



# C.R.I. PUMPS

Pumping trust... Worldwide.



- Tough & Efficient for Long Life.
- Motor designed with High Cooling Effect.
- Technically Enriched Double Depth Working Capacity.
- 3D HT Technology for Long-lasting Performance.
- Specially Designed for More Sprinkler Operations.





## Vision, Mission and Values

To be the industry leader providing best-in-class fluid management solutions to individual and institutional customers and societies in our chosen markets.

We will achieve this through our dedicated efforts to enhance the welfare of all our stakeholders and by living by our values of **Commitment, Reliability and Innovation.**





## ABOUT C.R.I.

C.R.I. ranks high among the world's fastest-growing fluid management solutions provider with a wide global presence. C.R.I. offers Pumps, Motors, IoT Driven Pumps, IoT Drives & Controllers, Pipes, Wires & Cables, Solar Pumps and Controllers to meet the pumping needs of its wide customer base.



**60+** Years  
of Engineering  
Expertise



**120+** Countries  
have our strong  
global presence



**21+**  
Manufacturing Units  
around the World



**30000+** Outlets  
to serve our  
Customers



**9000+**  
Products for various  
applications



**1500+**  
Service Centres to  
support our Customers



**16 Times**  
EEPC Award Winner  
for Export Excellence



**8 Times**  
NEC Award Winner  
for Energy Savings



**Fludyn Advanced Technology  
Centre** Recognized by Ministry of  
Science & Technology, Govt. of India.

**C.R.I. PIPES** - C.R.I.'s state-of-the-art manufacturing facility at Ahmedabad & Hosur produces all kinds of best quality PVC, UPVC, CPVC Pipes & Fittings. The plants are empowered with fully automated machines that control the manufacturing process.

**C.R.I. WIRES & CABLES** - C.R.I.'s Wires & Cables are manufactured at its state-of-the-art manufacturing facility. The systems at the manufacturing facility are ISO-9001 certified and the products manufactured to meet the relevant standards.

**C.R.I. SOLAR PUMPING SYSTEM** - C.R.I. manufactures sustainable Solar Pumping Systems designed to work with best in class efficiency. With this C.R.I. emphasizes its focus towards greener technology.





## 100mm Borewell Submersible Pumpset - GENIE Series

C.R.I. Genie 100 mm Borewell submersible pump is firmly coupled to a submersible electric motor which operates submerged beneath the surface of water. The optimal design of impeller and diffuser enables the best possible hydraulic efficiency. Built-in check valve prevents back flow and reduces the risk of water hammering.

### SALIENT FEATURES

- More durability and hygiene
- High operating efficiency
- Specially designed thrust bearing to withstand high axial thrust load
- Extremely hardwearing water lubricated bearing
- Thread type motor construction ensures rigidity & service feasibility
- Designed for wide voltage operation
- Additional intermediate bearing in higher stage pumps

### APPLICATION

- Rural water supply
- Sprinkler system
- Pressure boosting units
- Fire fighting system
- Industrial and mining application
- Fountains

### SPECIFICATIONS

	GENIE Series
Power range	2.2 kW - 5.5 kW (3 HP - 7.5 HP)
Speed	2850 RPM
Version	Single phase 220-240V; Three phase 380-415V, 50Hz, A.C. Supply
Maximum total head	568 Metre
Maximum flow rate	7 LPS (25.20 m <sup>3</sup> /hr)
Maximum outer diameter	98 mm
Thrust load	0.37kW - 0.75kW - 650 lbs; 1.1kW - 1.5kW - 1000 lbs; 2.2kW - 7.5kW - 1500 lbs
Minimum cooling flow along the motor	0.15 m/sec
Type of duty	S1 (Continuous)
Method of starting	1Ph -Capacitor Start Capacitor Run(CSCR); 3Ph -Direct Online(D.O.L)
Maximum starts per hour	20 times
Nominal outlet size	32, 40, 50 & 65 mm





# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

**RADIAL FLOW**

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr lps	0	0.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24
						0	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
CRI4F-2/3/32*	2.2	3	32	32	Head in Metres	245	238	231	223	211	192	168	141	
CRI4R-2/3/32*	2.2	3	32	40		231	225	218	205	191	176	158	135	
CRI4R-2/3/40*	2.2	3	40	40		278	264	253	240	221	202	176	146	
CRI4R-2/5/52*	3.7	5	52	40		359	347	334	315	290	258	228	191	152
CRI4R-2/7.5/65	5.5	7.5	65	40		466	437	418	390	357	320	283	242	
CRI4R-2/7.5/70	5.5	7.5	70	32/40		497	472	451	421	388	346	300	254	

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr lps	0	0.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24	Star Rating
						0	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	
CRI4R-2N/3/25	2.2	3	25	32	Head in Metres	183	167	158	146	134	119	102	83	65	
CRI4R-2N/3/30	2.2	3	30	32		220	198	184	169	155	138	115	94	73	
CRI4R-2N/3/32*	2.2	3	32	32/40		241	224	210	194	178	160	139	115	88	2
CRI4R-2N/3/35*	2.2	3	35	32/40		261	240	224	206	189	169	145	119	90	3
CRI4R-2N/3/38*	2.2	3	38	32/40		279	256	240	223	201	179	153	121		2
CRI4R-2N/4/42*	3	4	42	32		313	286	269	250	228	202	174	143	113	2
CRI4R-2N/4/50*	3	4	50	32		369	338	315	292	266	234	198	166	125	
CRI4R-2N/5/52*	3.7	5	52	32/40		388	353	332	309	283	252	216	176	133	2
CRI4R-2N/6/60	4.5	6	60	32/40		459	426	401	368	329	298	251	201	151	
CRI4R-2N/7.5/70	5.5	7.5	70	32		532	487	454	425	384	347	294	235	176	
CRI4R-2N/7.5/75	5.5	7.5	75	32		568	530	501	456	410	364	314	251	201	

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr lps	0	1.44	1.8	2.16	2.52	2.88	3.24	3.6	3.96	4.32
						0	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2
CRI4R-3/3/25*	2.2	3	25	32	Head in Metres	213	185	175	164	150	135	118	97	77	59
CRI4R-3/3/30*	2.2	3	30	32		250	216	204	188	171	150	130	109	90	66
CRI4R-3/4/40	3	4	40	40		331	282	267	248	225	195.5	166.5	138	110	80
CRI4R-3/5/50	3.7	5	50	40		417	353	332	303.5	273	240.5	204	168.5	133.5	97
CRI4R-3/6/60	4.5	6	60	40		498	423	397	364	329.5	292.5	248.5	203	160	120.5

\* Marked pumpsets are having ISI licence.



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

**RADIAL FLOW**

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE										Star Rating
					m <sup>3</sup> /hr	0	1.80	2.16	2.52	2.88	3.24	3.60	4.32	5.04	
					lps	0	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	
CRI4R-3E/3/24*	2.2	3	24	32/40	Head in Metres	182	171	167	162	157	148	138	120	86	3
CRI4R-3E/3/26*	2.2	3	26	32/40		184	167	162	157	152	147	141	123	94	
CRI4R-3E/5/40*	3.7	5	40	32/40		301	272	264	254	240	222	200	152	113	
CRI4R-3E/6/43*	4.5	6	43	32/40		308	280	270	255	240	227	212	171		
CRI4R-3E/7.5/43	5.5	7.5	43	32/40		313	285	275	260	245	232	217	176		
CRI4R-3E/7.5/54*	5.5	7.5	54	32/40		412	389	382	374	362	346	319	259		2

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE										Star Rating
					m <sup>3</sup> /hr	0	3.24	3.60	4.32	5.04	5.76	6.48	7.20	7.92	
					lps	0 <td>0.9</td> <td>1.0</td> <td>1.2</td> <td>1.4</td> <td>1.6</td> <td>1.8</td> <td>2.0</td> <td>2.2</td> <td></td>	0.9	1.0	1.2	1.4	1.6	1.8	2.0	2.2	
CRI4R-5/3/12	2.2	3	12	50	Head in Metres	89	78	76	71	65	58	47	35	23	
CRI4R-5/3/15*	2.2	3	15	40		111	97	95	89	82	71	59	45	30	3
CRI4R-5/3/18*	2.2	3	18	40/50		132	116	113	104	95	85	71	53	35	3
CRI4R-5/5/25*	3.7	5	25	40/50		181	158	154	144	134	121	101	77		3
CRI4R-5/5/27*	3.7	5	27	40/50		192	169	164	153	138	121	99	75		
CRI4R-5/5/32*	3.7	5	32	40		215	177	173	161	141	118	97	77		

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE										Star Rating			
					m <sup>3</sup> /hr	0	2.88	3.24	3.60	4.32	5.04	5.76	6.48	7.20		7.92	8.64	9.36
					lps	0 <td>0.8</td> <td>0.9</td> <td>1.0</td> <td>1.2</td> <td>1.4</td> <td>1.6</td> <td>1.8</td> <td>2.0</td> <td>2.2</td> <td>2.4</td> <td>2.6</td> <td></td>	0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	
CRI4R-5E/5/37*	3.7	5	37	40	Head in Metres	224	200	196	191	182	169	156	143	124				2
CRI4R-5E/7.5/56	5.5	7.5	56	40		335	293	286	279	261								

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE										Star Rating		
					m <sup>3</sup> /hr	0	2.88	3.24	3.6	4.32	5.04	5.76	6.48	7.2		7.92	8.64
					lps	0 <td>0.8</td> <td>0.9</td> <td>1</td> <td>1.2</td> <td>1.4</td> <td>1.6</td> <td>1.8</td> <td>2</td> <td>2.2</td> <td>2.4</td> <td></td>	0.8	0.9	1	1.2	1.4	1.6	1.8	2	2.2	2.4	
CRI4R-5N/5/37	3.7	5	37	50	Head in Metres	228	201	197	193	182	171	157	136	112	92	69	
CRI4R-5N/5/40	3.7	5	40	50		229	201	198	193	183	171	157	138	112	93	70	
CRI4R-5N/7.5/50	5.5	7.5	50	50		312	276	271	266	254	240	221	201	176	145	102	
CRI4R-5N/7.5/56	5.5	7.5	56	50		343	301	295	289	275	259	237	210	180	146	100	

\* Marked pumpsets are having ISI licence.





# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

																	RADIAL FLOW	
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	2.88	3.24	3.60	4.32	5.04	5.76	6.48	7.20	7.92	8.64	9.36	10.08
						0	0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8
CRI4R-7/3/20*	2.2	3	20	40	Head in Metres	141	124	122	119	114	108	102	94	85	76	66	55	
CRI4R-7/5/30	3.7	5	30	40/50		203	178	174	170	164	153	143	130	118	105	90	75	
CRI4R-7E/7.5/36	5.5	7.5	36	40/50		236	219	216	214	207	201	194	185	176	165	150	151	
CRI4R-7N/7.5/36	5.5	7.5	36	40		241	235	228	220	210	205	200	187	175	164	146	129	109

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	4.32	5.04	5.76	7.20	7.92	9.36	10.80	Star Rating
						0	1.2	1.4	1.6	2.0	2.2	2.6	3.0	
CRI4R-8/3/12*	2.2	3	12	50	Head in Metres	89	76	74	70	60	54	42	25	
CRI4R-8/3/14*	2.2	3	14	40/50		102	90	87	83	71	64	51	37	5/2
CRI4R-8/5/14	3.7	5	14	50		104	92	89	85	73	66	53	39	5/2
CRI4R-8/5/17	3.7	5	17	50		124	107	103	99	85	78	62	41	
CRI4R-8/5/20*	3.7	5	20	50		147	131	127	122	108	99	79	57	
CRI4R-8/5/23*	3.7	5	23	40/50		168	146	141	135	120	109	88	62	2
CRI4R-8/6/28	4.5	6	28	40		200	172	166	159	140	129	104	78	
CRI4R-8/7.5/34*	5.5	7.5	34	40		232	215	209	197	169	154	127	85	

																	MIXED FLOW	
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	5.40	7.20	9.00	10.80	12.60	14.40	16.20					
						0	1.5	2.0	2.5	3.0	3.5	4.0	4.5					
CRI4M-8E/5/17	3.7	5	17	50	Head in Metres	108	96	85	70	55	40							
CRI4M-13/3/9	2.2	3	9	50		47		41	38	35	31	26	20					
CRI4M-13/5/12	3.7	5	12	50		50	48	45	41	32	24							
CRI4M-13/5/14*	3.7	5	14	50		67	61	56	51	44	37							

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# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	7.92	10	12	14	15.85	18	20
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
						lps	2.2	2.8	3.3	3.9	4.4	5.0	5.6
CRI4M-14/3/07	2.2	3	7	50	Head in Metres	38	33	30	29	22	18	14	9
CRI4M-14/3/09*	2.2	3	9	50		52.5	40	36.5	31.5	25.5	20.5	13	5.5
CRI4M-14/3/10*	2.2	3	10	50		57.5	46	41.5	35	28.5	22.5	15.5	7
CRI4M-14/5/12	3.7	5	12	50		69.5	56.5	50	42.5	35.5	29	21	10.5
CRI4M-14/5/14	3.7	5	14	50		79.5	63.5	57.5	49	41	33	23.5	14
CRI4P-14/3/10	2.2	3	10	50		59	49	45	40	34	29	22	15

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	12.6	14.4	16.2	18.0	19.8	21.6	23.4	25.2
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	
						lps	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
CRI4P-20/3/06	2.2	3	6	65	Head in Metres	39	30	28	25	23	20	17	14	11
CRI4P-20/3/07	2.2	3	7	65		44	33	31	29	26	23	20	17	14
CRI4P-20/5/10	3.7	5	10	65		63	50	46	43	39	35	30	27	23

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	12.6	14.4	16.2	18	19.8	21.6	23.4	25.2
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	
						lps	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
CRI4M-20/3/06	2.2	3	6	65	Head in Metres	36	28	27	26	25	23	21	17	17
CRI4M-20/3/07	2.2	3	7	65		41	32	31	29	28	25	24	22	20
CRI4M-20/3/08	2.2	3	8	65		46	36	34	33	31	29	27	24	21
CRI4M-20/5/10	3.7	5	10	65		60	48	46	44	43	41	38	35	32
CRI4M-20/7.5/14	5.5	7.5	14	65		79	64	62	59	57	55	52	48	43

\* Marked pumpsets are having ISI licence.





# MATERIAL OF CONSTRUCTION

## 100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

### MOTOR

Part Name	Material
Shaft seal	Nitrile butyl rubber
Rotor Shaft	SS 410 / 431
Stator Shell	SS 441 / SS 304
Journal bushes	Carbon
Snap ring	SS 316
Thrust assembly	SS 420 & Graphite Carbon
Diaphragm	High Nitrile butyl rubber
Motor base	Cast iron

### PUMP

Part Name	Material
Suction housing	Cast iron
Impeller	Noryl / Delrin
Diffuser chamber	SS 304 / Cast Iron / Noryl
Check valve housing	Cast iron
Check valve	Delrin
Outer shell	SS 441 / SS 304
Pump shaft	SS 304 / SS 410 / SS 431
Counter thrust pad	SS 304 / Hylem
Intermediate bearing (Sleeve / Bush)	SS 304 / NBR / LTB 4 / Teflon Carbon / Gunmetal with rubber
Coupling	SS 304 / 410





## 125mm/100mm Borewell Submersible Pumpset - NILE<sup>+</sup> Series

C.R.I. Nile+ 125mm/100mm Borewell Submersible Pumpset is firmly coupled to a submersible electric motor which operates submerged beneath the surface of water. The optimal design of impeller and diffuser enables the best possible hydraulic efficiency. Built-in check valve prevents back flow and reduces the risk of water hammering.

### SALIENT FEATURES

- T - Bolt design in all Motor ensures rigid construction
- Specially designed Deep Drawn type pump ensures perfect alignment and thereby increases the life of the pumpset
- High operating efficiency and more durability
- Specially designed Thrust Bearings to withstand high axial thrust loads
- Designed for Wide Voltage operation
- Best suitable for 150mm under size borewell

### APPLICATION

- Agricultural & Irrigation
- Sprinkler system
- Domestic water supply
- Pressure boosting
- Industrial and Mining

### SPECIFICATIONS

	NILE <sup>+</sup> Series
Power range	3.7 kW – 7.5 kW (5 HP to 10 HP)
Speed	2850 RPM
Version	Single phase 220 - 240V; Three phase 380 – 415V, 50Hz, A.C. Supply
Maximum total head	650 Metre
Maximum flow rate	3 LPS (10.8 m <sup>3</sup> /hr)
Maximum outer diameter	124 mm
Thrust load	2.2kW – 4.5kW – 3500lbs; 5.5kW – 7.5kW – 6000lbs
Minimum cooling flow along the motor	0.15 m/sec
Type of duty	S1 (Continuous)
Method of starting	Direct Online (D.O.L) / Star Delta (SD)
Maximum starts per hour	20 times
Nominal outlet size	32 & 40 mm





# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 125mm/100mm BOREWELL SUBMERSIBLE PUMPSET - NILE+ Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE									
					m <sup>3</sup> /hr	0	0.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24
					lps	0	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
CRI4R-2/5/52	3.7	5	52	40	Head in Metres	380	353	332	305	273	236	194	148	99
CRI4R-2/6/60	4.5	6	60	40	Head in Metres	442	410	391	370	343	307	262	211	
CRI4R-2/7.5/75	5.5	7.5	75	40	Head in Metres	544	504	483	459	428	378	310	241	

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE									
					m <sup>3</sup> /hr	0	1.80	2.16	2.52	2.88	3.24	3.60	4.32	5.04
					lps	0	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4
CRI4R-3E/5/40	3.7	5	40	40	Head in Metres	320	274	260	245	228	209	188	142	91
CRI4R-3E/6/43	4.5	6	43	40	Head in Metres	335	318	310	298	284	268	252	210	
CRI4R-3E/7.5/54	5.5	7.5	54	40	Head in Metres	427	371	358	343	327	308	284	222	

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE											
					m <sup>3</sup> /hr	0	1.8	2.16	2.52	2.88	3.24	3.6	4.32	5.04	5.76	6.48
					lps	0	0.5	0.6	0.7	0.8	0.9	1	1.2	1.4	1.6	1.8
CRI4R-3F/10/100	7.5	10	100	40	Head in Metres	553	479	461	439	417	392	367	312	282	202	152
CRI4R-3F/10/113	7.5	10	113	40	Head in Metres	650	572	553	527	493	458	425	356	284	179	

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 125mm/100mm BOREWELL SUBMERSIBLE PUMPSET - NILE+ Series

### RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE								
						0	2.88	3.24	3.60	4.32	5.04	5.76	6.48	7.20
					lps	0	0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0
CRI4R-5/5/25	3.7	5	25	40	Head in Metres	181		158	154	144	134	121	101	77
CRI4R-5/5/32	3.7	5	32	40		227		198	192	179	163	148	118	83
CRI4R-5E/5/37	3.7	5	37	40		221	200	196	193	182	168	152	132	112
CRI4R-5E/7.5/56	5.5	7.5	56	40		325	277	270	263	246				

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE							
						0	4.32	5.04	5.76	7.20	7.92	9.36	10.80
					lps	0	1.2	1.4	1.6	2.0	2.2	2.6	3.0
CRI4R-8/5/28	3.7	5	28	40	Head in Metres	193	172	167	160	139	127	100	69
CRI4R-8/6/28	4.5	6	28	40		203	177	172	165	143	131	103	71
CRI4R-8/7.5/34	5.5	7.5	34	40		244	216	210	201	176	160	127	91





# MATERIAL OF CONSTRUCTION

## 125mm/100mm BOREWELL SUBMERSIBLE PUMPSET - NILE+ Series

MOTOR	
Part Name	Material
Upper & Lower Housing	Cast Iron
Stator Shell	SS 304
Shaft	SS 410
Journal Bushes	LTB - 4
Thrust Assembly	SS 420 and Graphite Carbon
Diaphragm	High Nitrile Butyl Rubber

PUMP	
Part Name	Material
Check Valve & Suction Housing	Cast Iron
Pump Shaft	SS 304
Impeller	Noryl
Stage Casing	SS 304
Coupling	SS 410
Bracket Bush	LTB - 4 / Nitrile Rubber
Bracket Sleeve	SS 410



## 125mm Borewell Submersible Pumpset - NILE Series

C.R.I. Nile 125mm Borewell Submersible Pumpset are powered by water filled, rewindable submersible motor suitable for continuous duty. The optimal design of impeller and diffuser enables the best possible hydraulic efficiency. Built-in check valve prevents back flow and reduces the risk of water hammering.

### SALIENT FEATURES

- T-Bolt design motor ensures rigid construction
- Anti corrosive SS410 casted impellers ensures longer life of Pump sets
- Optimised Hydraulic design for Efficient Performance
- Specially Designed thrust bearing to withstand high axial thrust loads
- Best suitable for 150 mm undersize borewell applications

### APPLICATION

- Irrigation
- Drip and sprinkler applications
- Civil and industrial water supply
- Farms & Gardens
- Rural water supply

### SPECIFICATIONS

	NILE Series
Power range	2.2 kW to 5.5 kW (3 HP to 7.5 HP)
Speed	2850 RPM
Version	Three phase 380 – 415V; 50Hz AC Supply
Maximum total head	60 Metre
Maximum flow rate	12.5 LPS (45 m <sup>3</sup> /hr)
Maximum outer diameter	130 mm
Thrust load	2.2 kW – 4.5 kW – 3500 lbs; 5.5 kW – 7.5 kW – 6000 lbs
Minimum cooling flow along the motor	0.15 m/sec
Type of duty	S1 (Continuous)
Method of starting	Direct Online (D.O.L)
Maximum starts per hour	20 times
Nominal outlet size	80 mm





# PERFORMANCE CHART

2850 RPM - At Rated Voltage – Three Phase 380-415V, 50Hz, A.C. Supply.

## 125mm BOREWELL SUBMERSIBLE PUMPSET - NILE Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	5	10	15	20	25	27	30	35	40	45
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	1.4	2.8	4.2	5.6	6.9	7.5	8.3	9.7	11.1	12.5
CRI5M-27/3/3	2.2	3	3	80	Head in Metres	23	21	19	18	16	15	14	13	11	9	6
CRI5M-27/4/4	3	4	4	80	Head in Metres	31	29	26	25	22	21	20	19	17	14	9
CRI5M-27/5/5	3.7	5	5	80	Head in Metres	37	34	32	30	27	25	24	23	20	15	11
CRI5M-27/6/6	4.5	6	6	80	Head in Metres	45	42	39	36	33	31	30	29	25	21	15
CRI5M-27/7.5/8	5.5	7.5	8	80	Head in Metres	60	57	53	49	45	42	41	39	35	29	21

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	8	12	16	20	24	28	32	36	38	40
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	2.22	3.33	4.44	5.55	6.66	7.77	8.88	10.0	10.55	11.11
CRI5M-28/5/4	3.7	5	4	80	Head in Metres	43	39	36	34	33	30	27	25	17	15	11

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	5	10	15	20	25	27	30	35	40	45
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	1.4	2.8	4.2	5.6	6.9	7.5	8.3	9.7	11.1	12.5
CRI5M-30/7.5/5	5.5	7.5	5	80	Head in Metres	50	48	46	43	40	38	37	35	28	19	8.5

### MATERIAL OF CONSTRUCTION - MOTOR

Part Name	Materials
Upper & Lower Housing	Cast Iron
Stator Shell	SS 304
Rotor	Copper Rotor
Journal Bushes	LTB - 4
Thrust Assembly	SS 420 and Graphite Carbon
Diaphragm	High Nitrile Butyl Rubber
Sand Guard	Rubber Nitrile and SS 304

### MATERIAL OF CONSTRUCTION - PUMP

Part Name	Materials
Valve housing & Suction Housing	Cast Iron
Pump Shaft	SS 410
Impeller	SS 410
Stage Casing	Cast Iron
Coupling	SS 410
Bracket Bush	LTB - 4 / Nitrile Rubber
Sleeve	SS 410

## 150mm Borewell Submersible Pumpset - DELMA Series

CRI 150mm Borewell Submersible Pumpset are powered by water filled, rewindable submersible motor suitable for continuous duty. T-Bolt design in all motor ensures rigid construction. Optimal design of impellers and diffusers offers best possible hydraulic efficiency. Built-in check valve prevents back flow and reduces the risk of water hammering.

### SALIENT FEATURES

- Optimized hydraulic design for efficient performance
- Specially designed thrust bearing to withstand high axial load
- T-Bolt design motor ensures rigid construction
- Smooth surface finish results friction free flow of fluid
- Designed for wide voltage applications
- SS 304 grade stainless steel stage casings and impellers in radial flow series
- Horizontal application model available

### APPLICATION

- Agriculture
- Domestic
- Irrigation
- Gardens
- Civil & Industrial water supply
- Rural Water Supply
- Ponds
- Firefighting
- Pressure boosting

### SPECIFICATIONS

	DELMA Series
Power range	1.5 kW - 37 kW (2 HP - 50 HP)
Speed	2850 RPM
Version	Single phase 220 - 240V; Three phase 380 – 415V, 50Hz, A.C. Supply
Maximum total head	516 Metre
Maximum flow rate	22 LPS (79.2 m <sup>3</sup> /hr)
Maximum outer diameter	147 mm
Thrust load	1.1 kW - 4.5 kW - 3500 lbs, 5.5 kW - 22 kW - 6000 lbs
Type of duty	S1 (Continuous)
Method of starting	3Ph - Direct Online (D.O.L) / Star Delta (SD)
Maximum starts per hour	20 times
Nominal outlet size	50, 65, 80 & 100 mm





# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 130mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Sleek Series

### RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	3.6	4.5	5.4	6.3	7.2	8.1	9	9.9	10.8	11.7
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25
WC6BL-8/3/08	2.2	3	8	50	Head in Metres	87	80	77	73.5	69	62	53.5	43	33.5	22	10
WC6BL-8/5/12	3.7	5	12	50		137	125	122	120.5	111	103	92	79	64	48	30
WC6BL-8/7.5/16	5.5	7.5	16	50		179	163	157	150	138	126	106	86.5	66	45	22.7
WC6BL-8/7.5/18	5.5	7.5	18	50		190	179	175	171	165	159	148	134	116	97.5	77

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	2.7	3.6	4.7	5.4	7.2	9	10.8	12.6	14.4
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	0.75	1	1.3	1.5	2	2.5	3	3.5	4
WC6BL-10/3/06	2.2	3	6	50	Head in Metres	72	69	67	64.5	63	58	50	38	25	10
WC6BL-10/5/10	3.7	5	10	50		117	112	110	107	104	96	84	66	46	24
WC6BL-10/7.5/14	5.5	7.5	14	50		165	156.5	153.5	149	146	135	116	89.5	60	30
WC5BL-10/7.5/15	5.5	7.5	15	50		170	164	161	157.5	155	147	135	113	93	66.5

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	2.7	3.6	4.7	5.4	7.2	9	10.8	12.6	14.4	16.2	18
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	0.75	1	1.3	1.5	2	2.5	3	3.5	4	4.5	5
WC6BL-14/3/05	2.2	3	5	50	Head in Metres	57	56	55.5	54.5	54	51.5	49	46	41	35	27	17
WC6BL-14/5/08	3.7	5	8	50		88	86	84	83	82	79	75	69	60	47	34	30
WC6BL-14/6/10	4.5	6	10	50		105.5	104	103	102	101	98	95	88	79	70	58	43
WC6BL-14/7.5/12	5.5	7.5	12	50		134	131.5	130.5	128	126.5	122	116.5	108.5	94.5	78	59.5	39

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	3.6	4.5	5.4	7.2	9	10.8	12.6	14.4	16.2	18	19.8	21.6
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	
					lps	0	1	1.25	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
WC6BL-16/3/04	2.2	3	4	65	Head in Metres	45	44.5	44	43.5	43	42.5	41.5	39.5	36	33	28.5	24	18.5
WC6BL-16/5/06	3.7	5	6	65		68	67	66.5	65.5	64	62	60	57	51.5	44	35.5	26	17
WC6BL-16/6/08	4.5	6	8	65		91	89.5	88.5	87.5	85.5	82.5	78.5	69.5	62	51.5	41	29	19
WC6BL-16/7.5/10	5.5	7.5	10	65		117	115	114	112.5	109	105	100	88	81	67	54	36.5	21

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 130mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Sleek Series

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE												
						RADIAL FLOW												
						0	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18	19.8	21.6	23.4	25.2
					0	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	
WC6BL-23/3/03	2.2	3	3	65	Head in Metres	36	34.5	34	32.5	31.5	30	28.5	25.5	23	20.5	18.5	16.5	11
WC6BL-23/5/05	3.7	5	5	65	59	56	55	54	52.5	51	49	46	42	39	35	31	26	
WC6BL-23/6/06	4.5	6	6	65	72	69	67.5	65	63	60	56	50	46.5	42	35	29.5	22.5	
WC6BL-23/7.5/08	5.5	7.5	8	65	94	89	87.5	85.5	83	80	74	68	62	55	48	41.5	31.5	

## 100/150mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Series

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE							
						RADIAL FLOW							
						0	2	4	6	8	10	12	13.5
					0	0.55	1.11	1.66	2.22	2.77	3.33	3.75	
CRI6R-09/02/05S-4	1.5	2	5	50	Head in Metres	48	44	40	35	30	23	16	9
CRI6R-09/02/07S-4	1.5	2	7	50	68	62	55	48	40	33	24	14	

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE					
						RADIAL FLOW					
						0	5	10	15	20	21.5
					0	1.38	2.77	4.16	5.55	5.97	
CRI6R-15/02/04S-4	1.5	2	4	50	Head in Metres	35	34	30	23	13	10

NOTE : CRI6R - 09 & 15 are PP Impeller Models



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Series

**RADIAL FLOW**

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr lps	0	2	4	6	8	10	12	13.5
						DISCHARGE							
S6R-09/2/05	1.5	2	5	50	Head in Metres	48	44	40	35	30	23	16	9
S6R-09/2/07	1.5	2	7	50		68	62	55	48	40	33	24	14
S6R-09/3/08	2.2	3	8	50		69	63	56	48	39	30	18	5
S6R-09/3/10	2.2	3	10	50		82	74	62	51	41	30	15	

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr lps	0	5	10	15	20	21.5
						DISCHARGE					
S6R-15/2/04	1.5	2	4	50	Head in Metres	35	34	30	23	13	10
S6R-15/3/05	2.2	3	5	50		41	37	33	25	13	8
S6R-15/3/06	2.2	3	6	50		47	43	37	26	13	8

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr lps	0	2.7	3.6	4.7	5.4	7.2	9	10.8	12.6	Star Rating
						DISCHARGE									
S6G-8/3/10*	2.2	3	10	50	Head in Metres	98	88	85.5	83	77	72	60	39		
WC6BA-08/5/20 SPL	3.7	5	20	50		191	172	162	157	149	116	83			
SG-8/6/20	4.5	6	20	50		197	177	167	162	154	120	88			
WC6BA-08/7.5/30 SPL	5.5	7.5	30	50		278	257	255	245	228	180	120			
S6G-8/7.5/30 SPL	5.5	7.5	30	50		278	257	255	245	228	180	120			
WC6BA-08/7.5/33 SPL	5.5	7.5	33	50		274	254	250	243	228	182	123			
WC6BA-08/10/33*	7.5	10	33	50		282	262	258	250	235	188	127			
S6G-08/12.5/40*	9.3	12.5	40	50		391	361	352	339	323	275	198			
S6G-9/3/8*	2.2	3	8	50		81		77	74	72	63	52	39	25	
S6G-9/5/12*	3.7	5	12	50		121		112	111	110	102	86	63	36	
CRI6R-09/5/12*	3.7	5	12	50		121		112	111	110	102	86	63	36	3 Star

NOTE : S6R - 09 & 15 are PP Impeller Models \* Marked pumpsets are having ISI licence.

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Series

													RADIAL FLOW		
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	5.4	7.2	9	10.8	12.6	14.4	16.2	Star Rating	
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE		DISCHARGE
					Head in Metres	0	1.5	2	2.5	3	3.5	4	4.5		
S6G-11/3/6*	2.2	3	6	50			59	53	48	40	30	18	5		
S6G-11/5/10*	3.7	5	10	50	103		97	95	88	75	57	36	16		
S6G-11/6/12*	4.5	6	12	50	123		115	109	98	83	63	40	16		
S6G-11/7.5/14*	5.5	7.5	14	50	158		148	141	129	112	89	63	34		
CRI6R-11/7.5/16 SD*	5.5	7.5	16	50	178		164	155	140	119	93	61	29	3 Star	
S6G-11/7.5/16	5.5	7.5	16	50	178		164	155	140	119	93	61	29		
CRI6R-11/10/20*	7.5	10	20	50	205		198	193	179	156	124	84	39	3 Star	
S6G-11/15/30	11	15	30	50	333		276	274	268	230	182	122	54		
WC6BA-11/25/50*	18.5	25	50	50	516		460	450	405	323	256	222	95		

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	7.2	9	10.8	12.6	14.4	16.2	18	Star Rating	
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE		DISCHARGE
					Head in Metres	0	2	2.5	3	3.5	4	4.5	5		
CRI6R-14/3/5	2.2	3	5	50			59	53	50	47	42	34	23	11	
S6G-14/3/5*	2.2	3	5	50	59		53	50	47	42	34	23	11		
CRI6R-14/5/8*	3.7	5	8	50	90		86	82	76	68	57	46	35	3 Star	
S6G-14/5/8*	3.7	5	8	50	90		86	82	76	68	57	46	35		
S6G-14/6/10*	4.5	6	10	50	106		105	101	93	82	69	55	38		
CRI6R-14/7.5/12 SD*	5.5	7.5	12	50	127		120	115	109	96	84	70	47	3 Star	
S6G-14/7.5/12*	5.5	7.5	12	50	127		120	115	109	96	84	70	47		
CRI6R-14/10/14*	7.5	10	14	50	165		152	144	133	120	103	80	56	3 Star	
CRI6R-14/10/16*	7.5	10	16	50	172		160	151	142	129	108	94	65	3 Star	
S6G-14/15/25*	11	15	25	50	261		250	237	220	194	165	122	88		
WC6BA-14/17.5/30*	13	17.5	30	50	349		310	293	272	242.5	202	152	107		
CRI6R-14/20/30*	15	20	30	50	360		320	302	280	250	208	157	110	3 Star	

\* Marked pumpsets are having ISI licence.





# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Series

**RADIAL FLOW**

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	9	10.8	12.6	14.4	16.2	18	19.8	21.6
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
						lps	2.5	3	3.5	4	4.5	5	5.5	6
S6G-18/3/4*	2.2	3	4	50	Head in Metres	44	39	37	34	32	28	25	20	15
CRI6R-18/5/6*	3.7	5	6	50		60	57	56	54	51	46	40	32	26
S6G-18/5/6*	3.7	5	6	50		60	57	56	54	51	46	40	32	26
WA6BG-18/5/8 SPL	3.7	5	8	50		92	76	71	66	61	55	49	42	32
S6G-18/6/8*	4.5	6	8	50		95	78	73	68	63	57	51	43	33
CRI6R-18/7.5/10*	5.5	7.5	10	50		119	100	95	93	88	82	74	64	50
CRI6R-18/7.5/10 SD*	5.5	7.5	10	50		119	100	95	93	88	82	74	64	50
S6G-18/7.5/10*	5.5	7.5	10	50		119	100	95	93	88	82	74	64	50
CRI6R-18/10/12*	7.5	10	12	50		136	125	121	117	111	103	95	75	54
S6G-18/17.5/22*	13	17.5	22	50		266	242	231	220	212	192	172	140	121
S6G-18/25/34	18.5	25	34	50		340	324	313	300	270	262	238	208	145

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	10.8	12.6	14.4	16.2	18	19.8	21.6	23.4	25.2	27	28.8
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
						lps	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
CRI6R-22/5/5*	3.7	5	5	50	Head in Metres	57	50	48	47	44	43	40	36	27	28	23	
S6G-22/5/5*	3.7	5	5	50		57	50	48	47	44	43	40	36	27	28	23	
WA6BG-22/5/6	3.7	5	6	50		68	60	59	58	57	53	51	47	41	34	32	
CRI6R-22/7.5/8*	5.5	7.5	8	50		90	82	80	79	77	73	64	62	53	52	37	
CRI6R-22/7.5/8 SD*	5.5	7.5	8	50		90	82	80	79	77	73	64	62	53	52	37	
S6G-22/7.5/8*	5.5	7.5	8	50		90	82	80	79	77	73	64	62	53	52	37	
CRI6R-22/10/10*	7.5	10	10	50		113	100	99	97	94	86	85	72	66	56	44	30
CRI6R-22/12.5/12*	9.3	12.5	12	50		135	121	118	115	112	107	102	92	86	60	58	48
CRI6R-22/15/15*	11	15	15	50		169	149	148	143	139	131	117	115	100	85	60	
CRI6R-22/20/20*	15	20	20	50		229	215	211	202	194	180	163	149	126	115	100	70
WC6BA-22/25/25*	18.5	25	25	50		263	249	242	234	228	220	210	197	165	145	117	90

\* Marked pumpsets are having ISI licence.

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Series

					RADIAL FLOW												
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	10.8	12.6	14.4	16.2	18	19.8	21.6	23.4	25.2	27	28.8
					lps	0	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
SR61/5/5*	3.7	5	5	50	Head in Metres	59	57	53	51	48	46	43	39	35	31	27	
SR61/5/05C	3.7	5	5	50		56	54	50	48	46	44	41	37	33	29	26	
SR61/5/05S DV	3.7	5	5	50		59	57	53	51	48	46	43	39	35	31	27	
SR61/5/06 SPL	3.7	5	6	50		57	55	51	49	46	44	41	37	33	29	25	
SR61/6/6*	4.5	6	6	50		68	60	59	58	57	53	51	47	41	34	32	
SR61/6/06C	4.5	6	6	50		65	57	56	55	54	50	48	44	38	31	29	
SR61/6/8 SPL	4.5	6	8	50		87	79	77	76	74	70	62	60	51	50	35	
SR61/7.5/8*	5.5	7.5	8	50		90	82	80	79	77	73	64	62	53	52	37	
SR61/7.5/08C	5.5	7.5	8	50		85	77	75	74	72	68	60	58	49	48	33	
SR61/7.5/8S DV	5.5	7.5	8	50		90	82	80	79	77	73	64	62	53	52	37	
SR61/10/10R	7.5	10	10	50		110	97	96	94	91	83	82	70	64	54	42	29
SR61/10/10*	7.5	10	10	50		113	100	99	97	94	86	85	72	66	56	44	30
SR61/12.5/12R	9.3	12.5	12	50		131	117	114	111	108	103	99	89	83	58	56	46
SR61/12.5/12*	9.3	12.5	12	50		135	121	118	115	112	107	102	92	86	60	58	48
SR61/15/15R	11	15	15	50		164	145	144	139	135	127	113	111	97	82	58	
SR61/15/15*	11	15	15	50		169	149	148	143	139	131	117	115	100	85	60	
SR61/17.5/17R	13	17.5	17	50		188	175	170	167	160	157	145	133	119	104	85	61
SR61/17.5/17*	13	17.5	17	50		194	180	176	172	165	162	149	137	123	107	88	63
SR61/20/20R	15	20	20	50		222	208	205	196	188	175	158	144	122	111	97	68
SR61/20/20*	15	20	20	50		229	215	211	202	194	180	163	149	126	115	100	70

\* Marked pumpsets are having ISI licence. DV - Dual Voltage.



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Series

**RADIAL FLOW**

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	9	10.8	12.6	14.4	16.2	18	19.8	21.6	
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	
						0	2.5	3	3.5	4	4.5	5	5.5	6	
						lps	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
SR62/3/04C	2.2	3	4	50	Head in Metres	44	39	37	34	32	28	25	20	15	
SR62/5/06C	3.7	5	6	50		57	54	53	51	48	44	38	30	25	
SR62/5/06S DV	3.7	5	6	50		60	57	56	54	51	46	40	32	26	
SR62/5/6*	3.7	5	6	50		60	57	56	54	51	46	40	32	26	
SR62/6/08C	4.5	6	8	50		90	74	69	65	60	54	48	41	31	
SR62/6/8*	4.5	6	8	50		95	78	73	68	63	57	51	43	33	
SR62/7.5/10C	5.5	7.5	10	50		113	95	90	88	84	78	70	61	48	
SR62/7.5/10*	5.5	7.5	10	50		119	100	95	93	88	82	74	64	50	
SR62/10/12R	7.5	10	12	50		132	121	117	113	108	100	92	73	52	
SR62/10/12*	7.5	10	12	50		136	125	121	117	111	103	95	75	54	
SR62/12.5/15R	9.3	12.5	15	50		153	146	140	132	121	108	97	87	58	
SR62/12.5/15*	9.3	12.5	15	50		158	150	144	136	125	111	100	90	60	
SR62/15/20R	11	15	20	50		228	191	183	175	165	152	135	113	87	
SR62/15/20*	11	15	20	50		235	197	189	180	170	157	139	117	90	
SR62/17.5/22R	13	17.5	22	50		258	235	224	213	206	186	167	136	117	
SR62/20/25*	15	20	25	50		280	256	246	237	227	205	184	145	110	
SR62/20/25R	15	20	25	50		272	248	239	230	220	199	178	141	107	
SR62/25/32*	18.5	25	32	50		351	316	305	290	270	252	225	190	160	

\* Marked pumpsets are having ISI licence. DV - Dual Voltage.

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Series

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	RADIAL FLOW							
						DISCHARGE							
						0	7.2	9	10.8	12.6	14.4	16.2	18
					lps	0	2	2.5	3	3.5	4	4.5	5
SR63/3/05C	2.2	3	5	50	Head in Metres	56	50	48	45	40	32	22	10
SR63/5/08C	3.7	5	8	50		86	82	78	72	65	54	44	33
SR63/5/08S DV	3.7	5	8	50		90	86	82	76	68	57	46	35
SR63/5/8 DV	3.7	5	8	50		90	86	82	76	68	57	46	35
SR63/6/10C	4.5	6	10	50		101	100	96	88	78	66	52	36
SR63/6/10	4.5	6	10	50		106	105	101	93	82	69	55	38
SR63/7.5/12C	5.5	7.5	12	50		121	114	109	104	91	80	67	45
SR63/7.5/12	5.5	7.5	12	50		127	120	115	109	96	84	70	47
SR63/10/14*	7.5	10	14	50		165	152	144	133	120	103	80	56
SR63/10/16R	7.5	10	16	50		167	155	146	139	125	105	91	63
SR63/10/16*	7.5	10	16	50		172	160	151	142	129	108	94	65
SR63/12.5/20R	9.3	12.5	20	50		233	205	191	179	161	136	103	78
SR63/12.5/20*	9.3	12.5	20	50		240	211	197	185	166	140	106	80
SR63/15/25R	11	15	25	50		253	243	230	213	188	160	118	85
SR63/17.5/30R	13	17.5	30	50		317	279	263	235	212	169	102	52
SR63/20/30*	15	20	30	50		360	320	302	280	250	208	157	110
SR63/20/32R	15	20	32	50		378	294	288	274	250	214	155	116

\* Marked pumpsets are having ISI licence. DV - Dual Voltage.



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Series

Model	kW	HP	Stage	Outlet Size in mm	RADIAL FLOW									Star Rating
					m <sup>3</sup> /hr	0	5.4	7.2	9	10.8	12.6	14.4	16.2	
					DISCHARGE lps	0	1.5	2	2.5	3	3.5	4	4.5	
SR65/3/06C	2.2	3	6	50	Head in Metres	56	50	46	38	29	17	4		
SR65/3/6	2.2	3	6	50		59	53	48	40	30	18	5		
SR65/5/10C	3.7	5	10	50		98	92	90	84	71	54	34	15	
SR65/5/10S DV	3.7	5	10	50		103	97	95	88	75	57	36	16	
SR65/5/10*	3.7	5	10	50		103	97	95	88	75	57	36	16	
SR65/6/12*	4.5	6	12	50		123	115	109	98	83	63	40	16	3 Star
SR65/7.5/14C	5.5	7.5	14	50		150	141	134	123	106	85	60	32	
SR65/7.5/15	5.5	7.5	15	50		165	155	146	133	114	91	63	31	
SR65/7.5/16S	5.5	7.5	16	50		178	164	155	140	119	93	61	29	
SR65/7.5/16C	5.5	7.5	16	50		169	156	147	133	113	88	58	28	
SR65/7.5/16*	5.5	7.5	16	50		178	164	155	140	119	93	61	29	
SR65/10/20R	7.5	10	20	50		199	192	187	174	151	120	81	37	
SR65/10/20*	7.5	10	20	50		205	198	193	179	156	124	84	39	
SR65/12.5/25R	9.3	12.5	25	50		250	225	223	221	193	154	107	54	
SR65/12.5/25*	9.3	12.5	25	50		258	232	230	228	199	159	110	56	
SR65/15/30R	11	15	30	50		323	268	266	260	223	177	118	52	
SR65/15/30*	11	15	30	50		333	276	274	268	230	182	122	54	
SR65/17.5/33R	13	17.5	33	50		322	315	308	295	262	218	160	78	
SR65/17.5/33*	13	17.5	33	50		332	325	318	304	270	225	165	80	
SR65/17.5/37*	13	17.5	37	50		372	345	335	299	250	190	128	88	
SR65/20/40R	15	20	40	50	402	351	328	294	249	192	128	61		
SR65/20/40*	15	20	40	50	414	362	338	303	257	198	132	63		

\* Marked pumpsets are having ISI licence. DV - Dual Voltage.

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Series

Model	kW	HP	Stage	Outlet Size in mm	RADIAL FLOW									Star Rating
					DISCHARGE									
					m <sup>3</sup> /hr	0	3.6	4.7	5.4	7.2	9	10.8	12.6	
					lps	0	1	1.3	1.5	2	2.5	3	3.5	
SR66/3/08C	2.2	3	8	50	Head in Metres	77	73	70	68	60	49	37	24	
SR66/3/8	2.2	3	8	50		81	77	74	72	63	52	39	25	
SR66/5/12C	3.7	5	12	50		115	106	105	104	97	82	60	34	
SR66/5/12S DV	3.7	5	12	50		121	112	111	110	102	86	63	36	
SR66/5/12*	3.7	5	12	50		121	112	111	110	102	86	63	36	
SR66/6/15C	4.5	6	15	50		143	139	135	131	117	98	73	45	
SR66/6/15	4.5	6	15	50		150	146	142	138	123	103	77	47	
SR66/6/16	4.5	6	16	50		160	155	148	142	128	106	82	50	
SR66/7.5/18C	5.5	7.5	18	50		181	172	162	147	125	99	66	27	
SR66/7.5/18	5.5	7.5	18	50		190	181	171	155	132	104	69	28	
SR66/7.5/20C	5.5	7.5	20	50		200	188	182	178	161	136	104	67	
SR66/7.5/20S	5.5	7.5	20	50		210	198	192	187	169	143	109	70	
SR66/7.5/20*	5.5	7.5	20	50		210	198	192	187	169	143	109	70	2 Star
SR66/7.5/22C	5.5	7.5	22	50		200	188	182	178	161	135	105	71	
SR66/7.5/22	5.5	7.5	22	50		216	200	193	188	169	142	110	75	
SR66/10/25R	7.5	10	25	50		252	245	242	239	222	192	151	100	
SR66/10/25S	7.5	10	25	50		260	253	249	246	229	198	156	103	
SR66/10/25*	7.5	10	25	50		260	253	249	246	229	198	156	103	
SR66/12.5/30R	9.3	12.5	30	50		288	278	269	260	229	185	132	71	
SR66/12.5/30*	9.3	12.5	30	50		297	287	277	268	236	191	136	73	
SR66/12.5/33*	9.3	12.5	33	50	339	314	298	286	253	216	166	98		
SR66/15/38R	11	15	38	50	375	345	342	340	304	252	194	138		
SR66/15/38*	11	15	38	50	387	356	353	350	313	260	200	142		

\* Marked pumpsets are having ISI licence. DV - Dual Voltage.



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Series

													RADIAL FLOW	
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	2.7	3.6	4.7	5.4	7.2	9	Star Rating	
					DISCHARGE	0	0.75	1	1.3	1.5	2	2.5		
SR67/3/10C	2.2	3	10	50	Head in Metres	93	84	79	73	68	57	37		
SR67/3/10 - H	2.2	3	10	50		98	88	83	77	72	60	39		
SR67/5/15S	3.7	5	15	50		145	131	128	120	117	95	58		
SR67/5/15C	3.7	5	15	50		138	124	122	114	111	90	55		
SR67/5/15*	3.7	5	15	50		145	131	128	120	117	95	58	2 Star	
SR67/5/17C	3.7	5	17	50		160	143	141	134	126	97	64		
SR67/5/17*	3.7	5	17	50		168	151	148	141	133	102	67		
SR67/6/18C	4.5	6	18	50		167	162	152	145	136	102	67		
SR67/6/18*	4.5	6	18	50		176	171	160	153	143	107	70		
SR67/6/20C	4.5	6	20	50		187	168	159	154	146	114	84		
SR67/6/20*	4.5	6	20	50		197	177	167	162	154	120	88		
SR67/7.5/25S	5.5	7.5	25	50		250	229	225	215	206	164	106		
SR67/7.5/25C	5.5	7.5	25	50		238	218	214	204	196	156	101		
SR67/7.5/25*	5.5	7.5	25	50		250	229	225	215	206	164	106		
SR67/10/30*	7.5	10	30	50		282	262	258	250	235	188	127		

																					MIXED FLOW	
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	14.4	18	19.8	21.6	23.4	25.2	27	28.8	30.6	32.4	34.2	36	37.8	39.6	Star Rating	
					DISCHARGE	0	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11		
CRI6M-22/5/5*	3.7	5	5	65	Head in Metres	53	48	46	44	42	40	37	33	30	28	25	21	18	14	10	3 Star	
CRI6M-22N/5/5*	3.7	5	5	80		53	48	46	44	42	40	37	33	30	28	25	21	18	14	10	3 Star	
CRI6M-22/7.5/8*	5.5	7.5	8	65		83	77	74	72	70	66	62	57	52	47	42	36	31	25	18	3 Star	
CRI6M-22/10/10*	7.5	10	10	65		105	96	92	90	85	80	74	69	61	55	48	40	34	28	20		
CRI6M-22/12.5/12*	9.3	12.5	12	65		125	115	110	107	103	97	90	83	75	67	58	51	43	34	24	3 Star	

\* Marked pumpsets are having ISI licence. H - Horizontal Model.

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Series

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE															Star Rating	
						0	18	19.8	21.6	23.4	25.2	27	28.8	30.6	32.4	34.2	36	37.8	39.6	41.4		43.2
						0	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5		12
CRI6M-25/5/4*	3.7	5	4	65	Head in Metres	47	42	41	40	38	36	34	31	29	26	24	21	18	16	12	9	
CRI6M-25N/5/4*	3.7	5	4	80		47	42	41	40	38	36	34	31	29	26	24	21	18	16	12	9	3 Star
CRI6M-25/7.5/6*	5.5	7.5	6	65		70	63	62	60	57	54	50	47	43	39	35	31	27	22	17	12	3 Star
CRI6M-25N/7.5/6*	5.5	7.5	6	65		70	63	62	60	57	54	50	47	43	39	35	31	27	22	17	12	3 Star
CRI6M-25/10/8*	7.5	10	8	65		92	84	82	80	76	71	67	62	57	52	46	41	35	28	22	15	3 Star
CRI6M-25/17.5/4*	13	17.5	14	65		162	147	143	140	134	126	118	109	100	92	82	72	62	51	39	28	
CRI6M-25/20/16*	15	20	16	65		187	169	165	162	156	148	138	128	118	107	96	85	74	61	47	32	

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE																		
						0	12.6	14.4	16.2	18	19.8	21.6	23.4	25.2	27	28.8	30.6	32.4	34.2	36	37.8	39.6	41.4	43.2
						0	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12
WA6BM-27/3/03*	2.2	3	3	65	Head in Metres	30	26.5	26	25.5	25	24	23.5	23	22	21	20	19	18	17	16	15	13	12	10
S6M-27/5/5*	3.7	5	5	65		42	38	38	37	36	36	35	34	33	32	31	29	28	26	24	22	20	18	15
WC6BM-27/5/06S (SPL)	3.7	5	6	65		50	46	45	44	43	43	42	41	39	38	36	35	33	31	29	27	24	22	19
S6M-27/6/6*	4.5	6	6	65		52	47	46	45	44	44	43	42	40	39	37	36	34	32	30	28	25	23	20

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE										
						0	4	8	12	16	20	24	28	32	36	40
						0	1.11	2.22	3.33	4.44	5.55	6.66	7.77	8.88	10.0	11.11
S6M-28/12.5/11	9.3	12.5	11	65	Head in Metres	165	153	142	130	119	109	98	85	73	61	48

\* Marked pumpsets are having ISI licence.



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Series

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE																MIXED FLOW		
						0	12.6	14.4	18	19.8	21.6	23.4	25.2	27	28.8	30.6	32.4	34.2	36	37.8	39.6	41.4	43.2	46.8
						0	3.5	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	13
WC6BM-32/3/04	2.2	3	4	65	Head in Metres	37	35	34	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	
WA6BM-32/3/04 SPL	2.2	3	4	65		38	35.5	35	34	33	32.5	32	31	31	30	29	28	26	25	24	22	21	19	
CRI6M-32/5/03*	3.7	5	3	80		35					31		30		28		26	25	24	23	21		18	15
S6M-32/5/4*	3.7	5	4	65		38	35.5	35	34	33	32.5	32	31	31	30	29	28	26	25	24	22	21	19	
WC6BM-32/5/04*	3.7	5	4	80		38	36	35	34	33	33	32	31	31	30	29	28	26	25	24	22	21	19	
WA6BM-32/5/5 SPL	3.7	5	5	65		50		45	43	42	41	39	38	37	35	34	31	29	28	27				
S6M-32/6/5*	4.5	6	5	65		51	47	46.5	46	45	44	43	42.5	42	40	39	38	37	36	34	33	30	29	
WA6BM-32/6/6 SPL	4.5	6	6	65		60	55	54	53	52	52	51	49	48.5	47.5	46.5	44.5	43	41.5	40	38	35	32	
CRI6M-32/7.5/05S SPL	5.5	7.5	5	80		56					49		46		44		41	39	37	35	32		27	20
S6M-32/7.5/6*	5.5	7.5	6	65		62	56.5	56	55	54	53.5	53	51	50	49	48	46	44	43	41	39	36	32	
S6M-32/7.5/8 SPL	5.5	7.5	8	80		79	73	72.5	71	70	68	67	66	64	62	60	58	54	52	49	46	43	39	
S6M-32/10/10 SPL	7.5	10	10	80		101	94	93	91	89	88	87	85	83	81	79	77	74	71	68	65	60	56	
S6M-32/12.5/12 SPL	9.3	12.5	12	80		121	111	110	107	104	102	101	98	95	93	90	87	84	80	76	72	63	58	
CRI6M-32/20/14*	15	20	14	80		150					126		123		115		108	102	96	85	83		67	34
WC6BM-32/25/20*	18.5	25	20	65		202	183	178	169	165	162	159	157	154	150	146	138	128	114	97	72	68	63	

\* Marked pumpsets are having ISI licence.

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Series

														MIXED FLOW		
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	21.6	25.2	28.8	32.4	34.2	36	37.8	39.6	43.2	46.8
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					Head in Metres	0	6	7	8	9	9.5	10	10.5	11	12	13
WA6BM-38/5/03	3.7	5	3	80	Head in Metres	35	31	30	28	26	25	24	23	21	18	15
WA6BM-38/5/4LV SPL	3.7	5	4	80		42	36	33	31	29	27	26	24	22	21	19
WA6BM-38/5/04 SPL	3.7	5	4	80		45	36	33	31	29	27	26	24	22	21	19
WA6BM-38/7.5/05*	5.5	7.5	5	80		56	49	46	44	41	39	37	35	32	27	20
S6M-38/7.5/6 SPL	5.5	7.5	6	80		67	62	60	58	54	52	49	47	44	38	25
WC6BM-38/10/08 SPL	7.5	10	8	80		97	84	79	73	65	61	55	50	45	32	27
WC6BM-38/12.5/08*	9.3	12.5	8	80		100	87	81	75	67	63	57	52	46	33	28
WC6BM-38/12.5/10 SPL	9.3	12.5	10	80		119	99	91	84	76	71	65	58	50	29	27
WC6BM-38/15/10*	11	15	10	80		123	102	94	87	78	73	67	60	52	30	28
WC6BM-38/15/12 SPL	11	15	12	80		136	112	106	99	90	84	78	71	63	48	26
WC6BM-38/17.5/14 SPL	13	17.5	14	80		146	122	119	112	105	99	93	82	81	65	33
WC6BM-38/20/14*	15	20	14	80		150	126	123	115	108	102	96	85	83	67	34
WC6BM-38/20/17 SPL	15	20	17	80		204	173	163	149	134	125	117	106	94	70	35
WC6BM-38/25/17*	18.5	25	17	80		210	178	168	154	138	129	121	109	97	72	36

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	28.8	32.4	34.2	36	37.8	39.6	43.2	46.8	50.4	54	57.6	61.2	64.8
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					Head in Metres	0	8	9	9.5	10	10.5	11	12	13	14	15	16	17	18
S6M-46/6/4LV SPL	4.5	6	4	100	Head in Metres	47	35	34	33	32	31	30	28	26	24	22	19	13	11

Note : LV design also available (200-360V)

\* Marked pumpsets are having ISI licence.



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Series

																						MIXED FLOW		
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr		0	21.6	25.2	28.8	32.4	34.2	36	37.8	39.6	43.2	46.8	50.4	54	57.6	61.2	64.8	68.4	
					lps		0	6	7	8	9	9.5	10	10.5	11	12	13	14	15	16	17	18	19	
WA6BM-60/7.5/04LV SPL	5.5	7.5	4	100	Head in Metres	48	40	38	37	35	34	33	32	31	30		25	22	19	15	12			
WA6BM-60/7.5/4 SPL	5.5	7.5	4	80/100		48	40	38	37	35	34	33	32	31	30		25	22	19	15	12			
WA6BM-60/10/05 SPL	7.5	10	5	80		62			47	45	44	43	42	41	38	35	32	29	26	23	20			
WA6BM-60/12.5/5	9.3	12.5	5	80		62				50	49	48	47	46	44	41	39	35	32	27	23	18		
WA6BM-60/15/06*	11	15	6	80		77				60	59	58	57	55	53	50	47	43	39	35	29	23		
WC6BM-60/17.5/07*	13	17.5	7	80		89				71	70	68	67	66	62	59	54	50	45	39	32	28		
WC6BM-60/20/08*	15	20	8	80		105				81	79	78	76	75	71	67	62	57	51	45	38	30		
WC6BM-60/25/10*	18.5	25	10	80		132				101	98	96	95	93	89	84	78	73	66	58	50	40		

Note : LV design also available (200-360V)

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr		0	37.8	39.6	43.2	46.8	50.4	54	57.6	61.2	64.8	68.4	72	75.6	79.2
					lps		0	10.5	11	12	13	14	15	16	17	18	19	20	21	22
WA6BM-70/15/5	11	15	5	100	Head in Metres	65	47	46	44	42	40	38	37	34	32	30	27	24	20	

\* Marked pumpsets are having ISI licence.

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Series

MIXED FLOW																							
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE																	
						0	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5
					lps	Head in Metres																	
						0	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5
SM60/3/03C	2.2	3	3	65	29	25	25	24	24	23	22	22	21	20	19	18	17	16	15	14	12	11	10
SM60/5/05C	3.7	5	5	65	40	36	36	35	34	34	33	32	31	30	29	28	27	25	23	21	19	17	14
SM60/5/05DV	3.7	5	5	65	42	38.5	38	37	36.5	36	35	34	33	32	31	29	28	26	24	22	20	18	15
SM60N/5/05S	3.7	5	5	65	42	39	38	37	37	36	35	34	33	32	31	29	28	26	24	22	20	18	15
SM60/5/5*	3.7	5	5	65	42	38.5	38	37	36.5	36	35	34	33	32	31	29	28	26	24	22	20	18	15
SM60/6/06C	4.5	6	6	65	50	46	45	44	43	42.5	42	41	39	38	36	35	33	31	29	27	24	22	19
SM60/6/6*	4.5	6	6	65	52	47	46	45	44.5	44	43	42	40	39	37	36	34	32	30	28	25	23	20
SM60/7.5/08C	5.5	7.5	8	65	73	65	64	63	62	61	59	58	56	54	52	50	48	45	42	38	34	30	26
SM60/7.5/08DV	5.5	7.5	8	65	77	68	67	66	65	64	62	61	59	57	55	53	50	47	44	40	36	32	27
SM60N/7.5/08C	5.5	7.5	8	65	73	65	64	63	62	61	59	58	56	54	52	50	48	45	42	38	34	30	26
SM60/7.5/8*	5.5	7.5	8	65	77	68	67	66	65	64	62	61	59	57	55	53	50	47	44	40	36	32	27
SM60/10/10R	7.5	10	10	65	90	81	80	79	77	75	73	71	69	67	65	62	59	56	52	49	45	41	35
SM60/10/10*	7.5	10	10	65	93	84	82	81	79	77	75	73	71	69	67	64	61	58	54	51	46	42	36
SM60/12.5/12R	9.3	12.5	12	65	108	100	98	97	96	94	92	90	87	84	81	79	75	71	66	61	56	51	46
SM60/12.5/12*	9.3	12.5	12	65	111	103	101	100	99	97	95	93	90	87	84	81	77	73	68	63	58	53	47
SM60/15/15R	11	15	15	65	135	120	119	117	115	113	111	109	106	103	100	95	91	87	81	77	71	54	48
SM60/15/15*	11	15	15	65	139	124	123	121	119	117	114	112	109	106	103	98	94	90	85	79	73	56	49
SM60/17.5/18	13	17.5	18	65	168	153	150	148	144	141	138	135	128	123	118	112	106	97	87	82	70	62	52
SM60/20/20R	15	20	20	65	178	158	156	152	149	146	143	138	134	128	122	116	111	103	94	85	76	66	55
SM60N/20/20*	15	20	20	65	183	163	161	159	154	151	147	142	138	132	126	120	114	106	97	88	78	68	57
SM60/25/25R	18.5	25	25	65	241	213	210	207	204	199	196	190	184	178	172	164	154	145	135	124	113	99	86
SM60/30/30	22	30	30	65	298	264	260	256	252	246	242	235	228	220	212	203	191	179	167	154	139	122	107
SM60/35/35	26	35	35	65	347	308	304	298	294	287	283	274	266	256	248	237	223	209	195	179	162	143	125
SM60/40/40	30	40	40	65	397	352	347	341	336	328	323	314	304	293	283	270	254	238	222	205	186	163	142
SM60/50/50	37	50	50	65	496	440	434	426	420	410	404	392	380	366	354	338	318	298	278	256	232	204	178

\* Marked pumpsets are having ISI licence. DV - Dual Voltage. 30HP and above ranges will be supplied against order only.





# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Series

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE																			
						MIXED FLOW																			
						0	12.6	14.4	16.2	18	19.8	21.6	23.4	25.2	27	28.8	30.6	32.4	34.2	36	37.8	39.6	41.4	43.2	45
0	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13					
SM61N/3/04S SPL	2.2	3	4	80	37	34	34	33	33	32	32	31	30	30	29	28	27	25	24	23	21	20	18		
SM61/5/04S SPL	3.7	5	4	65	38	36	35	35	34	33	33	32	31	31	30	29	28	26	25	24	22	21	19		
SM61/5/04C	3.7	5	4	65/80	36	34	33	33	32	31	31	30	29	29	29	28	27	25	24	23	21	20	18		
SM61/5/4WV	3.7	5	4	80	38	36	35	35	34	33	33	32	31	31	30	29	28	26	25	24	22	21	19		
SM61/5/4*	3.7	5	4	65	38	35.5	35	34.5	34	32.5	33	31.5	31	31	30	29	28	26	25	24	22	21	19		
SM61/5/5WV SPL	3.7	5	5	80	49	46	45	45	44	44	43	42	41	41	39	38	37	36	35	33	32	29	28		
SM61/6/05C	4.5	6	5	65	48	45	44	44	43	43	42	41	40	40	38	37	36	35	34	32	31	29	28		
SM61/6/5WV	4.5	6	5	80	51	47	47	46	46	45	44	43	43	42	40	39	38	37	36	34	33	30	29		
SM61/6/5*	4.5	6	5	65	51	47	46.5	46	45.5	45	44	43	43	42	40	39	38	37	36	34	33	30	29		
SM61/7.5/06C	5.5	7.5	6	65	59	54	53	53	52	51	51	50	48	48	47	46	44	42	41	39	37	34	31		
SM61N/7.5/06S SPL	5.5	7.5	6	80	66				60	59	58	57	55.5	53.5	52	50	48	45	42	39	36	32	28.5	25	21
SM61/7.5/6*	5.5	7.5	6	65	62	57	56	55.5	55	54	53.5	53	51	50	49	48	46	44	43	41	39	36	33		
SM61/10/08R	7.5	10	8	65	77	71	70	70	69	68	66	65	64	62	60	58	56	52	50	48	45	42	38		
SM61/10/8*	7.5	10	8	65	79	73	73	72	71	70	68	67	66	64	62	60	58	54	52	49	46	43	39		
SM61/12.5/10R	9.3	12.5	10	65	98	91	90	89	88	86	85	84	82	81	79	77	75	72	69	66	63	58	54		
SM61/12.5/10*	9.3	12.5	10	65	101	94	93	92	91	89	88	87	85	83	81	79	77	74	71	68	65	60	56		
SM61/15/12R	11	15	12	65	117	108	107	105	104	101	99	98	95	92	90	87	84	81	78	74	70	61	56		
SM61/15/12*	11	15	12	65	121	111	110	108	107	104	102	101	98	95	93	90	87	84	80	76	72	63	58		
SM61/17.5/14R	13	17.5	14	65	135	124	123	121	119	117	115	113	110	107	105	101	98	93	89	83	80	63	58		
SM61/17.5/14*	13	17.5	14	65	139	128	127	125	123	121	119	116	113	110	108	104	101	96	92	86	82	65	60		
SM61/20/16R	15	20	16	65	148	137	136	135	134	133	130	127	123	117	113	106	100	92	82	74	64	64	60		
SM61N/20/16*	15	20	16	80	171				162	160	158	156	153	151	147	140	134	125	118	110	102	93	83	71	60
SM61/20/16*	15	20	16	65	153	141	140	139	138	137	134	131	127	121	116	109	103	95	85	76	67	66	62		
SM61/25/20R	18.5	25	20	65	196	178	173	168	164	160	157	154	152	149	146	142	134	124	111	94	70	66	61		
SM61/30/24	22	30	24	65	242	220	214	208	203	198	194	191	188	185	180	175	166	154	137	116	86	82	76		
SM61/35/28	26	35	28	65	283	256	249	242	237	231	227	223	220	216	210	204	193	179	160	136	101	95	88		
SM61/40/32	30	40	32	65	323	293	285	277	270	264	259	254	251	246	240	234	221	205	182	155	115	109	101		
SM61/50/40	37	50	40	65	404	366	356	346	338	330	324	318	314	308	300	292	276	256	228	194	144	136	126		

\* Marked pumpsets are having ISI licence. WV - Wide Voltage. 30HP and above ranges will be supplied against order only.

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0.0	16.6	25.6	31.0	32.4	33.1	37.1	40.7	43.9	47.2	50.4	53.6	58.3	
					DISCHARGE lps	0.0	4.6	7.1	8.6	9.0	9.2	10.3	11.3	12.2	13.1	14.0	14.9	16.2	
Head in Metres					224	210	190	170	163	160	140	120	100	80	60	40	20		
SM61-N /25/20	18.5	25	20	80															

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0.0	9.7	19.4	25.6	29.5	32.0	34.9	38.5	40.0	41.0	43.2	45.4	47.2	49.3	52.9	
					DISCHARGE lps	0.0	2.7	5.4	7.1	8.2	8.9	9.7	10.7	11.1	11.4	12.0	12.6	13.1	13.7	14.7	
Head in Metres					281	274	260	241	220	200	180	160	150	140	121	100	80	60	30		
SM61-N /30/25	22	30	25	80																	

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	21.6	25.2	28.8	32.4	34.2	36	37.8	39.6	43.2	46.8	
					DISCHARGE lps	0	6	7	8	9	9.5	10	10.5	11	12	13	
Head in Metres					33	29	29	27	25	24	23	22	20	17	14		
SM62/5/03C	3.7	5	3	80													
SM62/5/3*	3.7	5	3	80													
SM62/6/04C	4.5	6	4	80													
SM62/6/4 WV	4.5	6	4	80													
SM62/7.5/05C	5.5	7.5	5	80													
SM62/7.5/5*	5.5	7.5	5	80													
SM62/10/06R	7.5	10	6	80													
SM62/10/6*	7.5	10	6	80													
SM62/12.5/08R	9.3	12.5	8	80													
SM62/15/10R	11	15	10	80													
SM62/20/14R	15	20	14	80													
SM62/25/17R	18.5	25	17	80													
SM62/30/20	22	30	20	80													
SM62/35/23	26	35	23	80													
SM62/40/27	30	40	27	80													
SM62/50/34	37	50	34	80													

\* Marked pumpsets are having ISI licence. WV - Wide Voltage. 30HP and above ranges will be supplied against order only.





# PERFORMANCE CHART

## 150mm BOREWELL SUBMERSIBLE PUMPSET - DELMA Series

MOTOR	
Part Name	Material
Upper and lower housing	Cast iron
Stator shell	SS 304
Shaft	SS 410
Journal bushes	LTB - 4 & Carbon
Thrust assembly	SS 420 and Graphite carbon
Diaphragm	High nitrile butyl rubber

PUMP	
Part Name	Material
Check valve housing	Cast iron
Check valve seat	Nitrile butyl rubber
Diffuser chamber	SS 304, SS 410 & Cast iron
Impeller	Noryl, SS 304 & SS 410
Suction inter connector	Cast iron
Inlet screen	SS 202
Pump shaft	SS 410 / 431
Cable guard	SS 202
Coupling	SS 410



## 150mm Borewell Submersible Pumpset - BINDA 6D Series

Motor: C.R.I. 150mm Borewell Submersible Pumpset are powered by water filled, rewindable submersible motor which is suitable for continuous duty. T-Bolt design in all motors ensures rigid construction.

Pump: C.R.I.'s new double depth BINDA 6D 150mm Borewell Submersible Pumps are specially designed for conditions where the ground water level is too deep. This series guarantees long life with energy-efficient performance. The built in check valve prevents back flow, and reduces the risk of water hammer.

### SALIENT FEATURES

- Double working capacity when compared to other pump sets
- Corrosion resistant SS 304 stage casings and SS 410 impellers are used to increase the life of the Pumps
- Helps to lift water from higher depth with reduced number of stages
- Carbon Teflon pads are used to withstand the up thrust load
- Specially designed Thrust Bearings to withstand high axial thrust loads
- High operating efficiency and consistent performance ensures low operation cost
- Motor is designed with higher cooling effect by increasing the Housing Areas.

### APPLICATION

- Agriculture • Sprinkler/Drip Irrigation • Domestic • Civil & Industrial water supply • Gardens & Mining • Fire fighting
- Pressure boosting

### SPECIFICATIONS

	BINDA 6D Series
Power range	2.2 kW - 37 kW (3 HP - 50 HP)
Speed	2850 RPM
Version	Single phase 220-240V; Three phase 380-415V, 50Hz AC Supply
Maximum total head	500 Metre
Maximum flow rate	20 LPS (72 m <sup>3</sup> /hr)
Maximum outer diameter	147 mm
Thrust load	3500 lbs - upto 4.5kW; 6000 lbs - 5.5kW to 18.5kW
Type of duty	S1 ( Continuous )
Method of starting	3Ph - Direct Online (D.O.L) / Star Delta (SD)
Nominal outlet size	50, 65, 80, 100 mm



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - BINDA 6D Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	2	3	4	5	6	7	8	9	10
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
						lps	0.55	0.83	1.11	1.39	1.67	1.94	2.22	2.50	2.77
WC6BI-06/5/10	3.7	5	10	50	Head in Metres	148	147	145	140	132	120	104	88	67	46
WC6BI-06/5/12 SPL	3.7	5	12	50		171	170	168	164	158	147	133	114	93	66
WC6BI-06/6/12	4.5	6	12	50		176	175	173	169	163	152	137	118	96	68
WC6BI-06/7.5/15*	5.5	7.5	15	50		222	220	218	211	200	181	160	136	102	72
WC6BI-06/7.5/20 SPL	5.5	7.5	20	50		286	280	275	269	256	240	217	185	147	109
WC6BI-06/10/20*	7.5	10	20	50		295	289	284	277	264	248	224	191	152	112
WC6BI-06/12.5/24	9.3	12.5	24	50		360	352	346	336	322	298	262	222	168	121

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	2	3	4	5	6	7	8	9	10	11	12	Star Rating
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	
						lps	0.55	0.83	1.11	1.39	1.67	1.94	2.22	2.50	2.77	3.05	3.33	
WC6BI-7B/3/05*	2.2	3	5	50	Head in Metres	76	75	74	73	72	70	66	60	53	43	31	20	
WC6BI-7B/5/08*	3.7	5	8	50		120	119	118	116	112	107	100	88	76	60	43	26	2 Star
WC6BI-7B/7.5/12*	5.5	7.5	12	50		181	179	176	175	169	159	149	133	115	92	64	34	
WC6BI-7B/10/16*	7.5	10	16	50		242	240	238	232	225	214	200	178	152	120	82	45	
WC6BI-7B/12.5/20*	9.3	12.5	20	50		304	301	298	293	285	272	254	224	192	152	107	54	
WC6BI-7B/15/23*	11	15	23	50		347	344	340	334	325	312	290	258	218	175	121	62	
WC6BI-7B/17.5/30	13	17.5	30	50		447	432	424	413	396	376	346	312	264	210	152	74	

\* Marked pumpsets are having ISI licence.



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - BINDA 6D Series

Model	kW	HP	Stage	Outlet Size in mm	RADIAL FLOW													Star Rating	
					m <sup>3</sup> /hr		0	4	6	7	8	9	10	11	12	13	14		15
					DISCHARGE		0	1.11	1.67	1.94	2.22	2.50	2.77	3.05	3.33	3.61	3.88		4.16
WC6BI-09/3/04	2.2	3	4	50	Head in Metres	66	65	64	63	62	59	56	52	48	43	37	32		
WC6BI-09/5/06*	3.7	5	6	50		99	98	97	94	90	85	79	72	65	58	50	41	2 Star	
WC6BI-09/6/08*	4.5	6	8	50		133	132	127	123	118	111	103	95	86	76	64	52	2 Star	
WC6BI-09/7.5/10S	5.5	7.5	10	50		166	164	158	154	147	139	129	118	106	94	81	67		
WC6BI-09/7.5/10*	5.5	7.5	10	50		166	164	158	154	147	139	129	118	106	94	81	67	2 Star	
WC6BI-09/10/13S	7.5	10	13	50		216	215	209	203	195	184	171	158	143	127	109	88		
WC6BI-09/10/13*	7.5	10	13	50		216	215	209	203	195	184	171	158	143	127	109	88	2 Star	
WC6BI-09/12.5/15*	9.3	12.5	15	50		252	251	244	238	229	217	202	187	171	153	132	111		
WC6BI-09/15/19*	11	15	19	50		312	309	301	293	282	266	247	227	204	180	153	124		
WC6BI-09/17.5/22*	13	17.5	22	50		368	367	357	348	335	319	298	274	247	218	187	154		
WC6BI-09/20/25*	15	20	25	50		410	402	387	374	357	336	313	287	259	229	196	161		
WC6BI-09/25/30*	18.5	25	30	50		500	493	477	463	446	424	399	370	336	298	211	209		

Model	kW	HP	Stage	Outlet Size in mm	RADIAL FLOW											Star Rating	
					m <sup>3</sup> /hr		0	4	6	8	10	12	14	16	18		20
					DISCHARGE		0	1.11	1.67	2.22	2.77	3.33	3.88	4.40	5.00		5.55
WC6BI-10/5/05*	3.7	5	5	65	Head in Metres	85	83	82	81	77	71	63	53	41	28		
WC6BI-10N/5/05*	3.7	5	5	65		85	83	82	81	77	71	63	53	41	28		
WC6BI-10/6/06*	4.5	6	6	65		102	100	98	95	90	79	69	57	44	30	2 Star	
WC6BI-10/7.5/08*	5.5	7.5	8	65		136	132	128	125	118	107	94	77	60	38	2 Star	
WC6BI-10N/10/10*	7.5	10	10	65		169	164	162	155	144	130	112	94	72	49		
WC6BI-10/10/10*	7.5	10	10	65		169	164	162	155	144	130	112	94	72	49		
WC6BI-10/12.5/12*	9.3	12.5	12	65		206	200	195	192	182	167	144	120	96	61	2 Star	
WC6BI-10/15/15*	11	15	15	65		253	246	243	236	223	198	174	144	110	68		
WC6BI-10/17.5/18*	13	17.5	18	65		310	300	292	282	267	240	214	180	138	92		
WC6BI-10/20/20*	15	20	20	65		342	332	326	316	300	265	230	192	152	100		

\* Marked pumpsets are having ISI licence.



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - BINDA 6D Series

																RADIAL FLOW			
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	6	8	10	12	14	16	18	20	22	24	26	Star Rating	
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE		DISCHARGE
					lps	0	1.67	2.22	2.77	3.33	3.88	4.40	5.00	5.55	6.11	6.66	7.22		
WC6BI-15/5/04*	3.7	5	4	65	Head in Metres	68	67	66	65	63	61	57	54	47	40	32	24	2 Star	
WC6BI-15/6/05*	4.5	6	5	65		87	85	84	82	79	75	69	63	56	47	39	26	2 Star	
WC6BI-15/7.5/06*	5.5	7.5	6	65		104	102	99	97	94	90	84	77	69	57	48	36	2 Star	
WC6BI-15/7.5/08 SPL	5.5	7.5	8	65		132	131	128	125	121	113	103	91	81	68	54	40		
WC6BI-15/10/08*	7.5	10	8	65		136	135	132	129	125	117	108	96	84	70	56	41	2 Star	
WC6BI-15/12.5/10*	9.3	12.5	10	65		174	168	166	162	158	152	143	129	117	98	79	61		
WC6BI-15/15/12*	11	15	12	65		206	200	198	192	186	177	165	149	132	109	89	62	2 Star	
WC6BI-15/17.5/14*	13	17.5	14	65		238	232	228	221	213	203	189	170	148	122	97	72		
WC6BI-15N/20/16	15	20	16	65		275	272	269	262	252	234	216	194	174	145	115	84		
WC6BI-15/20/16	15	20	16	65		275	272	269	262	252	234	216	194	174	145	115	84		
WC6BI-15/25/20*	18.5	25	20	65		350	339	333	326	317	304	286	261	235	198	162	126		
WC6BI-15/30/24	22	30	24	65		401	391	384	375	365	354	337	302	264	222	173	110		

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	10	12	16	18	20	22	24	26	28	30	32	Star Rating	
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE		DISCHARGE
					lps	0	2.77	3.33	4.40	5.00	5.55	6.11	6.66	7.22	7.77	8.33	8.88		
WC6BI-20N/5/03	3.7	5	3	65	Head in Metres	48	47	46	43	41	39	37	33	29	24	20	16		
WC6BI-20/6/04*	4.5	6	4	65		64	63	61	58	56	52	48	44	39	34	28	21		
WC6BI-20/7.5/05*	5.5	7.5	5	65		80	79	78	73	69	65	60	56	50	42	38	25		
WC6BI-20N/7.5/05*	5.5	7.5	5	65		80	79	78	73	69	65	60	56	50	42	38	25	3 Star	
WC6BI-20/12.5/08*	9.3	12.5	8	65		129	126	124	118	112	105	98	90	80	69	58	44		
WC6BI-20/15/10*	11	15	10	65		161	156	153	144	138	130	121	111	98	84	71	54		
WC6BI-20/17.5/12	13	17.5	12	65		193	188	184	174	167	160	148	136	120	104	88	68		
WC6BI-20/20/13*	15	20	13	65		210	209	206	194	185	174	162	148	133	116	96	73		
WC6BI-20/25/17*	18.5	25	17	65		277	268	264	250	240	226	211	194	173	149	124	92		
WC6BI-20/30/20	22	30	20	65		323	319	315	306	299	285	267	250	224	196	169	138		

\* Marked pumpsets are having ISI licence.



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - BINDA 6D Series

																	RADIAL FLOW	
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	16	18	20	22	25	28	30	32	34	36	38	Star Rating
						lps	0	4.40	5.00	5.55	6.11	6.94	7.77	8.33	8.88	9.44	10.00	
WC6BI-25/6/03	4.5	6	3	65	Head in Metres	48	46	45	44	42	40	35	32	28	24	20	16	
WC6BI-25/7.5/04*	5.5	7.5	4	65		64	62	61	59	57	53	48	44	39	34	28	21	2 Star
WC6BI-25/10/05	7.5	10	5	65		82	77	76	74	72	68	61	56	51	44	36	28	
WC6BI-25/15/08*	11	15	8	65		132	129	127	123	120	112	103	96	86	76	64	52	
WC6BI-25/20/10	15	20	10	65		164	157	153	148	143	135	124	116	104	92	80	62	

																	MIXED FLOW		
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	15	20	25	30	35	40	45	50	55	60	65	70	72
						lps	0	4.16	5.56	6.94	8.33	9.72	11.11	12.5	13.89	15.28	16.67	18.06	19.44
WA6BM-48/6/04 SPL	4.5	6	4	80	Head in Metres	50	44	42	40	38	36	33	31	29	26	24	20	17	15
WC6BM-48/7.5/4	5.5	7.5	4	80		52	45	43	41	39	37	34	32	30	27	25	21	18	16
WC6BM-48/15/8*	11	15	8	80		102	90	87	82	78	74	69	64	60	55	49	43	36	32
WC6BM-48/20/10*	15	20	10	80		125	111	106	101	96	91	86	81	75	69	62	54	45	41
WC6BM-48/25/12*	18.5	25	12	80		153	137	132	126	120	113	106	99	92	84	75	65	55	51

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	21.6	25.2	28.8	32.4	34.2	36	37.8	39.6	43.2	46.8	50.4
						lps	0	6	7	8	9	9.5	10	10.5	11	12	13
WA6BM-48/6/4 LV SPL	4.5	6	4	80/100	Head in Metres	46	38	36	35	32	31	30	29.5	29	28	26.5	25
WA6BM-48/7.5/5 SPL	5.5	7.5	5	80		55	50	48	46	43	40	38	37	36	32	29	25

Note : LV design also available (200-360V)



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - BINDA 6D Series

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE															Star Rating	
					m <sup>3</sup> /hr		0	15	20	25	30	35	40	45	50	55	60	65	70		72
					lps	0	4.16	5.56	6.94	8.33	9.72	11.11	12.5	13.89	15.28	16.67	18.06	19.44	20		
SM63N/5/04 SPL	3.7	5	4	80	Head in Metres	53	47	45	42	40	37	34	32	31	29	27	24	20	18	3 Star	
SM63N/6/03	4.5	6	3	80		39	34	33	31	29	28	26	24	22	20	18	16	14	13		
SM63N/7.5/04C	5.5	7.5	4	80		49	43	41	39	37	35	32	30	28	25	23	19	16	14		
SM63N/7.5/04*	5.5	7.5	4	80		53	47	45	42	40	37	34	32	31	29	27	24	20	18		
SM63N/7.5/4WV	5.5	7.5	4	80		53	47	45	42	40	37	34	32	31	29	27	24	20	18		
SM63N/10/05R	7.5	10	5	80		65	57	55	52	49	46	43	40	38	35	32	28	23	21		
SM63N/10/06 SPL	7.5	10	6	80/100		74	65	64	61	58	54	51	47	44	40	35	30	25	23		
SM63N/12.5/06R	9.3	12.5	6	80		75	66	64	61	58	54	51	47	44	40	36	30	26	24		
SM63N/12.5/6*	9.3	12.5	6	80		77	68	66	63	60	56	53	49	46	42	37	32	27	25		
SM63N/15/07	11	15	7	80		89	79	76	72	68	64	60	56	52	48	43	38	32	30		
SM63N/15/08R	11	15	8	80		99	87	84	80	76	72	67	62	58	53	48	42	35	31		
SM63N/15/08*	11	15	8	80		102	90	87	82	78	74	69	64	60	55	49	43	36	32		
SM63N/17.5/09	13	17.5	9	80		111	100	96	92	87	82	77	72	67	61	55	48	40	37		
SM63N/20/10R	15	20	10	80		121	108	103	98	93	88	83	79	73	67	60	52	44	40		
SM63N/20/10*	15	20	10	80		125	111	106	101	96	91	86	81	75	69	62	54	45	41		
SM63N/25/12R	18.5	25	12	80		148	133	128	122	116	110	103	96	89	81	73	63	53	49		
SM63N/25/12*	18.5	25	12	80		153	137	132	126	120	113	106	99	92	84	75	65	55	51		
SM63N/30/14	22	30	14	80		175	158	152	145	138	130	122	114	106	97	87	77	66	62		
SM63N/30/15*	22	30	15	80		187	170	163	156	149	141	134	125	116	107	97	86	75	70		
SM63N/35/17	26	35	17	80		212	193	185	177	169	160	152	142	131	121	110	97	85	79		
SM63N/40/20	30	40	20	80	249	227	217	208	199	188	179	167	155	143	129	115	100	93			
SM63N/50/25	37	50	25	80	312	283	272	260	248	235	223	208	193	178	162	143	125	117			

\* Marked pumpsets are having ISI licence. WV - Wide Voltage. 30HP and above ranges will be supplied against order only.



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 150mm BOREWELL SUBMERSIBLE PUMPSET - BINDA 6D Series

																	MIXED FLOW		
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	32.4	34.2	36	37.8	39.6	43.2	46.8	50.4	54	57.6	61.2	64.8	68.4
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					Head in Metres	0	9	9.5	10	10.5	11	12	13	14	15	16	17	18	19
SM64/10/04	7.5	10	4	80		50	39	39	38	37	36	34	32	30	27	24	21	17	13
SM64/12.5/05	9.3	12.5	5	80		62	50	49	48	47	46	44	41	39	35	32	27	23	18
SM64/15/06R	11	15	6	80		75	58	57	56	55	53	51	49	46	42	38	34	28	22
SM64/17.5/07R	13	17.5	7	80		86	69	68	66	65	64	60	57	52	49	44	38	31	27
SM64/20/08R	15	20	8	80		102	79	77	76	74	73	69	65	60	55	49	44	37	29
SM64/20/09	15	20	9	80		110	87	86	84	82	80	76	70	65	59	52	46	39	31
SM64/25/10R	18.5	25	10	80		128	98	95	93	92	90	87	81	76	71	64	56	49	39
SM64/30/12	22	30	12	80		158	121	118	115	114	112	107	101	94	88	79	70	60	48
SM64/35/14	26	35	14	80		185	141	137	134	133	130	125	118	109	102	92	81	70	56
SM64/40/16	30	40	16	80		211	162	157	154	152	149	142	134	125	117	106	93	80	64
SM64/50/20	37	50	20	80		264	202	196	192	190	186	178	168	156	146	132	116	100	80

### MATERIAL OF CONSTRUCTION - MOTOR

Part Name	Materials
Upper & Lower Housing	Cast Iron
Stator Shell	SS 304
Shaft	SS 410
Journal Bushes	LTB - 4 & Carbon
Thrust Pad	SS 420 & Graphite carbon
Diaphragm	High Nitrile butyl rubber

### MATERIAL OF CONSTRUCTION - PUMP

Part Name	Materials
Suction Housing	Cast Iron with SS 304 / SS 304 Top Plate
Brackets	Cast iron
Pump Shaft	SS 410
Impeller	SS 410
Counter thrust pad	Carbon Teflon bush
Stage Casing/Diffuser	SS 304 & SS 410 / Noryl
Coupling	SS 410

\* Marked pumpsets are having ISI licence. 30HP and above ranges will be supplied against order only.





## 150mm /175mm & 150mm /200mm Borewell Submersible Pumpset - CONGO Series

C.R.I. Borewell Submersible Pumpset are powered by water filled, rewindable submersible motor suitable for continuous duty. T-Bolt design in all motor ensures rigid construction. Optimal design of impellers and diffusers offers best possible hydraulic efficiency. Built-in check valve prevents back flow and reduces the risk of water hammering. This 175mm & 200mm submersible pumpsets are supplied with 150mm motor combination

### SALIENT FEATURES

- High operating efficiency • Dynamically balanced rotating parts ensures minimum vibration and longer life
- Extremely tough and hard wearing lubricated journal bearings are used • Designed for wide voltage fluctuations
- Better efficiency and consistent performance • Specially designed high performance thrust bearing (SS 420 with Graphite Carbon) to withstand high axial thrust load • SS 410 impellers and hard chrome SS Sleeves are used to increase the life of the pump.

### APPLICATION

- Agriculture • Domestic • Irrigation • Gardens • Civil & Industrial water supply • Rural Water Supply • Ponds
- Firefighting • Pressure boosting

### SPECIFICATIONS

	150mm/175mm	150mm/200mm
Power range	4.5 kW - 18.5 kW (6 HP - 25 HP)	5.5 kW - 26 kW (7.5 HP - 35 HP)
Speed	2850 RPM	
Version	Three phase 380 - 415V, 50Hz AC Supply	
Maximum total head	101 Metre	117 Metre
Maximum flow rate	33.3 LPS (120 m <sup>3</sup> /hr)	34.26 LPS (123.3 m <sup>3</sup> /hr)
Maximum outer diameter	180 mm	198 mm
Thrust load	4.5 kW - 15 kW - 3500 LBS	5.5 kW - 11 kW - 3500 LBS; 15 kW - 18.5 kW - 6000 LBS
Type of duty	S1 (Continuous)	
Method of starting	D.O.L upto 5.5 kW, SD upto 15kW	SD 5.5 kW - 18.5 kW
Nominal outlet size	100 mm	



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 150mm / 175mm BOREWELL SUBMERSIBLE PUMPSET - CONGO Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	10	20	30	40	50	60	65	70	80
					DISCHARGE	0	2.77	5.56	8.34	11.11	13.88	16.66	18.05	19.4	22.2
S7C-42N/6/03*	4.5	6	3	100	Head in Metres	37	35	33	31	28	24	19	17	14	8

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	18	23.9	27	33	39	45	51	57	63	69	78
					DISCHARGE	0	5	6.66	7.5	9.17	10.84	12.5	14.17	15.83	17.5	19.17	20.83
S7C-44N/6/02*	4.5	6	2	100	Head in Metres	32	29	28	27	26	25	24	23	22	20	17	15

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	10	20	30	40	50	60	65	Star Rating
					DISCHARGE	0	2.77	5.56	8.34	11.11	13.88	16.66	18.05	
S7C-48N/12.5/04	9.3	12.5	4	100	Head in Metres	76	75	72	67	60	52	41	32	3 star

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	10	20	30	40	50	60	65	70	80	90	Star Rating
					DISCHARGE	0	2.77	5.56	8.34	11.11	13.88	16.66	18.05	19.4	22.2	25	
S7C-50N/7.5/03	5.5	7.5	3	100	Head in Metres	42	39	37	35	32	29	24	21	18	12		3 star
S7C-50N/10/03	7.5	10	3	100		48	46	44	42	41	38	34	31	28	22	16	3 star
S7C-50N/12.5/04	9.3	12.5	4	100		65	62	60	57	54	50	44	41	37	29	20	3 star
S7C-50N/15/05	11	15	5	100		78	75	72	69	65	61	54	51	45	36	24	3 star

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	10	20	30	40	50	60	65	70	80	90	Star Rating
					DISCHARGE	0	2.77	5.56	8.34	11.11	13.88	16.66	18.05	19.4	22.2	25	
S7C-54N/7.5/02	5.5	7.5	2	100	Head in Metres	33	32	30	29	27	26	23	21	19	15	11	3 star

\* Marked pumpsets are having ISI licence.





# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 150mm / 175mm BOREWELL SUBMERSIBLE PUMPSET - CONGO Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	25.2	32.4	39.6	46.8	54	61.2	68.4	75.6	82.8	90	97.2	
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	7	9	11	13	15	17	19	21	23	25	27	
					Head in Metres	67	60	59	57	54	52	48	44	38	33	27	27	6

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	18	23.98	27	33.01	39.02	45	51.01	56.98	63	69.01	74.98
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	5	6.66	7.5	9.17	10.84	12.5	14.17	15.83	17.5	19.17	20.83
					Head in Metres	40	35	34	33	31	30	28	26	25	23	21	18
WC7CM-50/6/03	4.5	6	3	100		40	35	34	33	31	30	28	26	25	23	21	18
WC7CM-50/7.5/04	5.5	7.5	4	100		45	41	41	40	39	37	35	31	29	26	22	18
WC7CM-50N/10/04	7.5	10	4	100		45	42	41	40	39	37	35	31	29	26	22	18
WC7CM-50/10/05	7.5	10	5	100		61	55	52	51	48	46	44	41	39	37	34	30
WC7CM-50N/12.5/05	9.3	12.5	5	100		62	56	53	52	49	47	45	42	40	38	35	31
WC7CM-56/5/02	3.7	5	2	100		26	25	24.5	24	23	22	21	20	18.5	18	16	15
WC7CM-56/6/02	4.5	6	2	100		30	29	28	27	25	23	21	20	19	18	17	15
WC7CM-56/7.5/03	5.5	7.5	3	100		41	37	36	35	34	32	31	29	28	26	24	22
WC7CM-56/10/04	7.5	10	4	100		51	47	45	44	41	40	38	36	35	33	31	30
WC7CM-56N/12.5/04	9.3	12.5	4	100		52	48	46	45	42	41	39	37	36	34	32	31
WC7CM-56/12.5/05	9.3	12.5	5	100		66	61	59	58	55	53	50	47	45	42	39	35
WC7CM-56N/15/05	11	15	5	100		67	62	60	59	56	54	51	48	46	43	40	36
WC7CM-56/15/06	11	15	6	100		74	71	69	69	67	65	63	60	58	55	51	48
WC7CM-56/17.5/07	13	17.5	7	100		88	84	82	81	78	76	73	70	68	64	61	57
WC7CM-60/10/03	7.5	10	3	100		46	42	41	40	39	37	36	34	33	31	29	27
WC7CM-60/12.5/04	9.3	12.5	4	100		62	56	54	53	51	48	46	43	42	39	37	34
WC7CM-60/15/05	11	15	5	100		75	69	67	66	64	61	59	56	53	51	48	45
WC7CM-60/17.5/06	13	17.5	6	100		85	78	76	75	72	70	67	64	61	57	53	49
WC7CM-60/20/07	15	20	7	100		99	91	89	88	85	81	78	73	69	65	61	57
WC7CM-60N/15/04	11	15	4	100		63	57	55	54	52	49	47	44	43	40	38	35

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# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 150mm / 175mm BOREWELL SUBMERSIBLE PUMPSET - CONGO Series

### MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	25.2	32.4	39.6	46.8	54	61.2	68.4	75.6	82.8	90	97.2	104.4	111.6
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	7	9	11	13	15	17	19	21	23	25	27	29	31
WC7CM-61/7.5/02	5.5	7.5	2	100	Head in Metres	34	29	28	27	26	25	23	21	19	16	14	11		
WC7CM-61/10/02N SPL	7.5	10	2	100		34	29	28	27	26	25	23	21	19	16	14	11		
WC7CM-61/15/04	11	15	4	100		66	60	59	56	54	52	50	48	45	42	37	32		
WC7CM-61/20/05	15	20	5	100		80	71	69	67	65	62	60	56	51	45	39	31		
WC7CM-61/25/06	18.5	25	6	100		101	91	88	86	84	81	77	74	69	63	57	50	43	34

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	25.2	32.4	39.6	46.8	54	61.2	68.4	75.6	82.8	90	97.2	104.4	111.6
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	7	9	11	13	15	17	19	21	23	25	27	29	31
WC7CM-69/5/03 SPL	3.7	5	3	100	Head in Metres	39	34	33	32	30	29	26	24	21	18	14	11		
WC7CM-69/7.5/03	5.5	7.5	3	100		45	39	38	37	36	35	33	31	28	25	22	19		
WC7CM-69/7.5/03N SPL	5.5	7.5	3	100		40	35	34	33	31	30	27	25	21	19	15	12	10	
WC7CM-69/10/02	7.5	10	2	100		39	35	34	33	32	30	29	27	25	22	19	16		
WC7CM-69/10/03N	7.5	10	3	100		46	40	39	38	37	36	34	32	29	26	23	14		
WC7CM-69/12.5/02N	9.3	12.5	2	100		40	36	35	34	33	31	30	28	26	23	20	17		
WC7CM-69/15/03	11	15	3	100		56	48	46	45	44	43	41	40	37	34	31	26		
WC7CM-69/20/04	15	20	4	100		77		75	70	65	61	57	54	51	48	44	38		
WC7CM-69/25/05	18.5	25	5	100		91	84	82	80	78	75	73	70	65	60	54	48	42	34

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	18	22	27	33	39	45	50	57	63	75	87	99	104	111	117	120
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	5	6	7.5	9.17	10.84	12.5	14.17	15.83	17.5	20.83	24.17	27.5	29	30.8	32.5	33.3
WC7CM-69/10/03	7.5	10	3	100	Head in Metres	48	45	44	43	42	41	40	39	38	36	33	28	22	19	15	12	10
WC7CM-69/12.5/03	9.3	12.5	3	100		54	50	49	48	47	46	45	44	42	41	38	33	26	23	20	16	14
WC7CM-69/12.5/03N SPL	9.3	12.5	3	100		47	44	43	42	41	40	39	38	37	35	32	27	21	18	14	11	9
WC7CM-69/15/03N	11	15	3	100		53	49	48	47	46	45	44	43	41	40	37	32	25	22	19	15	13

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	32.4	39.6	46.8	54	61.2	68.4	75.6	82.8	90	97.2
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	9	11	13	15	17	19	21	23	25	27
WC7CM-75/12.5/02	9.3	12.5	2	100	Head in Metres	41	36	35	34	32.5	31	29	26.5	23.5	21	18.5





# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 150mm / 200mm BOREWELL SUBMERSIBLE PUMPSET - CONGO Series

																		MIXED FLOW	
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	20	30	40	50	60	75	80	90	100	110	120	Star Rating	
					DISCHARGE lps	0	5.56	8.33	11.12	13.90	16.68	20.83	22.22	25	27.77	30.55	33.33		
S68C-62N/10/2*	7.5	10	2	100	Head in Metres	39	37	36	35	34	32	30	26	23	19	14	8	3 star	
S68C-62N/15/3*	11	15	3	100	Head in Metres	60	56	55	54	52	50	44	42	36	31	24	11	3 star	
S68C-62N/20/04*	15	20	4	100	Head in Metres	81	76	74	72	70	66	60	56	49	41	32	23	3 star	

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	20	30	40	50	60	75	80	90	100	110	120	Star Rating
					DISCHARGE lps	0	5.56	8.33	11.12	13.90	16.68	20.83	22.22	25	27.77	30.55	33.33	
S68C-68N/12.5/2*	9.3	12.5	2	100	Head in Metres	45	43	42	41	40	38	35	34	31	27	24	7	3 star

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	20	30	40	50	60	75	80	90	100	110	120	Star Rating
					DISCHARGE lps	0	5.56	8.33	11.12	13.90	16.68	20.83	22.22	25	27.77	30.55	33.33	
S68C-75N1/17.5/3*	13	17.5	3	100	Head in Metres	67	63	61	60	59	57	54	51.5	47	42.5	36	28	3 star
S68C-75N1/20/3*	15	20	3	100	Head in Metres	72	66	65	63	62	60	56	54.5	50	45	38	31	3 star

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	18	23.98	27	33.01	39.02	45	51.01	56.98	63	69.01	74.98	81	87.01
					DISCHARGE lps	0	5	6.66	7.5	9.17	10.84	12.5	14.17	15.83	17.5	19.17	20.83	22.5	24.17
WC8CM-50/10/03	7.5	10	3	100	Head in Metres	54	52	50	49	47	45	43	40	38	35	32	29	25	21

\* Marked pumpsets are having ISI licence.

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 150mm / 200mm BOREWELL SUBMERSIBLE PUMPSET - CONGO Series

Model	kW	HP	Stage	Outlet Size in mm	MIXED FLOW											
					m <sup>3</sup> /hr	0	20	30	40	50	60	65	68	70	80	90
					DISCHARGE lps	0	5.55	8.33	11.11	13.88	16.66	18.05	18.88	19.44	22.22	25
WC8CM-58/10/03	7.5	10	3	100	Head in Metres	56	50	49	46	43	38	34	32	27	21	14

Model	kW	HP	Stage	Outlet Size in mm	MIXED FLOW													
					m <sup>3</sup> /hr	0	18	23.98	27	33.01	39.02	45	51.01	56.98	63	69.01	74.98	81
					DISCHARGE lps	0	5	6.66	7.5	9.17	10.84	12.5	14.17	15.83	17.5	19.17	20.83	22.5
WC8CM-60/7.5/02	5.5	7.5	2	100	Head in Metres	35	34	33	32	31	30	29	27	26	24	23	22	20
WC8CM-60/10/02N	7.5	10	2	100		36	35	34	33	32	31	30	28	27	25	24	23	21
WC8CM-60/12.5/03	9.3	12.5	3	100		60	55	53	52	51	49	48	47	46	45	44	41	39
WC8CM-60/20/05	15	20	5	100		98	85	82	81	77	74	70	65	61	55	49	43	37

Model	kW	HP	Stage	Outlet Size in mm	MIXED FLOW											
					m <sup>3</sup> /hr	0	18	23.98	27	33.01	39.02	45	51.01	56.98	63	69.01
					DISCHARGE lps	0	5	6.66	7.5	9.17	10.84	12.5	14.17	15.83	17.5	19.17
WC8CM-65/12.5/03	9.3	12.5	3	100	Head in Metres	68	60	57	55	51	47	43	42	36	30	24
WC8CM-65/12.5/04 SPL	9.3	12.5	4	100		82	75	71	66	62	56	51	49	42	33	24
WC8CM-65/15/03N	11	15	3	100		68	60	57	55	51	47	43	42	36	30	24
WC8CM-65/15/04	11	15	4	100		84	77	73	68	64	58	53	51	44	35	26





# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 150mm / 200mm BOREWELL SUBMERSIBLE PUMPSET - CONGO Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	36.8	69.2	84.4	95.5	106.7	113.9	122.0
					DISCHARGE	0	10.23	19.21	23.44	26.54	29.65	31.64	33.88
WC8CM-68/10/02	7.5	10	2	100	Head in Metres	43	39	35	31	28	24	20	12

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	24	54.4	74.1	85.2	84.1	94.9	110.9
					DISCHARGE	0	6.7	15.1	20.6	23.7	23.4	26.4	30.8
WC8CM-68/12.5/02N-SPL	9.3	12.5	2	100	Head in Metres	42	39	35	31	27	23	19	11

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	24	54.4	74.1	85.2	84.1	94.9	110.9	120.2
					DISCHARGE	0	6.7	15.1	20.6	23.7	23.4	26.4	30.8	33.4
WC8CM-68/15/03	11	15	3	100	Head in Metres	67	61	56	52	47	42	37	32	22

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	24	54.4	74.1	85.2	94.9	110.9	120.2
					DISCHARGE	0	6.7	15.1	20.6	23.7	26.4	30.8	33.4
WC8CM-68/17.5/04	13	17.5	4	100	Head in Metres	85	78	71	63	56	50	36	24

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	19.3	45.7	65.3	77.1	86.1	100	121.7	123.3
					DISCHARGE	0	5.63	12.7	18.15	21.43	23.92	27.79	33.8	34.26
WC8CM-68/20/04	15	20	4	100	Head in Metres	87	81	76	71	66	61	52	32	12

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 150mm / 200mm BOREWELL SUBMERSIBLE PUMPSET - CONGO Series

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE											
						0	20	30	40	50	60	75	80	90	100	110	120
						0	5.55	8.33	11.11	13.88	16.66	20.83	22.22	25	27.78	30.55	33.33
WC8CM-68/25/04	18.5	25	4	100	Head in Metres	88	80	77	75	73	70	64	61	55	48	39	28
WC8CM-68/25/05	18.5	25	5	100	Head in Metres	117	100	96	90	84	77	73	68	57	47	36	

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE											
						0	20	30	40	50	60	75	80	90	100	110	120
						0	5.55	8.33	11.11	13.88	16.66	20.83	22.22	25	27.78	30.55	33.33
WC8CM-75/30/04*	22	30	4	100	Head in Metres	90	87	84	82	78	73	67	64	59	51	43	33
WC8CM-75/35/05*	26	35	5	100	Head in Metres	112	107	105	102	98	92	84	81	75	66	55	43

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE																	
						0	18	22	27	33	39	45	50	57	63	68	75	81	87	93	99	104	110
						0	5	6	7.5	9.2	10.8	12.5	14	15.8	17.5	19	20.8	22.5	24.2	25.8	27.5	29	30.8
WC8CM-80/17.5/03	13	17.5	3	100	Head in Metres	66	62	61	59	57	55	53	51	50	49	48	45	43	40	38	33	30	27
WC8CM-90/12.5/02	9.3	12.5	2	100	Head in Metres	46	43	42	41	41	40	39	38.5	38	37	36	35	33	32	30	28	26	24
WC8CM-90/15/02N	11	15	2	100	Head in Metres	48	45	44	43	43	42	41	40	40	39	38	37	35	34	32	30	28	26
WC8CM-90/15/02	11	15	2	100	Head in Metres	54	50	49	48	47	46	45	44	42	41	40	39	37	36	34	32	30	27
WC8CM-90/20/03	15	20	3	100	Head in Metres	77	70	69	67	65	64	62	61	60	58	57	55	53	51	49	46	43	39
WC8CM-90/25/03	18.5	25	3	100	Head in Metres	81	80	79	77	75	72	70	68	66	63	62	60	59	57	55	53	50	46

\* Marked pumpsets are having ISI licence.



# MATERIAL OF CONSTRUCTION

## 150mm / 200mm BOREWELL SUBMERSIBLE PUMPSET - CONGO Series

MOTOR	
150mm Motor	
Part Name	Material
Upper and lower housing	Cast iron
Stator shell	SS 304
Shaft	SS 410
Journal bushes	LTB - 4 & Carbon
Thrust assembly	SS 420 and Graphite carbon
Diaphragm	High nitrile butyl rubber

PUMP		
	175mm Pump	200mm Pump
Part Name	Material	Material
Check valve housing	Cast iron	Cast iron
Check valve seat	Nitrile butyl rubber	SG iron
Diffuser chamber	Cast iron	Cast iron
Impeller	SS 410	SS 410
Suction inter connector	Cast iron	Cast iron
Inlet screen	SS 202	SS 202
Pump shaft	SS 410 / SS 431	SS 410 / SS 431
Cable guard	SS 202	SS 202
Coupling	SS 410	SS 410 / SS 431



## 200mm Borewell Submersible Pumpset - BHIMA Series

C.R.I. 200mm Borewell Submersible Pumpset are powered by water filled, rewindable submersible motor which is suitable for continuous duty. Pump components are specially designed for best possible hydraulic efficiency. Optimal design of impellers and diffusers offers best possible hydraulic efficiency. Built-in check valve prevents back flow and reduces the risk of water hammering.

### SALIENT FEATURES

- High operating efficiency
- SS 410 impellers and hard chrome sleeves are used to increase the life of the pump
- Extremely tough & hard wearing lubricated journal bearings are used
- Dynamically balanced rotating parts ensures minimum vibration and longer life
- Specially designed thrust bearing (SS 420 with Graphite carbon) to withstand high axial thrust load
- Designed for wide voltage fluctuations
- Best suitable for sprinkler applications
- Fully SS Pumpsets & Horizontal application models available.

### APPLICATION

- Agriculture
- Domestic
- Irrigation
- Gardens
- Civil & Industrial water supply
- Rural Water Supply
- Ponds
- Firefighting
- Pressure boosting

### SPECIFICATIONS

#### BHIMA Series

Power range	7.5 kW - 63.5 kW (10 HP - 85 HP)
Speed	2850 RPM
Version	Three phase 380 - 415V, 50Hz, AC Supply
Maximum total head	439 Metre
Maximum flow rate	53.33 LPS (192 m <sup>3</sup> /hr)
Maximum outer diameter	198 mm
Thrust load	7.5 kW - 11 kW - 3500 LBS, 15 kW - 18.5 kW - 6000 lbs, 22 kW - 55 kW - 10000 LBS
Type of duty	S1 (Continuous)
Method of starting	Star Delta (SD) - 7.5 kW - 63.5 kW
Maximum starts per hour	20 Times
Nominal outlet size	80, 100 & 125 mm





# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 200mm BOREWELL SUBMERSIBLE PUMPSET - BHIMA Series

**RADIAL FLOW**

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr lps	0	5	10	15	20	25	30	33	36
						DISCHARGE								
S8C- 25/30/12	22	30	12	80	Head in Metres	255	246	236	227	217	208	195	183	171
S8C- 25/40/16	30	40	16	80	Head in Metres	324	322	319	313	302	281	250	225	196
S8C- 25/50/20	37	50	20	80	Head in Metres	416	380	368	362	354	341	318	298	276

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr lps	0	10	15	20	25	30	35	38	40	42	45
						DISCHARGE										11.11
S8C-30/25/08	18.5	25	8	80	Head in Metres	174	163	158	152	146	140	130	123	117	112	103
S8C-30/40/14	30	40	14	80	Head in Metres	314	282	275	270	265	256	237	224	214	204	186
S8C-30/45/16	34	45	16	80	Head in Metres	350	317	312	308	304	297	278	263	252	241	221
S8C-30/50/18	37	50	18	80	Head in Metres	391	369	359	348	339	327	306	291	279	267	245
S8C-30/60/20	45	60	20	80	Head in Metres	439	398	389	383	376	368	346	328	314	300	276

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr lps	0	5	10	15	20	25	30	36
						DISCHARGE							
WC8BA-20/30/12	22	30	12	80	Head in Metres	261	255	246	234	212	173	131	73
WC8BA-23/30/10	22	30	10	80	Head in Metres	217	214	206	196	173	144	105	56
WC8BA-25/30/12	22	30	12	80	Head in Metres	297	288	277	269	245	218	185	140
WC8BA-25/40/14	30	40	14	80	Head in Metres	307	302	292	278	248	205	154	92

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 200mm BOREWELL SUBMERSIBLE PUMPSET - BHIMA Series

**RADIAL FLOW**

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE											
					m <sup>3</sup> /hr	0	5	10	15	20	23	25	27	29	31	36
					lps	0	1.39	2.78	4.17	5.56	6.39	6.94	7.5	8.06	8.61	10
WC8BA-27/35/12	26	35	12	80	Head in Metres	300	292	287	268	249	236	224	211	197	182	140
WC8BA-27/40/14S	30	40	14	80	Head in Metres	341	333	320	304	283	266	255	242	227	207	165
WC8BA-27/40/14	30	40	14	80	Head in Metres	352	343	330	313	292	274	263	249	234	213	170

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE													
					m <sup>3</sup> /hr	0	10	15	20	25	30	35	38	40	45	50	55	60
					lps	0	2.78	4.17	5.56	6.94	8.33	9.72	10.56	11.11	12.50	13.89	15.28	16.67
WC8BA-30/20/07	15	20	7	80	Head in Metres	176	169	153	146	138	124	104	89	79	56			
WC8BM-30/30/10 SPL	22	30	10	80	Head in Metres	214	195	190	186	181	175	167	160	155	140	120	92	61
WC8BM-30/30/10S	22	30	10	80	Head in Metres	210	192	188	184	180	172	163	156	150	132	110	90	60
WC8BM-30/50/18	37	50	18	80	Head in Metres	391	369	359	348	339	327	306	291	279	245			

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE													
					m <sup>3</sup> /hr	0	10	15	20	25	31	35	38	40	45	50	55	60
					lps	0	2.78	4.17	5.56	6.94	8.61	9.72	10.56	11.11	12.50	13.89	15.28	16.67
WC8BM-35/35/10	26	35	10	80	Head in Metres	214	195	190	186	183	179	171	166	162	150	133	112	89
WC8BM-35/40/12	30	40	12	80	Head in Metres	256	236	230	224	219	213	205	199	194	178	157	133	107
WC8BM-35/45/14	34	45	14	80	Head in Metres	295	270	263	258	253	245	236	227	222	202	177	147	115
WC8BM-35/50/15*	37	50	15	80	Head in Metres	310	294	284	275	265	255	243	234	227	205	181	151	117
WC8BM-35/50/16*	37	50	16	80	Head in Metres	328	306	295	285	276	268	256	245	238	215	188	157	120
WC8BM-35/60/18*	45	60	18	80	Head in Metres	371	343	332	320	312	303	290	278	270	244	214	179	139

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE												
					m <sup>3</sup> /hr	0	5	10	15	20	25	30	35	36	38	40	42
					lps	0	1.39	2.78	4.17	5.56	6.94	8.33	9.72	10	10.56	11.11	11.67
WC8BA-36/25/08H	18.5	25	8	80	Head in Metres	212	206	199	193	185	172	153	129	124	114	104	94

\* Marked pumpsets are having ISI licence. H - Stands for Horizontal Model.





# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 200mm BOREWELL SUBMERSIBLE PUMPSET - BHIMA Series

### RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	10	20	30	40	42	44	46	48	50	60	
						DISCHARGE											
						lps	0	2.78	5.56	8.33	11.11	11.67	12.22	12.78	13.33	13.89	16.67
WC8BM-42N/25/06	18.5	25	6	80	Head in Metres	123	117	111	108	102	100	97	95	92	88	63	
WC8BM-42N/30/08	22	30	8	80		161	153	146	140	131	128	124	120	116	111	79	
WC8BM-42N/45/12	34	45	12	80		242	231	220	210	196	192	188	183	177	170	126	
WC8BA-42N/75/16	55	75	16	80		336	314	301	294	276	271	265	258	249	239	172	

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	10	20	30	40	44	46	48	50	55	60		
						DISCHARGE												
						lps	0	2.78	5.56	8.33	11.11	11.67	12.22	12.78	13.33	13.89	15.28	16.67
WC8BA-45/85/18	63.5	85	18	80	Head in Metres	332	324	314	300	276	270	263	255	246	236	207	177	
WC8BA-50/85/16	63.5	85	16	80		347	341	327	307	282	274	265	255	244	233	197	161	

### MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	10	20	30	40	50	60	65	
						DISCHARGE								
						lps	0	2.78	5.56	8.33	11.11	13.89	16.68	18.06
WC8BM-48/10/03S	7.5	10	3	100	Head in Metres	55	53	49	46	43	37	29	23	
WC8BM-48/10/03	7.5	10	3	100		57	55	51	47	44	38	30	24	
WC8BM-48/20/06	15	20	6	100		118	114	109	103	93	81	65	55	
WC8BM-48/20/07S	15	20	7	100		129	122	116	109	99	86	67	57	
WC8BM-48/25/07S	18.5	25	7	100		131	128	118	111	101	89	70	61	
WC8BM-48/25/07	18.5	25	7	100		135	132	122	114	104	92	72	63	
WC8BM-48/30/10	22	30	10	100		190	181	171	160	144	126	104	91	
WC8BM-48/40/12	30	40	12	100		234	223	212	200	184	162	136	116	

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 200mm BOREWELL SUBMERSIBLE PUMPSET - BHIMA Series

																			MIXED FLOW	
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	10	20	30	40	50	56	58	60	62	64	70	80	90	100
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
WC8BM-60/12.5/03	9.3	12.5	3	100	Head in Metres	0	2.78	5.56	8.33	11.11	13.89	15.56	16.11	16.67	17.22	17.78	19.44	22.22	25	27.78
WC8BM-60/12.5/03S	9.3	12.5	3	100		56	55	54	52	50	47	45	43	42	41	40	38	33	27	19
WC8BM-60/15/04	11	15	4	100		54	53	52	50	49	46	44	42	41	40	39	37	32	26	18
WC8BM-60/15/04S	11	15	4	100		71	69	67	64	60	58	57	56	55	54	52	48	40	32	21
WC8BM-60/20/05	15	20	5	100		69	67	65	62	58	56	55	54	53	52	50	47	39	31	20
WC8BM-60/20/05S	15	20	5	100		88	84	82	78	74	70	69	68	66	65	63	58	47	33	23
WC8BM-60/25/06H*	18.5	25	6	100		85	81	80	76	72	68	67	66	64	63	61	56	46	32	22
WC8BM-60/25/06	18.5	25	6	100		105	100	98	93	88	84	82	80	79	78	75	70	56	40	27
WC8BM-60/30/8S	22	30	8	100		105	100	98	93	88	84	82	80	79	78	75	70	56	40	27
WC8BM-60/30/8*	22	30	8	100		131	125	121	116	112	109	104	102	100	98	96	87	71	54	37
WC8BM-60/40/10S	30	40	10	100		135	129	125	120	115	112	107	105	103	101	99	90	73	56	38
WC8BM-60/40/10*	30	40	10	100		176	169	162	157	152	149	143	141	139	138	128	122	109	87	62
WC8BM-60/50/12*	37	50	12	100		181	174	167	162	157	154	147	145	143	142	132	126	112	90	64
WC8BM-60/50/13	37	50	13	100		218	213	206	196	188	177	170	168	166	160	157	150	133	112	85
						222	215	209	202	195	187	183	181	179	175	172	161	135	108	80

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	20	30	40	50	60	68	70	80	90	100
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
WC8BM-62/40/08	30	40	8	100	Head in Metres	0	5.56	8.33	11.11	13.89	16.67	18.89	19.44	22.22	25	27.78
WC8BM-62/50/10	37	50	10	100		150	136	129	122	114	104	95	93	78	61	43
WC8BM-62/50/12	37	50	12	100		186	169	160	151	141	128	116	113	96	77	54
						204	188	179	169	159	144	130	126	104	80	55

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	20	30	40	50	60	68	70	80	90	100
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
WC8BA-62/60/12	45	60	12	80	Head in Metres	0	5.56	8.33	11.11	13.89	16.63	18.89	19.44	22.22	25	27.78
						253	223	212	200	199	174	158	153	132	109	85

\* Marked pumpsets are having ISI licence. H - Stands for Horizontal Model.





# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 200mm BOREWELL SUBMERSIBLE PUMPSET - BHIMA Series

														MIXED FLOW		
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	20	30	40	50	60	68	70	80	90	100
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
WC8BM-68/10/02	7.5	10	2	100	Head in Metres	0	5.56	8.33	11.11	13.89	16.67	18.89	19.44	22.22	25	27.78
WC8BM-68/15/03S	11	15	3	100		46	41	39	37	33	31	29	27	23	18	14
WC8BM-68/20/04S	15	20	4	100		69	61	56	54	51	46	43	42	37	31	22
WC8BM-68/20/04H	15	20	4	100		91	80	75	71	67	60	56	53	48	39	30
WC8BM-68/25/05S	18.5	25	5	100		94	82	77	73	69	62	58	55	49	40	31
WC8BM-68/25/05*	18.5	25	5	100		113	97	93	87	81	75	71	66	55	46	35
WC8BM-68/25/05H	18.5	25	5	100		117	100	96	90	84	77	73	68	57	47	36
WC8BM-68/25/05R	18.5	30	5	100		117	100	96	90	84	77	73	68	57	47	36
WC8BM-68/30/06*	22	30	6	100		113	97	93	87	81	75	71	66	55	46	35
WC8BM-68/30/06H*	22	30	6	100		136	119	112	105	98	90	83	80	68	55	41
WC8BM-68/35/07S	26	35	7	100		136	119	112	105	98	90	83	80	68	55	41
WC8BM-68/35/07	26	35	7	100		155	135	128	122	113	104	93	92	80	61	49
WC8BM-68/40/08S	30	40	8	100		160	139	132	126	117	107	96	95	82	63	51
WC8BM-68/40/08*	30	40	8	100		179	155	147	141	133	118	111	108	90	80	58
WC8BM-68/50/10*	37	50	10	100		185	160	152	145	137	122	114	111	93	82	60
WC8BM-68/60/12*	45	60	12	100		228	200	190	182	168	154	144	140	123	101	74
					276	240	230	214	203	184	173	164	142	122	91	

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	20	30	40	50	60	70	75	80	90	100
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
WC8BM-70/25/04	18.5	25	4	100	Head in Metres	0	5.56	8.33	11.11	13.89	16.69	19.44	20.83	22.22	25	27.78
WC8BM-70/50/08*	37	50	8	100		81	75	73	71	69	64	59	54	51	42	37
WC8BM-70/75/12*	55	75	12	100		157	150	147	143	139	133	122	116	111	95	74
WC8BM-70/85/14	63.5	85	14	100		236	227	223	220	217	211	191	182	171	150	120
					282	272	266	260	255	255	248	236	224	209	179	150

\* Marked pumpsets are having ISI licence. H - Stands for Horizontal Model.

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 200mm BOREWELL SUBMERSIBLE PUMPSET - BHIMA Series

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE											MIXED FLOW	
						0	20	30	40	50	60	75	80	90	100	110	120	
						0	5.56	8.33	11.11	13.89	16.67	20.83	22.22	25	27.78	30.56	33.33	
WC8BM-75/20/03*	15	20	3	100	Head in Metres	70	67	66	64	62	59	55	53	49	44	37	30	
WC8BM-75/25/04S	18.5	25	4	100		84	81	80	75	72	67	61	58	52	46	37	27	
WC8BM-75/25/04	18.5	25	4	100		87	83	82	77	74	69	63	60	54	47	38	28	
WC8BM-75/30/04S	22	30	4	100		87	84	81	80	76	71	65	62	57	49	42	32	
WC8BM-75/30/04	22	30	4	100		90	87	84	82	78	73	67	64	59	51	43	33	
WC8BM-75/35/05S	26	35	5	100		109	104	102	99	95	89	81	79	73	64	53	42	
WC8BM-75/35/05*	26	35	5	100		112	107	105	102	98	92	84	81	75	66	55	43	
WC8BM-75/60/08	45	60	8	100		178	170	165	161	156	149	134	130	119	104	87	69	
WC8BM-75/75/12	55	75	12	100		253	223	217	211	205	196	179	172	157	137	115	91	
WC8BM-75/85/12	63.5	85	12	100		271	260	252	243	231	219	202	195	177	153	126	95	
WC8BM-75/85/14	63.5	85	14	100		292	261	251	243	234	226	205	196	176	152	126	96	
WC8BM-75/85/15	63.5	85	15	100		301	270	260	252	243	233	211	202	182	157	129	98	

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE											Star Rating	
						0	20	30	40	50	60	75	80	90	100	110		120
						0	5.56	8.33	11.11	13.89	16.67	20.83	22.22	25	27.78	30.56		33.33
WC8BM-76/30/04*	22	30	4	100	Head in Metres	95	91	89	86	83	81	76	74	69	61	50	39	3 star

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE												
						0	20	40	60	80	88	90	92	94	96	100	120	136
						0	5.56	11.11	16.67	22.22	24.44	25	25.56	26.11	26.67	27.78	33.33	37.78
WC8BM-80/35/04S	26	35	4	100	Head in Metres	89	83	80	74	65	63	61	60	58	56	55	40	23
WC8BM-80/35/04	26	35	4	100		92	86	82	76	67	65	63	62	60	58	57	41	24
WC8BM-80/40/05S	30	40	5	100		112	105	100	92	81	79	76	75	73	71	69	79	29
WC8BM-80/40/05	30	40	5	100		115	108	103	95	84	81	78	77	75	73	71	51	30
WC8BM-80/75/10	55	75	10	100		230	216	205	189	167	162	157	153	150	147	142	102	60

\* Marked pumpsets are having ISI licence.





# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 200mm BOREWELL SUBMERSIBLE PUMPSET - BHIMA Series

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE												
						0	20	40	60	80	88	90	92	94	96	100	120	136
						lps	5.56	11.11	16.67	22.22	24.44	25	25.56	26.11	26.67	27.78	33.33	37.78
WC8BM-82/35/04*	26	35	4	100	Head in Metres	105	99	95	89	83	80	78	76	74	73	71	50	31

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE												
						0	20	40	60	70	80	85	92	100	110	120	136	
						lps	5.56	11.11	16.67	19.44	22.22	23.61	25.56	27.78	30.56	33.33	37.78	
WC8BM-95/12.5/02S(HD)	9.3	12.5	2	100	Head in Metres	45	43	41	38	36	34	33	30	27	22	18		
WC8BM-95/15/02S(HD)	11	15	2	100		52	49	46	42	40	38	36	34	32	27	23	14	
WC8BM-95/20/03S(HD)	15	20	3	100		72	69	64	59	55	53	51	48	42	36	29	11	
WC8BM-95/25/03S(HD)	18.5	25	3	100		77	73	69	63	60	57	55	52	49	43	35	23	
WC8BM-95/30/03S	22	30	3	100		75	73	70	65	63	60	59	56	52	48	41	20	
WC8BM-95/30/03	22	30	3	100		77	75	72	67	65	62	61	58	54	49	42	21	
WC8BM-95/40/04S	30	40	4	100		105	100	97	91	88	85	83	80	75	67	57	40	
WC8BM-95/50/05*	37	50	5	100		126	125	120	113	109	105	103	99	92	82	70	48	

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE															
						0	20	40	60	80	100	120	122	124	126	128	130	140	160	180	192
						lps	5.56	11.11	16.67	22.22	27.78	33.33	33.89	34.44	35	35.56	36.11	38.89	44.44	50	53.33
WC8BM-125/25/02*	18.5	25	2	125	Head in Metres	52	50	47	45	42	40	37	36	35	34	33	32	31	26	20	15

### MATERIAL OF CONSTRUCTION - MOTOR

Part Name	Material
Upper and lower housing	Cast iron
Stator shell	Stainless Steel
Shaft	SS 410
Journal bushes	LTB 4 / Nitrile rubber
Thrust assembly	SS 420 and Graphite carbon
Diaphragm	High nitrile butyl rubber

### MATERIAL OF CONSTRUCTION - PUMP

Part Name	Material
Check valve housing	Cast iron
Check valve seat	SG iron
Diffuser chamber	Cast iron
Impeller	SS 410
Suction inter connector	Cast iron
Inlet screen	SS 202
Pump shaft	SS 410 / SS 431
Cable guard	SS 202
Coupling	SS 410 / SS 431

\* Marked pumpsets are having ISI licence. HD - High Discharge.

## 100mm Borewell Submersible Pumpset - STEELIX 4 Series

C.R.I. offers 100% stainless steel submersibles for domestic and agriculture applications. These pumps are made of corrosive resistance stainless steel which results more longevity and hygiene. The optimal design enables best possible hydraulic efficiency and the wide range of products which is more suitable for saline water and industrial applications.

### SALIENT FEATURES

- Motor Pump components are made up of corrosive resistant SS 304 / SS 316
- Motor portion covered with corrosive resistance stainless steel SS 304 / SS 316 shell
- Best suitable for saline water and industrial applications
- High operating efficiency
- More longevity & hygiene
- Specially designed thrust bearing or angular contact ball bearing to withstand high axial thrust load
- Designed for wide voltage operation
- Additional intermediate bearing on higher stage pump to ensure the deflection free rotation of pump

### APPLICATION

- Residential
- Irrigation
- Civil water supply
- Fountains
- Fire fighting & Pressure Boosting
- Sprinkler Systems
- Industrial & Mining
- Food processing industry
- Golf Course
- De-Salination plants

### SPECIFICATIONS

	<b>STEELIX 4 Series</b>
Power range	2.2 kW - 7.5 kW (3 HP - 10 HP)
Speed	2850 RPM
Version	Single phase 220-240V, Three phase 380 - 415V, 50Hz, A.C. Supply
Maximum total head	495 Metre
Maximum flow rate	5 LPS (18 m <sup>3</sup> /hr)
Minimum cooling flow along the motor	0.15 m /sec
Type of duty	S1 (Continuous)
Method of starting	Single Phase - Capacitor Start Capacitor Run; Three Phase - DOL / SD
Maximum starts per hour	20 times
Nominal outlet size	32, 40 & 50mm





# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 100mm BOREWELL SUBMERSIBLE PUMPSET - STEELIX 4 Series

**RADIAL FLOW**

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	0.6	1.0	1.4	1.8	2.0	2.2	2.6
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	0.16	0.27	0.38	0.50	0.55	0.61	0.72
WA4BS-2/3/40	2.2	3	40	32	Head in Metres	249	232	218	195	165	144	127	92

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	0.41	0.55	0.69	0.83	0.97	1.11	1.25
WA4BS-3/3/29*	2.2	3	29	32	Head in Metres	190	181	170	159	140	117	89.5	50
WA4BS-3/5/52	3.7	5	52	32		330	303	290	272	244	206	162	103
WA4BS-3/5/60	3.7	5	60	32		384	345	328	304	274	228	180	110
WA4BS-3/6/65	4.5	6	65	32		403	360	342	320	290	345	190	115
WA4BS-3/7.5/80	5.5	7.5	80	32		495	442	420	394	352	300	234	140

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	2	3	4	5	6	7
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	0.55	0.83	1.10	1.39	1.66	1.94
WA4BS-5/3/25	2.2	3	25	40	Head in Metres	162	143	131	119	102	77	53
WA4BS-5/5/38	3.7	5	38	40		241	215	198	177	152	119	81
WA4BS-5/5/44	3.7	5	44	40		280	244	223	199	170	134	92
WA4BS-5/7.5/52	5.5	7.5	52	40		324	281	258	230	199	156	108
WA4BS-5/7.5/60	5.5	7.5	60	40		360	322	300	262	236	190	130
WA4BS-5/10/75	7.5	10	75	40		487	427	392	352	302	237	168

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	3	4	5	6	7	8	9	10	11
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	0.83	1.11	1.39	1.66	1.94	2.22	2.50	2.78	3.05
WA4BS-8/3/12*	2.2	3	12	50	Head in Metres	74	68	67	65	61	56	51	44	37	27
WA4BS-8/3/15	2.2	3	15	50		94	85	82	79	75	69	63	55	46	36
WA4BS-8/4/18	3	4	18	50		112	107	103	99	94	87	79	69	57	44
WA4BS-8/7.5/37	5.5	7.5	37	50		230	204	195	185	173	162	146	131	112	89

\* Marked pumpsets are having ISI licence.

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## 100mm BOREWELL SUBMERSIBLE PUMPSET - STEELIX 4 Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	4	6	8	10	12	14	16	18
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	1.11	1.66	2.22	2.78	3.33	3.89	4.44	5
WA4BS-14/10/25	7.5	10	25	50	Head in Metres	161	156	152	145	137	125	110	91	68

### MOTOR

Part Name	Material
Upper & Lower Housing	Cast Iron
Stator Shell	SS 304 / SS 441
Rotor Shaft	SS 431 / SS 410
Journal Bushes	Carbon
Thrust Assembly	SS 420 & Graphite Carbon

### PUMP

Part Name	Material
Impeller	SS 304
Stage Casing	SS 304
Pump Shaft	SS 304 / SS 431
Bracket	SS 304
Check Valve Housing	SS 304
Inlet Screen	SS 304





## 125mm/100mm Stainless Steel Borewell Submersible Pumpset - NILE<sup>+</sup> Series

C.R.I. Nile+ Series 125/100mm Fully Stainless Steel Borewell Submersible Pumpset are made of high quality SS 304/431 grade corrosion resistance stainless steel. The Optimal design of impellers and diffusers enables the best possible hydraulic efficiency. Motor Stator is made up of low watt loss Silicon Steel Laminations and wound with high grade copper windings wires for ensuring high efficiency of the Motor.

### SALIENT FEATURES

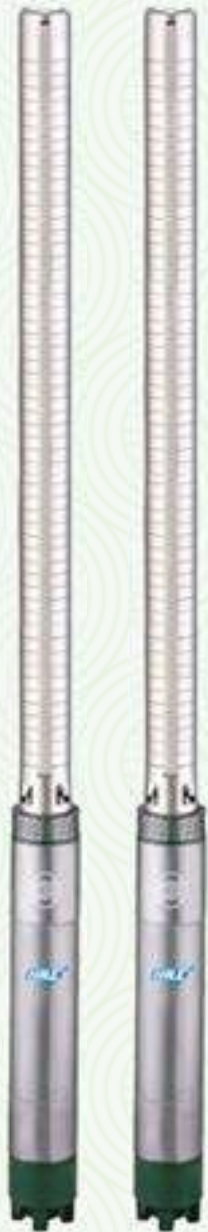
- T - Bolt design in all Motor ensures rigid construction
- Corrosion resistant stainless steel 304 grade pump parts ensures longer life
- Smooth surface finish results friction free flow of fluids
- High operating efficiency ensures more power savings
- Specially designed Thrust Bearings to withstand high axial thrust loads
- Designed for Wide Voltage operation
- Best suitable for 150mm under size borewell.

### APPLICATION

- Agricultural & Irrigation
- Sprinkler system
- Domestic water supply
- Pressure boosting
- Industrial and Mining

### SPECIFICATIONS

	NILE <sup>+</sup> SS Series
Power range	2.2kW – 9.3kW (3 HP to 12.5 HP)
Speed	2850 RPM
Version	Three phase 380 – 415V; 50Hz AC Supply
Maximum total head	780 Metre
Maximum flow rate	3.05 LPS (11 m <sup>3</sup> /hr)
Maximum outer diameter	124 mm
Thrust load	2.2 kW – 4.5 kW – 3500 lbs; 5.5 kW – 7.5 kW – 6000 lbs
Minimum cooling flow along the motor	0.15 m/sec
Type of duty	S1 (Continuous)
Method of starting	3Ph - Direct Online (D.O.L)
Maximum starts per hour	20 times
Nominal outlet size	32, 40 & 50 mm



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 125mm/100mm STAINLESS STEEL BOREWELL SUBMERSIBLE PUMPSET - NILE+ Series

**RADIAL FLOW**

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE								
					m <sup>3</sup> /hr	0	0.6	1	1.4	1.8	2	2.2	2.6
					lps	0	0.16	0.27	0.38	0.50	0.55	0.61	0.72
WCLAS-2/3/40	2.2	3	40	32	Head in Metres	249	232	218	195	165	144	127	92
WCLAS-2/3/48	2.2	3	48	32	Head in Metres	285	272	254	227	195	174	148	100

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE								
					m <sup>3</sup> /hr	0	1.5	2	2.5	3	3.5	4	4.5
					lps	0	0.41	0.55	0.69	0.83	0.97	1.11	1.25
WCLAS-3/3/33	2.2	3	33	32	Head in Metres	209	190	180	166	149	123	90	57
WCLAS-3/5/52	3.7	5	52	32	Head in Metres	320	295	280	263	240	207	160	97
WCLAS-3/5/60	3.7	5	60	32	Head in Metres	377	337	320	300	270	230	180	110
WCLAS-3/12.5/120	9.3	12.5	120	32	Head in Metres	780	705	670	630	580	500	410	275

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE							
					m <sup>3</sup> /hr	0	2	3	4	5	6	7
					lps	0	0.55	0.83	1.11	1.39	1.66	1.94
WCLAS-5/5/44	3.7	5	44	40	Head in Metres	280	244	223	199	170	134	92
WCLAS-5/10/75	5.5	10	75	40	Head in Metres	487	427	392	352	302	237	168
WCLAS-5/12.5/95	9.3	12.5	95	40	Head in Metres	620	545	510	470	410	340	240

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE										
					m <sup>3</sup> /hr	0	3	4	5	6	7	8	9	10	11
					lps	0	0.83	1.11	1.39	1.66	1.94	2.22	2.5	2.78	3.05
WCLAS-8/5/25	3.7	5	25	50	Head in Metres	155	142	136	130	124	116	106	94	79	63

### MATERIAL OF CONSTRUCTION - MOTOR

Part Name	Material
Upper & Lower Housing	Cast Iron
Stator Shell	SS 304
Rotor Shaft	SS 410
Journal Bushes	LTB - 4
Thrust Assembly	SS 420 and Graphite Carbon
Diaphragm	High Nitrile Butyl Rubber

### MATERIAL OF CONSTRUCTION - PUMP

Part Name	Material
Check Valve & Suction Housing	SS 304
Pump Shaft	SS 304
Impeller	SS 304
Stage Casing	SS 304
Bracket	SS 304
Inlet Screen	SS 304



## 150mm Stainless Steel Borewell Submersible Pumpset - STEELIX 6 Series

C.R.I. 150mm Stainless Steel - STEELIX 6 Submersible pumps are made of corrosion resistant stainless steel with built in check valve. All vital components of these pump models are made of high quality 304/316 grade stainless steel. The Optimal design of impellers and diffusers enables the best possible hydraulic efficiency. Motor Stator is made up of low watt loss Silicon Steel Laminations and wound with high grade insulated copper windings wires for ensuring high efficiency of the Motor.

### SALIENT FEATURES

- Best suitable for saline water and industrial applications
- More longevity & hygiene
- Specially designed thrust bearing to withstand high axial thrust load
- Extremely hard wearing water lubricated bush bearing
- Designed for wide voltage operation
- T-Bolt design motor ensures rigid construction
- Additional intermediate bearing on higher stage pump to ensure the deflection free rotation of pump.

### APPLICATION

- Residential
- Irrigation
- Civil water supply
- Fountains
- Rural water supply
- Fire fighting & Pressure Boosting
- Gardens
- Sprinkler Systems
- Industrial & Mining
- Food processing industry
- Golf Course
- De-Salination plants

### SPECIFICATIONS

	STEELIX Series
Power range	2.2 kW - 37 kW (3 HP - 50 HP)
Speed	2850 RPM
Version	Three phase 380 - 415V, 50Hz AC Supply
Maximum total head	740 Metre
Maximum flow rate	33.2 LPS (120 m <sup>3</sup> /hr)
Maximum outer diameter	144 mm
Type of duty	S1 ( Continuous )
Method of starting	Direct Online (D.O.L) upto 5.5 kW / Star Delta (SD) above 5.5 kW
Nominal outlet size	50, 65, 80, 100 mm
Maximum starts per hour	20 times



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 150mm STAINLESS STEEL BOREWELL SUBMERSIBLE PUMPSET - STEELIX 6 Series

										RADIAL FLOW			
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	6	8	10	12	14	16	18
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	1.66	2.22	2.78	3.33	3.89	4.44	5.00
WC6BS-14/5/07	3.7	5	7	50/65		Head in Metres	82	74	71	67	60	52	40
WC6BS-14/7.5/09	5.5	7.5	9	50/65	104		93	90	84	77	66	50	33
WC6BS-14/7.5/11	5.5	7.5	11	50/65	130		115	108	102	92	79	60	38
WC6BS-14/10/13	7.5	10	13	50/65	150		130	124	116	107	88	68	46
WC6BS-14/10/15	7.5	10	15	50/65	172		153	146	137	127	109	87	60
WC6BS-14/12.5/17	9.3	12.5	17	50/65	194		174	166	156	143	123	96	67
WC6BS-14/12.5/19	9.3	12.5	19	50/65	218		189	184	172	156	135	107	75
WC6BS-14/15/20	11	15	20	50/65	228		202	191	179	163	140	112	79
WC6BS-14/15/22	11	15	22	50/65	254		219	205	192	176	153	121	90
WC6BS-14/15/24	11	15	24	50/65	280		244	232	217	199	172	136	96
WC6BS-14/17.5/26	13	17.5	26	50/65	302		267	254	239	220	190	150	104
WC6BS-14/17.5/28	13	17.5	28	50/65	324		290	276	260	237	204	161	116
WC6BS-14/20/30	15	20	30	50/65	350		308	292	275	252	218	172	120
WC6BS-14/20/32	15	20	32	50/65	374		332	316	296	272	236	189	132
WC6BS-14/25/34	18.5	25	34	50/65	396		356	340	320	292	251	200	145
WC6BS-14/25/36	18.5	25	36	50/65	420		376	359	337	308	267	216	160
WC6BS-14/25/38	18.5	25	38	50/65	440		395	376	355	324	281	229	172
WC6BS-14/25/40	18.5	25	40	50/65	464		412	395	372	340	298	244	188
WC6BS-14/25/42	18.5	25	42	50/65	488		432	413	391	359	313	260	203
WC6BS-14/30/44	22	30	44	50/65	510		453	434	411	376	329	276	220
WC6BS-14/30/46	22	30	46	50/65	528	474	455	432	396	348	292	238	
WC6BS-14/30/48	22	30	48	50/65	550	491	471	448	416	368	312	252	
WC6BS-14/30/50	22	30	50	50/65	566	512	491	468	435	389	333	268	
WC6BS-14/35/54	26	35	54	50/65	620	552	515	494	455	408	350	280	
WC6BS-14/50/64	37	50	64	50/65	740	665	628	585	535	476	400	312	

Note : Aluminum Rotor are also available in selective models. STEELIX 6 models will be supplied against order only.





# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 150mm STAINLESS STEEL BOREWELL SUBMERSIBLE PUMPSET - STEELIX 6 Series

											RADIAL FLOW		
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	4	6	10	14	17	20	22
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					Head in Metres	0	1.1	1.66	2.78	3.89	4.27	5.55	7.22
						lps	0	1.1	1.66	2.78	3.89	4.27	5.55
WC6BS-17/3/04	2.2	3	4	65/80	Head in Metres	43	43	43	40	35	30	24	18
WC6BS-17/7.5/08	5.5	7.5	8	65/80		87	87	86	81	72	62	50	41
WC6BS-17/7.5/10	5.5	7.5	10	65/80		108	108	107	101	88	77	61	49
WC6BS-17/10/12	7.5	10	12	65/80		130	129	128	121	108	93	75	60
WC6BS-17/12.5/14	9.3	12.5	14	65/80		152	152	150	142	126	110	88	71
WC6BS-17/12.5/16	9.3	12.5	16	65/80		173	173	171	161	143	123	99	79
WC6BS-17/15/18	11	15	18	65/80		196	194	193	182	162	140	113	92
WC6BS-17/15/20	11	15	20	65/80		215	213	212	201	178	153	123	97
WC6BS-17/17.5/22	13	17.5	22	65/80		239	238	235	223	197	171	137	110
WC6BS-17/17.5/24	13	17.5	24	65/80		259	259	255	242	212	184	147	116
WC6BS-17/20/26	15	20	26	65/80		281	281	278	263	233	203	162	131
WC6BS-17/25/28	18.5	25	28	65/80		306	304	301	286	255	223	179	146
WC6BS-17/25/30	18.5	25	30	65/80		327	325	321	306	272	236	191	151
WC6BS-17/25/32	18.5	25	32	65/80		347	346	341	24	289	251	201	161
WC6BS-17/30/34	22	30	34	65/80		371	369	367	347	308	269	215	175
WC6BS-17/30/36	22	30	36	65/80		391	389	387	366	325	281	225	181
WC6BS-17/30/38	22	30	38	65/80		411	408	406	385	341	295	237	188
WC6BS-17/30/40	22	30	40	65/80		433	429	427	403	258	208	246	198
WC6BS-17/35/43	26	35	43	65/80		467	465	461	437	388	338	272	217
WC6BS-17/35/48	26	35	48	65/80		518	516	511	484	427	369	298	238
WC6BS-17/40/51	30	40	51	65/80	551	547	543	514	456	368	320	256	
WC6BS-17/40/53	30	40	53	65/80	570	568	563	534	474	408	330	263	
WC6BS-17/50/55	37	50	55	65/80	599	587	592	563	502	437	358	289	
WC6BS-17/50/60	37	50	60	65/80	651	649	640	611	544	474	386	313	

Note : Aluminum Rotor are also available in selective models. STEELIX 6 models will be supplied against order only.

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 150mm STAINLESS STEEL BOREWELL SUBMERSIBLE PUMPSET - STEELIX 6 Series

								RADIAL FLOW								
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE										
						0	10	12	14	16	18	20	22	24	26	28
					Head in Metres	0	2.77	3.3	3.89	4.44	5	5.55	6.11	6.67	7.22	7.77
						lps	0	2.77	3.3	3.89	4.44	5	5.55	6.11	6.67	7.22
WC6BS-22/7.5/06	5.5	7.5	6	65/80	Head in Metres	69	62	60	58	56	54	49	45	41	35	27
WC6BS-22/10/08	7.5	10	8	65/80		92	84	81	78	76	72	68	62	55	47	38
WC6BS-22/12.5/10	9.3	12.5	10	65/80		114	104	101	98	95	92	86	79	71	61	50
WC6BS-22/15/12	11	15	12	65/80		137	126	123	120	116	110	105	95	85	74	62
WC6BS-22/17.5/14	13	17.5	14	65/80		160	148	145	141	136	130	121	111	100	88	75
WC6BS-22/17.5/16	13	17.5	16	65/80		182	169	166	162	156	150	140	130	116	101	85
WC6BS-22/20/18	15	20	18	65/80		207	190	186	182	176	170	160	147	132	115	95
WC6BS-22/25/20	18.5	25	20	65/80		230	212	207	202	195	188	178	165	146	126	106
WC6BS-22/25/22	18.5	25	22	65/80		254	235	230	224	217	208	195	181	164	142	117
WC6BS-22/30/24	22	30	24	65/80		277	256	250	244	235	225	214	197	177	154	127
WC6BS-22/30/26	22	30	26	65/80		299	277	270	263	254	242	228	210	190	165	137
WC6BS-22/35/30	26	35	30	65/80		338	305	298	290	280	269	253	234	210	180	149
WC6BS-22/35/34	26	35	34	65/80		382	351	344	333	321	308	289	267	238	205	170
WC6BS-22/40/38	30	40	38	65/80		430	395	385	372	360	341	320	293	263	230	192
WC6BS-22/50/42	37	50	42	65/80		476	434	423	410	397	378	352	323	290	253	216
WC6BS-22/50/46	37	50	46	65/80		535	482	470	458	440	419	390	359	322	280	240

Note : Aluminum Rotor are also available in selective models. STEELIX 6 models will be supplied against order only.





# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 150mm STAINLESS STEEL BOREWELL SUBMERSIBLE PUMPSET - STEELIX 6 Series

														MIXED FLOW		
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	8	12	16	20	24	26	30	32	34	36
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					Head in Metres	0	2.22	3.33	4.44	5.55	6.60	7.22	8.33	8.90	9.40	10
						lps	0	2.22	3.33	4.44	5.55	6.60	7.22	8.33	8.90	9.40
WC6BS-30/7.5/05	5.5	7.5	5	80		58.5	55	53.8	51.8	49	46.5	45	40	37	34	31
WC6BS-30/7.5/06	5.5	7.5	6	80		70.5	67	65	62	59	55.8	53.5	48	45	42	38
WC6BS-30/10/07	7.5	10	7	80		82	78	76	73	69	65	62	56	52	48.5	45
WC6BS-30/10/08	7.5	10	8	80		92.5	88	86	83	79	74	71	63.5	59	54.5	50
WC6BS-30/12.5/10	9.3	12.5	10	80		117	111	108	104	99	93	89.5	81	75.5	70	63
WC6BS-30/15/12	11	15	12	80		137	131	127	122.5	117	111	107	98	91.5	85	77
WC6BS-30/17.5/14	13	17.5	14	80		160	152	148	142	136	128	124	112	105	97	88
WC6BS-30/20/16	15	20	16	80		187	175	169	164	156	148	143	130	121	112	102
WC6BS-30/25/18	18.5	25	18	80		208	198	192	185	177	166	160	146	137	127	116
WC6BS-30/25/20	18.5	25	20	80		232	218	211	204	196	184	177	162	152	140	128
WC6BS-30/30/22	22	30	22	80		252	240	234	226	216	202	194	175	164	152	139
WC6BS-30/30/24	22	30	24	80		272	257	248	240	228	215	207	188	175	160	146
WC6BS-30/30/26	22	30	26	80		292	277	268	259	246	230	220	199	185	170	154
WC6BS-30/35/28	26	35	28	80		315	302	292	279	264	246	235	212	198	182	166
WC6BS-30/40/32	30	40	32	80		366	355	338	322	304	283	272	245	225	207	200
WC6BS-30/40/35	30	40	35	80		400	387	370	350	331	307	293	363	344	222	217
WC6BS-30/50/38	37	50	38	80		420	417	405	385	363	336	320	290	263	247	232
WC6BS-30/50/43	37	50	43	80		489	477	453	430	412	381	365	323	300	276	261

Note : Aluminum Rotor are also available in selective models. STEELIX 6 models will be supplied against order only.

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 150mm STAINLESS STEEL BOREWELL SUBMERSIBLE PUMPSET - STEELIX 6 Series

														MIXED FLOW		
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	10	20	30	40	44	48	50	56	60	
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					Head in Metres	0	2.78	5.56	8.34	11.12	12.2	13.4	13.9	15.6	16.68	
WC6BS-48/7.5/03	5.5	7.5	3	80/100		40.8	39	36	32.5	28.5	26	24	24	23	18	14.5
WC6BS-48/10/04	7.5	10	4	80/100		54.5	52	48.2	43.8	38	35.5	32	32	30.8	24	20
WC6BS-48/10/05	7.5	10	5	80/100		67	64	59.5	53.8	47	44	40	40	37.8	30	24
WC6BS-4/12.5/06	9.3	12.5	6	80/100		80.5	77	71.5	65	56.5	52	48	48	45.5	36	29.8
WC6BS-48/15/07	11	15	7	80/100		94	90	84	75.5	66.2	62	56	56	53.5	42.5	35
WC6BS-48/17.5/08	13	17.5	8	80/100		108	103	96	87.3	76.5	71	65	65	61.8	50	41
WC6BS-48/20/10	15	20	10	80/100		134	128	119	108	95	88	80	80	76	61	51
WC6BS-48/25/12	18.5	25	12	80/100		161	154	144	130	114	106	98	98	92.5	74	62
WC6BS-48/30/14	22	30	14	80/100		188	179	168	153	135	130	115	115	109	89	72
WC6BS-48/35/16	26	35	16	80/100		216	207	193	175	154	144	131	131	125	100	84
WC6BS-48/40/18	30	40	18	80/100		243	233	217	197	174	161	149	149	141	116	95
WC6BS-48/50/20	37	50	20	80/100		268	256	240	217	191	179	163	163	154	125	103
WC6BS-48/50/22	37	50	22	80/100		297	285	266	243	214	200	182	182	174	140	117
WC6BS-48/50/24	37	50	24	80/100	323	310	289	263	231	216	199	199	188	152	124	

Note : Aluminum Rotor are also available in selective models. STEELIX 6 models will be supplied against order only.





# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 150mm STAINLESS STEEL BOREWELL SUBMERSIBLE PUMPSET - STEELIX 6 Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE									
					m <sup>3</sup> /hr	0	15	20	30	40	50	60	70	80
					lps	0	4.16	5.55	8.33	11.11	13.88	16.66	19.44	22.22
WC6BS-60/7.5/03	5.5	7.5	3	80/100	Head in Metres	39	38	37	35	32	27	22	15	9
WC6BS-60/10/04	7.5	10	4	80/100		52	51	50	47	42	37	31	22	13
WC6BS-60/12.5/05	9.3	12.5	5	80/100		67	64	63	59	53	45	37	28	16
WC6BS-60/15/06	11	15	6	80/100		82	78	76	71	63	56	47	35	21
WC6BS-60/17.5/07	13	17.5	7	80/100		94	91	89	83	73	66	55	41	24
WC6BS-60/20/08	15	20	8	80/100		110	104	102	97	87	76	65	48	30
WC6BS-60/25/10	18.5	25	10	80/100		138	133	128	118	105	92	76	57	35
WC6BS-60/30/12	22	30	12	80/100		167	156	152	141	124	109	92	69	43
WC6BS-60/35/13	26	35	13	80/100		180	170	165	153	137	120	100	75	45
WC6BS-60/35/15	26	35	15	80/100		212	198	194	177	157	137	117	85	52
WC6BS-60/40/17	30	40	17	80/100		242	227	222	205	183	160	138	107	63
WC6BS-60/50/19	37	50	19	80/100		270	254	248	231	206	181	152	116	74
WC6BS-60/50/21	37	50	21	80/100	282	276	267	259	216	189	162	126	80	

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE										
					m <sup>3</sup> /hr	0	40	55	65	70	75	80	85	90	95
					lps	0	11.1	15.3	18.1	19.4	20.8	22.2	23.6	25.0	26.4
WC6BS-76/7.5/02	5.5	7.5	2	80/100	Head in Metres	34	23	21	20	18	16	15	13	11	8
WC6BS-76/10/03	7.5	10	3	80/100		51	35	32	30	28	25	22	20	16	13
WC6BS-76/15/04	11	15	4	80/100		67	47	43	39	37	33	29	26	21	17
WC6BS-76/17.5/05	13	17.5	5	80/100		84	58	53	49	46	41	37	33	27	21
WC6BS-76/20/06	15	20	6	80/100		101	70	64	59	55	49	44	39	32	25
WC6BS-76/25/08	18.5	25	8	80/100		135	93	85	79	73	65	59	52	43	33
WC6BS-76/30/09	22	30	9	80/100		152	105	96	89	83	74	66	59	48	38
WC6BS-76/40/11	30	40	11	80/100		185	128	117	108	101	90	81	72	59	46
WC6BS-76/50/13	37	50	13	80/100		219	152	139	128	119	106	95	85	69	54
WC6BS-76/50/15	37	50	15	80/100		253	175	160	148	138	123	110	98	80	63

Note : Aluminum Rotor are also available in selective models. STEELIX 6 models will be supplied against order only.

# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## 150mm STAINLESS STEEL BOREWELL SUBMERSIBLE PUMPSET - STEELIX 6 Series

														MIXED FLOW	
Model	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	75	85	90	95	100	105	110	115	120
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
						0	20.8	23.6	25.0	26.4	27.8	29.2	30.6	31.9	33.2
WC6BS-92/10/02	7.5	10	2	80/100	Head in Metres	29	21	20	19	18	16	14	12	11	8
WC6BS-92/15/03	11	15	3	80/100		44	31	30	29	27	24	21	19	16	13
WC6BS-92/20/04	15	20	4	80/100		58	41	39	38	36	32	28	25	21	17
WC6BS-92/25/05	18.5	25	5	80/100		73	52	49	48	45	40	35	31	27	21
WC6BS-92/30/06	22	30	6	80/100		87	62	59	57	54	48	42	38	32	25
WC6BS-92/35/07	26	35	7	80/100		102	72	69	67	63	56	49	43	37	29
WC6BS-92/40/08	30	40	8	80/100		116	83	79	76	72	64	56	49	43	33
WC6BS-92/50/10	37	50	10	80/100		145	103	98	95	90	80	70	62	53	42

### MATERIAL OF CONSTRUCTION - MOTOR

Part Name	Material
Upper & Lower Housing	Cast Iron
Stator Shell	SS 304
Rotor Shaft	SS 410
Journal Bushes	LTB - 4 & Carbon
Thrust Assembly	SS 420 and Graphite Carbon
Diaphragm	High Nitrile Butyl Rubber

### MATERIAL OF CONSTRUCTION - PUMP

Part Name	Material
Check Valve & Suction Housing	SS 304
Pump Shaft	SS 304
Impeller	SS 304
Stage Casing	SS 304
Bracket	SS 304
Inlet Screen	SS 304

Note : Aluminum Rotor are also available in selective models. STEELIX 6 models will be supplied against order only.





## Openwell Submersible Pumpset - RYKER, CV, CVH & CSM Series

CRI Openwell Submersible Pumpset are ideally suitable for openwells or tanks where a wide fluctuation of water level occur. This works under water and rest at the bottom of the well. Prime mover is rewindable, water – cooled motor. Specially designed water lubricated bearings are used to withstand the axial thrust loads with minimum wear and tear. Motor sealing is made by polymers, 'O' rings, oil seals and sand guard to avoid ingress of well water/salt into the motor. Pressure equalizing rubber diaphragm is provided to guard the motor from pressure and volume variation of water as detailed in our operator's manual. Three phase motor requires an adequate motor protection control panel.



CSM Series



### SALIENT FEATURES

- Specially designed double side carbon pads for higher wear resistance
- No suction and priming problem
- Extremely tough and hard wearing lubricated journal bearings are used
- Dynamically balanced rotating parts ensures minimum vibration and longer life
- Motor designed with higher cooling effect ensures longer life
- Motor body available in SS 304 & Cast Iron
- Designed for wide voltage fluctuations
- High operating efficiency
- No need of pump house.

CV / CVH Series



### APPLICATION

- Agriculture
- Domestic
- Irrigation
- Gardens
- Industrial
- Rural Water Supply

### SPECIFICATIONS

#### RYKER, CSM, CV & CVH Series

Power range	2.2 kW - 37 kW (3HP - 50HP)
Speed	2850 RPM
Version	Single phase - 200-240V; Three phase - 380 - 415V, 50Hz AC Supply
Maximum total head	341 Metre
Maximum flow rate	54 LPS (194 m <sup>3</sup> /hr)
Type of duty	S1 (Continuous)
Method of starting	Direct On line (D.O.L), Star Delta(SD)
Maximum starts per hour	10 times
Nominal outlet size	50, 65, 80,100 & 125 mm



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## HORIZONTAL OPENWELL SUBMERSIBLE PUMPSET - RYKER Series

Model	Body	kW	HP	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE																Star Rating		
						0	7.2	10.8	14.4	18	21.6	25.2	28.8	32.4	36	39.6	43.2	46.8	50.4	54	57.6		61.2	
						0	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
RYKER-350*	CI	2.2	3	50	Head in Metres	27			26		25	24	23	21	20	18	17	14					5 Star	
RYKER-365N1	CI	2.2	3	65		23					21			20		19	18	17		16	15	14	13	
RYKER-550*	CI	3.7	5	50		38				36	35	33	31	28	25	21								4 Star
RYKER-550N	CI	3.7	5	50		41								40	39	38	36	35	34	32	30	28	26	
RYKER-565*	CI	3.7	5	65		28								26	25	24	23	22	20	19	17	16	14	4 Star
RYKER-551*	CI	3.7	5	50		43			41	40	39	37	34	27										4 Star
RYKER-556	CI	3.7	5	50		43			41	40	39	37	34	27										
RYKER-575	CI	3.7	5	75		28				25.8	24.5	23.2	21.7	19.8	18	16	13.1	10						
RYKER-750*	CI	5.5	7.5	50		42								41	40	38	37	35	34	32	31	29	27	4 Star
RYKER-751	CI	5.5	7.5	50		55			54	53	52	50	48	46	43	41	39	36	33	28	21			
RYKER-951	CI	7.5	10	50		62					57	56	54	52	50	47	44	41	38	34	29			
RYKER-1050	CI	7.5	10	50		54	53			52				50		49	48	47	46	45	44	41	34	
RYKER-1051	CI	7.5	10	50		63	60	58	57	56	54	53	51	50	45	42	40	36	28					
RYKER-1250	CI	9.3	12	50		55					54			53	52		51	50	49	48	46	44		

Model	Body	kW	HP	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE																Star Rating						
						0	29	40	43	47	50	54	58	61	65	68	72	76	79	83	86		90	94	97	101	104	
						0	8	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
RYKER-765*	CI	5.5	7.5	65	Head in Metres	35	34	33	32	31.5	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	15	4 Star	
RYKER-1065	CI	7.5	10	65		42	41		38		36	34	33	32	31	30	29	28	27	25	24	22	20	18	15			
RYKER-1550	CI	11	15	50		54		53		52		51	50	49	48	47	45	37										
RYKER-2050	CI	15	20	50		63	62		61		61		60	59	58	56	55	52	40									

Model	Body	kW	HP	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE																Star Rating	
						0	32	36	40	43	47	50	54	58	61	65	68	72	76	79	83		
						0	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
RYKER-750N	CI	5.5	7.5	50	Head in Metres	46	45	44.5	44	43.5	43	42.5	41.5	41	40	38	37	36	34	32	31		
RYKER-950*	CI	7.5	10	50		47	46		45		44	43		42	41	39	38	37	35	33	32	4 Star	

Model	Body	kW	HP	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE																Star Rating							
						0	29	43	50	58	61	65	72	76	79	83	86	90	94	97	101		104	108	115	122	130	137	
						0	8	12	14	16	17	18	20	21	22	23	24	25	26	27	28	29	30	32	34	36	38		
RYKER-1080	CI	7.5	10	75	Head in Metres	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	18	15	12	9		

\* Marked pumpsets are having ISI licence.



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## HORIZONTAL OPENWELL SUBMERSIBLE PUMPSET - CSM Series

Model	Body	kW	HP	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE																	Star Rating
						0	7.2	10.8	14.4	18	21.6	25.2	28.8	32.4	36	39.6	43.2	46.8	50.4	54	57.6	61.2	
						0	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
3CSM-1*	MS	2.2	3	50	Head in Metres	24.5	24	23.5	23	22.5	22	21	20	19	18	16							3 Star
CSM-1-N	CI	2.2	3	50		24.5	24	23.5	23	22.5	22	21	20	19	18	16							
CSM-1 LV 30	SS	2.5	3	50		24			22	21	20	19	18.5	17	15	13.5							
3CSM-1S2*	CI/SS	2.2	3	50		24				23	22	21	20	19	17	11							4 Star
3CSM-21*	SS	2.2	3	50		35	33	31	27	22	17	10											
CSM-45*	SS	2.2	3	50		29	28	27	26.5	26	25	24	22	10									4 Star
CSM-2 LV 30	CI	3.7	5	50		29					27	26.5	26	25	24	22	21	20	19	17	15.5		
5CSM-2*	SS/CI	3.7	5	50		31.5	31	30.5	30.2	30	29.5	29.5	29	28	27	26	25	23	22				4 Star
CSM-3	SS/CI	3.7	5	50		42	41	40	38	37	34	31	28	25	21	14							
CSM-3E	MS	3.7	5	50		40	38	37	36.5	36	34	33	31	26	13								
CSM-3H	SS	3.7	5	50		47.5	45	42	38	33	27	17											
CSM-3S#	SS/MS	3.7	5	50		40.5	39	38	37.5	37	36	35	33	30	11								
CSM-44*	SS/CI	3.7	5	50		44	43	42	41	39	38	37	35	30	11								4 Star
CSM-44 LV 30	CI	3.7	5	50		41	40	39.5	38	37.5	36.5	35	32.5	30	11								
CSM-46	SS/CI	5.5	7.5	50		56	55	54	53.5	53	51	49	47	45	43	39	36	32	27	22			
CSM-46 LV 30	SS/CI	5.5	7.5	50		50	49.5	49	48.5	47.5	46	44	42	40	37	34	30.5	27	21.5				
CSM-12	CI	7.5	10	50		54	53	52.5		52	51.5	51	50.5	50	49	48	47	46	45	44	41	34	
CSM-36	CI	7.5	10	50		63	60	58	57	56	54	53	51	50	45	42	40	36	28				

# - Single phase also available

Model	Body	kW	HP	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE																			
						0	18	21.6	25.2	28.8	32.4	36	39.6	43.2	46.8	50.4	54	57.6	61.2	64.8	68.4	72	75.6	79.2	82.8
						0	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
CSM-22	CI	9.3	12.5	50	Head in Metres	59				58		57	56.5	56	55.5	55	54	53	52	51	50	48	45	42	35
12.5CSM-37	CI	9.3	12.5	50		74	69	68	67	66	64	62	60	55	43	25									
CSM-28	CI	11	15	50		64.5				64		63.5	63	62	61	60.5	60	59	58.5	58	57	55	53	50	38
CSM-38	CI	15	20	50		80	79	78	77	76	74	73	73	72	71	70	68	66	62	60	52	42			

\* Marked pumpsets are having ISI licence.



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## HORIZONTAL OPENWELL SUBMERSIBLE PUMPSET - CSM Series

Model	Body	kW	HP	Outlet Size in mm	m <sup>3</sup> /hr	0	25.2	28.8	32.4	36	39.6	43.2	46.8	50.4	54	57.6	61.2	64.8	68.4	72	75.6	79.2	82.8	Star Rating
						0	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
CSM19-N*	CI	2.2	3	65	Head in Metres	18.5	18	17.5	17	16	15	14	13	12	10	9	7							4 Star
5CSM-4*	SS/CI	3.7	5	65	Head in Metres	27				26.5	26	25	24	23	22	21	19	18	16	14	12			4 Star

Model	Body	kW	HP	Outlet Size in mm	m <sup>3</sup> /hr	0	29	43	50	58	61	65	68	72	76	79	83	86	90	94	97	101	104	108	115	122	130	137
						0	8	12	14	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	32	34	36	38
CSM-5*	CI	3.7	5	80	Head in Metres	22	20	18.5	17.5	16.5	16	15.5	15	14.5	14	13	12	11.5	10.5									
CSM-10-N	CI	5.5	7.5	80		30	29	27.5	26.5	25.5	25	24	23.5	23	22	21.5	21	20	19	18	17.5	16	15	14				
CSM - 47	CI	5.5	7.5	65		35	33		30	29	28	27	26	25	24	23	22	20	19	18	16	14						
10CSM-13*	CI	7.5	10	65		42	41.5	38	36	34.5	33.5	32.5	31.5	30	29	28	27	25.5	24	22	20	18	15.5					
10CSM-14*	CI	7.5	10	80		37.5	36	35	34	33	32	31	30.5	30	29	28	27	26	25	24	23	22	21	20	18	15	12	9
15CSM-29*	CI	11	15	65		55	53	50	49	48	47	46	45	44	43	42	41	40	39	35.5	30.5	25						
20CSM-39*	CI	15	20	65		63	62.5	61.5	61	60.5	60	59.5	59	58.5	58	57	56	55	54	53	52	51	50	48	44	29		
CSM-40*	CI	15	20	80		47				46					45.5		45	44.8	44.5	44.2	44	43.5	43.2	43	42.5	41.5	40.5	39

Model	Body	kW	HP	Outlet Size in mm	m <sup>3</sup> /hr	0	58	72	79	83	86	90	94	97	101	104	108	115	122	130	137	144	151	158	173	187	194
						0	16	20	22	23	24	25	26	27	28	29	30	32	34	36	38	40	42	44	48	52	54
5CSM-6*	CI	3.7	5	100	Head in Metres	20	16	14	12.5	12	11	10.5	10	9	8	7	6	5									
CSM-11	CI	5.5	7.5	100		26	22	20	19	18	17.8	17.5	17	16.5	16	15	14	13	11	10	8						
CSM-41	CI	15	20	100		37	36	35.8	35.5	35.2	35	34.8	34.5	34.2	34	33.5	33	32.5	32	31.5	31	30	29.5	29	27	25	24

Model	Body	kW	HP	Outlet Size in mm	m <sup>3</sup> /hr	0	58	72	79	83	86	90	94	97	101	104	108	115	122	130	137	
						0	16	20	22	23	24	25	26	27	28	29	30	32	34	36	38	
CSM-6J	CI	3.7	5	100	Head in Metres	20	16	14	12.5	12	11	10.5	10	9	8	7	6	5				
CSM-11J	CI	5.5	7.5	100		24	20	18	17	16	16	15	15	14	14	13	12	11	9	8	6	
CSM-11RJ	CI	7.5	10	100		26	22	20	19	18	17.8	17.5	17	16.5	16	15	14	13	11	10	8	

Note : J - Jacket type (Submersible & Surface operation can be performed)

\* Marked pumpsets are having ISI licence.





# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## VERTICAL OPENWELL SUBMERSIBLE PUMPSET - RYKER Series

Model	Body	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	14.4	18	21.6	25.2	28.8	32.4	36	39.6	43.2	46.8	50.4	54
						DISCHARGE	0	4	5	6	7	8	9	10	11	12	13	14	15
RYKER V-365	CI	2.2	3	2	65	Head in Metres	41	40	39	38	36	33	29	26	22	18	13	7	
RYKER V-565	CI	3.7	5	2	65		49	47	45	44	43	41	38	35	32	29	25	21	13
RYKER V-566	CI	3.7	5	3	65		62	54	51	47	43	37	31	24	17				
RYKER V-765	CI	5.5	7.5	2	65		52	50	48	46	44	43	41	40	37	34	29	20	
RYKER V-766	CI	5.5	7.5	3	65		62	60	59	57	55	50	45	39	33	26	18		

## VERTICAL OPENWELL SUBMERSIBLE PUMPSET - CV Series

Model	Body	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	14.4	18	21.6	25.2	28.8	32.4	36	39.6	43.2	46.8	50.4	54	57.6	Star Rating
						DISCHARGE	0	4	5	6	7	8	9	10	11	12	13	14	15	16	
CV- 0 HD	CI	2.2	3	2	65	Head in Metres	40.5	39.5	39	37.5	35.5	33	29	25.5	21.5	17.5	13	6.5			
CV-1*	CI	3.7	5	2	65		44	43	42	40	38	36	33	29	25	20	15	10			
CV-1HD	CI	3.7	5	2	65		49	46.5	45	44	43	41	38	35	32	28.5	25	20.5	13		
CV - 13	CI	3.7	5	3	65		62	54	51	47	43	37	31	24	17						
CV- 3*	CI	5.5	7.5	2	65		52	50	48	46	44	43	41	40	37	34	29	20			
CV- 33*	CI	5.5	7.5	3	65		62	60	59	59	55	50	45	39	33	26	18				2 star
CV- 35*	CI	5.5	7.5	5	65		91	77	72	65	57	47	35	22							
CV- 44*	CI	7.5	10	4	65		93	90	88	86	82	77	71	63	54	45	33	22			
CV- 46*	CI	7.5	10	6	65		103	98	95	93	85	75	65	53	40	24					
CV- 54	CI	9.3	12.5	4	65		96	94	90	86	81	77	72	68	61	54	46	33	18		
CV- 56*	CI	9.3	12.5	6	65		126	122	118	112	106	98	88	77	65	49	32	10			2 star
CV-6	CI	9.3	12.5	6	65		91	86	84	82	80	77	72	68	66	64	60	52	38		
CV-65	CI	11	15	5	65		121	114	110	106	102	97	90	82	73	62	50	36			
CV-66*	CI	11	15	6	65		141	134	131	127	121	114	105	94	80	63	44	22			
CV-74	CI	15	20	4	65		116	110	108	105	102	98	94	90	85	80	73	65	52	20	
CV-76*	CI	15	20	6	65		153	134	132	129	126	122	118	112	104	94	82	66	48	25	
CV-35/8	CI	26	35	8	80		206	197	193	187	180	172	164	154	143	130	114	89	64	40	
CV-40/13	CI	30	40	13	80	275	252	246	240	229	216	199	180	155	126	95	58				

\* Marked pumpsets are having ISI licence.



# PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,  
Three Phase 380-415V, 50Hz, A.C. Supply.

## VERTICAL OPENWELL SUBMERSIBLE PUMPSET - CV Series

Model	Body	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	36	43.2	50.4	57.6	64.8	72	79.2	86.4	93.6	100.8	108	115.2	122.4	
							DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
						lps	0	10	12	14	16	18	20	22	24	26	28	30	32	34	
CV-25/4	CI	18.5	25	4	100	Head in Metres	97	84	82	80	78	76	74	70	65	59	52	43	34	23	
CV-30/4	CI	22	30	4	100		99	93	90	87	84	81	77	74	70	66	60	54	45	34	
CV-40/7	CI	30	40	7	100		152	128	125	121	117	113	107	101	94	85	74	62	46	29	

Model	Body	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	75.6	100.8	108	115.2	122.4	129.6	136.8	144	151.2	158.4	165.6	172.8	180	187.2	194.4
							DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
						lps	0	21	28	30	32	34	36	38	40	42	44	46	48	50	52	54
CV-30/2	CI	22	30	2	100	Head in Metres	59	50	45	43	42	41	40	39	37	36	35	33	32	30	28	26
CV-35/3	CI	26	35	3	100		82	65	59	58	56	54	52	51	49	46	44	41	38	35	32	27
CV-50/3	CI	37	50	3	150		100	85	79	78	76	75	74	72	71	70	69	67	64	60	57	51

Model	Body	kW	HP	Stage	Outlet Size in mm	m <sup>3</sup> /hr	0	1.8	3.6	5.4	7.2	9	10.8	12.6	14.4	16.2	18	19.8	21.6	
							DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
						lps	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	
CVH-4/5	CI	3	4	5	80	Head in Metres	96	94	92	86	78	68	54	39	22					
CVH-5/4	CI	3.7	5	4	50		74	73	72	71	70	69	66	61	54	46	37	26	16	
CVH-5/6	CI	3.7	5	6	50		123	120	118	114	105	92	75	57	34	8				
CVH-6/5	SS/CI	4.5	6	5	50		93	90	88	86	84	82	80	78	70	61	50	38	25	
CVH-6/7	CI	4.5	6	7	50		136	130	128	125	114	104	84	67	43	12				
CVH-7.5/6	CI	5.5	7.5	6	50		112	110	108	106	105	104	99	90	79	66	53	38	22	
CVH-7.5/9N	SS	5.5	7.5	9	50		178	174	170	165	153	136	113	84	48	13				
CVH-10/11	CI	7.5	10	11	50		225	220	215	210	204	181	153	116	73	28				
CVH-15/16N	CI	11	15	16	50		341	330	320	310	298	270	233	189	133	80				





# MATERIAL OF CONSTRUCTION

## OPENWELL SUBMERSIBLE PUMPSET

PUMPSET	
Part Name	Material
Rear cover / Bracket	Cast iron
Stator shell	Cast iron / SS 304
Shaft	SS 410 / EN - 8 with SS 304
Impeller	Cast iron / SS 410 / Bronze
Pump casing	Cast iron
Shaft seal	Nitrile butyl rubber
Thrust assembly	SS 420 with graphite carbon
Diaphragm	High nitrile butyl rubber
Journal bearings	LTB - 4 / LTB - 5 / Carbon



## Centrifugal Monoblock Pumpset - JUMBO Series

C.R.I. Jumbo Centrifugal Monoblock Pumpsets are powered by a totally enclosed fan cooled AC induction two pole and four pole motor, suitable for continuous duty. Motor stator is made of low watt loss silicon steel laminations assembled under pressure and rigidly locked in the frame. The windings are of high grade enameled copper wire offer excellent conductance. Construction of motor frame and usage of quality materials result in high performance and low temperature raise, thereby increasing the life cycle of the motor.



### SALIENT FEATURES

- Robust construction ensures longer life
- 3D Heat Transfer technology ensures low temperature rise
- CFD based pump design ensures best hydraulic efficiency
- Dynamically balanced rotating parts to ensure minimum vibration & longer life
- High operating efficiency resulting in lower power consumption
- Accurate alignment of bearing ensures minimum starting friction and reduced starting load
- Special grade grease increases the life of the bearing
- Specially designed for wide voltage operation
- Good suction lift characteristics
- Special voltage design also available



### APPLICATION

- Agriculture & Irrigation
- Farms
- Gardens
- Industrial & Mining
- Sprinkler & Drip irrigation

### SPECIFICATIONS

	JUMBO	CTG / CTT Model	CFG Model
Power range	2.2kW - 7.5kW (3HP - 10HP)	2.2kW - 15kW (3HP - 20HP)	2.2kW - 7.5kW (3HP - 10HP)
Speed	2880 RPM	2880 RPM	1440 RPM
Version	Three phase 380-415V; 50Hz, AC supply		
Maximum total head	57.5 Metre	94 Metre	19.5 Metre
Maximum flow rate	23 LPS (82.8m <sup>3</sup> /hr)	23 LPS (82.8m <sup>3</sup> /hr)	62 LPS (223.2m <sup>3</sup> /hr)
Class of insulation	B & F Class		
Type of duty	S1 ( Continuous )		
Maximum suction lift	7 Metre		
Nominal outlet size	50 x 40, 65 x 50, 75 x 65, 100 x 75 and 150 x 150 mm		





# PERFORMANCE CHART

2880 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## CENTRIFUGAL MONOBLOCK PUMPSET - JUMBO Series

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE																								
						0	18	19.8	21.6	23.4	25.2	27	28.8	30.6	32.4	34.2	36	37.8	39.6	41.4	43.2	45	46.8	48.6	50.4	52.2				
						lps	0	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5			
						Head in Metres	31.5	28	27	26	25	23	22	20	18.5	16														
							27										26	25	24	23.5	23	22.5	21.5	20.5	19	17	15			

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE																								
						0	34.2	36	37.8	39.6	39.6	43.2	43.2	46.8	43.2	50.4	43.2	54	55.8	57.6	59.4	61.2								
						lps	0	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17							
						Head in Metres	44	38	36.5	35	34	33	32	31	30	28	26													
							37					30	29.5	29	28	27.5	26	24.5	20	21	19.5	18								
							53			50	48	46	46.5	46	45	40	36													
							57.5				56	55	54.5	53	52	51	50	48	46	42	38									

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE																							
						0	36	40	43	47	50	54	57	61	65	68	72	76	79	83									
						lps	0	10	11	12	13	14	15	16	17	18	19	20	21	22	23								
						Head in Metres	18	16	15	14.5	14	13	12.5	12	11	8													
							29			26	25.5	25	24.5	24	23.5	23	22	21	20	19	14								
							40			38	37	36.5	35	34	32.5	28	20												

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE																							
						0	7.2	9.0	10.8	12.6	14.4	16.2	18.0	19.8	21.6	23.4	25.2	27.0	28.8	30.6	32.4	36							
						lps	0	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9	10						
						Head in Metres	30	29.5	29	29	28.5	28.5	28	28	27.5	27	26.5	26	22	14									
							49	48	47	45	42	40	37.5	35	33	29.5	25	18											
							44			43	42.5	42	41.5	41	40.5	40	39.5	39	38.5	38	35.5	31	13						
							69							65.5	65	64.5	64	63.5	63	62	58	40							



# PERFORMANCE CHART

2880 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## CENTRIFUGAL MONOBLOCK PUMPSET - JUMBO Series

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr lps	0	25.2	27.0	28.8	30.6	32.4	34.2	36.0	37.8	39.6	43.2	46.8	50.4	54.0	55.8	
						0	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	12.0	13.0	14.0	15.0	15.5	
CTG-36/3T	2.2	3	80	65	Head in Metres	19				18.5	18	17.5	17	16.5	16	15.5	14	13	11.5		
CTG-29/5D	3.7	5	65	50		40	37	36.5	35	34.5	33	32	31	29	28	24	19				
CTG-30/5D	3.7	5	65	50		45.5	44	43.5	43	42.5	42	41.5	41	40.5	40.5	37	35.6	34.2			
CTG-34/5D	3.7	5	65	50		31				30.5	30	29.5	29	28.5	28	27	25	24			
CTG-25/7.5D	5.5	7.5	65	50		55		53			52		50.5		49	47.5	46	45	43.5	42	
CTG-36/7.5D	5.5	7.5	65	50		54.5			53	52.5	52	51.6	51	50.5	50	48.5	46.5	45			
CTG-38/10D	7.5	10	65	50		56									53	52	51	50	49	48	
CTG-40/10D	7.5	10	65	50		62										59	58	57	56	54	53
CTG-43/10D	7.5	10	65	50		73							69	68	67	66	65	62	56		
CTG-48/12.5D	9.3	12.5	65	50		62.5					62	61.5	61	60.5	60	59	58	57	50	40	
CTG-36/15D-N	11	15	65	50		75				73.5	73	72.5	72	71	70.5	69	68	65	46		
CTG-39/20D	15	20	65	50		94	90	89	88	87	86	85	84	83	82	81	68	51			
CTG-39/20D-N	15	20	65	50		94	90	89	88	87	86	85	84	83	82	81	68	51			

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr lps	0	32.4	34.2	36.0	37.8	39.6	43.2	46.8	50.4	54.0	57.6	61.2	64.8	68.4	72.0	75.6	79.2	82.8	
						0	9.0	9.5	10.0	10.5	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.0	22.0	23.0	
CTG-61/12.5D-N	9.3	12.5	75	65	Head in Metres	53		52	51.5	51	50.5	50	49.5	49	48.5	48	47.5	47	45	44	42	25		
CTG-65/15D-N	11	15	75	65		55				53	52.5	52	51.5	51	50.5	50	49.5	49	48.5	48	47	45	15	
CTG-47/20D-N	15	20	75	65		74.5			74	73.5	73	72.5	72	71.5	71	70.5	70	69	56	27				
CTG-43/3D	2.2	3	75	65		23			22.5	22	21.5	21	20	19	17	16	15							
CTG-39/5D	3.7	5	75	65		27	26.5	26	26	25.5	25	24.5	24	23	22.5	21	20	18	16	13				
CTG-47/7.5D	5.5	7.5	75	65		35.5	35	34.5	34.2	34	33.5	33	32.5	32	31.5	30	28	27	24	21	18			
CTG-47/10D	7.5	10	75	65		45				44	43.5	43.5	43	42.5	42.5	42	41.5	41	40.5	40	38	37	35	
CTG-61/12.5D	9.3	12.5	75	65		53		52	51.5	51	50.5	50	49.5	49	48.5	48	47.5	47	45	44	42	25		
CTG-65/15D	11	15	75	65		55				53	52.5	52	51.5	51	50.5	50	49.5	49	48.5	48	47	45	15	
CTG-47/20D	15	20	75	65		74.5			74	73.5	73	72.5	72	71.5	71	70.5	70	69	56	27				



# PERFORMANCE CHART

2880 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## CENTRIFUGAL MONOBLOCK PUMPSET - JUMBO Series

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	0	46.8	50.4	54.0	57.6	61.2	64.8	68.4	72.0	75.6	79.2	82.8	86.4	90.0	93.6	97.2	100.8	104.4	118.8	
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
						lps	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0	33.0	
						Head in Metres	28	26	25.5	25	24.5	24	23.5	23	22.5	22	21.5	21	20	19	18	16	14		
CTG-65/7.5D	5.5	7.5	100	75																					
CTG-68/10D	7.5	10	100	75																					
CTG-86/12.5D-N	9.3	12.5	100	75																					

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	0	12.6	18.0	19.8	21.6	23.4	25.2	27.0	28.8	30.6	32.4	34.2	
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
						lps	3.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	
						Head in Metres	23	23	22	21.5	21	20.5	20	19.5	18	17	15.5	14
CTG-55/5-2#	3.7	5	75	65														

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	0	7.1	17.5	21.1	26.7	28.4	29.8	30.1	30.5	31.3	31.7	32	
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
						lps	2	4.9	5.9	7.4	7.9	8.3	8.4	8.5	8.7	8.8	8.9	
						Head in Metres	40	39	37	35	32	30	28	26	23	18	16	13
CTG-18/5-2#	3.7	5	65	50														

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	0	12.6	18.0	19.8	21.6	23.4	25.2	27.0	28.8	30.6	32.4	34.2	36.0	
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
						lps	3.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	
						Head in Metres	40	37	34.5	33.5	32	31	30	28	27	26	24	20	9
CTT-21/5N	3.7	5	65	50															

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	0	28.8	30.6	32.4	34.2	36.0	37.8	39.6	43.2	46.8	50.4	54.0	
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
						lps	8.0	8.5	9.0	9.5	10.0	10.5	11.0	12.0	13.0	14.0	15.0	
						Head in Metres	19		18.5	18	17.5	17	16.5	16	15.5	14	13	11.5
3EH2	2.2	3	75	65														
7.5HH3S	5.5	7.5	65	50														

# - Special Voltage Design Model.



# PERFORMANCE CHART

2880 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## CENTRIFUGAL MONOBLOCK PUMPSET - JUMBO Series

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	0	39.6	43.2	46.8	50.4	54.0	57.6	61.2	64.8	68.4
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					lps	0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
10H4*	7.5	10	75	65	Head in Metres	41	40.5	40	39	38.5	38	31	20	15	11

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	0	30.6	32.4	34.2	36	37.8	39.6	43.2	46.8	50.4	Star Rating
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	
					lps	0	8.5	9	9.5	10	10.5	11	12	13	14	
5H1*	3.7	5	65	50	Head in Metres	31	30.5	30	29.5	29	28.5	28	27	25	24	2 star

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	0	21.8	28.8	36.4	46.4	53.4	60.5	64.3	64.6	Star Rating
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	
					lps	0	6.1	8	10.1	12.9	14.8	16.8	17.9	18	
7.5H3-N1*	5.5	7.5	65	50	Head in Metres	48	46.6	43.9	39.3	34.5	29.5	24.5	19.5	14.5	2 star

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	0	10.8	18.9	24.7	31	35.7	40	43.2	46.3	48.9	Star Rating
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	
					lps	0	3	5.3	6.9	8.6	9.9	11.1	12	12.9	13.6	
5H1-N2*	3.7	5	100	75	Head in Metres	37	36.2	34.3	32.2	28.7	26	23.1	20.3	17.4	14.6	2 star

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	0	21.8	28.8	36.4	46.4	53.4	60.5	64.3	64.6	Star Rating
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	
					lps	0	6.1	8	10.1	12.9	14.8	16.8	17.9	18	
7.5H3-N2*	5.5	7.5	100	75	Head in Metres	38	36.8	36	34.9	33.4	31.4	28.4	23.7	20.3	2 star

\* Marked pumpsets are having ISI licence.



# PERFORMANCE CHART

1440 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

## CENTRIFUGAL MONOBLOCK PUMPSET - JUMBO Series

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE															
						0	48.6	52.2	55.8	59.4	63.0	66.6	70.2	73.8	77.4	81.0	84.6	88.2	102.6	109.8	
						lps	0	13.5	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5	28.5	30.5
						Head in Metres	12	11.5	11.3	11.2	11.1	11	10.9	10.7	10.5	10.3	10	9.8	9.5	8.5	
CFG-52/3D	2.2	3	100	100		12	11.5	11.3	11.2	11.1	11	10.9	10.7	10.5	10.3	10	9.8	9.5	8.5		
CFG-79/5D	3.7	5	100	100		15		14	13.8	13.5	13.3	13	12.7	12.4	12	11.8	11.5	11	9	8	

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE															
						0	34.2	37.8	41.4	43.2	45.0	48.5	52.2	55.8	59.2	63.0	66.6	70.2	73.8	77.4	
						lps	0	9.5	10.5	11.5	12.0	12.5	13.5	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5
						Head in Metres	14.5	14	13.8	13.5		13.2	13	12.8	12.5	12	11.5	11			
CFG-50/3D	2.2	3	75	65		14.5	14	13.8	13.5		13.2	13	12.8	12.5	12	11.5	11				
CFG-54/5D	3.7	5	75	65		19.5	19.2	19	18.5		18.3	18	17.5	17	16.5	16	15.5	15			
CFG-51/3D	2.2	3	100	80		14				13.5		13	12.5	12	11.5	11	10.5	10	9.5	9	

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE													
						0	68.4	79.2	86.4	93.6	108.0	111.6	115.2	122.4	126.0	129.6	136.8	140.4	
						lps	0	19	22	24	26	30	31	32	34	35	36	38	39
						Head in Metres	18	17.5	17	16.5	16	15	14.8	14.5	14	13.5	13	12.5	12
CFG-79/7.5D	5.5	7.5	100	100		18	17.5	17	16.5	16	15	14.8	14.5	14	13.5	13	12.5	12	

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE													
						0	72	100.8	108	115.2	122.4	129.6	136.8	144	158.4	165.6	172.8	176.4	
						lps	0	20	28	30	32	34	36	38	40	44	46	48	49
						Head in Metres	11.4	11.2	11.1	11	10.9	10.7	10.6	10.4	10.2	10	9.8	8	7
CFG-169/7.5D	5.5	7.5	150	150		11.4	11.2	11.1	11	10.9	10.7	10.6	10.4	10.2	10	9.8	8	7	

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m <sup>3</sup> /hr	DISCHARGE													
						0	72.0	100.8	115.2	129.6	144.0	158.4	172.8	187.2	201.6	208.8	216.0	223.2	
						lps	0	20	28	32	36	40	44	48	52	56	58	60	62
						Head in Metres	14.8	14.6	14.4	14.2	14	13.8	13.6	13.5	12.6	12.2	12	11.6	11.2
CFG-172/10D	7.5	10	150	150		14.8	14.6	14.4	14.2	14	13.8	13.6	13.5	12.6	12.2	12	11.6	11.2	

# MATERIAL OF CONSTRUCTION

## CENTRIFUGAL MONOBLOCK PUMPSET - JUMBO Series

PUMPSET	
Part Name	Material
Motor frame	Cast Iron
Front / Back cover	Cast Iron
Rotor shaft	Mild Steel with SS 410 sleeve
Pump Casing	Cast Iron
Impeller	Cast Iron / Leaded Bronze
Sealing	Graphite coated asbestos



# AGRICULTURAL ACCESSORIES

## CI VALVES

### FOOT VALVES



### CHECK VALVES



### NON RETURN VALVES



### AIR VALVES



#### Available Size

Foot Valves	40 - 150mm
Check Valves	40x40 - 150x150mm
Non Return Valves	50 - 150mm
Air Valves	12 - 50mm



## AIR BREAK MOTOR STARTER



Relay Range	: 1.5 Amps to 42 Amps
Rated Operational Voltage	: 200-440V, 50Hz 3 phase
Contactors	: 4 pole
Wide band of Operating Voltage	: 70% to 110% of rated coil voltage

## AGRICULTURAL PIPES



#### Available Size

uPVC Column	33 - 168mm
RPVC	20 - 400mm
HDPE	20 - 630mm
Casing & Screen	40 - 300mm
Grey & SDR Casing	110 - 250mm

## FLAT CABLES



#### Available Size

1.0 mm<sup>2</sup> to 50 mm<sup>2</sup>





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