



The electropumps 4SDX 1,2,3,5 series comply with the European Regulation no. 547/2012.

Materials

Pump

Components	Materials
External jacket	Cr-Ni steel AISI 304
Suction lantern	Cr-Ni steel AISI 304
Upper cover	Cr-Ni steel AISI 304
Delivery casing	Cr-Ni steel AISI 304
Strainer, Valve set	Cr-Ni steel AISI 304
O-ring valve	NBR
Shaft	Cr-Ni steel AISI 431
Coupling set	Cr-Ni steel AISI 304
Diffuser	Cr-Ni steel AISI 304
Stage casing	Cr-Ni steel AISI 304
Impeller	Cr-Ni steel AISI 304
Wear ring	NBR
Bearing bush	NBR
Cable guard, Screws	Cr-Ni steel AISI 304

Motor 4MW

Components	Materials
External frame	Cr-Ni steel AISI 304
Motor flange	Cr-Ni steel AISI 304
Shaft	Cr-Ni-Mo steel AISI 316
Thrust bearing	Oil wetted ball type
Bearing bush	By water mixed with Propylene Glycol

Construction

Submersible borehole pumps for 4" wells (DN 100 mm), with external jacket and stages in stainless steel AISI 304.

Impellers

Radial impellers: 4SDX 1-2-3-5-8

Mixed flow impellers: 4SDX 12

Connection: screwed connection Rp 1 1/4, Rp 1 1/2, Rp 2 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

Max. sand quantity into the water: 50 g/m³ (300 g/m³ high percentage of solids and sand)..

Continuous duty.

Rewindable motor 4MW 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

- three-phase 230 V;

Voltage tolerance : +6% / -10%.

Insulation class F.

Protection IP 68.

Continuous duty.

Motor suitable operation with frequency converter.

Operating conditions motor

Motor	Max. Liquid temperature	Cooling: minimum flow velocity	Max. starts per hour	Motor P2
4MW	35 °C	0,08 m/s	30	all types

Special features on request

- Other voltages.

- 60 Hz frequency.

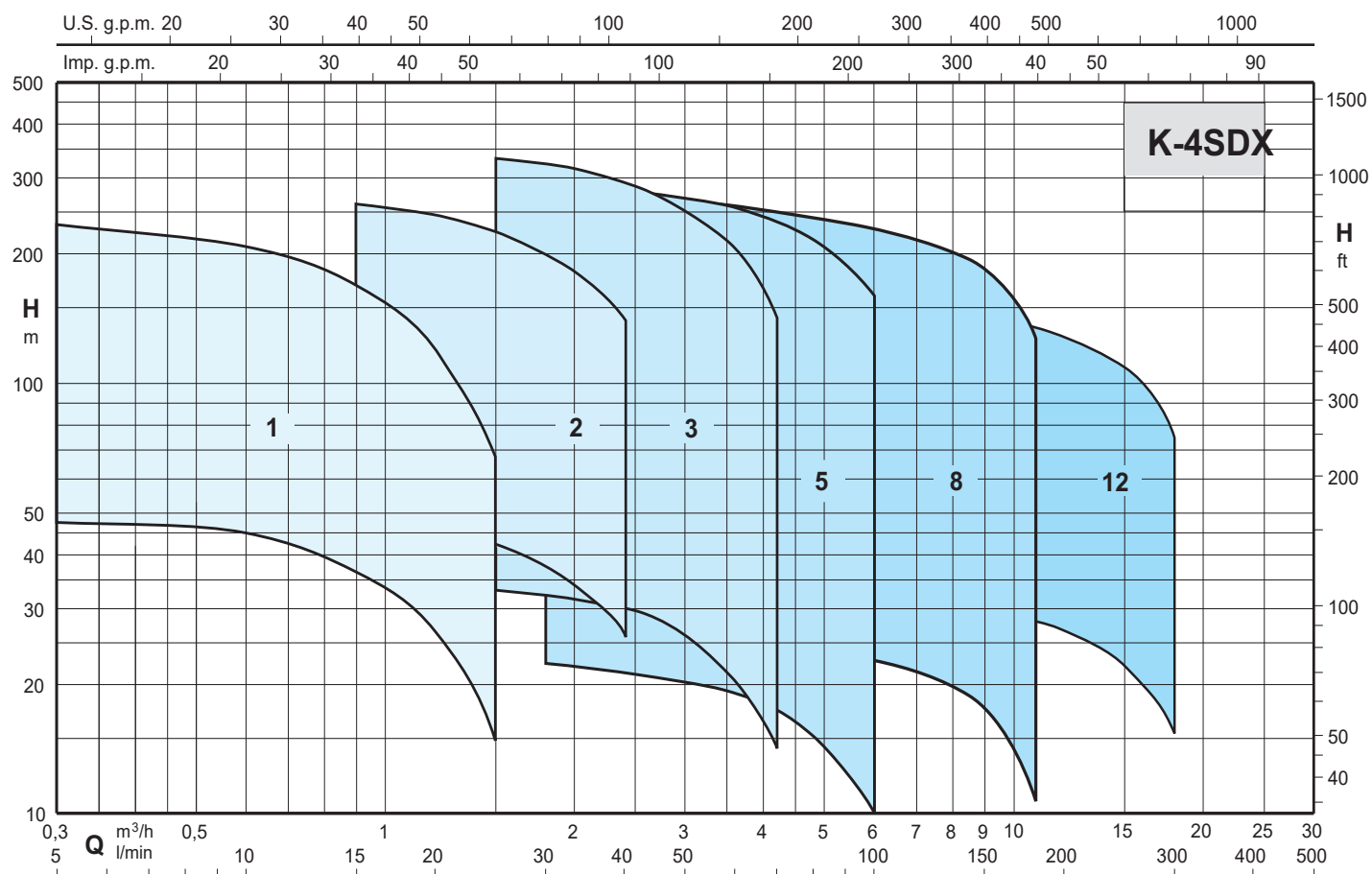
- Other temperatures.

Designation

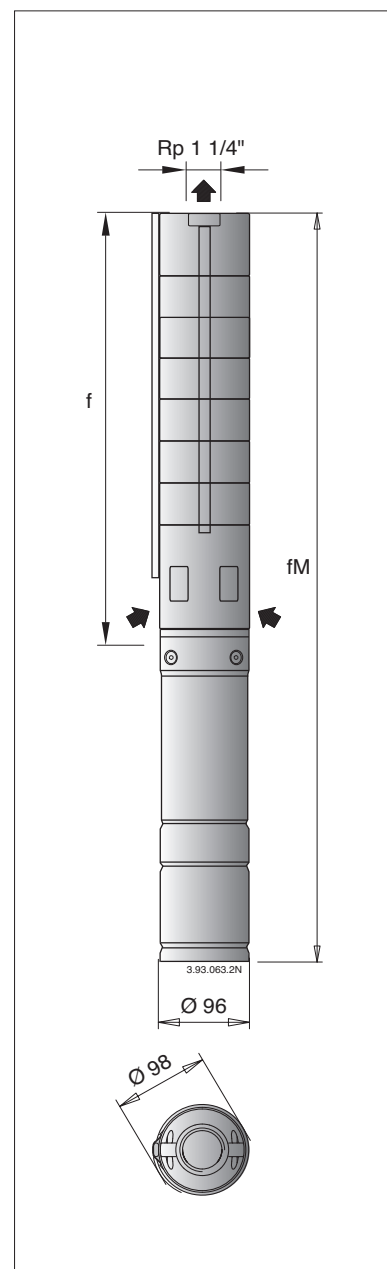
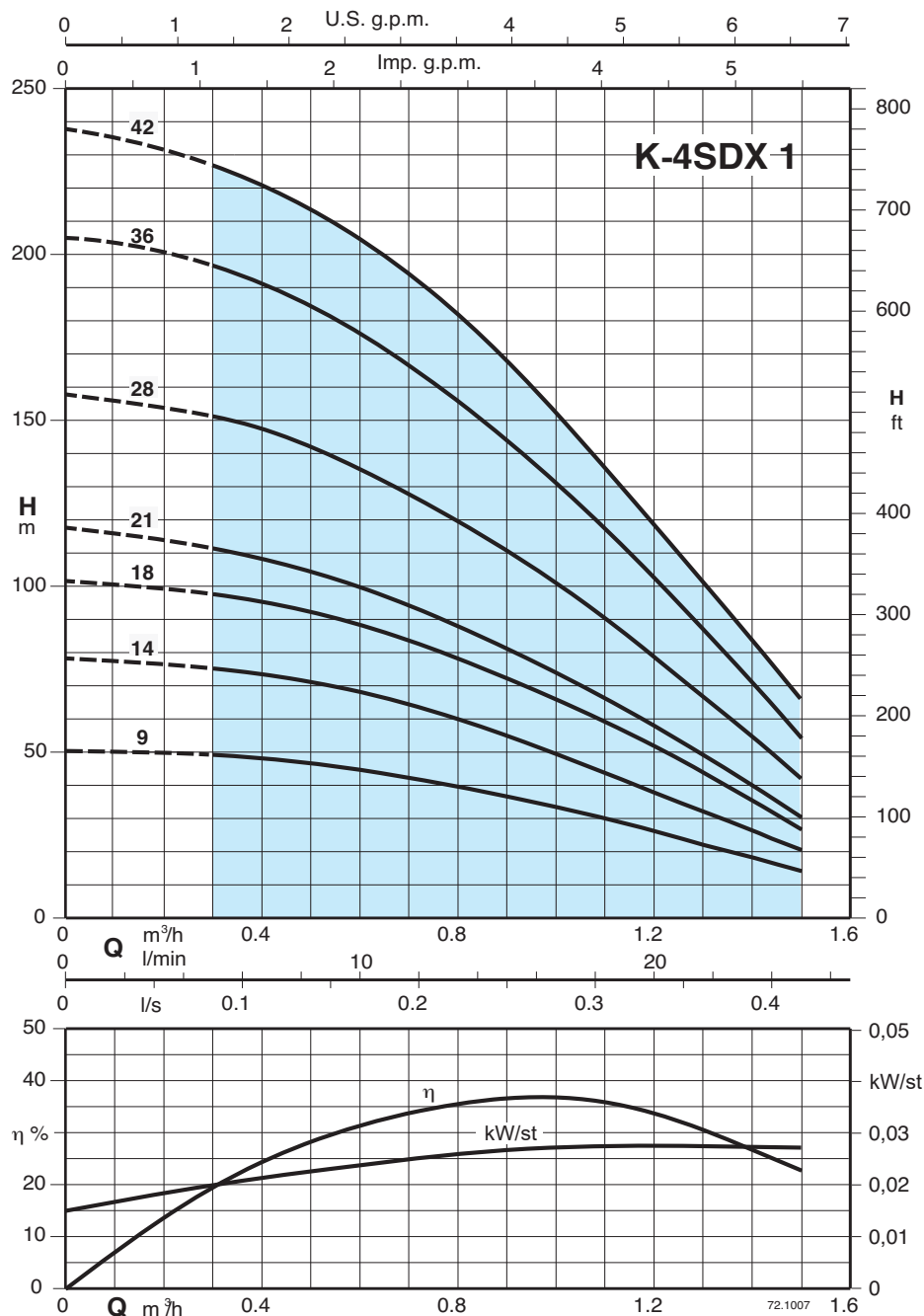
Ø of the well in inches _____
 Series _____
 Single-phase motor (up to max. 2,2 kW) _____
 Stage identification _____
 Number of stages _____

4 SDX M 5 / 44

Coverage chart $n \approx 2900$ rpm



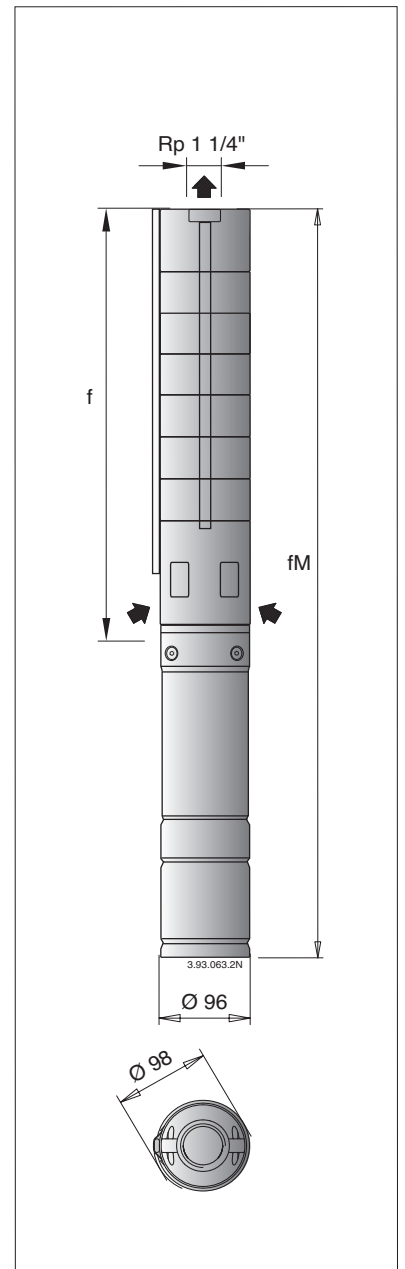
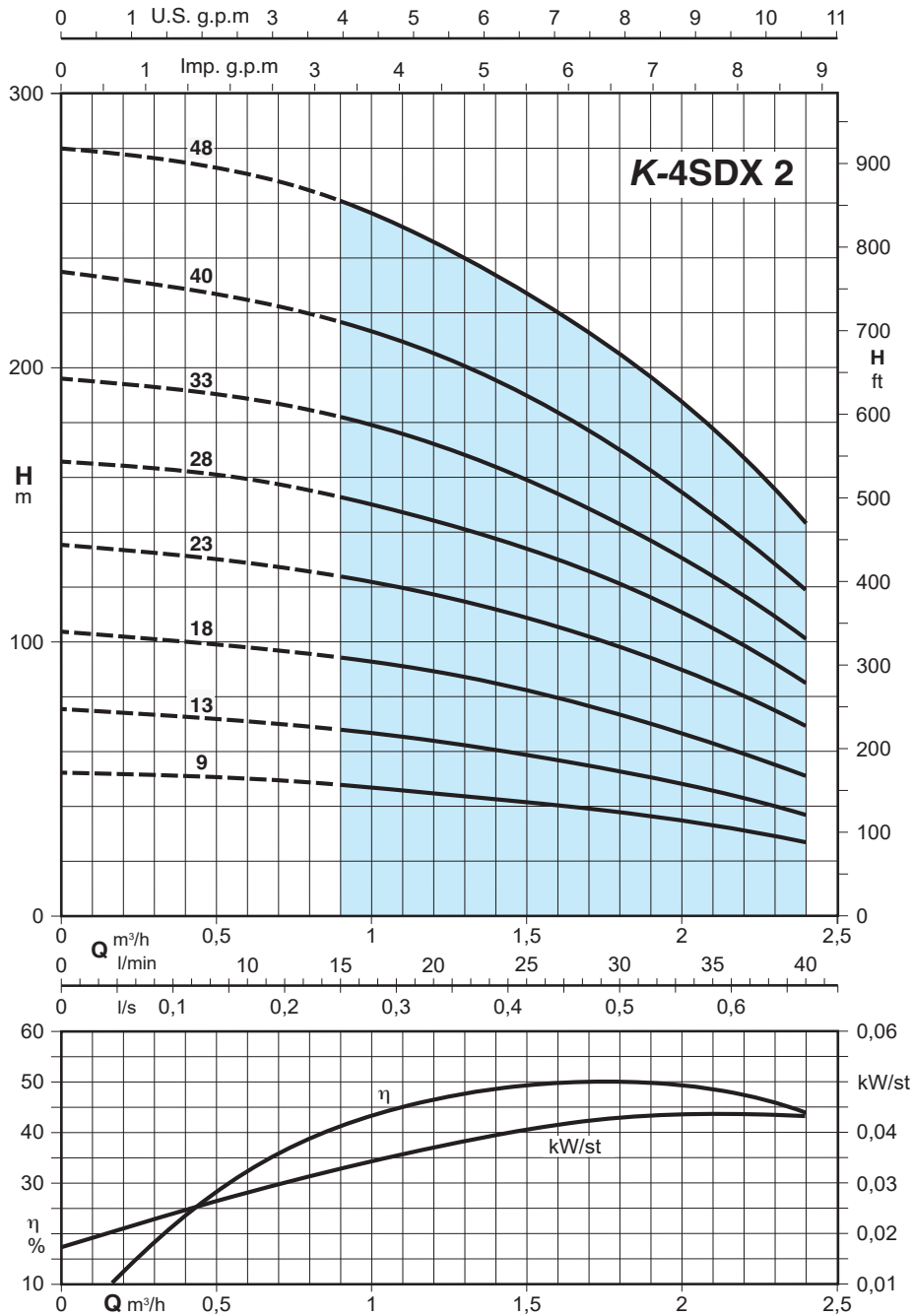
Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3~ 400 V (380-415) 50 Hz		1~ 230V Capacitor P1 450 Vc		P2		Q		n ≈ 2900 1/min										
								m³/h	0	0,3	0,6	0,9	1,2	1,5				
A		A		μF	kW	kW	HP	l/min	0	5	10	15	20	25				
K-4SDX 1/9	1,2	K-4SDXM 1/9	3,2	16	0,71	0.37	0.5	H m	50	47	45	36	26	14				
K-4SDX 1/14	1.2	K-4SDXM 1/14	3,2	16	0,71	0.37	0.5		78	75	68	55	38	21				
K-4SDX 1/18	1.5	K-4SDXM 1/18	4	25	0,91	0.55	0.75		102	97	88	72	52	27				
K-4SDX 1/21	1.5	K-4SDXM 1/21	4	25	0,91	0.55	0.75		118	111	100	81	58	30				
K-4SDX 1/28	2.2	K-4SDXM 1/28	5,6	30	1,24	0.75	1		158	151	138	111	79	42				
K-4SDX 1/36	2.8	K-4SDXM 1/36	8	40	1,71	1.1	1.5		205	196	175	144	103	54				
K-4SDX 1/42	2.8	K-4SDXM 1/42	8	40	1.17	1.1	1.5		238	227	203	168	118	67				

f	4SDX		4SDXM	
	f mm	fM mm	f mm	fM mm
356	683	10,6	683	10,5
461	788	11,4	788	11,3
545	872	12,1	907	13,8
608	935	12,7	970	14,4
755	1102	14,9	1117	15,6
946	1308	19,4	1348	20,6
1072	1434	20,8	1474	22

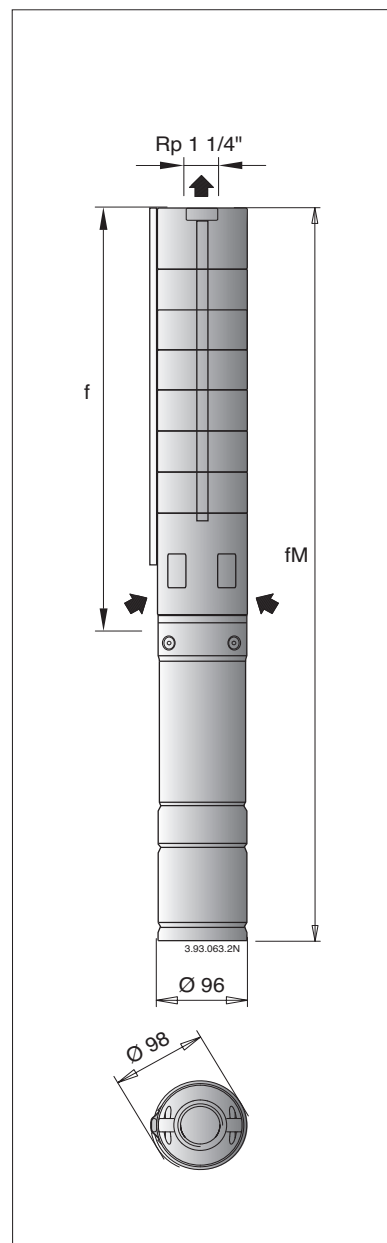
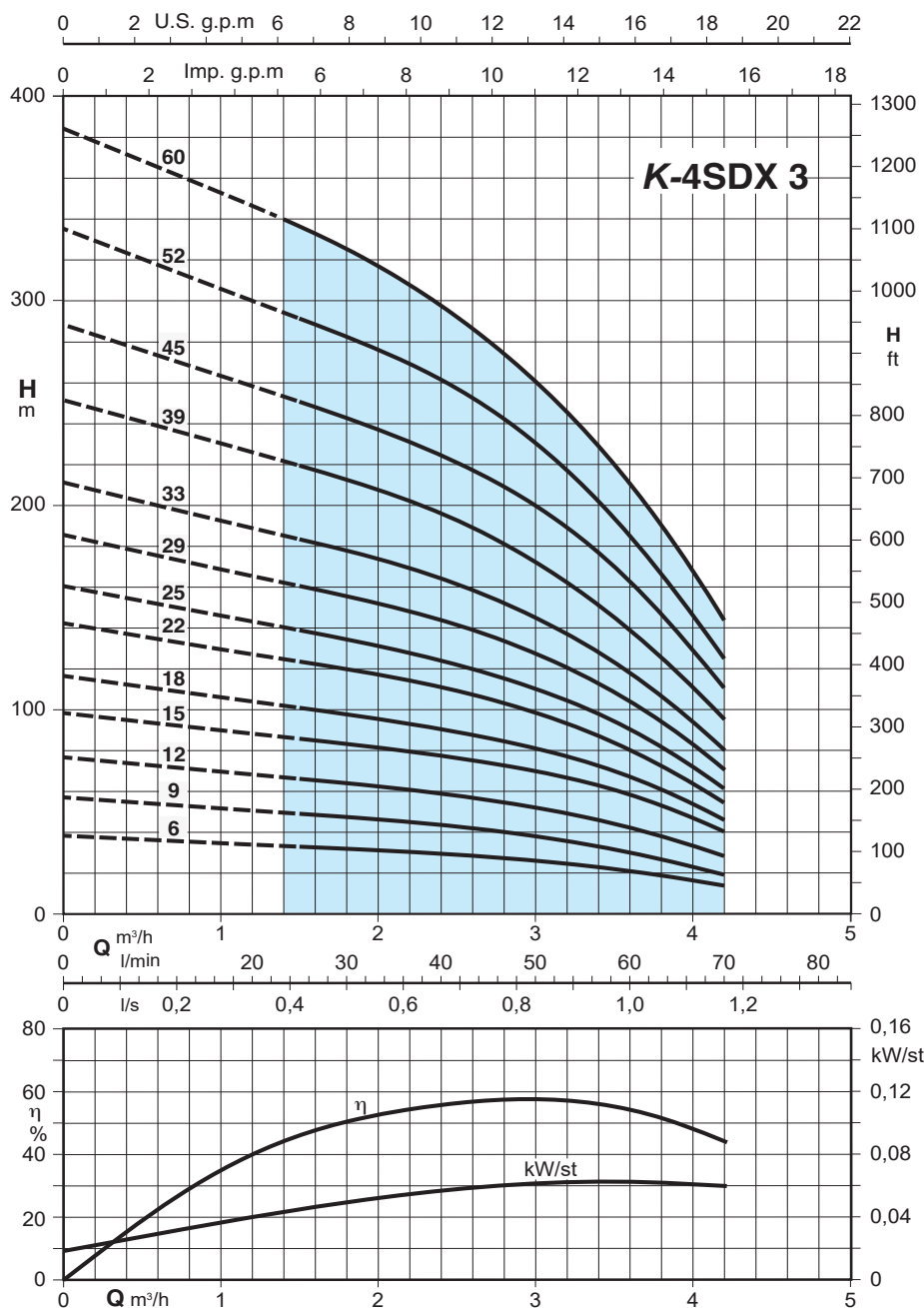
Characteristic curves, performance $n \approx 2900$ rpm, dimensions and weights



3~	400 V (380-415) 50 Hz A	1~	230V Capacitor 450 Vc μF	P1 kW	P2 kW	HP	Q m³/h l/min	n ≈ 2900 1/min									
								0	0,9	1,2	1,5	1,8	2,1	2,4			
								0	15	20	25	30	35	40			
K-4SDX 2-09	1,2	K-4SDXM 2-09	3,2	16	0,71	0.37	0.5	52	48	45	42	38	33	27			
K-4SDX 2-13	1,5	K-4SDXM 2-13	4	25	0,91	0.55	0.75	76	68	64	59	53	46	37			
K-4SDX 2-18	2,2	K-4SDXM 2-18	5,6	30	1,24	0.75	1	104	94	89	82	74	63	51			
K-4SDX 2-23	2,8	K-4SDXM 2-23	8	40	1,71	1.1	1.5	136	124	117	109	98	85	69			
K-4SDX 2-28	3,7	K-4SDXM 2-28	10,8	60	2,33	1.5	2	166	153	144	134	121	105	85			
K-4SDX 2-33	3,7	K-4SDXM 2-33	10,8	60	2,33	1.5	2	196	182	172	159	143	124	101			
K-4SDX 2-40	5,5	K-4SDXM 2-40	14,7	70	3,25	2.2	3	235	217	205	190	170	147	119			
K-4SDX 2-48	5,5	K-4SDXM 2-48	14,7	70	3,25	2.2	3	280	261	246	227	205	178	144			

f mm	4SDX		4SDXM	
	fM mm	kg	fM mm	kg
356	683	10,7	683	10,6
440	767	11,5	802	13,2
545	892	13,4	907	14,1
650	1012	15,2	1052	16,4
755	1157	17,4	1202	19
883	1285	20,5	1330	22,1
1030	1432	23,2	1547	27,2
1198	1600	25,2	1715	29,2

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



3~	400 V (380-415) 50 Hz	1~	230V Capacitor P1 450 Vc				P2		Q m³/h	n ≈ 2900 1/min										
	A		A	μF	kW	kW	HP	l/min		0	1,5	1,8	2,1	2,4	2,7	3	3,6	4,2		
									0	25	30	35	40	45	50	60	70			
K-4SDX 3-6	1,2	K-4SDXM 3-6	3,2	16	0,71	0.37	0.5	H m	38	33	32	31	30	28	26	21	14			
K-4SDX 3-9	1,5	K-4SDXM 3-9	4	25	0,91	0.55	0.75		57	49	47	46	43	41	38	30	19			
K-4SDX 3-12	2,2	K-4SDXM 3-12	5,6	30	1,24	0.75	1		77	66	64	62	58	56	52	42	28			
K-4SDX 3-15	2,8	K-4SDXM 3-15	8	40	1,71	1.1	1.5		97	85	83	80	77	74	69	57	40			
K-4SDX 3-18	2,8	K-4SDXM 3-18	8	40	1,71	1.1	1.5		116	101	97	94	90	85	80	67	45			
K-4SDX 3-22	3,7	K-4SDXM 3-22	10,8	60	2,33	1.5	2		142	123	120	115	110	105	98	80	54			
K-4SDX 3-25	3,7	K-4SDXM 3-25	10,8	60	2,33	1.5	2		160	139	134	129	123	117	110	90	61			
K-4SDX 3-29	5,5	K-4SDXM 3-29	14,7	70	3,25	2.2	3		185	160	155	150	143	136	127	103	70			
K-4SDX 3-33	5,5	K-4SDXM 3-33	14,7	70	3,25	2.2	3		211	183	177	171	164	155	145	118	80			
K-4SDX 3-39	7,4						3		4	251	219	212	205	196	185	172	138	95		
K-4SDX 3-45	7,4						3	4	288	250	242	234	224	213	199	162	110			
K-4SDX 3-52	9,4						4	5.5	334	291	282	272	261	247	230	184	124			
K-4SDX 3-60	9,4						4	5.5	384	336	325	312	297	280	260	210	143			

		4SDX		4SDXM	
f	fM	f	fM	f	fM
mm	mm	mm	mm	mm	mm
293	620	10,1	620	10	
356	683	10,7	718	12,4	
419	766	12,3	781	13	
482	844	13,7	884	14,9	
545	907	14,2	947	15,4	
629	1031	16,3	1076	17,9	
692	1094	16,9	1139	18,5	
776	1178	18,5	1293	22,5	
883	1285	21,4	1400	25,4	
1009	1490	26,1			
1135	1616	27,6			
1282	1828	32,7			
1450	1996	34,8			

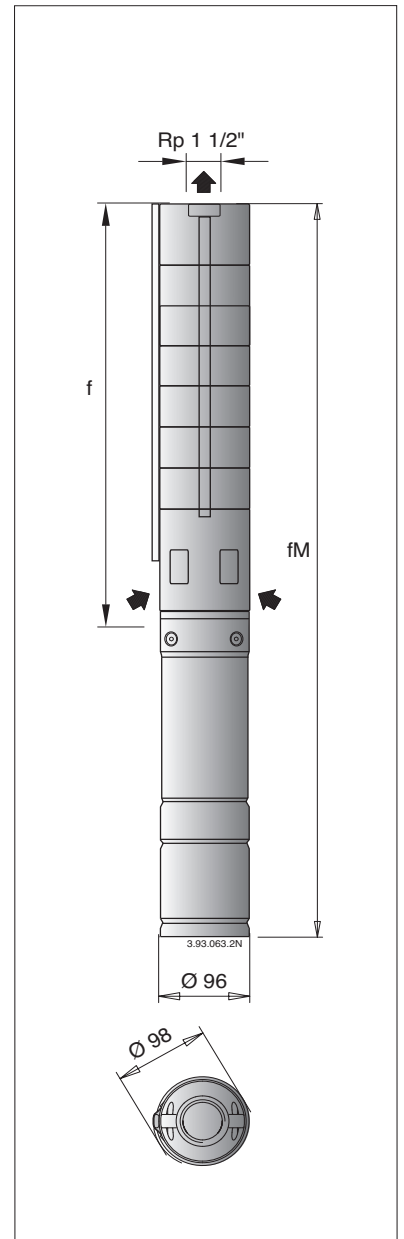
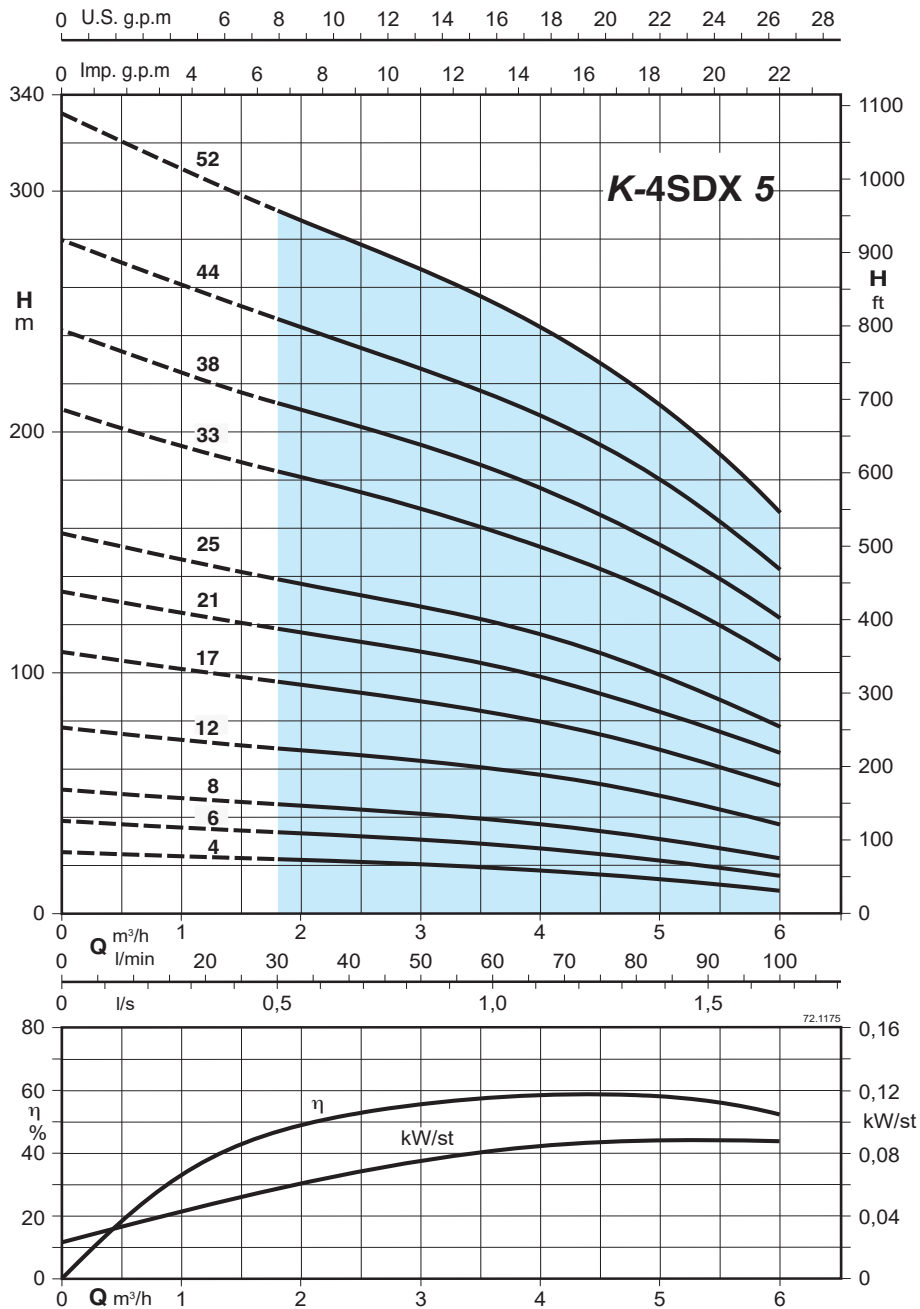
P1 Max. power input

P2 Rated motor power output

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

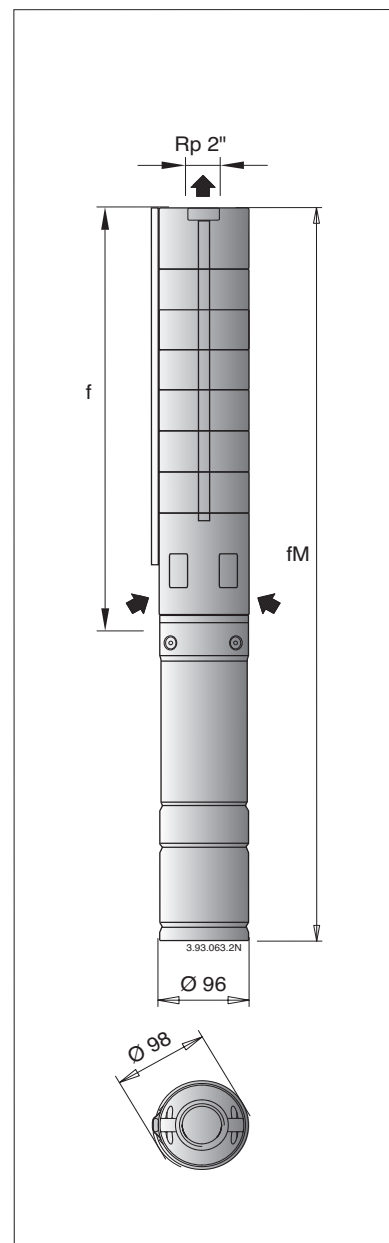
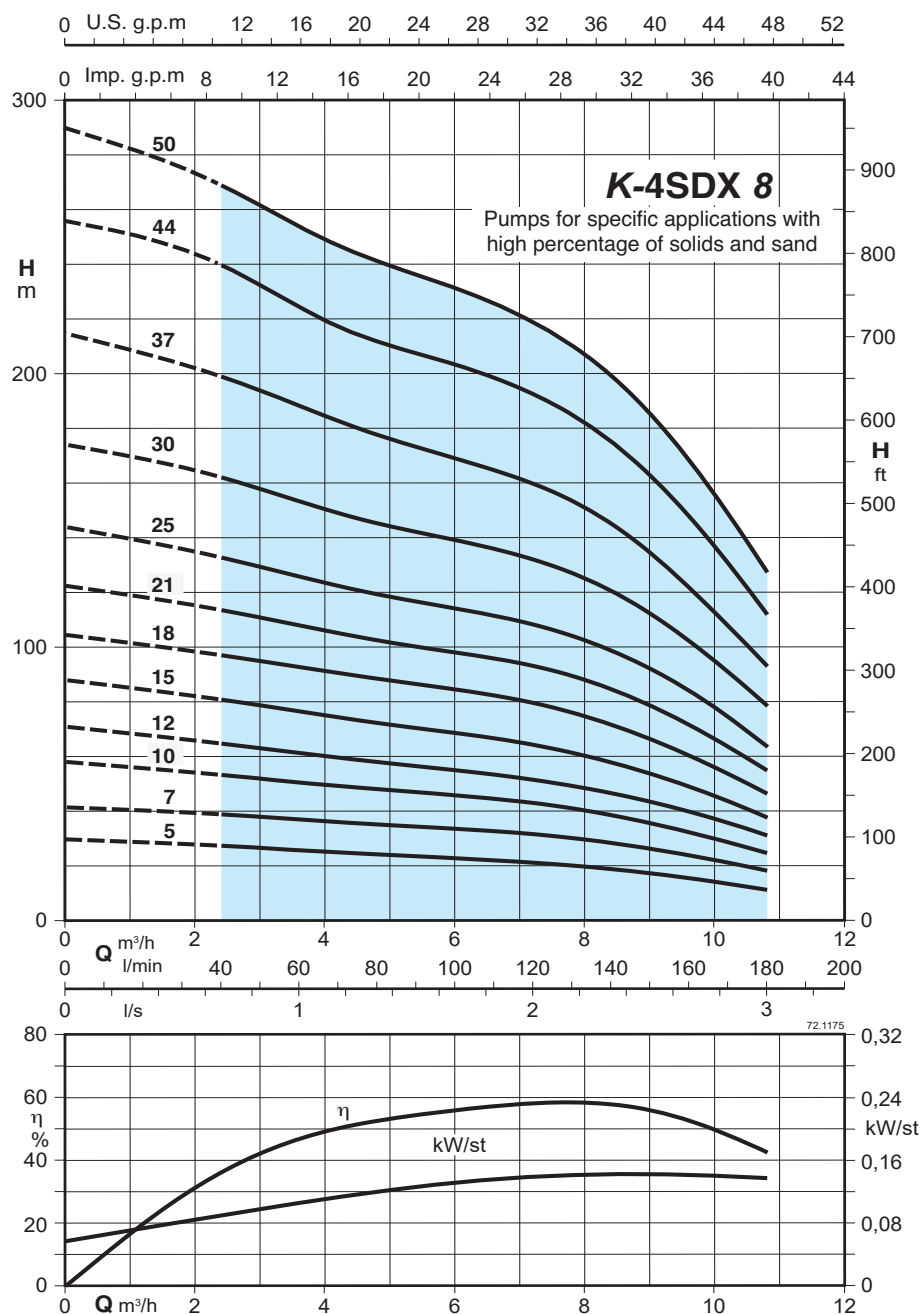
Tolerances according to UNI EN ISO 9906:2012

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



3~	400 V (380-415) 50 Hz A	1~	230V Capacitor P1				P2		Q m³/h l/min	n ≈ 2900 1/min										f mm	4SDX		4SDXM	
			A	450 Vc µF	kW	kW	HP	0		1,8	2,1	2,4	3	3,6	4,2	4,8	5,4	6	fM mm		kg	fM mm	kg	
								0		30	35	40	50	60	70	80	90	100						
K-4SDX 5-04	1,2	K-4SDXM 5-04	3,2	16	0,71	0,37	0,5	H m	25	23	22	21	20	19	17	15	12	10	251	578	9,7	578	9,6	
K-4SDX 5-06	1,5	K-4SDXM 5-06	4	25	0,91	0,55	0,75		38	34	33	32	30	28	26	23	20	16	293	620	10,1	655	11,8	
K-4SDX 5-08	2,2	K-4SDXM 5-08	5,6	30	1,24	0,75	1		51	45	44	43	41	39	36	32	28	23	335	682	11,5	697	12,2	
K-4SDX 5-12	2,8	K-4SDXM 5-12	8	40	1,71	1,1	1,5		77	68	67	66	63	60	56	51	44	37	419	781	13,1	821	14,3	
K-4SDX 5-17	3,7	K-4SDXM 5-17	10,8	60	2,33	1,5	2		108	96	94	92	88	83	77	70	62	53	524	926	15,3	971	16,9	
K-4SDX 5-21	5,5	K-4SDXM 5-21	14,7	70	3,25	2,2	3		134	118	115	113	108	103	96	87	77	67	608	1010	17	1125	21	
K-4SDX 5-25	5,5	K-4SDXM 5-25	14,7	70	3,25	2,2	3		157	138	136	133	127	121	113	103	90	78	692	1094	17,7	1209	21,7	
K-4SDX 5-33	7,4					3	4		209	184	180	176	168	159	149	137	122	105	868	1349	24,5			
K-4SDX 5-38	9,4					4	5,5		242	212	208	203	194	184	172	158	142	123	973	1519	29,1			
K-4SDX 5-44	9,4					4	5,5		279	247	242	237	226	215	202	187	166	143	1099	1645	30,6			
K-4SDX 5-52	13					5,5	7,5	332	291	285	279	267	253	237	218	195	166	1267	1913	37,4				

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 1/min										
	A		450 Vc			kW	HP	0		2,4	3,6	4,8	5,4	6	7,2	8,4	9,6	10,8		
			A	μF	kW			0		40	60	80	90	100	120	140	160	180		
K-4SDX 8-05	2,2	K-4SDXM 8-05	5,6	30	1,24	0.75	1	H m	30	28	26	24	23	22	21	19	15	11		
K-4SDX 8-07	2,8	K-4SDXM 8-07	8	40	1,71	1.1	1.5		41	39	37	35	34	33	32	28	24	18		
K-4SDX 8-10	3,7	K-4SDXM 8-10	10,8	60	2,33	1.5	2		58	54	51	48	47	46	43	38	32	25		
K-4SDX 8-12	5,5	K-4SDXM 8-12	14,7	70	3,25	2.2	3		71	65	61	58	56	55	52	47	40	31		
K-4SDX 8-15	5,5	K-4SDXM 8-15	14,7	70	3,25	2.2	3		88	80	76	72	70	68	64	57	49	38		
K-4SDX 8-18	7,4					3	4		104	98	93	88	86	84	79	72	60	46		
K-4SDX 8-21	9,4					4	5.5		122	114	107	102	100	98	93	85	72	55		
K-4SDX 8-25	9,4					4	5.5		144	133	126	119	116	114	108	98	84	64		
K-4SDX 8-30	13					5.5	7.5		174	163	154	145	142	139	132	120	102	79		
K-4SDX 8-37	13					5.5	7.5		215	199	188	177	173	169	160	145	122	93		
K-4SDX 8-44	18,8					7.5	10		256	240	224	212	207	203	192	175	148	112		
K-4SDX 8-50	18,8					7.5	10		290	269	254	241	236	231	219	199	168	127		

f	4SDX		4SDXM	
	mm	kg	mm	kg
412	759	13	774	13,7
496	858	14,8	898	16
622	1024	17,6	1069	19,2
706	1108	19,5	1223	23,5
832	1234	21	1349	25
958	1439	25,7		
1084	1630	30,5		
1252	1798	32,5		
1462	2108	39,8		
1753	2399	43,3		
2047	2778	61,2		
2299	3030	61,2		

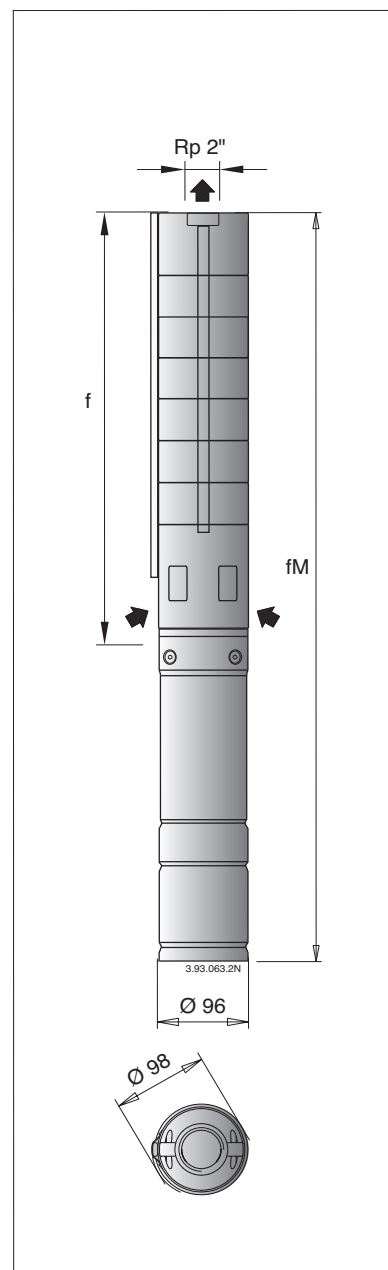
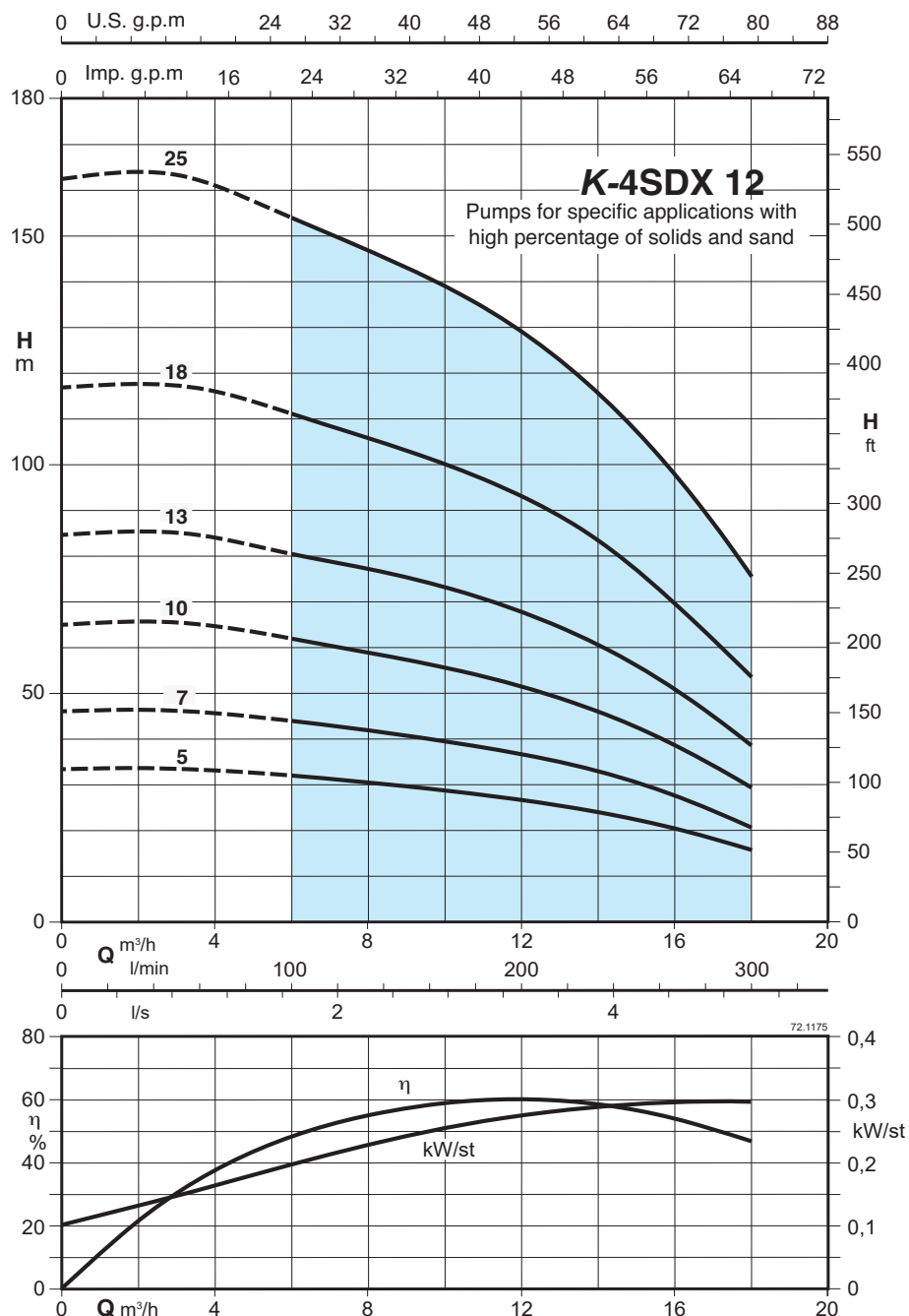
P1 Max. power input

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

[illegible]

f mm	4SDX		4SDXM	
	fM mm	kg	fM mm	kg
505	907	15,8	952	17,4
635	1037	18	1152	22
830	1311	23,1		
1025	1571	28,4		
1350	1996	36,4		
1805	2536	48,4		

