



Construction

Submersible motor pumps for deep wells of 6" (DN 150 mm), 8" (DN 200 mm) and 10" (DN 250 mm).

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 35 °C (25 °C with rewindable motor).
Max. sand quantity into the water: 25 g/m³.
Max. starts per hour: 20 at regular intervals.
Continuous duty.

Standard motor

2-pole induction motor, 50 Hz (n = 2900 rpm).
Resin impregnated winding.
Sized for connection to the pumps according to NEMA Standards.
Standard voltages:
- three-phase 220 V - up to 30 kW;
380-415 V - from 4 kW up to 130 kW;
220/380 V - for 6"- 8" motors up to 75 kW;
380/660 V - for 6"- 8" motors up to 130 kW.
- other voltages and frequencies available on request.
Class F for 6" motors.
Protection IP 58.

Cable	Motor	Section	Length
6"	up to 22 kW	4 x 4 mm ²	4 m
6"	30 ÷ 45 kW	4 x 8,3mm ²	4 m
8"	55 ÷ 130 kW	3 x 21 mm ²	8 m

Rewindable motor (on request)

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 220 V ± 5%.
380 V ± 5%.
220/380 V ± 5%.
380/660 V ± 5%.
- other voltages and frequencies available on request.
Insulation class Y.
Protection IP 58.

Cable	Motor 380V 50 Hz	Section	Length
6"	4 ÷ 30kW	4 x 6 mm ²	3,5 m
8"	37 ÷ 60kW	4 x 16 mm ²	4 m
8"	66 kW	4 x 25 mm ²	4 m
10"	75 - 93kW	4 x 25 mm ²	4 m
10"	110 kW	3+1 x 35mm ²	4 m
10"	132 kW	3+1 x 50mm ²	4 m

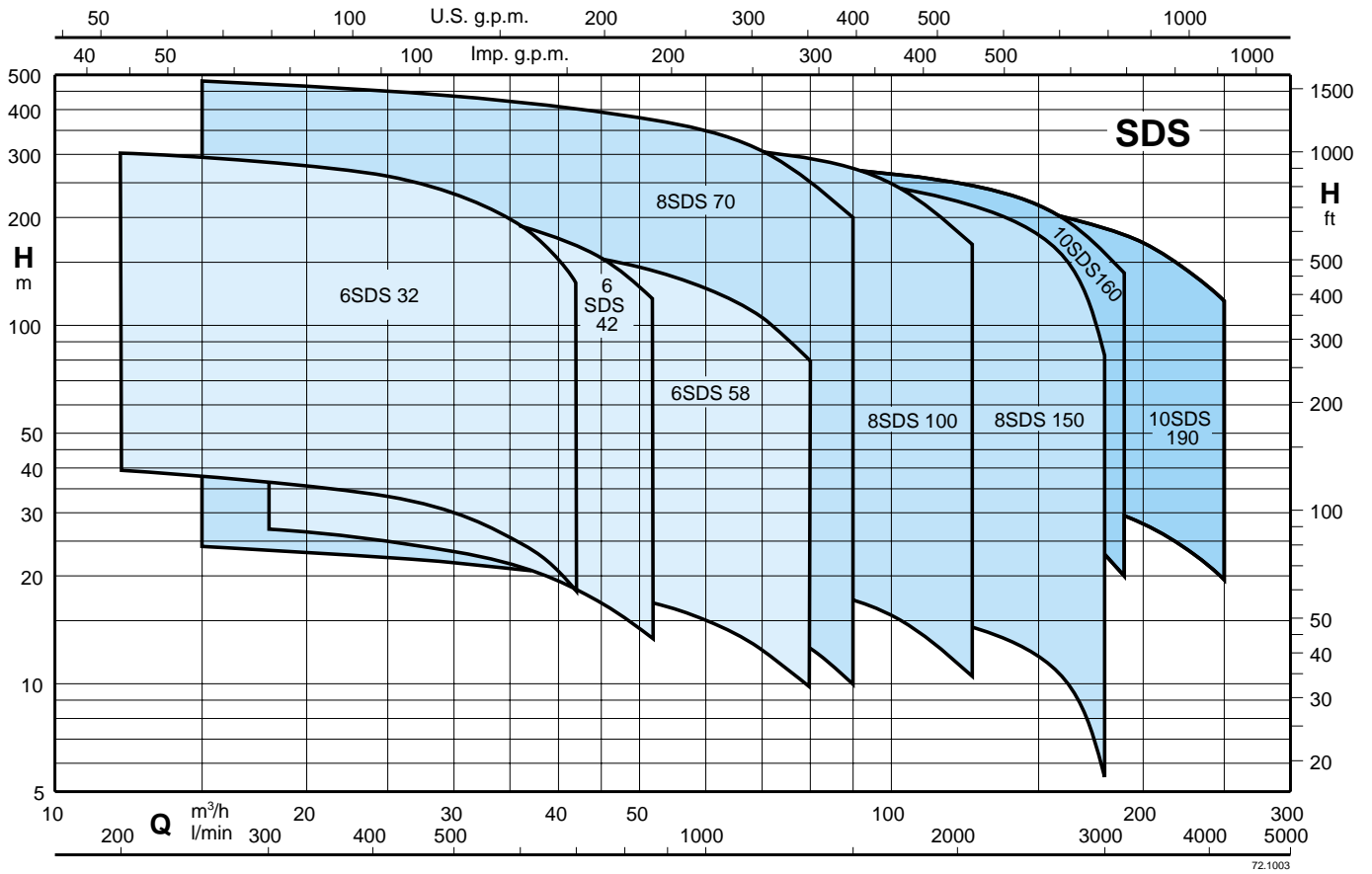
Materials

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 UNI 7013
Diffuser	26.00		
Impeller	28.00		
Wear ring		Rubber (Bronze for 10SDS 190)	
Shaft	64.00	6SDS e 8SDS: Cr steel AISI 416 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 UNI 7013
Bearing bush	12.03-12.30	Rubber	
Strainer	15.50	Cr-Ni steel AISI 304	
Screws		Cr-Ni steel AISI 304	
External frame		Cr-Ni steel AISI 304	Cr-Ni-Mo steel AISI 316
Shaft		Cr-Ni steel AISI 303	Cr-Ni-Mo steel AISI 316
Thrust bearing		Oscillation pads	
Bearing bush		Graphite	
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 51,5 - 60 - 66 kW)	

Designazione

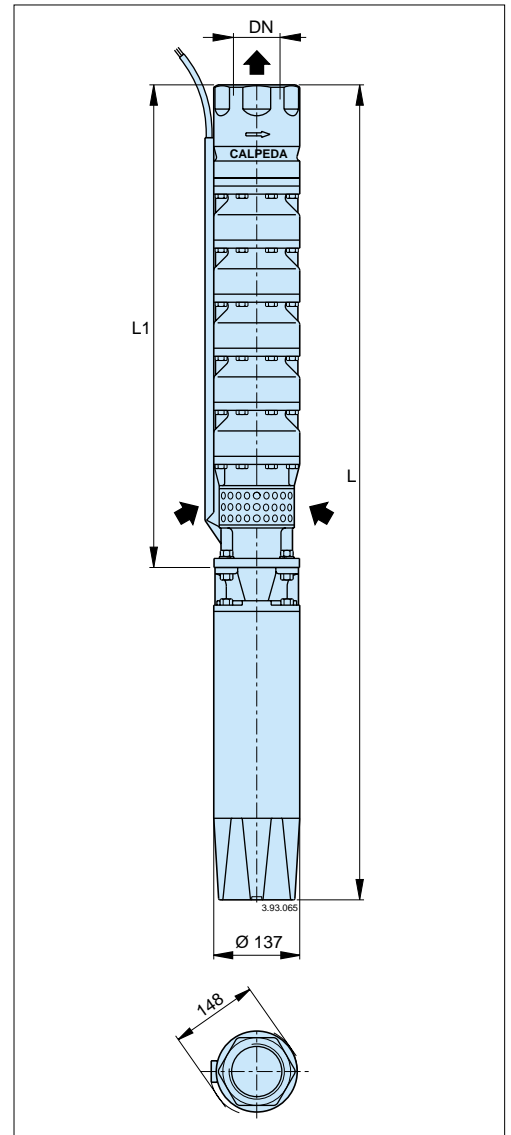
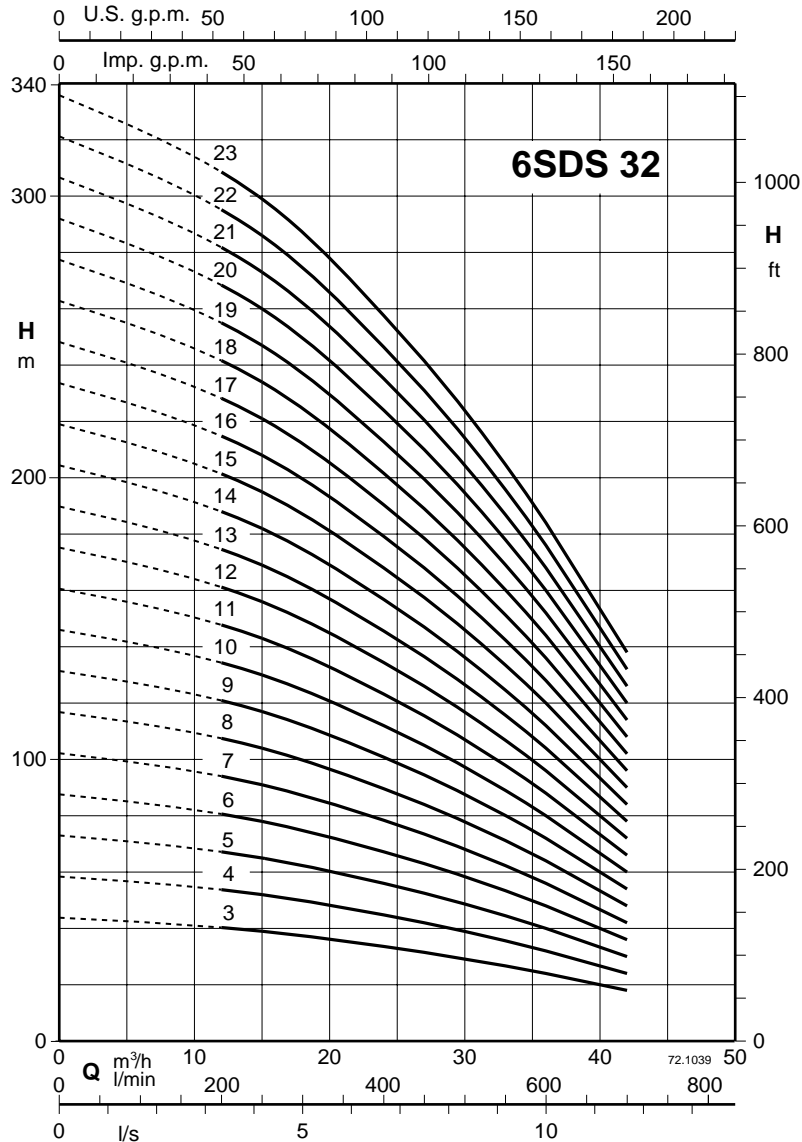
Ø of the well in inches _____ 10 B SDS 190 / 6
 Bronze construction (on request) _____
 Series _____
 Stage identification _____
 Number of stages _____

Coverage chart $n \approx 2900$ rpm



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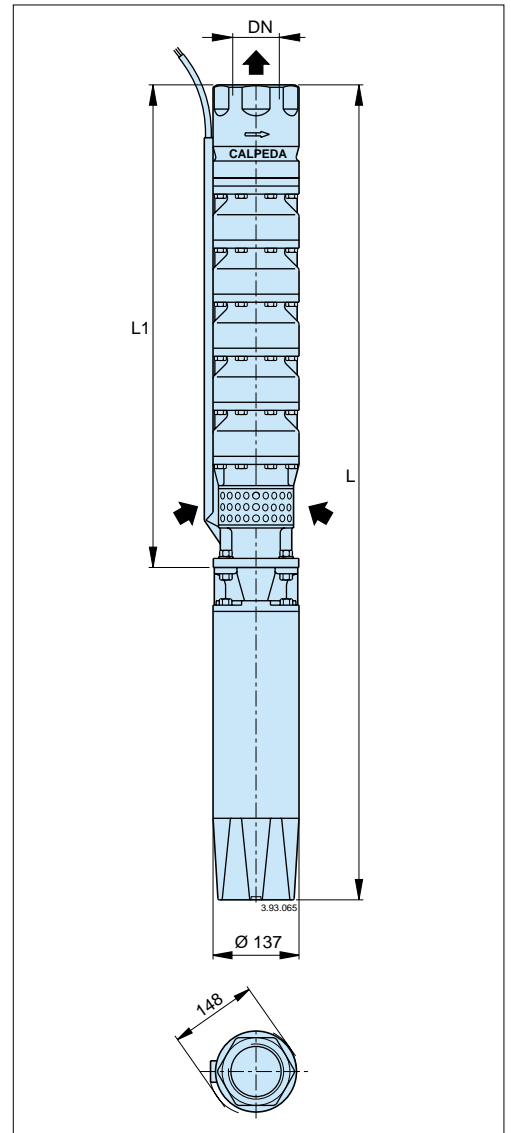
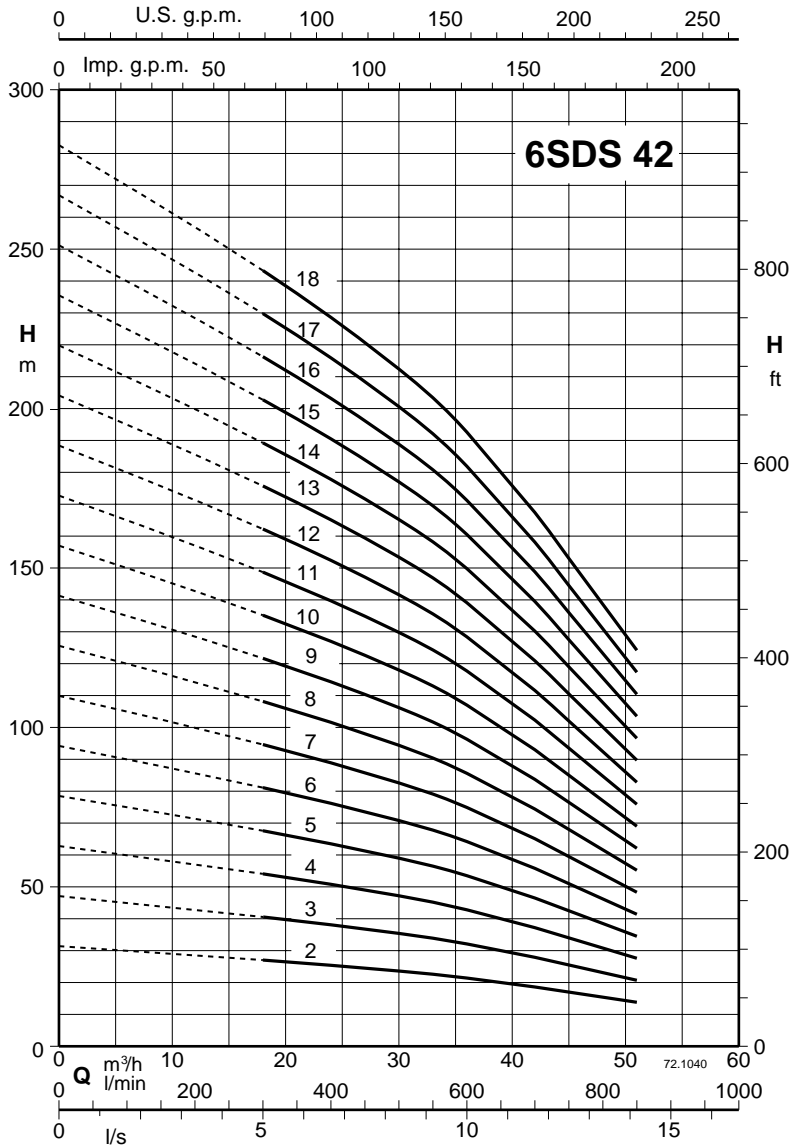
Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3 ~	400 V (380-415) 50 Hz	P2		n ≈ 2900 rpm											
		kW	HP	Q											
				m³/h	12	18	21	24	27	30	33	36	39	42	
	A			l/min	200	300	350	400	450	500	550	600	650	700	
6SDS 32/3	9,3	4	5,5	H m	39	37	35,5	33,5	31,5	30	26,5	24	21	18	
6SDS 32/4	12,5	5,5	7,5		52	49	47	45	42	39,5	35,5	32	28	24	
6SDS 32/5	16	7,5	10		65	61,5	59	56	52,5	49,5	44,5	40	35	30	
6SDS 32/6	16	7,5	10		78	74	71	67	63	59,5	53,5	48	42	36	
6SDS 32/7	20,7	9,2	12,5		92	86	82,5	78,5	73,5	69	62	56	49	42	
6SDS 32/8	23,3	11	15		105	98,5	94,5	89,5	84	79	71	64	56	48	
6SDS 32/9	31,3	15	20		118	111	106	101	94,5	89	80	72	63	54	
6SDS 32/10	31,3	15	20		131	123	118	112	105	99	89	80	70	60	
6SDS 32/11	31,3	15	20		144	135	130	123	115	109	98	88	77	66	
6SDS 32/12	31,3	15	20		157	147	141	134	126	119	107	96	84	72	
6SDS 32/13	38,5	18,5	25		170	160	153	145	136	129	116	104	91	78	
6SDS 32/14	38,5	18,5	25		183	172	165	157	147	138	124	112	98	84	
6SDS 32/15	45,3	22	30		196	184	177	168	157	148	133	120	105	90	
6SDS 32/16	45,3	22	30		209	197	189	179	168	158	142	128	112	96	
6SDS 32/17	45,3	22	30		223	209	200	190	178	168	151	136	119	102	
6SDS 32/18	63,5	30	40		236	221	212	201	189	178	160	144	126	108	
6SDS 32/19	63,5	30	40		246	234	224	213	199	188	169	152	133	114	
6SDS 32/20	63,5	30	40		262	246	236	224	210	198	178	160	140	120	
6SDS 32/21	63,5	30	40		275	258	248	235	220	208	187	168	147	126	
6SDS 32/22	63,5	30	40		288	270	259	246	231	218	196	176	154	132	
6SDS 32/23	63,5	30	40		301	283	271	257	241	228	205	184	161	138	

DN	L	L1	6SDS	B-6SDS
	mm	mm	kg	kg
G 3 ISO 228	1267	686	69	74
	1403	788	76	82
	1536	890	85	93
	1638	992	90	99
	1772	1094	99	109
	1907	1196	106	117
	2075	1298	119	131
	2176	1400	125	138
	2278	1502	129	143
	2380	1604	134	150
	2547	1706	146	163
	2649	1808	151	170
	2816	1910	163	181
	2918	2012	169	188
	3020	2114	174	194
	3252	2216	196	217
3354	2318	201	224	
3456	2420	207	230	
3558	2522	212	236	
3660	2624	217	242	
3762	2726	222	249	

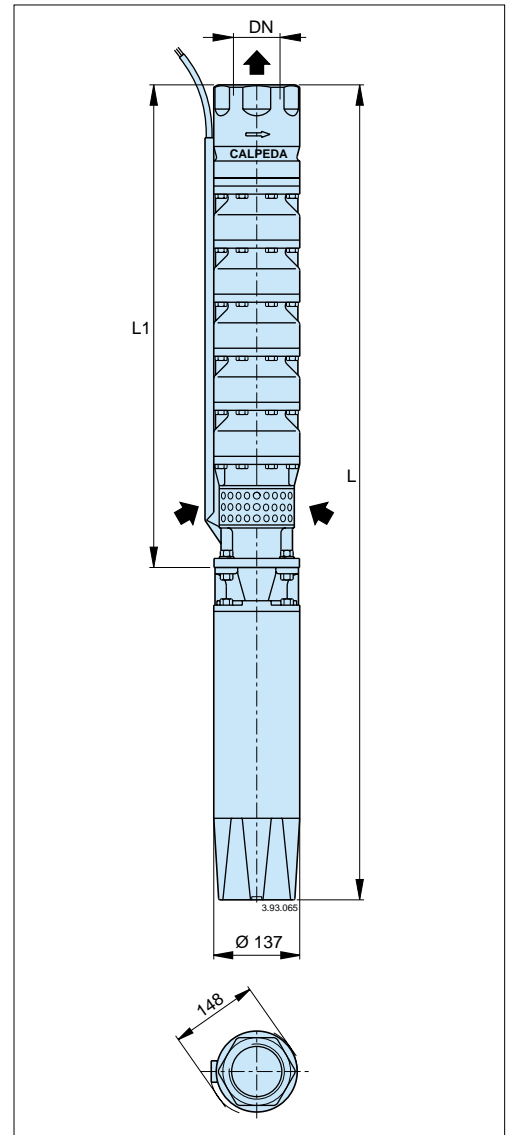
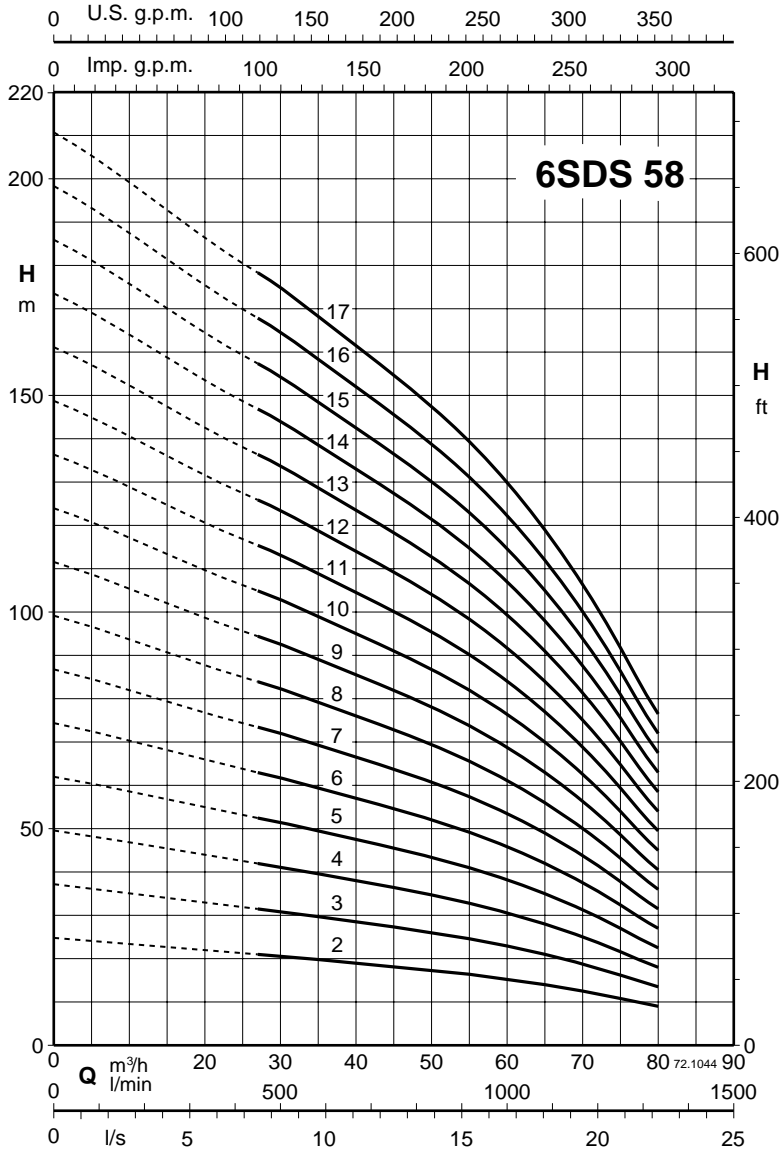
Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3 ~	400 V (380-415) 50 Hz	P2		Q	$n \approx 2900$ rpm												
		kW	HP		m³/h												
					l/min												
	A			H m	18	24	30	33	36	39	42	45	48	51			
6SDS 42/2	9,3	4	5,5		27	25,5	23,5	22,5	21,5	20	18,5	17	15,5	14			
6SDS 42/3	12,5	5,5	7,5		40	38	35,5	34	32	30	28	25,5	23	21			
6SDS 42/4	16	7,5	10		53,5	51	47	45	43	40	37	34	31	27,5			
6SDS 42/5	20,7	9,2	12,5		67	63,5	59	56,5	53,5	50	46,5	42,5	38,5	34,5			
6SDS 42/6	23,3	11	15		80,5	76	71	68	64	60	56	51	46	41,5			
6SDS 42/7	31,3	15	20		94	89	82,5	79	75	70	65	59,5	54	48			
6SDS 42/8	31,3	15	20		107	101	94,5	90,5	85,5	80	74,5	68	61,5	55			
6SDS 42/9	31,3	15	20		120	114	106	102	96	90	84	76,5	69	62			
6SDS 42/10	38,5	18,5	25		134	127	118	113	107	100	93	85	77	69			
6SDS 42/11	38,5	18,5	25		147	140	130	124	118	110	102	93,5	85	76			
6SDS 42/12	45,3	22	30		161	152	141	135	128	120	111	102	92,5	83			
6SDS 42/13	45,3	22	30		174	165	153	147	139	130	121	110	100	90			
6SDS 42/14	63,5	30	40		187	178	165	158	150	140	130	119	108	96,5			
6SDS 42/15	63,5	30	40		201	190	177	169	160	150	139	127	115	103			
6SDS 42/16	63,5	30	40		214	203	189	181	171	160	149	136	123	110			
6SDS 42/17	63,5	30	40		228	216	200	192	182	170	158	144	131	117			
6SDS 42/18	63,5	30	40		241	228	212	203	192	180	167	153	138	124			

DN	L	L1	6SDS	B-6SDS
	mm	mm	kg	kg
G 3 ISO 228	1165	584	64	68
	1301	686	72	77
	1435	788	80	86
	1569	890	87	95
	1703	992	96	105
	1870	1094	107	118
	1972	1196	112	123
	2074	1298	119	131
	2241	1400	131	143
	2343	1502	136	148
	2510	1604	147	162
	2612	1706	152	168
	2844	1808	176	191
	2946	1910	181	198
	3048	2012	186	204
	3150	2114	191	211
3252	2216	196	217	

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



3 ~	400 V (380-415) 50 Hz	P ₂		Q	n ≈ 2900 rpm											
					m³/h											
					27	35	40	45	50	55	60	65	70	75	80	
	A	kW	HP	l/min	450	583	666	750	833	916	1000	1083	1166	1250	1333	
6SDS 58/2	9,3	4	5,5	H m	21	20	19	18	17	16,5	15,5	14	12,5	11	9	
6SDS 58/3	12,5	5,5	7,5		32	30	28,5	27	26	24,5	23	21	18,5	16	13,5	
6SDS 58/4	16	7,5	10		42,5	39,5	38	36	34,5	33	31	28	25	21,5	18	
6SDS 58/5	20,7	9,3	12,5		53	49,5	47,5	45	43	41	38,5	35	31	27	22,5	
6SDS 58/6	23,3	11	15		63,5	59,5	57	54	51,5	49	46	42	37	32,5	27	
6SDS 58/7	31,3	15	20		74	59,5	66,5	63	60	57,5	54	49	43,5	38	31,5	
6SDS 58/8	31,3	15	20		85	79	76	72	69	66	62	56	49,5	43	36	
6SDS 58/9	38,5	18,5	25		95,5	89	85,5	81	77,5	74	69,5	63	56	49	40,5	
6SDS 58/10	38,5	18,5	25		106	99	95	90	86	82	77	70	62	54	45	
6SDS 58/11	45,3	22	30		117	109	104	99	94,5	90	85	77	68	59,5	49,5	
6SDS 58/12	45,3	22	30		127	119	114	108	103	100	94,5	86,5	76,5	66,5	55,5	
6SDS 58/13	63,5	30	40		138	129	123	117	112	107	100	91	80,5	70	58,5	
6SDS 58/14	63,5	30	40		148	139	133	126	120	115	108	98	87	75,5	63	
6SDS 58/15	63,5	30	40		159	148	142	135	129	123	115	105	93	81	67,5	
6SDS 58/16	63,5	30	40		170	158	152	144	138	131	123	112	99	86,5	72	
6SDS 58/17	63,5	30	40		180	168	162	153	146	139	131	119	105	92	76,5	

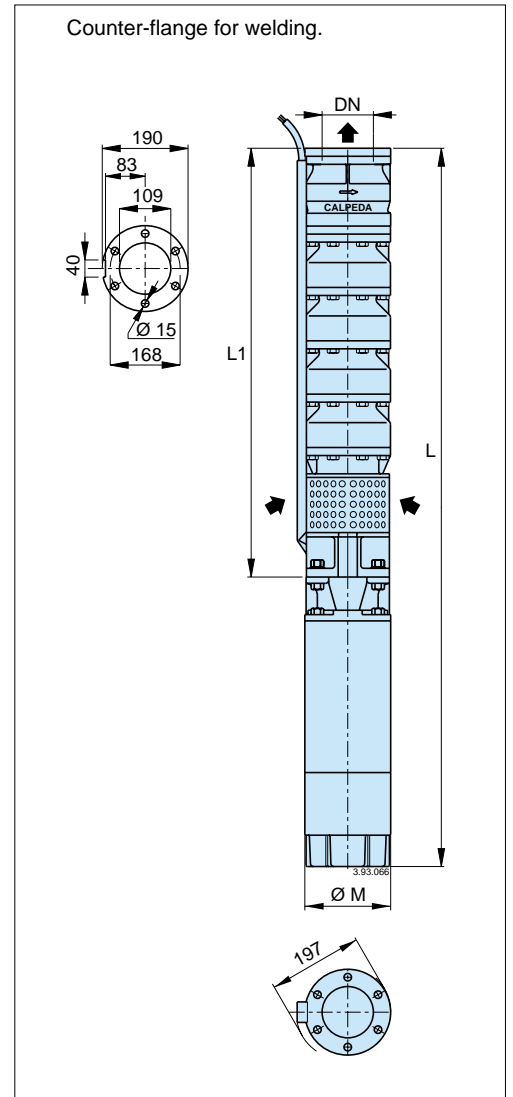
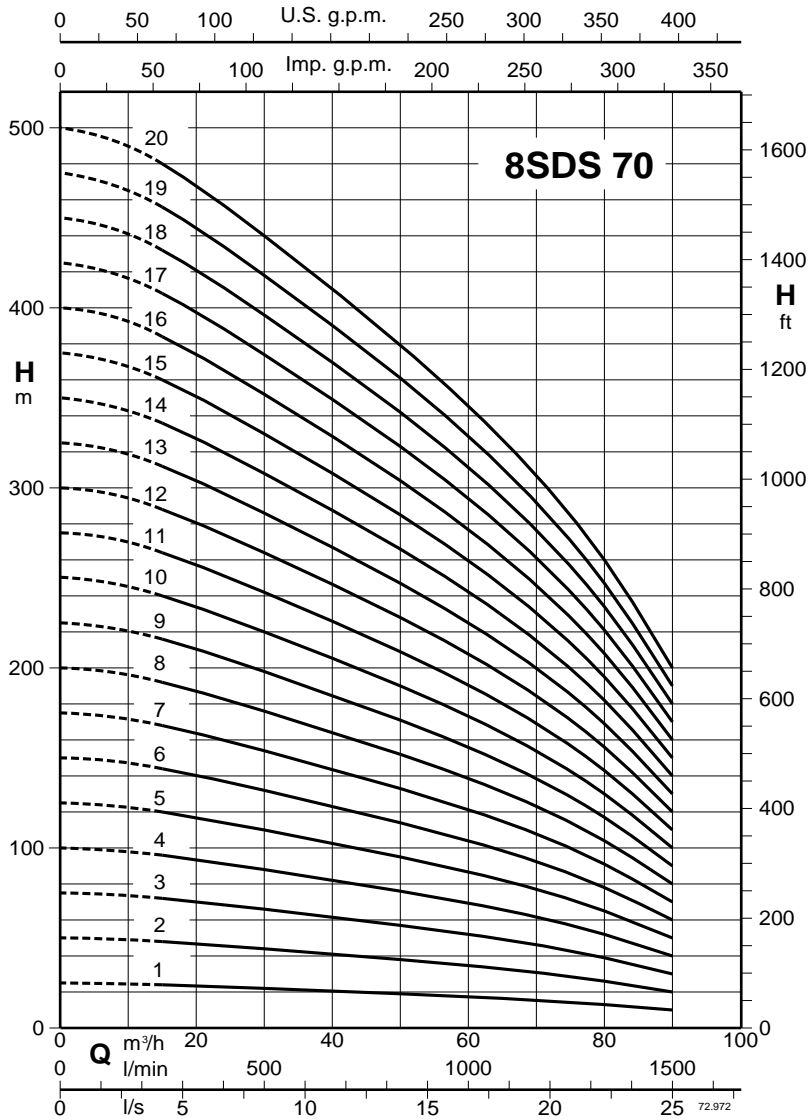
DN	L	L1	6SDS	B-6SDS
	mm	mm	kg	kg
G 4 ISO 228	1165	584	65	68
	1301	686	72	77
	1434	788	81	87
	1569	890	90	97
	1703	992	97	106
	1870	1094	110	120
	1972	1196	116	127
	2139	1298	127	139
	2241	1400	133	146
	2408	1502	145	159
	2510	1604	151	166
	2742	1706	172	189
	2844	1808	178	196
	2946	1910	184	203
3048	2012	189	209	
3150	2114	195	216	

P₂ Rated motor 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 ~	400 V (380-415) 50 Hz	P ₂		Q	n ≈ 2900 rpm										
					m³/h	15	20	30	40	50	60	70	80	90	
						l/min	250	333	500	666	833	1000	1166	1333	1500
	A	kW	HP	H m	24	23	22	20,5	19	17,5	15	13	10		
8SDS 70/1	12,5	5,5	7,5		48	46	44	41	38	35	30	26	20		
8SDS 70/2	20,7	9,3	12,5		72	69	66	61,5	57	52,5	45	39	30		
8SDS 70/3	31,3	15	20		96	92	88	82	76	70	60	52	40		
8SDS 70/4	38,5	18,5	25		120	115	110	102	95	87,5	75	65	50		
8SDS 70/5	45,3	22	30		144	138	132	123	114	105	90	78	60		
8SDS 70/6	63,5	30	40		168	161	154	143	133	122	105	91	70		
8SDS 70/7	63,5	30	40		192	184	176	164	152	140	120	104	80		
8SDS 70/8	74	37	50		216	207	198	184	171	157	135	117	90		
8SDS 70/9	94	45	60		240	230	220	205	190	175	150	130	100		
8SDS 70/10	94	45	60		264	253	242	225	209	192	165	143	110		
8SDS 70/11	108	55	75		288	276	264	246	228	210	180	156	120		
8SDS 70/12	108	55	75		312	299	286	266	247	227	195	169	130		
8SDS 70/13	145	75	100		336	322	308	287	266	245	210	182	140		
8SDS 70/14	145	75	100		360	345	330	307	285	262	225	195	150		
8SDS 70/15	145	75	100		384	368	352	328	304	280	240	208	160		
8SDS 70/16	145	75	100		408	391	374	348	323	297	255	221	170		
8SDS 70/17	190	93	125		432	414	396	369	342	315	270	234	180		
8SDS 70/18	190	93	125		456	437	418	389	361	332	285	247	190		
8SDS 70/19	190	93	125		480	460	440	410	380	350	300	260	200		
8SDS 70/20	190	93	125												

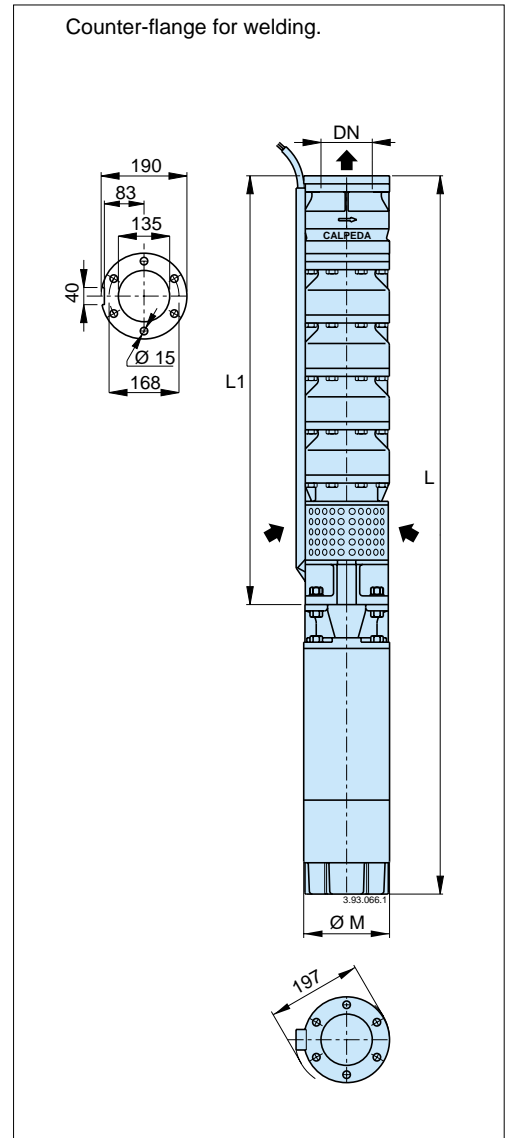
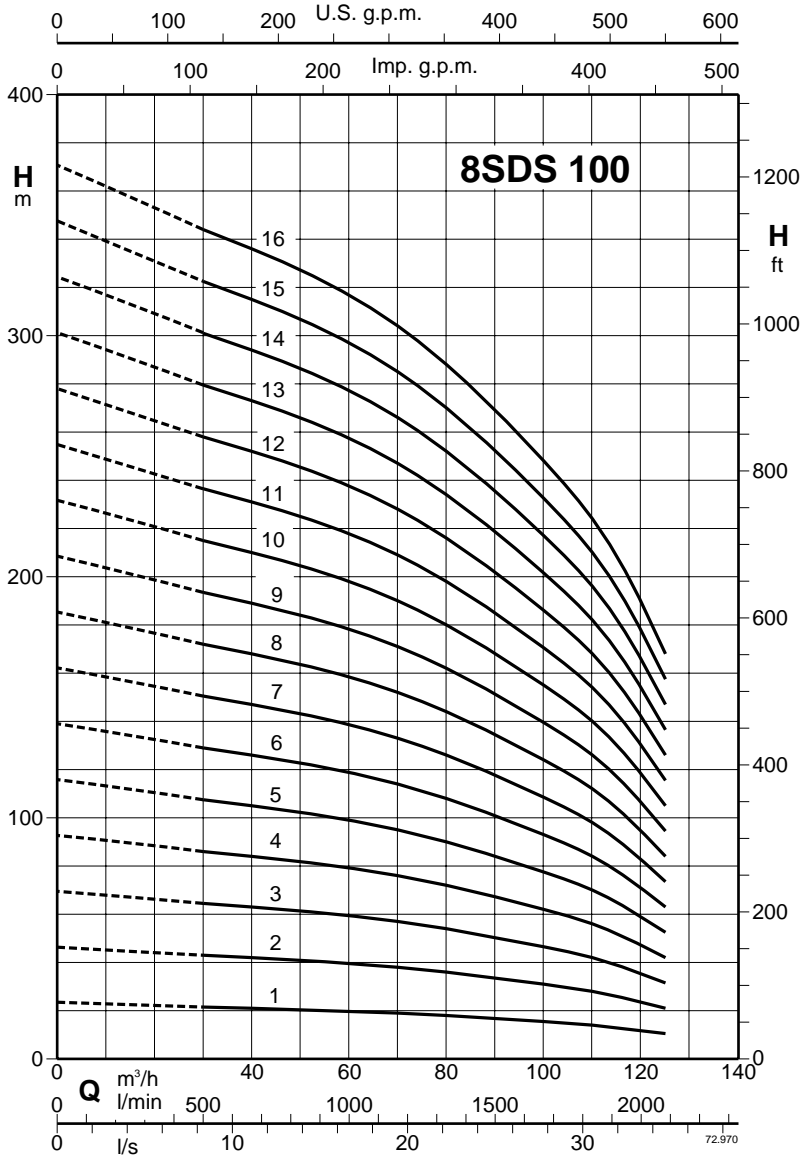
DN	Ø M	L	L1	8SDS	B-8SDS		
	mm	mm	mm	kg	kg		
100	137 6"	1311	697	72,5	77		
		1507	829	90	95		
		1737	961	110	117		
		1935	1093	127	135		
		2132	1225	145	154		
		2393	1357	171	182		
		2525	1489	182	195		
		3026	1621	223	237		
		3311	1753	249	265		
		3443	1885	260	277		
		196 8"	137 6"	3207	2017	293	332
				3339	2149	304	345
				3774	2281	428	449
				3906	2413	439	461
4038	2545			450	473		
4170	2677			461	486		
4302	2809			472	498		
4688	2941			508	536		
4820	3073			519	549		
4952	3205			530	561		

P₂ Rated motor 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 ~	400 V (380-415) 50 Hz	P ₂		Q	n ≈ 2900 rpm											
		kW	HP		m³/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	12,5	5,5	7,5	H m	21,5	21	20,5	20	19	18	17	15,5	14	10,5		
8SDS 100/2	23,3	11	15		43	42	41	40	38	36	34	31	28	21		
8SDS 100/3	38,5	18,5	25		64,5	63	61,5	60	57	54	51	46,5	42	31,5		
8SDS 100/4	45,3	22	30		86	84	82	80	76	72	68	62	56	42		
8SDS 100/5	63,5	30	40		107	105	102	100	95	90	85	77,5	70	52,5		
8SDS 100/6	74	37	50		129	126	123	120	114	108	102	93	84	63		
8SDS 100/7	94	45	60		150	147	143	140	133	126	119	108	98	73,5		
8SDS 100/8	94	45	60		172	168	164	160	152	144	136	124	112	84		
8SDS 100/9	108	55	75		193	189	184	180	171	162	153	139	126	94,5		
8SDS 100/10	108	55	75		215	210	205	200	190	180	170	155	140	105		
8SDS 100/11	145	75	100		236	231	225	220	209	198	187	170	154	115		
8SDS 100/12	145	75	100		258	252	246	240	228	216	204	186	168	126		
8SDS 100/13	145	75	100		279	273	266	260	247	234	221	201	182	136		
8SDS 100/14	190	93	125		301	294	287	280	266	252	238	217	196	147		
8SDS 100/15	190	93	125		322	315	307	300	285	270	255	232	210	157		
8SDS 100/16	190	93	125		344	336	328	320	304	288	272	248	224	168		

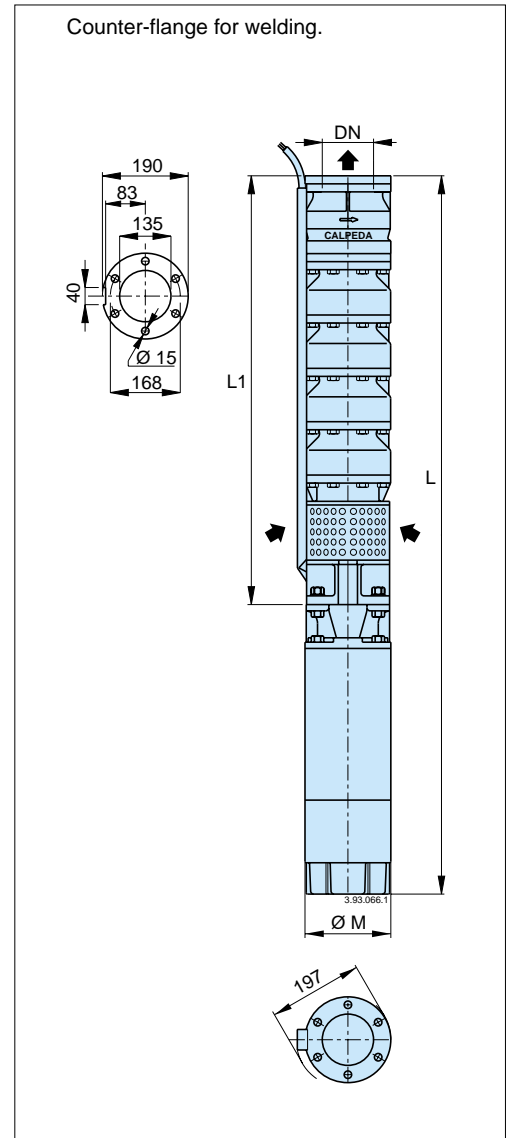
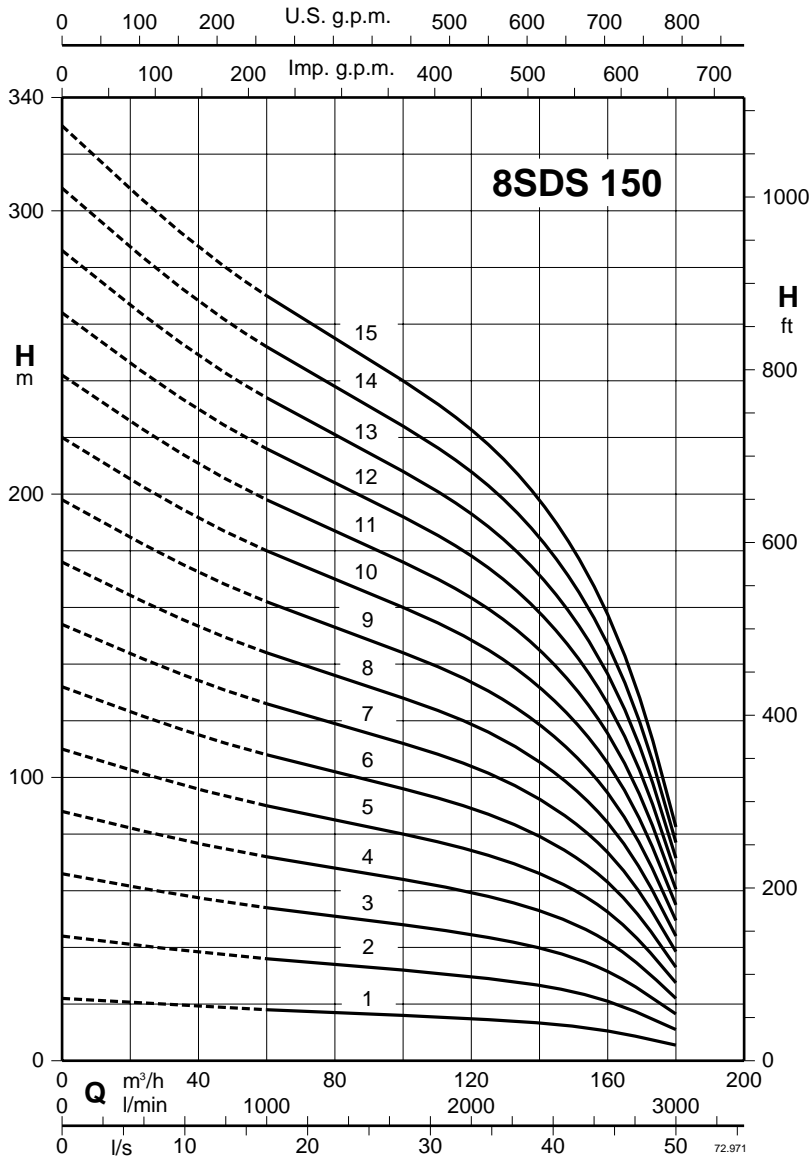
DN	Ø M	L	L1	8SDS	B-8SDS		
mm	mm	mm	mm	kg	kg		
125	137 6"	1311	697	81	86		
		1540	829	100	107		
		1803	961	123	131		
		2000	1093	141	150		
		2261	1225	167	178		
		2762	1357	208	220		
		3047	1489	233	247		
		3179	1621	244	258		
		196 8"	196 8"	2925	1753	297	313
				3075	1885	308	325
3510	2017			410	429		
3642	2149			420	441		
3774	2281			431	452		
4160	2413			467	490		
		4292	2545	478	502		
		4424	2677	488	514		

P₂ Rated motor power output

H Total head in m

Tolerances according to ISO 9906, annex A

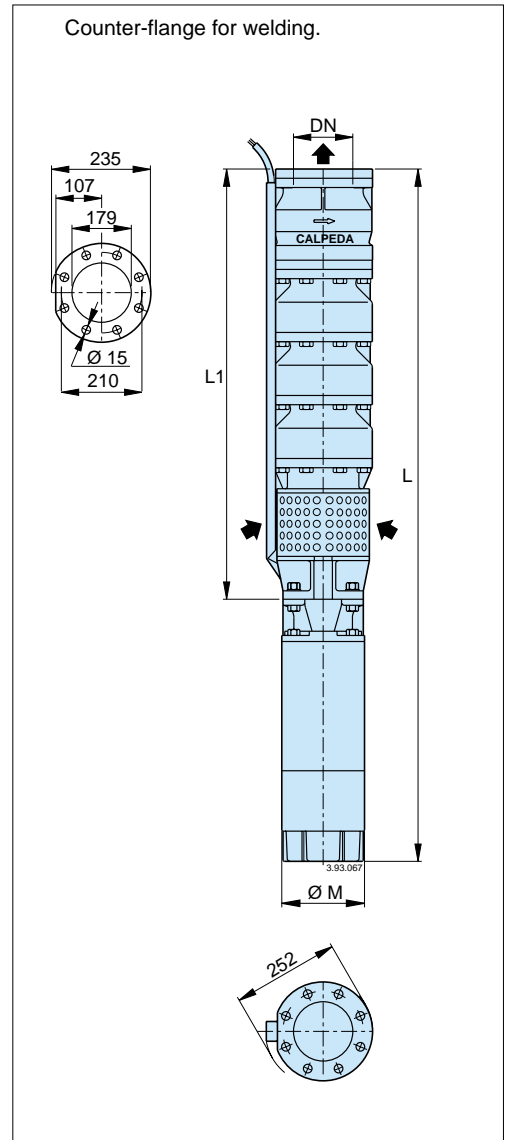
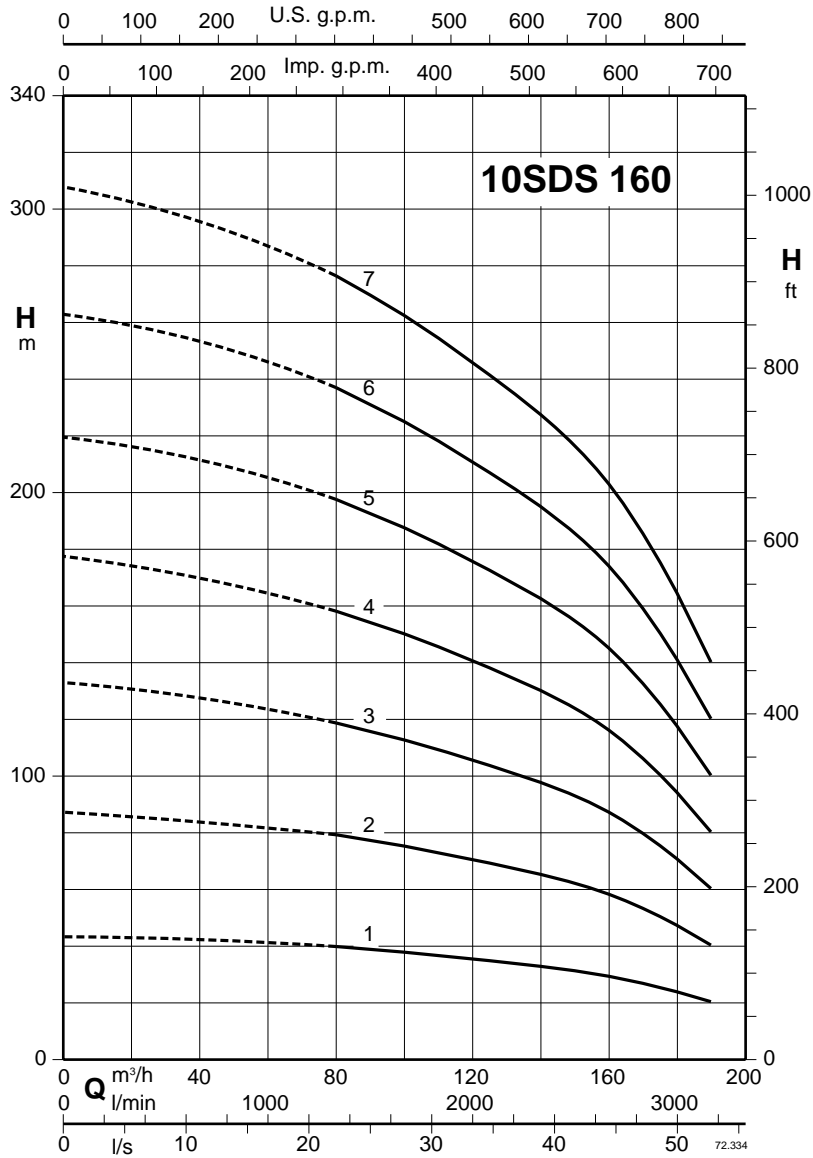
Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3 ~	400 V (380-415) 50 Hz	P ₂		Q	n ≈ 2900 rpm											
					m³/h											
					60	70	80	90	100	110	125	140	150	160	180	
	A	kW	HP	m/min	1000	1166	1333	1500	1666	1833	2083	2333	2500	2666	3000	
8SDS 150/1	16	7,5	10		18	17,5	17	16,5	16	15,5	14,5	13	11,5	10,5	5,5	
8SDS 150/2	31,3	15	20		36	35	34	33	32	31	29	26	23	21	11	
8SDS 150/3	45,3	22	30		54	52,5	51	49,5	48	46,5	43,5	39	34,5	31,5	16,5	
8SDS 150/4	63,5	30	40		72	70	68	66	64	62	58	52	46	42	22	
8SDS 150/5	74	37	50		90	87,5	85	82,5	80	77,5	72,5	65	57,5	52,5	27,5	
8SDS 150/6	94	45	60		108	105	102	99	96	93	87	78	69	63	33	
8SDS 150/7	108	55	75		126	122	119	115	112	108	101	91	80,5	73,5	38,5	
8SDS 150/8	145	75	100		144	140	136	132	128	124	116	104	92	84	44	
8SDS 150/9	145	75	100		162	157	153	148	144	139	130	117	103	94,5	49,5	
8SDS 150/10	145	75	100		180	175	170	165	160	155	145	130	115	105	55	
8SDS 150/11	190	93	125		198	192	187	181	176	170	159	143	126	115	60,5	
8SDS 150/12	190	93	125		216	210	204	198	192	186	174	156	138	126	66	
8SDS 150/13	222	110	150		234	227	221	214	208	201	188	169	149	136	71,5	
8SDS 150/14	222	110	150		252	245	238	231	224	217	203	182	161	147	77	
8SDS 150/15	222	110	150		270	262	255	247	240	232	217	195	172	157	82,5	

DN	Ø M	L	L1	8SDS	B-8SDS
	mm	mm	mm	kg	kg
125	137 6"	1343	697	83	88
		1605	829	105	112
		1868	961	128	136
		2129	1093	152	163
		2630	1225	194	204
125	196 8"	2915	1357	219	231
		2679	1489	272	285
		3114	1621	373	388
		3246	1753	384	400
		3378	1885	393	411
		3764	2017	429	448
		3896	2149	439	460
		4257	2281	491	513
		4389	2413	501	524
		4521	2545	511	535

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



3 ~	400 V (380-415) 50 Hz	P ₂		Q	$n \approx 2900$ rpm											
					m³/h											
					80	90	100	110	125	140	150	160	170	180	190	
	A	kW	HP	m/min	1333	1500	1666	1833	2083	2333	2500	2666	2833	3000	3166	
10SDS 160/1	38,5	18,5	25	H m	39,5	38	37,5	36	34,5	32,5	31	29	26,5	22	20	
10SDS 160/2	74	37	50		78,5	76,5	74,5	72,5	69	65	62	58,5	53,5	44	40	
10SDS 160/3	108	55	75		118	114	112	108	104	98	92,5	87,5	80	66,5	60	
10SDS 160/4	145	75	100		157	153	149	145	138	130	123	117	107	88,5	80	
10SDS 160/5	190	93	125		196	191	186	181	173	163	154	146	134	111	100	
10SDS 160/6	222	110	150		236	229	224	217	207	195	185	175	160	133	120	
10SDS 160/7	252	130	175		275	267	261	253	242	228	216	204	187	155	140	

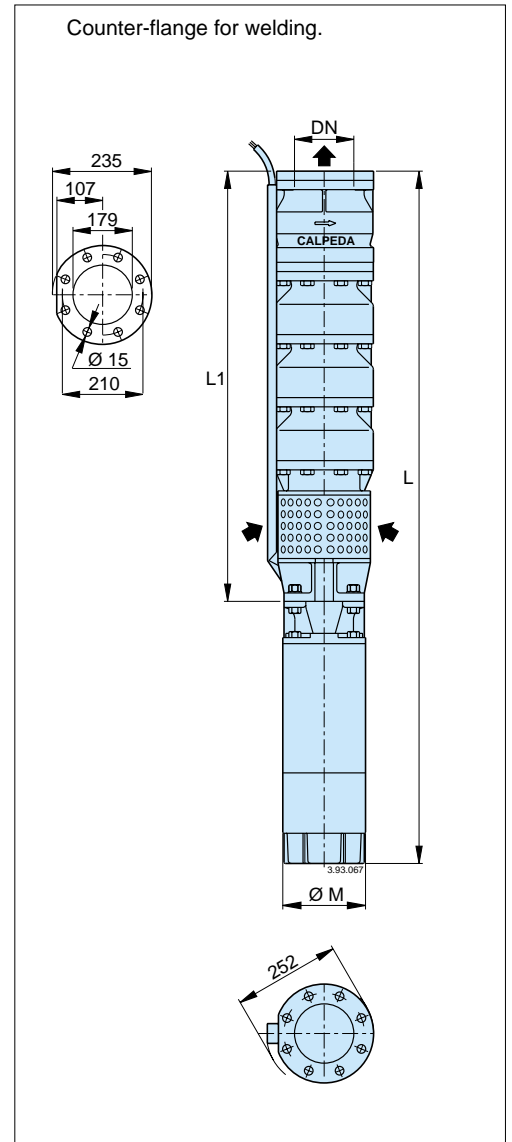
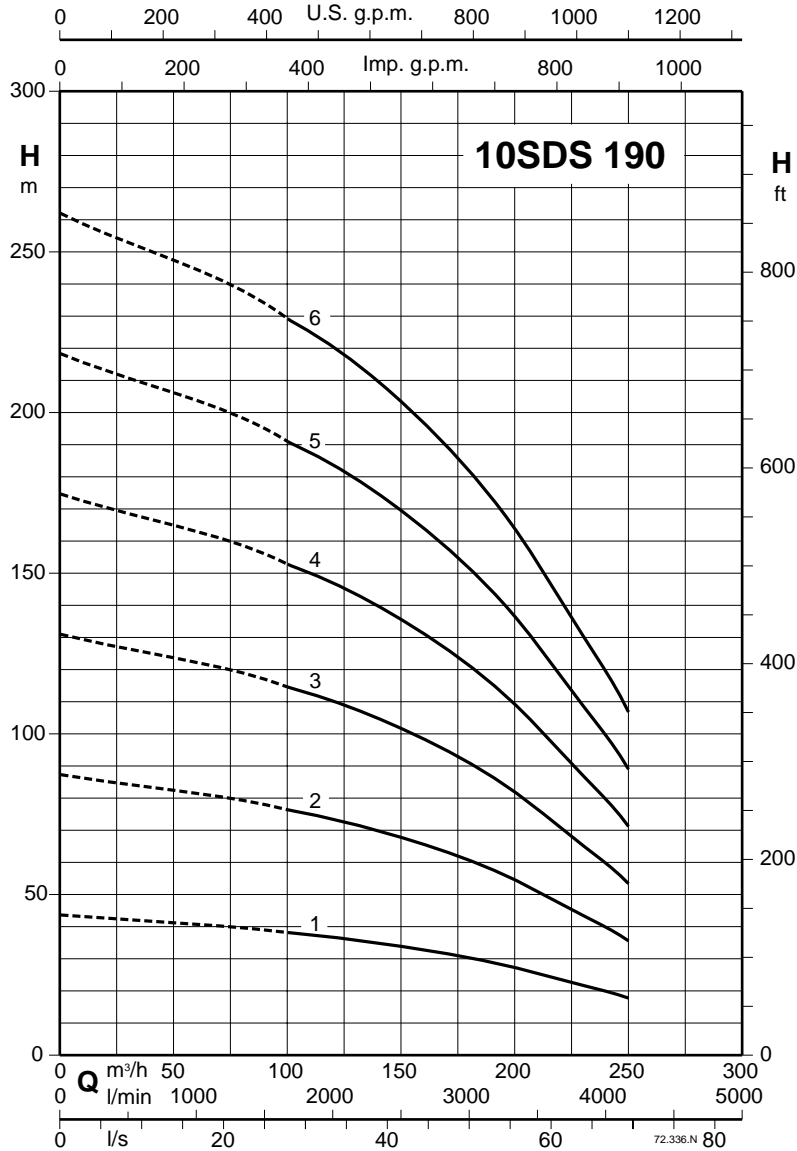
DN	Ø M	L	L1	10SDS	B-10SDS
	mm	mm	mm	kg	kg
175	6"	1707	865	141	156
		2440	1035	218	238
	8"	2495	1205	323	345
		2868	1375	417	445
		3292	1545	468	500
		3690	1715	533	570
		4064	1885	604	646

P₂ Rated motor 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 ~	400 V (380-415) 50 Hz	P ₂		Q	n ≈ 2900 rpm										
					m³/h										
					100	120	140	160	180	200	220	230	240	250	
	A	kW	HP	l/min	1666	2000	2333	2666	3000	3333	3666	3833	4000	4166	
				H m	38	37	35	33	30	27	24	22	20	18	
10SDS 190/1	45,3	22	30		76	73	70	66	61	55	47	44	40	36	
10SDS 190/2	94	45	60		115	110	105	98	91	82	71	65	59	53	
10SDS 190/3	145	75	100		153	147	140	131	121	109	95	87	79	71	
10SDS 190/4	190	92	125		191	183	175	164	152	137	119	109	99	89	
10SDS 190/5	222	110	150		229	220	210	197	182	164	142	131	119	107	
10SDS 190/6	252	130	175												

DN	Ø M	L	L1	10SDS	B-10SDS
	mm	mm	mm	kg	kg
175	137	1772	865	149	163
		2593	1035	234	254
	196	2698	1205	396	418
		3122	1375	446	473
		3520	1545	512	544
		3894	1715	583	620

Electric control boards

M COMP

For single-phase motor.

TYPE	Capacitor Vc 450	Protection A	Motor 230V - 1~ kW
M COMP 4-16	16 µf	4,5	0,37
M COMP 5-20	20 µf	5	0,55
M COMP 7-30	30 µf	7	0,75
M COMP 10-40	40 µf	10	1,1
M COMP 12-50	50 µf	12	1,5
M COMP 18-70	70 µf	18	2,2

T COMP

For three-phase motor with **direct** starting up.

TYPE	Protection A	Motor 3~	
		230V kW	400V kW
T COMP 8	1÷8	0,37÷1,5	0,5÷2,2
T COMP 10	7÷10	---	3-3,7
T COMP 12	9÷12	2,2	4
T COMP 16	11÷16	3	5,5
T COMP 20	14÷20	3,7-4	7,5

QT1 DF

For three-phase motor with **direct** starting up. Fuse protection.

TYPE	Motor 3~ 400V kW
QT1DF 9,2	9,2
QT1DF 11	11
QT1DF 15	15
QT1DF 22	18,5-22

QT1 ST

For three-phase motor. **Star/delta** starting.

TYPE	Motor 3~ 400V kW
QT1ST 5,5	5,5
QT1ST 7,5	7,5
QT1ST 11	9,2-11
QT1ST 15	15
QT1ST 22	18,5-22
QT1ST 30	30
QT1ST 37	37
QT1ST 45	45
QT1ST 55	55
QT1ST 75	75
QT1ST 92	92
QT1ST 110	110
QT1ST 130	130

QT1 AT

For three-phase motor. **Autotransformer** starting.

TYPE	Motor 3~ 400V kW
QT1AT 5,5	5,5
QT1AT 7,5	7,5
QT1AT 9,2	9,2
QT1AT 11	11
QT1AT 15	15
QT1AT 18	18,5
QT1AT 22	22
QT1AT 30	30
QT1AT 37	37
QT1AT 45	45
QT1AT 55	55
QT1AT 75	75
QT1AT 92	92
QT1AT 110	110
QT1AT 130	130

QT1 IS

For three-phase motor. **Impedance** starting.

TYPE	Motor 3~ 400V kW
QT1IS 5,5	5,5
QT1IS 7,5	7,5
QT1IS 9,2	9,2
QT1IS 11	11
QT1IS 15	15
QT1IS 18	18,5
QT1IS 22	22
QT1IS 30	30
QT1IS 37	37
QT1IS 45	45
QT1IS 55	55
QT1IS 75	75
QT1IS 92	92
QT1IS 110	110
QT1IS 130	130

QT1 SS

For three-phase motor. Start-stop with **Soft Start**.

TYPE	Motor 3~ 400V kW
QT1SS 7,5	7,5
QT1SS 15	9,2-11-15
QT1SS 22	18,5-22
QT1SS 30	30
QT1SS 37	37
QT1SS 45	45
QT1SS 55	55
QT1SS 75	75
QT1SS 92	92
QT1SS 110	110
QT1SS 130	130

QT1 VF

For three-phase motor. With **inverter** control.

TYPE	Max A	Motor 3~ 400V kW
QT1VF 5,5	13	4-5,5
QT1VF 7,5	16	7,5
QT1VF 11	24	9,2-11
QT1VF 15	32	15
QT1VF 18	37	18,5
QT1VF 22	44	22
QT1VF 30	61	30
QT1VF 37	73	37
QT1VF 45	90	45
QT1VF 55	106	55
QT1VF 75	147	75
QT1VF 92	177	92
QT1VF 110	212	110
QT1VF 130	260	130

Maximum length of electric cables

220 Volt - 50 Hz - 1 ~					
MOTOR kW	1 four-wires cable 4 xmm ²				
	1,5	2,5	4	6	10
cables max m					
0,37	114	191	305		
0,55	77	128	205	308	
0,75	56	94	151	226	376
1,1	38	64	103	154	257
1,5		47	75	113	188
2,2		32	51	77	128

Voltage drop 3%.
Maximum room temperature + 30 °C.

Direct-starting

220 Volt - 50 Hz - 3 ~															
MOTOR kW	1 four-wires cable 4 xmm ²						4 cables 1 xmm ²								
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240
cables max m															
0,37	261														
0,55	175	292													
0,75	129	214	343												
1,1	88	146	234	351											
1,5	64	107	172	257											
2,2	44	73	117	176	293										
3	32	54	86	129	215	344									
3,7-4		40	64	97	161	258									
5,5			47	70	117	188	294								
7,5			34	52	86	138	216	302							
9,2				42	70	113	176	247	353						
11					59	94	148	207	295						
15						69	109	152	217	304					
18,5						57	88	124	177	248	336				
22							75	104	149	209	284	358			
30								77	110	155	210	265	331		
37									90	126	171	216	271	334	
45									75	105	142	179	224	276	359
55										86	116	146	183	226	294
75											88	111	138	171	222

400 Volt - 50 Hz - 3 ~															
MOTOR kW	1 four-wires cable 4 xmm ²						4 cables 1 xmm ²								
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240
cables max m															
0,37	777														
0,55	523														
0,75	384														
1,1	262														
1,5	192	320													
2,2	131	218	349												
3	96	160	256	385											
3,7-4	72	120	192	289											
5,5	52	88	140	210	351										
7,5		64	103	154	258										
9,2		52	84	126	210	337									
11			70	106	176	282									
15				78	130	208	324								
18,5				63	106	169	264	370							
22					89	143	223	312							
30						105	165	231	330						
37							134	188	269	377					
45								111	156	223	312				
55										182	255	357			
75										138	193	262	331		
92										114	160	217	274	342	
110											136	184	233	291	359
130												157	198	248	306 396

Star-delta starting

220 Volt - 50 Hz - 3 ~ Y/Δ													
MOTOR kW	2 four-wires cables 4 xmm ²					7 cables 1 xmm ²							
	4	6	10	16	25	35	50	70	95	120	150	185	240
cables max m													
7,5	52	78	129	207	324								
9,2		63	106	169	264	370							
11		53	89	142	221	310	443						
15			65	104	163	228	326						
18,5			53	85	133	186	265	372					
22				72	112	157	224	314	426				
30				53	83	116	166	232	315	398			
37					68	95	135	189	257	325	406		
45					56	78	112	157	213	269	336	415	
55							92	128	174	220	275	340	
75							69	97	132	166	208	256	332

380 Volt - 50 Hz - 3 ~ Y/Δ															
MOTOR kW	2 four-wires cables 4 xmm ²						7 cables 1 xmm ²								
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240
cables max m															
7,5	58	96	154	232	386										
9,2	47	79	126	189	316										
11		66	106	159	264	423									
15		49	78	117	195	311	487								
18,5			63	95	158	253	396								
22			53	80	134	214	334	468							
30				59	99	158	247	346							
37					81	129	202	282	404						
45					67	107	167	234	334	468					
55						87	136	191	273	383	536				
75							103	145	207	289	393	496			
92								120	171	240	325	411	514		
110									146	204	277	350	437	539	
130									124	173	235	297	372	458	595

Cables connection kit

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

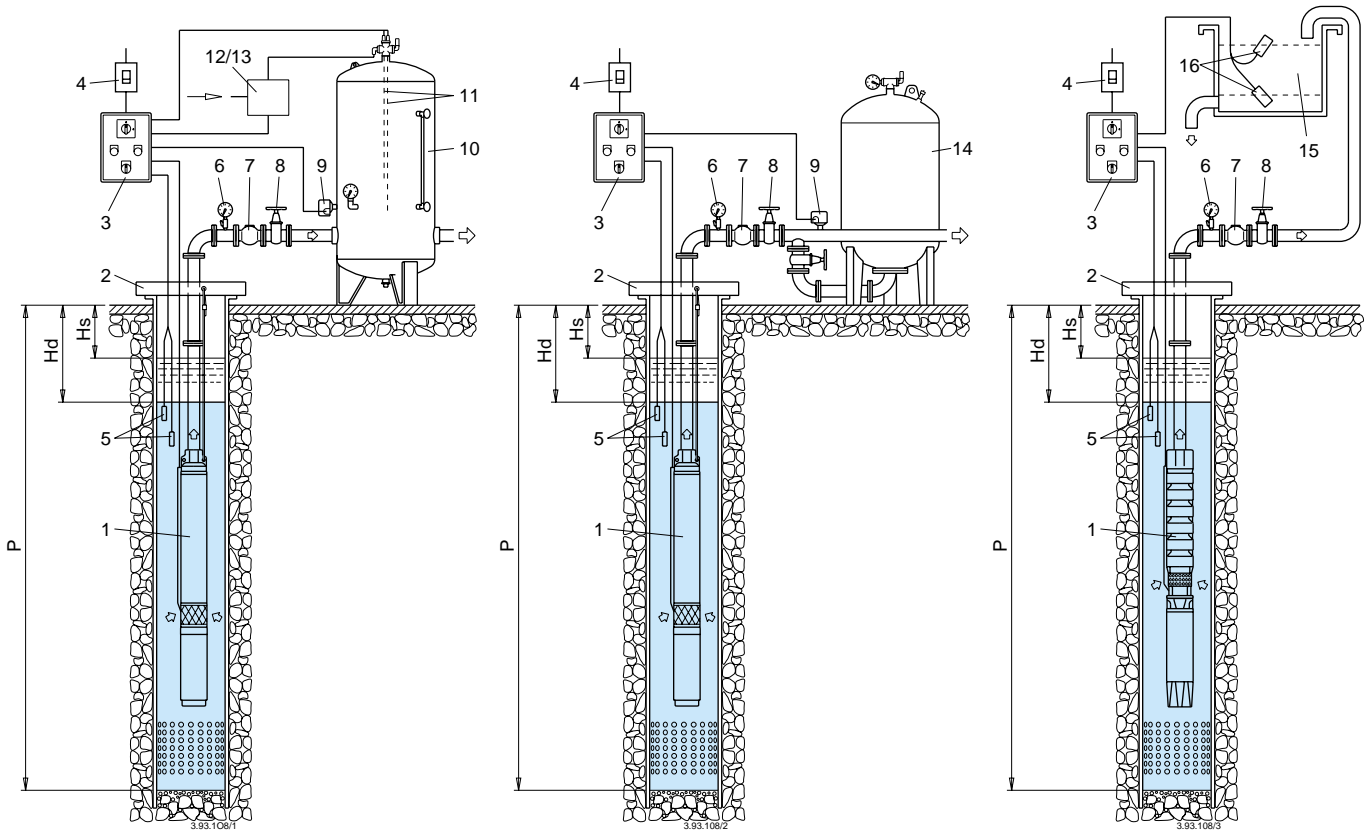
The kit includes:

- 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