



Material

Components	6SDX	6SDXL	8SDXL
External jacket	Cr-Ni steel AISI 304	Cr-Ni-Mo steel AISI 316L	Cr-Ni-Mo steel AISI 316
Suction lantern			
Upper cover	Cr-Ni-Mo steel AISI 316		-
Strainer	Cr-Ni-Mo steel AISI 316		
Delivery casing	Cr-Ni-Mo steel 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-Mo steel AISI 316L	
Impeller	Cr-Ni steel AISI 304	Cr-Ni-Mo steel AISI 316L	
Stage casing		Cr-Ni-Mo steel AISI 316L	
Wear ring	Teflon (PTFE)		
Bearing bush	NBR		
Cable guard	Cr-Ni-Mo steel		
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 borehole pumps for 6" wells (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	Max. Liquid temperature	Cooling : minimum flow velocity	Max. starts per hour
6"	25 °C	0,20 m/s for 4 ÷ 15 kW 0,50 m/s for 18,5 ÷ 30 kW	15
8"	25 °C	0,20 m/s for 30 ÷ 51 kW 0,50 m/s for 55 ÷ 75 kW	15
10"	25 °C	0,50 m/s	10

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

6 SDX L 13 / 17

Ø of the well in inches _____

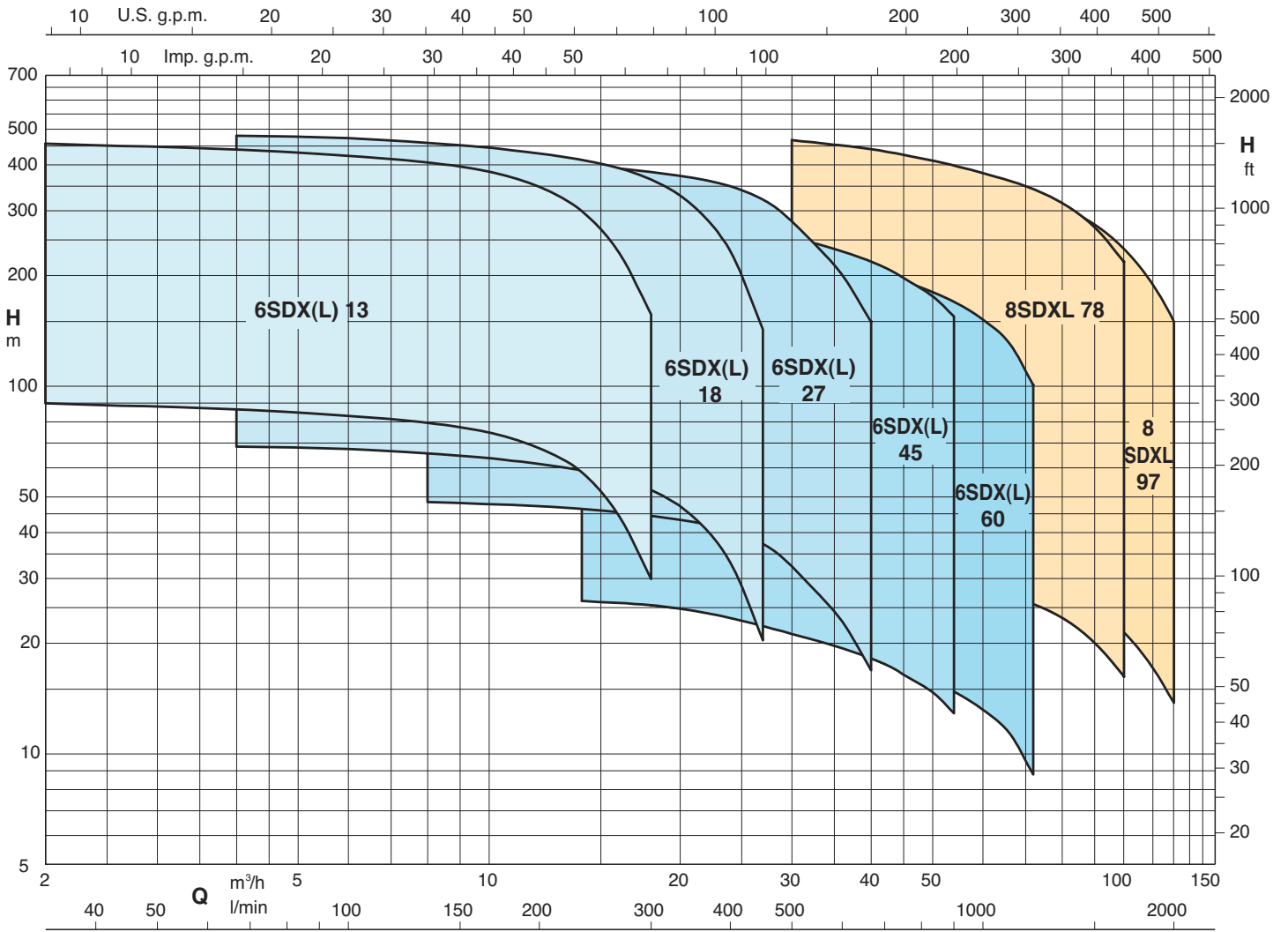
Series _____

Cr-Ni-Mo steel AISI 316 construction _____

Stage identification _____

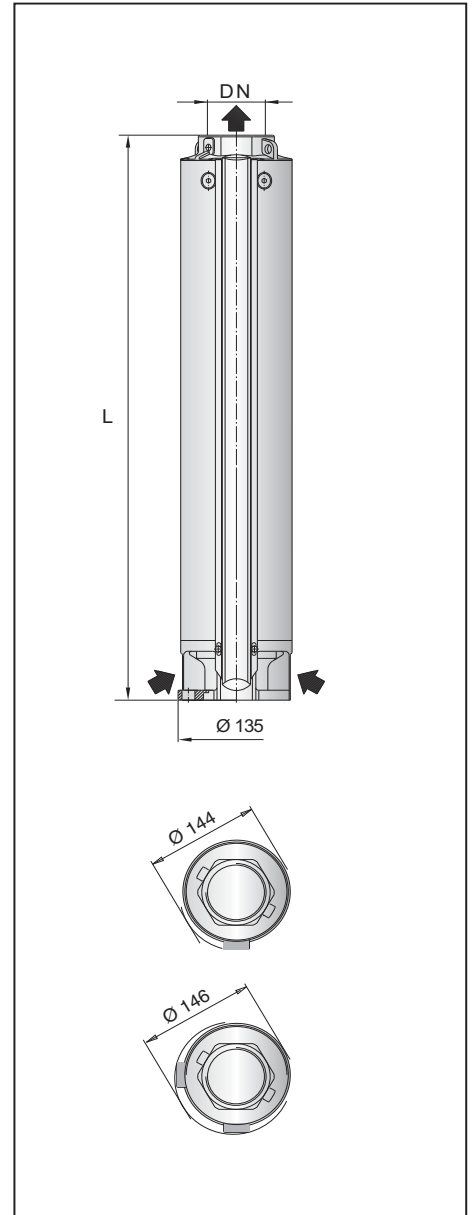
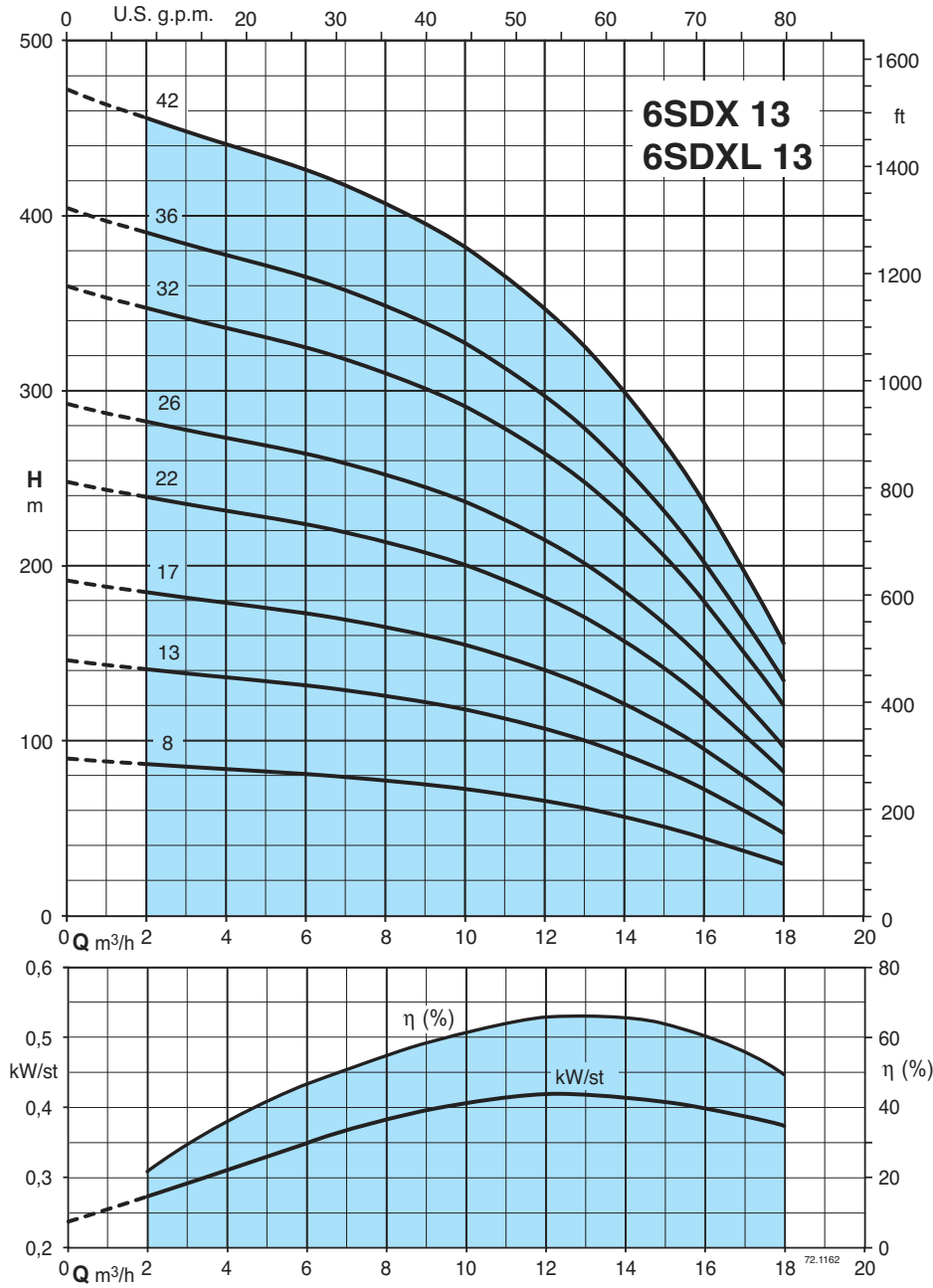
Number of stages _____

Coverage chart $n \approx 2900$ rpm



72.1161

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



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

DN	L	6SDX
Rp 2" 1/2	446	13
	596	16,5
	716	19,5
	866	23
	986	26
	1166	30,5
	1286	33,5
	1466	38

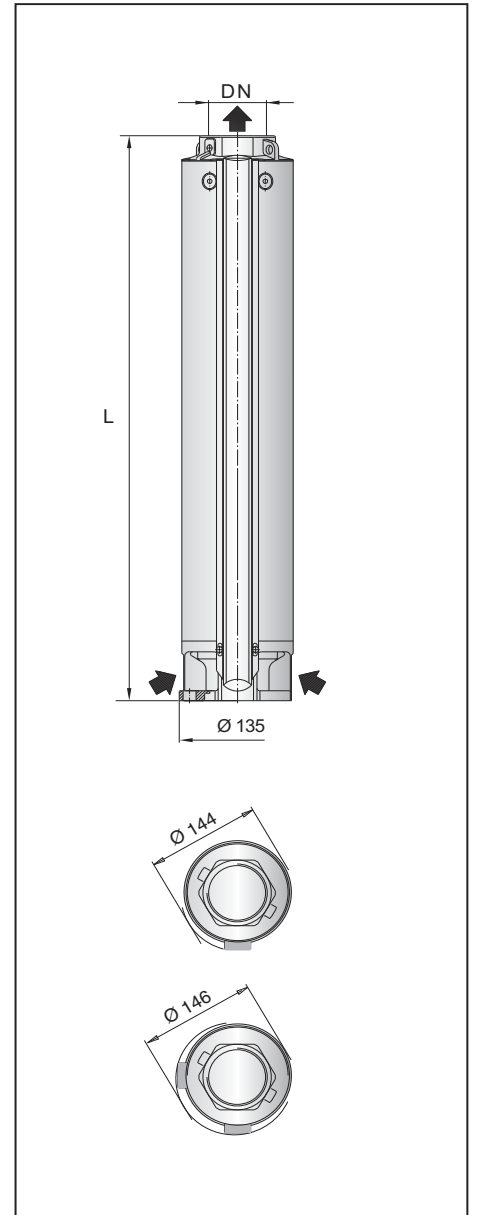
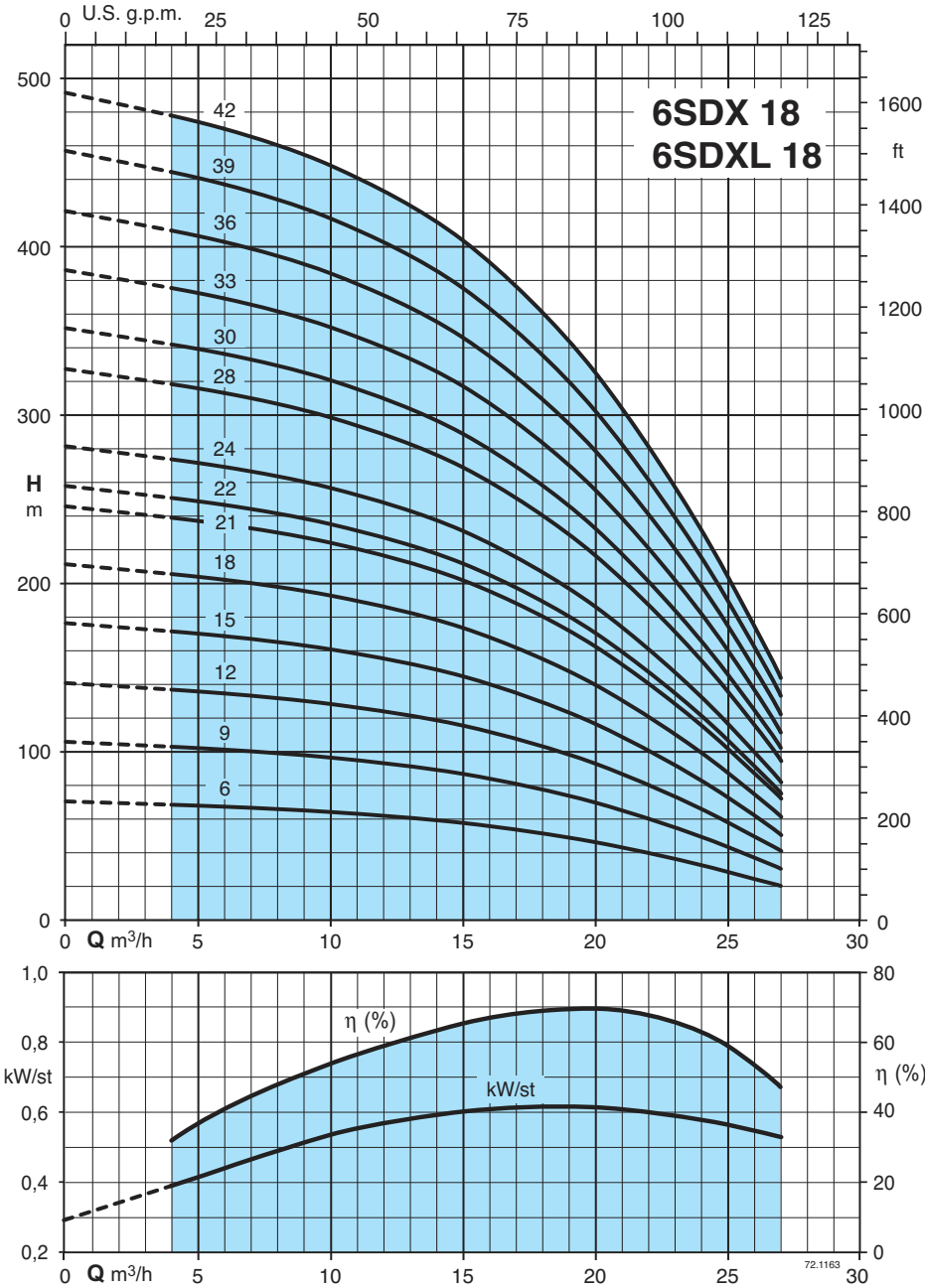
P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to ISO 9906, annex A

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



3 ~	P ₂		Q	n \approx 2900 rpm										
				m ³ /h										
				0	4	6	9	12	15	18	21	24	27	
	kW	HP	l/min	0	66,6	100	150	200	250	300	350	400	450	
6SDX 18/6 - 6SDXL 18/6	4	5,5	H	70,1	68,3	67,1	64,9	61,9	57,6	51,5	43,3	32,9	20,5	
6SDX 18/9 - 6SDXL 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 - 6SDXL 18/12	7,5	10		140	137	134	130	124	115	103	86,6	65,9	41	
6SDX 18/15 - 6SDXL 18/15	9,2	12,5		175	171	168	162	155	144	129	108	82,3	51,3	
6SDX 18/18 - 6SDXL 18/18	11	15		210	205	201	195	186	173	155	130	98,8	61,5	
6SDX 18/21 - 6SDXL 18/21	13 (15)	17,5 (20)		245	239	235	227	217	202	180	152	115	71,8	
6SDX 18/22 - 6SDXL 18/22	15	20		257	250	246	238	227	211	189	159	121	75,2	
6SDX 18/24 - 6SDXL 18/24	15	20		280	273	269	259	247	230	206	173	132	82	
6SDX 18/28 - 6SDXL 18/28	18,5	25		327	319	313	303	289	269	240	202	154	95,7	
6SDX 18/30 - 6SDXL 18/30	18,5	25		350	341	336	324	309	288	258	216	165	103	
6SDX 18/33 - 6SDXL 18/33	22	30		385	376	369	357	340	317	283	238	181	113	
6SDX 18/36 - 6SDXL 18/36	22	30		420	410	403	389	371	345	309	260	198	123	
6SDX 18/39 - 6SDXL 18/39	26 (30)	35 (40)		455	444	436	422	402	374	335	281	214	133	
6SDX 18/42 - 6SDXL 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	

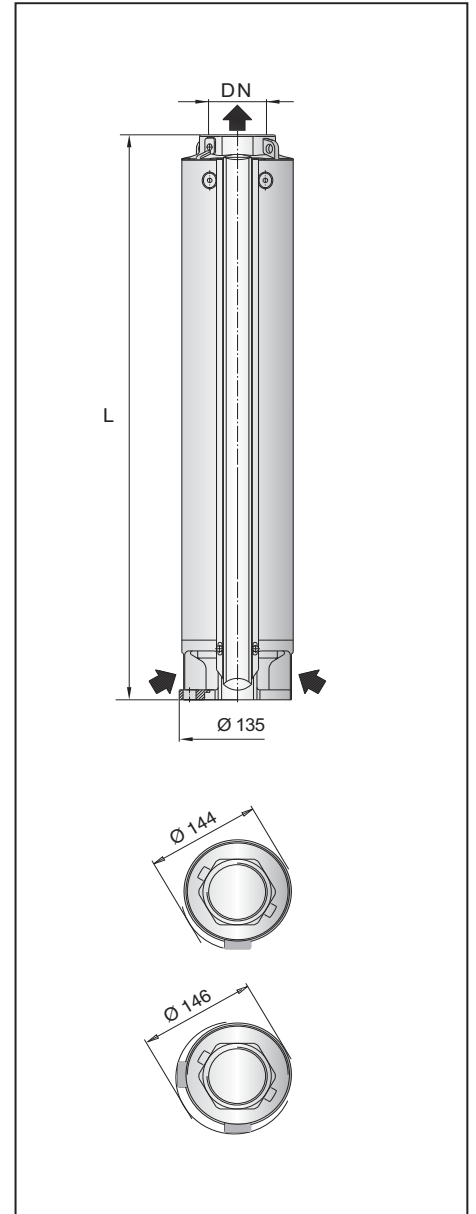
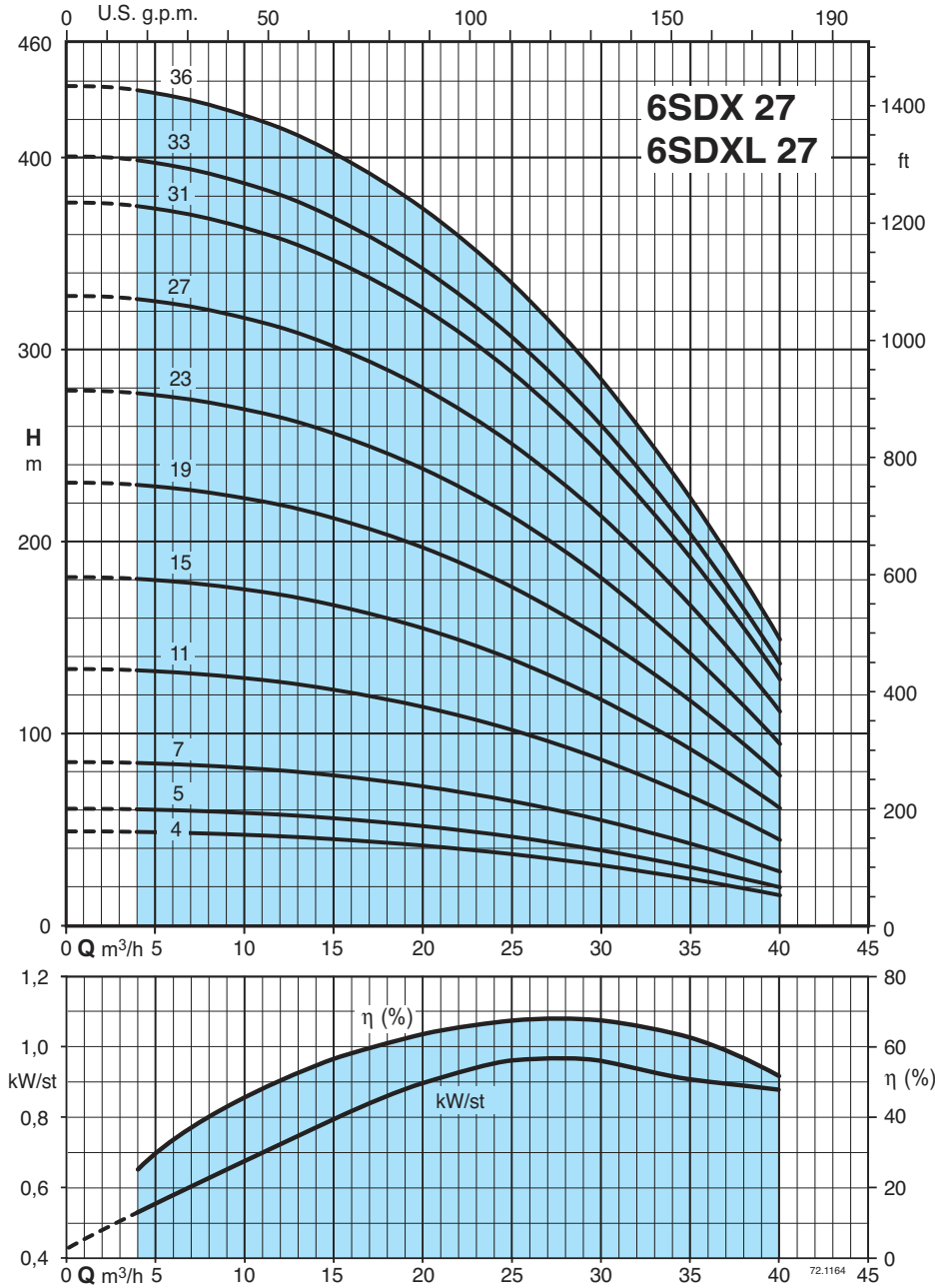
P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to ISO 9906, annex A

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



3 ~	P ₂		Q	n ≈ 2900 rpm											
				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 - 6SDXL 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 - 6SDXL 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 - 6SDXL 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 - 6SDXL 27/11	11	15		134	133	131	127	121	114	105	93,2	79,7	63,9	45,8	
6SDX 27/15 - 6SDXL 27/15	15	20		183	181	178	173	165	156	143	127	109	87,1	62,5	
6SDX 27/19 - 6SDXL 27/19	18,5	25		231	230	226	219	209	197	181	161	138	110	79,2	
6SDX 27/23 - 6SDXL 27/23	22	30		280	278	273	265	253	239	219	195	167	134	95,8	
6SDX 27/27 - 6SDXL 27/27	26 (30)	35 (40)		329	326	321	311	297	281	257	229	196	157	113	
6SDX 27/31 - 6SDXL 27/31	30	40		377	375	369	357	341	322	295	263	225	180	129	
6SDX 27/33 - 6SDXL 27/33	(37)	(50)		402	399	392	380	363	343	314	280	239	192	138	
6SDX 27/36 - 6SDXL 27/36	(37)	(50)		438	435	428	415	397	374	343	305	261	209	150	

DN	L	6SDX
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	

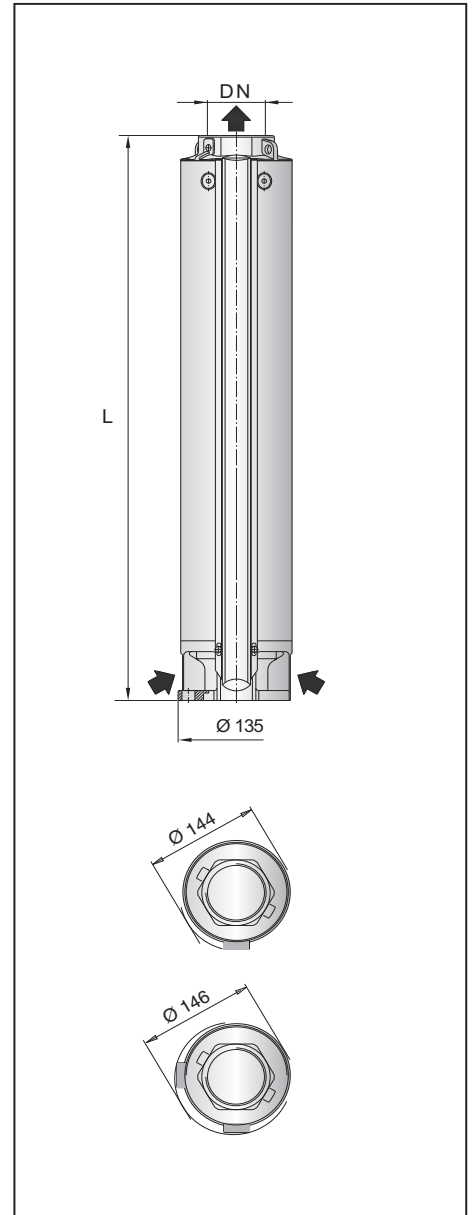
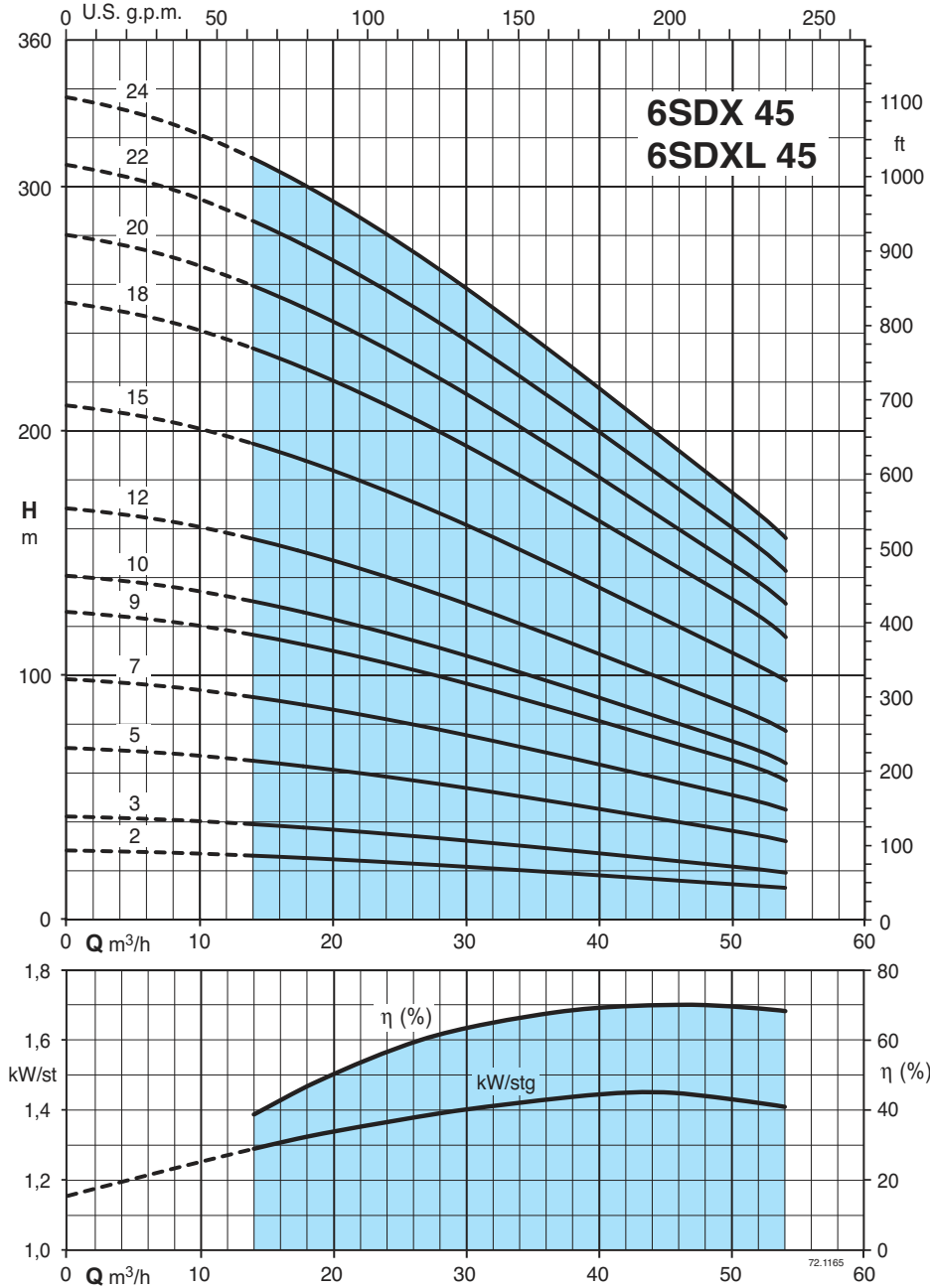
P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to ISO 9906, annex A

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



3 ~	P2		Q	n ≈ 2900 rpm												DN	L	6SDX		
	kW	HP		m³/h															mm	kg
				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 - 6SDXL 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	Rp 3"	365,5	11		
6SDX 45/3 - 6SDXL 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		458,5	13,5		
6SDX 45/5 - 6SDXL 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		644,5	18		
6SDX 45/7 - 6SDXL 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		830,5	22,5		
6SDX 45/9 - 6SDXL 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		1016,5	27		
6SDX 45/10 - 6SDXL 45/10	15	20		140	130	125	120	114	108	101	93,8	87,1	80,2	72,7	65		1109,5	29,5		
6SDX 45/12 - 6SDXL 45/12	18,5	25		168	156	150	144	137	129	121	113	105	96,2	87,3	78		1295,5	34		
6SDX 45/15 - 6SDXL 45/15	22	30		210	194	188	179	171	161	151	141	131	120	109	97,5		1574,5	40,5		
6SDX 45/18 - 6SDXL 45/18	26 (30)	35 (40)		252	233	225	215	205	194	182	169	157	144	131	117		1853,5	47,5		
6SDX 45/20 - 6SDXL 45/20	30	40		280	259	250	239	228	215	202	188	174	160	145	130		2039,5	52		
6SDX 45/22 - 6SDXL 45/22	(37)	(50)		308	285	275	263	251	237	222	206	192	176	160	143		2225,5	56,5		
6SDX 45/24 - 6SDXL 45/24	(37)	(50)		336	311	300	287	274	258	242	225	209	192	175	156		2411	61		

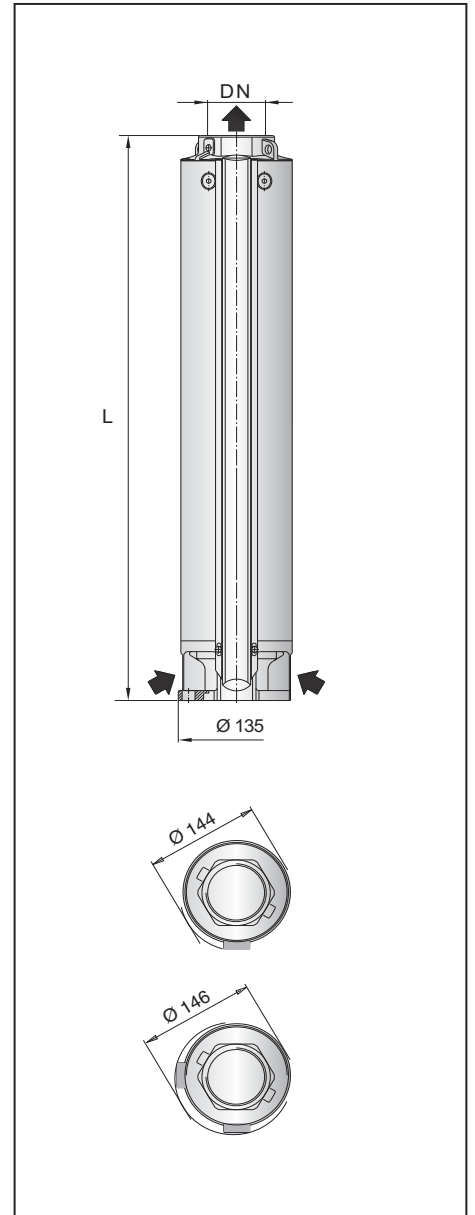
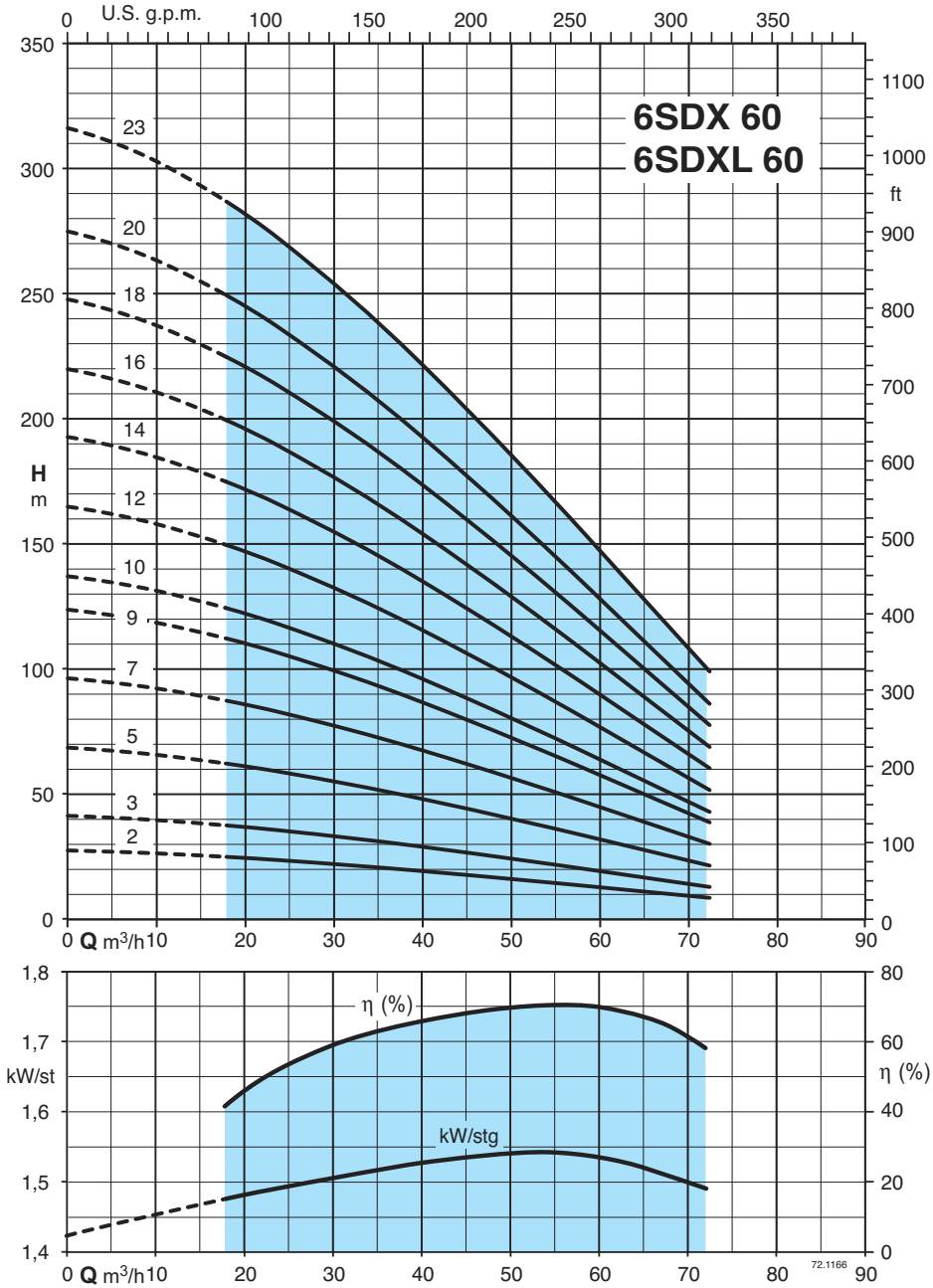
P2 Rated motor power output

(...) 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											
				0	18	24	30	36	42	48	54	60	66	72	
		H m	l/min												
			0	300	400	500	600	700	800	900	1000	1100	1200		
6SDX 60/2 - 6SDXL 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 - 6SDXL 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 - 6SDXL 60/5	7,5	10	69	61,5	59	54,5	50,5	46	42	37,5	32	27	22		
6SDX 60/7 - 6SDXL 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 - 6SDXL 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 - 6SDXL 60/10	15	20	137	124	118	110	102	93,3	83,9	74,1	64,1	53,9	44,1		
6SDX 60/12 - 6SDXL 60/12	18,5	25	164	149	141	132	123	112	101	89	77	64,7	53		
6SDX 60/14 - 6SDXL 60/14	22	30	192	174	165	154	143	131	117	104	89,8	75,5	61,8		
6SDX 60/16 - 6SDXL 60/16	26 (30)	35 (40)	219	199	189	176	163	149	134	119	103	86,3	70,6		
6SDX 60/18 - 6SDXL 60/18	30	40	247	224	212	198	184	168	151	133	115	97	79,4		
6SDX 60/20 - 6SDXL 60/20	(37)	(50)	274	249	236	220	204	187	168	148	128	108	88,3		
6SDX 60/23 - 6SDXL 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	

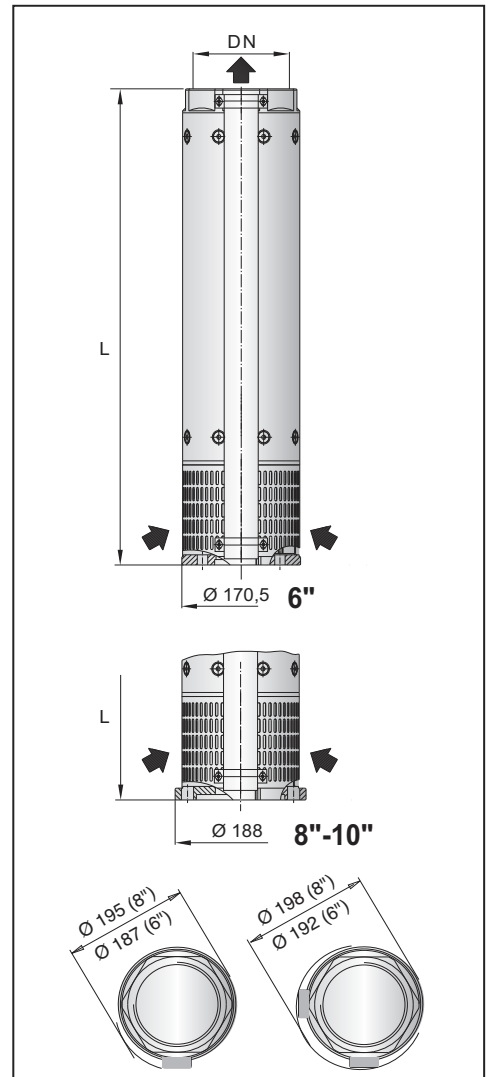
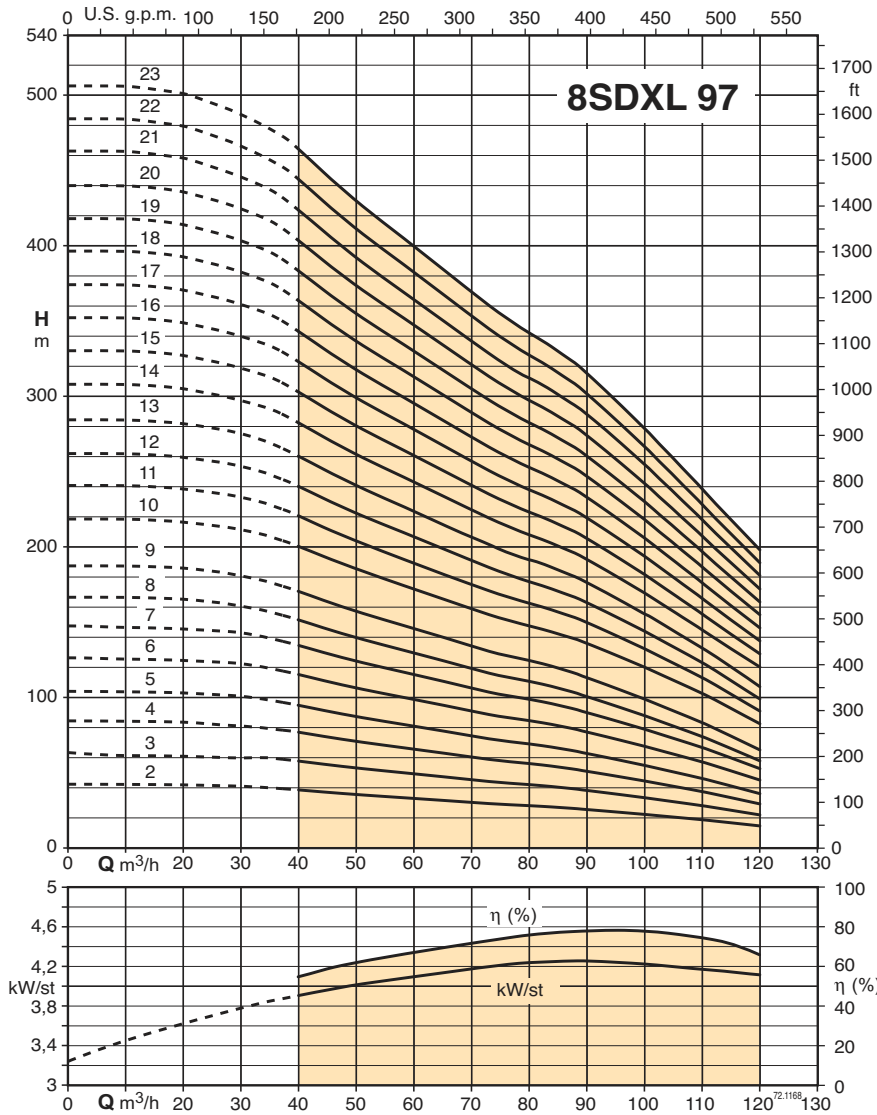
P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to ISO 9906, annex A

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



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

DN	Motor		L	8SDXL
	CS	FK		
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

P₂ Rated motor power output

(...) FK motor rated power output

H Total head in m

Tolerances according to ISO 9906, annex A

