

FAMCO
هایپر صنعت



water passion

تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)، روبروی پالایشگاه نفت پارس، پلاک ۱۲

Fax: ۰۲۱ - ۴۴۹۹۴۶۴۲ Tel: ۰۲۱ - ۴۸۰۰۰۰۴۹

E-mail: info@famcocorp.com

1959

WHO WE ARE

WE WANT TO CONTINUE THAT WHICH WAS STARTED MANY YEARS AGO BY VINICIO METTIFOGO, FOUNDER AND PIONEER.

Calpeda is a family owned company with an history of 61 years.

Today, we are a reality that has evolved over the years, always looking to the future with a spirit that has brought us to being a respected reference point in the great world of water.

Our history has taken our tradition and strength to you, acknowledged for our professionalism, quality, reliability and service.



2020

CALPEDA TODAY

Employees: 250
Offices: Montorso V. (Vicenza) Italy
Main factory: 30,000 sq. metres (covered)
Types of pumps: more than 2,000
Power outputs: from 0.5 kW to 200 kW





Construction

Submersible borehole pumps for 4" wells (DN 100 mm), and 6" (DN 150 mm), with external jacket in stainless steel AISI 304 and stages in polycarbonate for 4SD pumps and in noryl for 4SDF, 6SD, 6SDN pumps.

Impellers

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 35 °C for 4" motors
- up to a 25 °C for 6" motors.
Max. sand quantity into the water: 150 g/m³ (300 g/m³ high percentage of solids and sand).
Continuous duty.

Rewindable motor CS-R 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%.

In order to limit both current and torque at each starting, for rated motor powers equal to or higher than 7.5 kW, one of the following types of starting is necessary: star/delta, soft starter, stator impedance or autotransformer.

The electropumps 4SD31, 4SDF series comply with the European Regulation no. 547/2012.

Materials

Components	Part Nr.	4SD, 4SDF	6SD, 6SDN
External jacket	14.02	Cr-Ni steel	AISI 304
Stage casing (4SDF)	25.02	Cr-Ni steel	AISI 304
Stage casing (4,6SD)	25.02	Polycarbonate (Lexan 141 R)	GFN2V* (NORYL®)
Diffuser	26.00		
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	Cr-Ni steel	Bronze
Suction lantern	32.02	AISI 304	G-Cu Sn 10 EN 1982
Bearing bush	12.03-12.30	Thermoplastic	Rubber
Strainer	15.50	Cr-Ni steel	AISI 430
Screws		Cr-Ni steel	AISI 304

* Trademark of General Electric

Components	4CS	6CS-R
External frame	Cr-Ni steel	AISI 304
Shaft	Cr-Ni-Mo steel AISI 316 (shaft end)	Cr steel AISI 431
Thrust bearing	Oil wetted ball type	Oscillation pads
Bearing bush	Oil wetted ball type	Graphite

Operating conditions motor

Motor	Max. Liquid temperature	Cooling: minimum flow velocity	Max. starts per hour	Motor P2
4CS-R	35 °C	0,08 m/s	20	all types
6CS-R	30 °C	0,1 m/s	15	4÷11 kW
		0,2 m/s	15	13÷15 kW
	25 °C	0,2 m/s	15	18,5 kW
		0,2 m/s	13	22÷30 kW

Insulation class F for 4" motors, class E for 6" motors.
Motor suitable operation with frequency converter .
Protection IP 68.

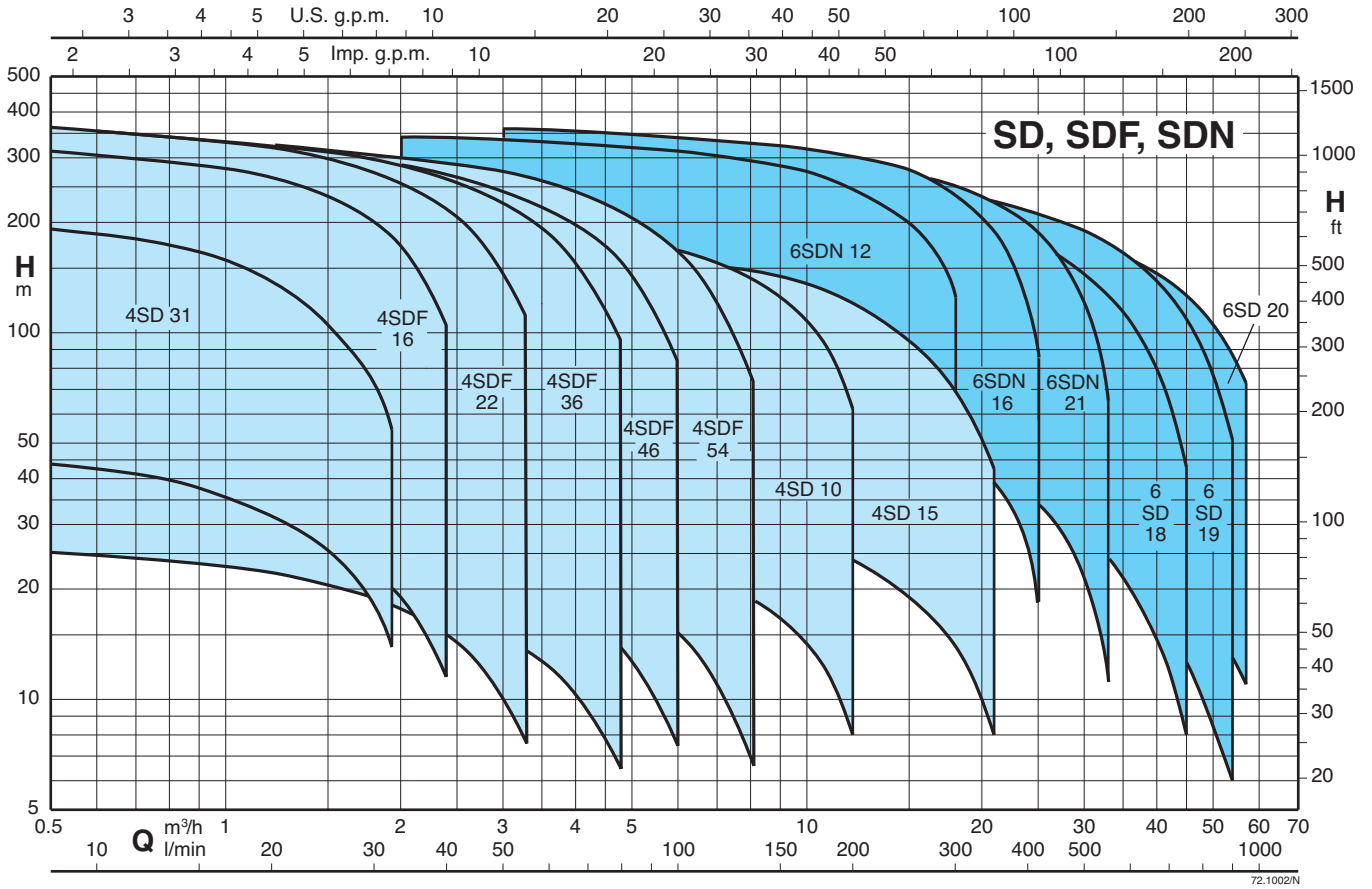
Special features on request

- Other voltages.
- 60 Hz frequency.
- Other temperatures.
- Encapsulated motor **FK series**.

Designation

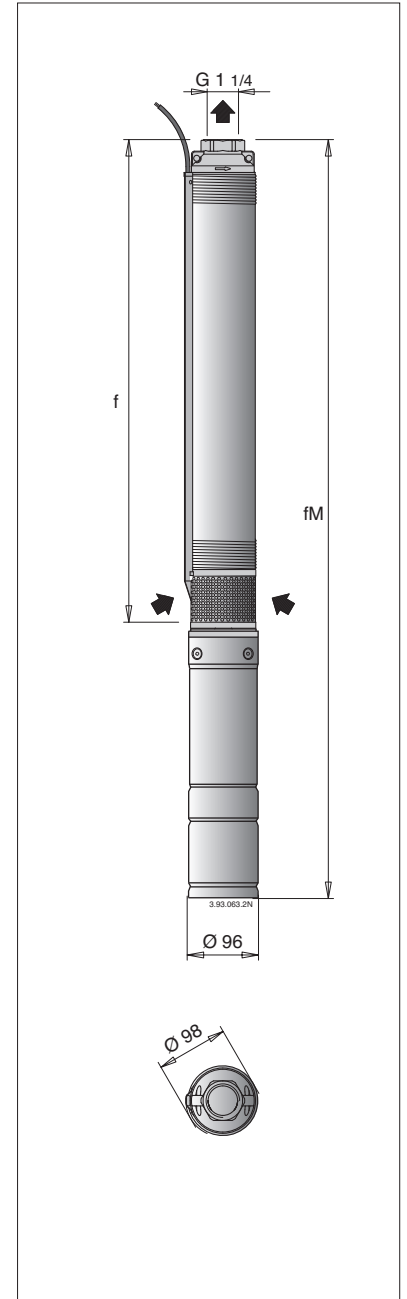
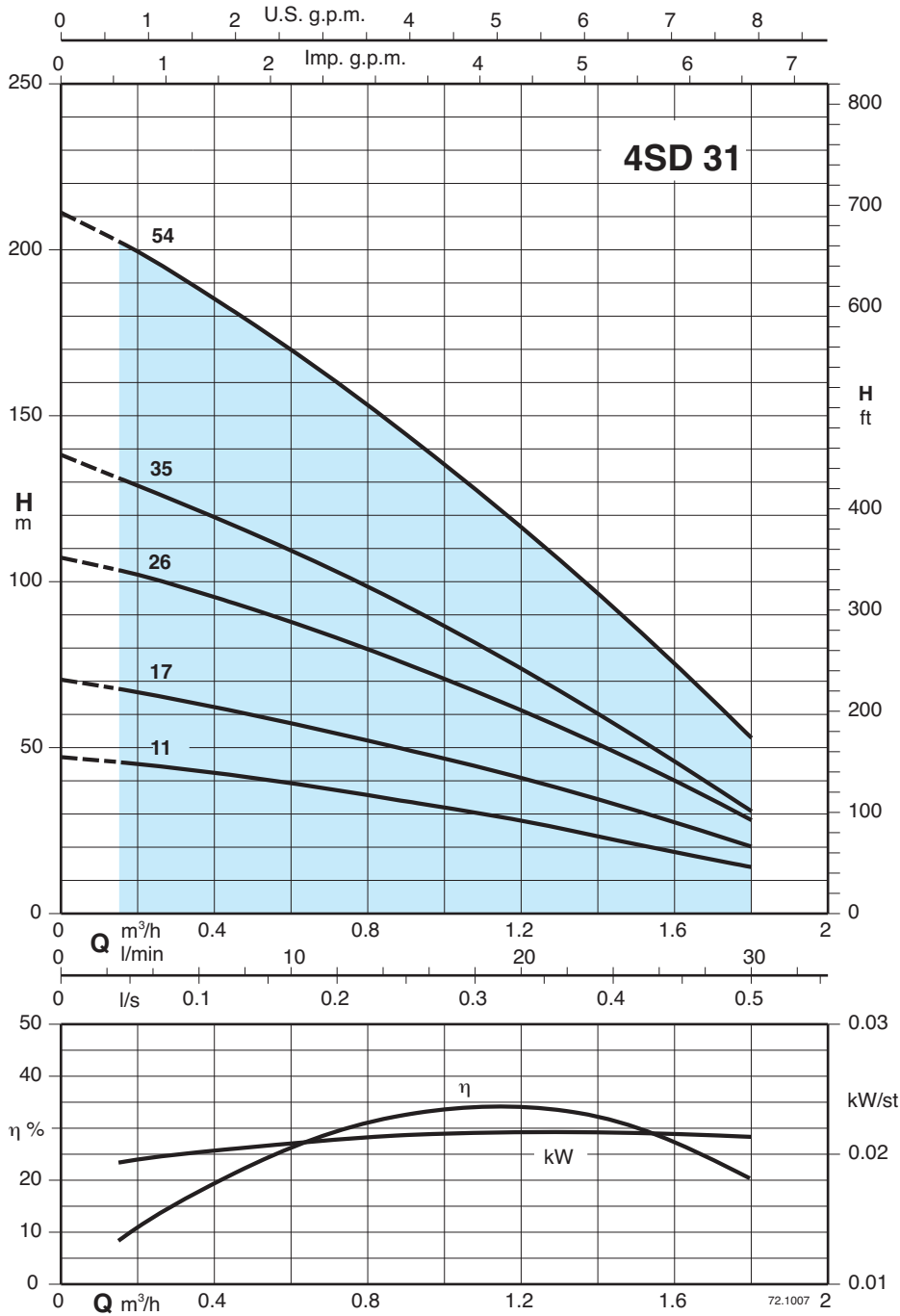
Ø of the well in inches 4 SD M 31 / 26
Series _____
Single-phase motor (up to max. 2,2 kW) _____
Stage identification _____
Number of stages _____

Coverage chart $n \approx 2900$ rpm



72.1002/N

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

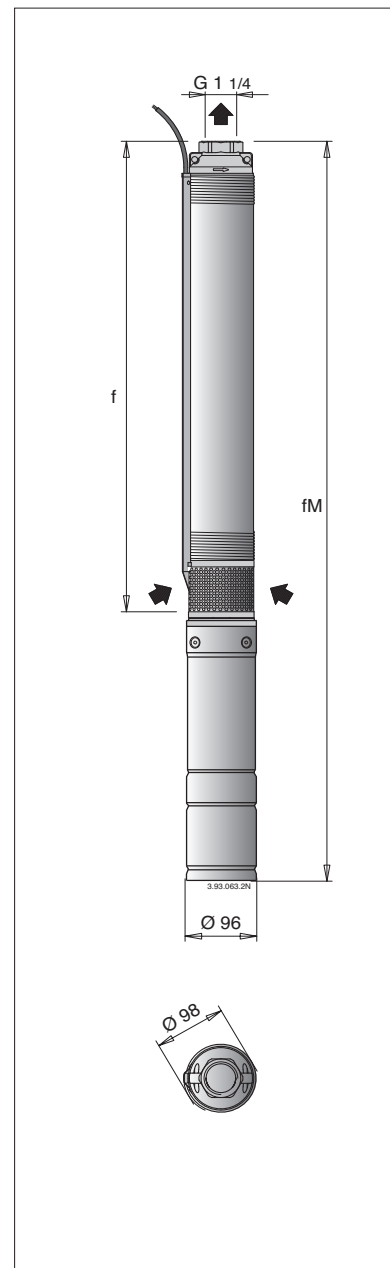
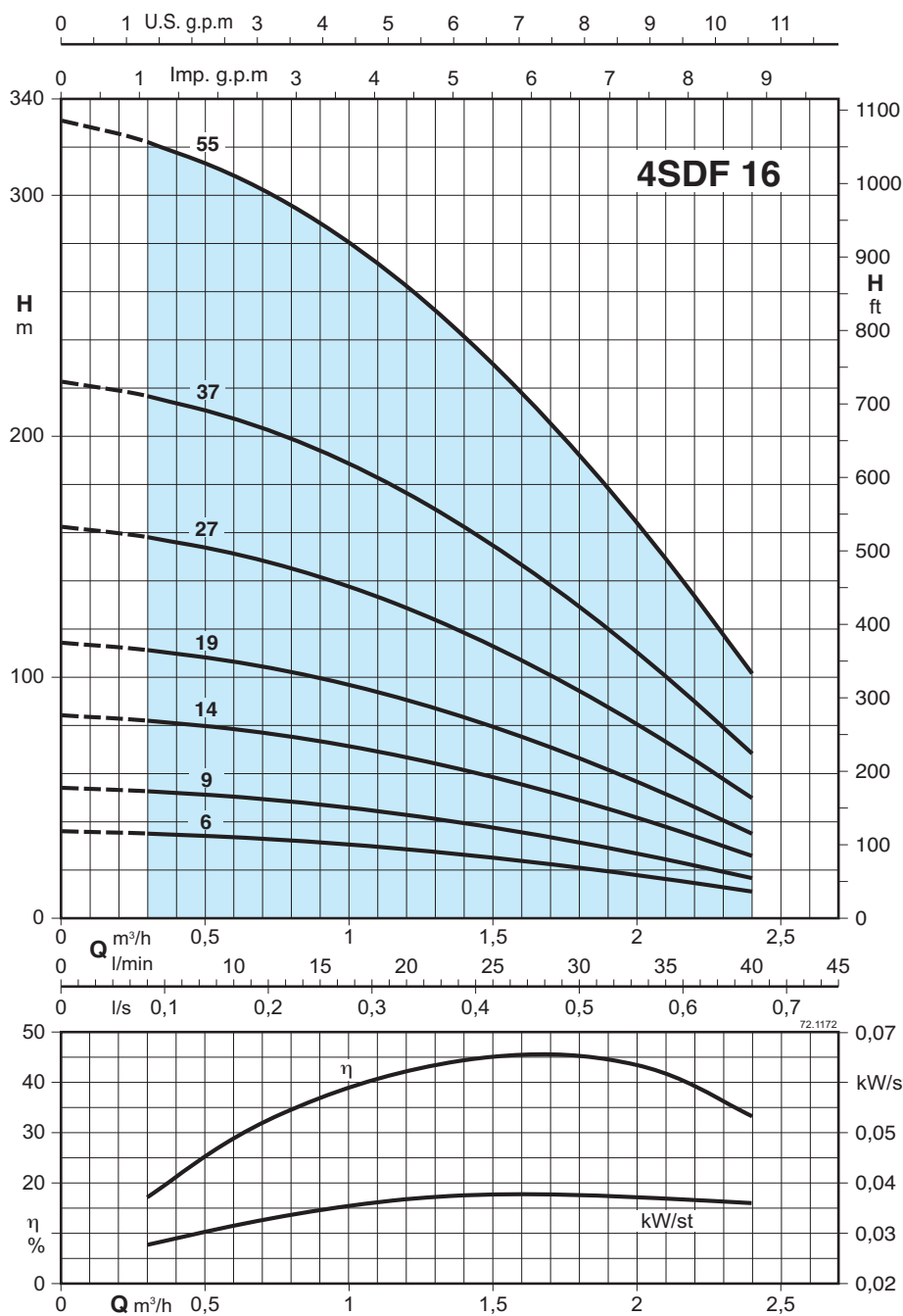


3~	400 V (380-415) 50 Hz A	1~	230V Capacitor *			P1 kW	P2 kW	HP	Q m³/h	n ≈ 2900 rpm												
			A	μF	kW					0	0,15	0,3	0,6	0,9	1,2	1,5	1,8					
4SD 31/11EC	1,2	4SDM 31/11EC	3,2	16	0,71	0,37	0,5	H m	47	45,6	43,8	39,3	33,8	28	20,9	14						
4SD 31/17EC	1,2	4SDM 31/17EC	3,2	16	0,71	0,37	0,5		70,5	67,7	64,5	57,3	49,4	40,9	31	20,2						
4SD 31/26EC	1,5	4SDM 31/26EC	4	25	0,91	0,55	0,75		107	104	98,9	87,9	75,2	61,2	45,7	28,1						
4SD 31/35EC	2,2	4SDM 31/35EC	5,6	30	1,24	0,75	1		138	131	124	109	92,6	73,8	53,1	30,8						
4SD 31/54EC	2,8	4SDM 31/54EC	8	40	1,71	1,1	1,5		211	203	193	170	144	116	86	52,9						

f	4SD		4SDM	
	fM	kg	fM	kg
402	729	12	729	11,6
520	847	13	847	12,6
698	1025	12,5	1060	15,7
875	1222	14,6	1237	17
1295	1657	18,7	1697	21,6

P1 Max. power input P2 Rated motor power output * Only for single-phase motor 230 V - 50 Hz (on request) Tolerances according to UNI EN ISO 9906:2012

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



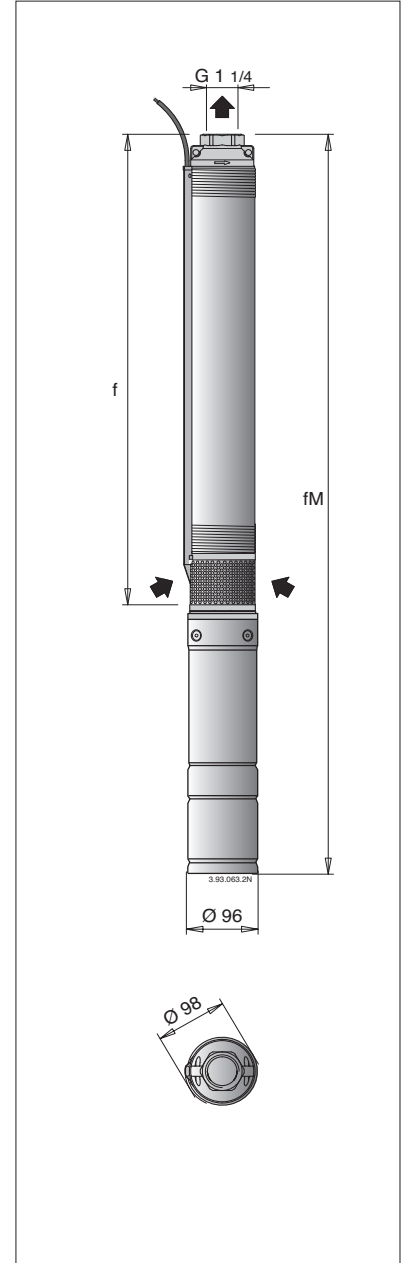
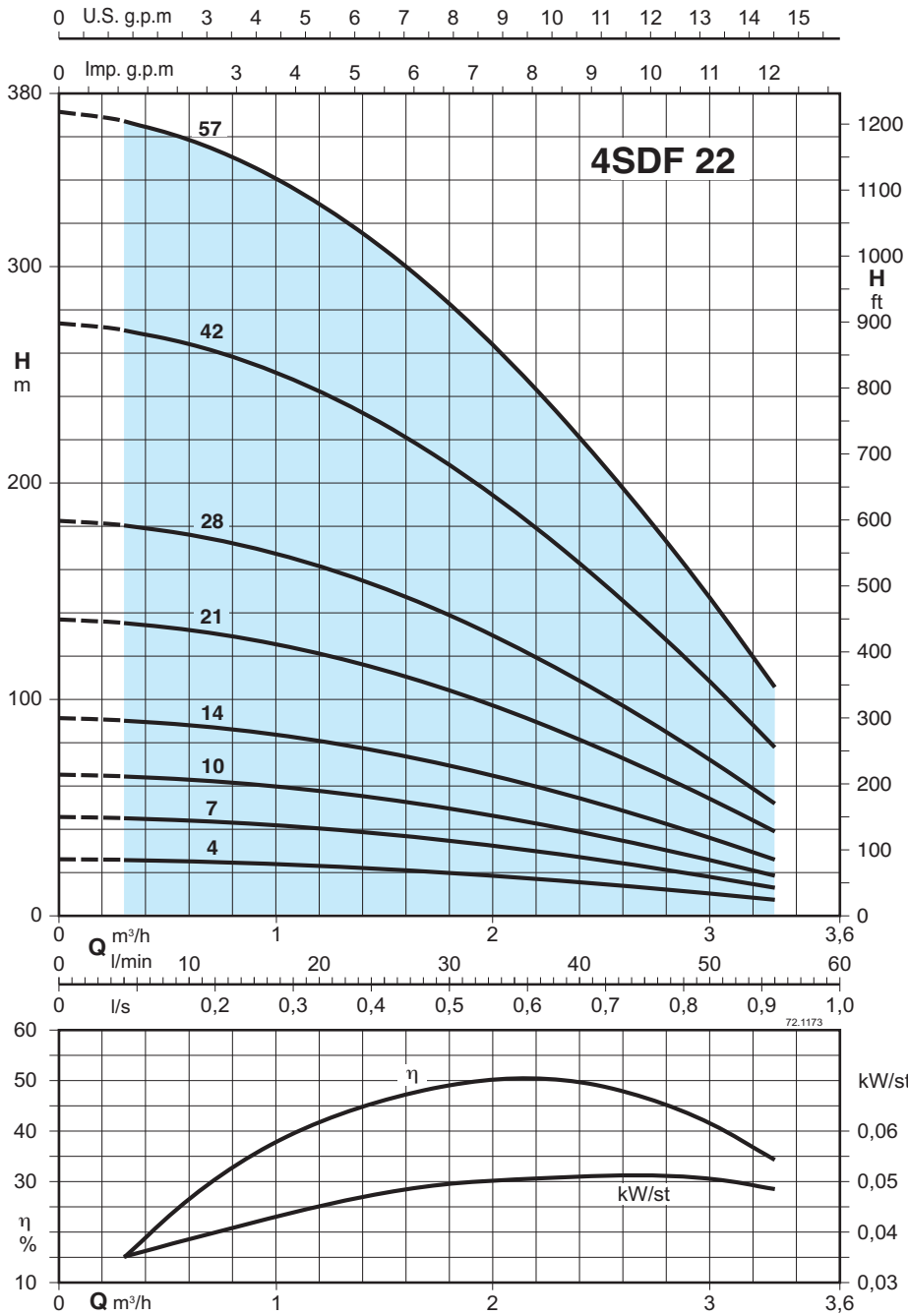
3~	400 V (380-415) 50 Hz	1~	230V* Capacitor					P ₂	Q	n ≈ 2900 rpm																	
			A	A	μF	kW	kW			HP	m³/h		H m														
											0	0,3	0,6	0,9	1,2	1,5	1,8	2,1	2,4								
4SDF 16/6EC	1,2	4SDFM 16/6EC	3,2	16	0,71	0,37	0,5	36,1	35,1	33,6	31,5	28,6	25,1	21	16,3	11,1											
4SDF 16/9EC	1,2	4SDFM 16/9EC	3,2	16	0,71	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	1,5	4SDFM 16/14EC	4	25	0,91	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	5,6	30	1,24	0,75	1	114	111	106	100	90,6	79,5	66,4	51,5	35,1											
4SDF 16/27EC	2,8	4SDFM 16/27EC	8	40	1,71	1,1	1,5	163	158	151	142	129	113	94,3	73,2	49,8											
4SDF 16/37EC	3,7	4SDFM 16/37EC	10,8	60	2,33	1,5	2	223	217	207	194	176	155	129	100	68,3											
4SDF 16/55EC	5,5	4SDFM 16/55EC	14,7	70	3,25	2,2	3	331	322	308	288	262	230	192	149	102											

f	4SDF		4SDFM	
	fM	kg	fM	kg
305	632	11	632	11,1
365	692	11,5	692	11,6
465	792	12,4	827	12,7
565	912	14,4	927	13,5
725	1087	16,7	1127	15,7
915	1317	19,9	1362	21,7
1325	1727	24,6	1842	30,6

P₁ Max. power input P₂ Rated motor power output * Only for single-phase motor 230 V - 50 Hz (on request) Tolerances according to UNI EN ISO 9906:2012

4SDF 22

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



3~	400 V (380-415) 50 Hz	1~	230V Capacitor P1				P2			Q m³/h l/min	n ≈ 2900 rpm										
			A	A	μF	kW	kW	HP	H m												
									0		0,3	0,6	0,9	1,2	1,5	1,8	2,4	3	3,3		
4SDF 22/4EC	1,2	4SDFM 22/4EC	3,2	16	0,71	0,37	0,5	26,1	25,8	25,2	24,3	23,1	21,6	19,8	15,5	10,3	7,4				
4SDF 22/7EC	1,2	4SDFM 22/7EC	3,2	16	0,71	0,37	0,5	45,6	45,1	44	42,5	40,4	37,8	34,7	27,1	18	13				
4SDF 22/10EC	1,5	4SDFM 22/10EC	4	25	0,91	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	5,6	30	1,24	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	2,8	4SDFM 22/21EC	8	40	1,71	1,1	1,5	137	135	132	127	121	113	104	81,4	54,1	38,9				
4SDF 22/28EC	3,7	4SDFM 22/28EC	10,8	60	2,33	1,5	2	182	180	176	170	162	151	139	109	72,2	51,9				
4SDF 22/42EC	5,5	4SDFM 22/42EC	14,7	70	3,25	2,2	3	274	271	264	255	242	227	208	163	108	77,8				
4SDF 22/57EC	7,4					3	4	371	367	359	346	329	308	283	221	147	106				

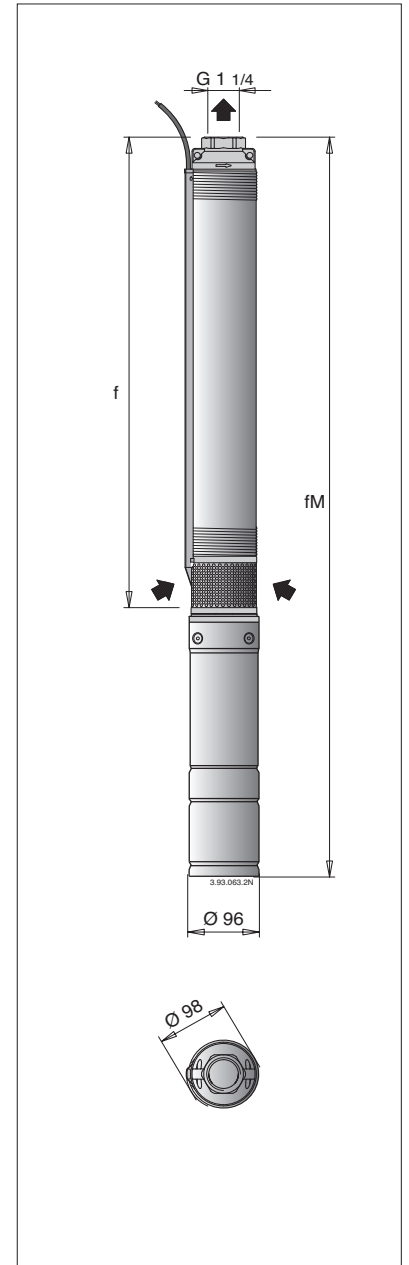
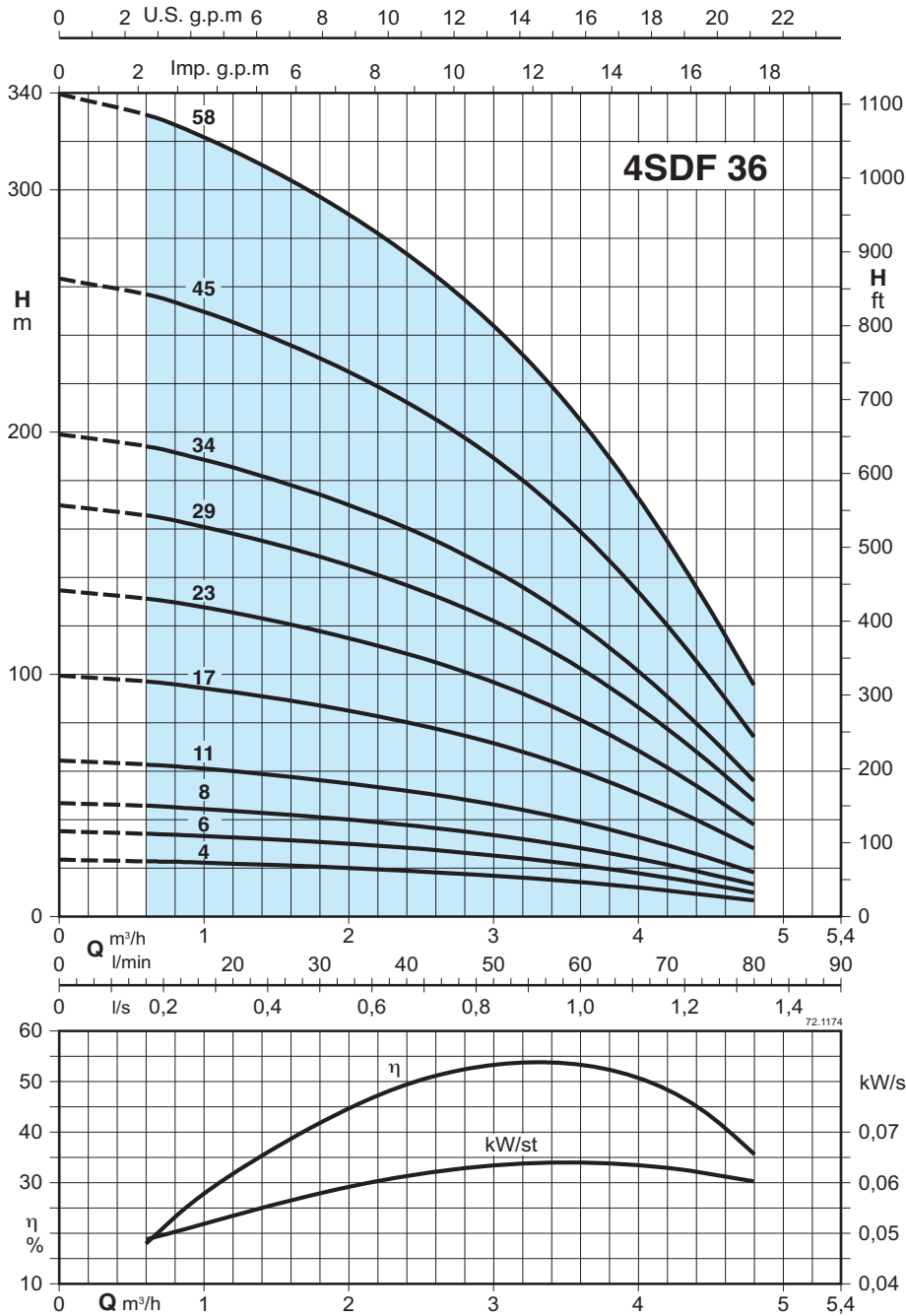
f mm	4SDF		4SDFM	
	fM mm	kg	fM mm	kg
265	592	10,6	592	10,6
325	652	11,2	652	11,1
385	712	9,7	747	13,4
465	812	11	827	14,1
605	967	13,4	1007	16,8
745	1147	15,6	1192	19,8
1015	1417	28,4	1532	25,8
1365	1846	33		

P1 Max. power input P2 Rated motor power output * Only for single-phase motor 230 V - 50 Hz (on request)

Tolerances according to UNI EN ISO 9906:2012

4SDF 36

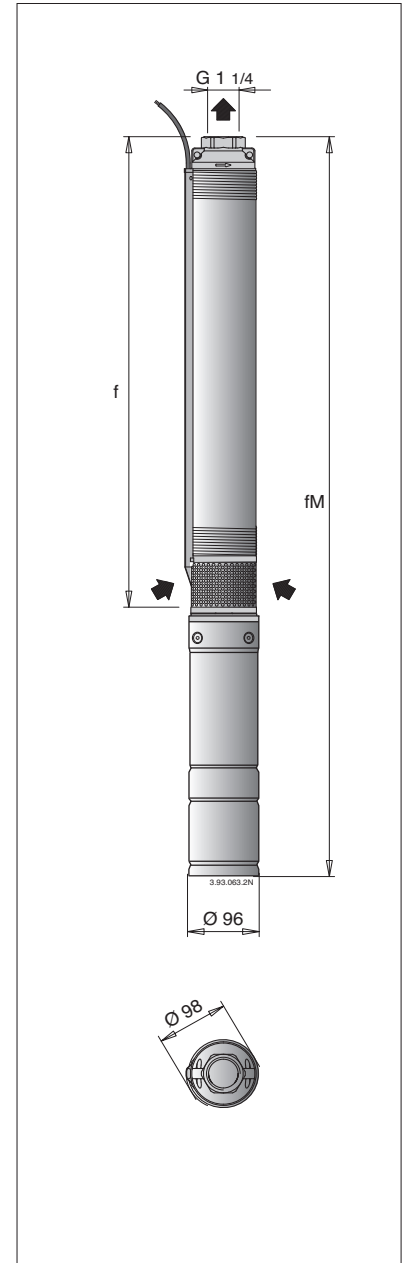
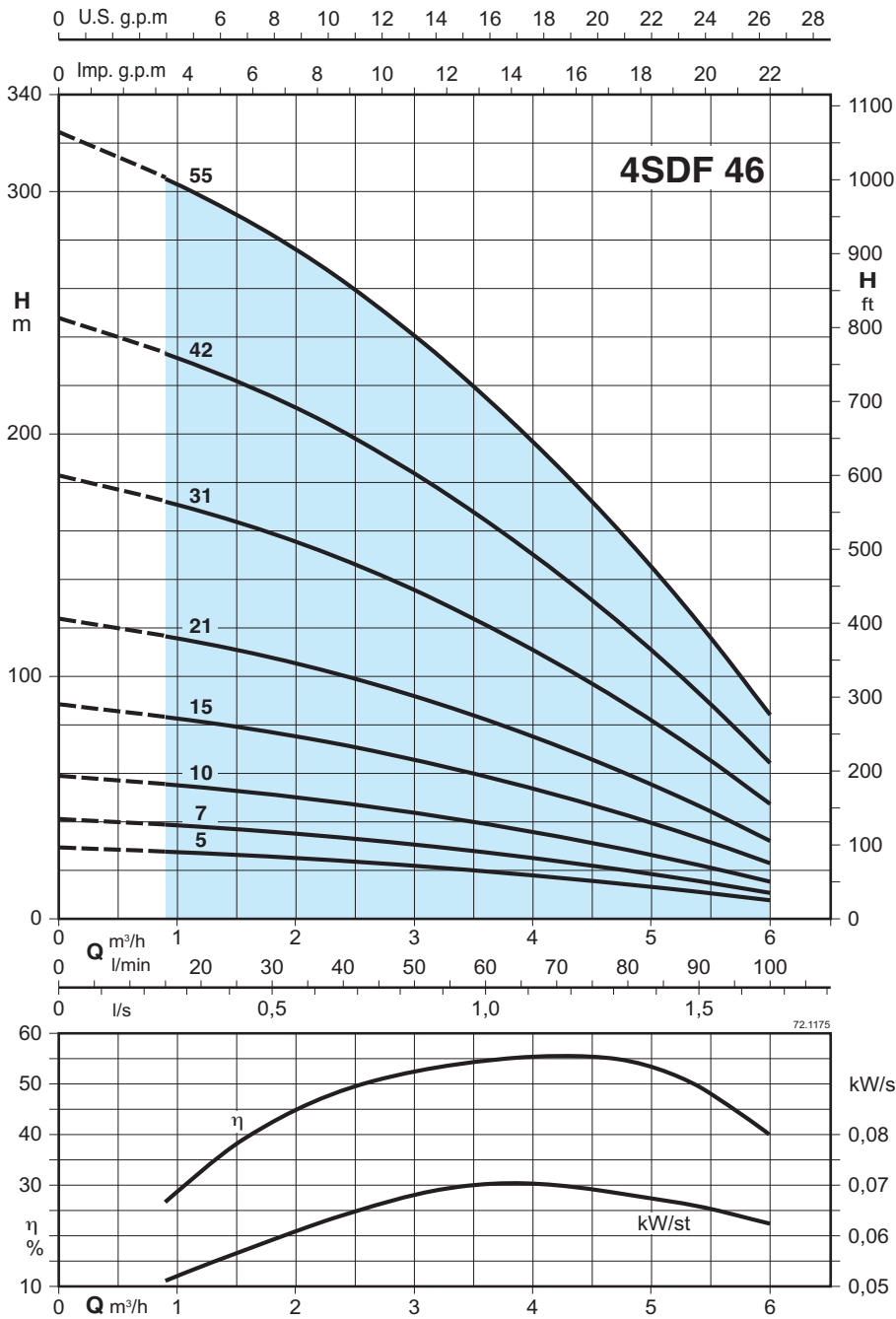
Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3~	400 V (380-415) 50 Hz	1~	230V Capacitor		P1 kW	P2 kW	HP	Q m³/h	n ≈ 2900 rpm													
			A	µF					H m													
									0	0,6	1,2	1,8	2,4	3	3,6	4,2	4,8					
4SDF 36/4EC	1,2	4SDFM 36/4EC	3,2	16	0,71	0,37	0,5	23,4	22,8	21,8	20,5	18,8	16,8	14,1	10,7	6,6						
4SDF 36/6EC	1,2	4SDFM 36/6EC	3,2	16	0,71	0,37	0,5	35,1	34,2	32,7	30,7	28,3	25,2	21,2	16	9,9						
4SDF 36/8EC	1,5	4SDFM 36/8EC	4	25	0,91	0,55	0,75	46,8	45,6	43,6	40,9	37,7	33,6	28,2	21,3	13,2						
4SDF 36/11EC	2,2	4SDFM 36/11EC	5,6	30	1,24	0,75	1	64,3	62,7	59,9	56,3	51,8	46,2	38,8	29,4	18,1						
4SDF 36/17EC	2,8	4SDFM 36/17EC	8	40	1,71	1,1	1,5	99,4	96,9	92,6	87	80,1	71,4	60	45,4	28						
4SDF 36/23EC	3,7	4SDFM 36/23EC	10,8	60	2,33	1,5	2	134	131	125	118	108	96,6	81,2	61,4	37,8						
4SDF 36/29EC	5,5	4SDFM 36/29EC	14,7	70	3,25	2,2	3	170	165	158	148	137	122	102	77,4	47,7						
4SDF 36/34EC	5,5	4SDFM 36/34EC	14,7	70	3,25	2,2	3	199	194	185	174	160	143	120	90,7	55,9						
4SDF 36/45EC	7,4					3	4	263	256	245	230	212	189	159	120	74						
4SDF 36/58EC	9,4					4	5,5	339	331	316	297	273	244	205	155	95,4						

f mm	4SDF		4SDFM	
	fM mm	kg	fM mm	kg
306	633	10,7	633	10,6
366	693	11,1	693	11
426	753	9,6	788	13,3
517	864	11	879	14,1
699	1061	13,4	1101	16,8
880	1282	15,7	1327	19,9
1063	1465	27,3	1580	24,7
1213	1694	28,7	1730	26,1
1590	2136	28,4		
1981	2627	34,3		

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



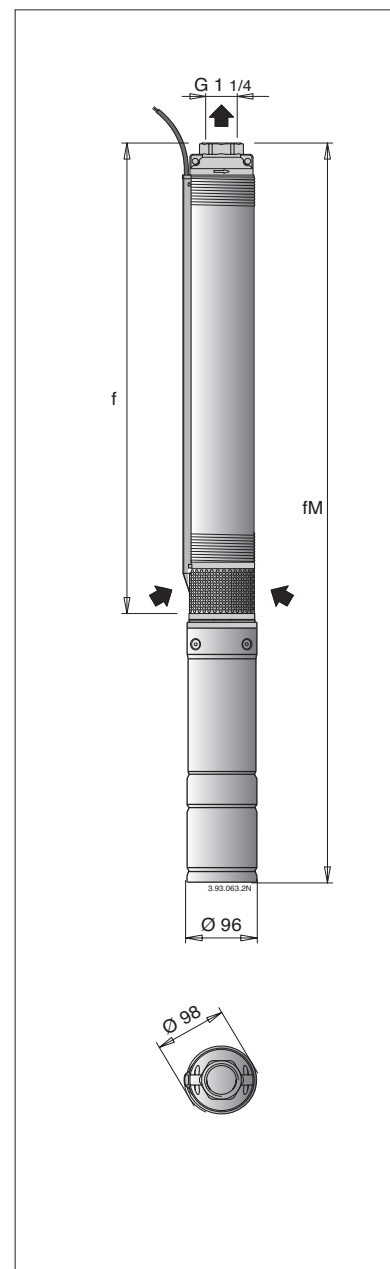
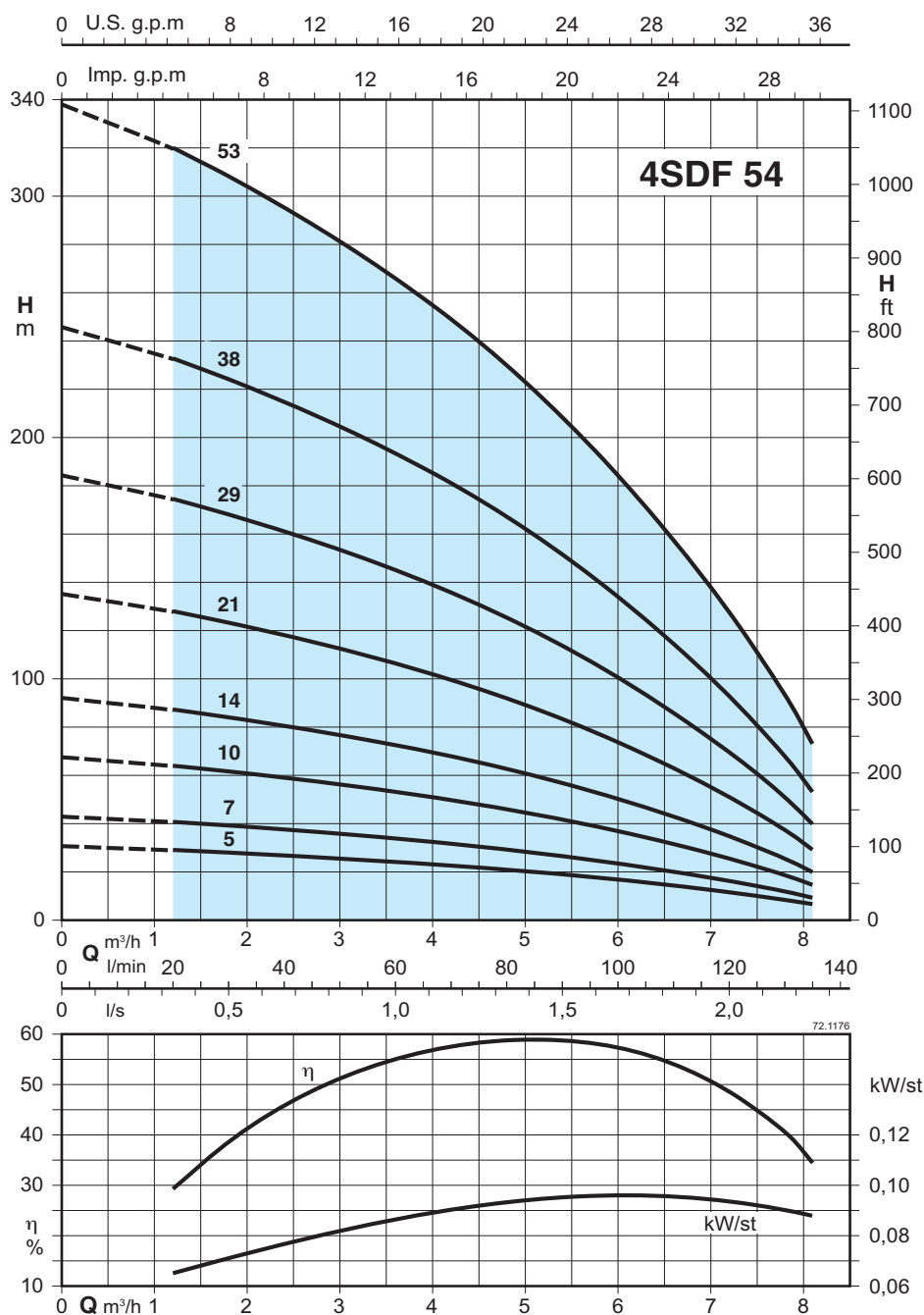
3~	400 V (380-415) 50 Hz	A	1~	230V Capacitor P1		P2		Q	n ≈ 2900 rpm											
				A	µF	kW	kW		HP	Q										
										m³/h										
4SDF 46/5EC	1,2	4SDFM 46/5EC	3,2	16	0,71	0,37	0,5	H m	0	0,9	1,2	1,8	2,4	3	3,6	4,2	4,8	6		
4SDF 46/7EC	1,5	4SDFM 46/7EC	4	25	0,91	0,55	0,75		0	15	20	30	40	50	60	70	80	100		
4SDF 46/10EC	2,2	4SDFM 46/10EC	5,6	30	1,24	0,75	1		29,4	27,8	27,1	25,6	23,9	21,9	19,6	17	14,2	7,6		
4SDF 46/15EC	2,8	4SDFM 46/15EC	8	40	1,71	1,1	1,5		41,2	38,9	37,9	35,9	33,5	30,6	27,4	23,8	19,9	10,7		
4SDF 46/21EC	3,7	4SDFM 46/21EC	10,8	60	2,33	1,5	2		58,9	55,5	54,2	51,3	47,8	43,7	39,1	34	28,4	15,3		
4SDF 46/31EC	5,5	4SDFM 46/31EC	14,7	70	3,25	2,2	3		88,3	83,3	81,3	76,9	71,7	65,6	58,7	51	42,6	22,9		
4SDF 46/42EC	7,4					3	4		124	117	114	108	100	91,9	82,2	71,4	59,6	32,1		
4SDF 46/55EC	9,4					4	5,5		183	172	168	159	148	136	121	105	88	47,4		
									247	233	228	215	201	184	164	143	119	64,2		
									324	305	298	282	263	241	215	187	156	84,1		

f	4SDF			4SDFM	
	fM	kg	fM	kg	
331	658	10,9	658	10,8	
392	719	9,4	754	13,1	
382	729	10,6	744	13,7	
634	996	12,7	1036	16,1	
815	1217	14,9	1262	19,1	
1117	1519	27,2	1632	24,6	
1495	1976	31,5			
1889	2435	38,6			

P1: Max. power input P2: Rated motor power output * Only for single-phase motor 230 V - 50 Hz (on request)

Tolerances according to UNI EN ISO 9906:2012

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

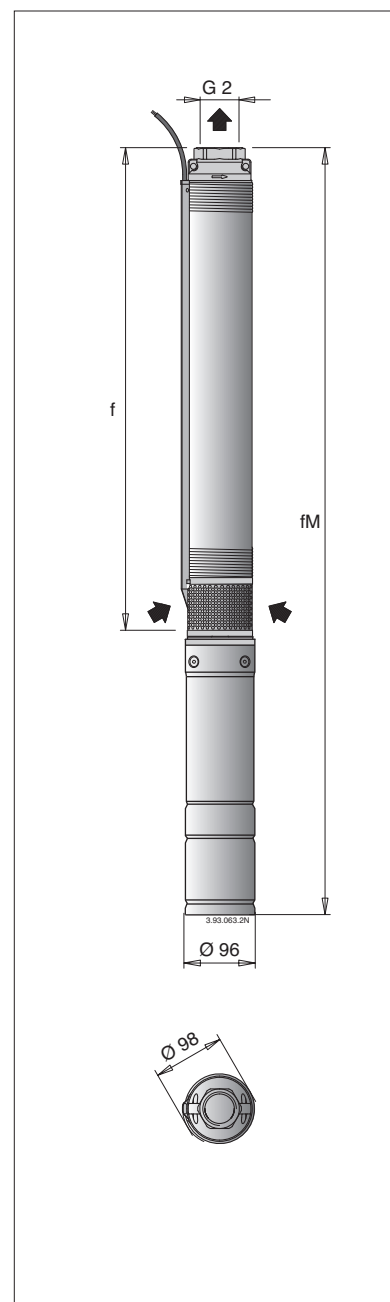
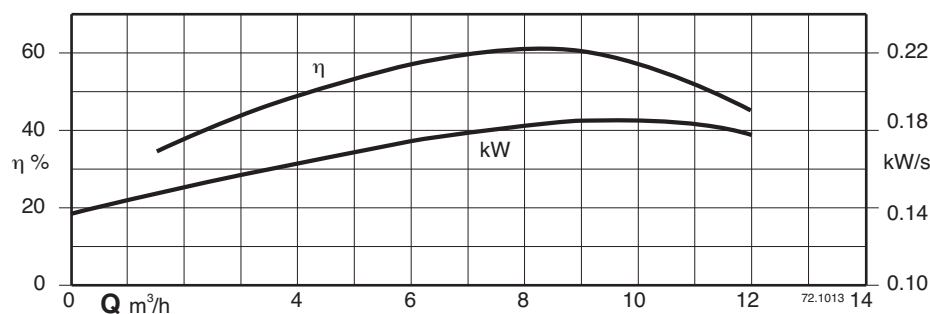
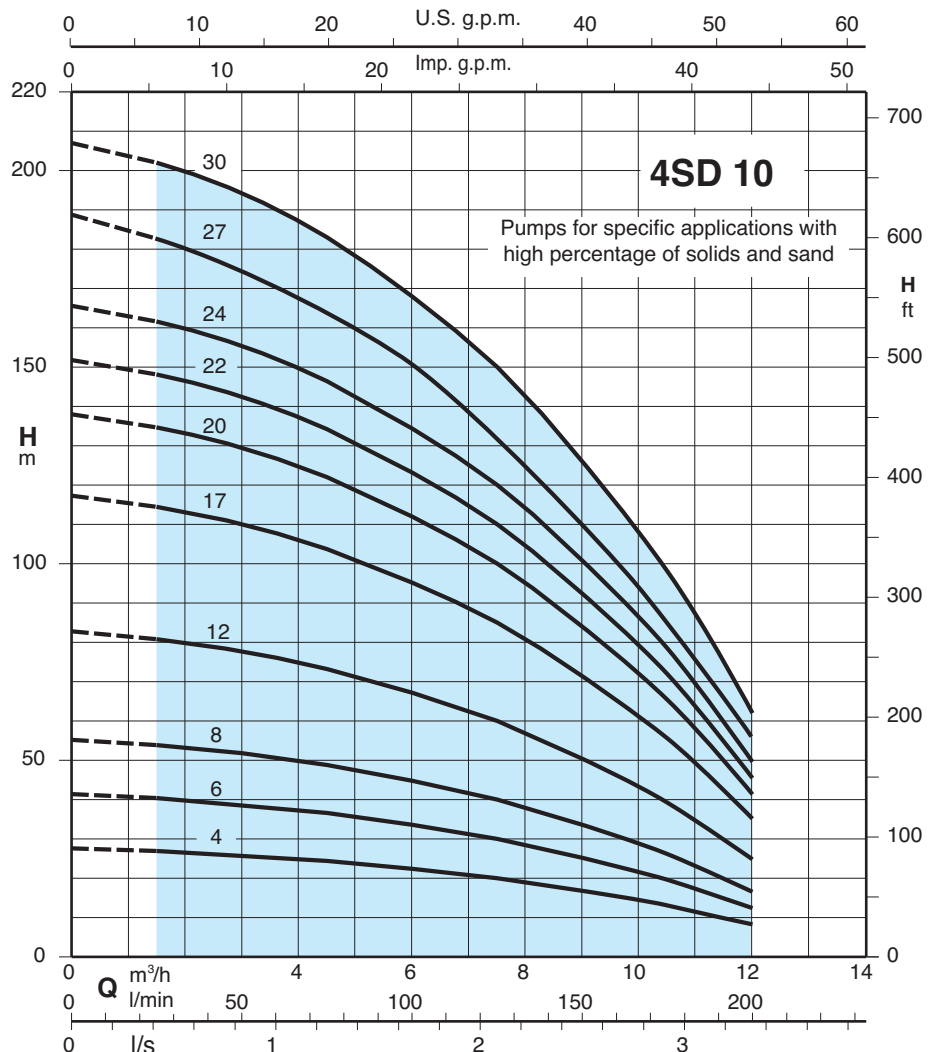


	400 V (380-415) 50 Hz		230V* Capacitor P1 450 Vc				P2		Q m³/h l/min	n ≈ 2900 rpm										
	3~ A	4SDFM 54/5EC	A	μF	kW	kW	HP	H m												
								0		1,2	1,8	2,4	3	3,6	4,8	6	7,2	8,1		
4SDF 54/5EC	1,5	4SDFM 54/5EC	4	25	0,91	0,55	0,75	30,8	29,1	28	26,8	25,6	24,2	20,9	16,8	11,6	6,6			
4SDF 54/7EC	2,2	4SDFM 54/7EC	5,6	30	1,24	0,75	1	43,1	40,7	39,2	37,6	35,8	33,8	29,3	23,5	16,3	9,3			
4SDF 54/10EC	2,8	4SDFM 54/10EC	8	40	1,71	1,1	1,5	67,7	64	61,6	59,1	56,3	53,2	46	36,9	25,6	14,6			
4SDF 54/14EC	3,7	4SDFM 54/14EC	10,8	60	2,33	1,5	2	92,3	87,3	84,1	80,5	76,7	72,5	62,7	50,3	34,8	19,9			
4SDF 54/21EC	5,5	4SDFM 54/21EC	14,7	70	3,25	2,2	3	135	128	123	118	113	106	92	73,7	51,1	29,2			
4SDF 54/29EC	7,4					3	4	185	175	168	161	153	145	125	101	69,7	39,9			
4SDF 54/38EC	9,4					4	5,5	246	233	224	215	205	193	167	134	92,9	53,1			
4SDF 54/53EC	13					5,5	7,5	338	320	308	295	281	266	230	184	128	73,1			

f	4SDF			4SDFM	
	fM mm	kg	fM mm	kg	
340	667	8,9	702	12,6	
400	747	10	762	13,1	
490	852	11,7	892	15,1	
610	1012	13,6	1057	17,8	
820	1222	25,4	1337	22,8	
1060	1541	28,8			
1380	1926	35,6			
1830	2476	41,8			

P1: Max. power input P2: Rated motor power output * Only for single-phase motor 230 V - 50 Hz (on request) Tolerances according to UNI EN ISO 9906:2012

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

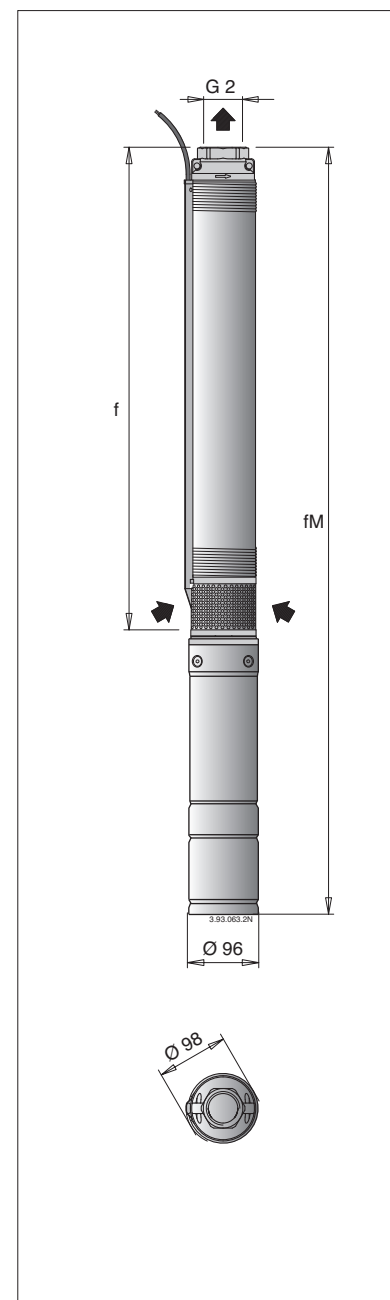
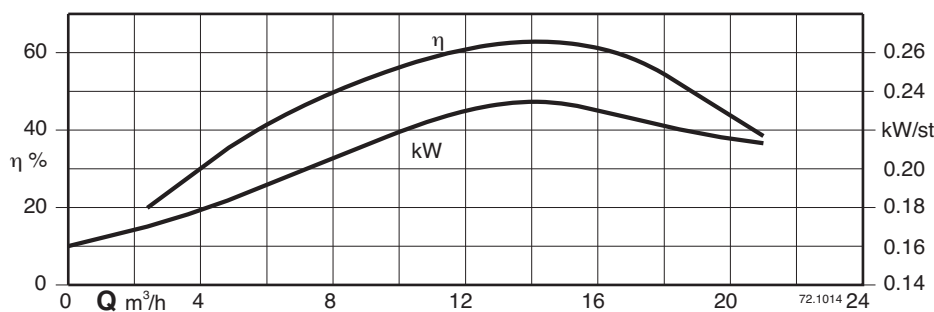
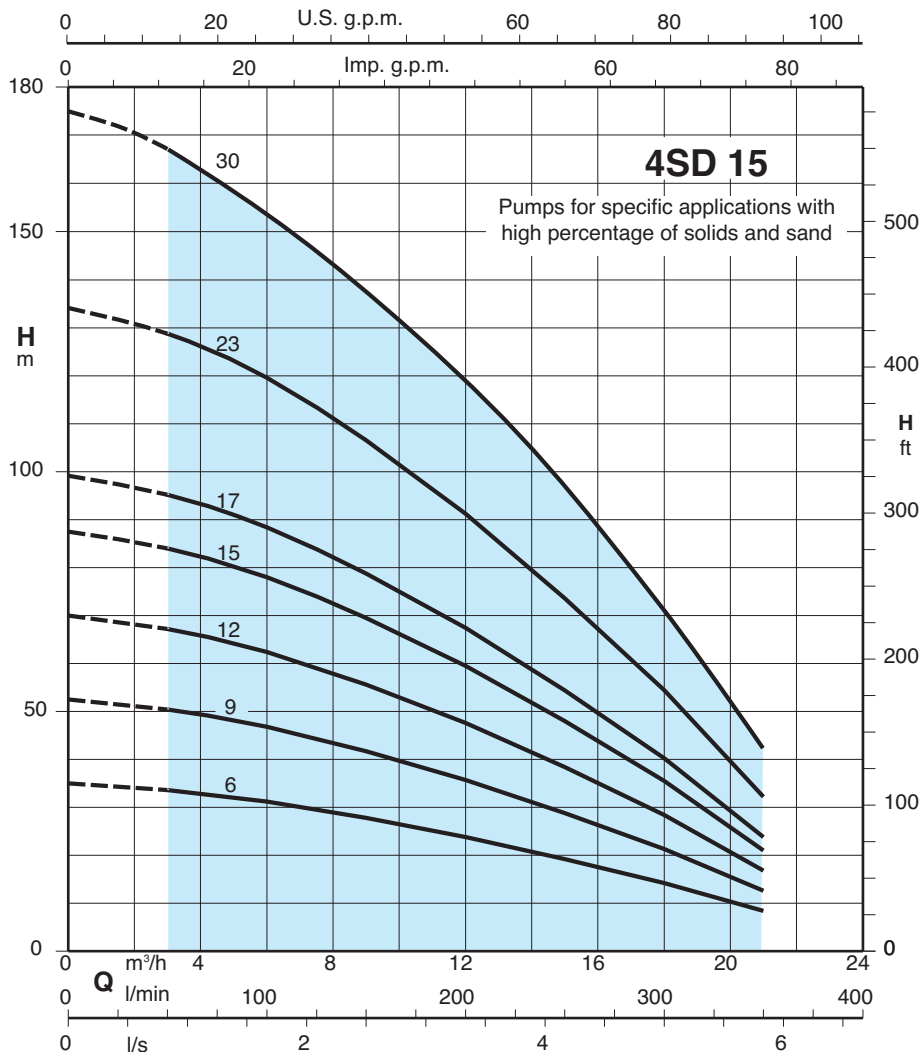


3~ 400 V (380-415) 50 Hz A	1~ 230V Capacitor P1 450 Vc A μF kW	P2 kW HP	Q m³/h l/min	n ≈ 2900 rpm											
				H m											
				1,5	2,4	3	3,6	4,8	6	7,2	8,4	9,6	10,8	12	
4SD 10/4EC	2,2	4SDM 10/4EC	5,6 30 1,24	0,75 1	27	26	26	25	24	23	20	18	15	12	8
4SD 10/6EC	2,8	4SDM 10/6EC	8 40 1,71	1,1 1,5	40	39	39	38	36	34	31	27	23	18	12
4SD 10/8EC	3,7	4SDM 10/8EC	10,8 60 2,33	1,5 2	54	53	52	51	48	45	41	36	30	25	16
4SD 10/12EC	5,5	4SDM 10/12EC	14,7 70 3,25	2,2 3	81	79	78	76	72	67	61	54	46	37	25
4SD 10/17EC	7,4			3 4	114	112	111	108	102	95	87	76	65	52	35
4SD 10/20EC	9,4			4 5,5	134	132	130	127	120	112	102	90	76	61	41
4SD 10/22EC	9,4			4 5,5	148	145	143	139	132	123	112	99	84	67	45
4SD 10/24EC	9,4			4 5,5	162	158	156	152	144	134	122	108	91	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

f mm	4SD		4SDM	
	fM mm	kg	fM mm	kg
409	756	10,4	771	12,8
515	877	12,1	917	15
621	1023	13,9	1068	17,5
833	1235	25,9	1350	22,7
1098	1579	28		
1312	1858	36		
1418	1964	36,8		
1524	2070	37,6		
1683	2329	41,1		
1842	2488	42,1		

P1 Max. power input P2 Rated motor power output * Only for single-phase motor 230 V - 50 Hz (on request) Tolerances according to UNI EN ISO 9906:2012

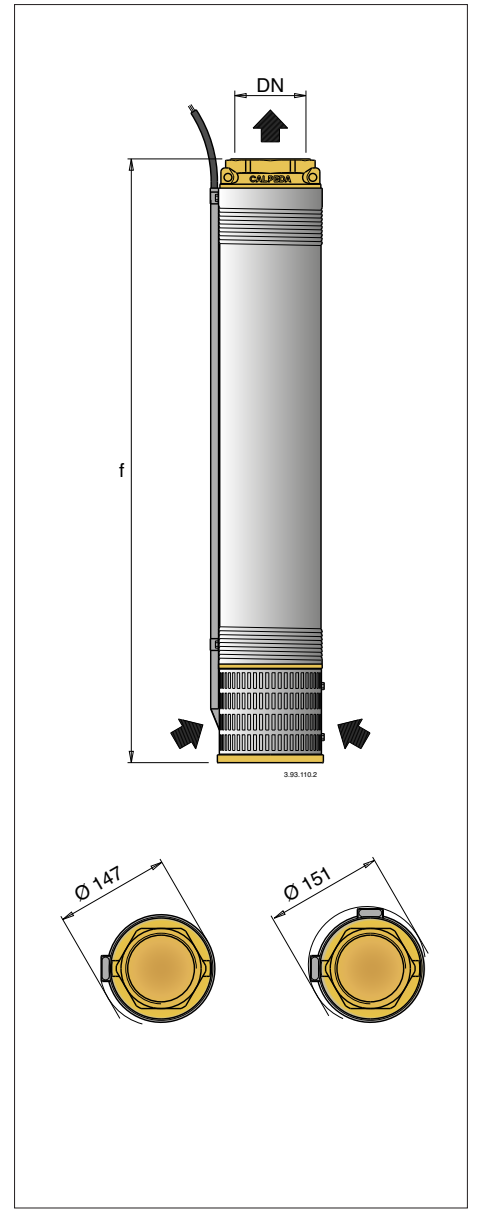
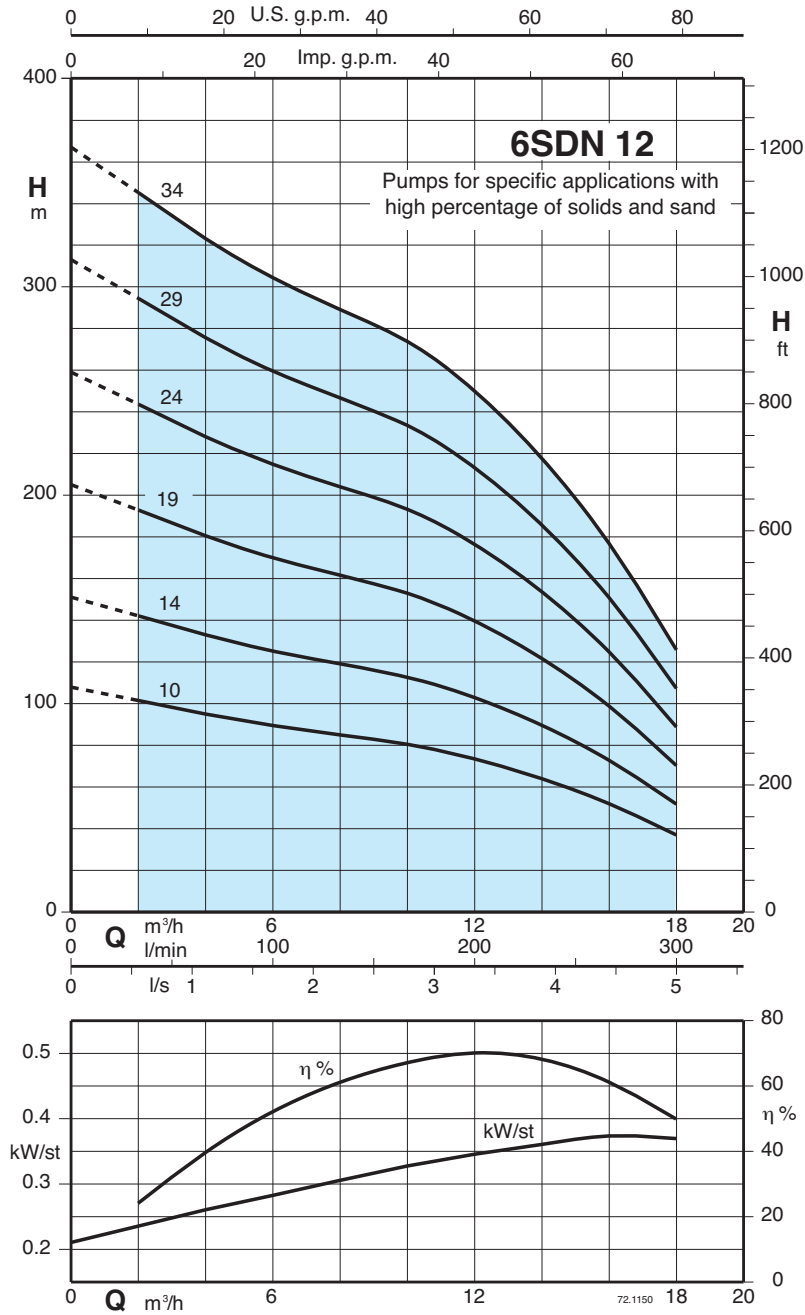
Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



	3~ 400 V (380-415) 50 Hz A	1~ 230V * Capacitor P1 450 Vc A	P2 kW	P2 HP	n \approx 2900 rpm													4SD		4SDM				
					Q m³/h	H m												f	fM	kg	fM	kg		
						l/min	3	3,6	4,8	6	7,2	8,4	9,6	10,8	12	15	18	21	mm	mm		mm		
4SD 15/6EC	3,7	4SDM 15/6EC	10,8	60	2,33	1,5	2	33	33	32	31	30	29	28	26	24	19	14	8	755	1157	13,8	1202	17,4
4SD 15/9EC	5,5	4SDM 15/9EC	14,7	70	3,25	2,2	3	50	49	48	47	45	43	42	38	36	29	21	13	988	1390	33	1505	30,2
4SD 15/12EC	7,4					3	4	67	66	64	62	59	57	56	51	48	38	28	17	1299	1780	34,3		
4SD 15/15EC	9,4					4	5,5	84	83	81	78	74	71	69	64	59	48	35	21	1601	2147	40,6		
4SD 15/17EC	9,4					4	5,5	95	94	92	88	84	81	79	72	67	54	40	24	1756	2302	41,4		
4SD 15/23EC	13					5,5	7,5	129	127	124	120	114	109	107	98	91	74	54	32	2291	2937	49,4		
4SD 15/30E	18,8					7,5 ¹⁾	10 ¹⁾	168	166	162	156	149	142	140	128	119	97	70	42	2836	3610	62		

P1: Max. power input P2: Rated motor power output * Only for single-phase motor 230 V - 50 Hz (on request) Tolerances according to UNI EN ISO 9906:2012
 1) Franklin motor

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



3~	P ₂		Q	n ≈ 2900 rpm												
	kW	HP		m³/h	2	4	6	8	10	12	14	16	18			
				l/min	33,3	66,6	100	133,3	166,6	200	233	266	300			
6SDN 12/10	4	5,5	H m	102	95	89,5	85	80,5	73,5	64	52	37				
6SDN 12/14	5,5	7,5		142	133	125	119	113	103	89,5	73	52				
6SDN 12/19	7,5	10		193	181	170	162	153	140	122	99	70,5				
6SDN 12/24	9,2	12,5		244	231	215	204	193	176	154	125	89				
6SDN 12/29	11	15		294	276	260	247	233	213	186	151	107				
6SDN 12/34	13 (15)	17,5 (20)		345	323	304	289	274	250	218	177	126				

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

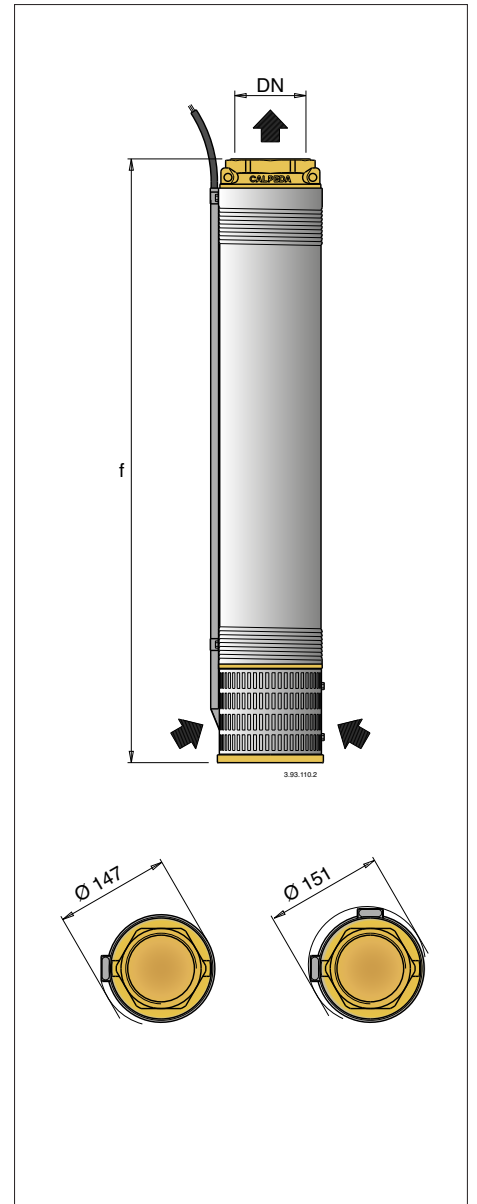
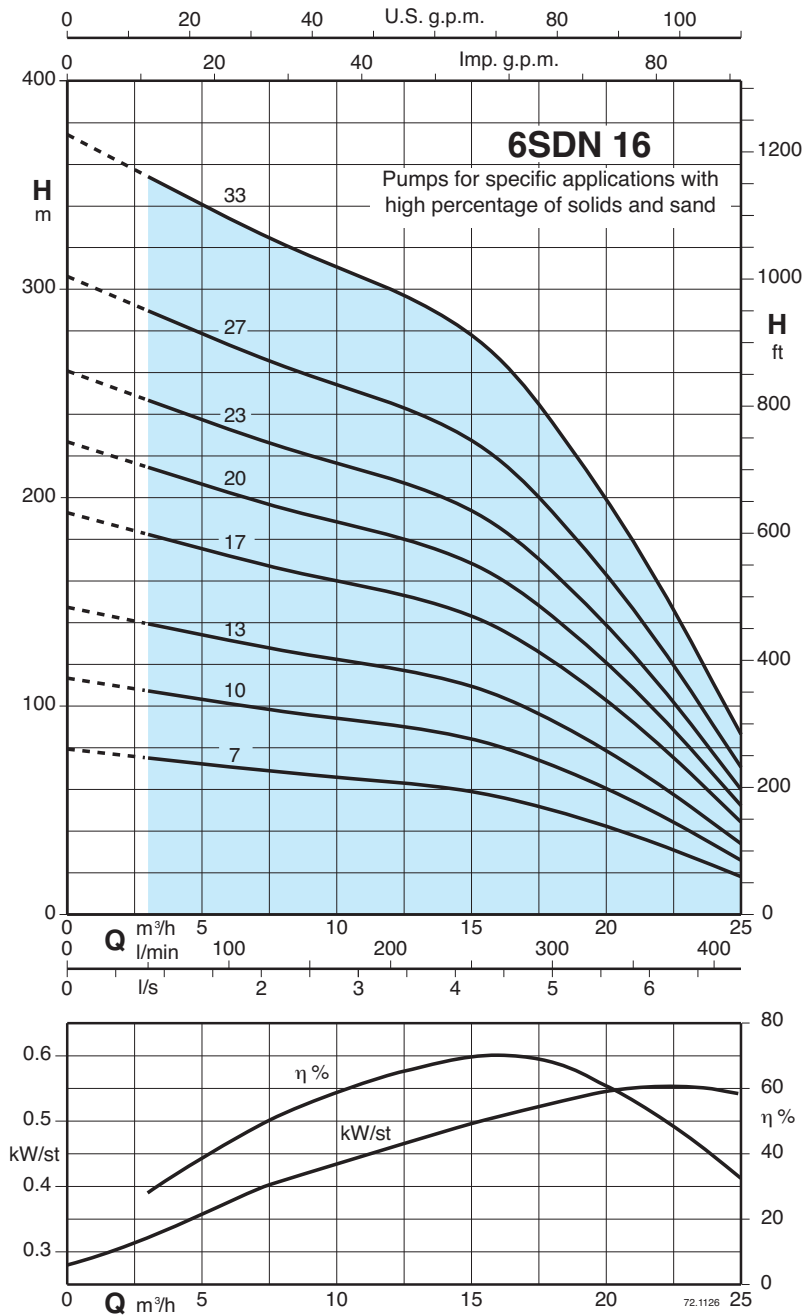
P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to UNI EN ISO 9906:2012

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



3~	P ₂		Q	n ≈ 2900 rpm											
				m³/h											
	kW	HP		3	6	9	12	15	18	21	25				
6SDN 16/7	4	5,5	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	f	
	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	

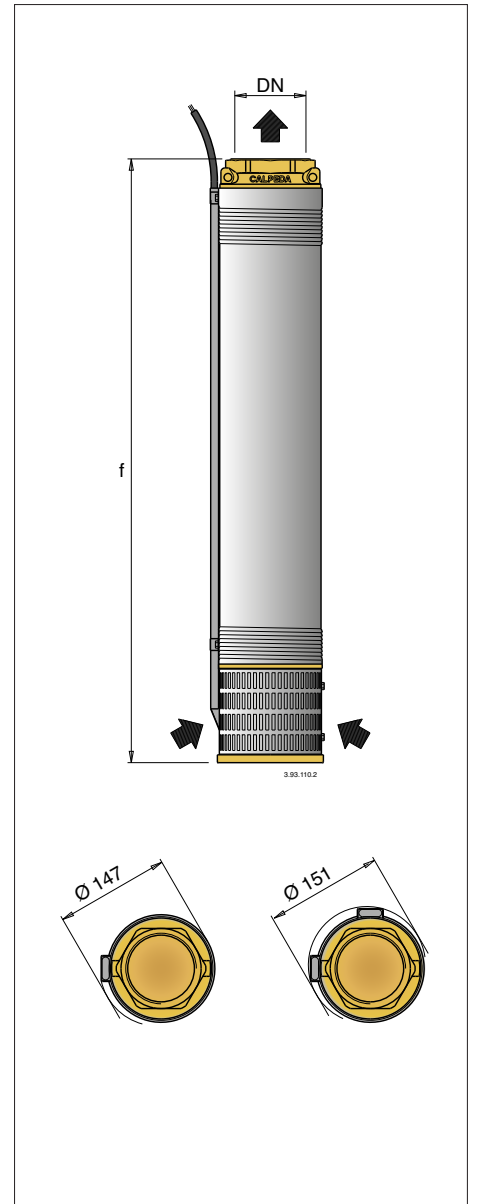
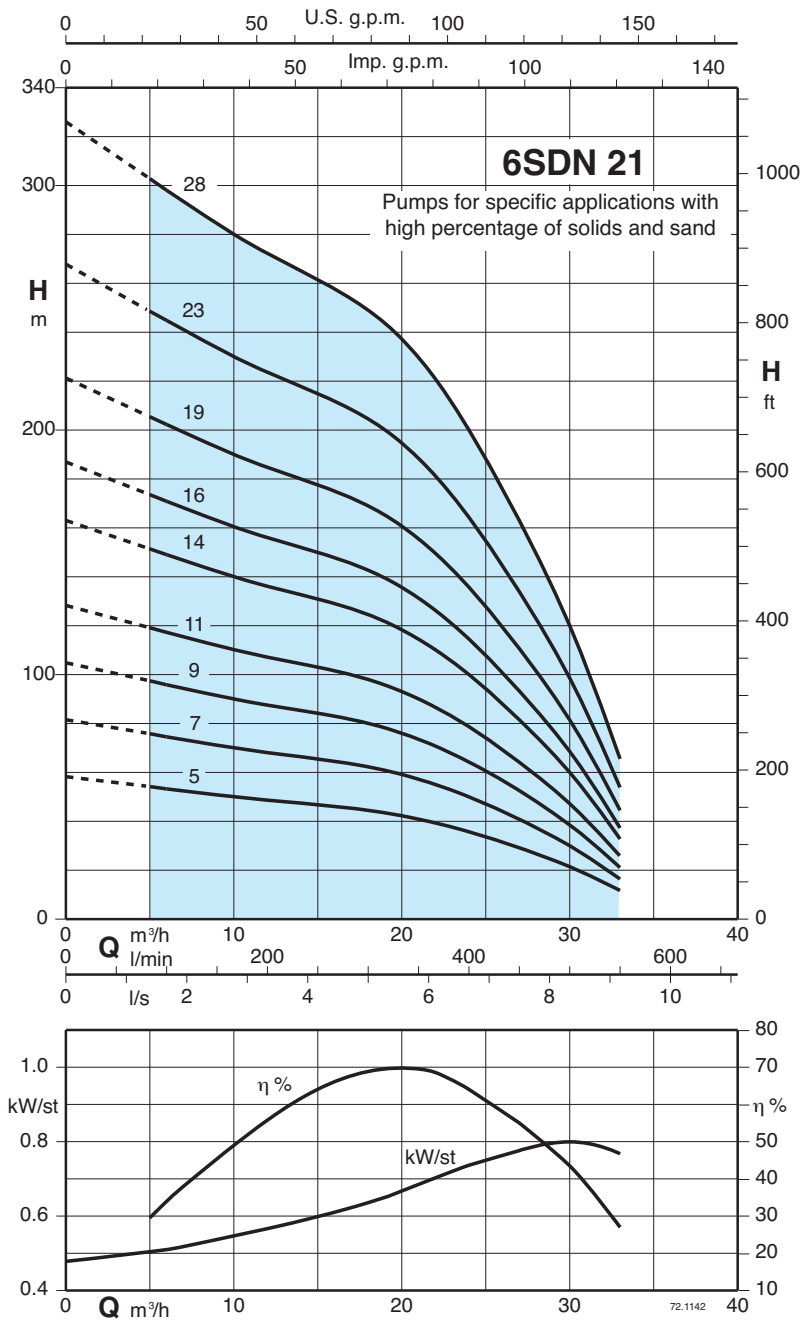
P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to UNI EN ISO 9906:2012

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



3~	P2		Q	$n \approx 2900$ rpm										
	kW	HP		m³/h										
				5	9	12	15	18	21	24	27	30	33	
6SDN 21/5	4	5,5	83,3	150	200	250	300	350	400	450	500	550		
6SDN 21/7	5,5	7,5	54	51	48,5	46,5	45	41,5	36	29	21,5	11,5		
6SDN 21/9	7,5	10	75,5	71,5	68	65	62,5	58	50	41	30	16		
6SDN 21/11	9,2	12,5	97	92	87,5	83,5	80,5	74,5	64,5	53	38,5	21		
6SDN 21/14	11	15	119	112	107	102	99	91	79	64	47	25,5		
6SDN 21/16	13 (15)	17,5 (20)	151	143	136	130	125	116	100	81,5	60	32,5		
6SDN 21/19	15	20	173	163	155	149	143	132	114	93	69	37		
6SDN 21/23	18,5	25	205	194	185	176	170	157	136	111	81,5	44		
6SDN 21/28	22	30	249	235	224	213	206	190	164	134	99	53		
			303	286	272	260	251	231	200	163	120	64,5		

DN	f	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

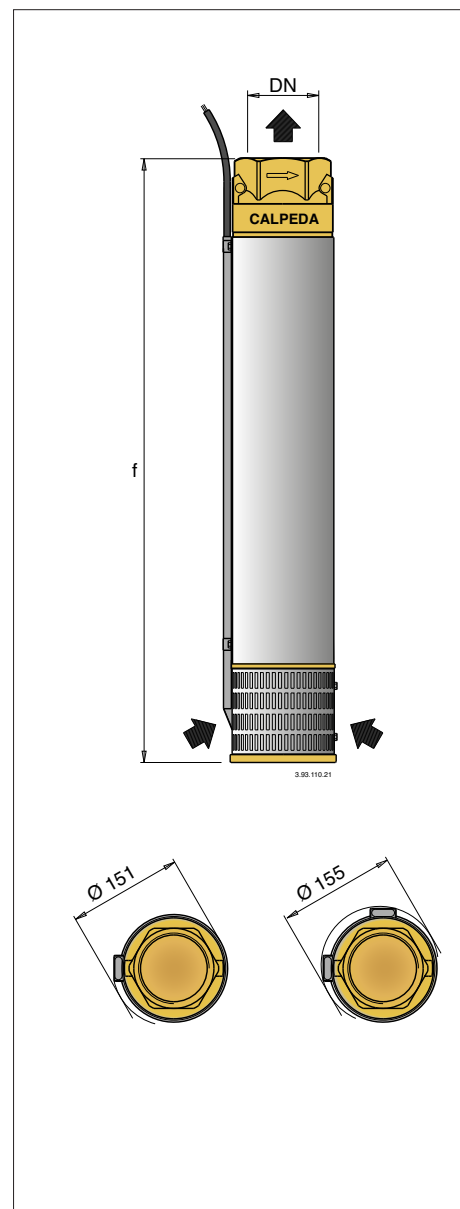
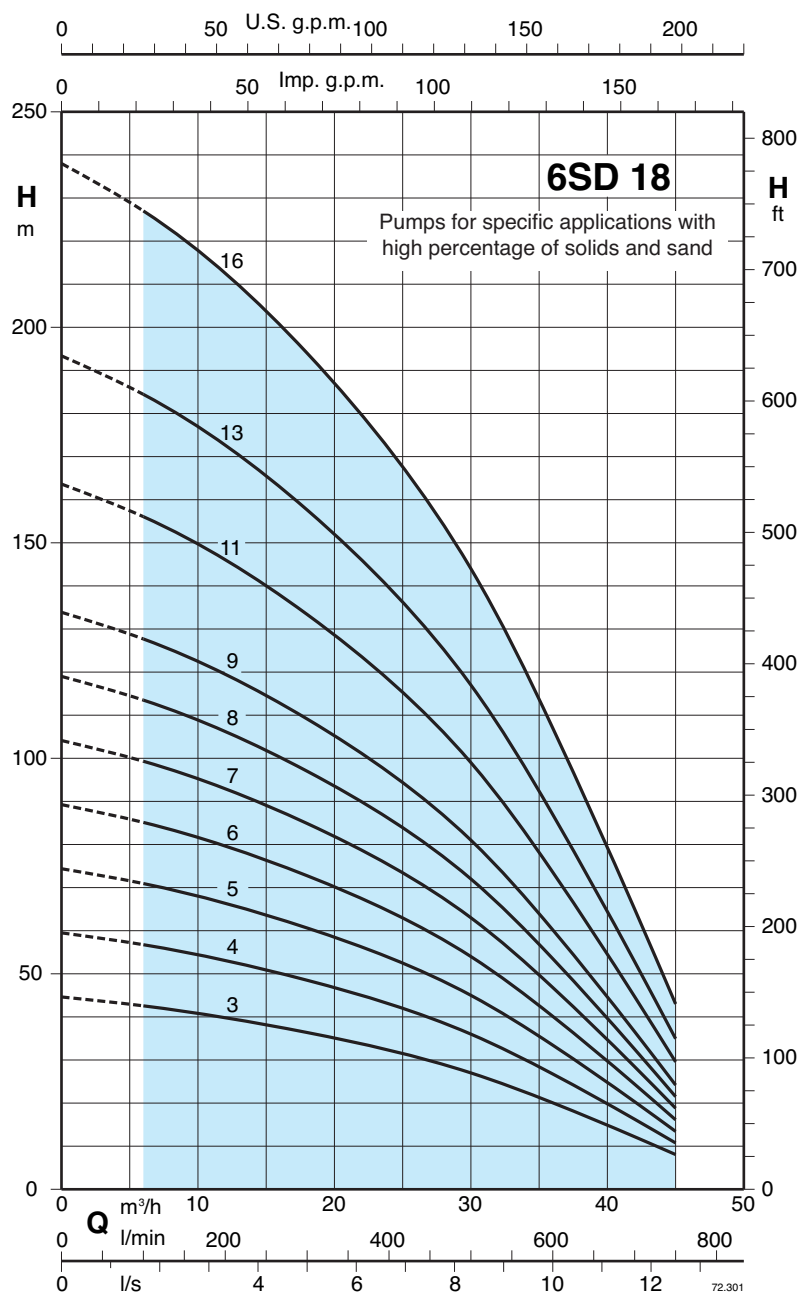
P2 Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to UNI EN ISO 9906:2012

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



3~	P ₂		Q	n ≈ 2900 rpm												
	kW	HP		H												
			l/min	6	12	18	24	30	36	42	45					
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	f	
	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

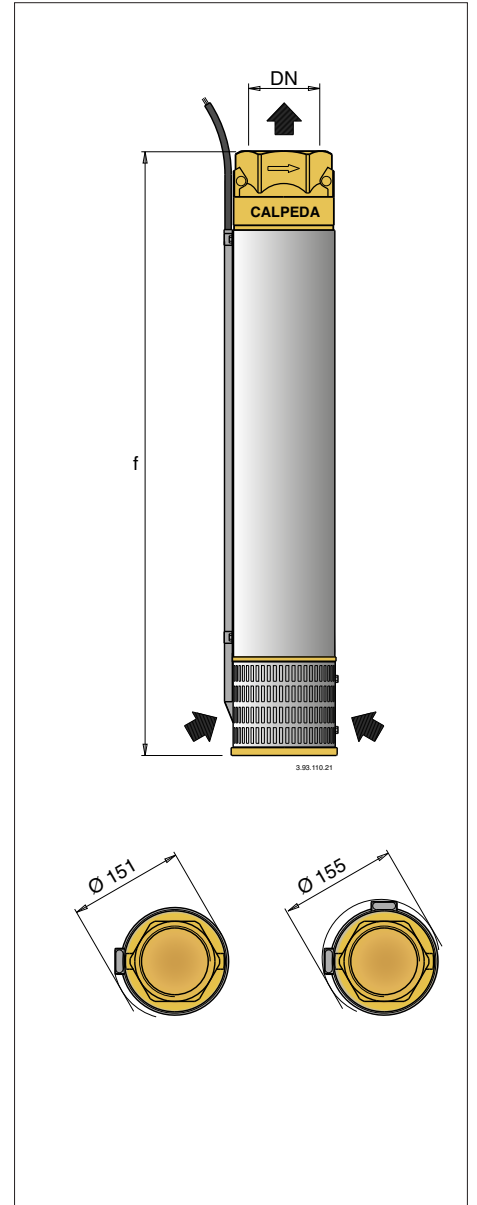
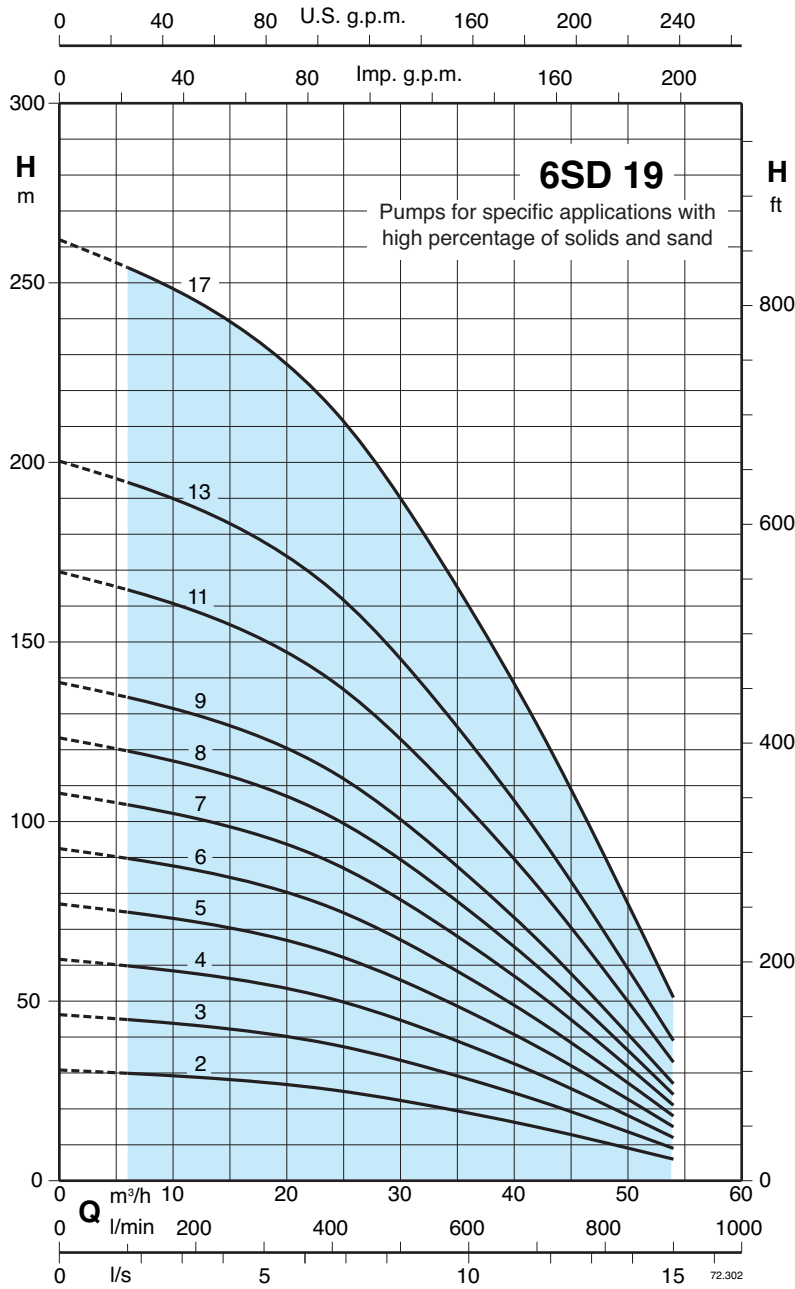
P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to UNI EN ISO 9906:2012

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



3~	P ₂		Q	n ≈ 2900 rpm												
	kW	HP		m³/h	6	12	18	24	30	36	42	48	54			
					l/min	100	200	300	400	500	600	700	800	900		
6SD 19/2	4	5,5	H m	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	f	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	

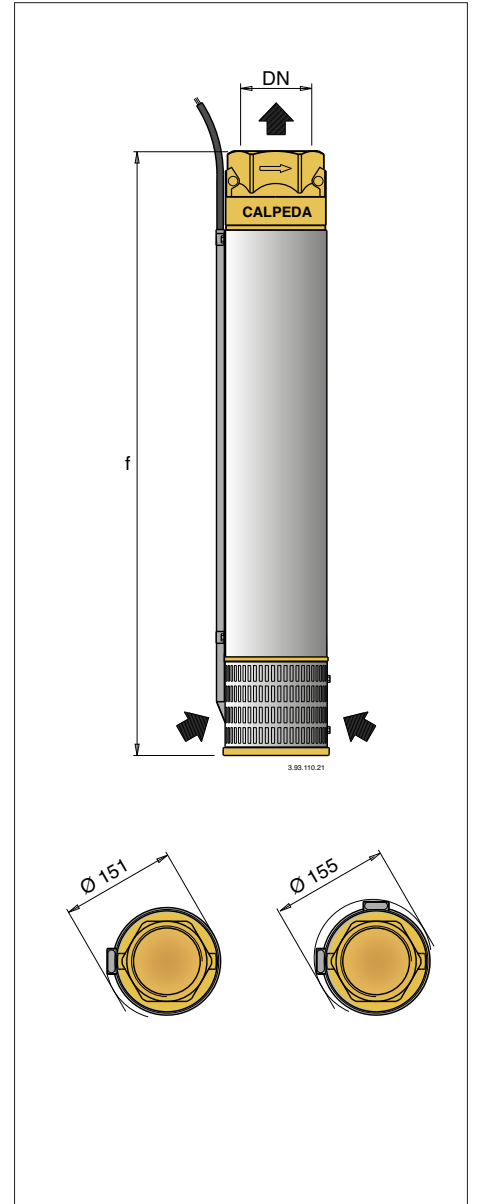
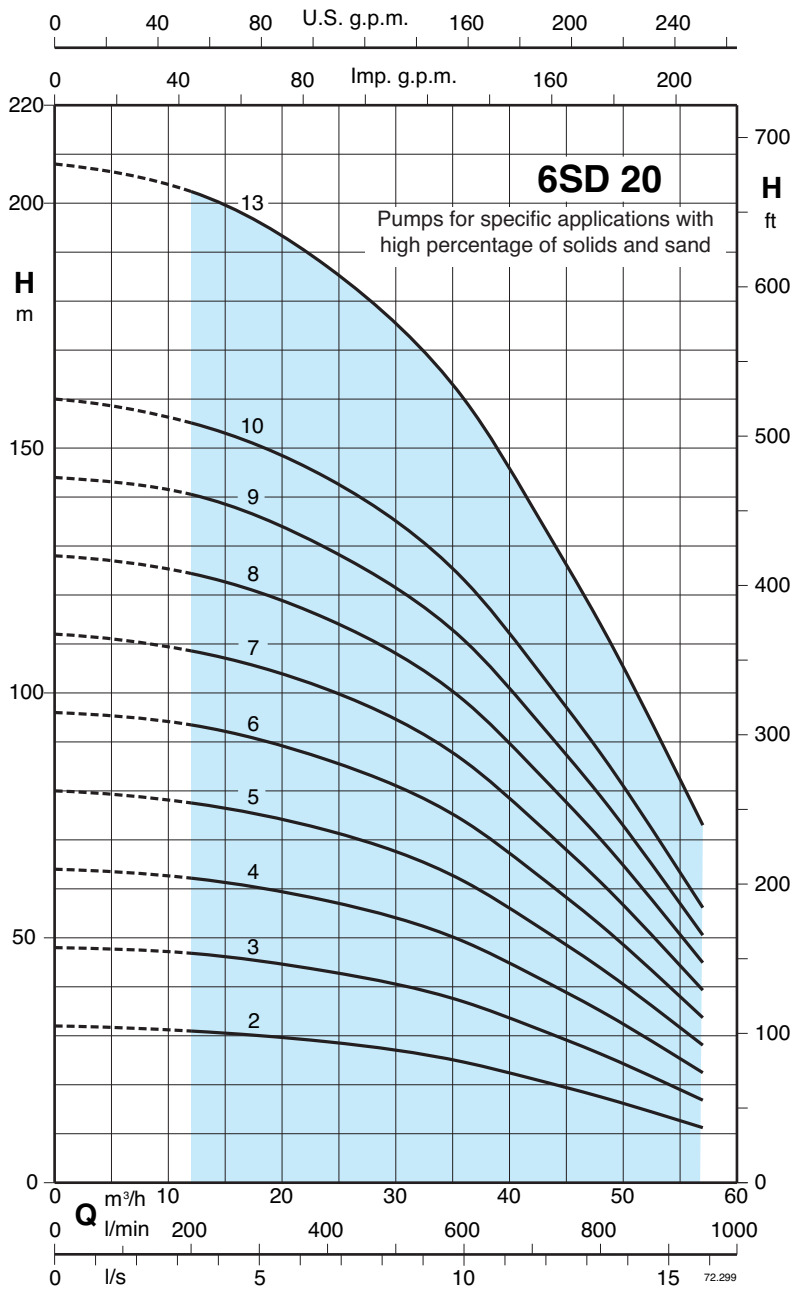
P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to UNI EN ISO 9906:2012

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



3~	P ₂		Q	n ≈ 2900 rpm														
	kW	HP		H														
				m														
			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		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						

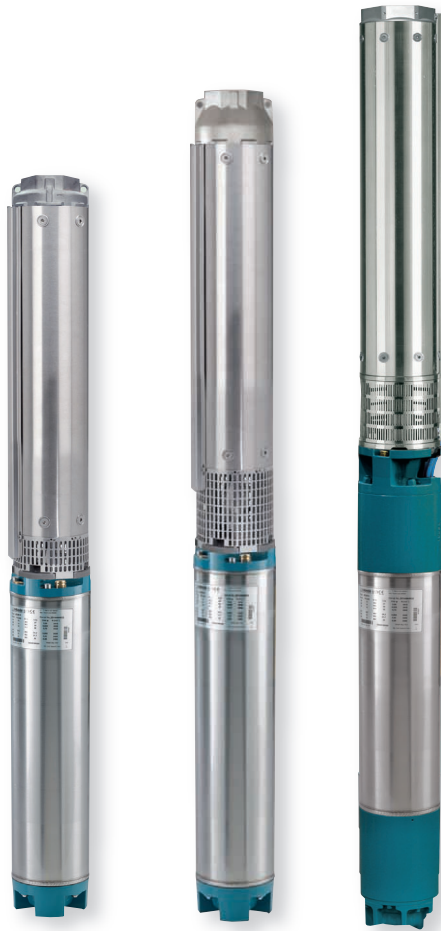
DN	f	
	mm	kg
G 3 ISO 228	538	18
	647	20,5
	756	23
	865	25
	974	27
	1083	29,5
	1192	32
	1301	34,5
	1410	36,2
1737	44,4	

P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to UNI EN ISO 9906:2012



Construction

Submersible borehole pumps for 6" wells (DN 150 mm) and 8" (DN 200 mm).

6,8SDX: with external jacket and stages in stainless steel AISI 304.

6,8SDXL: with external jacket and stages in stainless steel AISI 316.

Impellers

Radial impellers	Mixed flow impellers
6SDX(L) 18	6SDX(L) 30-46-65 8SDX(L) 78-97

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 60 °C (90 °C for SDXL).

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

Continuous duty.

Rewindable motor CS-R 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%.

In order to limit both current and torque at each starting, for rated motor powers equal to or higher than 7.5 kW, one of the following types of starting is necessary: star/delta, soft starter, stator impedance or autotransformer.

The electropumps 6SDX, 6SDXL series comply with the European Regulation no. 547/2012.

Materials

Components	6SDX	6SDXL	8SDX	8SDXL
External jacket	Cr-Ni steel	Cr-Ni-Mo steel	Cr-Ni steel	Cr-Ni-Mo steel
Suction lantern	AISI 304	AISI 316L	AISI 304	AISI 316
Upper cover	Cr-Ni-Mo steel AISI 316			
Delivery casing	Cr-Ni-Mo steel AISI 316L		Cr-Ni steel AISI 304	Cr-Ni-Mo steel AISI 316
Strainer	Cr-Ni-Mo steel		Cr-Ni-Mo steel	
Valve set	AISI 316		AISI 316	
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	Cr-Ni steel	Cr-Ni-Mo steel
Stage casing	AISI 304	AISI 316L	AISI 304	AISI 316
Impeller	Cr-Ni steel	Cr-Ni-Mo steel	Cr-Ni-Mo steel	
	AISI 304	AISI 316L	AISI 316	
Wear ring	Teflon (PTFE)			
Bearing bush	NBR	HNBR	NBR	HNBR
Cable guard	Cr-Ni-Mo steel			
Screws	AISI 316			

Operating conditions motor

Motor	Max. Liquid temperature	Cooling: minimum flow velocity	Max. starts per hour	Motor P2
4CS-R	35 °C	0,08 m/s	20	all types
6CS-R	30 °C	0,1 m/s	15	4÷11 kW
		0,2 m/s	15	13÷15 kW
	25 °C	0,2 m/s	15	18,5 kW
		0,2 m/s	13	22÷30 kW
8CS-R	25 °C	0,1 m/s	13	37 kW
		0,3 m/s	6	45 kW
		0,3 m/s	10	30÷45 kW
10CS	25 °C	0,50 m/s	8	51÷75 kW
			6	92 kW

Insulation class F for 4" motors, class E for 6-8" motors, PVC coated wire for 10" motors.

Motor suitable operation with frequency converter.

Protection IP 68.

Special features on request

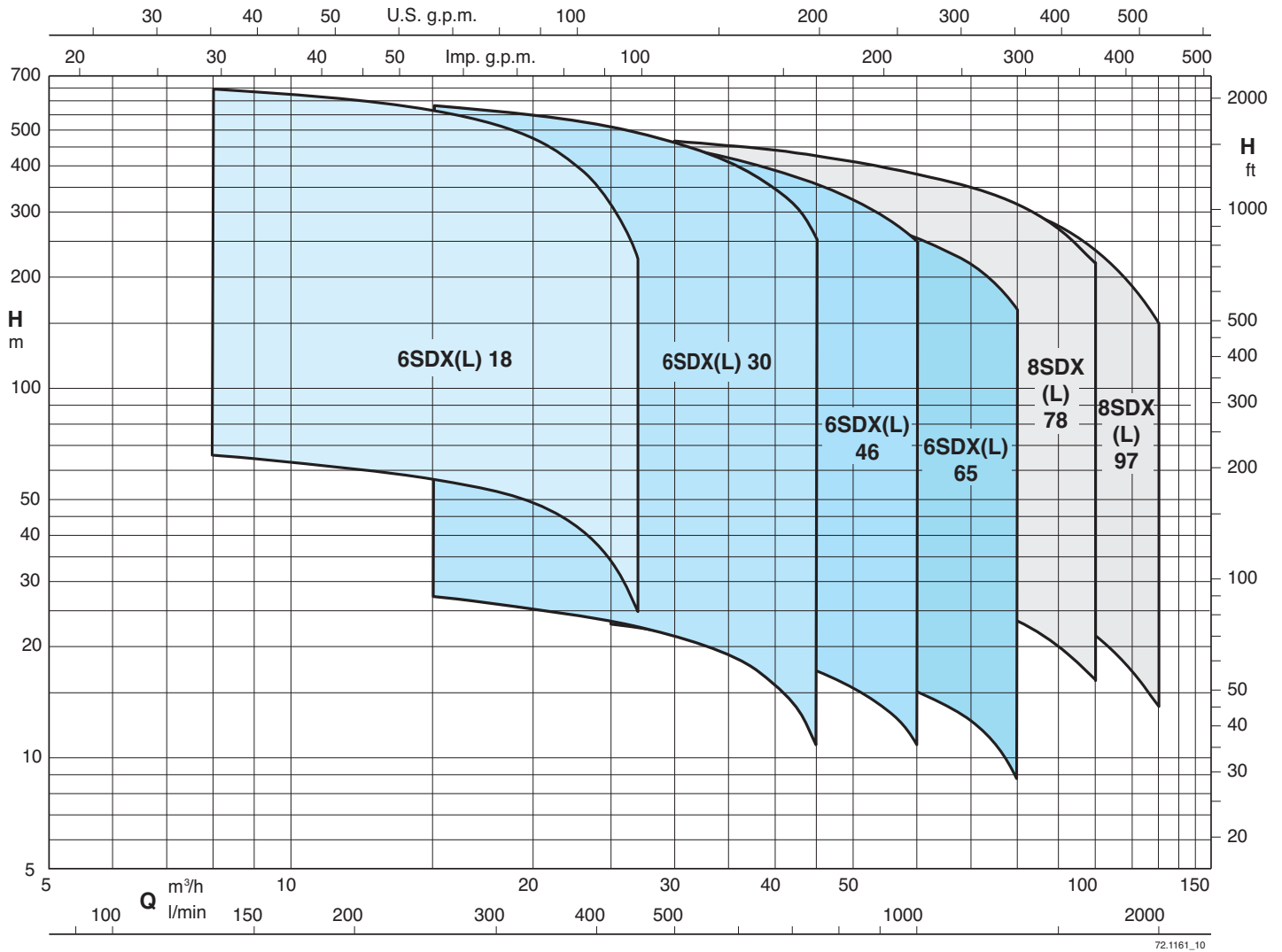
- Other voltages.
- 60 Hz frequency.
- Other temperatures.
- Encapsulated motor **FK series**.

Designation

Ø of the well in inches _____
 Series _____
 Cr-Ni-Mo steel AISI 316 construction _____
 Stage identification _____
 Number of stages _____

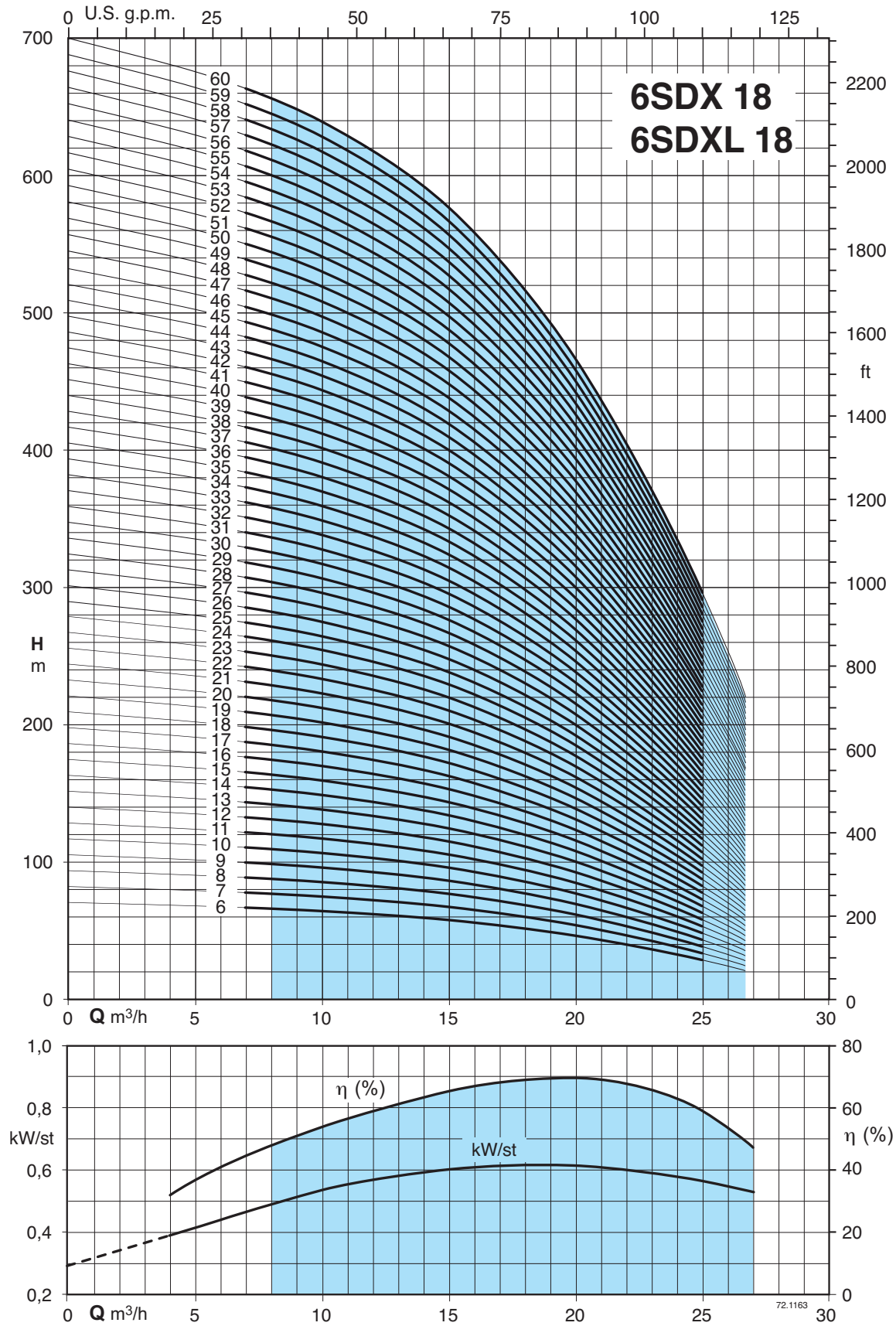
6 SDX L 30 / 17

Coverage chart $n \approx 2900$ rpm



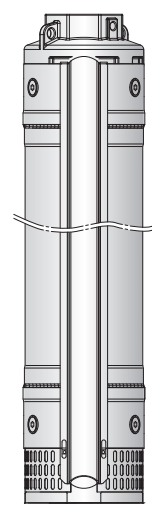
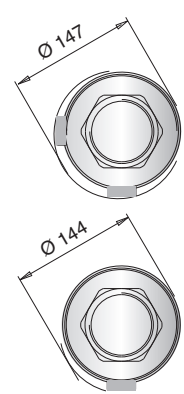
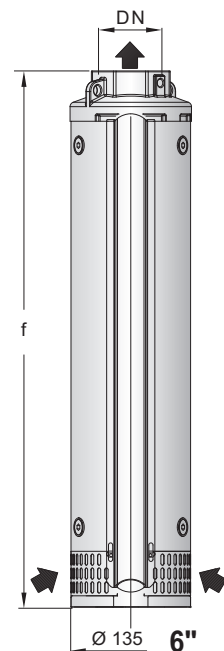
72.1161_10

Characteristic curves



Performance n ≈ 2900 rpm, dimensions and weights

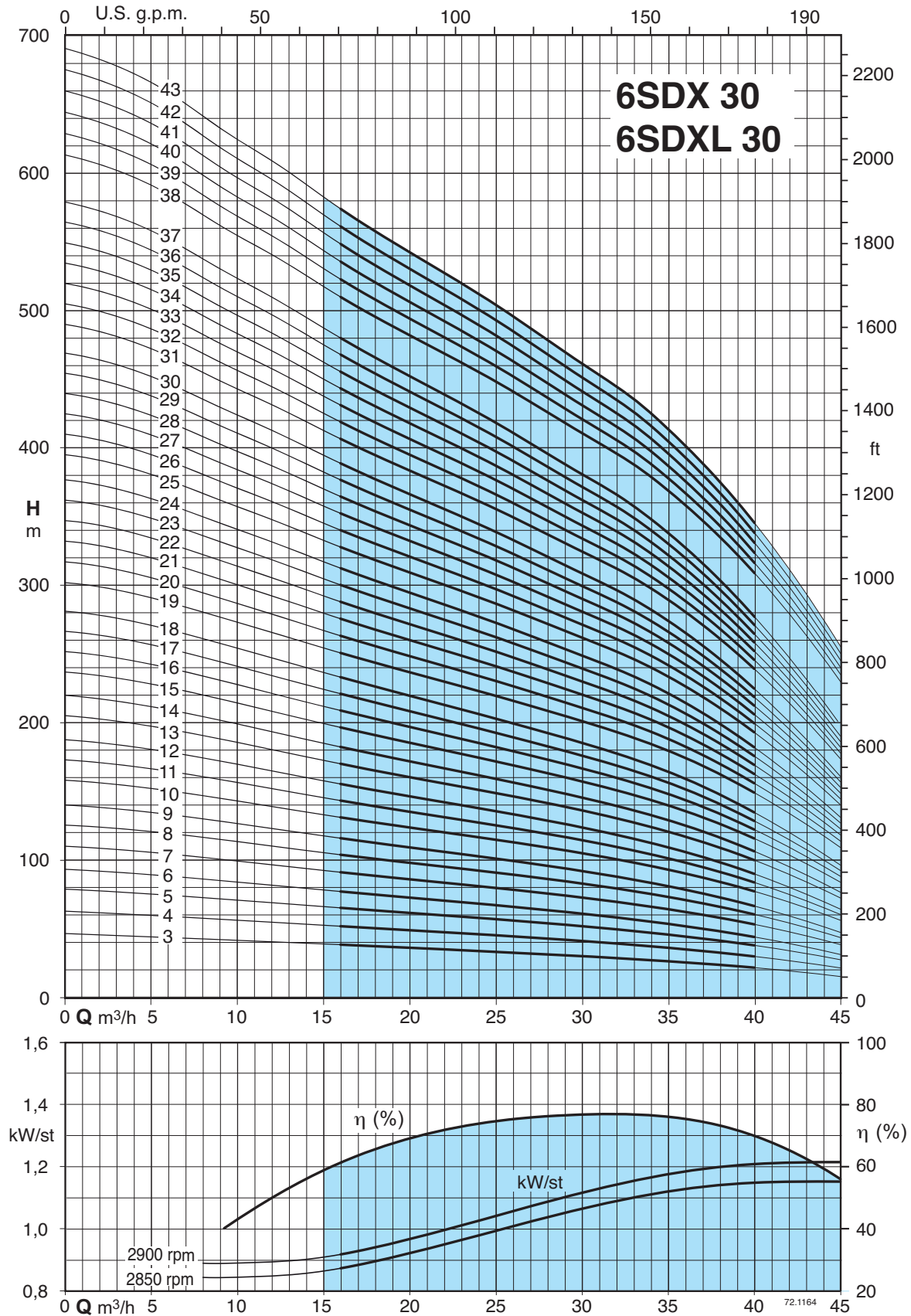
3 ~	P2		Q	n ≈ 2900 rpm									DN	Motore		f	kg
				m³/h	0	8	10	12	15	18	21	24		27	CS-R		
	l/min	0	133		167	200	250	300	350	400	450	mm		mm			
6SDX (L) 18/6	4	5,5	H m	70	66,4	64	62	57,6	51,6	43,2	32,9	20,5	Rp	145 6"	137 6"	494	12,5
6SDX (L) 18/7	5,5	7,5		81,7	77,5	74,7	72,3	67,2	60,2	50,4	38,4	23,9	2" 1/2			145	137
6SDX (L) 18/8	5,5	7,5	93,3	88,5	85,3	82,7	76,8	68,8	57,6	43,9	27,4				569	14,3	
6SDX (L) 18/9	5,5	7,5	105	99,6	96	93	86,4	77,4	64,8	49,4	30,8				607	15	
6SDX (L) 18/10	7,5	10	117	111	107	103	96	86	72,0	54,9	34,2				644	16	
6SDX (L) 18/11	7,5	10	128	122	117	114	106	94,6	79,2	60,4	37,6				682	17	
6SDX (L) 18/12	7,5	10	140	133	128	124	115	103	86,4	65,8	41,0				719	17,5	
6SDX (L) 18/13	9,2	12,5	152	144	139	134	125	112	93,6	71,3	44,5				757	18,5	
6SDX (L) 18/14	9,2	12,5	163	155	149	145	134	120	101	76,8	47,9				794	19,3	
6SDX (L) 18/15	9,2	12,5	175	166	160	155	144	129	108	82,3	51,3				832	20	
6SDX (L) 18/16	11	15	187	177	171	165	154	138	115	87,8	54,7				869	21	
6SDX (L) 18/17	11	15	198	188	181	176	163	146	122	93,3	58,1				907	22	
6SDX (L) 18/18	11	15	210	199	192	186	173	155	130	98,8	61,6				944	22,5	
6SDX (L) 18/19	13 (15)	17,5 (20)	222	210	203	196	182	163	137	104	65,0				982	23,5	
6SDX (L) 18/20	13 (15)	17,5 (20)	233	221	213	207	192	172	144	110	68,4				1019	24	
6SDX (L) 18/21	13 (15)	17,5 (20)	245	232	224	217	202	181	151	115	71,8				1057	25	
6SDX (L) 18/22	15	20	257	243	235	227	211	189	158	121	75,2				1094	26	
6SDX (L) 18/23	15	20	268	254	245	238	221	198	166	126	78,7				1132	26,5	
6SDX (L) 18/24	15	20	280	266	256	248	230	206	173	132	82,1				1169	27,5	
6SDX (L) 18/25	18,5	25	292	277	267	258	240	215	180	137	85,5				1207	28,3	
6SDX (L) 18/26	18,5	25	303	288	277	269	250	224	187	143	88,9				1244	29	
6SDX (L) 18/27	18,5	25	315	299	288	279	259	232	194	148	92,3				1282	31	
6SDX (L) 18/28	18,5	25	327	310	299	289	269	241	202	154	95,8				1319	31	
6SDX (L) 18/29	18,5	25	338	321	309	300	278	249	209	159	99,2				1356	31,5	
6SDX (L) 18/30	18,5	25	350	332	320	310	288	258	216	165	103				1394	32,5	
6SDX (L) 18/31	22	30	362	343	331	320	298	267	223	170	106				1431	33,3	
6SDX (L) 18/32	22	30	373	354	342	331	307	275	230	176	109				1469	34	
6SDX (L) 18/33	22	30	385	365	352	341	317	284	238	181	113				1506	35	
6SDX (L) 18/34	22	30	397	376	363	351	326	292	245	187	116				1544	35,7	
6SDX (L) 18/35	22	30	408	387	373	362	336	301	252	192	120				1581	36,3	
6SDX (L) 18/36	22	30	420	398	384	372	346	310	259	198	123				1619	37	
6SDX (L) 18/37	26 (30)	35 (40)	432	409	395	382	355	318	266	203	127				1656	38,4	
6SDX (L) 18/38	26 (30)	35 (40)	443	420	405	393	365	327	274	209	130				1694	39,8	
6SDX (L) 18/39	26 (30)	35 (40)	455	432	416	403	374	335	281	214	133				1731	40	
6SDX (L) 18/40	26 (30)	35 (40)	467	443	427	413	384	344	288	220	137				1769	40,5	
6SDX (L) 18/41	26 (30)	35 (40)	478	454	437	424	394	353	295	225	140				1806	41,8	
6SDX (L) 18/42	26 (30)	35 (40)	490	465	448	434	403	361	302	230	144				1844	43	
6SDX (L) 18/43	30	40	502	476	459	444	413	370	310	236	147				1881	44	
6SDX (L) 18/44	30	40	513	487	469	455	422	378	317	241	151				1919	45	
6SDX (L) 18/45	30	40	525	498	480	465	432	387	324	247	154				1956	46	
6SDX (L) 18/46	30	40	537	509	491	475	442	396	331	252	157				1993	47	
6SDX (L) 18/47	30	40	548	520	501	486	451	404	338	258	161				2031	47,5	
6SDX (L) 18/48	30	40	560	531	512	496	461	413	346	263	164				2068	48	
6SDX (L) 18/49	30	40	572	542	523	506	470	421	353	269	168				2106	50	
6SDX (L) 18/50	37	50	583	553	533	517	480	430	360	274	171				2143	51	
6SDX (L) 18/51	37	50	595	564	544	527	490	439	367	280	174				2181	52	
6SDX (L) 18/52	37	50	607	575	555	537	499	447	374	285	178				2218	53	
6SDX (L) 18/53	37	50	618	586	565	548	509	456	382	291	181				2256	54	
6SDX (L) 18/54	37	50	630	598	576	558	518	464	389	296	185				2293	55	
6SDX (L) 18/55	37	50	642	609	587	568	528	473	396	302	188				2331	56	
6SDX (L) 18/56	37	50	653	620	597	579	538	482	403	307	192				2368	57	
6SDX (L) 18/57	37	50	665	631	608	589	547	490	410	313	195				2406	58	
6SDX (L) 18/58	37	50	677	642	619	599	557	499	418	318	198				2443	59	
6SDX (L) 18/59	37	50	688	653	629	610	566	507	425	324	202				2481	60	
6SDX (L) 18/60	37	50	700	664	640	620	576	516	432	329	205				2518	61	



Reinforced with special collar from 6SDX(L) 18/47

6SDX 30

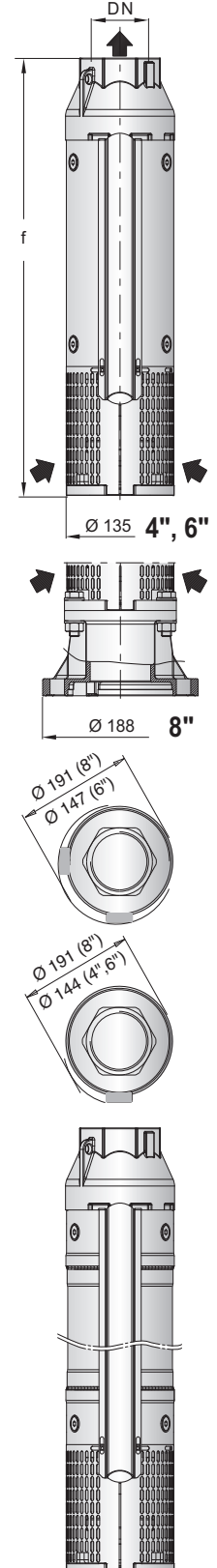
Characteristic curves



6SDX 30

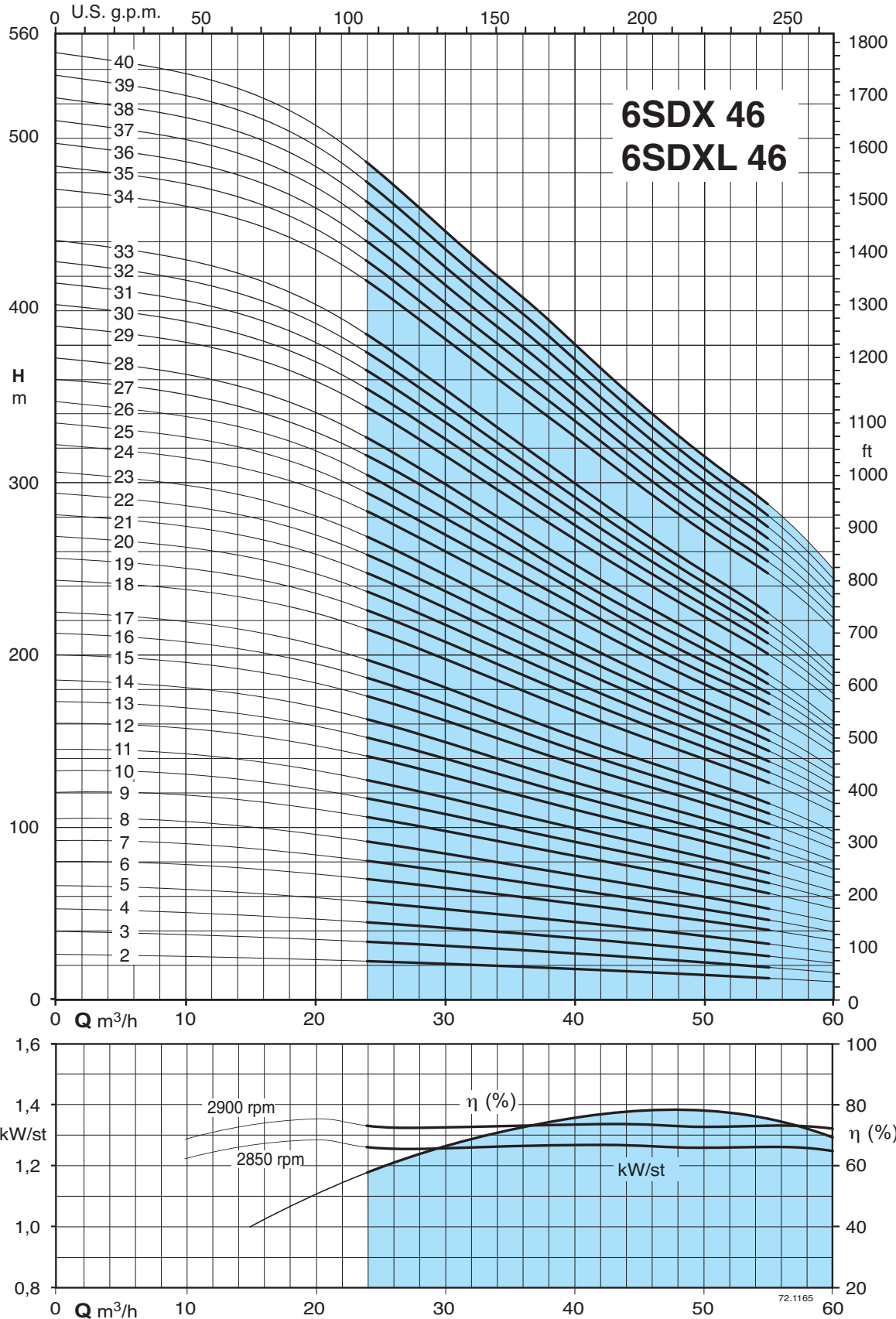
Performance $n \approx 2900$ rpm, dimensions and weights

3 ~	P ₂		Q	n ≈ 2900 rpm										DN	Motore		f	kg
															CS-R	FK		
	kW	HP	m ³ /h	0	15	20	25	30	35	40	45	-	mm		mm	mm		
6SDX (L) 30/3	4	5,5	H	46,3	38,9	36	33,3	30,2	26,7	21,7	15,3	-	145	137	620	14,7		
6SDX (L) 30/4	5,5	7,5	m	62,5	52,6	48,8	45,2	41,1	36,5	30	21,4		6"	6"	705	16,8		
6SDX (L) 30/5	7,5	10		78,6	66,2	61,5	56,9	51,8	46,1	38	27,4				790	18,9		
6SDX (L) 30/6	7,5	10		93,1	78,4	72,6	67,1	61	54	44,1	31,2				876	21		
6SDX (L) 30/7	9,2	12,5		110	92,6	86	79,7	72,6	64,6	53,3	38,4				961,5	23,1		
6SDX (L) 30/8	11	15		125	106	98,1	90,9	82,7	73,6	60,5	43,5				1047	25,4		
6SDX (L) 30/9	11	15		140	118	109	101	91,8	81,4	66,6	47,3				1132	27,3		
6SDX (L) 30/10	13 (15)	17,5 (20)		158	133	124	115	105	93,5	77,3	56,1				1218	29,4		
6SDX (L) 30/11	15	20		173	146	135	125	114	102	83,8	60,4				1303	31,5		
6SDX (L) 30/12	15	20		188	158	147	136	123	110	90	64,4				1389	33,6		
6SDX (L) 30/13	18,5	25		205	173	161	149	136	121	100	72,4				1474	35,7		
6SDX (L) 30/14	18,5	25		220	185	172	159	145	129	106	76,7				1560	37,8		
6SDX (L) 30/15	22	30		237	200	185	172	157	140	116	84				1645	39,9		
6SDX (L) 30/16	22	30		252	212	197	183	166	148	122	88,3				1730	42		
6SDX (L) 30/17	22	30		267	224	208	193	176	156	129	92,5				1816	44,1		
6SDX (L) 30/18	22	30		281	237	220	203	185	164	135	96,5				1901	46,1		
6SDX (L) 30/19	26 (30)	35 (40)		302	255	237	220	201	180	149	109				1987	48,2		
6SDX (L) 30/20	26 (30)	35 (40)		317	267	249	231	210	188	156	114				2072	50,3		
6SDX (L) 30/21	26 (30)	35 (40)		332	280	260	241	220	197	163	118				2157	52,4		
6SDX (L) 30/22	30	40		347	293	272	252	230	205	169	123				2243	54,5		
6SDX (L) 30/23	30	40		362	305	283	263	239	213	176	127				2328	56,6		
6SDX (L) 30/24	30	40		377	317	295	273	249	221	182	131				2414	58,7		
6SDX (L) 30/25	37	50		395	333	309	287	261	233	193	140				2499	60,8		
6SDX (L) 30/26	37	50		410	345	321	297	271	242	200	144				2584	62,9		
6SDX (L) 30/27	37	50		425	358	332	308	280	250	206	149				2670	65		
6SDX (L) 30/28	37	50		440	370	344	318	290	258	212	153				2755	67,2		
6SDX (L) 30/29	37	50		454	383	355	329	299	266	219	157				2840	69,2		
6SDX (L) 30/30	37	50		469	395	366	339	308	274	225	161				2926	71,3		
6SDX (L) 30/31	45	60		490	413	384	356	324	289	239	174				3011	75,2		
6SDX (L) 30/32	45	60		505	425	395	366	334	298	246	178				3096	78,3		
6SDX (L) 30/33	45	60		520	438	407	377	343	306	252	182				3182	80,4		
6SDX (L) 30/34	45	60		535	450	418	387	353	314	259	186				3267	82,5		
6SDX (L) 30/35	45	60		549	463	429	398	362	322	265	190				3352	84,6		
6SDX (L) 30/36	45	60		564	475	441	408	371	330	271	194				3438	87,9		
6SDX (L) 30/37	45	60		579	487	452	418	380	338	277	198				3523	90		
6SDX (L) 30/38	51 (55)	70 (75)		613	517	482	448	410	369	309	229				3709	92,3		
6SDX (L) 30/39	51 (55)	70 (75)		628	530	494	459	420	378	316	234				3794	94,5		
6SDX (L) 30/40	51 (55)	70 (75)		644	543	506	471	430	387	323	240				3879	96,6		
6SDX (L) 30/41	51 (55)	70 (75)		659	557	518	482	440	396	330	245				3965	97,6		
6SDX (L) 30/42	55	75		675	569	530	493	450	404	338	250				4050	98,7		
6SDX (L) 30/43	55	75		690	582	542	504	460	413	345	255				4135	99,8		



Reinforced with special collar from 6SDX(L) 30/36

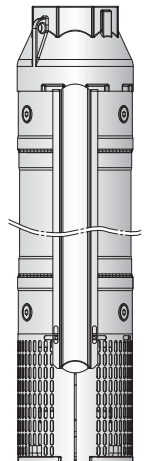
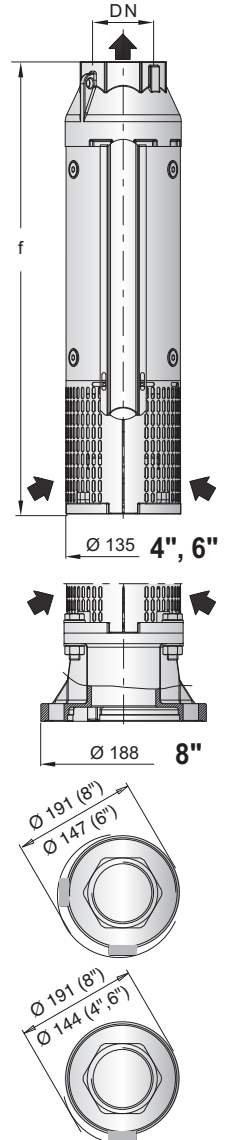
Characteristic curves



6SDX 46

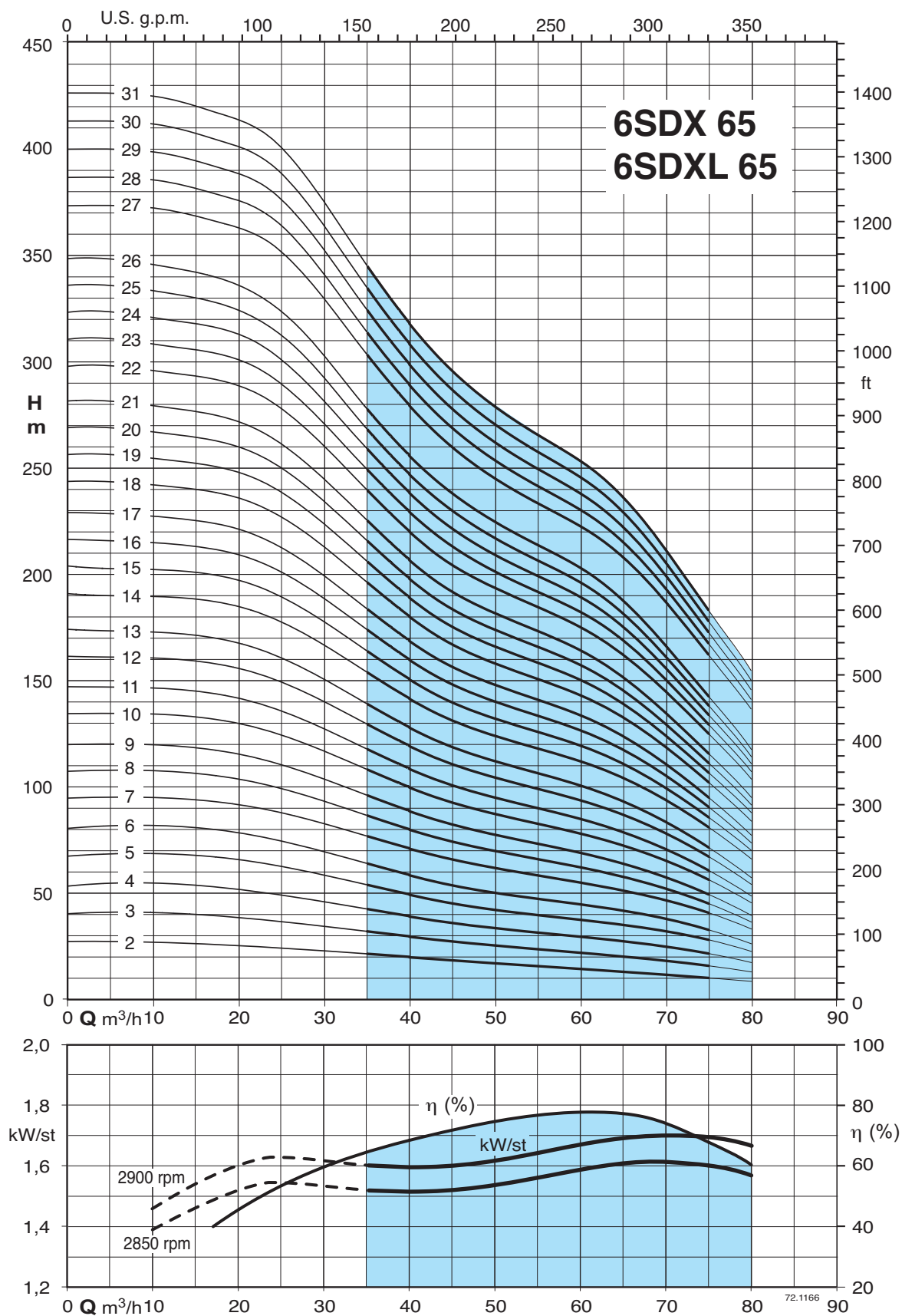
Performance n ≈ 2900 rpm, dimensions and weights

3 ~	P ₂		Q	n ≈ 2900 rpm												DN	Motore		f	kg
				H													CS-R	FK		
	kW	HP	m ³ /h	0	25	30	35	40	45	50	55	60	-	-	mm		mm	mm		
6SDX (L) 46/2	3	4		26,4	22,6	20,9	19,3	17,8	16,6	15,1	13,4	11,3	-	-	96 - 4"	96 - 4"	594	13,5		
6SDX (L) 46/3	4	5,5		39,4	33,8	31,2	28,8	26,6	24,7	22,5	19,9	16,8	-	-			705	16,2		
6SDX (L) 46/4	5,5	7,5		52,5	45	41,5	38,3	35,5	32,9	29,9	26,5	22,3	-	-			819	18,8		
6SDX (L) 46/5	7,5	10		66,1	56,8	52,3	48,3	44,7	41,5	37,8	33,6	28,4	-	-			933	21,4		
6SDX (L) 46/6	9,2	12,5		80,7	70	65,2	60,4	55,5	50,3	46	41,6	35,7	-	-			1047	24,0		
6SDX (L) 46/7	9,2	12,5		93,1	80,4	74,8	69,3	63,5	57,6	52,7	47,5	40,5	-	-			1161	26,6		
6SDX (L) 46/8	11	15		106	91,6	85,1	78,9	72,2	65,5	59,9	54	46	-	-			1275	29,2		
6SDX (L) 46/9	13 (15)	17,5 (20)		121	105	98,2	91	83,7	75,9	69,5	62,9	54,1	-	-			1389	31,8		
6SDX (L) 46/10	13 (15)	17,5 (20)		134	116	108	100	91,9	83,3	76,2	68,9	59	-	-			1503	34,4		
6SDX (L) 46/11	15	20		146	126	118	109	99,9	90,5	82,8	74,7	63,7	-	-			1617	37,0		
6SDX (L) 46/12	18,5	25		161	140	130	120	111	101	92	83,3	71,4	-	-			1730	39,6		
6SDX (L) 46/13	18,5	25		174	150	140	130	119	108	98,7	89,2	76,3	-	-			1844	42,2		
6SDX (L) 46/14	18,5	25		186	161	149	139	127	115	105	95	81	-	-			1958	44,8		
6SDX (L) 46/15	22	30		201	174	162	150	138	125	114	103	88,4	-	-			2072	47,4		
6SDX (L) 46/16	22	30		213	184	171	159	146	132	121	109	93,2	-	-			2186	50,1		
6SDX (L) 46/17	22	30		225	195	181	168	154	139	127	115	97,8	-	-			2300	52,7		
6SDX (L) 46/18	26 (30)	35 (40)		244	212	198	183	169	153	140	127	109	-	-			2414	55,3		
6SDX (L) 46/19	26 (30)	35 (40)		257	223	208	192	177	160	147	133	114	-	-			2527	57,9		
6SDX (L) 46/20	30	40		269	234	218	208	185	168	154	139	119	-	-			2641	60,5		
6SDX (L) 46/21	30	40		282	244	227	211	193	175	160	145	124	-	-			2755	63,1		
6SDX (L) 46/22	30	40		294	255	237	220	202	183	167	151	129	-	-			2869	65,7		
6SDX (L) 46/23	30	40		307	265	247	229	209	190	174	157	134	-	-			2983	68,3		
6SDX (L) 46/24	37	50		322	280	260	241	222	201	184	166	143	-	-			3096	70,9		
6SDX (L) 46/25	37	50		335	290	270	250	230	208	191	172	147	-	-			3210	73,5		
6SDX (L) 46/26	37	50		347	301	280	259	238	216	197	178	152	-	-			3324	76,1		
6SDX (L) 46/27	37	50		360	311	289	268	246	223	204	184	157	-	-			3438	79,3		
6SDX (L) 46/28	37	50		372	321	299	277	254	230	210	190	162	-	-			3552	82,0		
6SDX (L) 46/29	45	60		390	339	315	292	268	243	223	201	173	-	-			3665	87,4		
6SDX (L) 46/30	45	60		403	349	325	301	276	251	229	207	178	-	-			3779	90,0		
6SDX (L) 46/31	45	60		415	360	334	310	284	258	236	213	183	-	-			3893	92,6		
6SDX (L) 46/32	45	60		427	370	344	319	292	265	243	219	187	-	-			4007	95,2		
6SDX (L) 46/33	45	60		440	380	353	328	300	272	249	225	192	-	-			4121	97,8		
6SDX (L) 46/34	51 (55)	70 (75)		469	411	383	355	328	298	272	248	216	-	-			4335	101		
6SDX (L) 46/35	51 (55)	70 (75)		482	422	394	365	337	306	279	255	221	-	-			4449	103		
6SDX (L) 46/36	51 (55)	70 (75)		496	434	404	374	346	314	287	261	227	-	-			4562	106		
6SDX (L) 46/37	51 (55)	70 (75)		509	445	415	384	355	322	294	268	233	-	-			4676	109		
6SDX (L) 46/38	55	75		522	456	425	394	364	330	302	275	238	-	-			4790	111		
6SDX (L) 46/39	55	75		535	467	436	403	372	338	309	281	244	-	-			4904	114		
6SDX (L) 46/40	55	75		548	479	446	413	381	346	316	288	249	-	-			5018	117		



Reinforced with special collar from 6SDX(L) 46/27

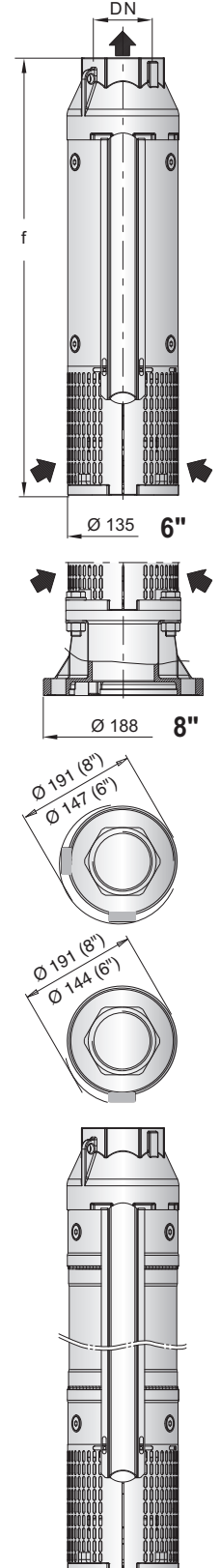
Characteristic curves



6SDX 65

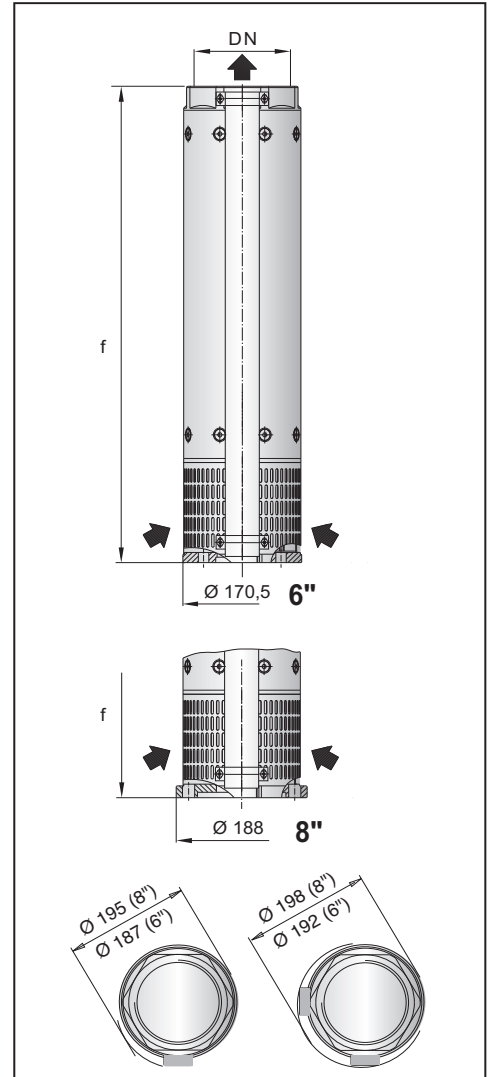
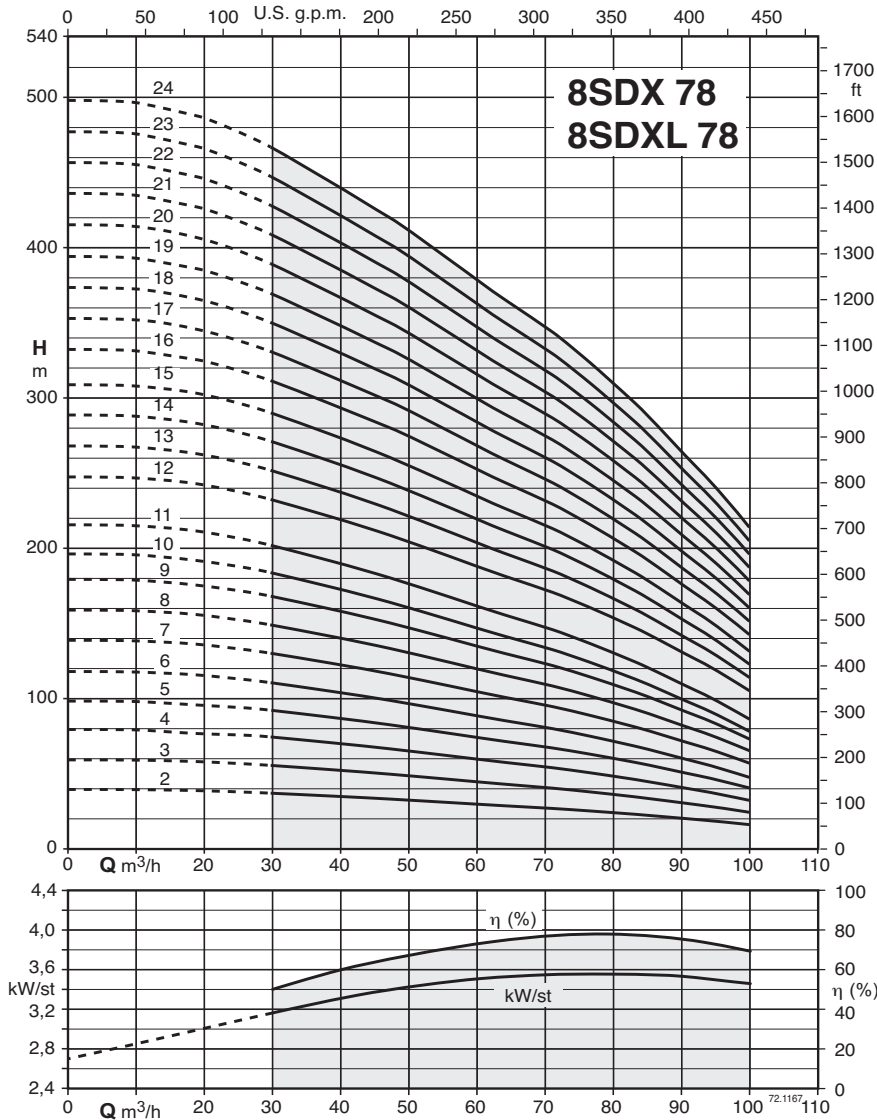
Performance $n \approx 2900$ rpm, dimensions and weights

3 ~	P ₂		Q	n ≈ 2900 rpm											DN	Motore		f	kg
				m ³ /h												CS-R	FK		
	kW	HP	l/min	0	35	40	45	50	55	60	65	70	75	80		mm	mm		
6SDX (L) 65/2	4	5,5		26,8	21,1	19	17,3	16,5	15,7	14,9	13,9	12,4	10,5	8,2			592	13,6	
6SDX (L) 65/3	5,5	7,5		40,4	31,8	28,8	26,2	24,9	23,7	22,5	21	18,9	16	12,6			705	16,2	
6SDX (L) 65/4	7,5	10		54	42,5	38,4	35	33,2	31,6	30,1	28	25,2	21,4	16,9			819	18,8	
6SDX (L) 65/5	9,2	12,5		68	53,8	48,7	44,3	41,9	40,1	38,2	35,6	32,2	27,5	22			933	21,4	
6SDX (L) 65/6	11	15		81,2	64	57,9	52,7	50	47,7	45,3	42,3	38,1	32,3	25,7			1047	24,0	
6SDX (L) 65/7	13 (15)	17,5 (20)		94,9	76,2	70,1	65,2	61,7	58,6	55,7	52,1	46,1	39,7	33,4			1161	26,7	
6SDX (L) 65/8	15	20		108	86	79,1	73,5	69,7	66,1	62,8	58,5	51,6	44,3	37			1275	29,3	
6SDX (L) 65/9	15	20		120	95,5	87,8	81,5	77,4	73,4	69,6	64,6	56,8	48,6	40,2			1389	31,9	
6SDX (L) 65/10	18,5	25		134	108	99	91,9	87,2	82,7	78,5	73,2	64,6	55,5	46,3			1503	34,5	
6SDX (L) 65/11	18,5	25		147	117	108	100	95	90	85,4	79,4	69,8	59,9	49,6			1617	37,1	
6SDX (L) 65/12	22	30		161	129	118	110	104	99,1	94,1	87,6	77,3	66,3	55,3			1730	39,7	
6SDX (L) 65/13	22	30		174	138	127	118	112	106	101	93,8	82,5	70,8	58,6			1844	42,4	
6SDX (L) 65/14	26 (30)	35 (40)		190	153	141	131	124	118	112	105	93	80,2	67,7			1958	44,9	
6SDX (L) 65/15	26 (30)	35 (40)		203	163	150	140	132	126	119	111	98,7	85	71,5			2072	47,5	
6SDX (L) 65/16	30	40		216	173	159	148	140	133	126	118	104	89,7	75,2			2186	50,2	
6SDX (L) 65/17	30	40		229	183	168	156	148	141	133	124	110	94,3	78,8			2300	52,8	
6SDX (L) 65/18	37	50		243	195	180	167	158	150	143	133	118	101	85,2			2414	55,4	
6SDX (L) 65/19	37	50		256	205	189	175	166	158	150	140	123	106	88,9			2527	58,0	
6SDX (L) 65/20	37	50		269	215	198	184	174	165	157	146	129	111	92,4			2641	60,7	
6SDX (L) 65/21	37	50		281	225	206	192	182	173	164	152	134	115	95,7			2755	63,3	
6SDX (L) 65/22	45	60		298	239	220	204	194	184	175	163	144	124	104			2869	68,7	
6SDX (L) 65/23	45	60		310	249	229	213	202	191	182	170	150	129	108			2983	71,3	
6SDX (L) 65/24	45	60		323	259	238	221	209	199	189	176	155	133	111			3096	73,9	
6SDX (L) 65/25	45	60		336	268	247	229	217	206	196	182	161	138	115			3210	76,5	
6SDX (L) 65/26	45	60		348	278	255	237	225	213	202	188	166	142	118			3324	79,1	
6SDX (L) 65/27	51 (55)	70 (75)		373	303	279	259	245	233	222	208	186	162	137			3538	82,6	
6SDX (L) 65/28	51 (55)	70 (75)		386	313	288	268	253	241	229	216	193	167	142			3652	85,3	
6SDX (L) 65/29	51 (55)	70 (75)		399	324	298	277	262	249	237	223	199	172	146			3765	87,9	
6SDX (L) 65/30	55	75		413	334	308	286	270	258	245	230	205	177	151			3879	90,5	
6SDX (L) 65/31	55	75		426	345	317	295	279	265	252	237	211	183	155			3993	93,2	



Reinforced with special collar from 6SDX(L) 65/27

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



3 ~	P ₂		Q	n ≈ 2900 rpm										DN	Motor		f	8SDXL		
	kW	HP													CS-R	FK			mm	kg
				0	30	40	50	60	70	80	90	100	mm							
8SDX 78/2 - 8SDXL 78/2	7,5	10	m³/h	0	30	40	50	60	70	80	90	100								
8SDX 78/3 - 8SDXL 78/3	11	15	l/min	0	500	666	833	1000	1166	1333	1500	1666								
8SDX 78/4 - 8SDXL 78/4	15	20	H m	39,9	37,1	34,9	32,6	29,7	27,1	24,3	20,4	16,3								
8SDX 78/5 - 8SDXL 78/5	18,5	25		59,8	55,7	52,3	48,9	44,6	40,7	36,4	30,6	24,4								
8SDX 78/6 - 8SDXL 78/6	22	30		79,7	74,3	69,7	65,1	59,4	54,3	48,6	40,9	32,6								
8SDX 78/7 - 8SDXL 78/7	26 (30)	35 (40)		99,6	92,9	87,1	81,4	74,3	67,9	60,7	51,1	40,7								
8SDX 78/8 - 8SDXL 78/8	30	40		120	111	105	97,7	89,1	81,4	72,9	61,3	48,9								
8SDX 78/9 - 8SDXL 78/9	37	50		140	130	122	114	104	95	85	71,5	57								
8SDX 78/10 - 8SDXL 78/10	37	50		156	146	138	128	117	107	94,5	80	63,3								
8SDX 78/11 - 8SDXL 78/11	45	60		176	164	155	144	132	120	106	90	71,2								
8SDX 78/12 - 8SDXL 78/12	45	60		195	183	173	160	147	134	118	100	79,1								
8SDX 78/13 - 8SDXL 78/13	51 (55)	70 (75)		215	201	190	176	162	147	130	110	87								
8SDX 78/14 - 8SDXL 78/14	51 (55)	70 (75)		248	232	218	203	187	171	154	130	105								
8SDX 78/15 - 8SDXL 78/15	55	75		268	251	237	220	203	185	166	141	114								
8SDX 78/16 - 8SDXL 78/16	59 (75)	80 (100)		289	271	255	237	218	200	179	152	122								
8SDX 78/17 - 8SDXL 78/17	66 (75)	90 (100)		310	290	273	254	234	214	192	163	131								
8SDX 78/18 - 8SDXL 78/18	66 (75)	90 (100)		332	312	293	274	252	232	206	176	143								
8SDX 78/19 - 8SDXL 78/19	75	100		353	332	311	292	268	247	219	187	152								
8SDX 78/20 - 8SDXL 78/20	75	100		374	351	329	309	284	261	232	198	161								
8SDX 78/21 - 8SDXL 78/21	75	100		394	371	348	326	299	276	245	209	170								
8SDX 78/22 - 8SDXL 78/22	92	125		415	390	366	343	315	290	258	220	179								
8SDX 78/23 - 8SDXL 78/23	92	125		436	409	385	361	331	304	271	231	187								
8SDX 78/24 - 8SDXL 78/24	92	125		457	428	403	378	347	318	284	242	196								
				478	448	422	395	363	333	297	253	205								
				499	467	440	412	379	347	310	264	214								

P₂ Rated motor power output

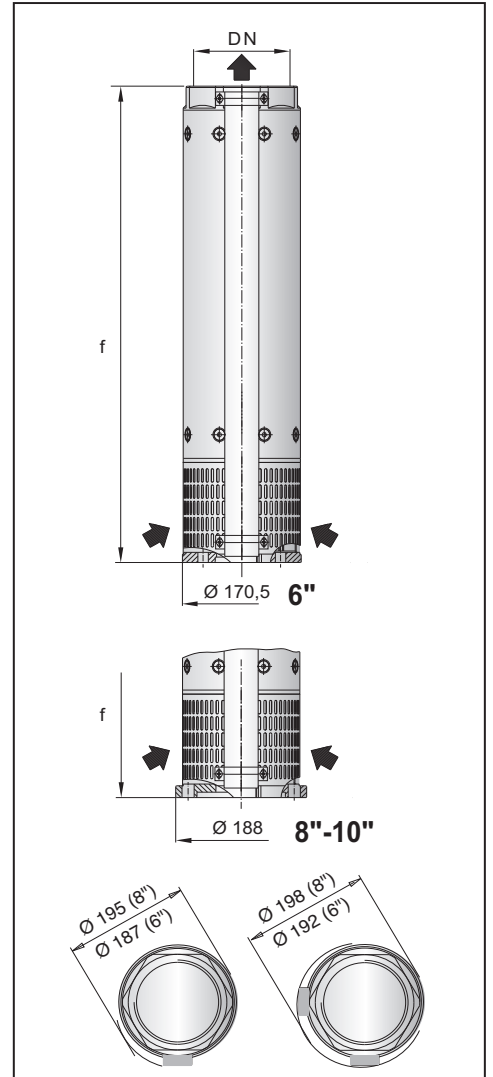
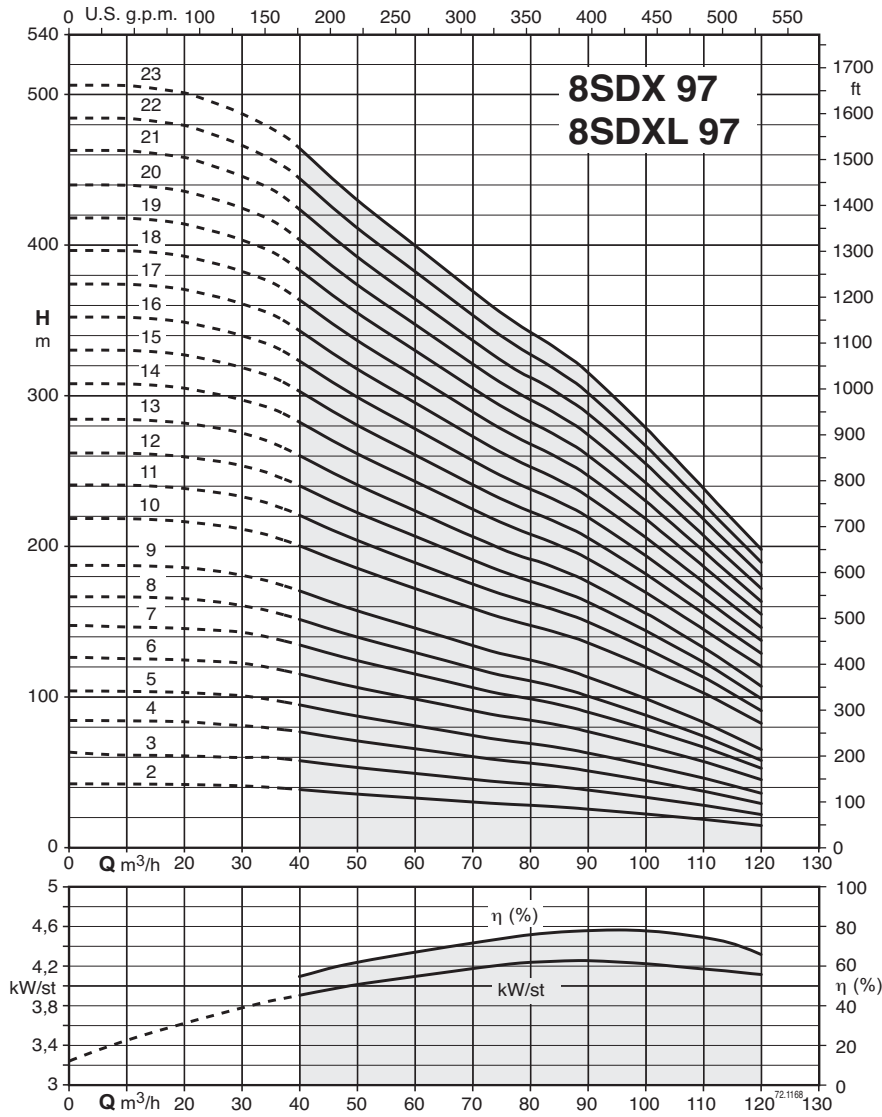
(...) FK motor rated power output

H Total head in m

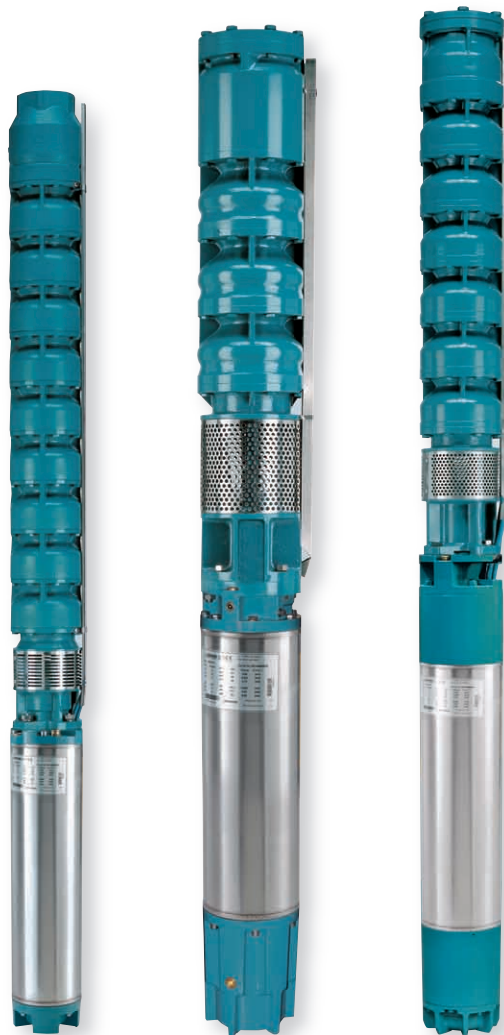
Tolerances according to UNI EN ISO 9906:2012

8SDX 97

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



3 ~	P ₂		Q	n ≈ 2900 rpm											DN	Motor		f	8SDXL		
	kW	HP		H												CS-R	FK			mm	kg
				m																	
			m³/h	0	40	50	60	70	80	90	100	110	120								
			l/min	0	666	833	1000	1166	1333	1500	1666	1833	2000								
8SDX 97/2 - 8SDXL 97/2	9,2	12,5		41,2	38,6	35,2	32,2	29,8	27,8	24,8	21,8	18,6	14,8	Rp 5"	145 6"	137 6"	644	31,5			
8SDX 97/3 - 8SDXL 97/3	13 (15)	17,5 (20)		61,8	57,9	52,8	48,3	44,7	41,7	37,2	32,7	27,9	22,2				770	36,5			
8SDX 97/4 - 8SDXL 97/4	18,5	25		82,4	77,2	70,4	64,4	59,6	55,6	49,6	43,6	37,2	29,6				896	41,5			
8SDX 97/5 - 8SDXL 97/5	22	30		103	96,5	88	80,5	74,5	69,5	62	54,5	46,5	37				1022	46			
8SDX 97/6 - 8SDXL 97/6	26 (30)	35 (40)		125	113	105	96,7	89	82,7	75	66,3	55	44				1148	51			
8SDX 97/7 - 8SDXL 97/7	30	40		146	132	123	113	104	96,4	87,5	77,4	64,2	51,3				1274	56			
8SDX 97/8 - 8SDXL 97/8	37	50		167	151	140	129	119	110	100	88,4	73,3	58,7				1400	61			
8SDX 97/9 - 8SDXL 97/9	37	50		188	170	158	145	134	124	113	99,5	82,5	66				1526	66			
8SDX 97/10 - 8SDXL 97/10	45	60		219	200	185	172	158	147	135	119	102	83,1				1657	72			
8SDX 97/11 - 8SDXL 97/11	51 (55)	70 (75)		241	220	204	189	174	162	149	131	112	91,4				1783	77			
8SDX 97/12 - 8SDXL 97/12	51 (55)	70 (75)		263	240	222	206	190	176	162	143	122	99,7				1909	82			
8SDX 97/13 - 8SDXL 97/13	55	75		285	260	241	223	206	191	176	155	132	108		2035	87					
8SDX 97/14 - 8SDXL 97/14	59 (75)	80 (100)		309	281	262	242	224	208	191	169	144	120		2161	92					
8SDX 97/15 - 8SDXL 97/15	66 (75)	90 (100)		331	302	279	261	240	222	205	182	156	129		2287	97					
8SDX 97/16 - 8SDXL 97/16	75	100		353	322	298	278	256	237	219	194	166	138		2413	102					
8SDX 97/17 - 8SDXL 97/17	75	100		375	342	317	295	272	251	233	206	176	147		2539	106,5					
8SDX 97/18 - 8SDXL 97/18	92	125		397	362	335	313	288	266	246	218	187	155		2665	111,5					
8SDX 97/19 - 8SDXL 97/19	92	125		419	382	354	330	304	281	260	230	197	164		2791	116,5					
8SDX 97/20 - 8SDXL 97/20	92	125		440	403	374	348	322	298	274	244	209	173		2917	121					
8SDX 97/21 - 8SDXL 97/21	92	125		462	424	393	365	338	313	288	257	219	182		3043	126					
8SDX 97/22 - 8SDXL 97/22	110	150		484	444	411	383	354	328	301	269	230	190		3169	131					
8SDX 97/23 - 8SDXL 97/23	110	150		507	464	430	400	370	343	315	281	240	199		3295	136					



Construction

Submersible borehole pumps for 6" wells (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: 150 g/m³ (300 g/m³ high percentage of solids and sand).
Continuous duty.

Rewindable motor CS, CS-R 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%.

In order to limit both current and torque at each starting, for rated motor powers equal to or higher than 7.5kW, one of the following types of starting is necessary: star/delta, soft starter, stator impedance or autotransformer.

Operating conditions motor

Motor	Max. Liquid temperature	Cooling: minimum flow velocity	Max. starts per hour	Motor P2
6CS-R	30 °C	0,1 m/s	15	4÷11 kW
		0,2 m/s	15	13÷15 kW
	25 °C	0,2 m/s	15	18,5 kW
		0,2 m/s	13	22÷30 kW
	40 °C	0,1 m/s	13	37 kW
		0,3 m/s	6	45 kW
8CS-R	25 °C	0,3 m/s	10	30÷45 kW
			8	51÷75 kW
			6	92 kW
10CS	25 °C	0,50 m/s	10	all types

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

Motor suitable operation with frequency converter.
Protection IP 68.

Special features on request

- Other voltages.
- 60 Hz frequency.
- Other temperatures.
- Encapsulated motor **FK series**.

Designation

B 10 SDS 190 / 6

Bronze construction (on request)

Ø of the well in inches _____

Series _____

Stage identification _____

Number of stages _____

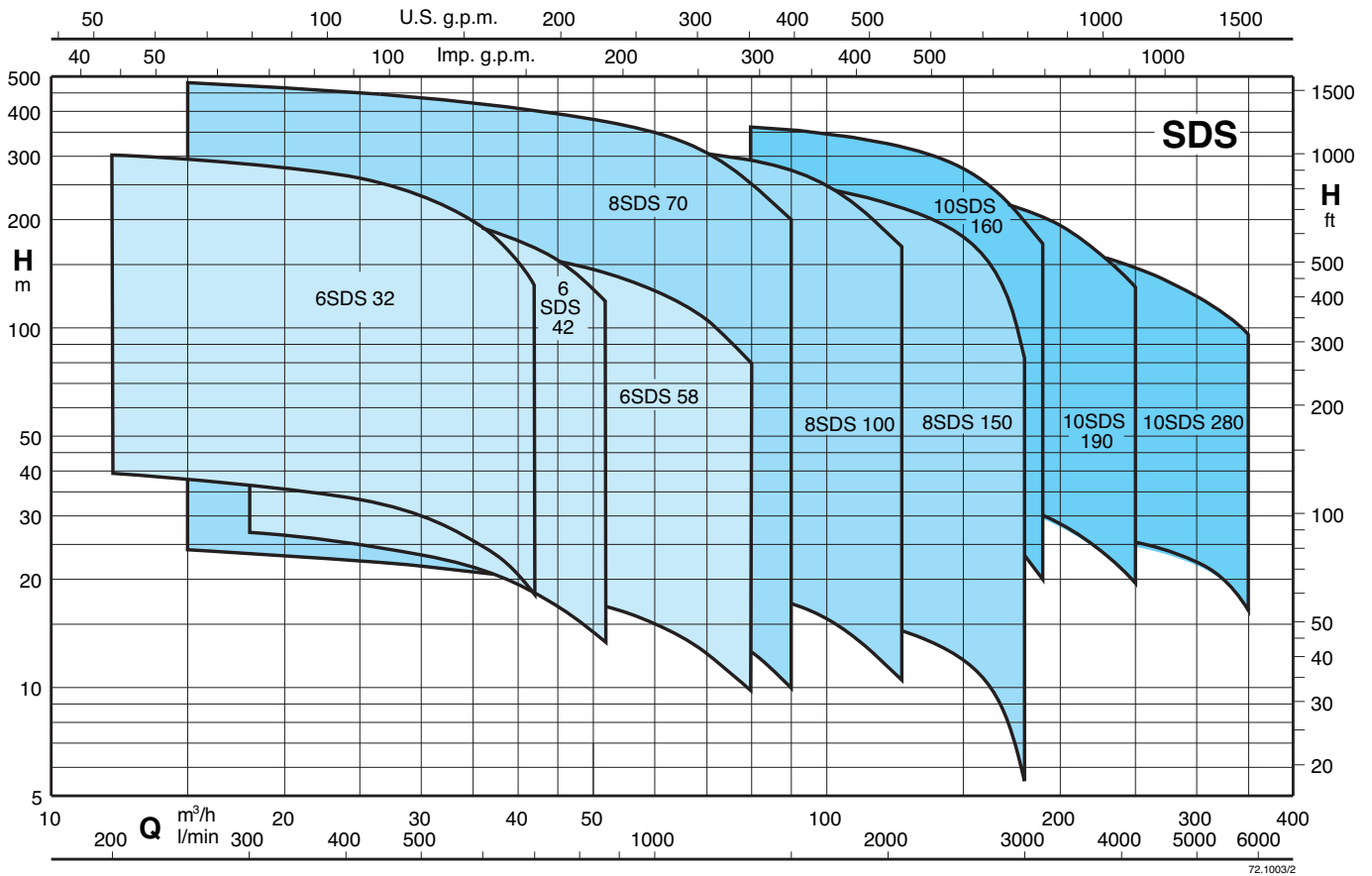
Materials

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	Steel AISI F51duplex	
Shaft sleeve	64.08	Brass with chromate surface treatment (only for 10SDS)	
Delivery casing	12.01	Cast iron GJL 200 EN 1561	Bronze G-Cu Sn 10 EN 1982
Suction lantern	32.02		
Bearing bush	12.03-12.30	Rubber	
Strainer	15.50	Cr-Ni steel	AISI 304
Screws		Cr-Ni steel AISI 304	

CS, CS-R Motor

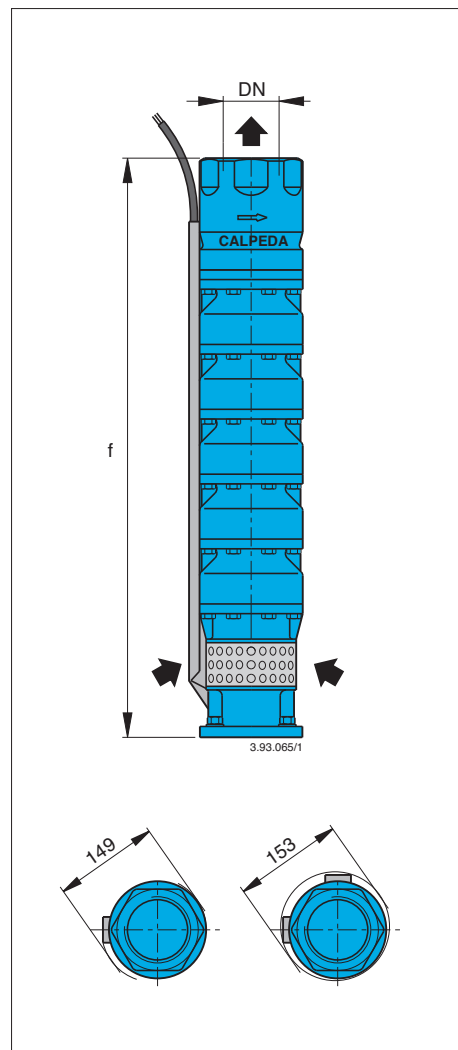
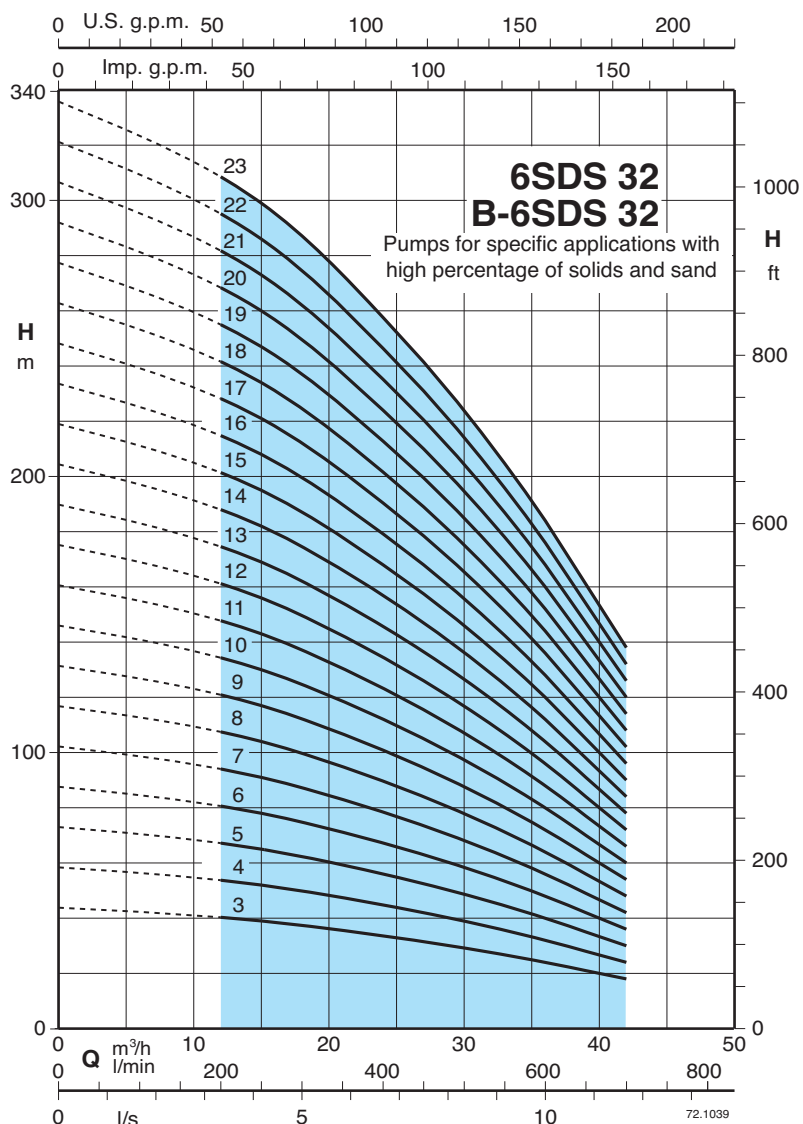
Components	CS-R 6", 8", CS 10" standard	I-CS-R 6", 8", I-CS 10" AISI 316
External frame	AISI 304 (AISI 316Ti for 10")	Cr-Ni-Mo steel AISI 316 Ti
Motor flange	Cast iron GJL 200 EN 1561	Cr-Ni-Mo steel AISI 316
Shaft end	Steel AISI 431 (AISI 329 for 10")	AISI 316 (AISI 630 from 30 to 93kW) (AISI 429 for 10")
Thrust bearing	Oscillating pads	Oscillating pads
Bushings	Graphite (Bronze for 8" motor)	Graphite (Bronze for 8" motor)

Coverage chart $n \approx 2900$ rpm



72.1003/2

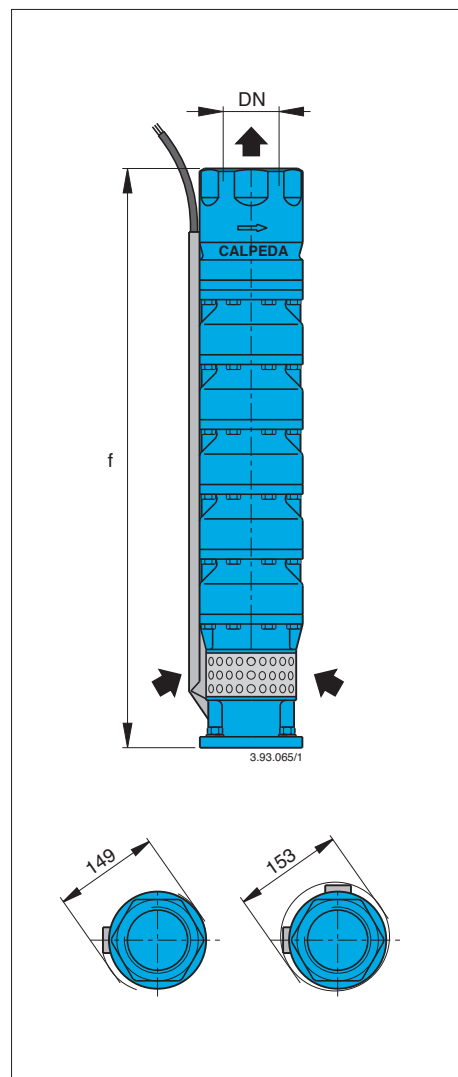
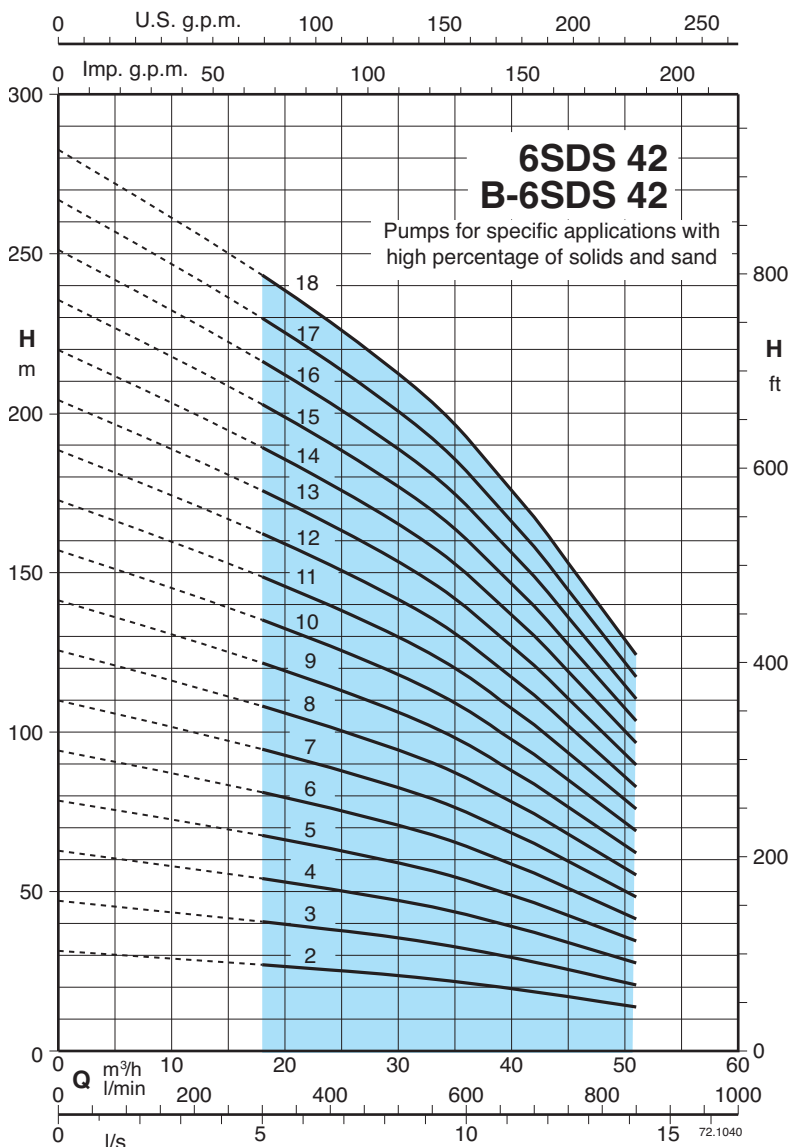
Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3 ~	P ₂		Q	n ≈ 2900 rpm											
	kW	HP		H											
				m											
			m ³ /h	12	18	21	24	27	30	33	36	39	42		
			l/min	200	300	350	400	450	500	550	600	650	700		
6SDS 32/3 - B-6SDS 32/3	4	5,5		39	37	35,5	33,5	31,5	30	26,5	24	21	18		
6SDS 32/4 - B-6SDS 32/4	5,5	7,5		52	49	47	45	42	39,5	35,5	32	28	24		
6SDS 32/5 - B-6SDS 32/5	7,5	10		65	61,5	59	56	52,5	49,5	44,5	40	35	30		
6SDS 32/6 - B-6SDS 32/6	7,5	10		78	74	71	67	63	59,5	53,5	48	42	36		
6SDS 32/7 - B-6SDS 32/7	9,2	12,5		92	86	82,5	78,5	73,5	69	62	56	49	42		
6SDS 32/8 - B-6SDS 32/8	11	15		105	98,5	94,5	89,5	84	79	71	64	56	48		
6SDS 32/9 - B-6SDS 32/9	13 (15)	17,5 (20)		118	111	106	101	94,5	89	80	72	63	54		
6SDS 32/10 - B-6SDS 32/10	13 (15)	17,5 (20)		131	123	118	112	105	99	89	80	70	60		
6SDS 32/11 - B-6SDS 32/11	15	20		144	135	130	123	115	109	98	88	77	66		
6SDS 32/12 - B-6SDS 32/12	15	20		157	147	141	134	126	119	107	96	84	72		
6SDS 32/13 - B-6SDS 32/13	18,5	25		170	160	153	145	136	129	116	104	91	78		
6SDS 32/14 - B-6SDS 32/14	18,5	25		183	172	165	157	147	138	124	112	98	84		
6SDS 32/15 - B-6SDS 32/15	22	30		196	184	177	168	157	148	133	120	105	90		
6SDS 32/16 - B-6SDS 32/16	22	30		209	197	189	179	168	158	142	128	112	96		
6SDS 32/17 - B-6SDS 32/17	22	30		223	209	200	190	178	168	151	136	119	102		
6SDS 32/18 - B-6SDS 32/18	26 (30)	35 (40)		236	221	212	201	189	178	160	144	126	108		
6SDS 32/19 - B-6SDS 32/19	26 (30)	35 (40)		246	234	224	213	199	188	169	152	133	114		
6SDS 32/20 - B-6SDS 32/20	26 (30)	35 (40)		262	246	236	224	210	198	178	160	140	120		
6SDS 32/21 - B-6SDS 32/21	26 (30)	35 (40)		275	258	248	235	220	208	187	168	147	126		
6SDS 32/22 - B-6SDS 32/22	30	40		288	270	259	246	231	218	196	176	154	132		
6SDS 32/23 - B-6SDS 32/23	30	40		301	283	271	257	241	228	205	184	161	138		

DN	f	6SDS	B-6SDS
	mm	kg	kg
G 3 ISO 228	686	30,5	35,5
	788	35,6	41,6
	890	41	49
	992	46	55
	1094	52,3	62,3
	1196	57	68
	1298	62,5	74,5
	1400	68,5	81,5
	1502	72,5	86,5
	1604	77,5	93,5
	1706	84	101
	1808	89	108
	1910	94,2	112
	2012	100	119
	2114	105	125
	2216	111	132
2318	116	139	
2420	122	145	
2522	127	151	
2624	132	157	
2726	137	164	

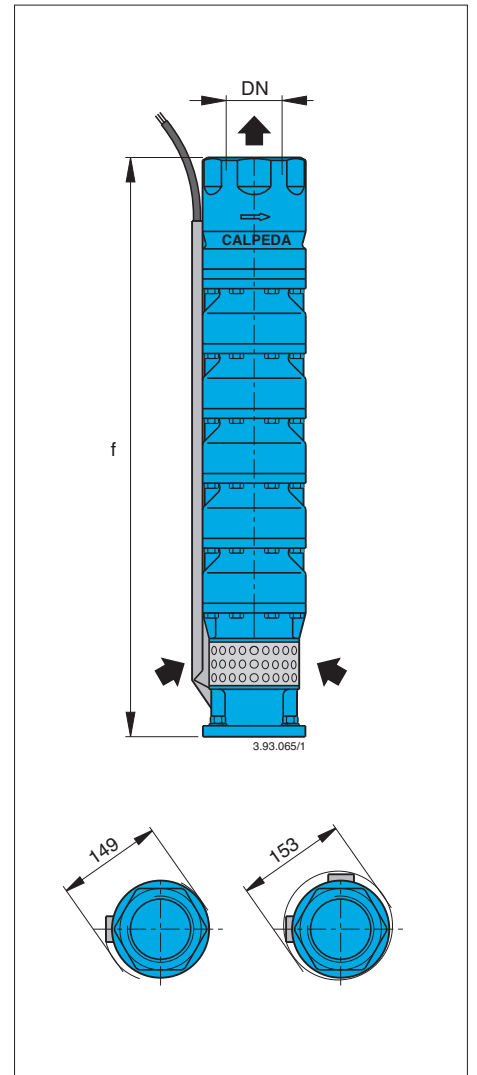
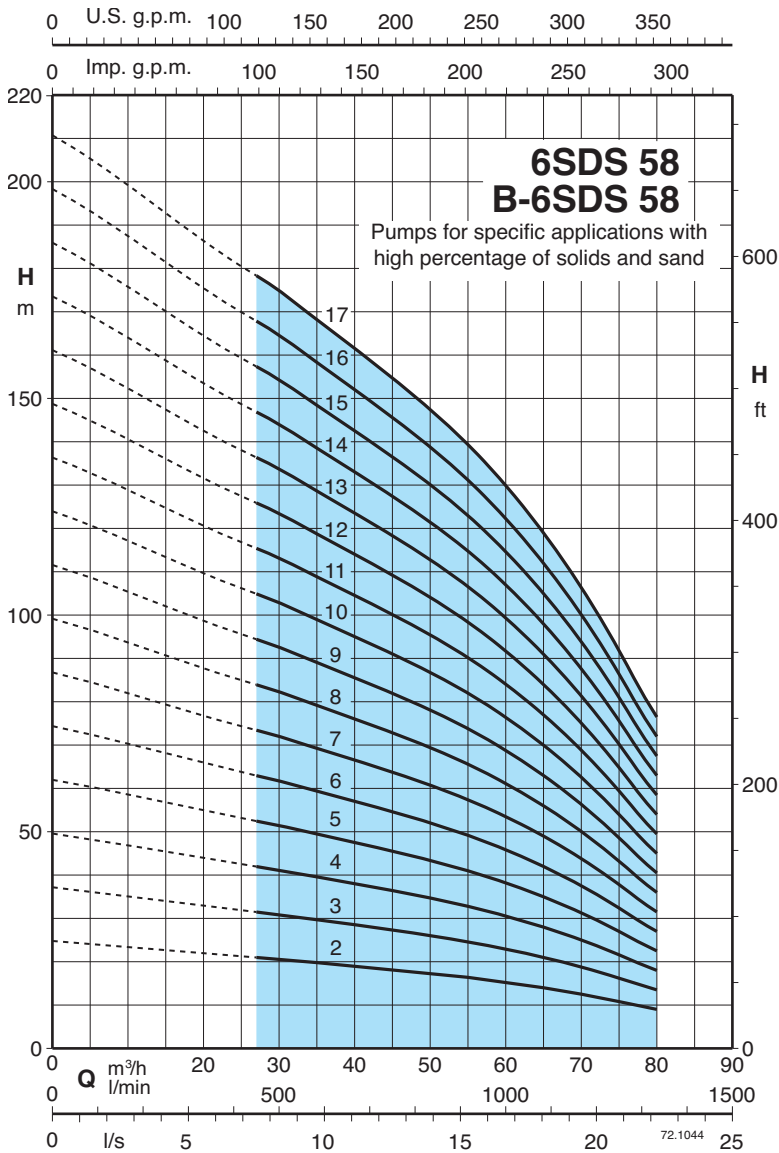
Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



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

DN	f	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	

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



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

DN	f	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

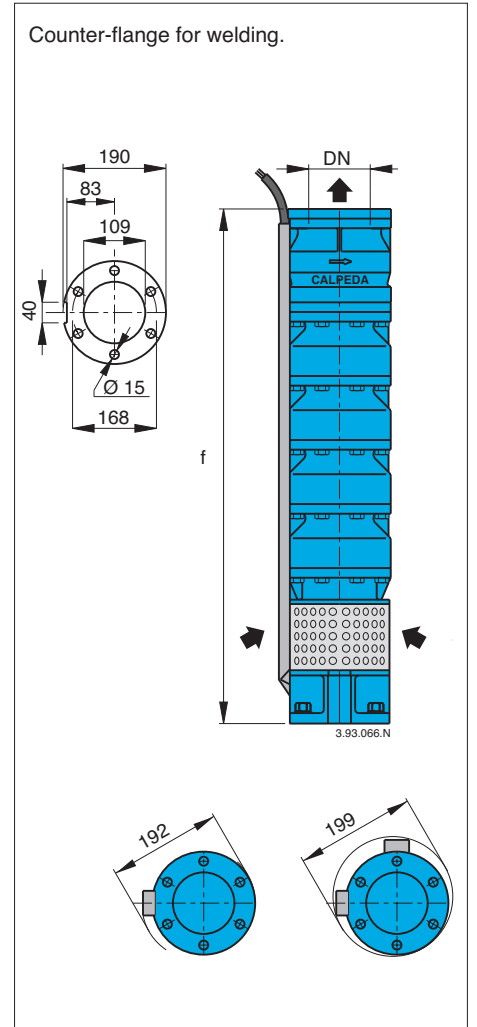
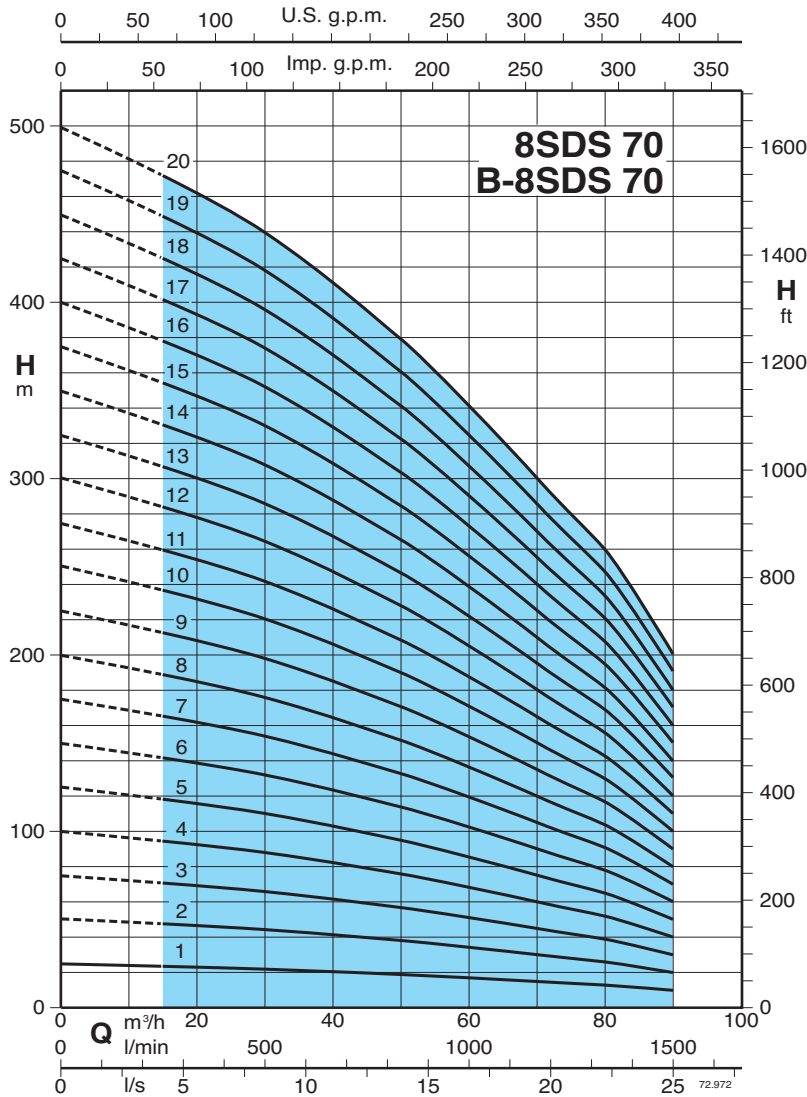
(...) FK motor rated power output

H Total head in m

Tolerances according to UNI EN ISO 9906:2012

8SDS 70

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



3 ~	P ₂		Q	n ≈ 2900 rpm										
	kW	HP		m³/h	15	20	30	40	50	60	70	80	90	
					l/min	250	333	500	666	833	1000	1166	1333	1500
8SDS 70/1 - B-8SDS 70/1	5,5	7,5	H m	23,5	23	22	20,5	19	17	15	13	10		
8SDS 70/2 - B-8SDS 70/2	9,2	12,5		47	46	44	41	38	34	30	26	20		
8SDS 70/3 - B-8SDS 70/3	15	20		70,5	69	66	61,5	57	51	45	39	30		
8SDS 70/4 - B-8SDS 70/4	18,5	25		94	92	88	82	76	68	60	52	40		
8SDS 70/5 - B-8SDS 70/5	22	30		118	115	110	102	95	85	75	65	50		
8SDS 70/6 - B-8SDS 70/6	26 (30)	35 (40)		141	138	132	123	114	102	90	78	60		
8SDS 70/7 - B-8SDS 70/7	30	40		165	161	154	143	133	119	105	91	70		
8SDS 70/8 - B-8SDS 70/8	37	50		188	184	176	164	152	136	120	104	80		
8SDS 70/9 - B-8SDS 70/9	45	60		212	207	198	184	171	153	135	117	90		
8SDS 70/10 - B-8SDS 70/10	45	60		235	230	220	205	190	170	150	130	100		
8SDS 70/11 - B-8SDS 70/11	51 (55)	70 (75)		259	253	242	225	209	187	165	143	110		
8SDS 70/12 - B-8SDS 70/12	55	75		282	276	264	246	228	204	180	156	120		
8SDS 70/13 - B-8SDS 70/13	59 (75)	80 (100)		306	299	286	266	247	221	195	169	130		
8SDS 70/14 - B-8SDS 70/14	59 (75)	80 (100)		329	322	308	287	266	238	210	182	140		
8SDS 70/15 - B-8SDS 70/15	66 (75)	90 (100)		353	345	330	307	285	255	225	195	150		
8SDS 70/16 - B-8SDS 70/16	75	100		376	368	352	328	304	272	240	208	160		
8SDS 70/17 - B-8SDS 70/17	75	100		400	391	374	348	323	289	255	221	170		
8SDS 70/18 - B-8SDS 70/18	92	125		423	414	396	369	342	306	270	234	180		
8SDS 70/19 - B-8SDS 70/19	92	125		447	437	418	389	361	323	285	247	190		
8SDS 70/20 - B-8SDS 70/20	92	125		470	460	440	410	380	340	300	260	200		

DN	Motor		f	8SDS	B-8SDS
	CS-R 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
	1262	93,5	106		
	1394	105	118		
	1526	116	131		
	1658	127	143		
	1790	138	156		
191 8"	196 8"	1922	149	168	
		2054	160	181	
		2186	171	194	
		2318	182	206	
		2450	193	219	
2582	205	231			
2714	216	244			
2846	227	256			
2978	238	269			
3110	249	281			

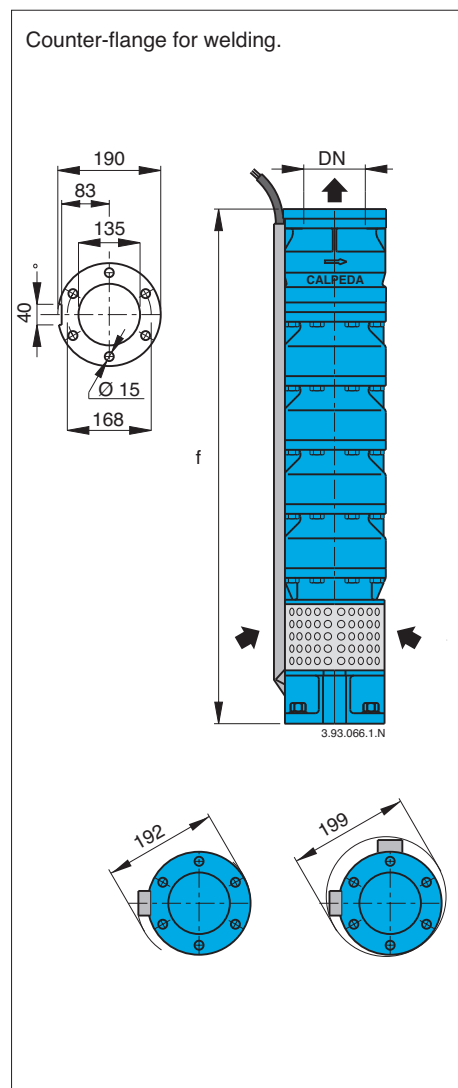
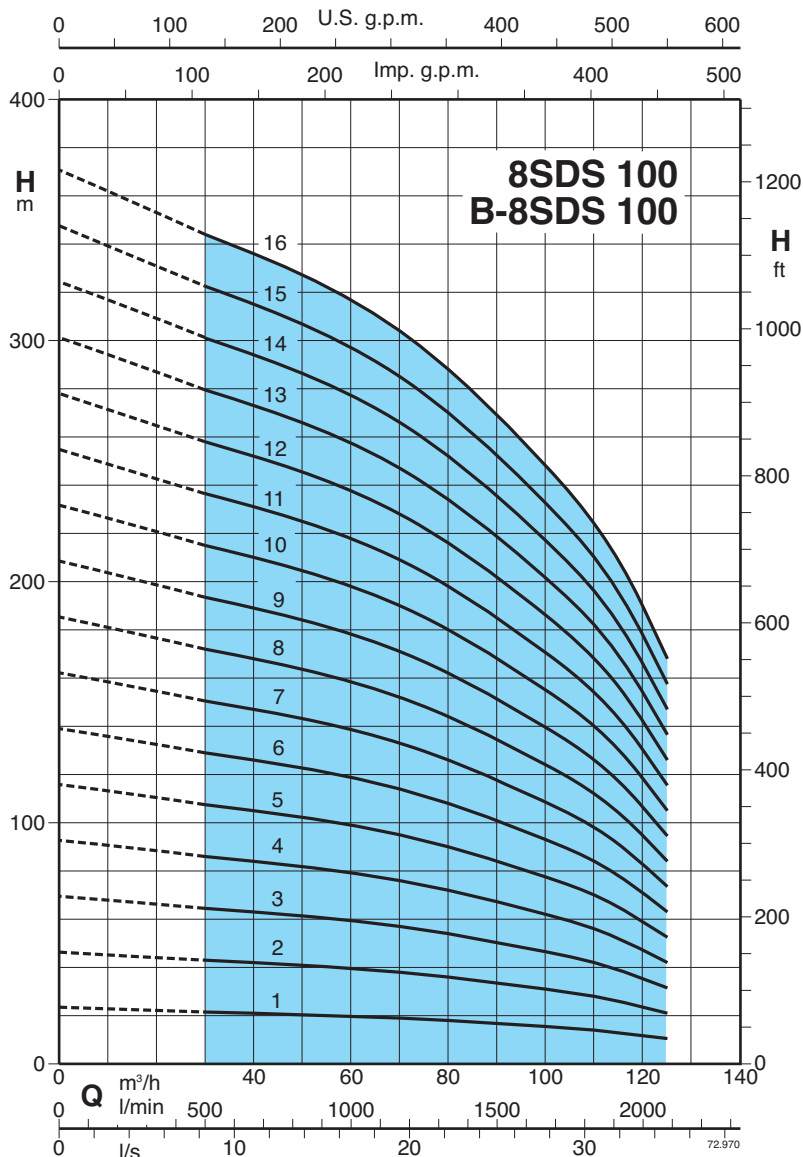
P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to UNI EN ISO 9906:2012

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



3 ~	P ₂		Q	n ≈ 2900 rpm											
	kW	HP		m ³ /h	30	40	50	60	70	80	90	100	110	125	
				l/min	500	666	833	1000	1166	1333	1500	1666	1833	2083	
8SDS 100/1 - B-8SDS 100/1	5,5	7,5	H m	21,5	21	20,5	20	19	18	17	15,5	14	10,5		
8SDS 100/2 - B-8SDS 100/2	11	15		43	42	41	40	38	36	34	31	28	21		
8SDS 100/3 - B-8SDS 100/3	18,5	25		64,5	63	61,5	60	57	54	51	46,5	42	31,5		
8SDS 100/4 - B-8SDS 100/4	22	30		86	84	82	80	76	72	68	62	56	42		
8SDS 100/5 - B-8SDS 100/5	30	40		107	105	102	100	95	90	85	77,5	70	52,5		
8SDS 100/6 - B-8SDS 100/6	37	50		129	126	123	120	114	108	102	93	84	63		
8SDS 100/7 - B-8SDS 100/7	45	60		150	147	143	140	133	126	119	108	98	73,5		
8SDS 100/8 - B-8SDS 100/8	45	60		172	168	164	160	152	144	136	124	112	84		
8SDS 100/9 - B-8SDS 100/9	51 (55)	70 (75)		193	189	184	180	171	162	153	139	126	94,5		
8SDS 100/10 - B-8SDS 100/10	55	75		215	210	205	200	190	180	170	155	140	105		
8SDS 100/11 - B-8SDS 100/11	66 (75)	90 (100)		236	231	225	220	209	198	187	170	154	115		
8SDS 100/12 - B-8SDS 100/12	66 (75)	90 (100)		258	252	246	240	228	216	204	186	168	126		
8SDS 100/13 - B-8SDS 100/13	75	100		279	273	266	260	247	234	221	201	182	136		
8SDS 100/14 - B-8SDS 100/14	92	125		301	294	287	280	266	252	238	217	196	147		
8SDS 100/15 - B-8SDS 100/15	92	125		322	315	307	300	285	270	255	232	210	157		
8SDS 100/16 - B-8SDS 100/16	92	125		344	336	328	320	304	288	272	248	224	168		

DN	Motor		f	8SDS	B-8SDS
	CS-R mm	FK mm			
125	145 6"	137 6"	602	38	43
			734	49	55
			866	59	67
			998	70	79
			1130	81	91
			1262	92	103
	191 8"	196 8"	1394	102	115
			1526	113	128
			1658	124	140
			1790	135	152
			1922	145	164
			2054	156	176
125	191 8"	196 8"	2186	167	188
			2318	177	200
			2450	188	212
			2582	199	224

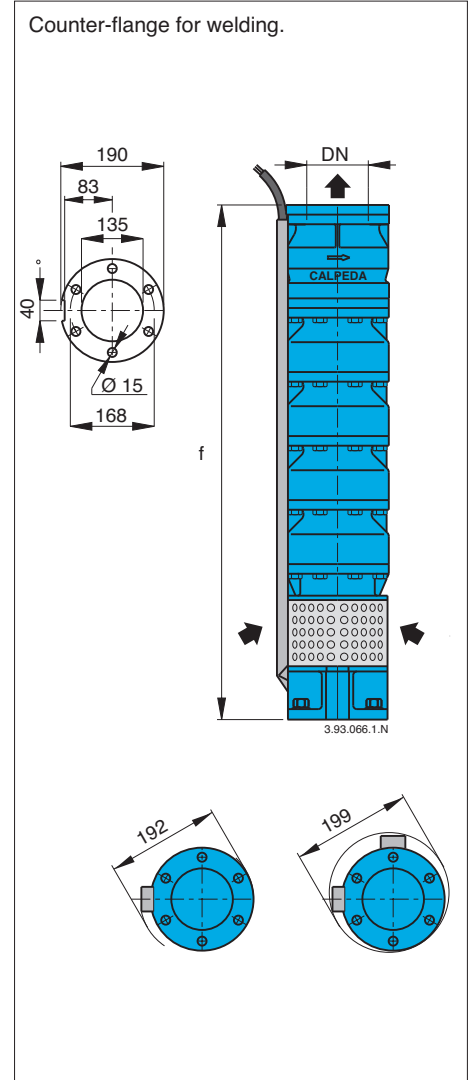
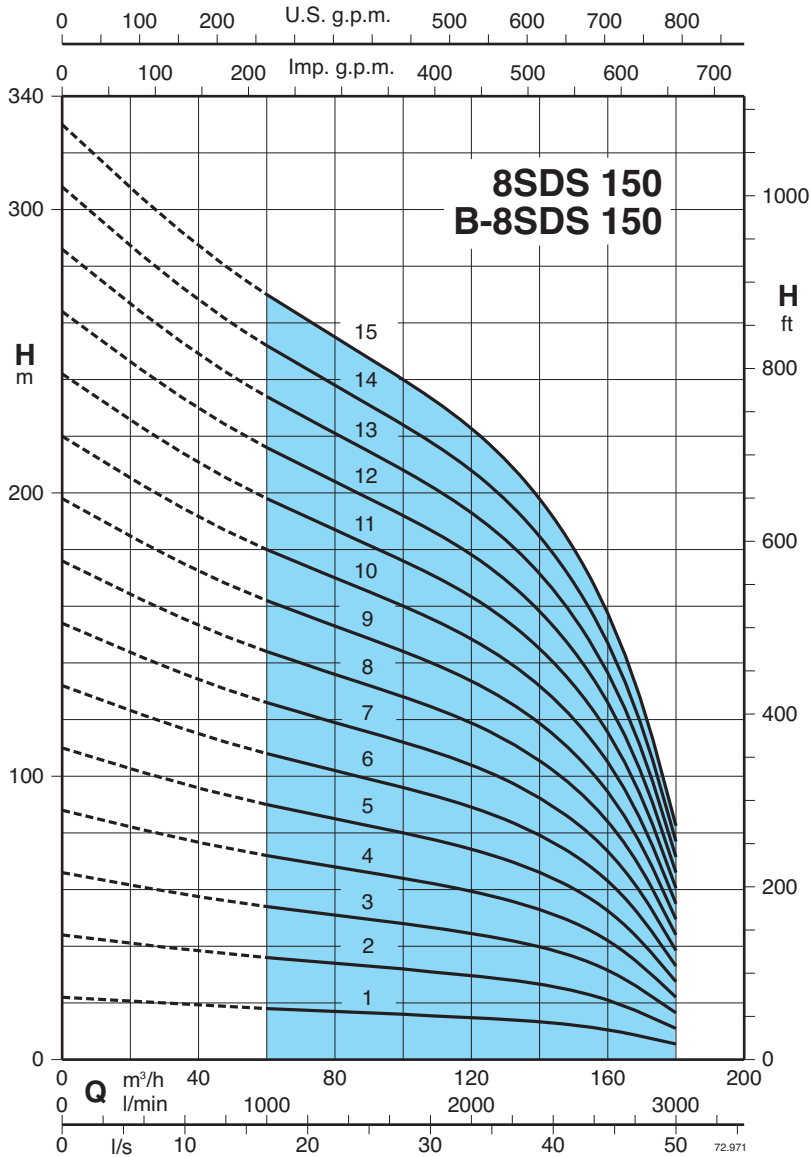
P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to UNI EN ISO 9906:2012

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



3 ~	P2		Q	$n \approx 2900$ rpm												DN	Motor		f	8SDS	B-8SDS	
	kW	HP		m³/h	$n \approx 2900$ rpm												CS-R	FK				
					l/min	60	70	80	90	100	110	125	140	150	160							180
8SDS 150/1 - B-8SDS 150/1	7,5	10	H m	18	17,5	17	16,5	16	15,5	14,5	13	11,5	10,5	5,5	125	145 6"	137 6"	602	38	43		
8SDS 150/2 - B-8SDS 150/2	15	20		36	35	34	33	32	31	29	26	23	21	11				734	49	55,5		
8SDS 150/3 - B-8SDS 150/3	22	30		54	52,5	51	49,5	48	46,5	43,5	39	34,5	31,5	16,5				866	60	68		
8SDS 150/4 - B-8SDS 150/4	30	40		72	70	68	66	64	62	58	52	46	42	22				998	71,5	80,5		
8SDS 150/5 - B-8SDS 150/5	37	50		90	87,5	85	82,5	80	77,5	72,5	65	57,5	52,5	27,5				1130	82,5	93		
8SDS 150/6 - B-8SDS 150/6	45	60		108	105	102	99	96	93	87	78	69	63	33				1262	93,5	106		
8SDS 150/7 - B-8SDS 150/7	51 (55)	70 (75)		126	122	119	115	112	108	101	91	80,5	73,5	38,5		1394	105	118				
8SDS 150/8 - B-8SDS 150/8	59 (75)	80 (100)		144	140	136	132	128	124	116	104	92	84	44		1526	116	131				
8SDS 150/9 - B-8SDS 150/9	66 (75)	90 (100)		162	157	153	148	144	139	130	117	103	94,5	49,5		1658	127	143				
8SDS 150/10 - B-8SDS 150/10	75	100		180	175	170	165	160	155	145	130	115	105	55		1790	138	156				
8SDS 150/11 - B-8SDS 150/11	92	125		198	192	187	181	176	170	159	143	126	115	60,5		1922	149	168				
8SDS 150/12 - B-8SDS 150/12	92	125		216	210	204	198	192	186	174	156	138	126	66		2054	160	181				
8SDS 150/13 - B-8SDS 150/13	110	150		234	227	221	214	208	201	188	169	149	136	71,5		2186	171	194				
8SDS 150/14 - B-8SDS 150/14	110	150		252	245	238	231	224	217	203	182	161	147	77		2318	182	206				
8SDS 150/15 - B-8SDS 150/15	110	150		270	262	255	247	240	232	217	195	172	157	82,5		2450	193	219				

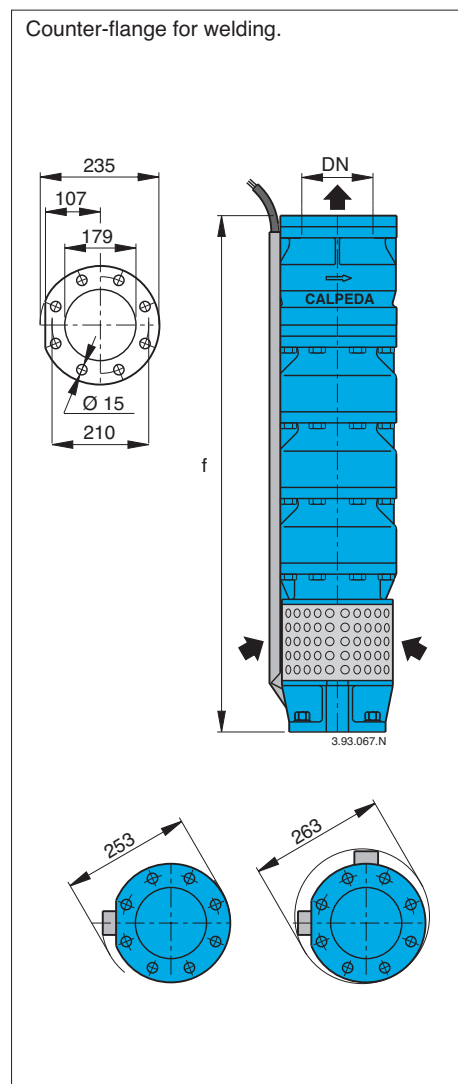
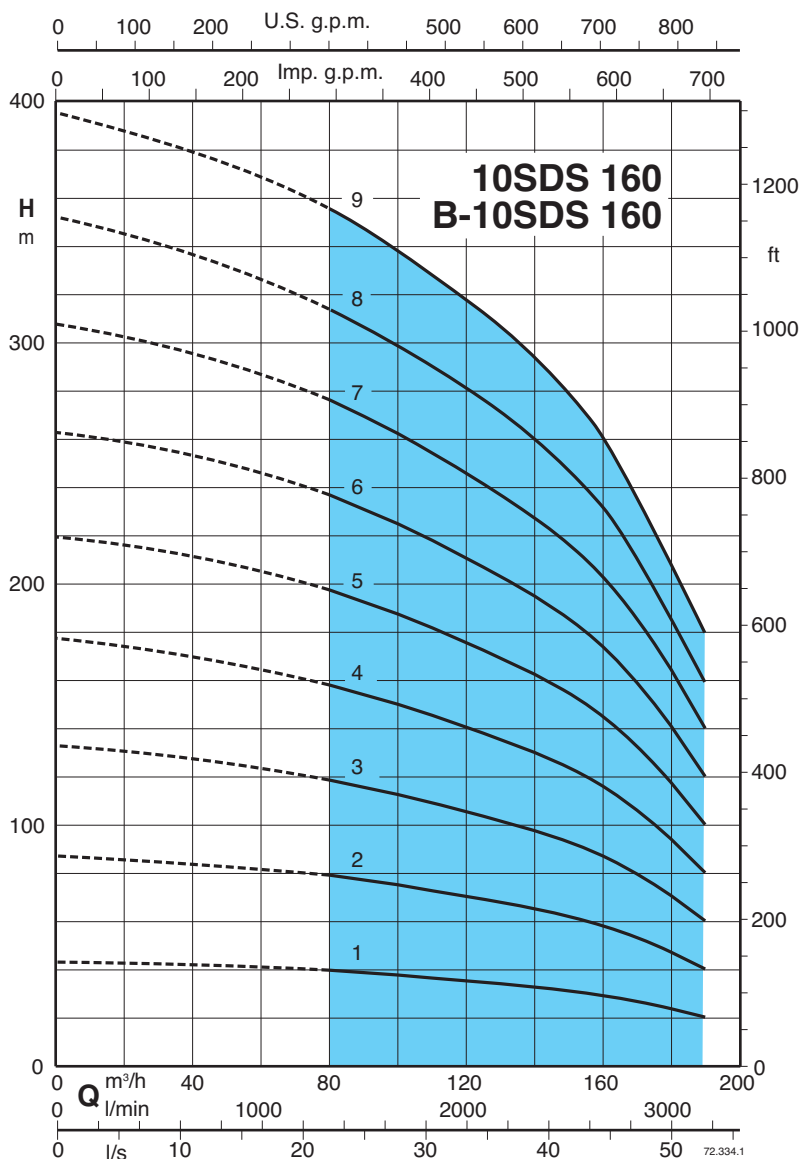
P2 Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to UNI EN ISO 9906:2012

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



تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)، روبروی پالایشگاه نفت پارس، پلاک ۱۲ Tel: ۰۲۱ - ۴۸۰۰۰۰۴۹ Fax: ۰۲۱ - ۴۴۹۹۴۶۴۲

www.famcocorp.com

E-mail: info@famcocorp.com

3 ~	P ₂		Q	n ≈ 2900 rpm												DN	Motor		f	10SDS	B-10SDS	
	kW	HP		m ³ /h	l/min	80	90	100	110	125	140	150	160	170	180		190	CS-R				FK
						mm	mm	mm	kg	kg												
10SDS 160/1 - B-10SDS 160/1	18,5	25	39,5	38	37,5	36	34,5	32,5	31	29	26,5	22	20	145	137	865	77	87				
10SDS 160/2 - B-10SDS 160/2	37	50	78,5	76,5	74,5	72,5	69	65	62	58,5	53,5	44	40	6"	6"	1035	103	114				
10SDS 160/3 - B-10SDS 160/3	55	75	118	114	112	108	104	98	92,5	87,5	80	66,5	60	191	196	1205	126	141				
10SDS 160/4 - B-10SDS 160/4	75	100	157	153	149	145	138	130	123	117	107	88,5	80			8"	8"	1375	150	169		
10SDS 160/5 - B-10SDS 160/5	92	125	196	191	186	181	173	163	154	146	134	111	100	240	-	1545	173	195				
10SDS 160/6 - B-10SDS 160/6	110	150	236	229	224	217	207	195	185	175	160	133	120			1715	197	222				
10SDS 160/7 - B-10SDS 160/7	130	175	275	267	261	253	242	228	216	204	187	155	140			1885	220	249				
10SDS 160/8 - B-10SDS 160/8	150	200	314	305	298	289	276	260	246	233	213	177	160	10"	-	2055	244	276				
10SDS 160/9 - B-10SDS 160/9	185	250	356	342	338	324	311	293	279	261	239	198	180			2225	268	303				

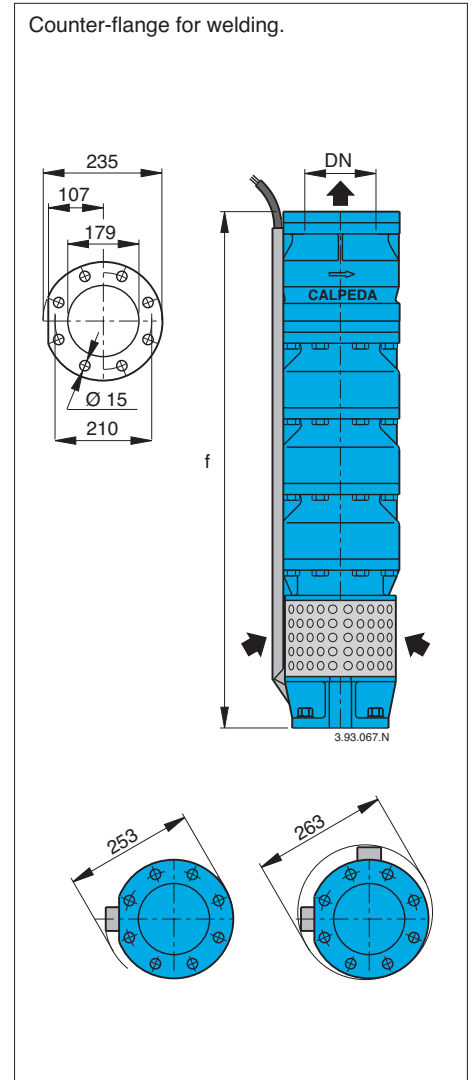
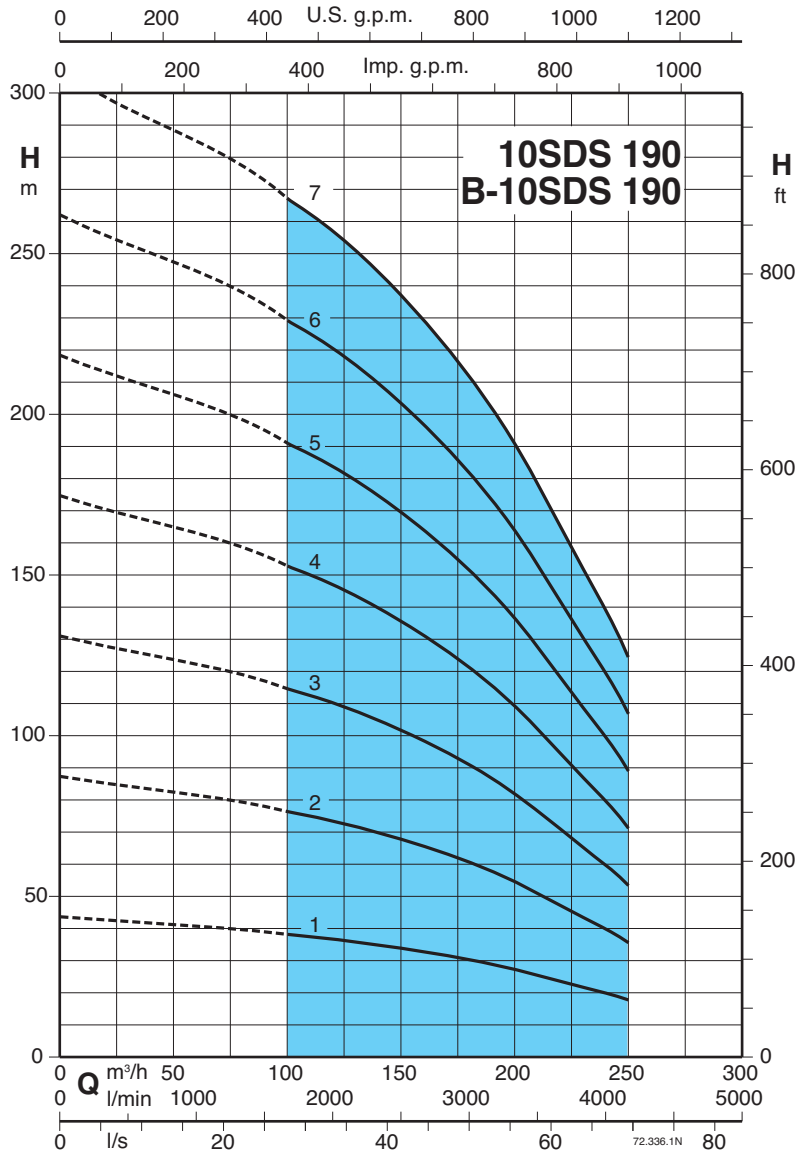
P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to UNI EN ISO 9906:2012

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



تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)، روبروی پالایشگاه نفت پارس، پلاک ۱۲ Tel: ۰۲۱ - ۴ ۸ ۰ ۰ ۰ ۰ ۴ ۹ Fax: ۰۲۱ - ۴ ۴ ۹ ۹ ۴ ۶ ۴ ۲

www.famcocorp.com

E-mail: info@famcocorp.com

3 ~	P2		Q	$n \approx 2900$ rpm											DN	Motor		f	10SDS	B-10SDS							
	kW	HP		$n \approx 2900$ rpm												CS-R	FK										
			m ³ /h	100	120	140	160	180	200	220	230	240	250	mm							mm	kg	kg				
10SDS 190/1 - B-10SDS 190/1	22	30	H m	38	37	35	33	30	27	24	22	20	18	175	145 6"	137 6"	865	78	88								
10SDS 190/2 - B-10SDS 190/2	45	60		76	73	70	66	61	55	47	44	40	36							191 8"	196 8"	1205	102	115			
10SDS 190/3 - B-10SDS 190/3	66 (75)	90 (100)		115	110	105	98	91	82	71	65	59	53												240 10"	-	1545
10SDS 190/4 - B-10SDS 190/4	92	125		153	147	140	131	121	109	95	87	79	71							1715	199	225					
10SDS 190/5 - B-10SDS 190/5	110	150		191	183	175	164	152	137	119	109	99	89										1885	223			
10SDS 190/6 - B-10SDS 190/6	130	175		229	220	210	197	182	164	142	131	119	107														
10SDS 190/7 - B-10SDS 190/7	185	250		267	257	244	230	212	191	166	152	139	125														

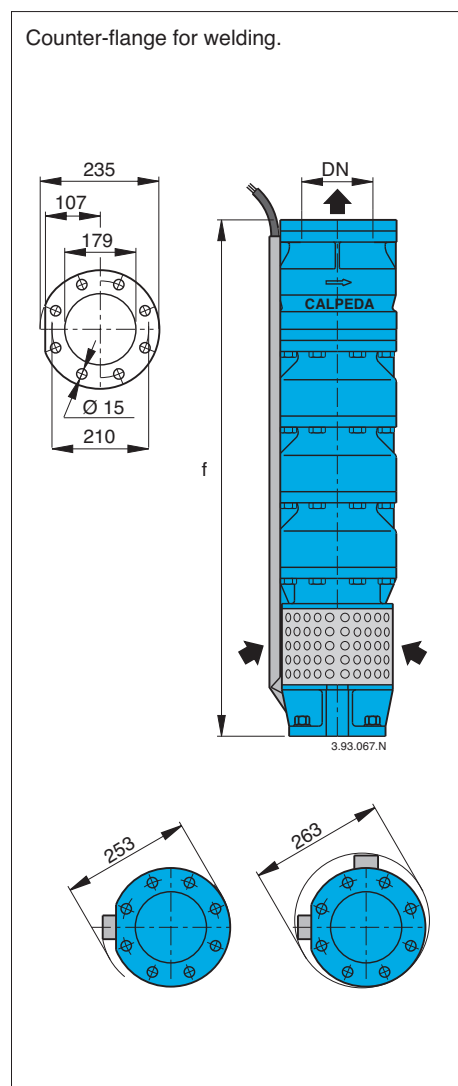
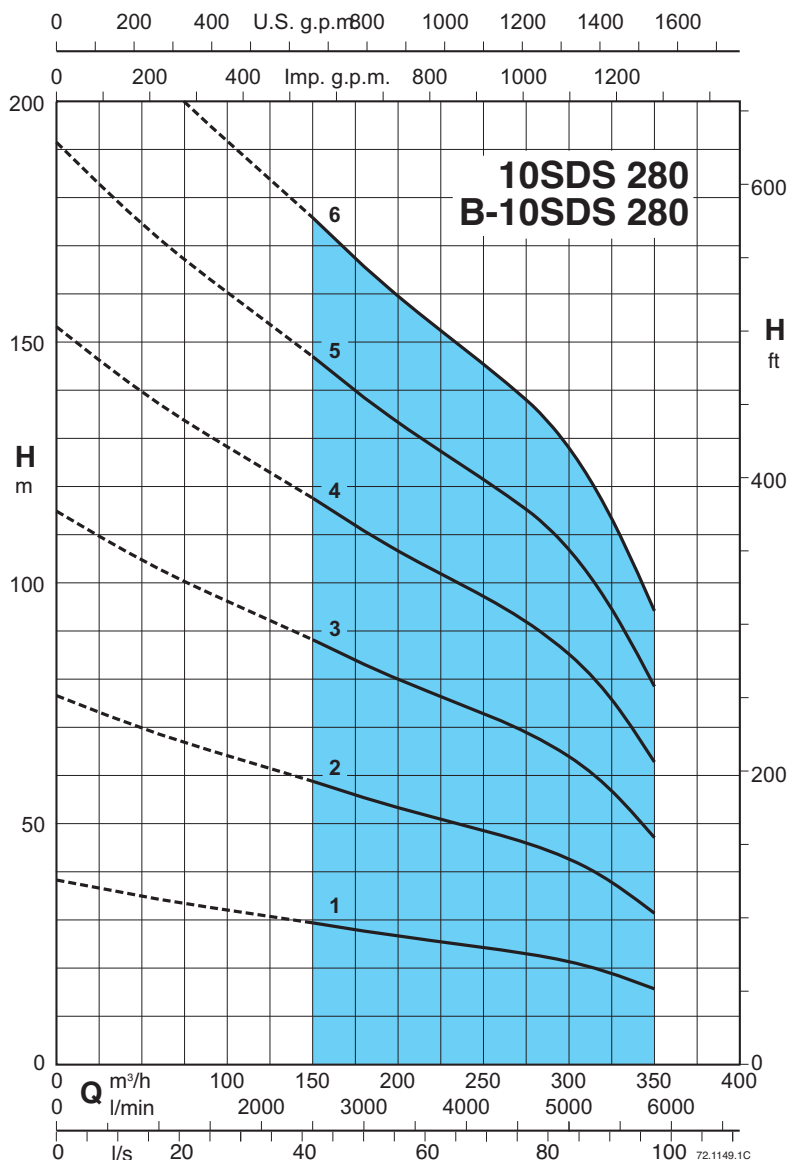
P2 Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to UNI EN ISO 9906:2012

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



تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)، روبروی پالایشگاه نفت پارس، پلاک ۱۲ Tel: ۰۲۱ - ۴۸۰۰۰۰۴۹ Fax: ۰۲۱ - ۴۴۹۹۴۶۴۲

www.famcocorp.com

E-mail: info@famcocorp.com

3 ~	P ₂		Q	n ≈ 2900 rpm											DN	Motor		f	10SDS	B-10SDS
																CS-R	FK			
	kW	HP	m ³ /h	150	180	200	220	240	260	280	300	315	350	mm		mm	mm			
10SDS 280/1 - B-10SDS 280/1	26 (30)	35 (40)	l/min	2500	3000	3333	3666	4000	4333	4666	5000	5250	5833	175	145-6"	137-6"	865	78	88	
10SDS 280/2 - B-10SDS 280/2	55	75	H m	29	28	27	26	25	24	23	21	20	16		191	196	1035	103	116	
10SDS 280/3 - B-10SDS 280/3	75	100		59	55	53	51	50	48	46	42	40	31		8"		1205	127	143	
10SDS 280/4 - B-10SDS 280/4	110	150		88	83	80	77	75	71	69	64	60	47		240		1375	151	170	
10SDS 280/5 - B-10SDS 280/5	130	175		118	111	106	103	100	95	92	85	80	63		10"	1545	175	198		
10SDS 280/6 - B-10SDS 280/6	150	200		147	139	133	129	125	119	115	106	100	79			1715	199	226		
				176	167	160	155	150	143	138	127	120	95							

P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to UNI EN ISO 9906:2012

Cables connection kit

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

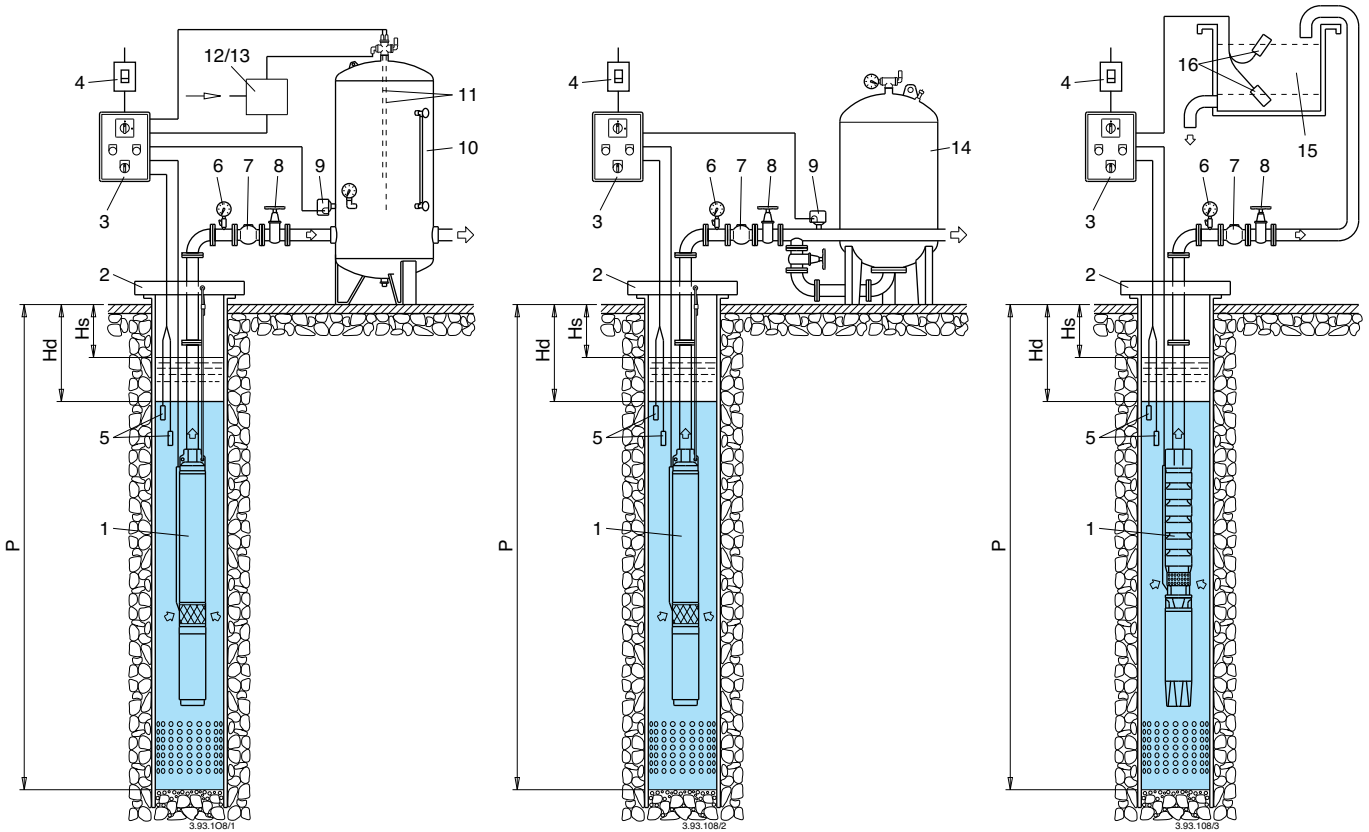
The kit includes:

- 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.



Installation examples



- 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