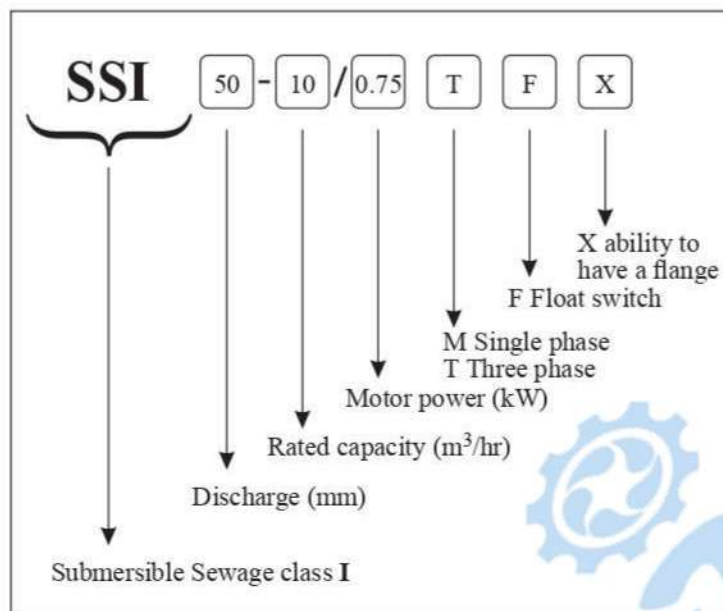


Submersible Sewage Electropumps in Cast Iron with Non clog double channel Impeller (SSI)

Nomenclature

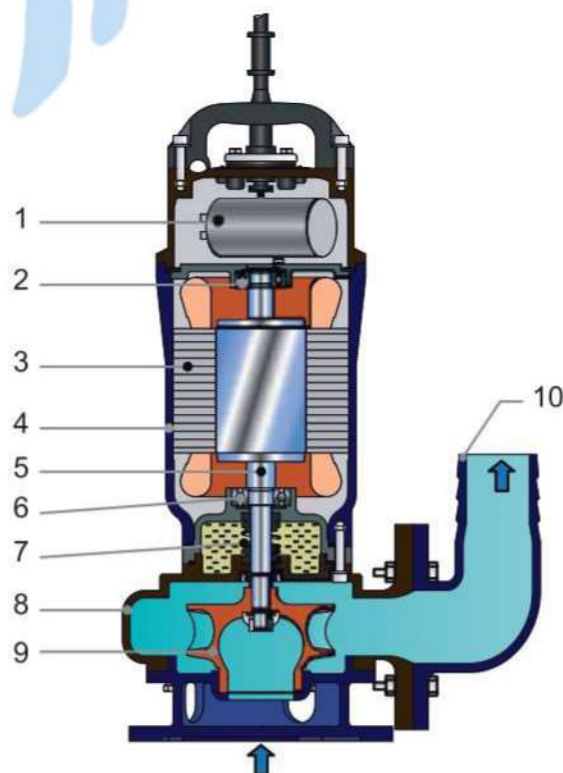


2850
rpm



Pump schematic & Components

1	Capacitor
2	Upper Bearing
3	Motor
4	Motor Casing
5	Motor Shaft
6	Lower Bearing
7	Mechanical Seal
8	Pump Casing
9	Impeller
10	Discharge





Submersible Pumps	S Series
Specification: SSI (Sewage Pump)	50 Hz

SSI			
PUMP	Liquid Handled	Type of Liquid	Sewage
		Max. Temp. (°C)	40 ⁰
		Max. Solids Size (mm)	20, 25, 28 or 30 (depends on the model)
		Max. density (kg/m ³)	1200
		pH Level	4 - 10
	Construction	Impeller	Semi-open double channel
		Shaft seal type	Oil lubricated, single spring double mechanical seal
	Connection	Discharge (mm)	DN 40, 50, 65, 80, 100
	Material	Casing	Cast Iron
		Impeller	Cast Iron
		Suction Cover	Cast Iron
		Shaft	Stainless Steel Chromium
		Motor frame	Cast Iron
		fasteners	Stainless Steel
		Mechanical Seal	Hot Pressing Carbon/Alumina Ceramic/NBR Impeller Side Hot Pressing Carbon/Alumina Ceramic/NBR Motor Side
	Accessories	Standard	Discharge elbow, Float switch for Single phase
	Certificates	CE	
Motor	Type	Air filled dry submersible	
	No. of poles	2	
	Rotation Speed (r/min)	2850	
	Insulation Class	F	
	Protection Degree	IP 68	
	Power Rating (kW)	0.55 - 7.5	
	Frequency (Hz)	50 ± 5%	
	Voltage (V)	220±10% for single phase & 380±10% for three phase	
	Starting	DOL	
	Over Load Protection	Built in	
	Cable	material	H07RN-F
		length (m)	8, 10 or 15 (Additional information is provided in SSI model pages)
	Bearings	Permanently lubricated sealed ball bearing	

Performance Curves & Tables

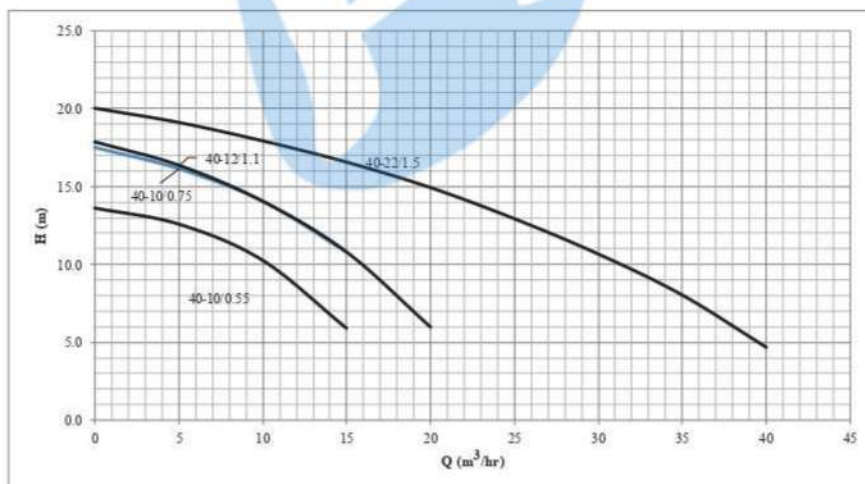
Model		Motor		Q (lit/min)	0	83	166	250	333	416	500	583	666
Single Phase	Three Phase	HP	kW	Q (m ³ /hr)	0	5	10	15	20	25	30	35	40
SSI 40-10/0.55 M	-	0.75	0.55	H (m)	13.6	12.6	10.3	5.9	-	-	-	-	-
SSI 40-10/0.75 M	SSI 40-10/0.75 T	1.0	0.75		17.5	16.1	14.0	10.8	-	-	-	-	-
SSI 40-12/1.1 M	SSI 40-12/1.1 T	1.5	1.1		17.8	16.3	14.0	10.8	6.0	-	-	-	-
-	SSI 40-22/1.5 T	2.0	1.5		20.0	19.1	17.9	16.5	14.9	12.9	10.7	8.0	4.7

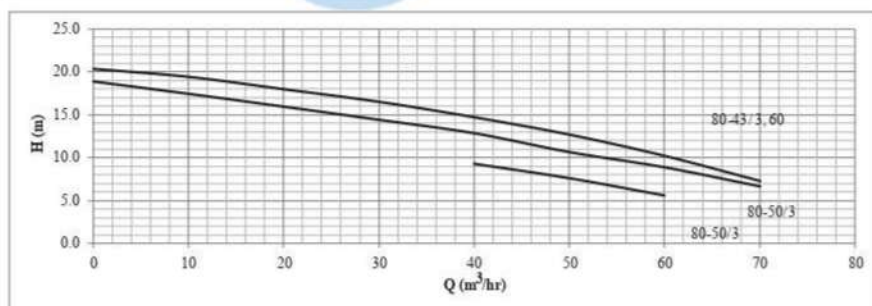
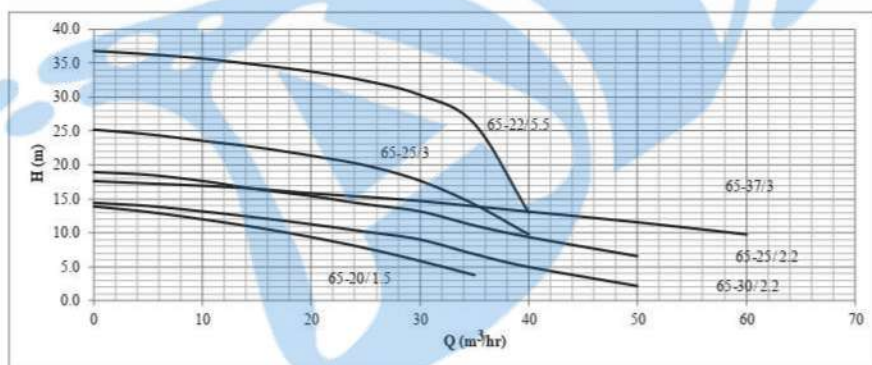
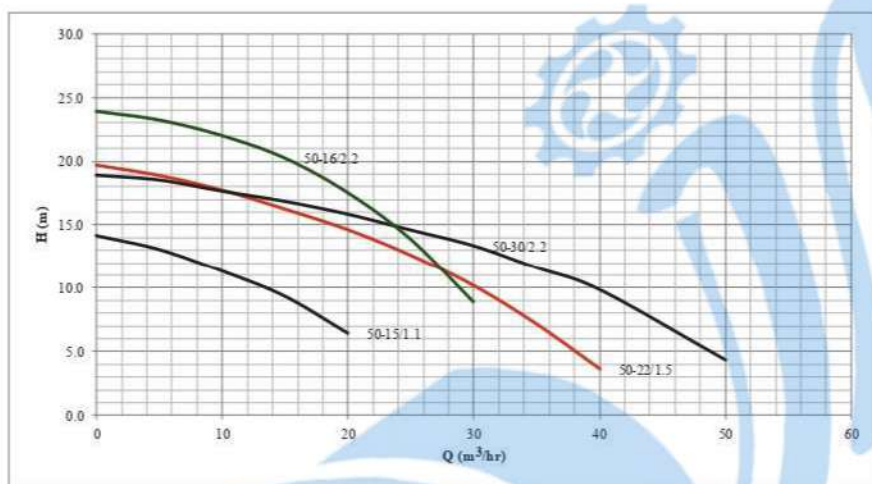
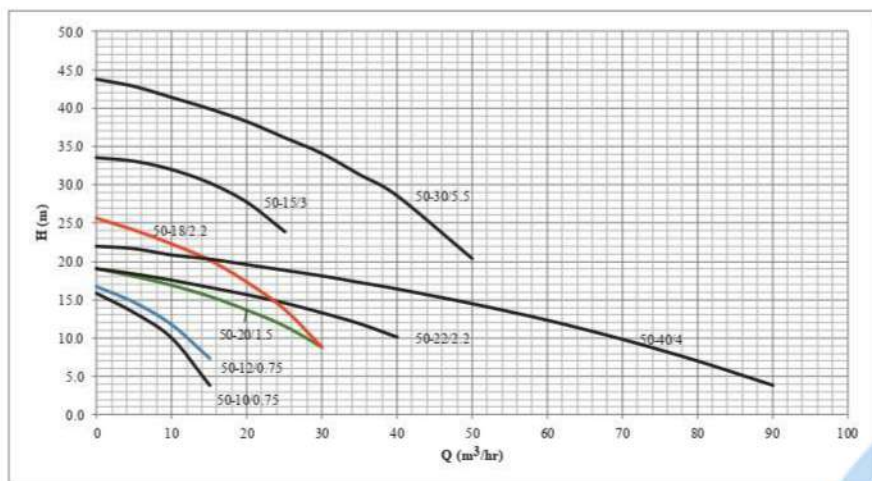
Model		Motor		Q (lit/min)	0	83	167	250	333	417	500	583	667	833	1000	1167	1333	1500
Single Phase	Three Phase	HP	kW	Q (m ³ /hr)	0	5	10	15	20	25	30	35	40	50	60	70	80	90
SSI 50-10/0.75 M	SSI 50-10/0.75 T	1.0	0.75	H (m)	15.9	13.3	10.0	3.8	-	-	-	-	-	-	-	-	-	-
-	SSI 50-12/0.75 T	1.0	0.75		16.7	14.7	11.7	7.4	-	-	-	-	-	-	-	-	-	-
SSI 50-15/1.1 M	SSI 50-15/1.1 T	1.5	1.1		14.1	13.1	11.3	9.3	6.5	-	-	-	-	-	-	-	-	-
-	SSI 50-20/1.5 T	2.0	1.5		19.1	18.1	16.9	15.5	13.7	11.6	8.8	-	-	-	-	-	-	-
-	SSI 50-22/1.5 T	2.0	1.5		19.7	18.9	17.8	16.3	14.6	12.6	10.2	7.1	3.6	-	-	-	-	-
-	SSI 50-30/2.2 T	3.0	2.2		18.9	18.5	17.6	16.8	15.8	14.6	13.1	11.6	9.8	4.3	-	-	-	-
-	SSI 50-22/2.2 T	3.0	2.2		19.1	18.4	17.6	16.6	15.6	14.6	13.3	11.8	10.1	-	-	-	-	-
-	SSI 50-18/2.2 T	3.0	2.2		23.9	23.2	22.0	20.2	17.5	13.9	8.9	-	-	-	-	-	-	-
-	SSI 50-16/2.2 T	3.0	2.2		25.6	24.0	22.2	20.2	17.3	13.7	8.8	-	-	-	-	-	-	-
-	SSI 50-15/3 T	4.0	3		33.5	33.1	32.0	30.2	27.7	23.9	-	-	-	-	-	-	-	-
-	SSI 50-40/4 T	5.5	4.0		21.9	21.6	20.8	20.3	19.5	18.8	18.1	17.2	16.4	14.4	12.3	9.8	7.0	3.8
-	SSI 50-30/5.5 T	7.5	5.5		43.8	42.9	41.4	40.0	38.3	36.2	34.1	31.4	28.6	20.4	-	-	-	-

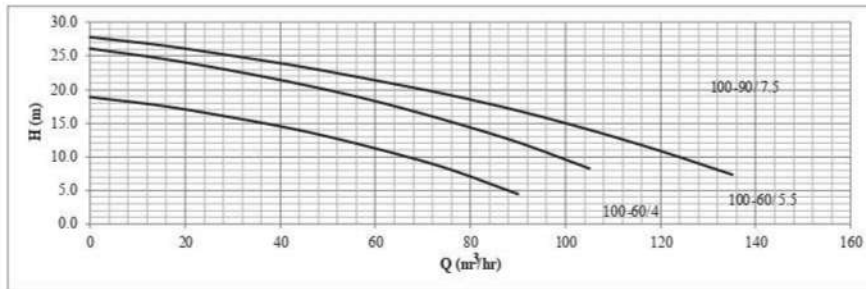
Model		Motor		Q (lit/min)	0	83	167	250	333	417	500	583	667	833	1000
Single Phase	Three Phase	HP	kW	Q (m ³ /hr)	0	5	10	15	20	25	30	35	40	50	60
-	SSI 65-20/1.5 T	2.0	1.5	H (m)	13.9	13.1	12.0	10.8	9.4	7.7	5.8	3.7	-	-	-
-	SSI 65-30/2.2 T	3.0	2.2		14.5	14	13.2	12.3	11.3	10.2	9.1	6.9	5	2.2	-
-	SSI 65-25/2.2 T	3.0	2.2		18.9	18.5	17.6	16.4	15.4	14.2	13.2	11.1	9.4	6.6	-
-	SSI 65-25/3 T	4.0	3		25.1	24.5	23.5	22.5	21.3	19.9	17.7	14.2	9.8	-	-
-	SSI 65-22/3 T	4.0	3		25.6	25.2	24.5	23.4	21.9	19.9	17.4	14.4	10.5	-	-
-	SSI 65-22/5.5 T	7.5	5.5		36.8	36.3	35.7	34.7	33.7	32.4	30.3	26.1	13.0	-	-
-	SSI 65-37/3 T	4.0	3.0		17.6	17.3	17.0	16.5	15.8	15.3	14.7	13.9	13.1	11.5	9.7

Model		Motor		Q (lit/min)	0	167	333	500	667	833	1000	1167	1333	1500
Single Phase	Three Phase	HP	kW	Q (m ³ /hr)	0	10	20	30	40	50	60	70	80	90
-	SSI 80-60/3 T	4.0	3.0	H (m)	12.9	-	-	-	9.3	7.6	5.6	-	-	-
-	SSI 80-50/3 T	4.0	3.0		18.8	17.4	15.9	14.4	12.8	10.6	8.8	6.6	-	-
-	SSI 80-43/3 T	4.0	3.0		20.3	19.4	18.0	16.5	14.7	12.6	10.2	7.2	-	-

Model		Motor		Q (lit/min)	0	250	500	750	1000	1250	1500	1750	2000	2250
Single Phase	Three Phase	HP	kW	Q (m ³ /hr)	0	15	30	45	60	75	90	105	120	135
-	SSI 100-60/4 T	5.5	4.0	H (m)	18.9	17.6	15.8	13.8	11.2	8.3	4.4	-	-	-
-	SSI 100-60/5.5 T	7.5	5.5		26.2	24.7	22.8	20.7	18.3	15.4	12.2	8.2	-	-
-	SSI 100-75/7.5 T	10.0	7.5		27.8	26.6	25.1	23.4	21.4	19.3	16.9	14.0	10.9	7.3
-	SSI 100-80/7.5 T	10.0	7.5		27.8	26.6	25.1	23.4	21.4	19.3	16.9	14.0	10.9	7.3
-	SSI 100-90/7.5 T	10.0	7.5		27.8	26.6	25.1	23.4	21.4	19.3	16.9	14.0	10.9	7.3

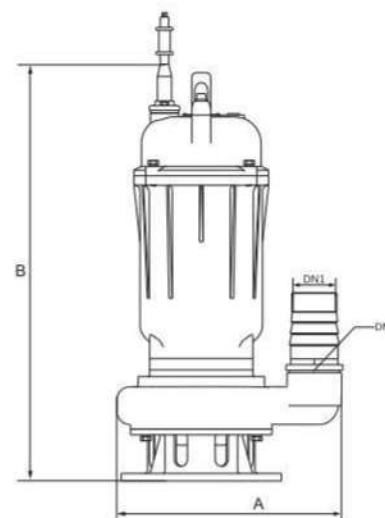
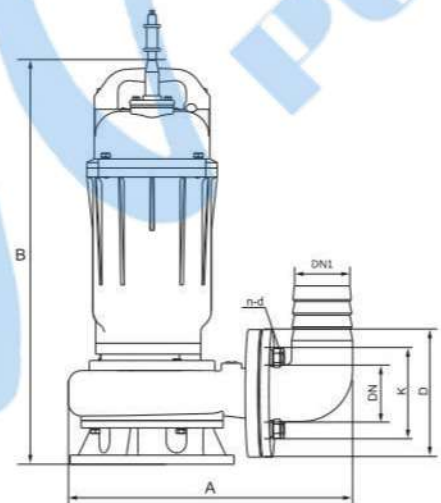






Dimensions & Weights

Model	Dim(mm)						N.W.(kg)
	A	B	DN	D	K	n-d	
SSI 40-10/0.55 M	245	442	G1 1/2 Pipe Thread	140	110	4-M12	175/19
SSI 40-10/0.75 M	245	440					20/21
SSI 40-10/0.75 M F	245	440					20/21
SSI 50-10/0.75 M X	312	440	50	140	110	4-M12	26
SSI 40-12/1.1 M X	258	460	G1 1/2 Pipe Thread	140	110	4-M12	28
SSI 50-15/1.1 M X	285	454					29
SSI 40-10/0.55 M F	245	442					17.5/19
SSI 40-10/0.75 T	245	442	G1 1/2 Pipe Thread	140	110	4-M12	20
SSI 50-10/0.75 T X	312	440					26
SSI 50-12/0.75 T X	312	440					26
SSI 40-12/1.1 T	254	460	G1 1/2 Pipe Thread	140	110	4-M12	28
SSI 50-15/1.1 T X	316	468					29
SSI 40-22/1.5 T X	340	540					36
SSI 50-22/1.5 T X	347	540	50	140	110	4-M12	41
SSI 50-20/1.5 T X	331	534	50	140	110	4-M12	38
SSI 65-20/1.5 T X	344	498	65	160	130	4-M12	35
SSI 50-18/2.2 T X	326	556	50	140	110	4-M12	42
SSI 50-18/2.2 T X	341	556	50	140	110	4-M12	44
SSI 65-25/2.2 T X	384	568	65	160	130	4-M12	45
SSI 50-22/2.2 T X	367	568	50	140	110	4-M12	45
SSI 65-30/2.2 T X	384	568	65	160	130	4-M12	45
SSI 50-30/2.2 T X	376	594	50	140	110	4-M12	47
SSI 50-15/3 T X	362	551	50	140	110	4-M12	48
SSI 65-22/3 T X	360	554	65	160	130	4-M12	49
SSI 65-25/3 T X	360	554	65	160	130	4-M12	49
SSI 65-37/3 T X	399	602	65	160	130	4-M12	61
SSI 80-43/3 T X	419	602	80	190	150	4-M16	61
SSI 80-50/3 T X	419	602	80	190	150	4-M16	61
SSI 80-50/3 T X	419	602	80	190	150	4-M16	55
SSI 50-40/4 T X	371	661	50	140	110	4-M12	73
SSI 100-60/4 T X	452	704	100	210	170	4-M16	75
SSI 50-30/5.5 T X	411	745	50	140	110	4-M12	78
SSI 65-22/5.5 T X	390	783	65	160	130	4-M12	80
SSI 100-60/5.5 T X	452	826	100	210	170	4-M16	93
SSI 100-75/7.5 T X	498	733	100	210	170	4-M16	115
SSI 100-80/7.5 T X	498	733	100	210	170	4-M16	115
SSI 100-90/7.5 T X	562	733	100	210	170	4-M16	118



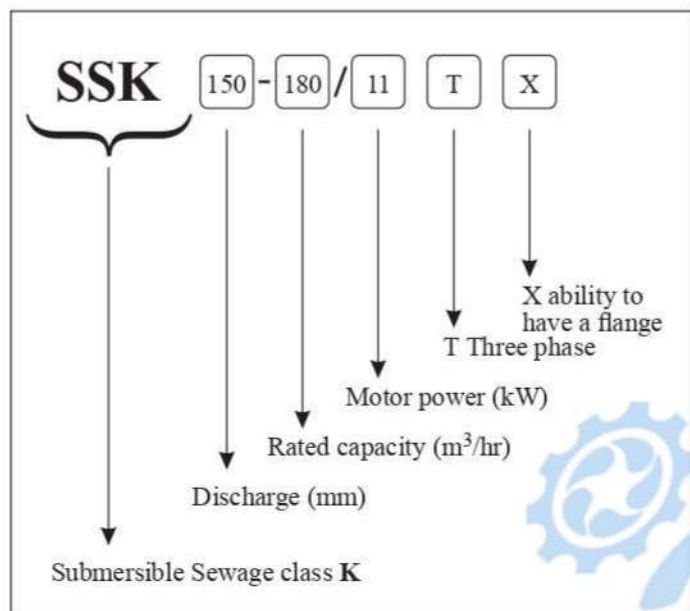


Details & Extra Information

Model	power		Rate Current (A)	Solid Passage (mm)	Cable line (m)	Dim.mm (L×W×H)	G.W (kg)
	kw	HP					
SSI 40-10/0.55 M	0.55	0.75	4.1	20	8	470×250×235	20
SSI 40-10/0.75 M	0.75	1	5.2	20	8	470×250×235	22
SSI 40-10/0.75 M F	0.75	1	5.2	20	8	470×250×235	22
SSI 50-10/0.75 M X	0.75	1	5.2	20	8	520×210×275	29
SSI 40-12/1.1 M X	1.1	1.5	7.3	20	10	540×240×280	31
SSI 50-15/1.1 M X	1.1	1.5	7.3	20	10	540×240×280	32
SSI 40-10/0.55 M F	0.55	0.75	4.1	20	8	470×250×235	20
SSI 40-10/0.75 T	0.75	1	2	20	10	470×250×235	29
SSI 50-10/0.75 T X	0.75	1	2	20	10	540×240×280	31
SSI 50-12/0.75 T X	0.75	1	2	20	10	540×240×280	32
SSI 40-12/1.1 T	1.1	1.5	2.7	20	10	540×240×280	31
SSI 50-15/1.1 T X	1.1	1.5	2.7	20	10	540×240×280	32
SSI 40-22/1.5 T X	1.5	2	3.6	20	15	610×260×308	40
SSI 50-22/1.5 T X	1.5	2	3.6	20	15	610×260×308	45
SSI 50-20/1.5 T X	1.5	2	3.6	25	10	610×260×308	42
SSI 65-20/1.5 T X	1.5	2	3.6	25	7	610×260×308	39
SSI 50-18/2.2 T X	2.2	3	5.1	20	15	635×260×348	47
SSI 50-18/2.2 T X	2.2	3	5.1	20	15	635×260×348	50
SSI 65-25/2.2 T X	2.2	3	5.1	20	15	635×260×348	50
SSI 50-22/2.2 T X	2.2	3	5.1	28	15	635×260×348	50
SSI 65-30/2.2 T X	2.2	3	5.1	30	7	635×260×348	50
SSI 50-30/2.2 T X	2.2	3	5.1	25	10	655×270×328	52
SSI 50-15/3 T X	3	4	6.7	25	15	635×260×348	53
SSI 65-22/3 T X	3	4	6.7	25	15	635×260×348	54
SSI 65-25/3 T X	3	4	6.7	25	15	635×260×348	54
SSI 65-37/3 T X	3	4	6.7	25	10	720×320×390	61
SSI 80-43/3 T X	3	4	6.7	25	10	720×320×390	68
SSI 80-50/3 T X	3	4	6.7	32	7	720×320×390	62
SSI 80-50/3 T X	3	4	6.7	25	10	720×320×390	62
SSI 50-40/4 T X	4	5.5	8.8	25	10	755×325×395	80
SSI 100-60/4 T X	4	5.5	8.8	43	10	800×335×395	83
SSI 50-30/5.5 T X	5.5	7.5	11.7	25	10	755×325×395	85
SSI 65-22/5.5 T X	5.5	7.5	11.7	25	15	800×320×380	88
SSI 100-60/5.5 T X	5.5	7.5	11.7	30	10	840×395×475	103
SSI 100-75/7.5 T X	7.5	10	15.7	30	15	870×430×520	128
SSI 100-80/7.5 T X	7.5	10	15.7	30	10	870×430×520	128
SSI 100-90/7.5 T X	7.5	10	15.7	30	10	870×430×520	131

Submersible Sewage Electropumps in Cast Iron with Non clog double channel Impeller (SSK)

Nomenclature

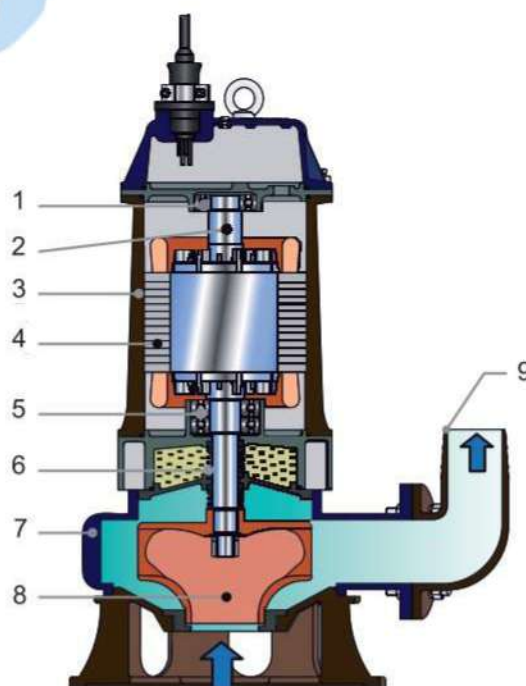


1450 rpm



Pump schematic & Components

1	Upper Bearing
2	Motor Shaft
3	Motor Casing
4	Motor
5	Lower Bearing
6	Mechanical seal
7	Pump Casing
8	Impeller
9	Discharge





Submersible Pumps	S Series
Specification: SSK (Sewage Pump)	50 Hz

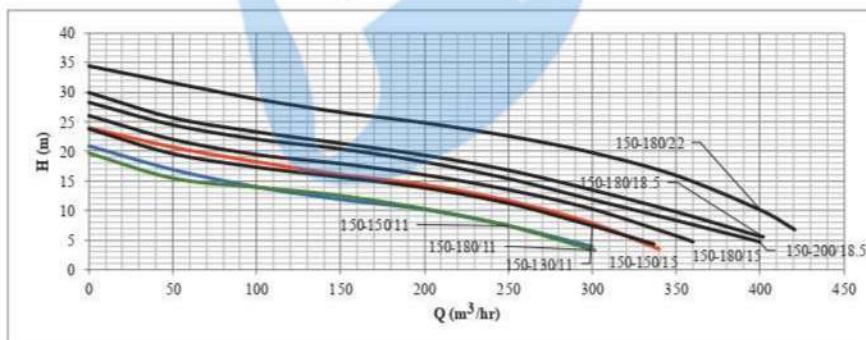
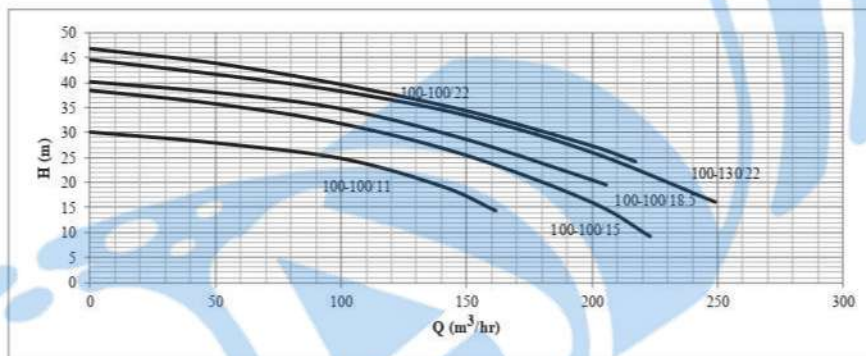
SSK			
PUMP	Liquid Handled	Type of Liquid	Sewage
		Max. Temp. (°C)	40 ⁰
		Max. Solids Size (mm)	35, 45, 50, 55, 60 or 65 (depends on the model)
		Max. density (kg/m ³)	1200
		pH Level	4 - 10
	Construction	Impeller	Double Channel
		Shaft seal type	Oil lubricated, single spring double mechanical seal
	Connection	Discharge (mm)	DN 100, 150, 200
	Material	Casing	Cast Iron
		Impeller	Cast Iron
		Suction Cover	Cast Iron
		Shaft	Stainless Steel Chromium
		Motor frame	Cast Iron
		fasteners	Stainless Steel
		Mechanical Seal	Hot Pressing Carbon/Alumina Ceramic/NBR Impeller Side Hot Pressing Carbon/Alumina Ceramic/NBR Motor Side
	Accessories	Standard	Screwed flange Oval type (1.5 kW) & Discharge elbow (2.2-7.5 kW)
		Optional	QDC: LS, LM, LL type, Thermal protector
	Certificates		CE
Motor	Type		Air filled dry submersible
	No. of poles		4
	Rotation Speed (r/min)		1450
	Insulation Class		F
	Protection Degree		IP 68
	Power Rating (kW)		11-22
	Frequency (Hz)		50 ± 5%
	Voltage (V)		(380-680)±10%
	Starting		Star-Delta
	Over Load Protection		Built in
	Cable	material	H07RN-F
		length (m)	10
	Bearings		Permanently lubricated sealed ball bearing

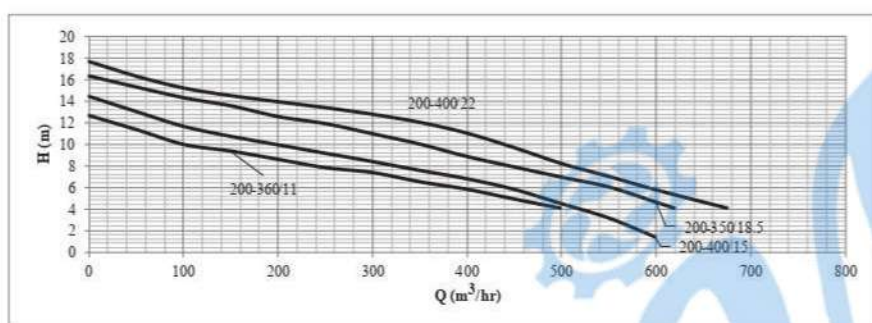
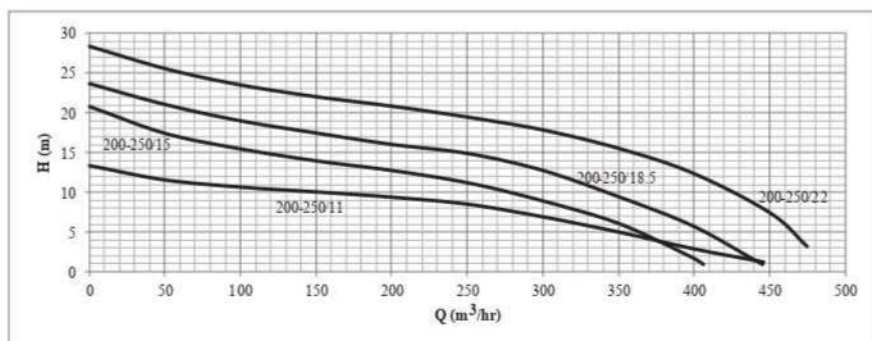
Performance Curves & Tables

Model	Motor		Q (lit/min)	0	833	1667	2500	3333	4167
Three Phase	HP	kW	Q (m ³ /hr)	0	50	100	150	200	250
SSK 100-100/11 T	15.0	11.0	H (m)	30.1	28.0	24.8	16.5	-	-
SSK 100-100/15 T	20.0	15.0		38.4	35.7	31.8	25.4	16.1	-
SSK 100-100/18.5 T	25.0	18.5		40.2	38.1	34.8	28.6	20.5	-
SSK 100-130/22 T	30.0	22.0		44.7	41.7	38.3	33.5	26.1	16.0
SSK 100-100/22 T	30.0	22.0		46.7	43.8	39.6	34.2	27.4	-

Model	Motor		Q (lit/min)	0	833	1667	2500	3333	4167	5000	5833	6667
Three Phase	HP	kW	Q (m ³ /hr)	0	50	100	150	200	250	300	350	400
SSK 150-180/11 T	15.0	11.0	H (m)	19.6	15.4	13.9	12.5	10.2	7.4	3.4	-	-
SSK 150-150/11 T	15.0	11.0		20.9	16.9	14.0	11.9	10.1	7.4	3.9	-	-
SSK 150-130/11 T	15.0	11.0		23.8	19.6	17.3	15.6	13.8	11.2	7.4	-	-
SSK 150-150/15 T	20.0	15.0		23.9	20.6	18.2	16.0	14.3	11.6	7.9	-	-
SSK 150-180/15 T	20.0	15.0		26.0	22.0	19.4	17.9	16.0	13.5	10.3	5.9	-
SSK 150-200/18.5 T	25.0	18.5		28.3	24.5	22.1	20.4	18.2	15.3	11.9	8.4	4.8
SSK 150-180/18.5 T	25.0	18.5		29.9	25.7	23.3	21.3	19.3	16.8	13.5	9.8	5.7
SSK 150-180/22 T	30.0	22.0		34.4	31.6	28.8	26.6	24.8	22.5	19.7	15.8	10.0

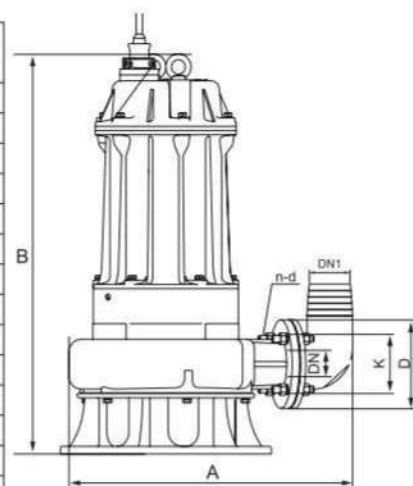
Model	Motor		Q (lit/min)	0	833	1667	2500	3333	4167	5000	5833	6667	7500	8333	9167	10000	10833
Three Phase	HP	kW	Q (m ³ /hr)	0.0	50	100	150	200	250	300	350	400	450	500	550	600	650
SSK 200-360/11 T	15.0	11.0	H (m)	12.6	11.3	9.9	9.3	8.6	7.8	7.4	6.5	5.8	4.9	4.1	-	-	-
SSK 200-250/11 T	15.0	11.0		13.4	11.6	10.7	10.1	9.4	8.6	7.0	5.0	2.9	-	-	-	-	-
SSK 200-400/15 T	20.0	15.0		14.4	13.0	11.6	10.7	9.9	9.1	8.4	7.6	6.8	5.8	4.5	3.1	1.4	-
SSK 200-250/15 T	20.0	15.0		20.9	17.4	15.5	14.0	12.8	11.2	8.9	6.0	1.7	-	-	-	-	-
SSK 200-350/18.5 T	20.0	18.5		16.3	15.3	14.3	13.5	12.6	11.9	11.0	10.0	8.8	7.9	6.9	6.0	4.6	-
SSK 200-250/18.5 T	25.0	18.5		23.6	21.0	18.9	17.4	16.0	14.9	12.7	9.4	5.8	-	-	-	-	-
SSK 200-400/22 T	30.0	22.0		17.6	16.3	15.2	14.5	13.9	13.3	12.7	12.0	11.0	9.6	8.2	7.0	5.7	4.5
SSK 200-250/22 T	30.0	22.0		28.4	25.5	23.5	22.1	20.9	19.5	17.9	15.5	12.4	7.4	-	-	-	-





Dimensions & Weights

Model	Dim.(mm)						N.W. (kg)
	A	B	DN	D	K	n-d	
SSK 100-100/11 T X	710	995	100	210	170	4-Ø19	238
SSK 150-130/11 T X	750	995	150	265	225	8-Ø19	241
SSK 150-150/11 T X	750	995	150	265	225	8-Ø19	238
SSK 150-180/11 T X	750	995	150	265	225	8-Ø19	238
SSK 200-250/11 T X	885	1015	200	320	280	8-Ø19	266
SSK 200-360/11 T X	861	1040	200	320	280	8-Ø19	284
SSK 100-100/15 T X	710	995	100	210	170	4-Ø19	255
SSK 150-150/15 T X	750	995	150	265	225	8-Ø19	253
SSK 150-180/15 T X	750	995	150	265	225	8-Ø19	253
SSK 200-250/15 T X	855	1010	200	320	280	8-Ø19	283
SSK 200-400/15 T X	861	1040	200	320	280	8-Ø19	297
SSK 100-100/18.5 T X	775	1055	100	210	170	4-Ø19	323
SSK 150-200/18.5 T X	800	1070	150	265	225	8-Ø19	341
SSK 150-180/18.5 T X	800	1070	150	265	225	8-Ø19	341
SSK 200-250/18.5 T X	850	1065	200	320	280	8-Ø19	357
SSK 200-350/18.5 T X	861	1096	200	320	280	8-Ø19	355
SSK 100-100/22 T X	775	1055	100	210	170	4-Ø19	336
SSK 100-130/22 T X	775	1055	100	210	170	4-Ø19	336
SSK 150-180/22 T X	800	1070	150	265	225	8-Ø19	351
SSK 200-250/22 T X	850	1065	200	320	280	8-Ø19	362
SSK 200-400/22 T X	861	1096	200	320	280	8-Ø19	370



Details & Extra Information

Model	Power		Rate Current (A)	Solid Passage (mm)	Cable line (m)	Dim.mm (L×W×H)	G.W. (kg)
	kW	HP					
SSK 100-100/11 T X	11	15	23.8	35	10	600×560×1230	253
SSK 150-130/11 T X	11	15		45	10	590×500×1290	256
SSK 150-150/11 T X	11	15		45	10	590×500×1290	253
SSK 150-180/11 T X	11	15		50	10	590×500×1290	253
SSK 200-250/11 T X	11	15		55	10	660×570×1380	281
SSK 200-360/11 T X	11	15		60	10	620×560×1450	299
SSK 100-100/15 T X	15	20	31.7	35	10	600×560×1230	270
SSK 150-150/15 T X	15	20		45	10	590×5400×1290	268
SSK 150-180/15 T X	15	20		50	10	590×500×1290	268
SSK 200-250/15 T X	15	20		50	10	660×570×1380	298
SSK 200-400/15 T X	15	20		65	10	620×560×1450	312
SSK 100-100/18.5 T X	18.5	25	38.7	35	10	690×600×1300	338
SSK 150-200/18.5 T X	18.5	25		45	10	640×570×1350	356
SSK 150-180/18.5 T X	18.5	25		45	10	640×570×1350	356
SSK 200-250/18.5 T X	18.5	25		50	10	660×610×1450	372
SSK 200-350/18.5 T X	18.5	25		55	10	620×560×1525	370
SSK 100-100/22 T X	22	30	44.9	35	10	690×600×1300	351
SSK 100-130/22 T X	22	30		45	10	690×600×1300	351
SSK 150-180/22 T X	22	30		45	10	640×570×1350	366
SSK 200-250/22 T X	22	30		50	10	660×610×1450	377
SSK 200-400/22 T X	22	30		60	10	620×560×1525	385