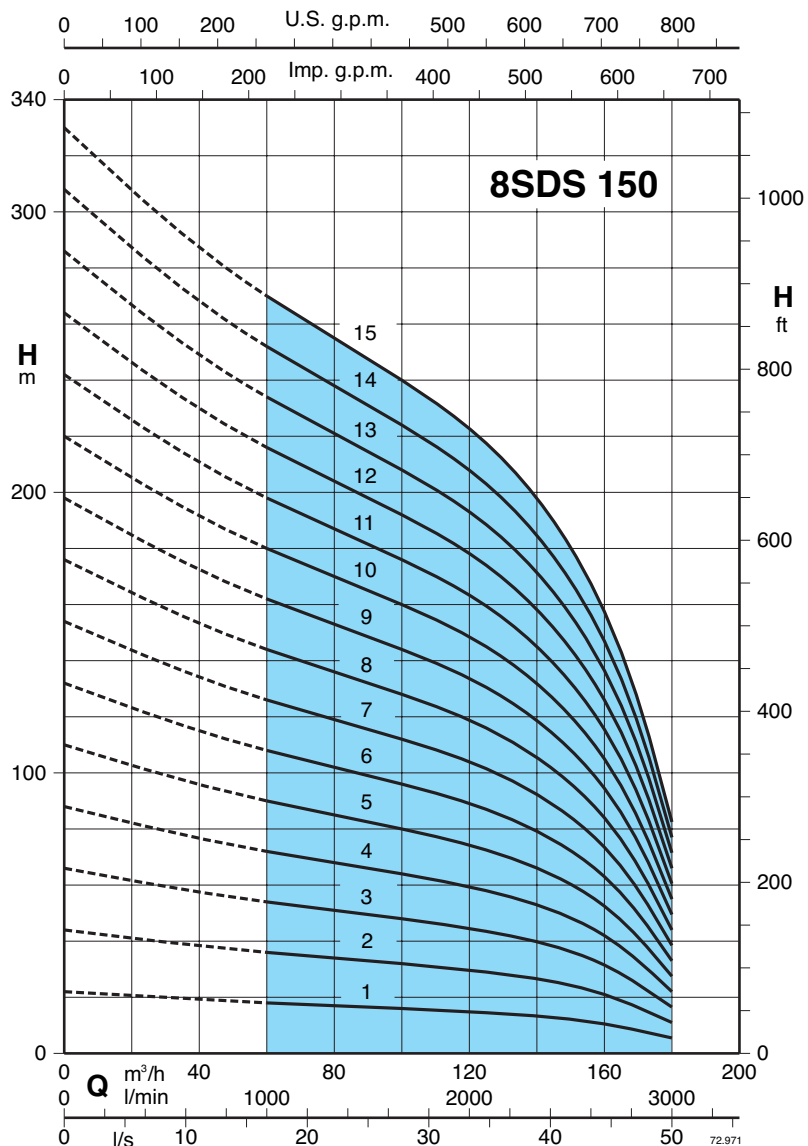
Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



Model	HP	Flow Rate (Q)												DN	Motor			Weight (kg)
		$n \approx 2900$ rpm													CS	FK	I	
		m ³ /h	30	40	50	60	70	80	90	100	110	125	mm	mm	mm	8SDS B		
		l/min	500	666	833	1000	1166	1333	1500	1666	1833	2083						
8SDS 100/1	5,5	7,5	21,5	21	20,5	20	19	18	17	15,5	14	10,5			602	38		
8SDS 100/2	11	15	43	42	41	40	38	36	34	31	28	21			734	49		
8SDS 100/3	18,5	25	64,5	63	61,5	60	57	54	51	46,5	42	31,5			866	59		
8SDS 100/4	22	30	86	84	82	80	76	72	68	62	56	42			998	70		
8SDS 100/5	30	40	107	105	102	100	95	90	85	77,5	70	52,5			1130	81		
8SDS 100/6	37	50	129	126	123	120	114	108	102	93	84	63			1262	92		
8SDS 100/7	45	60	150	147	143	140	133	126	119	108	98	73,5			1394	102		
8SDS 100/8	45	60	172	168	164	160	152	144	136	124	112	84			1526	113		
8SDS 100/9	51 (55)	70 (75)	193	189	184	180	171	162	153	139	126	94,5			1658	124		
8SDS 100/10	55	75	215	210	205	200	190	180	170	155	140	105			1790	135		
8SDS 100/11	66 (75)	90 (100)	236	231	225	220	209	198	187	170	154	115	191		1922	145		
8SDS 100/12	66 (75)	90 (100)	258	252	246	240	228	216	204	186	168	126	8"		2054	156		
8SDS 100/13	75	100	279	273	266	260	247	234	221	201	182	136		196	2186	167		
8SDS 100/14	92	125	301	294	287	280	266	252	238	217	196	147			2318	177		

Submersible motor pumps for deep wells of 8"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3 ~	P ₂		Q	n ≈ 2900 rpm										
				m³/h										
	kW	HP		60	70	80	90	100	110	125	140	150	160	180
8SDS 150/1	7,5	10	18	17,5	17	16,5	16	15,5	14,5	13	11,5	10,5	5,5	
8SDS 150/2	15	20	36	35	34	33	32	31	29	26	23	21	11	
8SDS 150/3	22	30	54	52,5	51	49,5	48	46,5	43,5	39	34,5	31,5	16,5	
8SDS 150/4	30	40	72	70	68	66	64	62	58	52	46	42	22	
8SDS 150/5	37	50	90	87,5	85	82,5	80	77,5	72,5	65	57,5	52,5	27,5	
8SDS 150/6	45	60	108	105	102	99	96	93	87	78	69	63	33	
8SDS 150/7	51 (55)	70 (75)	126	122	119	115	112	108	101	91	80,5	73,5	38,5	
8SDS 150/8	59 (75)	80 (100)	144	140	136	132	128	124	116	104	92	84	44	
8SDS 150/9	66 (75)	90 (100)	162	157	153	148	144	139	130	117	103	94,5	49,5	
8SDS 150/10	75	100	180	175	170	165	160	155	145	130	115	105	55	
8SDS 150/11	92	125	198	192	187	181	176	170	159	143	126	115	60,5	
8SDS 150/12	92	125	216	210	204	198	192	186	174	156	138	126	66	
8SDS 150/13	110	150	234	227	221	214	208	201	188	169	149	136	71,5	
8SDS 150/14	110	150	252	245	238	231	224	217	203	182	161	147	77	
8SDS 150/15	110	150	270	262	255	247	240	232	217	195	172	157	82,5	

DN	Motor		L	8SDS	B-8SDS
	CS	FK			
125	145 6"	137 6"	602	38	43
			734	49	55,5
			866	60	68
			998	71,5	80,5
			1130	82,5	93
			1262	93,5	106
	191 8"	196 8"	1394	105	118
			1526	116	131
			1658	127	143
			1790	138	156
			1922	149	168
			2054	160	181
240 10"		2186	171	194	
		2318	182	206	
		2450	193	219	

P₂ Rated motor power output

(...) FK motor rated power output

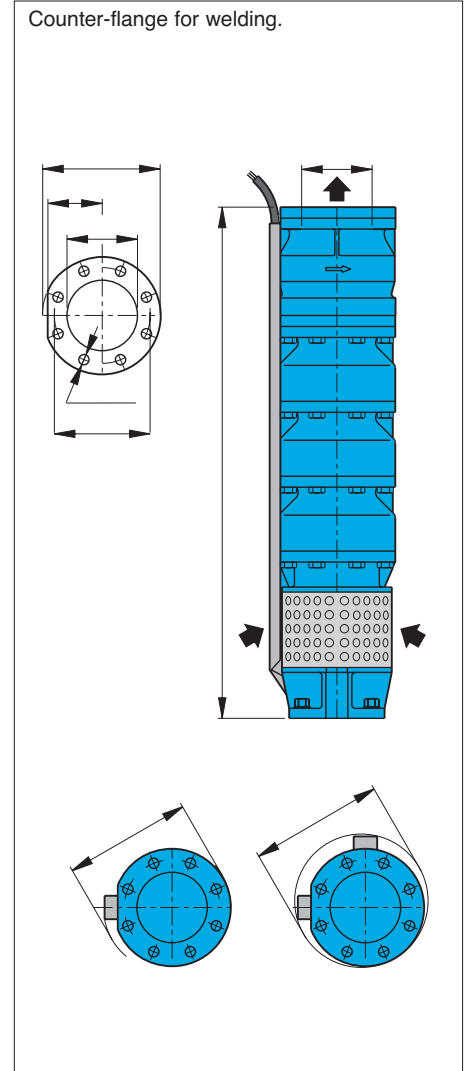
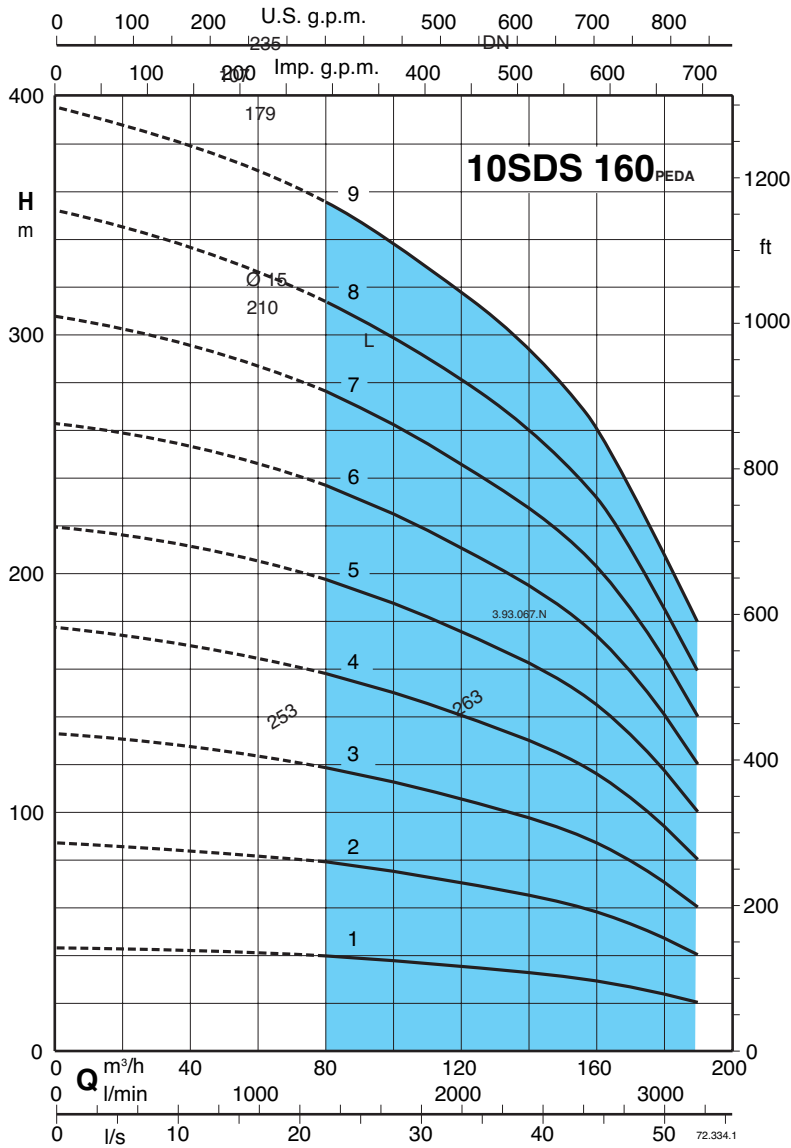
H Total head in m

Tolerances according to ISO 9906, annex A

10SDS 160

Submersible motor pumps for deep wells of 10"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



rpm

rpm	Motor					DN	L	10SDS		B-10SDS										
	150	160	170	180	190			CS	FK	kg	kg									
2500	2666	2833	3000	3166		145-6"	137	865	77	87										
31	29	26,5	22	20																
62	58,5	53,5	44	40																
92,5	87,5	80	66,5	60		191														
123	117	107	88,5	80																
154	146	134	111	100		175														
185	175	160	133	120																
216	204	187	155	140																
246	233	213	177	160																
279	261	239	198	180																

P₂ Rated motor power output

(...) FK motor rated power output

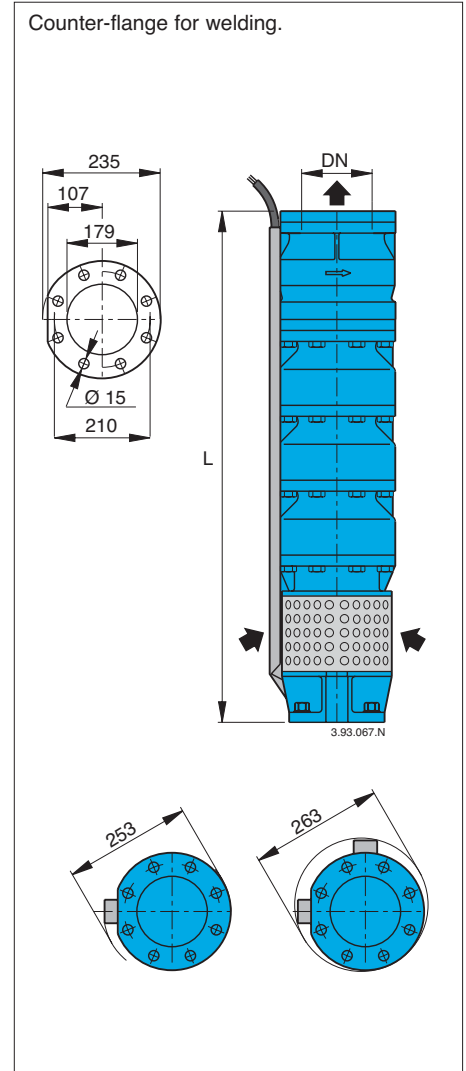
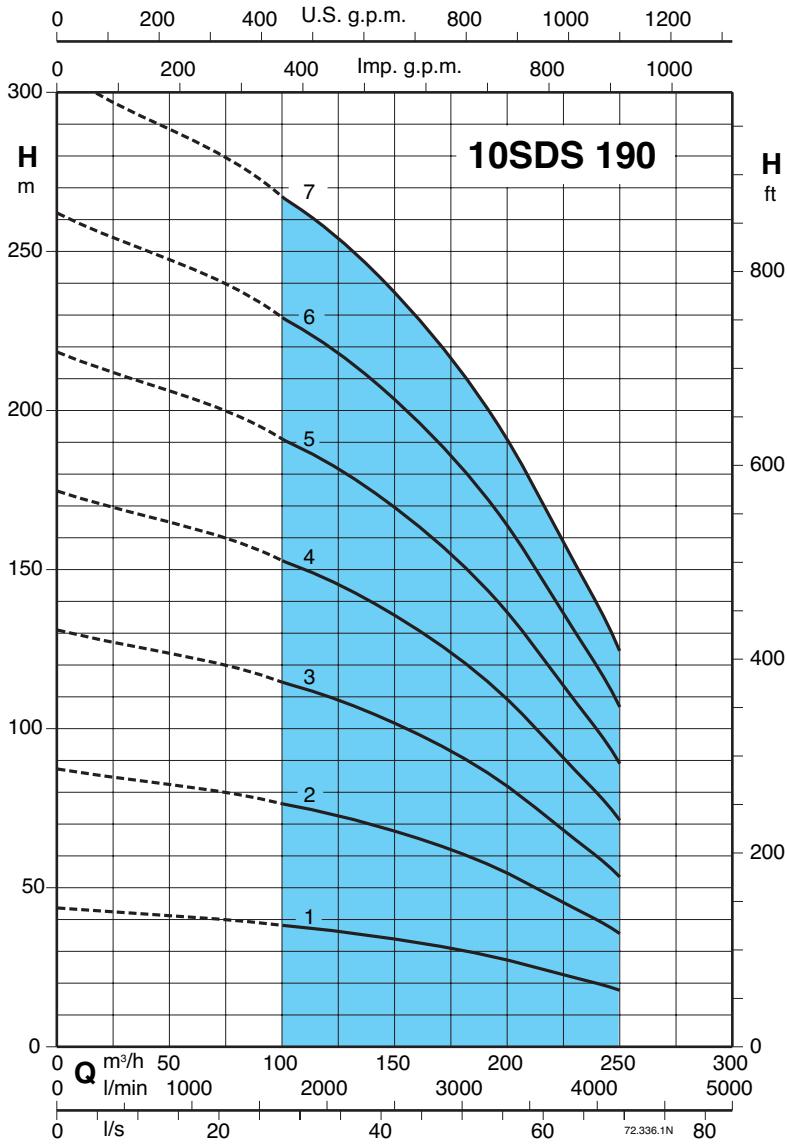
H Total head in m

Tolerances according to ISO 9906, annex A

10SDS 190

Submersible motor pumps for deep wells of 10"

Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3 ~	P ₂		Q	n ≈ 2900 rpm										
	kW	HP		m³/h	100	120	140	160	180	200	220	230	240	250
			l/min	1666	2000	2333	2666	3000	3333	3666	3833	4000	4166	
10SDS 190/1	22	30	H m	38	37	35	33	30	27	24	22	20	18	
10SDS 190/2	45	60		76	73	70	66	61	55	47	44	40	36	
10SDS 190/3	66 (75)	90 (100)		115	110	105	98	91	82	71	65	59	53	
10SDS 190/4	92	125		153	147	140	131	121	109	95	87	79	71	
10SDS 190/5	110	150		191	183	175	164	152	137	119	109	99	89	
10SDS 190/6	132 (130)	180 (175)		229	220	210	197	182	164	142	131	119	107	
10SDS 190/7	165	225		267	257	244	230	212	191	166	152	139	125	

DN	Motor		L	10SDS	B-10SDS
	CS mm	FK mm			
175	145-6"	137 6"	865	78	88
	191 8"		1035	102	115
		240 10"	196 8"	1205	127
	1375			151	170
175	240 10"	196 8"	1545	175	198
			1715	199	225
175	240 10"	-	1885	223	252

P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to ISO 9906, annex A

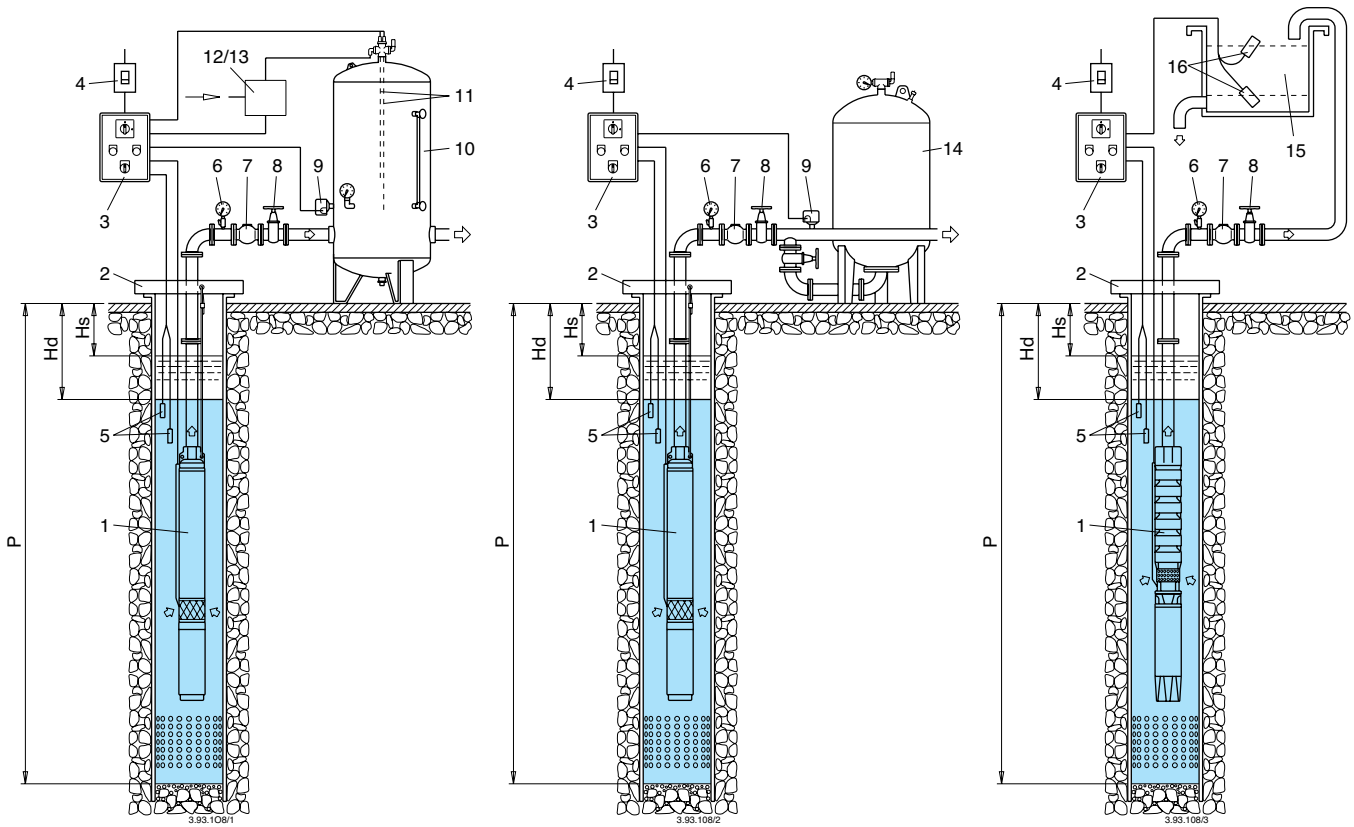
Cables connection kit

It allows connection of electric cables with junction submerged in water.

The kit includes:

- 4 connectors
- 4 shrink-sheaths for protection of individual wires
- 1 shrink-sheath for protection of the 4-pole wire.

The sheath shrinks with heating (flame or drier) which causes resin outlet granting connection waterproofing.



- 1 Submersible pump
- 2 Pump support system
- 3 Electric control board
- 4 Circuit breaker
- 5 Minimum level probes
- 6 Pressure gauge
- 7 Check valve
- 8 Throttle gate valve
- 9 Pressure switch
- 10 Pressure tank
- 11 Probes for air entry control
- 12 Electric valve
- 13 Compressor
- 14 Membrane tank
- 15 Storage tank
- 16 Start-stop probes

Hs Static level
Hd Dynamic level
P Tubewell depth