



Technical Data

Electric Pumps > Vertical Axis, Submersible

> Semi-Axial 14 SEC Series - 18 SEC Series



DESCRIPTION:

Application

- Semi-axial submersible pumps are characterized by stages formed by body plus built-in casted stainless steel impeller and diffuser
- This kind of solution, compared to the radial ones, is excellent when medium-high flow-rates with an average head up, by equal radius, are requested

Specifics

- Water bath motor
- Maximum workin pressure: 200 mH2O
- Pumped liquid temperature: 30°C
- Maximum flow-rate: 96 m³/h
- Maximum starts per hour: 15
- Aspiration minimum level: 1 m

Materials

- Valve and suction cage body: spheroidal stainless cast iron (Ni-resist D2B/AISI 304)
- Bush bearing: brass/rubber
- Protected shaft: AISI 420
- Wearing rings, supplied spacer pipe for external jacket stage, cable protection, suction cage: AISI 304 stainless steel
- Impellers and diffusers: Noryl



Technical Data

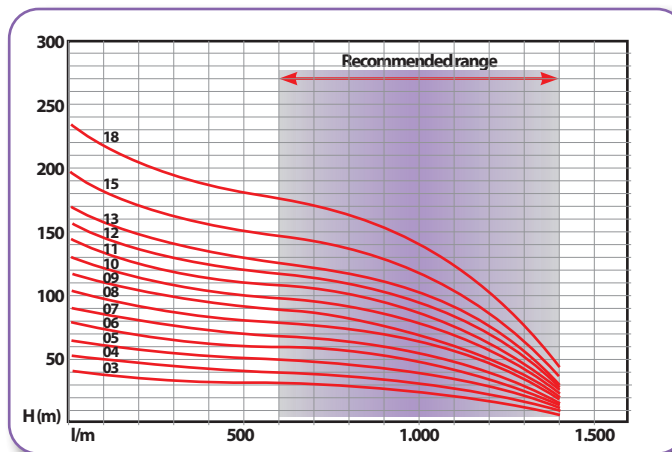
Electric Pumps > Vertical Axis, Submersible

> Semi-Axial 140 SEC Series Ø 6" - 18 SEC Series



140 SEC 66 Series
Ø 6" - FLOW-RATE 600 ÷ 1.400 L/M

Code	Type	HP	Kw	
PSSTG112	140REC66/03	7,5	5,5	400V
PSSTG100	140REC66/04	10,0	7,5	400V
PSSTG101	140REC66/05	12,5	9,2	400V
PSSTG102	140REC66/06	15,0	11,0	400V
PSSTG103	140REC66/07	17,5	13,0	400V
PSSTG104	140REC66/08	20,0	15,0	400V
PSSTG105	140REC66/09	25,0	18,5	400V
PSSTG106	140REC66/10	25,0	18,5	400V
PSSTG107	140REC66/11	30,0	22,0	400V
PSSTG108	140REC66/12	35,0	26,0	400V
PSSTG109	140REC66/13	35,0	26,0	400V
PSSTG110	140REC66/15	40,0	30,0	400V
PSSTG111	140REC66/18	50,0	37,0	400V



140 SEC 66 series operating curves

140 SEC 66 SUBMERSIBLE ELECTRIC PUMPS - TOTAL MANOMETRIC HEADS IN METERS

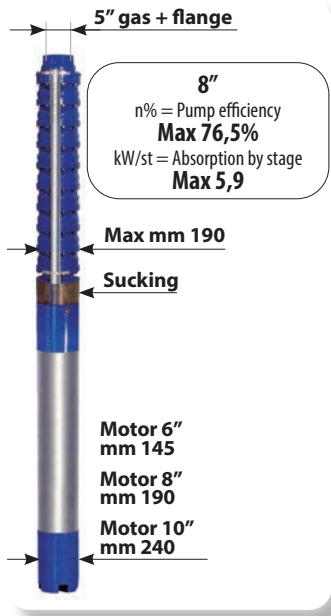
Type	Code	Nominal power		Flow rate							Delivery	Pump and motor unit	
				l/min	0	600	800	1.000	1.200	1.400		Length	Weight
		kW	HP	m ³ /h	0	36	48	60	72	84			
140 REC 66/3	PSSTG112	7,5	5,5	MH ₂ O	39	29	26	23	17	6	DN 3" GAS	1.285	21
140 REC 66/4	PSSTG100	10,0	7,5		52	39	35	31	23	8		1.422	25
140 REC 66/5	PSSTG101	12,5	9,2		65	49	44	39	29	10		1.579	30
140 REC 66/6	PSSTG102	15,0	11,0		78	59	53	47	34	12		1.746	34
140 REC 66/7	PSSTG103	17,5	13,0		91	69	62	55	40	14		1.883	39
140 REC 66/8	PSSTG104	20,0	15,0		104	78	70	62	46	16		2.080	43
140 REC 66/9	PSSTG105	20,0	15,0		117	88	79	70	51	18		2.187	48
140 REC 66/10	PSSTG106	25,0	18,5		130	98	88	78	57	20		2.354	52
140 REC 66/11	PSSTG107	30,0	22,0		143	108	97	86	63	22		2.541	57
140 REC 66/12	PSSTG108	30,0	22,0		156	118	106	94	68	24		2.648	61
140 REC 66/13	PSSTG109	30,0	22,0		169	127	114	101	74	26		2.755	66
140 REC 66/15	PSSTG110	35,0	26,0		195	147	132	117	86	30		3.079	75
140 REC 66/18	PSSTG111	50,0	37,0		234	176	158	140	103	36		3.560	88



Technical Data

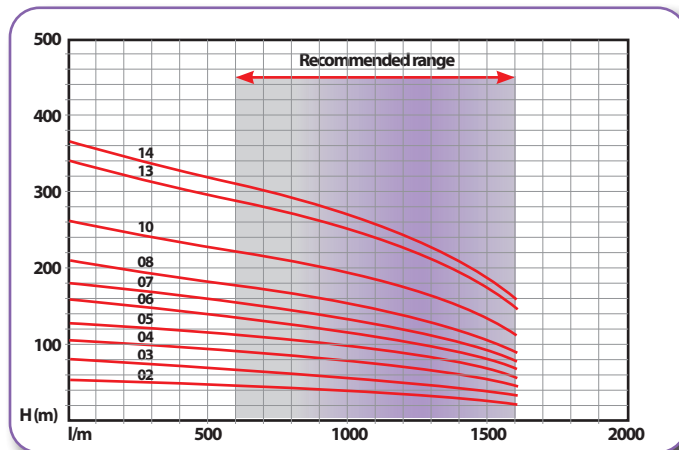
Electric Pumps > Vertical Axis, Submersible

> Semi-Axial 180 SEC Series Ø 8"



180 SEC 78 Series
Ø 8" - FLOW-RATE 600 ÷ 1.600 L/M

Code	Type	HP	Kw	
PSSTG400	180REC78/02	15,0	11,0	400V
PSSTG401	180REC78/03	20,0	15,0	400V
PSSTG402	180REC78/04	30,0	22,0	400V
PSSTG403	180REC78/05	35,0	26,0	400V
PSSTG404	180REC78/06	40,0	30,0	400V
PSSTG405	180REC78/07	50,0	37,0	400V
PSSTG406	180REC78/08	60,0	44,0	400V
PSSTG408	180REC78/10	75,0	55,0	400V
PSSTG410	180REC78/13	90,0	66,0	400V
PSSTG411	180REC78/14	100,0	75,0	400V



180 SEC 78 series operating curves

180 SEC 78 SUBMERSIBLE ELECTRIC PUMPS - TOTAL MANOMETRIC HEADS IN METERS

Type	Code	Nominal power		Flow rate								Delivery	Pump and motor unit	
				l/min	0	600	800	1.000	1.200	1.400	1.600		Length	Weight
					l/sec	0	10,00	13,33	16,67	20,00	23,33			
					0	36	48	60	72	84	96			
					m ³ /h									
180 REC 78/2	PSSTG400	11	15	MH2O	53	45	42	39	35	30	23	DN 5" GAS	1.463	31
180 REC 78/3	PSSTG401	15	20		79	67	63	58	53	44	34		1.708	39
180 REC 78/4	PSSTG402	22	30		105	89	84	78	70	59	45		1.973	48
180 REC 78/5	PSSTG403	26	35		131	111	105	97	88	74	56		2.208	56
180 REC 78/6	PSSTG404	30	40		158	134	126	116	105	89	68		2.403	64
180 REC 78/7	PSSTG405	37	50		184	156	147	136	123	103	79		2.618	73
180 REC 78/8	PSSTG406	44	60		210	178	168	155	140	118	90		2.525	81
180 REC 78/10	PSSTG408	55	75		263	223	210	194	175	148	113		2.885	98
180 REC 78/13	PSSTG410	66	90		341	289	273	252	228	192	146		3.330	122
180 REC 78/14	PSSTG411	75	100		368	312	294	271	245	207	158		3.535	131

Pumps

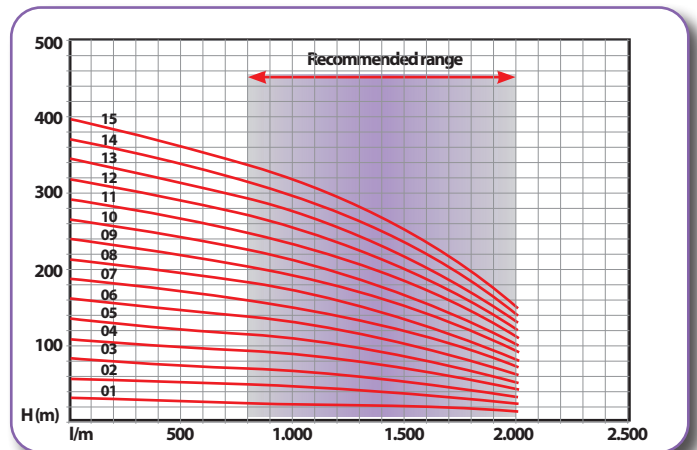


Technical Data

Electric Pumps > Vertical Axis, Submersible

180 SEC 90 Series Ø 8" - FLOW-RATE 800 ÷ 2.000 L/M

Code	Type	HP	Kw	
PSSTG420	180SEC90/1	10,0	7,5	400V
PSSTG423	180SEC90/2	17,5	13,0	400V
PSSTG425	180SEC90/3	25,0	18,5	400V
PSSTG427	180SEC90/4	35,0	26,0	400V
PSSTG428	180SEC90/5	40,0	30,0	400V
PSSTG429	180SEC90/6	50,0	37,0	400V
PSSTG430	180SEC90/7	60,0	44,0	400V
PSSTG431	180SEC90/8	75,0	55,0	400V
PSSTG432	180SEC90/9	75,0	55,0	400V
PSSTG433	180SEC90/10	90,0	66,0	400V
PSSTG434	180SEC90/11	90,0	66,0	400V
PSSTG435	180SEC90/12	100,0	75,0	400V
PSSTG436	180SEC90/13	100,0	75,0	400V
PSSTG437	180SEC90/14	125,0	92,0	400V
PSSTG438	180SEC90/15	125,0	92,0	400V



180 SEC 90 series operating curves

180 SEC 90 SUBMERSIBLE ELECTRIC PUMPS - TOTAL MANOMETRIC HEADS IN METERS

Type	Code	Nominal power		Flow rate									Delivery	Pump and motor unit	
				l/min	0	800	1.000	1.200	1.400	1.600	1.800	2.000		Length	Weight
					l/sec	0	13,33	16,67	20,00	23,33	26,67	30,00			
		kW	HP	m ³ /h	0	48	60	72	84	96	108	120		mm	Kg
180 REC 90/1	PSSTG420	7,5	10,0	MH20	26	22	21	20	18	15	13	10	DN 5" GAS	1.228	23
180 REC 90/2	PSSTG423	13,0	17,5		53	44	42	39	35	31	25	20		1.493	31
180 REC 90/3	PSSTG425	18,5	25,0		79	66	63	59	53	46	38	29		1.768	39
180 REC 90/4	PSSTG427	26,0	35,0		105	89	84	78	70	61	50	39		2.083	48
180 REC 90/5	PSSTG428	30,0	40,0		131	111	104	98	88	76	63	49		2.278	56
180 REC 90/6	PSSTG429	37,0	50,0		158	133	125	117	105	92	75	59		2.493	64
180 REC 90/7	PSSTG430	44,0	60,0		184	155	146	137	123	107	88	68		2.400	73
180 REC 90/8	PSSTG431	55,0	75,0		210	177	167	156	140	122	100	78		2.635	81
180 REC 90/9	PSSTG432	55,0	75,0		236	199	188	176	158	137	113	88		2.760	89
180 REC 90/10	PSSTG433	66,0	90,0		263	221	209	195	175	153	125	98		2.955	98
180 REC 90/11	PSSTG434	66,0	90,0		289	243	230	215	193	168	138	107		3.080	106
180 REC 90/12	PSSTG435	75,0	100,0		315	266	251	234	210	183	150	117		3.285	114
180 REC 90/13	PSSTG436	75,0	100,0		341	288	271	254	228	198	163	127		3.410	122
180 REC 90/14	PSSTG437	92,0	125,0		368	310	292	273	245	214	175	137		3.735	131
180 REC 90/15	PSSTG438	92,0	125,0		394	332	313	293	263	229	188	146		3.860	139

Pumps

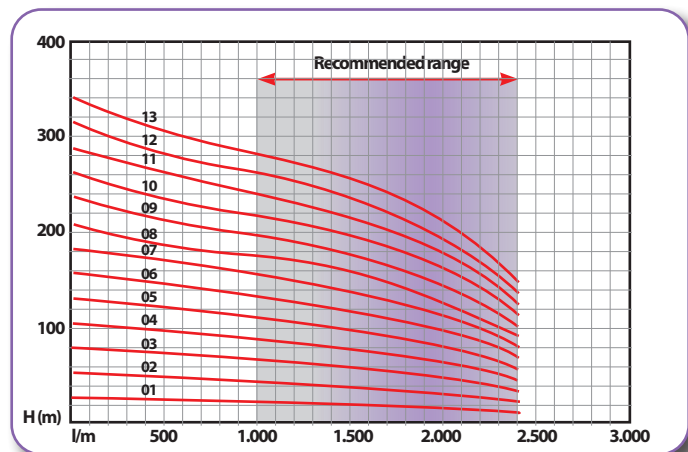


Technical Data

Electric Pumps > Vertical Axis, Submersible

180 SEC 102 Series Ø 8" - FLOW-RATE 1.000 ÷ 2.400 L/M

Code	Type	HP	Kw	
PSSTG440	180SEC102/1	10	7,5	400V
PSSTG443	180SEC102/2	20	15	400V
PSSTG445	180SEC102/3	30	22	400V
PSSTG447	180SEC102/4	40	30	400V
PSSTG448	180SEC102/5	50	37	400V
PSSTG449	180SEC102/6	60	44	400V
PSSTG450	180SEC102/7	75	55	400V
PSSTG451	180SEC102/8	75	55	400V
PSSTG452	180SEC102/9	90	66	400V
PSSTG453	180SEC102/10	100	75	400V
PSSTG454	180SEC102/11	100	75	400V
PSSTG455	180SEC102/12	125	92	400V
PSSTG456	180SEC102/13	125	92	400V



180 SEC 102 series operating curves

180 SEC 102 SUBMERSIBLE ELECTRIC PUMPS - TOTAL MANOMETRIC HEADS IN METERS

Type	Code	Nominal power		Flow rate											Delivery	Pump and motor unit	
				l/min	0	1.000	1.200	1.400	1.600	1.800	2.000	2.200	2.400	Length		Weight	
				l/sec	0	16,67	20,00	23,33	26,67	30,00	33,33	36,67	40,00				mm
m ³ /h	0	60	72	84	96	108	120	132	144								
180 REC 102/1	PSSTG440	7,5	10,0	MH ₂ O	26	22	21	20	19	18	16	14	11	DN 5" GAS	1.228	23	
180 REC 102/2	PSSTG443	15,0	20,0		53	44	42	40	38	35	32	28	22		1.583	32	
180 REC 102/3	PSSTG445	22,0	30,0		79	66	63	60	57	53	48	42	33		1.848	40	
180 REC 102/4	PSSTG447	30,0	40,0		105	87	84	80	76	71	65	55	45		2.153	49	
180 REC 102/5	PSSTG448	37,0	50,0		131	109	105	100	95	89	81	69	56		2.368	58	
180 REC 102/6	PSSTG449	44,0	60,0		158	131	126	120	114	106	97	83	67		2.275	66	
180 REC 102/7	PSSTG450	55,0	75,0		184	153	147	140	133	124	113	97	78		2.510	75	
180 REC 102/8	PSSTG451	66,0	90,0		210	175	168	160	152	142	129	111	89		2.705	83	
180 REC 102/9	PSSTG452	66,0	90,0		237	197	189	180	171	159	145	125	100		2.830	92	
180 REC 102/10	PSSTG453	75,0	100,0		263	219	210	200	190	177	161	139	111		3.035	101	
180 REC 102/11	PSSTG454	92,0	125,0		289	240	231	220	209	195	178	152	123		3.360	109	
180 REC 102/12	PSSTG455	92,0	125,0		315	262	252	240	228	213	194	166	134		3.485	118	
180 REC 102/13	PSSTG456	92,0	125,0		342	284	273	260	247	230	210	180	145		3.610	126	

Pumps